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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT  
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

REPORT No. 112

# Magnetic Mean Hourly Values from Watheroo Observatory, Western Australia 1953-1954

BY

P. M. McGREGOR



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*Issued under the Authority of the Hon. David Fairbairn  
Minister for National Development*

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DEPARTMENT OF NATIONAL DEVELOPMENT

MINISTER: THE HON. DAVID FAIRBAIRN, D.F.C., M.P.

SECRETARY: R. W. BOSWELL

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIRECTOR: J. M. RAYNER

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## Tables of hourly values, Fourier coefficients etc.

| <u>1953</u>  |              | <u>1954</u>  |              |
|--------------|--------------|--------------|--------------|
| <u>Month</u> | <u>Pages</u> | <u>Month</u> | <u>Pages</u> |
| January      | 14-17        | January      | 62- 65       |
| February     | 18-21        | February     | 66- 69       |
| March        | 22-25        | March        | 70- 73       |
| April        | 26-29        | April        | 74- 77       |
| May          | 30-33        | May          | 78- 81       |
| June         | 34-37        | June         | 82- 85       |
| July         | 38-41        | July         | 86- 89       |
| August       | 42-45        | August       | 90- 93       |
| September    | 46-49        | September    | 94- 97       |
| October      | 50-53        | October      | 98-101       |
| November     | 54-57        | November     | 102-105      |
| December     | 58-61        | December     | 106-109      |

### SUMMARY

This Report presents tabulated hourly and monthly mean values of the magnetic elements, and daily Fourier coefficients, derived from normal magnetograms produced at Watheroo Observatory in 1953 and 1954. It also includes a list of annual mean values 1919-1954.

## 1. INTRODUCTION

The Department of Terrestrial Magnetism, Carnegie Institution of Washington (CIW) established the Watheroo Magnetic Observatory in 1919, and transferred it to the Commonwealth of Australia on 1st July 1947. From that date it was operated by the Bureau of Mineral Resources, Geology & Geophysics (BMR) of the Department of National Development. In March 1959 it was replaced by the Mundaring Geophysical Observatory.

This Report gives magnetic mean hourly values and daily Fourier coefficients for 1953 and 1954. It is the third in a series covering the period when the observatory was controlled by the BMR. The first (McGregor, 1966a) gives references to CIW publications which contain detailed descriptions of the observatory, the instruments, methods used, and results obtained from 1919 through 1947.

Observatory co-ordinates are given in Table 1. Staff during 1953 and 1954 are shown in Table 2; additional staff, for periods up to several months, included university vacation students and geophysicists training for Antarctic service.

## 2. ABSOLUTE INSTRUMENTS

### Instruments

Table 3 lists the various instruments used for measuring horizontal intensity (H) and declination (D). Inclination (I) was measured, as previously, with CIW earth inductor No. 2.

The Askania-pattern magnetometer differs in several respects from the CIW type. The main differences in design are the use of damping in the D magnet system, provision of only two deflection distances (27 cm and 37 cm), and the use of an auto-collimating optical system. Appropriate changes in observing and computing techniques were introduced, with the magnetometer, in September 1953. Constants of the instrument were determined at Toolangi and assembled under the date June 1953; they have been used throughout in computing values of H.

### Standardisation and corrections

Declination. No D comparisons were made in 1953-1954. The correction used

for magnetometer No. 508810 was adjusted to give continuity of baseline values at the time it replaced magnetometer No. 7. Corrections applied were:

|                    |               |
|--------------------|---------------|
| CIW No. 2          | - 0.2 minutes |
| Askania No. 508810 | + 0.5 minutes |

Horizontal intensity. No direct comparisons were made with instruments from other observatories. A correction formula for CIW No. 7 has subsequently been derived, using all comparisons up to 1956. It is:

H correction =  $-160 + 3(1950 - t)$  gammas per gauss, where t is the year AD and it reduces observed values to the Rude Skov (and Fredericksburg) standard.

Corrections given below for the QHMs and Askania 508810 have been adjusted to preserve continuity of baseline values during 1953; the correction adopted for the Askania has been confirmed by later comparisons.

| <u>Interval</u>        | <u>Instrument</u> | <u>Correction, gammas</u> |
|------------------------|-------------------|---------------------------|
| Jan. 1953 to Feb. 1953 | QHM 187           | -14                       |
|                        | QHM 188           | - 3                       |
|                        | QHM 189           | -10                       |
| July 1953 to Oct. 1953 | QHM 187           | -21                       |
|                        | QHM 188           | -17                       |
|                        | QHM 189           | -12                       |
| Sept 1953 to Dec. 1954 | Askania 508810    | + 5                       |

Inclination. No inductor comparisons were made. Computed values of Z have been corrected by +28 gammas in order to preserve continuity of the baseline value at 1956.0 (see McGregor, 1966b).

### 3. VARIATION INSTRUMENTS

#### Magnetographs

The Eschenhagen normal-run (20 mm/hour) and La Cour rapid-run (180 mm/hour) magnetographs were maintained in continuous operation. Data from only the normal magnetograph have been used in the derivation of the results, and all discussion refers to this instrument.

In 1953 the Z variometer became unreliable after adjustments, on two occasions. Between 16th and 20th January, and between 22nd February and 1st March, its performance was too poor to allow values to be derived.

#### Time control

Time marks were applied as in earlier years. They consist of vertical lines every ten minutes, with a darker line at the hour. The pendulum clock correction was kept within five seconds. Parallax corrections to the time lines were determined at the beginning of each month, after routine replacement of the recorder lamp.

#### Temperature control

The H and Z thermometers were read daily at 00 and 12 hours GMT; temperatures at other times were interpolated between these readings. The thermograph recordings were unreliable and were not used. Table 4 summarises the magnetograph temperature data; the daily change within the magnetograph room rarely exceeded  $0.2^{\circ}\text{C}$ .

#### Orientation

No determination of the orientations of the variometer magnets was made during 1953-1954. From determinations made in 1951 and 1958, the ex-orientation angles were probably:

|   |                                       |
|---|---------------------------------------|
| D | $0.0^{\circ}$                         |
| H | $1.0^{\circ}$ at $20^{\circ}\text{C}$ |
| Z | less than $1^{\circ}$                 |

At temperatures below  $20^{\circ}\text{C}$  the H ex-orientation angle increased, and could have reached  $2^{\circ}$  at the lowest room temperature. No adjustments were made to the torsion head to reduce the angle. Because of the frequent adjustments to the Z variometer it is unlikely that its magnet was ever more than  $1^{\circ}$  from the horizontal.

### 4. SCALE VALUES

#### Declination

A torsion determination in January 1953 gave the value 1.031 minutes per mm. It is shown in Figure 1 together with the adopted value of 1.03 ' / mm, which is the mean of all determinations from 1948 to 1958; it is accurate to 0.5 percent.

### Horizontal intensity

The variometer has a non-linear response. The scale value  $S_H$  is defined as the rate of change of H with ordinate; its value at ordinate h is related to its value  $S_0$  at the baseline by the equation:

$$S_H = S_0 + ah \quad \text{where } a \text{ is the ordinate factor.}$$

Monthly determinations of  $S_H$  were made using the magnet deflection method. The value of a was 0.005 gammas per mm<sup>2</sup>. Figures 1 and 2 show the observed and adopted values of  $S_0$ . The standard error of the mean of  $S_0$  was 0.005 gammas per mm.

### Vertical intensity

Scale values were determined daily by the electrical method. Figures 1 and 2 summarise the results and show the adopted values and causes of abrupt changes. In these figures the observed values are the means of about a week's observations. During periods of drift, adoptions were generally made in steps not greater than one percent of the value; this is about the accuracy of measurement.

During the intervals 16th to 20th January and 22nd February to 1st March 1953, the variometer operated too erratically to provide data; observations made in those intervals are not given here.

## 5. TEMPERATURE COEFFICIENTS

The H temperature coefficient was determined by analysis of the baseline values. Adopted values were 13.5 gammas per °C (1953) and 13.0 gammas per °C (1954).

It was impracticable to determine the Z temperature coefficient in this way; the previously determined value of 13.5 gammas per °C was used.

## 6. BASELINE VALUES

Baseline values were determined by standard methods. All ordinates were corrected for shrinkage and to 20°C (H and Z), and were converted using the adopted scale values. Values were chosen by inspection of graphs similar to those of Figures 1 and 2, which show the results and also show the causes of abrupt changes.

Adopted values are, effectively, running means whose standard errors are about

1 gamma for H and 0.1 minutes for D. Adopted values of Z are less reliable and probably in error by 7 gammas during the first half of 1953 and 5 gammas for the remainder of the two-year period. During periods of drift, values have been adjusted in steps not exceeding these errors; Z values immediately after abrupt changes were controlled by making preliminary computations of surrounding mean hourly values.

## 7. HOURLY VALUES

The mean hourly values, together with Fourier coefficients (see Chapter 9), are tabulated in monthly groups on the pages following Table 6. Hourly values are means for successive hourly intervals commencing at 00 hours GMT (08 hours 120°E Meridian Time). Ordinates were measured and checked and temperature corrections were derived at the observatory. Scale values and associated means were evaluated by digital computer (Cook, in preparation) by the BMR headquarters observatory group. No allowance has been made for spurious effects due to mis-orientation of the variometer magnets. In the worst case (H) these amount to less than 1 gamma for normal diurnal variation ranges.

Because of uncertainties in adopted baseline values, scale values, and temperature corrections, the accuracies of reduced values relative to the local standards given in Chapter 2 are considered to be 0.2 minutes for D, 3 gammas for H, and 7 to 10 gammas for Z.

Westerly declination and upward vertical intensity are tabulated without sign. D is westerly (negative) and Z upward (negative) at Watheroo.

## 8. MONTHLY AND ANNUAL MEANS

Table 5 shows the monthly mean values for 1953 and 1954. Table 6 shows the annual mean values 1919 to 1954 adjusted to BMR standard (McGregor, 1966a).

## 9. FOURIER COEFFICIENTS

The fourth tabulation of each monthly group on the pages following Table 6 gives the first four Fourier coefficients for every day for each element, and the coefficients for the means of all days and the five international quiet days. These were derived by digital computer as part of the reductions programme.



The daily variation of each element H, D, Z, as represented by the set of 24 hourly mean values, has been fitted to a finite Fourier series:

$$a_0 + a_1 \cos t + b_1 \sin t + \dots + a_4 \cos 4t + b_4 \sin 4t$$

where  $t = 0$  to  $2\pi$  radians, corresponding to Greenwich Mean Time from 00 to 24 hours, and the  $a_i, b_i$  ( $i = 1, 4$ ) are the Fourier coefficients. (A folding method was used, and the coefficients were subsequently corrected for a time origin of 00 hours GMT). Corrections were applied for the smoothing that results from the use of hourly mean values. Corrections for non-cyclic variations were not applied (see Chapman & Bartels, 1940).

#### 10. QUIET DAY DIURNAL VARIATION

The mean diurnal variation for the international quiet days for the following groups of months is plotted for each year in Figures 3 to 5:

|                                       |                   |
|---------------------------------------|-------------------|
| January, February, November, December | (southern summer) |
| March, April, September, October      | (equinox)         |
| May, June, July, August               | (southern winter) |

No attempt has been made to eliminate difference in level between 24 hours and 00 hours but the slopes have been made continuous.

#### 11. MAGNETIC ACTIVITY

Character figures C for each day are given in the hourly mean values tables. They may differ from values published in IUGG Bulletins (Series 12), because many have been re-assigned by the author. K-indices, sudden commencements, and solar flare effects have been published by Bartels and Veldkamp (1954; 1955). Tabular descriptions of magnetic storms have been given in the Journal of Geophysical Research, Volumes 58, 59, and 60.

#### 12. MAGNETOGRAMS

Magnetograms are not reproduced here. They are held at the Mundaring Geophysical Observatory, Mundaring, Western Australia. Copies may be obtained on request from the Observer-in-Charge.

### 13. REFERENCES

- BARTELS, J. and VELDKAMP, J. 1954 Geomagnetic indices K and C, 1953. Int. Un. Geod. Geophys., IATME Bull. No. 12h.
- BARTELS, J. and VELDKAMP, J. 1955 Geomagnetic Indices K and C, 1954. Int. Un. Geod. Geophys., IAGA Bull. No. 12i.
- CHAPMAN, S. and BARTELS, J. 1940 GEOMAGNETISM, Vol. 2, Chapter 16. Oxford, Clarendon Press.
- McGREGOR, P.M. 1966a Magnetic mean hourly values from Watheroo Observatory, Western Australia, 1948-1949-1950. Bur. Min. Resour. Aust. Rep. 110.
- 1966b Magnetic mean hourly values from Watheroo Observatory, Western Australia, 1951-1952. Bur. Min. Resour. Aust. Rep. 111.

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TABLE 1  
OBSERVATORY CO-ORDINATES

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|                                    |                      |             |             |        |
|------------------------------------|----------------------|-------------|-------------|--------|
| <u>Latitude</u>                    | geographic           | 30° 19.1'S  | geomagnetic | -41.3° |
| <u>Longitude</u>                   | geographic           | 115° 52.6'E | geomagnetic | 185.6° |
| <u>Height above Mean Sea Level</u> | 788 feet; 240 metres |             |             |        |

(re-determined 1950)

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TABLE 2  
STAFF DURING 1953 AND 1954

|                              |                 | <u>From</u>    | <u>To</u>      |
|------------------------------|-----------------|----------------|----------------|
| <u>Observers-in-Charge</u>   | J.E. Webb       | 1st Jan. 1953  | 5th May 1954   |
|                              | L.S. Prior      |                | 3rd June 1954  |
|                              | P.M. McGregor   |                | 27th Sept 1954 |
|                              | A.F.T. Tillott  |                | 31st Dec. 1954 |
| <u>Observers</u>             | G.F. Clarke     | 1st Jan. 1953  | 30th Apr. 1954 |
|                              | B.G. Cook       | 9th Apr. 1953  | 31st Dec. 1954 |
|                              | R.G. Curedale   | 1st Jan. 1953  | 6th Feb. 1953  |
|                              | J.B. Hargreaves | 6th Mar. 1954  | 14th June 1954 |
|                              | P.M. McGregor   | 2nd Nov. 1953  | 3rd June 1954  |
|                              | "               | 28th Sept 1954 | 31st Dec. 1954 |
|                              | A. Parkes       | 1st Jan. 1953  | 31st Dec. 1954 |
|                              | G.F. Schaeffler | 1st Jan. 1953  | 9th Feb. 1953  |
|                              | P.B. Tenni      | 16th Aug. 1954 | 6th Oct. 1954  |
| <u>Assistants (Clerical)</u> | H.B. Cain       | 28th Sept 1954 | 31st Dec. 1954 |
|                              | C.W. Curthoys   | 25th Feb. 1953 | 16th Sept 1953 |
|                              | A.H.C. Farrell  | 1st Jan. 1953  | 31st Dec. 1954 |
|                              | R.J. Lodge      | 15th Oct. 1953 | 21st July 1954 |

TABLE 3  
MAGNETOMETERS

| <u>Element</u> | <u>Instrument</u>  | <u>Period used</u>     |                |
|----------------|--------------------|------------------------|----------------|
|                |                    | <u>From</u>            | <u>To</u>      |
| D              | CIW No. 7          | 1st Jan. 1953          | 25th Sept 1953 |
|                | Askania 508810     | 25th Sept 1953 onwards |                |
| H              | CIW No. 7          | 18th Feb. 1953         | 2nd July 1953  |
|                | QHMs 187, 188, 189 | 6th Jan. 1953          | 17th Feb. 1953 |
|                | "                  | 3rd July 1953          | 25th Sept 1953 |
|                | Askania 508810     | 25th September onwards |                |

TABLE 4  
MAGNETOGRAPH TEMPERATURES, °C

|           | <u>1953</u> |              | <u>1954</u> |              |
|-----------|-------------|--------------|-------------|--------------|
|           | <u>Mean</u> | <u>Range</u> | <u>Mean</u> | <u>Range</u> |
| January   | 23.2        | 3.6          | 24.5        | 2.9          |
| February  | 24.5        | 1.4          | 24.9        | 1.8          |
| March     | 25.3        | 0.7          | 25.3        | 2.6          |
| April     | 23.1        | 2.8          | 22.0        | 4.2          |
| May       | 19.6        | 3.7          | 18.2        | 2.2          |
| June      | 17.0        | 2.9          | 15.7        | 2.3          |
| July      | 15.3        | 1.2          | 14.7        | 1.2          |
| August    | 14.3        | 0.8          | 14.0        | 1.5          |
| September | 15.3        | 1.3          | 15.6        | 2.4          |
| October   | 16.5        | 1.0          | 18.3        | 2.2          |
| November  | 18.3        | 2.3          | 19.0        | 1.6          |
| December  | 21.4        | 1.9          | 21.6        | 3.5          |
| Mean      | 19.5        |              | 19.5        |              |

TABLE 5

## SUMMARY OF MONTHLY MEAN VALUES, WATHEROO

|             | All Days    |          |             | International Days |          |             |                     |          |             |
|-------------|-------------|----------|-------------|--------------------|----------|-------------|---------------------|----------|-------------|
|             |             |          |             | Five Quiet Days    |          |             | Five Disturbed Days |          |             |
|             | H<br>gammas | D<br>o ' | Z<br>gammas | H<br>gammas        | D<br>o ' | Z<br>gammas | H<br>gammas         | D<br>o ' | Z<br>gammas |
| <u>1953</u> |             |          |             |                    |          |             |                     |          |             |
| January     | 24870       | -2 47.1  | -52132      | 24879              | -2 47.0  | -52120      | 24858               | -2 47.3  | -52145      |
| February    | 24873       | -2 47.0  | -52154      | 24879              | -2 46.7  | -52152      | 24858               | -2 47.2  |             |
| March       | 24860       | -2 47.2  | -52121      | 24870              | -2 47.0  | -52123      | 24841               | -2 47.6  | -52124      |
| April       | 24863       | -2 47.0  | -52128      | 24866              | -2 47.0  | -52124      | 24849               | -2 47.0  | -52132      |
| May         | 24859       | -2 46.8  | -52143      | 24874              | -2 46.9  | -52131      | 24846               | -2 46.9  | -52148      |
| June        | 24869       | -2 46.7  | -52159      | 24875              | -2 46.7  | -52160      | 24853               | -2 46.9  | -52165      |
| July        | 24863       | -2 46.5  | -52161      | 24872              | -2 46.4  | -52149      | 24850               | -2 46.7  | -52168      |
| August      | 24860       | -2 46.3  | -52172      | 24873              | -2 46.0  | -52173      | 24843               | -2 46.4  | -52180      |
| September   | 24856       | -2 46.0  | -52164      | 24870              | -2 45.9  | -52158      | 24834               | -2 45.9  | -52169      |
| October     | 24865       | -2 46.2  | -52162      | 24879              | -2 46.0  | -52184      | 24842               | -2 46.8  | -52159      |
| November    | 24873       | -2 46.0  | -52149      | 24886              | -2 45.9  | -52146      | 24863               | -2 45.9  | -52154      |
| December    | 24887       | -2 45.8  | -52138      | 24886              | -2 45.7  | -52143      | 24882               | -2 46.1  | -52137      |
| <u>1954</u> |             |          |             |                    |          |             |                     |          |             |
| January     | 24882       | -2 45.7  | -52138      | 24885              | -2 45.6  | -52135      | 24871               | -2 45.9  | -52137      |
| February    | 24869       | -2 45.7  | -52130      | 24879              | -2 45.6  | -52127      | 24856               | -2 45.9  | -52136      |
| March       | 24865       | -2 45.5  | -52145      | 24871              | -2 45.6  | -52145      | 24857               | -2 45.2  | -52146      |
| April       | 24866       | -2 45.6  | -52155      | 24874              | -2 45.4  | -52154      | 24857               | -2 45.6  | -52156      |
| May         | 24879       | -2 45.1  | -52165      | 24884              | -2 45.1  | -52164      | 24874               | -2 45.2  | -52165      |
| June        | 24886       | -2 44.8  | -52168      | 24885              | -2 45.0  | -52170      | 24882               | -2 44.7  | -52172      |
| July        | 24880       | -2 44.8  | -52172      | 24885              | -2 44.8  | -52182      | 24874               | -2 44.6  | -52168      |
| August      | 24876       | -2 44.7  | -52160      | 24880              | -2 44.8  | -52166      | 24871               | -2 44.6  | -52152      |
| September   | 24868       | -2 44.8  | -52163      | 24874              | -2 44.8  | -52163      | 24861               | -2 44.9  | -52164      |
| October     | 24866       | -2 44.7  | -52177      | 24878              | -2 44.5  | -52176      | 24852               | -2 44.6  | -52178      |
| November    | 24882       | -2 44.6  | -52169      | 24887              | -2 44.4  | -52166      | 24869               | -2 44.8  | -52172      |
| December    | 24889       | -2 44.3  | -52156      | 24891              | -2 44.1  | -52158      | 24884               | -2 44.2  | -52153      |

TABLE 6  
ANNUAL MEAN VALUES (ALL DAYS) 1919-1954  
Adjusted to BMR Standard

| <u>Year</u> | <u>H</u> | <u>D</u>              | <u>Z</u> | <u>H correction*</u> | <u>Z correction*</u> |
|-------------|----------|-----------------------|----------|----------------------|----------------------|
| 1919        | 24921    | -4 <sup>0</sup> 22.8' | -50772   | -4                   | 8                    |
| 1920        | 24884    | -4 22.1               | -50822   | -5                   | 10                   |
| 1921        | 24836    | -4 21.6               | -50853   | -6                   | 12                   |
| 1922        | 24794    | -4 20.9               | -50874   | -5                   | 10                   |
| 1923        | 24769    | -4 19.5               | -50900   | -5                   | 10                   |
| 1924        | 24743    | -4 18.2               | -50925   | -4                   | 9                    |
| 1925        | 24711    | -4 17.6               | -50959   | -4                   | 8                    |
| 1926        | 24671    | -4 17.2               | -50989   | -3                   | 6                    |
| 1927        | 24660    | -4 16.3               | -51010   | -3                   | 5                    |
| 1928        | 24646    | -4 15.0               | -51048   | -2                   | 4                    |
| 1929        | 24634    | -4 12.1               | -51093   | -2                   | 3                    |
| 1930        | 24622    | -4 08.0               | -51149   | -1                   | 2                    |
| 1931        | 24638    | -4 03.3               | -51191   | 0                    | 1                    |
| 1932        | 24638    | -3 58.4               | -51236   | 0                    | 0                    |
| 1933        | 24645    | -3 53.4               | -51279   | 1                    | -2                   |
| 1934        | 24654    | -3 47.8               | -51309   | 1                    | -2                   |
| 1935        | 24657    | -3 42.5               | -51347   | 2                    | -4                   |
| 1936        | 24659    | -3 37.0               | -51380   | 2                    | -5                   |
| 1937        | 24660    | -3 31.7               | -51412   | 3                    | -6                   |
| 1938        | 24664    | -3 26.3               | -51452   | 3                    | -7                   |
| 1939        | 24668    | -3 21.0               | -51479   | 4                    | -8                   |
| 1940        | 24680    | -3 15.8               | -51524   | 4                    | -9                   |
| 1941        | 24684    | -3 12.3               | -51565   | 5                    | -10                  |
| 1942        | 24710    | -3 08.2               | -51604   | 6                    | -12                  |
| 1943        | 24724    | -3 04.4               | -51656   | 6                    | -13                  |
| 1944        | 24752    | -3 01.1               | -51707   | 7                    | -14                  |
| 1945        | 24774    | -2 57.9               | -51762   | 7                    | -15                  |
| 1946        | 24779    | -2 55.5               | -51830   | 8                    | -16                  |
| 1947        | 24801    | -2 53.1               | -51876   | 8                    | -17                  |
| 1948        | 24823    | -2 51.1               | -51936   |                      |                      |
| 1949        | 24835    | -2 49.8               | -51984   |                      |                      |
| 1950        | 24848    | -2 49.2               | -52050   |                      |                      |
| 1951        | 24850    | -2 48.6               | -52089   |                      |                      |
| 1952        | 24858    | -2 47.7               | -52112   |                      |                      |
| 1953        | 24866    | -2 46.6               | -52149   |                      |                      |
| 1954        | 24876    | -2 45.0               | -52158   |                      |                      |

\* Adjustment to originally published values to bring them to BMR Standard



## EXPLANATION OF TABLES OF MEAN HOURLY VALUES, FOURIER COEFFICIENTS ETC.

### General

The following tables are arranged in monthly groups consisting of:

Mean Hourly Values of Horizontal Intensity (H)  
Mean Hourly Values of Declination (D)  
Mean Hourly Values of Vertical Intensity (Z)  
Daily Fourier Coefficients of H, D, Z for each month.

The five international quiet days and the five international disturbed days are indicated by \* and \*\* respectively at the left of the tables.

### Mean Hourly Values tables

The tabulated values are means for hourly periods commencing at Greenwich midnight. Thus the column marked 1 gives the mean for the period 00-01 GMT.

Daily character figures C and daily mean values are given in the right hand columns of each table. Monthly mean values for each hourly period are given at the bottom of the tables for three groups of days:

All days  
Five international quiet days (\*)  
Five international disturbed days (\*\*)

The grand means at the bottom right hand corner are the means of the values in the corresponding rows.

Doubtful values are indicated by \* immediately following the value. Daily means and monthly means for hourly periods are shown as doubtful if more than three values are missing from that day or hour. Monthly means for hourly periods for five international quiet or disturbed days are shown as doubtful if any of the five values is missing.

### Fourier Coefficients tables

The tabulated values are the first four pairs of Fourier coefficients of the daily variation of H, D, Z. At the bottom of the tables, coefficients are given of the monthly mean variation for:

All days  
Five international quiet days (\*)



WATHEROO  
JANUARY 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0153-1-3

|    |    | 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  |    | 877 | 882 | 858 | 838  | 844 | 862  | 871 | 873 | 868 | 868 | 862 | 857 | 857 | 871 | 871 | 877 | 871 | 872 | 881 | 879 | 877 | 875 | 882 | 878 | 0 | 869 |
| 2  |    | 882 | 883 | 879 | 875  | 884 | 887  | 889 | 888 | 878 | 877 | 882 | 867 | 871 | 866 | 875 | 882 | 864 | 887 | 897 | 880 | 866 | 866 | 866 | 865 | 0 | 877 |
| 3  |    | 858 | 858 | 861 | 856  | 860 | 860  | 862 | 863 | 864 | 866 | 866 | 866 | 866 | 863 | 865 | 874 | 868 | 869 | 875 | 872 | 869 | 870 | 872 | 873 | 0 | 866 |
| 4  | *  | 869 | 859 | 848 | 844  | 845 | 852  | 858 | 868 | 873 | 874 | 871 | 872 | 873 | 873 | 873 | 873 | 877 | 875 | 876 | 876 | 875 | 881 | 892 | 901 | 0 | 870 |
| 5  | ** | 908 | 908 | 905 | 891  | 882 | 885  | 895 | 897 | 859 | 805 | 770 | 753 | 765 | 814 | 809 | 820 | 820 | 832 | 849 | 816 | 825 | 826 | 822 | 833 | 2 | 841 |
| 6  |    | 823 | 822 | 808 | 806  | 817 | 822  | 827 | 840 | 836 | 845 | 843 | 843 | 842 | 860 | 850 | 878 | 843 | 852 | 851 | 853 | 849 | 848 | 851 | 846 | 1 | 840 |
| 7  |    | 840 | 838 | 832 | 817  | 811 | 826  | 845 | 858 | 869 | 866 | 862 | 861 | 861 | 857 | 852 | 851 | 851 | 856 | 858 | 861 | 862 | 862 | 859 | 843 | 0 | 850 |
| 8  |    | 852 | 852 | 838 | 846  | 860 | 865  | 873 | 882 | 880 | 875 | 869 | 860 | 868 | 871 | 870 | 870 | 873 | 875 | 878 | 875 | 870 | 870 | 873 | 865 | 0 | 867 |
| 9  |    | 856 | 855 | 852 | 849  | 852 | 853  | 860 | 870 | 880 | 885 | 881 | 879 | 879 | 876 | 874 | 879 | 874 | 879 | 883 | 883 | 882 | 886 | 883 | 872 | 0 | 872 |
| 10 | *  | 860 | 858 | 856 | 863  | 877 | 881  | 878 | 883 | 886 | 883 | 881 | 884 | 884 | 884 | 887 | 884 | 888 | 891 | 894 | 893 | 888 | 886 | 889 | 886 | 0 | 881 |
| 11 |    | 870 | 883 | 882 | 879  | 875 | 873  | 875 | 873 | 872 | 870 | 868 | 869 | 866 | 876 | 883 | 883 | 883 | 881 | 884 | 886 | 890 | 888 | 887 | 882 | 0 | 878 |
| 12 |    | 874 | 870 | 868 | 877  | 881 | 876  | 876 | 870 | 873 | 878 | 881 | 882 | 884 | 883 | 881 | 882 | 883 | 884 | 883 | 886 | 884 | 886 | 889 | 890 | 0 | 880 |
| 13 |    | 887 | 884 | 882 | 881  | 878 | 885  | 883 | 884 | 886 | 881 | 878 | 860 | 872 | 876 | 872 | 880 | 881 | 884 | 885 | 887 | 887 | 882 | 882 | 876 | 0 | 881 |
| 14 |    | 870 | 854 | 860 | 877  | 891 | 892  | 895 | 883 | 872 | 873 | 876 | 879 | 876 | 877 | 876 | 881 | 887 | 889 | 888 | 886 | 884 | 884 | 884 | 882 | 0 | 880 |
| 15 | *  | 872 | 865 | 868 | 877* | 885 |      | 870 | 874 | 872 | 873 | 876 | 879 | 879 | 877 | 877 | 876 | 880 | 880 | 880 | 880 | 882 | 883 | 885 | 889 | 0 | 877 |
| 16 | *  | 886 | 881 | 878 | 872  | 867 | 875  | 874 | 874 | 879 | 881 | 885 | 887 | 883 | 884 | 883 | 884 | 885 | 884 | 882 | 883 | 883 | 888 | 893 | 891 | 0 | 882 |
| 17 | *  | 887 | 879 | 869 | 860  | 864 | 875  | 877 | 880 | 883 | 886 | 885 | 882 | 885 | 886 | 887 | 885 | 886 | 889 | 893 | 892 | 888 | 889 | 891 | 892 | 0 | 883 |
| 18 |    | 891 | 891 | 885 | 877  | 881 | 889  | 896 | 899 | 901 | 897 | 878 | 861 | 854 | 848 | 852 | 860 | 878 | 871 | 868 | 877 | 879 | 880 | 883 | 884 | 0 | 878 |
| 19 | ** | 886 | 874 | 853 | 824  | 822 | 838  | 843 | 849 | 868 | 847 | 834 | 859 | 863 | 860 | 856 | 860 | 857 | 862 | 869 | 873 | 876 | 871 | 871 | 865 | 1 | 858 |
| 20 |    | 857 | 861 | 855 | 850  | 847 | 849  | 852 | 866 | 868 | 866 | 857 | 865 | 865 | 871 | 870 | 869 | 872 | 872 | 874 | 880 | 884 | 880 | 878 | 881 | 0 | 866 |
| 21 |    | 884 | 883 | 881 | 865  | 858 | 859  | 864 | 880 | 891 | 887 | 887 | 883 | 879 | 881 | 883 | 883 | 883 | 882 | 888 | 883 | 883 | 888 | 891 | 892 | 0 | 881 |
| 22 |    | 897 | 891 | 883 | 872  | 872 | 867  | 867 | 869 | 881 | 885 | 885 | 881 | 878 | 882 | 884 | 884 | 884 | 885 | 886 | 885 | 886 | 889 | 892 | 889 | 0 | 882 |
| 23 |    | 881 | 879 | 879 | 872  | 867 | 867  | 876 | 878 | 879 | 878 | 878 | 879 | 880 | 883 | 882 | 883 | 883 | 883 | 883 | 883 | 887 | 889 | 890 | 888 | 0 | 880 |
| 24 |    | 887 | 889 | 889 | 881  | 867 | 874  | 884 | 882 | 890 | 882 | 871 | 863 | 868 | 876 | 879 | 880 | 868 | 871 | 873 | 874 | 878 | 877 | 877 | 870 | 0 | 877 |
| 25 |    | 864 | 862 | 857 | 855  | 868 | 877  | 886 | 892 | 889 | 886 | 873 | 817 | 814 | 854 | 859 | 859 | 864 | 864 | 869 | 881 | 887 | 877 | 877 | 873 | 1 | 867 |
| 26 | ** | 868 | 875 | 871 | 872  | 880 | 867  | 866 | 865 | 865 | 857 | 851 | 849 | 863 | 854 | 866 | 868 | 889 | 886 | 888 | 888 | 877 | 864 | 872 | 860 | 1 | 869 |
| 27 | ** | 855 | 850 | 849 | 859  | 855 | 856  | 857 | 854 | 862 | 858 | 859 | 852 | 876 | 845 | 851 | 864 | 848 | 856 | 885 | 864 | 851 | 856 | 857 | 856 | 1 | 857 |
| 28 | ** | 853 | 850 | 843 | 846  | 852 | 850  | 863 | 863 | 869 | 868 | 861 | 846 | 857 | 858 | 869 | 886 | 880 | 866 | 866 | 874 | 883 | 877 | 856 | 861 | 1 | 862 |
| 29 |    | 855 | 833 | 845 | 845  | 848 | 851  | 852 | 854 | 857 | 852 | 848 | 859 | 856 | 864 | 851 | 875 | 874 | 865 | 875 | 872 | 872 | 874 | 879 | 875 | 1 | 860 |
| 30 |    | 868 | 856 | 848 | 843  | 856 | 868  | 864 | 864 | 859 | 864 | 869 | 873 | 869 | 868 | 874 | 873 | 874 | 882 | 877 | 873 | 870 | 869 | 868 | 867 | 0 | 867 |
| 31 |    | 851 | 854 | 852 | 855  | 860 | 876  | 888 | 884 | 874 | 864 | 860 | 849 | 858 | 866 | 868 | 869 | 870 | 868 | 869 | 870 | 870 | 871 | 874 | 873 | 0 | 866 |
|    |    | 870 | 867 | 862 | 859  | 861 | 865  | 870 | 873 | 874 | 870 | 866 | 862 | 864 | 868 | 869 | 873 | 872 | 874 | 878 | 876 | 876 | 875 | 876 | 874 |   | 870 |
|    | *  | 875 | 868 | 864 | 863  | 868 | 871* | 871 | 876 | 879 | 879 | 880 | 881 | 881 | 881 | 881 | 880 | 883 | 884 | 885 | 885 | 883 | 885 | 890 | 892 |   | 879 |
|    | ** | 874 | 871 | 864 | 858  | 858 | 859  | 865 | 866 | 865 | 847 | 835 | 832 | 845 | 846 | 850 | 860 | 859 | 860 | 871 | 863 | 862 | 859 | 856 | 855 |   | 858 |

WATHEROO  
JANUARY 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |        | 1      | 2   | 3   | 4    | 5   | 6    | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |   |     |
|----|--------|--------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 15 | 1      | 494    | 508 | 508 | 487  | 463 | 447  | 429 | 432 | 442 | 461 | 455 | 474 | 465 | 473 | 478 | 482 | 479 | 476 | 461 | 457 | 479 | 478 | 486 | 497 | 0 | 471 |
|    | 2      | 509    | 510 | 499 | 491  | 476 | 456  | 437 | 437 | 448 | 456 | 472 | 466 | 474 | 468 | 479 | 477 | 491 | 472 | 477 | 476 | 478 | 479 | 489 | 505 | 0 | 476 |
|    | 3      | 498    | 499 | 497 | 479  | 467 | 452  | 441 | 442 | 445 | 455 | 459 | 461 | 471 | 477 | 482 | 476 | 477 | 471 | 459 | 467 | 477 | 486 | 488 | 498 | 0 | 472 |
|    | 4      | * 520  | 534 | 529 | 505  | 467 | 427  | 415 | 412 | 422 | 437 | 455 | 466 | 467 | 468 | 474 | 487 | 477 | 475 | 478 | 473 | 477 | 484 | 488 | 491 | 0 | 472 |
|    | 5      | ** 508 | 524 | 514 | 504  | 488 | 460  | 447 | 430 | 416 | 406 | 415 | 402 | 457 | 468 | 453 | 462 | 477 | 549 | 552 | 499 | 501 | 501 | 491 | 509 | 2 | 476 |
|    | 6      | 518    | 509 | 490 | 478  | 469 | 452  | 429 | 415 | 427 | 439 | 448 | 461 | 467 | 455 | 492 | 507 | 498 | 499 | 498 | 491 | 480 | 488 | 508 | 523 | 1 | 477 |
|    | 7      | 519    | 518 | 501 | 486  | 462 | 429  | 415 | 429 | 443 | 455 | 465 | 464 | 479 | 479 | 470 | 485 | 482 | 477 | 469 | 475 | 479 | 488 | 498 | 508 | 0 | 474 |
|    | 8      | 505    | 509 | 494 | 466  | 461 | 430  | 397 | 392 | 416 | 437 | 455 | 459 | 462 | 466 | 467 | 467 | 466 | 466 | 464 | 465 | 475 | 488 | 512 | 537 | 0 | 465 |
|    | 9      | 541    | 520 | 494 | 469  | 448 | 433  | 425 | 429 | 438 | 447 | 456 | 457 | 457 | 459 | 468 | 477 | 474 | 472 | 474 | 478 | 470 | 489 | 514 | 539 | 0 | 472 |
|    | 10     | * 543  | 531 | 498 | 467  | 443 | 426  | 426 | 426 | 427 | 435 | 446 | 456 | 457 | 457 | 466 | 474 | 471 | 472 | 472 | 476 | 477 | 486 | 492 | 529 | 0 | 469 |
| 15 | 11     | 535    | 519 | 506 | 480  | 457 | 436  | 426 | 420 | 428 | 437 | 458 | 467 | 468 | 469 | 469 | 472 | 476 | 478 | 478 | 478 | 468 | 482 | 507 | 521 | 0 | 472 |
|    | 12     | 524    | 507 | 476 | 450  | 443 | 437  | 446 | 447 | 447 | 448 | 456 | 460 | 464 | 470 | 488 | 478 | 471 | 471 | 474 | 477 | 479 | 489 | 503 | 519 | 0 | 472 |
|    | 13     | 534    | 532 | 512 | 489  | 468 | 447  | 436 | 427 | 428 | 432 | 437 | 439 | 457 | 468 | 474 | 469 | 468 | 468 | 473 | 477 | 489 | 508 | 515 | 527 | 0 | 474 |
|    | 14     | 530    | 520 | 488 | 468  | 452 | 447  | 450 | 458 | 463 | 458 | 454 | 452 | 455 | 460 | 461 | 470 | 467 | 471 | 471 | 475 | 480 | 488 | 500 | 518 | 0 | 473 |
|    | 15     | * 532  | 534 | 498 | 451* | 416 | 395* | 402 | 419 | 439 | 446 | 447 | 455 | 457 | 467 | 469 | 467 | 467 | 468 | 472 | 477 | 478 | 483 | 489 | 512 | 0 | 464 |
|    | 16     | * 533  | 537 | 519 | 504  | 478 | 458  | 448 | 447 | 455 | 457 | 456 | 458 | 461 | 465 | 469 | 482 | 483 | 470 | 470 | 472 | 478 | 483 | 498 | 508 | 0 | 479 |
|    | 17     | * 519  | 530 | 508 | 461  | 423 | 403  | 405 | 423 | 440 | 448 | 456 | 457 | 456 | 457 | 460 | 465 | 468 | 470 | 471 | 478 | 478 | 490 | 501 | 506 | 0 | 466 |
|    | 18     | 525    | 529 | 518 | 498  | 475 | 448  | 425 | 421 | 433 | 438 | 447 | 452 | 459 | 498 | 478 | 477 | 495 | 478 | 482 | 479 | 488 | 498 | 508 | 518 | 0 | 478 |
|    | 19     | ** 527 | 527 | 516 | 490  | 442 | 381  | 344 | 354 | 368 | 381 | 408 | 418 | 426 | 459 | 473 | 487 | 477 | 474 | 479 | 490 | 485 | 500 | 518 | 525 | 1 | 456 |
|    | 20     | 510    | 509 | 503 | 479  | 452 | 437  | 423 | 425 | 434 | 432 | 438 | 449 | 458 | 472 | 463 | 465 | 468 | 469 | 471 | 471 | 469 | 481 | 489 | 498 | 0 | 465 |
| 15 | 21     | 503    | 500 | 483 | 467  | 448 | 430  | 422 | 421 | 422 | 427 | 435 | 445 | 452 | 458 | 461 | 467 | 468 | 478 | 474 | 482 | 488 | 491 | 490 | 499 | 0 | 463 |
|    | 22     | 514    | 530 | 531 | 521  | 493 | 458  | 441 | 437 | 438 | 438 | 447 | 455 | 461 | 467 | 466 | 468 | 469 | 469 | 470 | 470 | 472 | 469 | 474 | 488 | 0 | 473 |
|    | 23     | 497    | 498 | 499 | 489  | 467 | 447  | 431 | 426 | 436 | 446 | 448 | 450 | 455 | 458 | 463 | 467 | 469 | 470 | 473 | 474 | 476 | 484 | 491 | 498 | 0 | 467 |
|    | 24     | 503    | 511 | 517 | 503  | 478 | 450  | 436 | 433 | 445 | 431 | 437 | 445 | 450 | 456 | 477 | 505 | 494 | 489 | 503 | 499 | 479 | 488 | 498 | 507 | 0 | 476 |
|    | 25     | 509    | 500 | 479 | 458  | 444 | 430  | 418 | 415 | 415 | 427 | 441 | 469 | 458 | 462 | 467 | 497 | 491 | 478 | 470 | 465 | 470 | 478 | 500 | 489 | 1 | 464 |
|    | 26     | ** 488 | 491 | 482 | 477  | 474 | 458  | 437 | 429 | 437 | 459 | 453 | 493 | 488 | 494 | 502 | 496 | 488 | 469 | 477 | 466 | 466 | 447 | 481 | 469 | 1 | 472 |
|    | 27     | ** 483 | 500 | 482 | 463  | 452 | 443  | 447 | 456 | 465 | 468 | 469 | 490 | 490 | 492 | 521 | 460 | 508 | 491 | 478 | 505 | 490 | 500 | 514 | 524 | 1 | 483 |
|    | 28     | ** 523 | 514 | 501 | 479  | 469 | 458  | 448 | 448 | 458 | 461 | 461 | 475 | 470 | 479 | 479 | 480 | 520 | 498 | 476 | 458 | 472 | 479 | 488 | 505 | 1 | 479 |
|    | 29     | 510    | 502 | 466 | 442  | 437 | 437  | 444 | 448 | 458 | 461 | 468 | 458 | 467 | 490 | 495 | 475 | 485 | 479 | 469 | 460 | 476 | 489 | 496 | 504 | 1 | 472 |
|    | 30     | 500    | 497 | 481 | 467  | 459 | 457  | 448 | 446 | 443 | 451 | 478 | 470 | 458 | 465 | 476 | 493 | 469 | 478 | 483 | 469 | 473 | 482 | 490 | 502 | 0 | 472 |
| 31 | 512    | 512    | 490 | 468 | 448  | 438 | 437  | 437 | 436 | 448 | 458 | 475 | 481 | 484 | 478 | 472 | 467 | 469 | 470 | 469 | 468 | 471 | 479 | 490 | 501 | 0 | 472 |
|    |        | 515    | 515 | 499 | 479  | 459 | 439  | 428 | 428 | 436 | 443 | 451 | 458 | 463 | 469 | 475 | 477 | 479 | 478 | 477 | 476 | 478 | 486 | 497 | 509 |   | 471 |
|    | *      | 529    | 533 | 510 | 478  | 445 | 422  | 419 | 425 | 437 | 445 | 452 | 458 | 460 | 463 | 468 | 475 | 473 | 471 | 473 | 475 | 478 | 485 | 494 | 509 |   | 470 |
|    | ** 506 | 511    | 499 | 483 | 465  | 440 | 425  | 425 | 423 | 429 | 435 | 441 | 456 | 466 | 478 | 486 | 477 | 494 | 496 | 492 | 484 | 483 | 485 | 498 | 506 |   | 473 |

WATHEROO  
JANUARY 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0153-3-3

|    | 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  | 126 | 129  | 126  | 121  | 111  | 100  | 099  | 110  | 117  | 129  | 124  | 136  | 129  | 127  | 127  | 124  | 122  | 118  | 108  | 110  | 120  | 123  | 124  | 127  | 0    | 120  |
| 2  | 127 | 121  | 113  | 110  | 099  | 095  | 095  | 104  | 119  | 121  | 129  | 127  | 130  | 127  | 130  | 121  | 129  | 111  | 106  | 108  | 115  | 118  | 126  | 132  | 0    | 117  |
| 3  | 133 | 135  | 130  | 122  | 114  | 108  | 111  | 110  | 115  | 121  | 125  | 125  | 129  | 132  | 133  | 122  | 125  | 119  | 112  | 117  | 120  | 123  | 124  | 130  | 0    | 122  |
| 4  | *   | 140  | 139  | 125  | 110  | 091  | 083  | 089  | 101  | 114  | 125  | 127  | 126  | 126  | 127  | 130  | 123  | 121  | 121  | 117  | 120  | 122  | 122  | 128  | 0    | 117  |
| 5  | **  | 139  | 141  | 134  | 127  | 109  | 091  | 095  | 124  | 161  | 191  | 199  | 223  | 190  | 171  | 163  | 164  | 188  | 164  | 140  | 138  | 140  | 134  | 141  | 2    | 149  |
| 6  |     | 150  | 134  | 120  | 117  | 114  | 099  | 100  | 118  | 127  | 138  | 143  | 146  | 132  | 152  | 145  | 144  | 137  | 133  | 127  | 124  | 132  | 142  | 146  | 1    | 130  |
| 7  |     | 141  | 139  | 128  | 114  | 105  | 099  | 099  | 112  | 129  | 135  | 136  | 142  | 138  | 135  | 142  | 138  | 132  | 125  | 128  | 130  | 136  | 141  | 138  | 0    | 128  |
| 8  |     | 122  | 102  | 101  | 101  | 108  | 098  | 087  | 090  | 129  | 136  | 136  | 132  | 132  | 133  | 130  | 127  | 127  | 126  | 126  | 133  | 141  | 150  | 155  | 0    | 122  |
| 9  |     | 145  | 121  | 110  | 105  | 104  | 100  | 101  | 110  | 127  | 132  | 132  | 132  | 134  | 136  | 136  | 134  | 133  | 130  | 132  | 130  | 138  | 150  | 150  | 0    | 127  |
| 10 | *   | 135  | 113  | 091  | 080  | 084  | 094  | 110  | 112  | 121  | 128  | 130  | 130  | 131  | 133  | 134  | 130  | 128  | 128  | 128  | 130  | 135  | 140  | 151  | 0    | 121  |
| 11 |     | 145  | 117  | 105  | 096  | 097  | 104  | 109  | 112  | 127  | 141  | 141  | 141  | 139  | 134  | 133  | 133  | 133  | 133  | 131  | 126  | 136  | 145  | 144  | 0    | 127  |
| 12 |     | 134  | 120  | 102  | 096  | 104  | 110  | 120  | 130  | 132  | 134  | 135  | 134  | 136  | 141  | 133  | 129  | 129  | 131  | 131  | 134  | 138  | 145  | 150  | 0    | 128  |
| 13 |     | 149  | 135  | 117  | 101  | 091  | 084  | 090  | 095  | 116  | 134  | 144  | 148  | 150  | 149  | 140  | 136  | 134  | 136  | 137  | 143  | 148  | 150  | 152  | 0    | 128  |
| 14 |     | 150  | 141  | 116  | 106  | 106  | 116  | 130  | 140  | 139  | 134  | 134  | 136  | 139  | 138  | 138  | 132  | 131  | 130  | 131  | 136  | 139  | 142  | 145  | 0    | 133  |
| 15 | *   | 144  | 128  | 089  | 055* | 047  |      | 057  | 118  | 132  | 133  | 134  | 136  | 140  | 139  | 133  | 130  | 130  | 131  | 132  | 132  | 136  | 142  | 150  | 0    | 122  |
| 16 | *   | 155  | 143  | 127  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0    | 142* |
| 17 | *   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0    |      |
| 18 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0    |      |
| 19 | **  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |
| 20 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0    |      |
| 21 |     |      |      | 121  | 114  | 107  | 108  | 113  | 118  | 125  | 132  | 138  | 144  | 144  | 144  | 144  | 145  | 146  | 138  | 141  | 140  | 138  | 136  | 139  | 0    | 132  |
| 22 |     | 146  | 146  | 140  | 125  | 098  | 085  | 086  | 093  | 114  | 125  | 132  | 138  | 138  | 137  | 138  | 138  | 136  | 136  | 135  | 135  | 131  | 132  | 143  | 0    | 126  |
| 23 |     | 151  | 148  | 142  | 130  | 116  | 110  | 114  | 120  | 135  | 136  | 136  | 136  | 137  | 138  | 138  | 141  | 140  | 140  | 138  | 139  | 139  | 139  | 141  | 0    | 135  |
| 24 |     | 146  | 142  | 136  | 129  | 112  | 098  | 097  | 104  | 125  | 143  | 150  | 151  | 148  | 155  | 164  | 157  | 150  | 154  | 150  | 137  | 141  | 145  | 146  | 0    | 137  |
| 25 |     | 145  | 132  | 117  | 111  | 110  | 104  | 107  | 111  | 134  | 149  | 191  | 184  | 166  | 161  | 172  | 162  | 155  | 149  | 142  | 141  | 149  | 157  | 148  | 1    | 143  |
| 26 | **  | 150  | 148  | 138  | 133  | 131  | 126  | 124  | 130  | 158  | 160  | 179  | 165  | 172  | 166  | 159  | 140  | 130  | 132  | 124  | 130  | 125  | 139  | 132  | 1    | 143  |
| 27 | **  | 144  | 143  | 128  | 118  | 117  | 117  | 128  | 142  | 154  | 158  | 170  | 166  | 173  | 180  | 134  | 162  | 146  | 129  | 145  | 142  | 149  | 157  | 159  | 1    | 146  |
| 28 | **  | 152  | 144  | 130  | 122  | 116  | 116  | 118  | 126  | 152  | 154  | 166  | 163  | 164  | 158  | 149  | 164  | 152  | 139  | 129  | 136  | 143  | 152  | 156  | 1    | 144  |
| 29 |     | 154  | 140  | 116  | 110  | 110  | 114  | 124  | 139  | 153  | 159  | 151  | 159  | 168  | 174  | 145  | 151  | 147  | 136  | 132  | 144  | 151  | 153  | 157  | 1    | 143  |
| 30 |     | 161  | 163  | 157  | 139  | 127  | 124  | 124  | 132  | 151  | 161  | 158  | 153  | 157  | 160  | 164  | 148  | 142  | 145  | 138  | 141  | 148  | 155  | 162  | 0    | 148  |
| 31 |     | 172  | 166  | 148  | 128  | 117  | 111  | 116  | 128  | 153  | 166  | 174  | 173  | 165  | 160  | 157  | 158  | 157  | 154  | 151  | 152  | 157  | 163  | 166  | 0    | 151  |
|    |     | 144* | 136* | 123* | 113* | 106* | 104* | 105* | 114* | 125* | 134* | 142* | 147* | 148* | 146* | 147* | 142* | 141* | 137* | 133* | 132* | 133* | 138* | 143* | 146* | 132  |
|    | *   | 144* | 131* | 108* | 082* | 074* | 087* | 083* | 106* | 116* | 122* | 129* | 130* | 131* | 132* | 133* | 132* | 128* | 126* | 127* | 126* | 127* | 131* | 135* | 143* | 120  |
|    | **  | 146* | 144* | 133* | 125* | 118* | 114* | 115* | 123* | 140* | 156* | 166* | 179* | 179* | 175* | 169* | 151* | 158* | 154* | 141* | 135* | 137* | 139* | 146* | 147* | 145  |

WATHEROO 2-0153-1-3  
JANUARY 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

WATHEROO 2-0153-2-3  
JANUARY 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

WATHEROO 2-0153-3-3  
JANUARY 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

|    | A1      | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|---------|------|------|------|------|------|------|------|
| 1  | 032     | -087 | 007  | -057 | 085  | -012 | 017  | 055  |
| 2  | -001    | 038  | -073 | 010  | 013  | 041  | 036  | 032  |
| 3  | -006    | -056 | -005 | -030 | 008  | -005 | 003  | -015 |
| 4  | * -008  | -116 | 064  | -093 | 070  | -028 | 026  | -020 |
| 5  | ** 389  | 321  | -236 | 174  | 169  | 022  | -015 | 197  |
| 6  | -097    | -171 | 011  | -062 | 049  | -051 | -011 | -005 |
| 7  | -100    | -100 | 040  | -142 | 037  | 013  | -016 | 043  |
| 8  | -069    | -050 | -055 | -087 | 043  | -037 | 013  | 006  |
| 9  | -071    | -110 | 020  | -106 | 007  | -002 | -020 | -012 |
| 10 | * -060  | -084 | -044 | -072 | 000  | -042 | 019  | -026 |
| 11 | 054     | -059 | -023 | 003  | 001  | -014 | -036 | 003  |
| 12 | -001    | -056 | 010  | -019 | -017 | -027 | 015  | -036 |
| 13 | 044     | 000  | -044 | -019 | 022  | 013  | -014 | 021  |
| 14 | -012    | -026 | -084 | -031 | -016 | -062 | 048  | -049 |
| 15 | *       |      |      |      |      |      |      |      |
| 16 | * 004   | -055 | 049  | -023 | 020  | -001 | 011  | -013 |
| 17 | * -014  | -087 | 024  | -058 | 037  | -004 | 025  | 014  |
| 18 | 088     | 122  | -049 | -092 | 080  | 042  | -013 | -001 |
| 19 | ** 060  | -135 | 072  | -062 | 063  | 010  | 023  | 101  |
| 20 | 009     | -118 | 018  | -068 | 022  | -018 | -020 | 018  |
| 21 | -005    | -070 | 063  | -057 | 051  | 038  | -023 | 013  |
| 22 | 035     | -064 | 060  | -015 | 028  | 034  | -011 | -001 |
| 23 | 014     | -061 | 028  | -027 | 022  | -007 | -009 | 008  |
| 24 | 030     | 037  | 001  | 001  | 044  | 012  | -050 | 055  |
| 25 | 084     | 039  | -130 | -139 | 103  | -023 | -079 | 014  |
| 26 | ** 067  | -066 | -102 | 029  | -002 | 037  | 005  | 009  |
| 27 | ** -014 | -022 | -023 | -026 | -021 | 022  | 032  | 007  |
| 28 | ** -032 | -102 | -055 | -054 | 048  | -026 | -060 | -002 |
| 29 | 014     | -130 | 019  | -059 | 022  | -048 | 013  | -037 |
| 30 | -042    | -089 | -013 | -030 | 020  | -015 | 051  | -010 |
| 31 | -008    | -005 | -078 | -057 | 054  | -075 | 007  | 011  |
|    | 012     | -046 | -018 | -042 | 034  | -007 | -001 | 013  |
| *  | -014    | -076 | 020  | -053 | 021  | -020 | 020  | -017 |

|    | A1      | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|---------|------|------|-----|------|------|------|------|
| 1  | 150     | -095 | 157  | 137 | 006  | 067  | -054 | -031 |
| 2  | 168     | -093 | 130  | 117 | 002  | 073  | -008 | -033 |
| 3  | 145     | -088 | 137  | 103 | 013  | 010  | -035 | -009 |
| 4  | * 264   | -154 | 198  | 221 | -042 | 140  | -057 | 004  |
| 5  | ** 428  | -264 | -107 | 175 | -052 | 097  | 096  | 068  |
| 6  | 242     | -261 | 106  | 155 | 048  | 051  | 035  | -066 |
| 7  | 195     | -158 | 218  | 117 | 017  | 093  | -036 | -013 |
| 8  | 284     | -206 | 275  | 111 | -007 | 046  | 008  | -085 |
| 9  | 295     | -164 | 236  | 068 | 107  | 071  | 035  | -012 |
| 10 | * 308   | -174 | 228  | 105 | 086  | 091  | 039  | 042  |
| 11 | 269     | -161 | 224  | 131 | 029  | 088  | 051  | -008 |
| 12 | 185     | -166 | 182  | 028 | 109  | -001 | 030  | 045  |
| 13 | 381     | -139 | 186  | 125 | 031  | 004  | -015 | 024  |
| 14 | 244     | -071 | 146  | 008 | 115  | 051  | 014  | 046  |
| 15 | * 251   | -233 | 286  | 065 | 096  | 150  | -029 | 099  |
| 16 | * 270   | -028 | 140  | 144 | 054  | 086  | -031 | 011  |
| 17 | * 264   | -202 | 258  | 045 | 063  | 156  | -048 | 051  |
| 18 | 300     | -175 | 173  | 185 | 003  | 044  | -031 | 002  |
| 19 | ** 515  | -449 | 275  | 279 | -019 | 104  | -095 | -030 |
| 20 | 247     | -137 | 155  | 130 | 012  | 059  | -008 | 035  |
| 21 | 266     | -215 | 119  | 073 | 001  | 039  | -002 | 018  |
| 22 | 267     | 004  | 094  | 227 | -054 | 104  | -036 | 032  |
| 23 | 236     | -107 | 105  | 097 | -017 | 056  | -029 | -026 |
| 24 | 292     | -197 | 020  | 185 | 011  | 073  | -036 | -017 |
| 25 | 185     | -243 | 160  | 142 | 051  | 043  | 023  | -047 |
| 26 | ** -006 | -125 | 119  | 197 | -036 | 018  | 010  | -010 |
| 27 | ** 069  | -214 | 157  | 000 | 030  | -009 | -002 | 016  |
| 28 | ** 135  | -106 | 110  | 142 | 099  | 086  | 033  | -038 |
| 29 | 083     | -170 | 178  | 024 | 130  | -003 | 005  | 030  |
| 30 | 127     | -115 | 107  | 057 | 043  | 035  | 023  | -033 |
| 31 | 119     | -103 | 223  | 060 | 014  | 076  | 029  | 020  |
|    | 233     | -161 | 161  | 118 | 029  | 064  | -005 | 003  |
| *  | 270     | -159 | 222  | 116 | 051  | 124  | -026 | 041  |

|    | A1      | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|---------|------|-----|------|------|------|------|------|
| 1  | -018    | -031 | 111 | 020  | 005  | 030  | -033 | -016 |
| 2  | -035    | -062 | 130 | 007  | 039  | 014  | -018 | -020 |
| 3  | 009     | -029 | 090 | 043  | 011  | 013  | -014 | 011  |
| 4  | * 022   | -137 | 156 | 046  | 018  | 079  | -018 | 014  |
| 5  | ** -254 | -254 | 231 | 064  | -097 | 130  | 064  | -042 |
| 6  | -019    | -139 | 131 | 041  | 035  | 028  | 020  | -045 |
| 7  | -010    | -120 | 129 | 008  | 034  | 035  | -017 | -004 |
| 8  | -016    | -172 | 134 | -066 | -002 | -024 | 002  | -093 |
| 9  | 006     | -148 | 116 | -042 | 055  | -003 | 016  | -027 |
| 10 | * -033  | -176 | 109 | -089 | 088  | -034 | 050  | 002  |
| 11 | -042    | -144 | 123 | -057 | 043  | -005 | 057  | -017 |
| 12 | -039    | -105 | 080 | -088 | 069  | -043 | 027  | 006  |
| 13 | 009     | -245 | 197 | -003 | 007  | 000  | 018  | 010  |
| 14 | -019    | -055 | 077 | -067 | 094  | -012 | 013  | 046  |
| 15 | *       |      |     |      |      |      |      |      |
| 16 | *       |      |     |      |      |      |      |      |
| 17 | *       |      |     |      |      |      |      |      |
| 18 |         |      |     |      |      |      |      |      |
| 19 | **      |      |     |      |      |      |      |      |
| 20 |         |      |     |      |      |      |      |      |
| 21 | 052     | -186 | 146 | 071  | -005 | 080  | -014 | 023  |
| 22 | 031     | -088 | 080 | 012  | 023  | 062  | -017 | 018  |
| 23 | -016    | -222 | 113 | 068  | -004 | 061  | -004 | -019 |
| 24 | -137    | -237 | 175 | 016  | -010 | -004 | 027  | -040 |
| 25 |         |      |     |      |      |      |      |      |
| 26 | ** -148 | -019 | 155 | 060  | -006 | 017  | -007 | 004  |
| 27 | ** -119 | -100 | 150 | -037 | 045  | -026 | 002  | 017  |
| 28 | ** -094 | -113 | 145 | 001  | 059  | 027  | 019  | -026 |
| 29 | -103    | -120 | 144 | -049 | 086  | -028 | 000  | 017  |
| 30 | -013    | -063 | 141 | 032  | 045  | 044  | -027 | -002 |
| 31 | -031    | -151 | 191 | -009 | 027  | 067  | 020  | 011  |
|    | -041    | -134 | 137 | -005 | 031  | 022  | 007  | -005 |
| *  | -015    | -186 | 165 | -051 | 083  | 037  | 015  | 032  |

WATHEROO  
 FEBRUARY 1953  
 HORIZONTAL INTENSITY  
 24000 PLUS TABULAR VALUES IN GAMMAS

2-0253-1-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |   |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 18 | 1  | *   | 864 | 855 | 853 | 851 | 846 | 857 | 869  | 878 | 883 | 882 | 880 | 879 | 878 | 877 | 875 | 873 | 874 | 874 | 877 | 878 | 873 | 873 | 877 | 881 | 0 | 871 |
|    | 2  |     | 879 | 871 | 851 | 848 | 865 | 884 | 890  | 882 | 876 | 869 | 872 | 876 | 874 | 873 | 876 | 878 | 883 | 878 | 873 | 875 | 875 | 877 | 877 | 875 | 0 | 874 |
|    | 3  |     | 867 | 856 | 848 | 856 | 869 | 880 | 890  | 887 | 883 | 883 | 877 | 872 | 877 | 876 | 877 | 876 | 878 | 880 | 879 | 883 | 882 | 882 | 886 | 886 | 0 | 876 |
|    | 4  |     | 888 | 894 | 886 | 881 | 883 | 889 | 890  | 889 | 888 | 885 | 883 | 879 | 873 | 881 | 889 | 878 | 875 | 877 | 884 | 877 | 879 | 883 | 884 | 888 | 0 | 883 |
|    | 5  | *   | 887 | 879 | 871 | 865 | 859 | 861 | 874  | 884 | 888 | 886 | 879 | 877 | 875 | 878 | 881 | 884 | 888 | 886 | 886 | 887 | 889 | 889 | 889 | 891 | 0 | 881 |
|    | 6  | *   | 887 | 885 | 881 | 881 | 879 | 874 | 874  | 877 | 880 | 881 | 882 | 887 | 885 | 881 | 881 | 881 | 884 | 890 | 887 | 884 | 883 | 886 | 887 | 888 | 0 | 883 |
|    | 7  | *   | 886 | 884 | 882 | 875 | 865 | 863 | 867  | 874 | 885 | 885 | 889 | 890 | 890 | 891 | 888 | 886 | 885 | 886 | 888 | 890 | 890 | 889 | 890 | 890 | 0 | 884 |
|    | 8  |     | 887 | 884 | 878 | 871 | 864 | 864 | 873  | 879 | 882 | 884 | 888 | 892 | 891 | 892 | 893 | 891 | 896 | 897 | 898 | 897 | 890 | 887 | 887 | 882 | 0 | 885 |
|    | 9  |     | 877 | 879 | 884 | 879 | 869 | 866 | 876  | 887 | 892 | 893 | 891 | 884 | 865 | 858 | 866 | 875 | 890 | 882 | 883 | 884 | 880 | 891 | 892 | 889 | 0 | 881 |
|    | 10 |     | 884 | 881 | 879 | 874 | 868 | 862 | 860  | 863 | 871 | 874 | 876 | 874 | 875 | 872 | 881 | 876 | 872 | 876 | 875 | 877 | 879 | 874 | 876 | 874 | 0 | 874 |
| 18 | 11 |     | 874 | 865 | 877 | 887 | 884 | 882 | 884  | 871 | 869 | 865 | 865 | 863 | 864 | 868 | 871 | 871 | 874 | 876 | 877 | 880 | 880 | 879 | 878 | 878 | 0 | 874 |
|    | 12 |     | 874 | 871 | 868 | 868 | 871 | 877 | 882  | 889 | 885 | 877 | 870 | 867 | 868 | 868 | 871 | 874 | 876 | 879 | 881 | 876 | 875 | 874 | 875 | 873 | 0 | 875 |
|    | 13 | *   | 863 | 852 | 854 | 867 | 876 | 876 | 878  | 878 | 878 | 879 | 879 | 881 | 882 | 883 | 883 | 882 | 882 | 886 | 886 | 887 | 889 | 888 | 894 | 896 | 0 | 879 |
|    | 14 |     | 889 | 877 | 876 | 871 | 861 | 867 | 875  | 867 | 862 | 868 | 868 | 876 | 878 | 878 | 875 | 876 | 870 | 879 | 879 | 889 | 884 | 883 | 886 | 891 | 0 | 876 |
|    | 15 |     | 890 | 882 | 881 | 883 | 885 | 881 | 882  | 889 | 891 | 890 | 885 | 890 | 887 | 886 | 881 | 883 | 883 | 883 | 887 | 896 | 895 | 897 | 897 | 887 | 0 | 887 |
| 18 | 16 |     | 891 | 887 | 883 | 873 | 865 | 863 | 864* | 858 | 863 | 855 | 857 | 862 | 862 | 853 | 852 | 861 | 883 | 874 | 862 | 866 | 871 | 874 | 880 | 882 | 0 | 868 |
|    | 17 |     | 877 | 875 | 868 | 856 | 861 | 874 | 882  | 881 | 877 | 871 | 869 | 880 | 879 | 880 | 880 | 885 | 883 | 882 | 884 | 886 | 889 | 882 | 879 | 881 | 0 | 878 |
|    | 18 |     | 876 | 868 | 864 | 863 | 856 | 849 | 852  | 863 | 872 | 874 | 880 | 881 | 884 | 884 | 883 | 884 | 885 | 887 | 891 | 892 | 889 | 889 | 884 | 885 | 0 | 876 |
|    | 19 |     | 886 | 886 | 880 | 871 | 863 | 855 | 865  | 866 | 872 | 876 | 875 | 876 | 868 | 870 | 876 | 887 | 876 | 878 | 880 | 884 | 879 | 877 | 879 | 881 | 0 | 875 |
|    | 20 |     | 877 | 879 | 878 | 874 | 868 | 861 | 862  | 863 | 868 | 876 | 879 | 878 | 879 | 881 | 883 | 888 | 888 | 891 | 894 | 885 | 885 | 888 | 891 | 895 | 0 | 880 |
| 18 | 21 |     | 889 | 880 | 889 | 900 | 893 | 879 | 862  | 860 | 859 | 868 | 872 | 876 | 877 | 879 | 880 | 877 | 877 | 880 | 883 | 880 | 879 | 882 | 880 | 883 | 0 | 879 |
|    | 22 | **  | 887 | 885 | 887 | 884 | 876 | 869 | 866  | 868 | 868 | 872 | 880 | 888 | 879 | 879 | 884 | 879 | 879 | 890 | 877 | 883 | 872 | 871 | 881 | 852 | 0 | 877 |
|    | 23 | **  | 842 | 857 | 855 | 846 | 846 | 849 | 837  | 838 | 818 | 829 | 847 | 856 | 852 | 843 | 857 | 846 | 855 | 882 | 872 | 871 | 857 | 860 | 865 | 858 | 1 | 852 |
|    | 24 | **  | 860 | 858 | 848 | 845 | 856 | 832 | 853  | 832 | 838 | 846 | 850 | 862 | 872 | 855 | 857 | 867 | 876 | 871 | 879 | 876 | 871 | 868 | 875 | 852 | 1 | 858 |
|    | 25 | **  | 848 | 831 | 832 | 840 | 827 | 830 | 842  | 835 | 846 | 843 | 852 | 852 | 862 | 876 | 867 | 856 | 867 | 878 | 881 | 878 | 878 | 876 | 866 | 853 | 1 | 855 |
| 18 | 26 | **  | 847 | 852 | 836 | 831 | 831 | 846 | 846  | 830 | 825 | 847 | 837 | 828 | 835 | 833 | 857 | 863 | 853 | 865 | 861 | 864 | 858 | 858 | 863 | 850 | 1 | 847 |
|    | 27 |     | 839 | 840 | 841 | 847 | 854 | 849 | 848  | 840 | 827 | 844 | 835 | 837 | 848 | 853 | 862 | 877 | 861 | 856 | 861 | 861 | 861 | 862 | 859 | 864 | 0 | 851 |
|    | 28 |     | 864 | 865 | 861 | 842 | 823 | 834 | 846  | 853 | 851 | 851 | 853 | 856 | 854 | 855 | 854 | 854 | 857 | 868 | 867 | 870 | 866 | 864 | 864 | 863 | 0 | 856 |
| 18 |    |     | 874 | 871 | 868 | 865 | 863 | 863 | 867  | 867 | 868 | 870 | 870 | 872 | 872 | 872 | 874 | 875 | 877 | 880 | 880 | 881 | 879 | 879 | 880 | 877 |   | 873 |
|    |    | *   | 877 | 871 | 868 | 868 | 865 | 866 | 872  | 878 | 883 | 883 | 882 | 883 | 882 | 882 | 882 | 881 | 883 | 884 | 885 | 885 | 885 | 885 | 887 | 889 |   | 879 |
|    | ** | 857 | 857 | 852 | 849 | 847 | 845 | 849 | 848  | 841 | 839 | 847 | 853 | 857 | 860 | 857 | 864 | 862 | 866 | 877 | 874 | 874 | 867 | 867 | 870 | 853 |   | 858 |

WATHEROO  
 FEBRUARY 1953  
 DECLINATION WEST  
 2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 1  | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |   |     |
|----|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 19 | 1  | *  | 514 | 520 | 508 | 489 | 459 | 431 | 419  | 427 | 439 | 453 | 458 | 459 | 458 | 459 | 465 | 466 | 469 | 470 | 471 | 469 | 468 | 466 | 485 | 508 | 0 | 468 |
|    | 2  |    | 528 | 541 | 525 | 477 | 437 | 415 | 399  | 408 | 432 | 452 | 460 | 461 | 461 | 467 | 468 | 473 | 489 | 473 | 468 | 466 | 466 | 469 | 484 | 503 | 0 | 468 |
|    | 3  |    | 520 | 525 | 507 | 480 | 445 | 417 | 407  | 411 | 425 | 437 | 452 | 460 | 459 | 460 | 469 | 470 | 478 | 479 | 471 | 474 | 480 | 483 | 488 | 508 | 0 | 467 |
|    | 4  |    | 532 | 542 | 541 | 510 | 463 | 434 | 420  | 418 | 427 | 438 | 449 | 451 | 459 | 470 | 501 | 482 | 480 | 470 | 470 | 470 | 470 | 474 | 484 | 500 | 0 | 473 |
|    | 5  | *  | 521 | 529 | 520 | 490 | 458 | 429 | 418  | 417 | 425 | 438 | 458 | 460 | 459 | 460 | 464 | 467 | 468 | 468 | 466 | 466 | 471 | 479 | 487 | 499 | 0 | 467 |
|    | 6  |    | 514 | 526 | 517 | 499 | 472 | 448 | 430  | 422 | 428 | 439 | 450 | 458 | 460 | 466 | 463 | 468 | 470 | 468 | 475 | 473 | 477 | 480 | 491 | 505 | 0 | 471 |
|    | 7  | *  | 516 | 519 | 506 | 484 | 464 | 442 | 417  | 407 | 409 | 428 | 444 | 452 | 453 | 456 | 460 | 464 | 469 | 470 | 472 | 472 | 474 | 480 | 489 | 502 | 0 | 465 |
|    | 8  |    | 518 | 518 | 508 | 486 | 462 | 443 | 437  | 428 | 433 | 438 | 448 | 453 | 457 | 459 | 463 | 466 | 469 | 470 | 469 | 473 | 480 | 485 | 494 | 508 | 0 | 469 |
|    | 9  |    | 528 | 521 | 509 | 481 | 439 | 407 | 403  | 417 | 429 | 443 | 456 | 463 | 470 | 477 | 474 | 478 | 480 | 480 | 473 | 480 | 483 | 465 | 482 | 500 | 0 | 468 |
|    | 10 |    | 511 | 511 | 499 | 481 | 466 | 453 | 441  | 438 | 439 | 445 | 450 | 456 | 457 | 469 | 485 | 479 | 488 | 492 | 481 | 470 | 470 | 465 | 491 | 503 | 0 | 473 |
| 19 | 11 |    | 511 | 501 | 479 | 462 | 454 | 440 | 433  | 437 | 447 | 453 | 459 | 466 | 480 | 470 | 470 | 469 | 470 | 471 | 474 | 475 | 470 | 471 | 491 | 506 | 0 | 469 |
|    | 12 |    | 516 | 513 | 495 | 472 | 450 | 428 | 422  | 429 | 445 | 455 | 461 | 466 | 464 | 470 | 470 | 481 | 480 | 475 | 470 | 471 | 472 | 481 | 491 | 511 | 0 | 470 |
|    | 13 | *  | 522 | 523 | 503 | 461 | 429 | 410 | 408  | 423 | 441 | 455 | 459 | 461 | 461 | 462 | 464 | 466 | 470 | 470 | 471 | 472 | 477 | 475 | 481 | 507 | 0 | 465 |
|    | 14 |    | 528 | 526 | 519 | 506 | 481 | 444 | 418  | 409 | 418 | 424 | 436 | 445 | 455 | 461 | 466 | 476 | 476 | 479 | 481 | 455 | 481 | 482 | 492 | 504 | 0 | 469 |
|    | 15 |    | 512 | 511 | 502 | 486 | 454 | 423 | 406  | 407 | 415 | 427 | 439 | 450 | 457 | 460 | 469 | 472 | 475 | 476 | 472 | 471 | 476 | 481 | 495 | 503 | 0 | 464 |
|    | 16 |    | 506 | 513 | 509 | 492 | 462 | 420 | 405* | 409 | 429 | 442 | 451 | 452 | 460 | 466 | 479 | 485 | 462 | 499 | 484 | 481 | 481 | 482 | 492 | 512 | 0 | 470 |
|    | 17 |    | 522 | 525 | 518 | 494 | 456 | 419 | 395  | 396 | 412 | 420 | 430 | 440 | 450 | 456 | 462 | 470 | 473 | 471 | 471 | 470 | 471 | 482 | 492 | 502 | 0 | 462 |
|    | 18 |    | 523 | 533 | 532 | 514 | 483 | 450 | 420  | 410 | 420 | 437 | 451 | 456 | 460 | 462 | 464 | 469 | 469 | 470 | 471 | 471 | 477 | 479 | 475 | 479 | 0 | 470 |
|    | 19 |    | 510 | 531 | 543 | 533 | 506 | 461 | 428  | 421 | 433 | 440 | 450 | 455 | 466 | 465 | 468 | 475 | 474 | 471 | 470 | 463 | 471 | 473 | 482 | 490 | 0 | 474 |
|    | 20 |    | 501 | 512 | 523 | 521 | 496 | 467 | 439  | 425 | 424 | 430 | 445 | 458 | 462 | 462 | 470 | 473 | 476 | 471 | 483 | 487 | 482 | 482 | 488 | 492 | 0 | 474 |
| 19 | 21 |    | 510 | 495 | 489 | 498 | 481 | 463 | 450  | 440 | 448 | 451 | 453 | 456 | 460 | 462 | 463 | 471 | 489 | 481 | 482 | 477 | 472 | 471 | 470 | 466 | 0 | 471 |
|    | 22 | ** | 486 | 502 | 505 | 502 | 492 | 467 | 441  | 432 | 433 | 440 | 451 | 454 | 461 | 465 | 471 | 476 | 483 | 506 | 485 | 482 | 475 | 440 | 465 | 460 | 0 | 470 |
|    | 23 | ** | 442 | 453 | 468 | 466 | 466 | 469 | 443  | 443 | 443 | 464 | 454 | 457 | 462 | 486 | 520 | 503 | 490 | 468 | 476 | 483 | 479 | 481 | 486 | 483 | 1 | 470 |
|    | 24 | ** | 487 | 487 | 492 | 474 | 468 | 436 | 442  | 441 | 461 | 452 | 461 | 483 | 504 | 493 | 479 | 488 | 471 | 480 | 467 | 473 | 432 | 454 | 442 | 447 | 1 | 467 |
|    | 25 | ** | 452 | 484 | 497 | 499 | 487 | 473 | 450  | 453 | 461 | 470 | 473 | 471 | 484 | 494 | 483 | 479 | 471 | 469 | 463 | 481 | 480 | 477 | 480 | 472 | 1 | 475 |
|    | 26 | ** | 470 | 488 | 483 | 491 | 484 | 470 | 450  | 441 | 461 | 457 | 489 | 484 | 513 | 481 | 493 | 484 | 501 | 502 | 490 | 473 | 418 | 452 | 462 | 467 | 1 | 475 |
|    | 27 |    | 499 | 511 | 514 | 504 | 500 | 483 | 467  | 459 | 462 | 467 | 452 | 484 | 462 | 471 | 482 | 474 | 503 | 484 | 472 | 474 | 480 | 464 | 438 | 452 | 0 | 477 |
|    | 28 |    | 488 | 504 | 514 | 515 | 493 | 479 | 470  | 452 | 453 | 453 | 460 | 462 | 466 | 473 | 478 | 495 | 479 | 466 | 482 | 462 | 467 | 473 | 472 | 479 | 0 | 476 |
| 19 |    |    | 507 | 513 | 508 | 492 | 468 | 444 | 428  | 426 | 435 | 445 | 454 | 460 | 465 | 468 | 474 | 476 | 478 | 477 | 474 | 473 | 471 | 473 | 481 | 492 |   | 470 |
|    | *  |    | 517 | 523 | 511 | 485 | 456 | 432 | 418  | 419 | 428 | 443 | 454 | 458 | 458 | 461 | 463 | 466 | 469 | 469 | 471 | 470 | 473 | 476 | 487 | 504 |   | 467 |
|    | ** |    | 467 | 483 | 489 | 486 | 479 | 463 | 445  | 442 | 452 | 457 | 466 | 470 | 485 | 484 | 489 | 486 | 483 | 485 | 476 | 478 | 457 | 461 | 467 | 466 |   | 472 |

WATHEROO  
 FEBRUARY 1953  
 VERTICAL INTENSITY  
 52000 PLUS TABULAR VALUES IN GAMMAS

2-0253-3-3

|    |    | 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  | *  | 172  | 165  | 148  | 130  | 116  | 109  | 114  | 126  | 139  | 150  | 154  | 156  | 158  | 159  | 160  | 158  | 157  | 156  | 152  | 150  | 149  | 150  | 161  | 170  | 0 | 148 |
| 2  |    | 175  | 168  | 156  | 129  | 104  | 099  | 105  | 119  | 143  | 158  | 158  | 157  | 158  | 162  | 161  | 161  | 160  | 153  | 148  | 147  | 146  | 150  | 158  | 166  | 0 | 148 |
| 3  |    | 180  | 177  | 158  | 118  | 101  | 096  | 102  | 117  | 138  | 151  | 160  | 166  | 165  | 165  | 166  | 166  | 166  | 160  | 155  | 153  | 155  | 157  | 159  | 169  | 0 | 150 |
| 4  |    | 181  | 174  | 159  | 125  | 105  | 101  | 107  | 123  | 139  | 149  | 156  | 157  | 164  | 165  | 174  | 164  | 162  | 157  | 151  | 151  | 151  | 153  | 157  | 164  | 0 | 150 |
| 5  | *  | 177  | 174  | 157  | 136  | 120  | 113  | 112  | 119  | 134  | 154  | 161  | 162  | 163  | 162  | 162  | 161  | 160  | 158  | 155  | 152  | 152  | 156  | 159  | 166  | 0 | 151 |
| 6  | *  | 177  | 176  | 162  | 142  | 126  | 117  | 112  | 118  | 131  | 144  | 153  | 154  | 160  | 164  | 162  | 162  | 163  | 159  | 160  | 158  | 158  | 159  | 162  | 167  | 0 | 152 |
| 7  | *  | 169  | 163  | 145  | 116  | 108  | 107  | 109  | 116  | 128  | 145  | 152  | 152  | 154  | 158  | 159  | 161  | 161  | 160  | 158  | 156  | 155  | 157  | 160  | 166  | 0 | 146 |
| 8  |    | 171  | 169  | 161  | 147  | 134  | 125  | 123  | 132  | 140  | 150  | 153  | 154  | 155  | 158  | 160  | 161  | 161  | 160  | 158  | 159  | 161  | 162  | 169  | 174  | 0 | 154 |
| 9  |    | 179  | 166  | 148  | 122  | 103  | 097  | 112  | 133  | 152  | 161  | 163  | 167  | 176  | 179  | 173  | 170  | 163  | 162  | 161  | 162  | 164  | 152  | 160  | 166  | 0 | 154 |
| 10 |    | 164  | 154  | 147  | 139  | 133  | 132  | 134  | 141  | 153  | 158  | 161  | 162  | 163  | 169  | 172  | 169  | 172  | 170  | 165  | 161  | 158  | 158  | 169  | 170  | 0 | 157 |
| 11 |    | 170  | 159  | 137  | 136  | 135  | 136  | 144  | 161  | 173  | 174  | 173  | 178  | 182  | 174  | 172  | 169  | 167  | 166  | 166  | 166  | 166  | 167  | 180  | 181  | 0 | 164 |
| 12 |    | 182  | 173  | 151  | 134  | 124  | 122  | 130  | 147  | 166  | 174  | 177  | 179  | 177  | 177  | 174  | 173  | 168  | 166  | 159  | 163  | 166  | 172  | 180  | 185  | 0 | 163 |
| 13 | *  | 188  | 177  | 145  | 110  | 106  | 114  | 127  | 147  | 167  | 174  | 172  | 172  | 170  | 170  | 169  | 169  | 169  | 168  | 167  | 167  | 168  | 169  | 173  | 186  | 0 | 160 |
| 14 |    | 197  | 189  | 174  | 151  | 126  | 115  | 115  | 123  | 148  | 165  | 175  | 176  | 181  | 182  | 184  | 185  | 183  | 177  | 176  | 160  | 172  | 175  | 179  | 184  | 0 | 166 |
| 15 |    | 187  | 181  | 170  | 149  | 129  | 119  | 118  | 129  | 148  | 162  | 170  | 175  | 178  | 181  | 184  | 183  | 179  | 177  | 171  | 163  | 164  | 170  | 178  | 186  | 0 | 165 |
| 16 |    | 188  | 188  | 174  | 151  | 129  | 117  | 106  | 108  | 129  | 155  | 163  | 163  | 170  | 178  | 183  | 178  | 155  | 169  | 158  | 148  | 147  | 151  | 161  | 169  | 0 | 156 |
| 17 |    | 177  | 170  | 157  | 143  | 124  | 103  | 100  | 105  | 125  | 140  | 154  | 154  | 163  | 168  | 170  | 169  | 167  | 162  | 155  | 152  | 148  | 155  | 164  | 172  | 0 | 150 |
| 18 |    | 185  | 180  | 166  | 141  | 119  | 109  | 105  | 108  | 118  | 130  | 142  | 147  | 153  | 156  | 157  | 159  | 156  | 153  | 149  | 146  | 146  | 147  | 148  | 154  | 0 | 145 |
| 19 |    | 181  | 182  | 175  | 153  | 125  | 109  | 108  | 115  | 130  | 139  | 148  | 154  | 169  | 166  | 163  | 163  | 162  | 158  | 154  | 147  | 150  | 151  | 154  | 157  | 0 | 151 |
| 20 |    | 168  | 172  | 171  | 150  | 132  | 120  | 114  | 116  | 123  | 133  | 145  | 149  | 154  | 154  | 158  | 158  | 157  | 151  | 154  | 155  | 149  | 147  | 148  | 154  | 0 | 147 |
| 21 |    | 165  | 162  | 148  | 141  | 134  | 132  | 131  | 133  | 145  | 148  | 148  | 148  | 149  | 155  | 155  | 160  | 171  | 160  | 156  | 153  | 149  | 147  | 146  | 146  | 0 | 149 |
| 22 | ** |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0 |     |
| 23 | ** |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0 |     |
| 24 | ** |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 |     |
| 25 | ** |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 |     |
| 26 | ** |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 |     |
| 27 |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0 |     |
| 28 |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0 |     |
|    | *  | 178* | 172* | 158* | 136* | 121* | 114* | 116* | 126* | 141* | 153* | 159* | 161* | 165* | 167* | 168* | 167* | 165* | 162* | 158* | 156* | 156* | 157* | 163* | 169* |   | 154 |
|    | ** | 177  | 171  | 151  | 127  | 115  | 112  | 115  | 125  | 140  | 153  | 158  | 159  | 161  | 163  | 162  | 162  | 162  | 160  | 158  | 157  | 156  | 158  | 163  | 171  |   | 152 |

WATHEROO  
FEBRUARY 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0253-1-3

WATHEROO  
FEBRUARY 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0253-2-3

WATHEROO  
FEBRUARY 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0253-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | *  | -076 | -065 | 029  | -092 | 043  | -006 | 012  | 010  |
| 2  |    | -031 | -027 | -025 | -044 | 058  | -054 | 060  | 007  |
| 3  |    | -041 | -033 | -037 | -097 | 040  | -066 | 033  | -012 |
| 4  |    | 024  | 042  | 005  | -004 | 031  | -006 | -001 | 021  |
| 5  | *  | 006  | -078 | 023  | -067 | 065  | 015  | -012 | 017  |
| 6  | *  | 015  | -038 | 025  | -005 | 001  | 021  | 014  | -009 |
| 7  | *  | -014 | -083 | 068  | -028 | 004  | 026  | -015 | 014  |
| 8  |    | -038 | -116 | 027  | -018 | 013  | 035  | 006  | 025  |
| 9  |    | 029  | -005 | 002  | -086 | 044  | 063  | -029 | -045 |
| 10 |    | 019  | -042 | 044  | 013  | -002 | 034  | -021 | 010  |
| 11 |    | 061  | 005  | -056 | 007  | -020 | -030 | -001 | -017 |
| 12 |    | -002 | 007  | -049 | -040 | 042  | -002 | 007  | 017  |
| 13 | *  | -030 | -081 | -015 | -073 | 000  | -067 | 021  | -045 |
| 14 |    | 057  | -069 | 043  | -015 | 000  | -013 | 029  | 026  |
| 15 |    | 016  | -020 | 015  | -056 | -011 | -010 | -011 | 003  |
| 16 |    | 123  | -014 | 030  | 025  | 037  | 038  | 021  | -017 |
| 17 |    | -012 | -073 | -010 | -037 | 030  | -028 | 023  | 037  |
| 18 |    | -017 | -159 | 051  | -043 | -003 | 021  | -010 | 001  |
| 19 |    | 034  | -064 | 039  | 000  | 029  | 049  | -022 | 014  |
| 20 |    | 027  | -120 | 035  | -001 | 008  | 022  | -002 | -027 |
| 21 |    | 074  | -024 | 019  | 074  | -059 | 012  | -004 | -032 |
| 22 | ** | -009 | -031 | 017  | 055  | -034 | 053  | -007 | 006  |
| 23 | ** | 065  | -134 | -017 | 021  | -056 | 022  | 060  | -019 |
| 24 | ** | 024  | -163 | 007  | 000  | -036 | 012  | 031  | -016 |
| 25 | ** | -028 | -223 | -003 | -059 | -032 | -025 | 006  | 019  |
| 26 | ** | 060  | -134 | -038 | -014 | 036  | -010 | 002  | -014 |
| 27 |    | 029  | -116 | -039 | 031  | 003  | -068 | -014 | -034 |
| 28 |    | 038  | -106 | 042  | -044 | 029  | 047  | 007  | 054  |
|    |    | 015  | -072 | 008  | -022 | 008  | 004  | 005  | 001  |
|    | *  | -021 | -069 | 026  | -053 | 022  | -001 | 002  | -003 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  | *  | 230  | -093 | 185  | 127 | 023  | 140  | -018 | 003  |
| 2  |    | 237  | -171 | 266  | 180 | 056  | 206  | -041 | 021  |
| 3  |    | 267  | -202 | 220  | 138 | 016  | 137  | -023 | 008  |
| 4  |    | 283  | -118 | 203  | 275 | 018  | 126  | -081 | 048  |
| 5  | *  | 272  | -110 | 214  | 163 | -008 | 131  | -026 | 007  |
| 6  | *  | 285  | -090 | 158  | 163 | -032 | 089  | -010 | 003  |
| 7  | *  | 307  | -149 | 166  | 166 | -031 | 087  | 014  | -017 |
| 8  |    | 285  | -103 | 153  | 114 | 011  | 065  | -003 | 011  |
| 9  |    | 206  | -218 | 237  | 158 | 018  | 162  | -029 | 056  |
| 10 |    | 190  | -128 | 089  | 159 | 062  | 069  | 023  | -002 |
| 11 |    | 142  | -127 | 174  | 056 | 035  | 054  | 045  | 019  |
| 12 |    | 184  | -154 | 201  | 092 | 060  | 099  | -014 | -006 |
| 13 | *  | 211  | -175 | 246  | 070 | 061  | 164  | -024 | 054  |
| 14 |    | 343  | -133 | 148  | 235 | -015 | 088  | -014 | -027 |
| 15 |    | 283  | -207 | 183  | 166 | -006 | 087  | -022 | -016 |
| 16 |    | 255  | -221 | 169  | 155 | -014 | 126  | -046 | -012 |
| 17 |    | 353  | -199 | 201  | 214 | -008 | 124  | -045 | -002 |
| 18 |    | 297  | -070 | 147  | 235 | -087 | 138  | -048 | 004  |
| 19 |    | 289  | -004 | 115  | 274 | -086 | 114  | -064 | -032 |
| 20 |    | 286  | -076 | 058  | 204 | -108 | 056  | -024 | -021 |
| 21 |    | 156  | -062 | 006  | 129 | -019 | 086  | 004  | -009 |
| 22 | ** | 142  | -084 | -041 | 219 | -072 | 125  | 014  | -003 |
| 23 | ** | -011 | -185 | -002 | 087 | -007 | -099 | -094 | -052 |
| 24 | ** | -068 | -062 | 101  | 185 | -038 | 096  | 011  | 067  |
| 25 | ** | 022  | -022 | 045  | 091 | -103 | -007 | -085 | -017 |
| 26 | ** | -088 | -059 | 037  | 200 | -035 | 104  | 081  | -059 |
| 27 |    | 072  | 032  | -044 | 190 | -046 | 107  | -033 | 031  |
| 28 |    | 130  | 023  | 009  | 190 | -027 | 029  | -042 | -013 |
|    |    | 198  | -113 | 130  | 167 | -013 | 097  | -020 | 000  |
|    | *  | 261  | -123 | 195  | 138 | 002  | 123  | -014 | 009  |

|    |    | A1   | B1   | A2  | B2   | A3   | B3  | A4   | B4   |
|----|----|------|------|-----|------|------|-----|------|------|
| 1  | *  | 010  | -152 | 162 | 011  | 061  | 066 | 002  | 016  |
| 2  |    | -007 | -164 | 202 | 017  | 075  | 102 | -032 | 022  |
| 3  |    | -004 | -220 | 222 | 020  | 069  | 107 | -012 | 038  |
| 4  |    | -004 | -188 | 201 | 041  | 074  | 085 | -024 | 053  |
| 5  | *  | 015  | -156 | 178 | 035  | 030  | 088 | -005 | 009  |
| 6  | *  | 056  | -171 | 151 | 056  | 016  | 073 | -011 | 018  |
| 7  | *  | 019  | -218 | 152 | 001  | 054  | 065 | 007  | 016  |
| 8  |    | 063  | -131 | 114 | 019  | 027  | 048 | -017 | -001 |
| 9  |    | -063 | -214 | 196 | -015 | 066  | 080 | -017 | 074  |
| 10 |    | -034 | -147 | 078 | -003 | 050  | 022 | 005  | -010 |
| 11 |    | -071 | -112 | 116 | -084 | 060  | 000 | 022  | 006  |
| 12 |    | -039 | -146 | 188 | -054 | 074  | 042 | -008 | 010  |
| 13 | *  | -031 | -189 | 185 | -094 | 122  | 073 | 016  | 053  |
| 14 |    | 017  | -221 | 215 | 057  | 047  | 098 | -025 | 000  |
| 15 |    | 004  | -204 | 190 | 054  | 049  | 074 | -014 | -002 |
| 16 |    | 017  | -164 | 216 | 137  | 022  | 098 | -021 | 013  |
| 17 |    | 036  | -214 | 191 | 095  | 029  | 074 | -016 | -014 |
| 18 |    | 078  | -157 | 166 | 117  | 023  | 095 | -007 | 039  |
| 19 |    | 048  | -148 | 175 | 120  | 008  | 099 | -026 | 038  |
| 20 |    | 064  | -126 | 112 | 104  | -015 | 080 | -019 | 026  |
| 21 |    | -003 | -101 | 036 | 043  | 042  | 061 | -005 | 010  |
| 22 | ** |      |      |     |      |      |     |      |      |
| 23 | ** |      |      |     |      |      |     |      |      |
| 24 | ** |      |      |     |      |      |     |      |      |
| 25 | ** |      |      |     |      |      |     |      |      |
| 26 | ** |      |      |     |      |      |     |      |      |
| 27 |    |      |      |     |      |      |     |      |      |
| 28 |    |      |      |     |      |      |     |      |      |
|    |    | 007  | -168 | 163 | 034  | 047  | 072 | -010 | 021  |
|    | *  | 014  | -177 | 166 | 002  | 057  | 072 | 003  | 024  |



WATHEROO  
MARCH 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0353-1-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 22 | 1  |     | 861 | 859 | 861 |     | 861 | 855 | 848 |     | 845 | 856 | 850 |     | 845 | 846 | 848 |     | 850 | 856 | 864 |     | 866 | 870 | 870 |     | 871 | 881 | 871 | 0   | 860 |     |     |     |     |
|    | 2  | **  | 861 | 855 | 849 |     | 834 | 834 | 839 |     | 846 | 836 | 819 |     | 801 | 791 | 804 |     | 771 | 798 | 818 |     | 791 | 850 | 812 |     | 829 | 842 | 832 | 842 | 854 | 882 | 1   | 829 |     |
|    | 3  |     | 888 | 875 | 871 |     | 858 | 870 | 878 |     | 875 | 868 | 870 |     | 859 | 848 | 851 |     | 861 | 867 | 869 |     | 868 | 863 | 866 |     | 869 | 868 | 870 | 872 | 866 | 869 | 0   | 867 |     |
|    | 4  |     | 864 | 858 | 850 |     | 856 | 854 | 854 |     | 854 | 858 | 861 |     | 865 | 867 | 869 |     | 868 | 867 | 866 |     | 873 | 870 | 879 |     | 876 | 874 | 874 | 878 | 880 | 881 | 0   | 867 |     |
|    | 5  |     | 878 | 871 | 864 |     | 862 | 865 | 855 |     | 857 | 859 | 863 |     | 869 | 871 | 875 |     | 873 | 871 | 874 |     | 877 | 872 | 871 |     | 872 | 875 | 877 | 876 | 879 | 880 | 0   | 870 |     |
|    | 6  |     | 881 | 878 | 875 |     | 873 | 875 | 878 |     | 881 | 871 | 867 |     | 867 | 869 | 873 |     | 873 | 872 | 876 |     | 880 | 877 | 882 |     | 878 | 878 | 884 | 887 | 885 | 871 | 0   | 876 |     |
|    | 7  |     | 866 | 874 | 865 |     | 870 | 861 | 841 |     | 833 | 829 | 836 |     | 845 | 846 | 849 |     | 859 | 858 | 852 |     | 855 | 857 | 860 |     | 881 | 872 | 867 | 866 | 869 | 874 | 0   | 858 |     |
|    | 8  |     | 875 | 874 | 870 |     | 864 | 862 | 864 |     | 867 | 867 | 867 |     | 859 | 856 | 861 |     | 867 | 865 | 861 |     | 843 | 846 | 846 |     | 852 | 859 | 888 | 879 | 859 | 856 | 1   | 863 |     |
|    | 9  | **  | 833 | 825 | 817 |     | 808 | 804 | 802 |     | 809 | 827 | 837 |     | 841 | 840 | 838 |     | 833 | 828 | 834 |     | 854 | 856 | 848 |     | 849 | 858 | 859 | 868 | 855 | 858 | 1   | 837 |     |
|    | 10 |     | 851 | 848 | 844 |     | 836 | 829 | 822 |     | 827 | 832 | 832 |     | 839 | 844 | 838 |     | 846 | 839 | 848 |     | 851 | 863 | 854 |     | 853 | 858 | 861 | 861 | 864 | 864 | 1   | 846 |     |
|    | 11 | *   | 853 | 853 | 853 |     | 857 | 853 | 848 |     | 845 | 848 | 851 |     | 856 | 858 | 861 |     | 861 | 858 | 860 |     | 861 | 862 | 864 |     | 867 | 868 | 869 |     | 871 | 871 | 871 | 0   | 859 |
|    | 12 | *   | 866 | 863 | 865 |     | 863 | 862 | 857 |     | 861 | 865 | 869 |     | 871 | 872 | 868 |     | 864 | 864 | 869 |     | 867 | 869 | 870 |     | 871 | 877 | 878 |     | 880 | 879 | 879 | 0   | 869 |
|    | 13 | *   | 875 | 870 | 864 |     | 867 | 870 | 874 |     | 872 | 871 | 868 |     | 870 | 873 | 874 |     | 874 | 872 | 874 |     | 873 | 873 | 875 |     | 878 | 881 | 882 |     | 883 | 893 | 897 | 0   | 875 |
|    | 14 |     | 888 | 877 | 876 |     | 878 | 880 | 881 |     | 885 | 888 | 888 |     | 883 | 884 | 884 |     | 878 | 869 | 873 |     | 875 | 876 | 876 |     | 881 | 883 | 879 |     | 882 | 886 | 886 | 0   | 881 |
|    | 15 |     | 879 | 874 | 872 |     | 870 | 870 | 873 |     | 871 | 872 | 879 |     | 866 | 872 | 863 |     | 858 | 853 | 858 |     | 864 | 865 | 875 |     | 870 | 870 | 873 |     | 877 | 878 | 875 | 0   | 870 |
|    | 16 |     | 865 | 857 | 858 |     | 849 | 857 | 859 |     | 863 | 866 | 868 |     | 867 | 873 | 874 |     | 869 | 870 | 870 |     | 874 | 878 | 873 |     | 873 | 875 | 875 |     | 876 | 872 | 870 | 0   | 868 |
|    | 17 | *   | 862 | 860 | 850 |     | 848 | 854 | 861 |     | 865 | 866 | 873 |     | 879 | 878 | 879 |     | 878 | 876 | 875 |     | 876 | 873 | 872 |     | 874 | 876 | 876 |     | 876 | 876 | 876 | 0   | 870 |
|    | 18 | *   | 872 | 866 | 861 |     | 860 | 855 | 853 |     | 856 | 866 | 875 |     | 883 | 885 | 879 |     | 874 | 874 | 874 |     | 875 | 877 | 879 |     | 881 | 888 | 894 |     | 893 | 891 | 891 | 0   | 875 |
|    | 19 |     | 885 | 872 | 867 |     | 853 | 844 | 848 |     | 859 | 867 | 870 |     | 867 | 867 | 846 |     | 838 | 849 | 866 |     | 881 | 854 | 867 |     | 864 | 870 | 873 |     | 875 | 866 | 867 | 0   | 863 |
|    | 20 |     | 865 | 858 | 855 |     | 858 | 852 | 848 |     | 849 | 852 | 850 |     | 854 | 853 | 859 |     | 861 | 864 | 866 |     | 867 | 868 | 869 |     | 872 | 886 | 881 |     | 881 | 874 | 875 | 0   | 863 |
|    | 21 |     | 869 | 860 | 820 |     | 827 | 838 | 834 |     | 839 | 841 | 834 |     | 850 | 850 | 848 |     | 859 | 857 | 859 |     | 864 | 871 | 864 |     | 870 | 864 | 856 |     | 851 | 856 | 854 | 0   | 851 |
|    | 22 |     | 849 | 829 | 847 |     | 861 | 857 | 839 |     | 845 | 853 | 849 |     | 843 | 845 | 837 |     | 844 | 849 | 865 |     | 862 | 859 | 856 |     | 856 | 862 | 864 |     | 880 | 867 | 867 | 0   | 854 |
|    | 23 | **  | 869 | 865 | 849 |     | 817 | 837 | 841 |     | 829 | 852 | 848 |     | 835 | 829 | 843 |     | 833 | 856 | 871 |     | 910 | 877 | 876 |     | 862 | 890 | 866 |     | 856 | 855 | 857 | 1   | 855 |
|    | 24 | **  | 855 | 853 | 829 |     | 839 | 825 | 847 |     | 847 | 806 | 838 |     | 808 | 821 | 847 |     | 837 | 838 | 855 |     | 846 | 856 | 860 |     | 886 | 883 | 876 |     | 849 | 861 | 854 | 1   | 847 |
|    | 25 | **  | 842 | 820 | 829 |     | 822 | 831 | 840 |     | 841 | 819 | 801 |     | 818 | 837 | 828 |     | 839 | 835 | 850 |     | 870 | 849 | 861 |     | 872 | 849 | 843 |     | 840 | 845 | 853 | 1   | 839 |
|    | 26 |     | 849 | 848 | 847 |     | 839 | 834 | 840 |     | 839 | 845 | 849 |     | 853 | 855 | 855 |     | 859 | 858 | 865 |     | 866 | 871 | 860 |     | 858 | 859 | 861 |     | 873 | 872 | 867 | 0   | 855 |
|    | 27 |     | 859 | 858 | 852 |     | 841 | 825 | 841 |     | 840 | 831 | 824 |     | 839 | 843 | 858 |     | 842 | 853 | 855 |     | 863 | 861 | 856 |     | 859 | 866 | 866 |     | 863 | 858 | 860 | 0   | 851 |
|    | 28 |     | 859 | 854 | 847 |     | 838 | 852 | 855 |     | 836 | 832 | 824 |     | 827 | 840 | 841 |     | 834 | 838 | 848 |     | 853 | 868 | 854 |     | 863 | 859 | 856 |     | 857 | 861 | 862 | 0   | 848 |
|    | 29 |     | 858 | 863 | 876 |     | 875 | 867 | 857 |     | 854 | 848 | 848 |     | 853 | 859 | 864 |     | 865 | 865 | 864 |     | 862 | 863 | 862 |     | 863 | 861 | 865 |     | 873 | 874 | 875 | 0   | 863 |
|    | 30 |     | 877 | 874 | 866 |     | 867 | 852 | 851 |     | 863 | 866 | 861 |     | 862 | 861 | 858 |     | 855 | 851 | 846 |     | 850 | 850 | 856 |     | 864 | 880 | 888 |     | 887 | 876 | 874 | 0   | 864 |
|    | 31 |     | 868 | 869 | 880 |     | 876 | 872 | 868 |     | 872 | 872 | 874 |     | 871 | 870 | 870 |     | 862 | 861 | 857 |     | 860 | 862 | 863 |     | 865 | 873 | 880 |     | 884 | 870 | 870 | 0   | 870 |
|    | *  | 865 | 860 | 856 |     | 852 | 851 | 851 |     | 852 | 853 | 853 |     | 853 | 855 | 856 |     | 854 | 856 | 861 |     | 864 | 865 | 864 |     | 867 | 870 | 870 |     | 871 | 870 | 871 |     | 860 |     |
|    | ** | 866 | 862 | 859 |     | 859 | 859 | 859 |     | 860 | 863 | 867 |     | 872 | 873 | 872 |     | 870 | 869 | 870 |     | 870 | 871 | 872 |     | 874 | 878 | 880 |     | 881 | 882 | 883 |     | 870 |     |
|    |    | 852 | 844 | 835 |     | 824 | 826 | 834 |     | 834 | 828 | 829 |     | 821 | 824 | 832 |     | 823 | 831 | 846 |     | 854 | 858 | 851 |     | 860 | 864 | 855 |     | 851 | 854 | 861 |     | 841 |     |

WATHEROO  
MARCH 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  |    | 484 | 499 | 504 | 505 | 491 | 468 | 452 | 443 | 450 | 464 | 460 | 466 | 466 | 467 | 472 | 471 | 474 | 473  | 473  | 473  | 463 | 461 | 470 | 482 | 0 | 472 |
| 2  | ** | 493 | 498 | 513 | 492 | 461 | 435 | 428 | 436 | 425 | 439 | 452 | 493 | 498 | 501 | 515 | 528 | 496 | 537  | 534  | 524  | 514 | 514 | 526 | 527 | 1 | 491 |
| 3  |    | 524 | 510 | 521 | 489 | 456 | 431 | 423 | 424 | 436 | 443 | 454 | 481 | 466 | 462 | 463 | 471 | 474 | 472  | 472  | 472  | 462 | 466 | 472 | 483 | 0 | 468 |
| 4  |    | 496 | 503 | 492 | 493 | 491 | 479 | 464 | 451 | 451 | 451 | 454 | 462 | 463 | 466 | 473 | 476 | 474 | 474  | 473  | 473  | 474 | 477 | 480 | 486 | 0 | 474 |
| 5  |    | 497 | 507 | 503 | 490 | 476 | 463 | 451 | 446 | 447 | 452 | 462 | 462 | 463 | 466 | 474 | 472 | 479 | 482  | 482  | 479  | 470 | 462 | 472 | 484 | 0 | 473 |
| 6  |    | 491 | 492 | 492 | 491 | 481 | 471 | 457 | 451 | 451 | 451 | 459 | 463 | 464 | 465 | 472 | 472 | 472 | 473  | 477  | 474  | 475 | 472 | 459 | 460 | 0 | 470 |
| 7  |    | 444 | 449 | 490 | 505 | 495 | 479 | 457 | 440 | 443 | 455 | 465 | 472 | 479 | 480 | 481 | 480 | 480 | 479  | 461  | 486  | 476 | 475 | 476 | 481 | 0 | 472 |
| 8  |    | 483 | 497 | 501 | 491 | 479 | 468 | 461 | 453 | 454 | 461 | 463 | 468 | 467 | 471 | 493 | 493 | 515 | 493  | 479  | 468  | 439 | 429 | 402 | 399 | 1 | 468 |
| 9  | ** | 451 | 478 | 493 | 495 | 484 | 471 | 454 | 451 | 453 | 462 | 465 | 514 | 481 | 480 | 491 | 488 | 479 | 490  | 478  | 477  | 426 | 462 | 420 | 434 | 1 | 470 |
| 10 |    | 446 | 469 | 483 | 486 | 480 | 471 | 469 | 458 | 455 | 462 | 465 | 483 | 493 | 483 | 474 | 476 | 483 | 493  | 483  | 477  | 483 | 465 | 467 | 472 | 1 | 474 |
| 11 | *  | 480 | 479 | 485 | 481 | 471 | 462 | 461 | 461 | 462 | 462 | 463 | 464 | 467 | 467 | 471 | 472 | 472 | 472  | 472  | 472  | 473 | 473 | 479 | 483 | 0 | 471 |
| 12 | *  | 483 | 484 | 492 | 483 | 471 | 461 | 452 | 452 | 450 | 453 | 461 | 461 | 464 | 464 | 472 | 466 | 472 | 472  | 470  | 474  | 481 | 478 | 483 | 489 | 0 | 470 |
| 13 | *  | 495 | 496 | 494 | 488 | 472 | 462 | 452 | 449 | 453 | 456 | 461 | 461 | 462 | 462 | 465 | 466 | 470 | 471  | 472  | 472  | 471 | 467 | 472 | 484 | 0 | 470 |
| 14 |    | 492 | 486 | 491 | 483 | 460 | 450 | 445 | 449 | 451 | 451 | 452 | 454 | 457 | 460 | 464 | 470 | 472 | 481  | 486  | 492  | 483 | 492 | 483 | 489 | 0 | 471 |
| 15 |    | 497 | 505 | 500 | 486 | 465 | 455 | 443 | 452 | 449 | 436 | 452 | 469 | 483 | 469 | 471 | 471 | 472 | 472  | 482  | 482  | 482 | 483 | 487 | 494 | 0 | 473 |
| 16 |    | 498 | 504 | 497 | 478 | 451 | 436 | 431 | 431 | 435 | 446 | 460 | 462 | 469 | 465 | 470 | 472 | 470 | 470  | 470  | 472  | 471 | 461 | 482 | 496 | 0 | 467 |
| 17 | *  | 508 | 506 | 492 | 465 | 448 | 438 | 433 | 441 | 451 | 454 | 462 | 463 | 465 | 466 | 470 | 473 | 471 | 472  | 466  | 468  | 472 | 472 | 478 | 487 | 0 | 468 |
| 18 | *  | 504 | 524 | 524 | 502 | 474 | 451 | 438 | 433 | 437 | 450 | 457 | 460 | 462 | 464 | 468 | 470 | 470 | 472* | 472* | 472* | 480 | 481 | 484 | 489 | 0 | 472 |
| 19 |    | 502 | 508 | 503 | 491 | 472 | 450 | 426 | 415 | 424 | 439 | 455 | 461 | 482 | 474 | 483 | 491 | 491 | 493  | 485  | 484  | 480 | 475 | 465 | 483 | 0 | 472 |
| 20 |    | 495 | 496 | 507 | 492 | 472 | 454 | 448 | 446 | 448 | 455 | 466 | 469 | 468 | 469 | 469 | 469 | 470 | 473  | 470  | 478  | 462 | 472 | 481 | 483 | 0 | 471 |
| 21 |    | 492 | 512 | 496 | 480 | 476 | 449 | 433 | 431 | 445 | 448 | 462 | 503 | 472 | 471 | 473 | 474 | 483 | 495  | 492  | 441  | 453 | 474 | 484 | 490 | 0 | 472 |
| 22 |    | 492 | 490 | 477 | 460 | 453 | 444 | 448 | 441 | 448 | 470 | 474 | 473 | 472 | 472 | 479 | 475 | 473 | 473  | 472  | 474  | 462 | 453 | 485 | 503 | 0 | 469 |
| 23 | ** | 510 | 516 | 502 | 466 | 460 | 450 | 441 | 440 | 441 | 453 | 499 | 474 | 477 | 476 | 471 | 446 | 471 | 484  | 441  | 480  | 488 | 482 | 485 | 495 | 1 | 473 |
| 24 | ** | 495 | 487 | 457 | 461 | 463 | 456 | 438 | 441 | 452 | 490 | 482 | 513 | 502 | 485 | 472 | 484 | 472 | 484  | 463  | 479  | 491 | 461 | 446 | 478 | 1 | 473 |
| 25 | ** | 476 | 478 | 469 | 467 | 469 | 454 | 451 | 452 | 465 | 467 | 495 | 488 | 505 | 491 | 493 | 488 | 481 | 481  | 467  | 472  | 474 | 472 | 481 | 488 | 1 | 476 |
| 26 |    | 498 | 496 | 493 | 483 | 469 | 459 | 450 | 452 | 456 | 458 | 469 | 503 | 475 | 481 | 481 | 462 | 473 | 483  | 470  | 466  | 452 | 444 | 462 | 476 | 0 | 471 |
| 27 |    | 485 | 483 | 484 | 474 | 470 | 464 | 460 | 455 | 450 | 464 | 514 | 515 | 477 | 479 | 476 | 474 | 473 | 473  | 471  | 465  | 452 | 461 | 464 | 483 | 0 | 474 |
| 28 |    | 495 | 496 | 483 | 481 | 475 | 466 | 452 | 450 | 453 | 493 | 467 | 482 | 491 | 486 | 477 | 476 | 494 | 472  | 483  | 483  | 461 | 472 | 482 | 481 | 0 | 477 |
| 29 |    | 466 | 455 | 462 | 462 | 460 | 456 | 456 | 459 | 460 | 458 | 463 | 464 | 466 | 467 | 468 | 471 | 472 | 472  | 471  | 470  | 460 | 468 | 473 | 485 | 0 | 465 |
| 30 |    | 493 | 490 | 476 | 460 | 452 | 451 | 455 | 454 | 462 | 464 | 467 | 471 | 472 | 481 | 476 | 481 | 469 | 472  | 452  | 461  | 468 | 489 | 486 | 494 | 0 | 471 |
| 31 |    | 499 | 490 | 476 | 465 | 457 | 452 | 448 | 451 | 454 | 458 | 460 | 462 | 474 | 472 | 469 | 469 | 470 | 470  | 471  | 467  | 472 | 481 | 485 | 488 | 0 | 469 |
|    | *  | 489 | 493 | 492 | 482 | 469 | 457 | 448 | 445 | 449 | 457 | 466 | 475 | 474 | 473 | 476 | 476 | 477 | 480  | 475  | 475  | 470 | 471 | 473 | 482 |   | 472 |
|    | ** | 494 | 498 | 497 | 484 | 467 | 455 | 447 | 447 | 451 | 455 | 461 | 462 | 464 | 465 | 469 | 469 | 471 | 472  | 470  | 472  | 475 | 474 | 479 | 486 |   | 470 |
|    | ** | 485 | 491 | 487 | 476 | 467 | 453 | 442 | 444 | 447 | 462 | 479 | 496 | 493 | 487 | 488 | 487 | 480 | 495  | 477  | 486  | 479 | 478 | 472 | 484 |   | 476 |

WATHEROO  
MARCH 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0353-3-3

|    |    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |      |     |     |
|----|----|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 24 | 1  |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0   |      |     |     |
|    | 2  | **   |      |      |      |      |      |      | 076 | 099 | 139 | 151 | 164 | 178 | 166 | 155 | 161 | 117 | 139 | 124 | 107 | 101 | 101 | 107 | 101 | 1   | 129* |     |     |
|    | 3  |      | 093  | 097  | 103  | 086  | 065  | 042  | 051 | 073 | 086 | 099 | 111 | 126 | 114 | 111 | 110 | 111 | 112 | 107 | 104 | 103 | 097 | 099 | 105 | 111 | 0    | 097 |     |
|    | 4  |      | 121  | 118  | 105  | 099  | 096  | 086  | 079 | 080 | 085 | 091 | 097 | 101 | 109 | 110 | 112 | 109 | 106 | 101 | 097 | 098 | 098 | 099 | 107 | 0   | 100  |     |     |
|    | 5  |      | 120  | 121  | 114  | 105  | 090  | 088  | 083 | 087 | 093 | 100 | 106 | 106 | 107 | 110 | 113 | 109 | 112 | 112 | 108 | 104 | 098 | 096 | 102 | 107 | 0    | 104 |     |
|    | 6  |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |
|    | 7  |      | 108  | 109  | 109  | 106  | 099  | 093  | 087 | 093 | 099 | 103 | 106 | 107 | 107 | 109 | 111 | 108 | 108 | 105 | 106 | 105 | 101 | 099 | 093 | 104 | 0    | 103 |     |
|    | 8  |      | 111  | 112  | 131  | 131  | 117  | 104  | 099 | 099 | 107 | 113 | 123 | 124 | 123 | 123 | 124 | 121 | 119 | 116 | 098 | 113 | 107 | 106 | 109 | 109 | 0    | 114 |     |
|    | 9  | **   | 116  | 120  | 117  | 109  | 098  | 092  | 091 | 094 | 105 | 112 | 116 | 117 | 114 | 116 | 127 | 131 | 138 | 121 | 112 | 106 | 083 | 085 | 082 | 081 | 1    | 108 |     |
|    | 10 |      | 120  | 121  | 123  | 121  | 112  | 108  | 105 | 104 | 108 | 118 | 122 | 149 | 130 | 130 | 130 | 123 | 115 | 122 | 117 | 113 | 092 | 108 | 092 | 101 | 1    | 116 |     |
|    |    |      | 114  | 124  | 124  | 119  | 114  | 115  | 117 | 115 | 119 | 124 | 125 | 133 | 136 | 134 | 125 | 125 | 121 | 131 | 125 | 119 | 117 | 117 | 117 | 121 | 1    | 122 |     |
|    | 11 | *    | 129  | 129  | 128  | 118  | 114  | 113  | 116 | 121 | 122 | 122 | 124 | 125 | 126 | 126 | 129 | 128 | 125 | 125 | 125 | 123 | 122 | 123 | 128 | 128 | 0    | 124 |     |
|    | 12 | *    | 131  | 128  | 123  | 111  | 103  | 102  | 104 | 110 | 119 | 125 | 126 | 126 | 128 | 129 | 130 | 127 | 126 | 127 | 125 | 125 | 125 | 127 | 127 | 128 | 133  | 0   | 122 |
|    | 13 |      | 136  | 135  | 123  | 104  | 095  | 094  | 098 | 105 | 114 | 120 | 121 | 124 | 125 | 126 | 126 | 125 | 124 | 123 | 123 | 122 | 121 | 122 | 120 | 122 | 0    | 119 |     |
|    | 14 |      | 130  | 128  | 122  | 110  | 101  | 101  | 104 | 110 | 115 | 119 | 123 | 126 | 130 | 133 | 132 | 130 | 130 | 130 | 128 | 128 | 125 | 125 | 124 | 124 | 0    | 122 |     |
|    | 15 |      | 134  | 130  | 115  | 102  | 098  | 101  | 104 | 113 | 114 | 120 | 128 | 142 | 156 | 145 | 142 | 136 | 135 | 133 | 133 | 131 | 131 | 131 | 135 | 138 | 0    | 127 |     |
|    | 16 |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |
|    | 17 | *    | 139  | 135  | 120  | 106  | 100  | 099  | 100 | 102 | 113 | 123 | 130 | 130 | 137 | 136 | 136 | 135 | 129 | 129 | 127 | 127 | 126 | 124 | 136 | 144 | 0    | 124 |     |
|    | 18 | *    | 147  | 140  | 118  | 097  | 093  | 092  | 096 | 109 | 120 | 123 | 129 | 130 | 134 | 136 | 138 | 136 | 132 | 133 | 129 | 126 | 129 | 130 | 133 | 141 | 0    | 125 |     |
|    | 19 | *    | 151  | 147  | 130  | 105  | 095  | 092  | 094 | 100 | 110 | 119 | 125 | 130 | 137 | 139 | 139 | 139 | 134 | 132 | 130 | 126 | 125 | 126 | 132 | 137 | 0    | 125 |     |
|    | 20 |      | 141  | 139  | 131  | 118  | 108  | 100  | 095 | 096 | 110 | 123 | 131 | 142 | 161 | 152 | 145 | 139 | 146 | 141 | 132 | 129 | 124 | 124 | 124 | 131 | 0    | 128 |     |
|    |    |      | 138  | 138  | 138  | 121  | 108  | 108  | 111 | 117 | 123 | 129 | 136 | 137 | 137 | 137 | 137 | 136 | 136 | 136 | 130 | 123 | 120 | 121 | 123 | 127 | 0    | 128 |     |
|    | 21 |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |
|    | 22 |      | 134  | 141  | 137  | 123  | 121  | 113  | 110 | 116 | 135 | 135 | 137 | 161 | 138 | 137 | 137 | 139 | 139 | 143 | 138 | 113 | 119 | 130 | 134 | 130 | 0    | 132 |     |
|    | 23 | **   | 131  | 127  | 117  | 108  | 108  | 115  | 121 | 118 | 124 | 137 | 140 | 139 | 136 | 136 | 135 | 130 | 130 | 130 | 130 | 131 | 123 | 115 | 129 | 134 | 0    | 127 |     |
|    | 24 | **   | 133  | 131  | 124  | 119  | 114  | 112  | 118 | 118 | 126 | 141 | 168 | 146 | 149 | 138 | 128 | 113 | 129 | 142 | 116 | 124 | 130 | 125 | 130 | 130 | 1    | 129 |     |
|    | 25 | **   | 123  | 118  | 112  | 111  | 109  | 104  | 102 | 125 | 130 | 162 | 157 | 155 | 146 | 138 | 124 | 132 | 124 | 124 | 117 | 117 | 118 | 111 | 096 | 110 | 1    | 124 |     |
|    |    |      | 106  | 112  | 106  | 110  | 113  | 113  | 117 | 132 | 151 | 146 | 154 | 146 | 151 | 142 | 136 | 123 | 127 | 127 | 113 | 123 | 121 | 126 | 130 | 130 | 1    | 127 |     |
|    | 26 |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |
|    | 27 |      | 138  | 134  | 123  | 115  | 112  | 109  | 110 | 121 | 125 | 130 | 136 | 151 | 133 | 133 | 127 | 121 | 124 | 129 | 125 | 125 | 118 | 108 | 120 | 121 | 0    | 125 |     |
|    | 28 |      | 137  | 131  | 126  | 120  | 118  | 116  | 115 | 121 | 130 | 138 | 163 | 152 | 137 | 135 | 133 | 129 | 129 | 132 | 131 | 127 | 124 | 133 | 133 | 141 | 0    | 131 |     |
| 29 |    | 135  | 131  | 120  | 116  | 108  | 101  | 102  | 112 | 128 | 153 | 142 | 147 | 151 | 145 | 137 | 129 | 133 | 127 | 127 | 128 | 120 | 128 | 131 | 129 | 0   | 128  |     |     |
| 30 |    | 120  | 118  | 120  | 120  | 120  | 120  | 121  | 126 | 130 | 131 | 136 | 135 | 136 | 136 | 135 | 134 | 133 | 133 | 130 | 130 | 126 | 128 | 132 | 133 | 0   | 128  |     |     |
| 31 |    | 125  | 115  | 107  | 100  | 105  | 106  | 109  | 113 | 122 | 124 | 128 | 129 | 135 | 139 | 135 | 135 | 128 | 124 | 112 | 112 | 113 | 121 | 123 | 128 | 0   | 120  |     |     |
|    |    | 129  | 116  | 107  | 104  | 107  | 108  | 108  | 113 | 116 | 122 | 127 | 130 | 139 | 136 | 135 | 131 | 129 | 129 | 129 | 124 | 120 | 122 | 128 | 130 | 0   | 122  |     |     |
|    |    |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |
|    | *  | 127  | 126  | 120  | 111  | 105  | 102  | 102  | 107 | 116 | 125 | 131 | 134 | 135 | 133 | 131 | 128 | 126 | 127 | 121 | 119 | 116 | 117 | 119 | 123 |     | 121  |     |     |
|    | ** | 139  | 136  | 124  | 107  | 100  | 099  | 102  | 109 | 117 | 122 | 125 | 127 | 130 | 131 | 132 | 131 | 128 | 128 | 126 | 124 | 124 | 126 | 128 | 132 |     | 123  |     |     |
|    |    | 121* | 121* | 116* | 115* | 112* | 109* | 111* | 111 | 123 | 141 | 150 | 152 | 151 | 143 | 135 | 130 | 122 | 131 | 117 | 117 | 112 | 114 | 111 | 114 |     | 124  |     |     |

WATHEROO  
MARCH 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0353-1-3

WATHEROO  
MARCH 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0353-2-3

WATHEROO  
MARCH 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0353-3-3

25

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 082  | -094 | 000  | 002  | 017  | -021 | -025 | -011 |
| 2  | ** | 306  | 034  | -037 | -010 | 109  | -026 | 044  | 010  |
| 3  |    | 065  | 006  | -022 | 017  | 040  | -033 | 015  | 050  |
| 4  |    | 005  | -107 | 024  | -048 | 013  | -008 | 017  | -031 |
| 5  |    | 015  | -074 | 055  | -011 | 006  | 003  | -001 | -013 |
| 6  |    | 040  | -036 | -015 | 001  | -004 | -025 | 006  | -004 |
| 7  |    | 121  | -105 | 044  | 041  | -056 | 043  | 005  | 000  |
| 8  |    | 055  | 044  | 038  | -038 | -044 | -034 | -032 | 069  |
| 9  | ** | 013  | -211 | 046  | -123 | 054  | 017  | -036 | -035 |
| 10 |    | 064  | -143 | 045  | -025 | 025  | 015  | -013 | -021 |
| 11 | *  | 024  | -087 | 024  | -028 | -020 | -005 | -006 | -028 |
| 12 | *  | 023  | -052 | 019  | -053 | 004  | 001  | -020 | -017 |
| 13 | *  | 043  | -050 | 025  | -045 | 010  | -040 | 029  | -024 |
| 14 |    | 016  | 027  | 003  | -051 | 017  | 004  | 019  | -007 |
| 15 |    | 065  | 020  | -014 | -042 | 025  | 020  | 004  | -015 |
| 16 |    | -033 | -079 | 007  | -046 | 015  | -008 | 007  | -011 |
| 17 | *  | -064 | -077 | 033  | -069 | 016  | -018 | 011  | -009 |
| 18 | *  | 007  | -116 | 058  | -102 | 005  | 010  | -023 | -024 |
| 19 |    | 063  | -044 | 009  | -045 | 088  | 035  | -059 | 031  |
| 20 |    | 056  | -131 | 013  | -033 | -017 | -017 | -011 | 006  |
| 21 |    | -016 | -154 | 024  | -005 | 047  | 015  | 057  | 012  |
| 22 |    | -052 | -086 | -024 | -024 | 007  | -064 | -059 | -042 |
| 23 | ** | 029  | -215 | -042 | 046  | 113  | 003  | -032 | 053  |
| 24 | ** | 106  | -197 | -049 | -009 | -037 | -007 | 070  | 047  |
| 25 | ** | 020  | -171 | -049 | 045  | 011  | -032 | 078  | -041 |
| 26 |    | -007 | -128 | 046  | -030 | 034  | -024 | -020 | -031 |
| 27 |    | 055  | -141 | 039  | 011  | -002 | 005  | 009  | 008  |
| 28 |    | 101  | -103 | -019 | 030  | 008  | -008 | 041  | -042 |
| 29 |    | 056  | -033 | 038  | 037  | -041 | -013 | -014 | -035 |
| 30 |    | 118  | -020 | 032  | -094 | -018 | 010  | -022 | 034  |
| 31 |    | 050  | 032  | -003 | -045 | -030 | 007  | -033 | -001 |
|    | *  | 049  | -082 | 011  | -024 | 016  | -005 | 000  | -003 |
|    | *  | 008  | -076 | 031  | -060 | 003  | -011 | -002 | -021 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  |    | 121  | 007  | 038  | 147 | -048 | 077  | -020 | -023 |
| 2  | ** | 172  | -418 | 103  | 134 | -063 | 029  | 004  | 001  |
| 3  |    | 187  | -097 | 178  | 167 | -019 | 160  | 001  | 024  |
| 4  |    | 160  | -010 | 022  | 117 | -016 | 009  | 008  | -010 |
| 5  |    | 143  | -052 | 042  | 135 | -012 | 093  | 011  | 017  |
| 6  |    | 102  | -021 | -002 | 113 | -051 | 051  | -015 | 021  |
| 7  |    | 032  | -056 | -019 | 111 | -132 | -046 | -040 | -095 |
| 8  |    | -103 | -009 | -116 | 286 | -013 | 183  | -032 | 059  |
| 9  | ** | -126 | -009 | -029 | 201 | -113 | 104  | 002  | -006 |
| 10 |    | -026 | -065 | -030 | 072 | -094 | 010  | 020  | -017 |
| 11 | *  | 078  | -028 | 030  | 040 | 002  | 017  | -014 | -004 |
| 12 | *  | 133  | -055 | 051  | 056 | -021 | 017  | -017 | -011 |
| 13 | *  | 137  | -020 | 054  | 086 | -009 | 067  | -001 | 007  |
| 14 |    | 181  | -123 | 032  | 028 | -012 | 054  | -023 | 017  |
| 15 |    | 172  | -097 | 100  | 090 | -034 | 033  | 013  | 046  |
| 16 |    | 156  | -116 | 152  | 115 | 004  | 089  | 002  | 017  |
| 17 | *  | 133  | -102 | 149  | 074 | 045  | 088  | -013 | 034  |
| 18 | *  | 237  | -055 | 122  | 152 | -041 | 101  | -048 | 011  |
| 19 |    | 152  | -190 | 087  | 213 | -060 | 097  | -003 | -001 |
| 20 |    | 133  | -035 | 091  | 107 | -029 | 075  | -011 | 000  |
| 21 |    | 096  | -093 | 139  | 156 | -008 | 111  | 063  | -069 |
| 22 |    | 054  | -094 | 139  | 052 | 047  | 064  | 040  | -007 |
| 23 | ** | 144  | -066 | 203  | 044 | -033 | 083  | 017  | 007  |
| 24 | ** | -073 | -099 | 145  | 029 | -064 | 087  | 046  | 000  |
| 25 | ** | -062 | -098 | 129  | 048 | -019 | 003  | 011  | -031 |
| 26 |    | 013  | -008 | 107  | 134 | -020 | 103  | 064  | 022  |
| 27 |    | -049 | -001 | 128  | 064 | -043 | 084  | 070  | -057 |
| 28 |    | 026  | -060 | 091  | 078 | -014 | 064  | 020  | -015 |
| 29 |    | 014  | -067 | 020  | 004 | 023  | -008 | 020  | -027 |
| 30 |    | 061  | -067 | 141  | 026 | 063  | -015 | -012 | -002 |
| 31 |    | 104  | -081 | 109  | 033 | 029  | 016  | 015  | 015  |
|    | *  | 080  | -075 | 076  | 100 | -024 | 061  | 005  | -002 |
|    | *  | 142  | -051 | 081  | 082 | -005 | 059  | -018 | 008  |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  |    |      |      |     |      |      |      |      |      |
| 2  | ** | -064 | -188 | 163 | 012  | -004 | 093  | -032 | -018 |
| 3  |    | 027  | -069 | 091 | 084  | 008  | 023  | 003  | 013  |
| 4  |    | 014  | -068 | 071 | 069  | 017  | 068  | 002  | 016  |
| 5  |    |      |      |     |      |      |      |      |      |
| 6  |    | -014 | -039 | 037 | 045  | -009 | 043  | -014 | 010  |
| 7  |    | -034 | -006 | 054 | 082  | -043 | 032  | -042 | -029 |
| 8  |    | -108 | -057 | 011 | 134  | 035  | 112  | -019 | 009  |
| 9  | ** | -097 | -009 | 059 | 088  | -043 | 060  | 022  | 013  |
| 10 |    | -053 | -030 | 034 | 023  | -019 | 021  | 017  | 010  |
| 11 | *  | 002  | -035 | 041 | 010  | 023  | 015  | -004 | 014  |
| 12 | *  | -002 | -088 | 082 | -006 | 025  | 031  | -008 | 011  |
| 13 | *  | 002  | -097 | 095 | 010  | 032  | 057  | -008 | 038  |
| 14 |    | -017 | -110 | 065 | 014  | 017  | 031  | -004 | 027  |
| 15 |    | -053 | -155 | 122 | 001  | 012  | -004 | 038  | 031  |
| 16 |    | -003 | -129 | 129 | 013  | 036  | 026  | 017  | 008  |
| 17 | *  | -006 | -150 | 135 | -006 | 070  | 040  | 008  | 034  |
| 18 | *  | 013  | -153 | 147 | 051  | 049  | 056  | 008  | 038  |
| 19 |    | -055 | -153 | 134 | 090  | -016 | 054  | 022  | 015  |
| 20 |    | -039 | -063 | 079 | 047  | 026  | 066  | -001 | 019  |
| 21 |    | -055 | -052 | 089 | 034  | 017  | 069  | 009  | -032 |
| 22 |    | -065 | -058 | 067 | -020 | 026  | 028  | 036  | 008  |
| 23 | ** | -076 | -022 | 112 | -042 | -024 | 064  | 030  | -028 |
| 24 | ** | -185 | -005 | 095 | -035 | -014 | 097  | -014 | -006 |
| 25 | ** | -157 | -011 | 079 | -085 | 009  | -007 | -012 | -022 |
| 26 |    | -059 | -022 | 083 | 005  | 002  | 072  | 037  | 025  |
| 27 |    | -053 | -033 | 105 | -036 | 000  | 052  | 021  | -038 |
| 28 |    | -089 | -074 | 136 | -018 | 003  | 057  | -009 | -003 |
| 29 |    | -056 | -050 | 025 | -017 | 007  | -005 | 003  | -017 |
| 30 |    | -084 | -071 | 085 | 007  | 051  | -022 | 008  | -008 |
| 31 |    | -057 | -103 | 068 | -003 | 022  | -008 | 034  | 001  |
|    | *  | -055 | -073 | 090 | 024  | 007  | 043  | 005  | 004  |
|    | *  | 002  | -103 | 100 | 011  | 040  | 039  | 000  | 026  |

WATHEROO  
 APRIL 1953  
 HORIZONTAL INTENSITY  
 24000 PLUS TABULAR VALUES IN GAMMAS

2-0453-1-3

|    |    | 1  | 2   | 3   | 4   | 5 | 6   | 7   | 8    | 9 | 10   | 11  | 12  | 13 | 14  | 15  | 16   | 17 | 18  | 19  | 20  | 21 | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|---|-----|-----|------|---|------|-----|-----|----|-----|-----|------|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 26 | 1  |    | 856 | 869 | 880 |   | 875 | 870 | 866  |   | 860  | 861 | 859 |    | 846 | 847 | 851  |    | 860 | 863 | 862 |    | 863 | 864 | 868 | 872 | 864 | 868 | 870 | 871 | 875 | 0   | 864 |     |
|    | 2  |    | 865 | 855 | 855 |   | 860 | 855 | 843  |   | 842  | 851 | 851 |    | 851 | 850 | 859  |    | 867 | 869 | 866 |    | 872 | 869 | 874 | 867 | 871 | 870 | 872 | 871 | 871 | 0   | 862 |     |
|    | 3  |    | 870 | 863 | 859 |   | 865 | 862 | 856  |   | 859  | 859 | 864 |    | 867 | 867 | 871  |    | 870 | 865 | 860 |    | 876 | 864 | 863 | 866 | 867 | 874 | 869 | 874 | 867 | 0   | 866 |     |
|    | 4  | ** | 851 | 829 | 829 |   | 831 | 841 | 838  |   | 834  | 831 | 843 |    | 832 | 845 | 862  |    | 853 | 847 | 850 |    | 852 | 889 | 867 | 850 | 846 | 855 | 1   | 846 |     |     |     |     |
|    | 5  | *  | 856 | 849 | 846 |   | 846 | 847 | 849  |   | 853  | 858 | 862 |    | 863 | 862 | 861  |    | 866 | 865 | 868 |    | 870 | 865 | 863 | 852 | 862 | 862 | 867 | 850 | 868 | 867 | 0   | 860 |
|    | 6  | *  | 867 | 861 | 851 |   | 845 | 845 | 850  |   | 853  | 852 | 846 |    | 853 | 859 | 861  |    | 859 | 857 | 858 |    | 860 | 860 | 860 | 863 | 863 | 863 | 865 | 869 | 875 | 0   | 858 |     |
|    | 7  | *  | 875 | 868 | 865 |   | 866 | 867 | 867  |   | 868  | 868 | 869 |    | 871 | 870 | 872  |    | 871 | 870 | 870 |    | 871 | 870 | 871 | 871 | 871 | 871 | 877 | 877 | 877 | 0   | 871 |     |
|    | 8  |    | 882 | 887 | 890 |   | 888 | 874 | 864  |   | 868  | 865 | 861 |    | 858 | 858 | 854  |    | 855 | 864 | 868 |    | 871 | 871 | 871 | 871 | 870 | 872 | 872 | 880 | 883 | 0   | 871 |     |
|    | 9  |    | 881 | 886 | 884 |   | 874 | 866 | 863  |   | 862  | 865 | 866 |    | 870 | 869 | 869  |    | 871 | 867 | 869 |    | 868 | 873 | 884 | 882 | 884 | 890 | 888 | 885 | 890 | 0   | 875 |     |
|    | 10 |    | 894 | 895 | 898 |   | 898 | 892 | 878  |   | 871  | 878 | 873 |    | 871 | 865 | 859  |    | 862 | 872 | 873 |    | 870 | 873 | 871 | 865 | 868 | 868 | 869 | 871 | 876 | 0   | 875 |     |
|    | 11 |    | 881 | 883 | 881 |   | 873 | 851 | 853  |   | 836  | 832 | 834 |    | 830 | 832 | 842  |    | 851 | 861 | 862 |    | 864 | 871 | 890 | 872 | 871 | 873 | 872 | 875 | 878 | 1   | 861 |     |
|    | 12 |    | 881 | 883 | 885 |   | 886 | 883 | 874  |   | 868  | 862 | 859 |    | 857 | 859 | 850  |    | 862 | 856 | 866 |    | 868 | 872 | 872 | 869 | 870 | 871 | 872 | 872 | 875 | 0   | 870 |     |
|    | 13 |    | 877 | 874 | 874 |   | 880 | 879 | 876  |   | 873  | 866 | 853 |    | 838 | 862 | 868  |    | 864 | 870 | 880 |    | 858 | 864 | 871 | 870 | 876 | 875 | 874 | 875 | 876 | 0   | 870 |     |
|    | 14 | *  | 875 | 872 | 868 |   | 869 | 868 | 869  |   | 868  | 869 | 869 |    | 873 | 878 | 875  |    | 870 | 873 | 872 |    | 871 | 875 | 873 | 873 | 876 | 877 | 878 | 877 | 877 | 0   | 873 |     |
|    | 15 |    | 872 | 863 | 851 |   | 852 | 858 | 873  |   | 873  | 874 | 874 |    | 869 | 868 | 869  |    | 868 | 875 | 880 |    | 876 | 874 | 876 | 880 | 882 | 883 | 886 | 889 | 891 | 0   | 873 |     |
|    | 16 | ** | 884 | 867 | 856 |   | 847 | 826 | 826* |   | 819* | 811 | 815 |    | 837 | 838 | 847  |    | 860 | 850 | 832 |    | 839 | 875 | 854 | 850 | 855 | 861 | 853 | 872 | 870 | 1   | 848 |     |
|    | 17 |    | 864 | 846 | 846 |   | 848 | 855 | 851  |   | 845  | 834 | 854 |    | 870 | 870 | 850  |    | 844 | 835 | 851 |    | 859 | 868 | 867 | 867 | 867 | 870 | 872 | 875 | 876 | 0   | 858 |     |
|    | 18 |    | 878 | 870 | 865 |   | 864 | 856 | 848  |   | 839  | 838 | 832 |    | 844 | 858 | 863  |    | 860 | 858 | 863 |    | 867 | 865 | 868 | 865 | 870 | 869 | 870 | 867 | 871 | 0   | 860 |     |
|    | 19 |    | 873 | 871 | 867 |   | 846 | 841 | 855  |   | 853  | 854 | 858 |    | 851 | 846 | 848  |    | 860 | 840 | 841 |    | 842 | 845 | 847 | 852 | 855 | 858 | 858 | 862 | 868 | 1   | 854 |     |
|    | 20 | ** | 868 | 861 | 850 |   | 831 | 841 | 820  |   | 809  | 822 | 810 |    | 845 | 843 | 835  |    | 843 | 862 | 858 |    | 847 | 846 | 854 | 862 | 858 | 869 | 861 | 865 | 863 | 1   | 847 |     |
|    | 21 | ** | 853 | 859 | 856 |   | 841 | 835 | 838  |   | 836  | 823 | 827 |    | 842 | 854 | 852  |    | 848 | 853 | 854 |    | 869 | 864 | 872 | 882 | 862 | 857 | 858 | 848 | 857 | 1   | 852 |     |
|    | 22 |    | 860 | 856 | 846 |   | 846 | 853 | 856  |   | 850  | 842 | 839 |    | 842 | 839 | 843  |    | 849 | 865 | 871 |    | 867 | 858 | 850 | 848 | 847 | 852 | 852 | 850 | 846 | 1   | 851 |     |
|    | 23 | ** | 851 | 866 | 859 |   | 819 | 802 | 796  |   | 828  | 841 | 842 |    | 854 | 852 | 849* |    | 861 | 858 | 874 |    | 871 | 864 | 858 | 863 | 865 | 866 | 859 | 856 | 860 | 1   | 851 |     |
|    | 24 |    | 872 | 872 | 873 |   | 873 | 872 | 873  |   | 865  | 859 | 863 |    | 865 | 865 | 868  |    | 869 | 868 | 869 |    | 868 | 868 | 869 | 870 | 881 | 881 | 882 | 889 | 891 | 893 | 0   | 873 |
|    | 25 |    | 892 | 881 | 873 |   | 864 | 870 | 876  |   | 875  | 876 | 877 |    | 877 | 874 | 870  |    | 865 | 868 | 870 |    | 877 | 877 | 884 | 883 | 883 | 875 | 876 | 878 | 878 | 0   | 876 |     |
|    | 26 |    | 884 | 887 | 881 |   | 885 | 889 | 875  |   | 863  | 870 | 875 |    | 877 | 876 | 876  |    | 870 | 870 | 869 |    | 867 | 870 | 864 | 868 | 868 | 872 | 875 | 870 | 875 | 0   | 874 |     |
|    | 27 |    | 875 | 868 | 856 |   | 860 | 865 | 865  |   | 854  | 858 | 863 |    | 863 | 867 | 865  |    | 868 | 867 | 866 |    | 867 | 865 | 873 | 877 | 874 | 874 | 873 | 875 | 875 | 0   | 867 |     |
|    | 28 | *  | 882 | 885 | 874 |   | 863 | 865 | 863  |   | 852  | 844 | 847 |    | 851 | 858 | 857  |    | 861 | 868 | 868 |    | 870 | 873 | 874 | 874 | 876 | 878 | 878 | 881 | 880 | 0   | 868 |     |
|    | 29 |    | 875 | 866 | 855 |   | 853 | 861 | 869  |   | 870  | 867 | 875 |    | 877 | 871 | 867  |    | 869 | 866 | 873 |    | 874 | 869 | 869 | 872 | 874 | 874 | 874 | 876 | 878 | 0   | 870 |     |
|    | 30 |    | 876 | 867 | 859 |   | 853 | 858 | 859  |   | 858  | 846 | 854 |    | 860 | 857 | 852  |    | 855 | 859 | 853 |    | 853 | 859 | 862 | 860 | 863 | 865 | 864 | 864 | 864 | 0   | 859 |     |
|    |    | *  | 872 | 869 | 864 |   | 860 | 858 | 856  |   | 853  | 853 | 854 |    | 857 | 859 | 858  |    | 860 | 862 | 864 |    | 865 | 866 | 867 | 868 | 869 | 870 | 870 | 871 | 873 | 874 | 875 | 863 |
|    |    | ** | 871 | 867 | 861 |   | 858 | 858 | 860  |   | 859  | 858 | 859 |    | 862 | 865 | 865  |    | 865 | 867 | 867 |    | 868 | 869 | 868 | 869 | 870 | 871 | 873 | 874 | 875 |     | 866 |     |
|    |    |    | 861 | 856 | 850 |   | 834 | 829 | 824  |   | 825  | 826 | 827 |    | 845 | 847 | 845  |    | 849 | 854 | 856 |    | 856 | 859 | 858 | 862 | 866 | 864 |     | 856 | 857 | 861 |     | 849 |

WATHEROO  
 APRIL 1953  
 DECLINATION WEST  
 2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|         |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16   | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |     |
|---------|----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C<br>27 | 1  |     | 495 | 490 | 480 |     | 464 | 451 | 438  |     | 450  | 453 | 456 |     | 456 | 462 | 473  |     | 502 | 475 | 469 |     | 467 | 471 | 455 |     | 466 | 468 | 472 | 473 | 483 | 493 | 0   | 469 |     |
|         | 2  |     | 501 | 496 | 485 |     | 475 | 459 | 447  |     | 444  | 445 | 459 |     | 468 | 460 | 463  |     | 468 | 471 | 471 |     | 471 | 473 | 473 |     | 482 | 461 | 460 | 467 | 476 | 477 | 0   | 469 |     |
|         | 3  |     | 490 | 493 | 487 |     | 471 | 457 | 442  |     | 436  | 447 | 455 |     | 463 | 467 | 467  |     | 469 | 469 | 473 |     | 479 | 475 | 469 |     | 465 | 452 | 473 | 479 | 483 | 489 | 0   | 469 |     |
|         | 4  | **  | 495 | 492 | 476 |     | 442 | 444 | 435  |     | 429  | 443 | 452 |     | 460 | 468 | 470  |     | 479 | 532 | 479 |     | 497 | 483 | 472 |     | 474 | 466 | 484 | 473 | 483 | 495 | 1   | 472 |     |
|         | 5  | *   | 507 | 514 | 510 |     | 486 | 462 | 444  |     | 444  | 452 | 458 |     | 462 | 465 | 473  |     | 473 | 470 | 467 |     | 497 | 478 | 473 |     | 473 | 466 | 470 | 465 | 463 | 473 | 0   | 472 |     |
|         | 6  | *   | 488 | 495 | 492 |     | 473 | 458 | 444  |     | 441  | 441 | 452 |     | 462 | 474 | 466  |     | 468 | 471 | 472 |     | 472 | 472 | 475 |     | 472 | 471 | 471 | 472 | 473 | 483 | 0   | 469 |     |
|         | 7  | *   | 495 | 503 | 500 |     | 487 | 469 | 452  |     | 441  | 444 | 452 |     | 458 | 464 | 465  |     | 468 | 470 | 472 |     | 475 | 480 | 472 |     | 473 | 472 | 473 | 475 | 476 | 472 | 0   | 471 |     |
|         | 8  |     | 476 | 478 | 475 |     | 467 | 453 | 442  |     | 441  | 442 | 452 |     | 455 | 459 | 463  |     | 472 | 486 | 479 |     | 471 | 471 | 472 |     | 473 | 472 | 473 | 468 | 462 | 471 | 0   | 466 |     |
|         | 9  |     | 476 | 481 | 483 |     | 486 | 476 | 462  |     | 455  | 451 | 453 |     | 461 | 468 | 467  |     | 469 | 472 | 472 |     | 472 | 472 | 472 |     | 473 | 476 | 476 | 477 | 476 | 479 | 0   | 471 |     |
|         | 10 |     | 488 | 497 | 502 |     | 493 | 469 | 448  |     | 441  | 441 | 441 |     | 443 | 445 | 457  |     | 462 | 466 | 470 |     | 480 | 485 | 476 |     | 475 | 472 | 474 | 467 | 457 | 473 | 0   | 468 |     |
|         | 11 |     | 491 | 492 | 493 |     | 487 | 463 | 431  |     | 416  | 420 | 433 |     | 447 | 481 | 470  |     | 473 | 473 | 477 |     | 474 | 479 | 473 |     | 473 | 483 | 472 | 472 | 480 | 483 | 485 | 1   | 469 |
|         | 12 |     | 487 | 483 | 478 |     | 470 | 460 | 452  |     | 446  | 436 | 436 |     | 441 | 456 | 484  |     | 471 | 472 | 472 |     | 470 | 468 | 472 |     | 472 | 469 | 472 | 467 | 472 | 473 | 486 | 0   | 466 |
|         | 13 |     | 500 | 493 | 482 |     | 473 | 458 | 452  |     | 451  | 443 | 442 |     | 445 | 461 | 470  |     | 478 | 507 | 514 |     | 486 | 473 | 454 |     | 467 | 467 | 451 | 461 | 473 | 476 | 486 | 0   | 471 |
|         | 14 | *   | 497 | 498 | 488 |     | 472 | 456 | 448  |     | 448  | 452 | 457 |     | 462 | 468 | 467  |     | 472 | 472 | 472 |     | 472 | 472 | 472 |     | 467 | 464 | 467 | 472 | 472 | 472 | 485 | 0   | 470 |
|         | 15 |     | 504 | 507 | 499 |     | 477 | 455 | 441  |     | 438  | 436 | 448 |     | 462 | 473 | 470  |     | 473 | 481 | 477 |     | 474 | 470 | 471 |     | 469 | 473 | 473 | 473 | 473 | 475 | 485 | 0   | 471 |
|         | 16 | **  | 502 | 503 | 485 |     | 469 | 444 | 428* |     | 420* | 411 | 440 |     | 445 | 462 | 462  |     | 503 | 486 | 506 |     | 524 | 468 | 472 |     | 472 | 475 | 462 | 472 | 450 | 475 | 491 | 1   | 469 |
|         | 17 |     | 495 | 493 | 493 |     | 484 | 468 | 451  |     | 440  | 441 | 448 |     | 456 | 464 | 468  |     | 491 | 483 | 483 |     | 472 | 467 | 463 |     | 462 | 469 | 471 | 467 | 471 | 479 | 0   | 470 |     |
|         | 18 |     | 492 | 495 | 485 |     | 475 | 462 | 442  |     | 431  | 428 | 436 |     | 457 | 477 | 473  |     | 473 | 475 | 489 |     | 477 | 473 | 467 |     | 467 | 461 | 466 | 473 | 474 | 481 | 0   | 468 |     |
|         | 19 |     | 492 | 500 | 496 |     | 481 | 462 | 441  |     | 437  | 450 | 452 |     | 459 | 464 | 473  |     | 522 | 498 | 503 |     | 517 | 510 | 473 |     | 469 | 468 | 468 | 465 | 449 | 446 | 1   | 475 |     |
|         | 20 | **  | 485 | 503 | 499 |     | 493 | 466 | 440  |     | 441  | 433 | 452 |     | 452 | 460 | 474  |     | 491 | 528 | 514 |     | 496 | 473 | 467 |     | 453 | 452 | 452 | 442 | 404 | 462 | 1   | 468 |     |
|         | 21 | **  | 471 | 483 | 481 |     | 466 | 468 | 460  |     | 448  | 462 | 472 |     | 461 | 485 | 469  |     | 483 | 493 | 480 |     | 465 | 469 | 468 |     | 452 | 464 | 470 | 467 | 452 | 467 | 1   | 469 |     |
|         | 22 |     | 483 | 483 | 478 |     | 473 | 457 | 452  |     | 452  | 452 | 462 |     | 478 | 464 | 473  |     | 483 | 490 | 499 |     | 500 | 483 | 484 |     | 458 | 452 | 462 | 441 | 452 | 453 | 1   | 469 |     |
|         | 23 | **  | 462 | 487 | 484 |     | 483 | 462 | 452  |     | 456  | 452 | 455 |     | 462 | 467 | 478* |     | 482 | 477 | 478 |     | 488 | 483 | 481 |     | 460 | 451 | 466 | 462 | 467 | 472 | 1   | 469 |     |
|         | 24 |     | 485 | 496 | 499 |     | 487 | 467 | 455  |     | 452  | 452 | 453 |     | 461 | 462 | 467  |     | 471 | 471 | 472 |     | 472 | 472 | 471 |     | 462 | 466 | 472 | 472 | 475 | 482 | 0   | 471 |     |
|         | 25 |     | 486 | 491 | 490 |     | 483 | 461 | 452  |     | 451  | 451 | 452 |     | 457 | 461 | 468  |     | 467 | 473 | 471 |     | 473 | 471 | 462 |     | 458 | 462 | 463 | 464 | 473 | 473 | 0   | 467 |     |
|         | 26 |     | 484 | 492 | 488 |     | 484 | 472 | 457  |     | 452  | 443 | 448 |     | 452 | 462 | 468  |     | 480 | 488 | 496 |     | 482 | 481 | 474 |     | 464 | 468 | 467 | 466 | 455 | 464 | 0   | 470 |     |
|         | 27 |     | 493 | 504 | 504 |     | 493 | 476 | 462  |     | 457  | 458 | 456 |     | 461 | 462 | 467  |     | 473 | 482 | 473 |     | 473 | 473 | 460 |     | 457 | 461 | 462 | 464 | 470 | 473 | 0   | 471 |     |
|         | 28 | *   | 489 | 505 | 504 |     | 486 | 472 | 457  |     | 447  | 442 | 444 |     | 455 | 463 | 473  |     | 484 | 473 | 472 |     | 470 | 467 | 468 |     | 467 | 467 | 466 | 470 | 473 | 488 | 0   | 471 |     |
|         | 29 |     | 508 | 513 | 495 |     | 477 | 457 | 445  |     | 440  | 446 | 453 |     | 462 | 463 | 470  |     | 470 | 473 | 482 |     | 483 | 467 | 463 |     | 463 | 464 | 468 | 471 | 473 | 483 | 0   | 470 |     |
|         | 30 |     | 497 | 493 | 474 |     | 457 | 447 | 449  |     | 446  | 451 | 452 |     | 457 | 462 | 466  |     | 476 | 476 | 482 |     | 485 | 464 | 470 |     | 462 | 452 | 453 | 465 | 473 | 484 | 0   | 466 |     |
|         | *  | 490 | 495 | 490 |     | 477 | 461 | 447 |      | 443 | 444  | 451 |     | 457 | 465 | 469 |      | 478 | 482 | 481 |     | 480 | 475 | 470 |     | 467 | 465 | 468 | 468 | 468 | 478 | 470 | 470 |     |     |
|         | *  | 495 | 503 | 499 |     | 481 | 463 | 449 |      | 444 | 446  | 453 |     | 460 | 467 | 469 |      | 473 | 471 | 471 |     | 472 | 474 | 472 |     | 470 | 468 | 469 | 471 | 471 | 480 | 470 | 470 |     |     |
|         | ** | 483 | 494 | 485 |     | 471 | 457 | 443 |      | 439 | 440  | 454 |     | 456 | 468 | 471 |      | 488 | 503 | 491 |     | 494 | 475 | 472 |     | 462 | 462 | 467 | 461 | 456 | 477 | 470 | 470 |     |     |

WATHEROO  
APRIL 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0453-3-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13   | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 28 | 1  | 130 | 116 | 105 | 101 | 102 | 102  | 114  | 119 | 123 | 131 | 135 | 139 | 150  | 133 | 129 | 128 | 129 | 120 | 120 | 124 | 124 | 126 | 129 | 135 | 0   | 124 |     |
|    | 2  | 135 | 132 | 123 | 112 | 105 | 105  | 113  | 117 | 126 | 136 | 131 | 133 | 133  | 133 | 132 | 128 | 127 | 125 | 127 | 117 | 118 | 120 | 125 | 126 | 0   | 124 |     |
|    | 3  | 132 | 132 | 124 | 108 | 101 | 101  | 107  | 119 | 123 | 124 | 127 | 126 | 130  | 132 | 134 | 129 | 129 | 126 | 121 | 113 | 120 | 123 | 124 | 126 | 0   | 122 |     |
|    | 4  | **  | 132 | 134 | 121 | 097 | 099  | 104  | 111 | 122 | 126 | 129 | 132 | 127  | 145 | 163 | 128 | 136 | 132 | 124 | 124 | 107 | 117 | 122 | 124 | 127 | 1   | 124 |
|    | 5  | *   | 125 | 123 | 114 | 101 | 093  | 094  | 102 | 110 | 117 | 118 | 122 | 126  | 127 | 125 | 123 | 124 | 125 | 123 | 122 | 119 | 117 | 116 | 116 | 117 | 0   | 117 |
|    | 6  | *   | 122 | 119 | 116 | 108 | 104  | 104  | 112 | 119 | 127 | 130 | 130 | 124  | 128 | 129 | 129 | 128 | 128 | 127 | 125 | 124 | 121 | 121 | 121 | 123 | 0   | 122 |
|    | 7  | *   | 127 | 127 | 121 | 111 | 102  | 098  | 103 | 109 | 114 | 118 | 120 | 120  | 123 | 124 | 126 | 125 | 126 | 122 | 120 | 119 | 119 | 118 | 117 | 115 | 0   | 118 |
|    | 8  |     | 112 | 107 | 100 | 099 | 100  | 102  | 106 | 112 | 123 | 125 | 128 | 130  | 134 | 137 | 128 | 121 | 122 | 124 | 123 | 123 | 122 | 121 | 113 | 117 | 0   | 118 |
|    | 9  |     | 117 | 111 | 109 | 113 | 108  | 104  | 104 | 107 | 115 | 121 | 122 | 123  | 122 | 123 | 123 | 123 | 121 | 117 | 118 | 119 | 119 | 120 | 119 | 119 | 0   | 117 |
|    | 10 |     | 117 | 117 | 113 | 105 | 088  | 091  | 100 | 106 | 114 | 121 | 125 | 136  | 135 | 129 | 130 | 133 | 130 | 128 | 127 | 125 | 128 | 124 | 121 | 125 | 0   | 120 |
| 29 | 11 | 122 | 114 | 106 | 099 | 092 | 091  | 101  | 114 | 127 | 136 | 152 | 142 | 135  | 128 | 128 | 126 | 126 | 118 | 121 | 124 | 121 | 125 | 126 | 124 | 1   | 121 |     |
|    | 12 | 120 | 114 | 110 | 106 | 103 | 103  | 107  | 111 | 119 | 122 | 133 | 152 | 136  | 135 | 128 | 123 | 122 | 122 | 122 | 122 | 122 | 122 | 125 | 126 | 129 | 0   | 121 |
|    | 13 | 124 | 118 | 111 | 103 | 097 | 097  | 101  | 106 | 115 | 129 | 133 | 132 | 137  | 145 | 138 | 127 | 117 | 106 | 114 | 107 | 114 | 122 | 126 | 129 | 0   | 119 |     |
|    | 14 | *   | 130 | 126 | 114 | 106 | 102  | 101  | 103 | 105 | 113 | 121 | 123 | 127  | 130 | 128 | 127 | 124 | 121 | 118 | 116 | 115 | 119 | 122 | 125 | 132 | 0   | 119 |
|    | 15 |     | 140 | 134 | 124 | 109 | 101  | 095  | 096 | 105 | 114 | 125 | 131 | 128  | 129 | 129 | 122 | 120 | 117 | 114 | 112 | 112 | 112 | 113 | 117 | 124 | 0   | 118 |
|    | 16 | **  | 132 | 130 | 118 | 108 | 102  |      |     | 114 | 134 | 135 | 141 | 138  | 152 | 142 | 158 | 157 | 108 | 115 | 117 | 118 | 113 | 111 | 121 | 125 | 1   | 127 |
|    | 17 |     | 129 | 125 | 125 | 120 | 105  | 104  | 105 | 117 | 118 | 119 | 124 | 135  | 151 | 146 | 138 | 128 | 121 | 120 | 119 | 123 | 121 | 121 | 123 | 127 | 0   | 124 |
|    | 18 |     | 136 | 136 | 130 | 123 | 115  | 110  | 115 | 121 | 132 | 138 | 142 | 136  | 136 | 138 | 142 | 133 | 132 | 128 | 128 | 123 | 126 | 129 | 130 | 132 | 0   | 130 |
|    | 19 |     | 138 | 136 | 129 | 123 | 119  | 109  | 113 | 121 | 126 | 131 | 137 | 141  | 160 | 148 | 146 | 150 | 140 | 121 | 120 | 120 | 121 | 120 | 114 | 116 | 1   | 129 |
|    | 20 | **  | 137 | 137 | 125 | 118 | 103  | 105  | 126 | 124 | 145 | 136 | 138 | 146  | 152 | 160 | 150 | 142 | 132 | 130 | 122 | 125 | 125 | 125 | 110 | 138 | 1   | 131 |
| 30 | 21 | **  | 143 | 141 | 135 | 131 | 129  | 129  | 129 | 148 | 157 | 142 | 150 | 142  | 149 | 150 | 142 | 130 | 134 | 131 | 119 | 132 | 134 | 131 | 127 | 133 | 1   | 137 |
|    | 22 |     | 136 | 133 | 128 | 124 | 119  | 120  | 128 | 134 | 144 | 148 | 143 | 144  | 147 | 140 | 138 | 138 | 132 | 132 | 123 | 124 | 129 | 122 | 126 | 129 | 1   | 133 |
|    | 23 | **  | 133 | 139 | 135 | 144 | 136  | 136  | 137 | 137 | 145 | 145 | 150 | 154* | 147 | 144 | 138 | 142 | 139 | 139 | 130 | 127 | 135 | 135 | 137 | 138 | 1   | 139 |
|    | 24 |     | 138 | 139 | 135 | 126 | 111  | 111  | 118 | 126 | 131 | 134 | 137 | 137  | 136 | 134 | 134 | 133 | 133 | 131 | 126 | 129 | 130 | 129 | 129 | 129 | 0   | 130 |
|    | 25 |     | 129 | 129 | 121 | 114 | 106  | 108  | 115 | 120 | 126 | 131 | 136 | 140  | 141 | 141 | 136 | 133 | 132 | 125 | 126 | 131 | 135 | 136 | 136 | 133 | 0   | 128 |
|    | 26 |     | 139 | 135 | 131 | 127 | 120  | 119  | 123 | 124 | 131 | 138 | 143 | 146  | 153 | 152 | 154 | 141 | 138 | 138 | 134 | 135 | 137 | 137 | 135 | 141 | 0   | 136 |
|    | 27 |     | 152 | 149 | 144 | 133 | 124  | 122  | 129 | 136 | 141 | 146 | 147 | 150  | 151 | 152 | 147 | 143 | 143 | 133 | 132 | 136 | 139 | 142 | 144 | 145 | 0   | 141 |
|    | 28 | *   | 153 | 152 | 146 | 132 | 122  | 118  | 124 | 134 | 144 | 153 | 155 | 158  | 165 | 152 | 149 | 148 | 145 | 143 | 143 | 143 | 145 | 147 | 151 | 158 | 0   | 145 |
|    | 29 |     | 166 | 154 | 138 | 125 | 114  | 115  | 123 | 138 | 146 | 152 | 152 | 157  | 156 | 156 | 158 | 154 | 147 | 145 | 144 | 146 | 148 | 151 | 154 | 159 | 0   | 146 |
|    | 30 |     | 164 | 156 | 146 | 139 | 131  | 135  | 137 | 146 | 151 | 154 | 158 | 162  | 166 | 162 | 164 | 163 | 149 | 149 | 147 | 143 | 146 | 153 | 158 | 162 | 0   | 152 |
| 31 |    | 134 | 131 | 123 | 116 | 108 | 108  | 114  | 121 | 129 | 133 | 137 | 138 | 142  | 140 | 137 | 134 | 130 | 126 | 125 | 124 | 126 | 127 | 127 | 131 |     | 128 |     |
|    | *  | 131 | 129 | 122 | 112 | 105 | 103  | 109  | 115 | 123 | 128 | 130 | 131 | 135  | 132 | 131 | 130 | 129 | 127 | 125 | 124 | 124 | 125 | 126 | 129 |     | 124 |     |
|    | ** | 135 | 136 | 127 | 120 | 114 | 119* | 126* | 129 | 141 | 137 | 142 | 141 | 149  | 152 | 143 | 141 | 129 | 128 | 122 | 122 | 125 | 125 | 124 | 132 |     | 132 |     |

WATHEROO  
APRIL 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0453-1-3

WATHEROO  
APRIL 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0453-2-3

WATHEROO  
APRIL 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0453-3-3

29

|    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4        |
|----|-----|------|------|------|------|------|------|-----------|
| 1  | 082 | -019 | -026 | 042  | -015 | -017 | -011 | 006       |
| 2  | 025 | -122 | 027  | 012  | -001 | -012 | -007 | -007      |
| 3  | 003 | -037 | 033  | -020 | -006 | -001 | -009 | -017      |
| 4  | **  | 009  | -126 | -019 | -061 | -016 | -006 | -021 010  |
| 5  | *   | -038 | -077 | 026  | -040 | 027  | -027 | -009 -010 |
| 6  | *   | 032  | -070 | 048  | -026 | 022  | -008 | 036 -004  |
| 7  | *   | 010  | -024 | 021  | -020 | 011  | -011 | 009 -011  |
| 8  |     | 121  | -002 | 004  | 057  | 020  | 017  | -024 005  |
| 9  |     | 094  | -068 | 030  | -023 | -008 | 031  | -005 007  |
| 10 |     | 093  | 076  | 001  | 084  | 015  | 031  | -033 016  |
| 11 |     | 176  | -145 | 017  | 101  | 001  | 030  | 011 010   |
| 12 |     | 112  | 013  | -023 | 062  | -003 | 012  | -010 -010 |
| 13 |     | 081  | -013 | -006 | 047  | -043 | -047 | 032 016   |
| 14 | *   | 008  | -029 | 020  | -022 | -001 | 002  | 002 -013  |
| 15 |     | 011  | -085 | 003  | -074 | 044  | -063 | 023 000   |
| 16 | **  | 131  | -147 | 130  | 040  | 001  | 058  | 053 -023  |
| 17 |     | 058  | -087 | 006  | -078 | 021  | 033  | -005 -098 |
| 18 |     | 082  | -106 | 059  | 049  | -029 | 023  | 014 -019  |
| 19 |     | 087  | 020  | 051  | -032 | 028  | 020  | 026 043   |
| 20 | **  | 099  | -173 | 103  | 017  | -019 | 019  | -013 013  |
| 21 | **  | 026  | -161 | 007  | 040  | -011 | 065  | 026 -010  |
| 22 |     | 000  | -047 | 003  | 075  | 022  | -055 | -010 014  |
| 23 | **  | -026 | -208 | 108  | -020 | 069  | 060  | -059 083  |
| 24 |     | 088  | -054 | 022  | -028 | -023 | -029 | 007 -025  |
| 25 |     | 036  | -024 | -013 | -024 | 044  | 030  | 026 011   |
| 26 |     | 041  | 051  | 033  | 024  | -020 | 029  | -020 -014 |
| 27 |     | 030  | -063 | 019  | -023 | -004 | 002  | 023 -008  |
| 28 | *   | 110  | -096 | 037  | 040  | -004 | 005  | 011 -003  |
| 29 |     | -007 | -036 | 013  | -053 | 039  | -017 | 011 -003  |
| 30 |     | 056  | -023 | 021  | -009 | 007  | 012  | 019 003   |
|    |     | 054  | -063 | 026  | 004  | 007  | 006  | 002 -001  |
| *  |     | 025  | -059 | 029  | -013 | 011  | -007 | 010 -007  |

|    | A1  | B1   | A2   | B2  | A3  | B3   | A4   | B4        |
|----|-----|------|------|-----|-----|------|------|-----------|
| 1  | 062 | -075 | 169  | 033 | 007 | 013  | 026  | 048       |
| 2  | 084 | -062 | 096  | 078 | 037 | 087  | -001 | 017       |
| 3  | 088 | -080 | 137  | 062 | 039 | 048  | -040 | -023      |
| 4  | **  | 012  | -205 | 193 | 069 | 046  | -010 | -018 054  |
| 5  | *   | 103  | -032 | 111 | 120 | 007  | 135  | -023 053  |
| 6  | *   | 084  | -081 | 111 | 067 | -002 | 084  | -024 006  |
| 7  | *   | 116  | -067 | 081 | 110 | -016 | 085  | -039 007  |
| 8  |     | 025  | -118 | 075 | 070 | -019 | 033  | -023 043  |
| 9  |     | 076  | -048 | 038 | 056 | -043 | 021  | -020 -019 |
| 10 |     | 134  | -090 | 030 | 165 | -021 | 082  | -038 024  |
| 11 |     | 119  | -163 | 159 | 110 | -066 | 097  | -039 -041 |
| 12 |     | 086  | -103 | 105 | 087 | -036 | 018  | 046 -004  |
| 13 |     | 032  | -093 | 168 | 171 | 028  | -057 | -014 047  |
| 14 | *   | 079  | -053 | 115 | 067 | 032  | 064  | -005 024  |
| 15 |     | 103  | -090 | 161 | 097 | -005 | 091  | -024 033  |
| 16 | **  | 033  | -214 | 209 | 212 | 029  | 052  | -023 044  |
| 17 |     | 068  | -057 | 140 | 124 | -043 | 031  | -019 033  |
| 18 |     | 066  | -107 | 160 | 120 | -020 | 058  | -024 -026 |
| 19 |     | -078 | -140 | 106 | 230 | -009 | 057  | -067 064  |
| 20 | **  | -093 | -046 | 136 | 309 | -035 | 061  | -066 125  |
| 21 | **  | -041 | -007 | 084 | 058 | -026 | 022  | -033 039  |
| 22 |     | -095 | -058 | 064 | 157 | 047  | 053  | -042 028  |
| 23 | **  | -017 | -049 | 065 | 117 | 002  | 035  | -026 -026 |
| 24 |     | 098  | -027 | 085 | 093 | -009 | 047  | -033 007  |
| 25 |     | 071  | -021 | 092 | 099 | 004  | 039  | -027 012  |
| 26 |     | 017  | -068 | 064 | 168 | -031 | 022  | -030 032  |
| 27 |     | 083  | 031  | 091 | 139 | -007 | 041  | -033 031  |
| 28 | *   | 110  | -031 | 124 | 127 | -043 | 057  | 005 013   |
| 29 |     | 103  | -055 | 156 | 112 | 034  | 070  | -037 042  |
| 30 |     | 035  | -070 | 139 | 090 | 076  | 019  | 019 027   |
|    |     | 052  | -077 | 115 | 117 | -002 | 049  | -023 024  |
| *  |     | 098  | -052 | 109 | 098 | -004 | 086  | -018 020  |

|    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4        |
|----|------|------|------|------|------|------|------|-----------|
| 1  | -078 | -078 | 106  | -051 | 025  | -009 | 032  | 003       |
| 2  | -046 | -044 | 085  | 000  | 040  | 044  | 002  | 019       |
| 3  | -032 | -065 | 085  | 013  | 054  | 028  | -012 | 025       |
| 4  | **   | -089 | -069 | 116  | 019  | 060  | 001  | 014 051   |
| 5  | *    | -043 | -089 | 070  | -005 | 032  | 045  | 005 031   |
| 6  | *    | -055 | -064 | 041  | -024 | 034  | 028  | -011 014  |
| 7  | *    | -014 | -072 | 056  | 022  | 021  | 041  | -018 024  |
| 8  |      | -101 | -090 | 050  | -042 | -003 | 001  | 007 018   |
| 9  |      | -032 | -061 | 044  | -009 | -002 | 007  | -014 -014 |
| 10 |      | -061 | -141 | 082  | -016 | 009  | 032  | -007 012  |
| 11 |      | -104 | -088 | 118  | -079 | 021  | 047  | -011 -014 |
| 12 |      | -074 | -079 | 101  | -034 | -016 | 005  | 027 -010  |
| 13 |      | -080 | -067 | 150  | 000  | 021  | -018 | -014 007  |
| 14 | *    | -013 | -072 | 106  | 002  | 026  | 009  | 008 003   |
| 15 |      | -018 | -038 | 136  | 022  | 024  | 063  | -001 021  |
| 16 | **   | -055 | -065 | 111  | 036  | -015 | -005 | 000 047   |
| 17 |      | -042 | -041 | 086  | 005  | 025  | 036  | -024 006  |
| 18 |      | -108 | -045 | 097  | 079  | 005  | 019  | -021 031  |
| 19 | **   | -117 | -050 | 111  | 022  | 043  | 016  | -008 073  |
| 20 |      | -068 | 038  | 063  | -017 | 021  | 013  | -020 044  |
| 21 | **   | -088 | 004  | 063  | -012 | 030  | 029  | -009 017  |
| 22 | **   | -057 | 023  | 040  | 002  | -005 | 011  | -004 -027 |
| 23 |      | -021 | -038 | 070  | 002  | 021  | 047  | -020 024  |
| 24 |      | -042 | -085 | 091  | -031 | 006  | -002 | -011 014  |
| 25 |      | -058 | -076 | 087  | 014  | -001 | -001 | -002 015  |
| 26 |      | -026 | -030 | 103  | 003  | 024  | 017  | -016 022  |
| 27 | *    | -032 | -071 | 131  | -019 | 017  | 041  | -002 012  |
| 28 |      | -027 | -105 | 138  | -029 | 060  | 028  | -005 033  |
| 29 |      | -041 | -055 | 113  | 004  | 043  | -001 | 005 011   |
| 30 |      | -058 | -057 | 093  | -004 | 022  | 020  | -005 020  |
| *  |      | -033 | -074 | 080  | -004 | 025  | 032  | -004 015  |



WATHEROO  
MAY 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0553-1-3

|    |    | 1  | 2   | 3   | 4    | 5 | 6   | 7   | 8    | 9 | 10  | 11  | 12  | 13 | 14  | 15  | 16  | 17 | 18   | 19  | 20  | 21 | 22  | 23  | 24  |  |     |     |     |  |     |     |     |   |     |
|----|----|----|-----|-----|------|---|-----|-----|------|---|-----|-----|-----|----|-----|-----|-----|----|------|-----|-----|----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|---|-----|
| 06 | 1  |    | 863 | 860 | 857  |   | 856 | 857 | 854  |   | 850 | 852 | 856 |    | 861 | 861 | 868 |    | 867  | 868 | 865 |    | 863 | 868 | 870 |  | 871 | 873 | 874 |  | 875 | 875 | 878 | 0 | 864 |
|    | 2  | *  | 878 | 875 | 873  |   | 870 | 866 | 860  |   | 856 | 858 | 863 |    | 869 | 872 | 863 |    | 866  | 868 | 868 |    | 868 | 869 | 870 |  | 871 | 871 | 871 |  | 873 | 875 | 876 | 0 | 869 |
|    | 3  | *  | 880 | 880 | 875  |   | 873 | 873 | 869  |   | 862 | 860 | 866 |    | 871 | 874 | 871 |    | 865* | 867 | 873 |    | 873 | 870 | 870 |  | 869 | 871 | 872 |  | 874 | 873 | 876 | 0 | 871 |
|    | 4  |    | 881 | 883 | 883  |   | 875 | 873 | 865  |   | 860 | 862 | 862 |    | 862 | 873 | 876 |    | 876  | 878 | 876 |    | 875 | 875 | 875 |  | 877 | 878 | 877 |  | 882 | 880 | 885 | 0 | 875 |
|    | 5  |    | 890 | 889 | 882  |   | 860 | 845 | 845  |   | 852 | 856 | 846 |    | 848 | 859 | 855 |    | 854  | 852 | 858 |    | 862 | 866 | 862 |  | 867 | 879 | 876 |  | 878 | 878 | 875 | 1 | 864 |
|    | 6  | ** | 867 | 863 | 877  |   | 877 | 866 | 860  |   | 871 | 876 | 866 |    | 860 | 812 | 784 |    | 795  | 825 | 840 |    | 841 | 841 | 847 |  | 851 | 858 | 856 |  | 854 | 859 | 857 | 2 | 850 |
|    | 7  |    | 861 | 855 | 847  |   | 842 | 844 | 834  |   | 814 | 841 | 848 |    | 851 | 850 | 823 |    | 832  | 847 | 851 |    | 855 | 858 | 863 |  | 862 | 862 | 864 |  | 865 | 865 | 867 | 1 | 850 |
|    | 8  | ** | 874 | 864 | 860  |   | 857 | 836 | 828  |   | 820 | 831 | 847 |    | 854 | 844 | 857 |    | 861  | 862 | 855 |    | 861 | 865 | 861 |  | 870 | 866 | 864 |  | 860 | 863 | 869 | 1 | 855 |
|    | 9  |    | 870 | 872 | 878  |   | 875 | 865 | 845  |   | 833 | 841 | 845 |    | 857 | 860 | 851 |    | 851  | 863 | 872 |    | 867 | 857 | 864 |  | 865 | 861 | 865 |  | 864 | 853 | 860 | 1 | 860 |
|    | 10 |    | 874 | 877 | 874  |   | 865 | 862 | 856  |   | 854 | 858 | 855 |    | 853 | 852 | 855 |    | 862  | 859 | 867 |    | 862 | 862 | 880 |  | 870 | 869 | 869 |  | 869 | 872 | 875 | 0 | 865 |
|    | 11 |    | 872 | 866 | 861  |   | 857 | 846 | 845  |   | 854 | 859 | 863 |    | 866 | 876 | 871 |    | 865  | 865 | 866 |    | 867 | 869 | 870 |  | 872 | 873 | 876 |  | 879 | 879 | 878 | 0 | 866 |
|    | 12 | *  | 876 | 874 | 872  |   | 865 | 861 | 861  |   | 862 | 870 | 877 |    | 878 | 877 | 876 |    | 873  | 873 | 870 |    | 871 | 876 | 878 |  | 878 | 879 | 878 |  | 882 | 884 | 884 | 0 | 874 |
|    | 13 | *  | 884 | 881 | 879  |   | 874 | 871 | 873  |   | 873 | 876 | 881 |    | 882 | 881 | 880 |    | 880  | 877 | 874 |    | 875 | 875 | 876 |  | 876 | 877 | 878 |  | 880 | 880 | 885 | 0 | 878 |
|    | 14 | *  | 890 | 888 | 877  |   | 871 | 874 | 872  |   | 868 | 872 | 878 |    | 879 | 878 | 879 |    | 877  | 878 | 879 |    | 878 | 879 | 881 |  | 879 | 882 | 884 |  | 884 | 885 | 891 | 0 | 879 |
|    | 15 | ** | 897 | 902 | 905  |   | 893 | 885 | 881* |   | 865 | 867 | 879 |    | 886 | 880 | 883 |    | 863  | 858 | 824 |    | 823 | 846 | 859 |  | 874 | 869 | 855 |  | 835 | 836 | 851 | 1 | 867 |
|    | 16 | ** | 850 | 844 | 803  |   | 781 | 785 | 781  |   | 783 | 802 | 799 |    | 801 | 785 | 780 |    | 797  | 836 | 790 |    | 801 | 796 | 801 |  | 825 | 825 | 836 |  | 847 | 870 | 838 | 2 | 811 |
|    | 17 |    | 811 | 792 | 788  |   | 807 | 810 | 810  |   | 805 | 815 | 828 |    | 827 | 834 | 834 |    | 835  | 835 | 837 |    | 834 | 839 | 841 |  | 845 | 849 | 850 |  | 848 | 852 | 849 | 1 | 828 |
|    | 18 |    | 845 | 848 | 842  |   | 837 | 835 | 808  |   | 811 | 818 | 830 |    | 826 | 824 | 829 |    | 836  | 831 | 837 |    | 840 | 843 | 850 |  | 854 | 856 | 857 |  | 858 | 855 | 858 | 1 | 839 |
|    | 19 | ** | 851 | 855 | 858  |   | 848 | 838 | 827  |   | 832 | 827 | 837 |    | 841 | 847 | 830 |    | 839  | 842 | 861 |    | 855 | 851 | 851 |  | 857 | 854 | 859 |  | 861 | 861 | 860 | 1 | 848 |
|    | 20 |    | 856 | 855 | 853  |   | 844 | 847 | 848  |   | 847 | 845 | 825 |    | 838 | 846 | 846 |    | 850  | 851 | 849 |    | 851 | 852 | 855 |  | 871 | 868 | 860 |  | 856 | 857 | 856 | 1 | 851 |
|    | 21 |    | 861 | 853 | 845  |   | 842 | 842 | 838* |   | 834 | 844 | 847 |    | 852 | 858 | 863 |    | 856  | 858 | 854 |    | 860 | 869 | 862 |  | 862 | 861 | 856 |  | 859 | 862 | 865 | 0 | 854 |
|    | 22 |    | 867 | 869 | 874* |   | 850 | 848 | 852  |   | 849 | 856 | 861 |    | 862 | 861 | 855 |    | 850  | 846 | 855 |    | 860 | 865 | 859 |  | 858 | 873 | 874 |  | 866 | 860 | 863 | 1 | 860 |
|    | 23 |    | 862 | 860 | 859  |   | 853 | 841 | 834  |   | 833 | 840 | 841 |    | 832 | 838 | 848 |    | 850  | 851 | 857 |    | 858 | 859 | 862 |  | 863 | 863 | 870 |  | 873 | 874 | 880 | 0 | 854 |
|    | 24 |    | 878 | 877 | 871  |   | 868 | 864 | 860  |   | 859 | 860 | 867 |    | 873 | 878 | 875 |    | 869  | 876 | 870 |    | 869 | 866 | 867 |  | 865 | 870 | 869 |  | 871 | 874 | 877 | 0 | 870 |
|    | 25 |    | 880 | 882 | 880  |   | 873 | 863 | 857  |   | 855 | 860 | 861 |    | 877 | 877 | 871 |    | 868  | 865 | 864 |    | 867 | 878 | 879 |  | 876 | 879 | 882 |  | 880 | 882 | 883 | 0 | 873 |
|    | 26 |    | 888 | 887 | 884  |   | 877 | 872 | 869  |   | 864 | 872 | 880 |    | 878 | 869 | 866 |    | 866  | 866 | 865 |    | 866 | 866 | 869 |  | 873 | 879 | 884 |  | 890 | 892 | 898 | 0 | 876 |
|    | 27 |    | 901 | 909 | 898  |   | 875 | 859 | 847  |   | 830 | 814 | 814 |    | 797 | 797 | 801 |    | 817  | 822 | 819 |    | 835 | 842 | 840 |  | 846 | 847 | 850 |  | 853 | 853 | 856 | 1 | 843 |
|    | 28 |    | 863 | 868 | 867  |   | 861 | 864 | 856  |   | 849 | 855 | 863 |    | 866 | 867 | 862 |    | 853  | 844 | 842 |    | 841 | 843 | 852 |  | 857 | 860 | 860 |  | 860 | 862 | 866 | 0 | 858 |
|    | 29 |    | 869 | 871 | 871  |   | 869 | 866 | 861  |   | 851 | 848 | 854 |    | 857 | 858 | 860 |    | 852  | 843 | 843 |    | 850 | 856 | 860 |  | 863 | 864 | 866 |  | 868 | 869 | 870 | 0 | 860 |
|    | 30 |    | 873 | 880 | 880  |   | 871 | 863 | 857  |   | 854 | 856 | 863 |    | 868 | 868 | 865 |    | 864  | 862 | 860 |    | 858 | 857 | 863 |  | 865 | 867 | 868 |  | 871 | 874 | 879 | 0 | 866 |
|    | 31 |    | 883 | 883 | 883  |   | 877 | 868 | 860  |   | 854 | 854 | 863 |    | 867 | 862 | 860 |    | 860  | 857 | 858 |    | 857 | 862 | 861 |  | 862 | 867 | 874 |  | 874 | 874 | 878 | 0 | 867 |
|    |    | *  | 871 | 870 | 866  |   | 859 | 854 | 849  |   | 845 | 850 | 854 |    | 856 | 855 | 853 |    | 853  | 856 | 855 |    | 856 | 859 | 861 |  | 864 | 866 | 867 |  | 867 | 869 | 870 |   | 859 |
|    |    | ** | 882 | 880 | 875  |   | 871 | 869 | 867  |   | 864 | 867 | 873 |    | 876 | 876 | 874 |    | 872  | 873 | 873 |    | 873 | 874 | 875 |  | 875 | 876 | 877 |  | 879 | 879 | 882 |   | 874 |
|    |    |    | 868 | 866 | 861  |   | 851 | 842 | 835  |   | 834 | 841 | 846 |    | 848 | 834 | 827 |    | 831  | 845 | 834 |    | 836 | 840 | 844 |  | 855 | 854 | 854 |  | 851 | 858 | 855 |   | 846 |

WATHEROO  
MAY 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

2-0553-2-3

|    |    | 1   | 2   | 3   | 4    | 5   | 6   | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14   | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 31 | 1  |     | 496 | 499 | 492  | 479 | 465 | 455  | 452 | 455 | 461 | 462 | 469 | 470 | 469  | 472 | 475 | 476 | 470 | 468 | 469 | 469 | 473 | 473 | 473 | 478 | 0   | 472 |
|    | 2  | *   | 483 | 478 | 476  | 475 | 473 | 463  | 455 | 451 | 452 | 462 | 469 | 468 | 469  | 470 | 470 | 469 | 469 | 468 | 464 | 464 | 468 | 472 | 473 | 475 | 0   | 468 |
|    | 3  | *   | 487 | 499 | 501  | 493 | 478 | 464  | 452 | 448 | 450 | 458 | 462 | 464 | 468* | 470 | 476 | 473 | 471 | 470 | 466 | 467 | 461 | 463 | 473 | 473 | 0   | 470 |
|    | 4  |     | 483 | 491 | 494  | 488 | 473 | 454  | 441 | 439 | 442 | 452 | 462 | 467 | 471  | 471 | 471 | 470 | 468 | 464 | 463 | 464 | 463 | 466 | 471 | 473 | 0   | 467 |
|    | 5  |     | 482 | 493 | 497  | 483 | 452 | 440  | 436 | 431 | 435 | 453 | 462 | 467 | 473  | 483 | 477 | 473 | 470 | 467 | 459 | 442 | 463 | 467 | 473 | 473 | 1   | 465 |
|    | 6  | **  | 473 | 458 | 448  | 462 | 443 | 431  | 410 | 439 | 447 | 442 | 452 | 470 | 486  | 493 | 488 | 493 | 479 | 472 | 471 | 473 | 480 | 465 | 476 | 499 | 2   | 465 |
|    | 7  |     | 493 | 493 | 504  | 499 | 478 | 452  | 452 | 444 | 443 | 457 | 462 | 499 | 493  | 484 | 483 | 473 | 474 | 473 | 477 | 465 | 473 | 475 | 475 | 477 | 1   | 475 |
|    | 8  | **  | 491 | 492 | 493  | 477 | 466 | 451  | 450 | 448 | 452 | 462 | 464 | 475 | 478  | 483 | 492 | 491 | 484 | 479 | 447 | 463 | 473 | 473 | 473 | 473 | 1   | 472 |
|    | 9  |     | 487 | 492 | 490  | 483 | 469 | 456  | 452 | 448 | 450 | 490 | 508 | 474 | 482  | 485 | 475 | 476 | 473 | 455 | 453 | 462 | 462 | 462 | 462 | 454 | 1   | 471 |
|    | 10 |     | 478 | 492 | 494  | 485 | 473 | 461  | 454 | 452 | 452 | 459 | 462 | 472 | 473  | 483 | 484 | 473 | 470 | 462 | 467 | 469 | 470 | 462 | 472 | 476 | 0   | 471 |
|    | 11 |     | 489 | 493 | 490  | 480 | 464 | 452  | 448 | 442 | 444 | 454 | 462 | 462 | 468  | 473 | 473 | 473 | 473 | 473 | 473 | 470 | 472 | 473 | 473 | 473 | 0   | 469 |
|    | 12 | *   | 475 | 481 | 480  | 475 | 470 | 459  | 452 | 447 | 452 | 462 | 468 | 470 | 473  | 473 | 473 | 473 | 470 | 465 | 468 | 470 | 472 | 468 | 473 | 478 | 0   | 469 |
|    | 13 | *   | 483 | 487 | 483  | 475 | 462 | 454  | 448 | 448 | 454 | 462 | 465 | 465 | 472  | 473 | 473 | 473 | 473 | 470 | 467 | 465 | 468 | 470 | 471 | 470 | 0   | 468 |
|    | 14 | *   | 478 | 490 | 493  | 485 | 473 | 462  | 452 | 447 | 452 | 461 | 464 | 468 | 473  | 475 | 475 | 473 | 473 | 471 | 470 | 466 | 466 | 465 | 468 | 463 | 0   | 469 |
|    | 15 | **  | 478 | 486 | 490  | 483 | 472 | 453* | 432 | 437 | 447 | 462 | 462 | 464 | 468  | 514 | 545 | 521 | 481 | 492 | 493 | 486 | 461 | 452 | 393 | 442 | 1   | 471 |
|    | 16 | **  | 467 | 476 | 471  | 435 | 447 | 441  | 436 | 449 | 474 | 462 | 508 | 523 | 524  | 535 | 538 | 566 | 545 | 523 | 476 | 463 | 470 | 396 | 334 | 350 | 2   | 471 |
|    | 17 |     | 359 | 415 | 441  | 470 | 465 | 462  | 458 | 462 | 468 | 478 | 479 | 477 | 475  | 476 | 477 | 482 | 469 | 465 | 459 | 457 | 461 | 451 | 459 | 459 | 1   | 459 |
|    | 18 |     | 457 | 482 | 483  | 483 | 472 | 472  | 465 | 468 | 466 | 479 | 493 | 469 | 478  | 485 | 483 | 476 | 473 | 469 | 462 | 462 | 466 | 443 | 457 | 457 | 1   | 471 |
|    | 19 | **  | 462 | 463 | 473  | 473 | 473 | 462  | 455 | 456 | 461 | 471 | 532 | 483 | 482  | 487 | 483 | 474 | 468 | 463 | 462 | 453 | 442 | 438 | 431 | 433 | 1   | 466 |
|    | 20 |     | 441 | 469 | 481  | 474 | 472 | 462  | 453 | 452 | 455 | 455 | 467 | 474 | 483  | 478 | 476 | 472 | 469 | 464 | 452 | 451 | 463 | 455 | 469 | 472 | 1   | 465 |
|    | 21 |     | 483 | 483 | 477  | 471 | 463 | 457  | 446 | 452 | 460 | 464 | 472 | 483 | 472  | 473 | 472 | 483 | 462 | 468 | 461 | 462 | 452 | 467 | 470 | 468 | 0   | 468 |
|    | 22 |     | 469 | 472 | 476* | 469 | 459 | 454  | 446 | 444 | 453 | 463 | 468 | 472 | 473  | 477 | 476 | 477 | 468 | 476 | 464 | 431 | 459 | 462 | 469 | 477 | 1   | 465 |
|    | 23 |     | 479 | 485 | 492  | 484 | 479 | 470  | 456 | 447 | 452 | 462 | 463 | 472 | 476  | 478 | 478 | 472 | 467 | 464 | 463 | 463 | 462 | 462 | 465 | 468 | 0   | 469 |
|    | 24 |     | 474 | 484 | 493  | 473 | 481 | 467  | 458 | 452 | 457 | 465 | 468 | 473 | 474  | 483 | 473 | 468 | 465 | 462 | 467 | 451 | 466 | 466 | 465 | 462 | 0   | 469 |
|    | 25 |     | 473 | 483 | 486  | 484 | 477 | 462  | 452 | 451 | 453 | 464 | 466 | 466 | 469  | 471 | 474 | 473 | 461 | 465 | 462 | 463 | 463 | 462 | 462 | 460 | 0   | 467 |
|    | 26 |     | 466 | 482 | 486  | 486 | 479 | 469  | 462 | 452 | 454 | 462 | 463 | 468 | 473  | 473 | 475 | 473 | 470 | 468 | 463 | 462 | 461 | 458 | 461 | 456 | 0   | 468 |
|    | 27 |     | 458 | 462 | 473  | 472 | 448 | 431  | 416 | 416 | 431 | 442 | 452 | 460 | 478  | 491 | 490 | 481 | 483 | 474 | 469 | 468 | 465 | 466 | 469 | 468 | 1   | 461 |
|    | 28 |     | 473 | 481 | 483  | 483 | 481 | 476  | 462 | 452 | 459 | 466 | 468 | 470 | 473  | 474 | 479 | 479 | 483 | 471 | 461 | 453 | 463 | 464 | 464 | 462 | 0   | 470 |
|    | 29 |     | 469 | 474 | 482  | 484 | 483 | 476  | 463 | 457 | 457 | 462 | 464 | 463 | 470  | 473 | 482 | 479 | 473 | 470 | 467 | 466 | 467 | 464 | 466 | 462 | 0   | 470 |
|    | 30 |     | 453 | 462 | 473  | 475 | 480 | 477  | 466 | 455 | 453 | 462 | 465 | 465 | 468  | 471 | 473 | 475 | 473 | 473 | 473 | 469 | 465 | 462 | 458 | 458 | 0   | 467 |
|    | 31 |     | 464 | 480 | 488  | 493 | 484 | 474  | 462 | 452 | 452 | 462 | 469 | 467 | 472  | 479 | 476 | 473 | 480 | 471 | 462 | 458 | 441 | 469 | 462 | 462 | 0   | 469 |
|    | *  | 471 | 480 | 483 | 479  | 469 | 459 | 450  | 448 | 453 | 462 | 471 | 472 | 476 | 481  | 482 | 480 | 474 | 471 | 465 | 462 | 464 | 461 | 460 | 463 |     | 468 |     |
|    | ** | 481 | 487 | 487 | 481  | 471 | 460 | 452  | 448 | 452 | 461 | 466 | 467 | 471 | 472  | 473 | 472 | 471 | 469 | 467 | 466 | 467 | 468 | 472 | 472 |     | 469 |     |
|    |    | 474 | 475 | 475 | 466  | 460 | 448 | 437  | 446 | 456 | 460 | 484 | 483 | 488 | 502  | 509 | 509 | 491 | 486 | 470 | 468 | 465 | 445 | 421 | 439 |     | 469 |     |

WATHEROO  
MAY 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0553-3-3

|    |    | 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  |    | 172 | 171 | 164 | 154 | 145 | 143  | 143 | 150 | 157 | 160 | 164 | 164 | 164  | 165 | 165 | 165 | 158 | 156 | 156 | 155 | 155 | 156 | 157 | 159 | 0 | 158  |
| 2  | *  | 161 | 161 | 158 | 154 | 147 | 146  | 145 | 145 | 152 | 158 | 161 | 165 | 167  | 165 | 164 | 163 | 161 | 159 | 156 | 156 | 157 | 158 | 158 | 161 | 0 | 157  |
| 3  | *  | 167 | 170 | 166 | 157 | 144 | 139  | 140 | 145 | 151 | 157 | 160 | 163 |      | 152 | 154 | 150 | 150 | 147 | 145 | 145 | 141 | 142 | 145 | 147 | 0 | 151  |
| 4  |    | 148 | 151 | 147 | 133 | 118 | 115  | 119 | 125 | 134 | 144 | 144 | 145 | 145  | 145 | 146 | 144 | 143 | 141 | 140 | 139 | 138 | 137 | 140 | 140 | 0 | 138  |
| 5  |    | 140 | 143 | 143 | 134 | 124 | 122  | 122 | 128 | 140 | 151 | 146 | 148 | 150  | 154 | 148 | 144 | 140 | 141 | 136 | 124 | 136 | 136 | 138 | 138 | 1 | 139  |
| 6  | ** | 138 | 134 | 127 | 131 | 120 | 117  | 110 | 126 | 136 | 138 | 164 | 185 | 184  | 169 | 158 | 158 | 148 | 144 | 141 | 138 | 143 | 135 | 137 | 146 | 2 | 143  |
| 7  |    | 136 | 136 | 140 | 135 | 126 | 119  | 131 | 130 | 136 | 144 | 145 | 170 | 161  | 148 | 144 | 139 | 141 | 139 | 141 | 137 | 141 | 141 | 139 | 139 | 1 | 140  |
| 8  | ** | 138 | 139 | 140 | 123 | 121 | 122  | 131 | 133 | 134 | 140 | 144 | 143 | 139  | 139 | 144 | 141 | 136 | 134 | 117 | 129 | 136 | 137 | 135 | 131 | 1 | 134  |
| 9  |    | 131 | 131 | 130 | 127 | 119 | 122  | 128 | 129 | 135 | 153 | 156 | 139 | 139  | 134 | 123 | 127 | 128 | 120 | 122 | 128 | 130 | 131 | 133 | 128 | 1 | 131  |
| 10 |    | 129 | 131 | 129 | 125 | 117 | 117  | 118 | 123 | 131 | 137 | 136 | 138 | 133  | 136 | 131 | 126 | 122 | 112 | 122 | 123 | 126 | 125 | 128 | 130 | 0 | 127  |
| 11 |    | 130 | 128 | 125 | 116 | 108 | 110  | 111 | 112 | 118 | 129 | 127 | 127 | 132  | 132 | 129 | 125 | 123 | 122 | 122 | 123 | 125 | 125 | 126 | 126 | 0 | 123  |
| 12 | *  | 125 | 125 | 124 | 121 | 118 | 112  | 109 | 113 | 122 | 125 | 126 | 125 | 125  | 125 | 125 | 121 | 116 | 114 | 115 | 117 | 120 | 119 | 122 | 124 | 0 | 120  |
| 13 | *  | 125 | 125 | 118 | 110 | 104 | 103  | 101 | 106 | 114 | 120 | 121 | 122 | 123  | 122 | 121 | 119 | 116 | 114 | 112 | 112 | 113 | 115 | 115 | 111 | 0 | 115  |
| 14 | *  | 116 | 118 | 114 | 104 | 093 | 089  | 091 | 096 | 106 | 114 | 117 | 119 | 120  | 121 | 119 | 116 | 113 | 111 | 111 | 109 | 110 | 112 | 113 | 112 | 0 | 110  |
| 15 | ** | 120 | 127 | 125 | 119 | 115 | 112* | 109 | 127 | 141 | 151 | 152 | 154 | 164  | 185 | 203 | 185 | 152 | 147 | 139 | 134 | 123 | 131 | 103 | 133 | 1 | 140  |
| 16 | ** | 149 | 155 | 159 | 148 | 154 | 157  | 161 | 167 | 186 | 179 | 203 | 208 | 200  | 188 | 198 | 202 | 188 | 172 | 136 | 128 | 133 | 098 | 078 | 107 | 2 | 161  |
| 17 |    | 131 | 169 | 175 | 177 | 174 | 170  | 166 | 165 | 165 | 169 | 167 | 166 | 166  | 168 | 167 | 170 | 163 | 161 | 157 | 155 | 158 | 156 | 161 | 164 | 1 | 164  |
| 18 |    | 171 | 180 | 178 | 175 | 167 | 171  | 169 | 170 | 170 | 178 | 185 | 170 | 172  | 178 | 172 | 170 | 168 | 163 | 158 | 159 | 160 | 147 | 156 | 156 | 1 | 168  |
| 19 | ** | 161 | 162 | 164 | 165 | 168 | 167  | 162 | 165 | 172 | 173 | 194 | 176 | 169  | 172 | 165 | 163 | 163 | 162 | 161 | 158 | 154 | 150 | 150 | 153 | 1 | 165  |
| 20 |    | 163 | 176 | 178 | 173 | 169 | 163  | 161 | 165 | 176 | 174 | 175 | 177 | 177  | 173 | 173 | 171 | 169 | 168 | 157 | 156 | 166 | 163 | 167 | 170 | 1 | 169  |
| 21 |    | 172 | 170 | 166 | 163 | 162 |      |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     | 0 | 167* |
| 22 |    |     |     |     | 124 | 126 | 126  | 125 | 129 | 135 | 137 | 137 | 140 | 140  | 141 | 134 | 132 | 127 | 133 | 130 | 110 | 126 | 128 | 132 | 133 | 1 | 131  |
| 23 |    | 133 | 136 | 135 | 129 | 127 | 125  | 122 | 125 | 134 | 145 | 141 | 140 | 137  | 137 | 134 | 132 | 131 | 129 | 129 | 130 | 130 | 130 | 132 | 131 | 0 | 132  |
| 24 |    | 139 | 143 | 144 | 139 | 132 | 128  | 128 | 132 | 136 | 139 | 137 | 137 | 140  | 138 | 134 | 134 | 135 | 135 | 138 | 131 | 138 | 139 | 137 | 136 | 0 | 136  |
| 25 |    | 145 | 149 | 149 | 142 | 136 | 132  | 132 | 134 | 139 | 143 | 142 | 144 | 145  | 145 | 144 | 139 | 131 | 134 | 134 | 135 | 136 | 136 | 134 | 135 | 0 | 139  |
| 26 |    | 143 | 147 | 144 | 139 | 132 | 127  | 126 | 126 | 132 | 140 | 143 | 146 | 146  | 145 | 143 | 140 | 139 | 137 | 136 | 135 | 134 | 133 | 134 | 130 | 0 | 137  |
| 27 |    | 135 | 136 | 141 | 138 | 130 | 131  | 134 | 148 | 162 | 176 | 180 | 177 | 176  | 174 | 169 | 156 | 152 | 148 | 145 | 146 | 147 | 148 | 149 | 148 | 1 | 152  |
| 28 |    | 152 | 149 | 146 | 141 | 138 | 138  | 140 | 140 | 148 | 152 | 152 | 155 | 161  | 162 | 162 | 159 | 158 | 145 | 141 | 141 | 148 | 151 | 151 | 150 | 0 | 149  |
| 29 |    | 154 | 154 | 154 | 153 | 151 | 147  | 147 | 147 | 151 | 154 | 155 | 155 | 161  | 165 | 165 | 158 | 151 | 149 | 148 | 148 | 149 | 150 | 151 | 149 | 0 | 153  |
| 30 |    | 153 | 161 | 165 | 163 | 162 | 160  | 153 | 149 | 152 | 155 | 157 | 158 | 160  | 161 | 161 | 161 | 158 | 153 | 150 | 149 | 149 | 149 | 147 | 148 | 0 | 156  |
| 31 |    | 155 | 164 | 165 | 161 | 155 | 148  | 144 | 144 | 150 | 155 | 158 | 158 | 161  | 162 | 159 | 158 | 156 | 152 | 148 | 145 | 137 | 151 | 148 | 148 | 0 | 153  |
|    | *  | 144 | 148 | 147 | 141 | 136 | 133  | 133 | 136 | 144 | 150 | 153 | 154 | 154  | 153 | 152 | 149 | 145 | 141 | 138 | 137 | 139 | 138 | 137 | 139 |   | 143  |
|    | *  | 139 | 140 | 136 | 129 | 121 | 118  | 117 | 121 | 129 | 135 | 137 | 139 | 134* | 137 | 137 | 134 | 131 | 129 | 128 | 128 | 128 | 129 | 131 | 131 |   | 131  |
|    | ** | 141 | 143 | 143 | 137 | 136 | 135  | 135 | 144 | 154 | 156 | 171 | 173 | 171  | 171 | 174 | 170 | 157 | 152 | 139 | 137 | 138 | 130 | 121 | 134 |   | 148  |

WATHEROO  
MAY 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0553-1-3

WATHEROO  
MAY 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDRETHS OF MINUTES

2-0553-2-3

WATHEROO  
MAY 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0553-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 023  | -092 | 036  | -028 | -013 | -008 | 011  | -017 |
| 2  | *  | 043  | -035 | 039  | 005  | 003  | 027  | -011 | -010 |
| 3  | *  | 037  | -012 | 032  | 017  | 000  | 021  | -011 | -017 |
| 4  |    | 052  | -054 | 052  | 030  | -019 | 009  | 002  | -001 |
| 5  |    | 140  | -077 | 063  | 000  | 022  | 044  | -008 | 042  |
| 6  | ** | 221  | 110  | -153 | -005 | 108  | 001  | -105 | 057  |
| 7  |    | 091  | -123 | 016  | -030 | 048  | 038  | -051 | -020 |
| 8  | ** | 055  | -138 | 088  | 022  | 002  | 066  | -014 | 015  |
| 9  |    | 058  | -054 | 039  | 079  | -030 | 055  | -063 | 000  |
| 10 |    | 082  | -055 | 013  | 027  | 011  | 020  | 009  | 017  |
| 11 |    | 018  | -089 | 062  | -056 | 017  | 023  | -006 | -008 |
| 12 | *  | 015  | -054 | 040  | -048 | 018  | 024  | -004 | -006 |
| 13 | *  | 009  | -002 | 039  | -022 | 013  | 016  | 003  | 003  |
| 14 | *  | 037  | -039 | 045  | -014 | 021  | 014  | 005  | 002  |
| 15 | ** | 061  | 204  | 018  | 021  | -087 | 204  | 055  | 065  |
| 16 | ** | 218  | -157 | 142  | -100 | 069  | -047 | -002 | 085  |
| 17 |    | -045 | -199 | 019  | -123 | -009 | -056 | 008  | -061 |
| 18 |    | 115  | -146 | 040  | -013 | -009 | 033  | -027 | -001 |
| 19 | ** | 079  | -105 | 036  | 015  | 013  | 017  | -055 | -007 |
| 20 |    | 061  | -085 | -009 | 006  | -032 | 002  | 040  | 022  |
| 21 |    | -004 | -106 | 050  | -014 | 020  | 028  | 020  | -024 |
| 22 |    | 055  | -038 | 013  | -032 | 016  | 050  | -037 | 018  |
| 23 |    | 114  | -133 | 051  | 003  | 012  | -011 | -008 | 000  |
| 24 |    | 009  | -018 | 069  | -001 | 001  | 022  | -006 | -004 |
| 25 |    | 059  | -055 | 046  | -027 | 004  | 063  | -019 | -017 |
| 26 |    | 112  | -002 | 052  | -047 | 022  | 010  | -023 | 000  |
| 27 |    | 372  | 008  | 020  | 180  | 005  | 066  | -002 | 067  |
| 28 |    | 057  | 050  | 038  | -048 | -027 | 055  | -002 | -012 |
| 29 |    | 104  | 006  | 017  | -012 | -028 | 042  | 006  | -031 |
| 30 |    | 068  | -001 | 063  | -004 | -011 | 039  | -014 | 000  |
| 31 |    | 107  | 007  | 053  | 007  | -007 | 039  | -026 | -003 |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | 078  | -048 | 037  | -007 | 006  | 028  | -011 | 006  |
|    | *  | 029  | -030 | 039  | -012 | 010  | 021  | -005 | -004 |

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 082  | -033 | 091  | 071  | 008  | 056  | -026 | 027  |
| 2  | *  | 054  | -025 | 060  | 054  | -017 | 013  | 001  | -025 |
| 3  | *  | 099  | -003 | 061  | 138  | -022 | 056  | -023 | 001  |
| 4  |    | 093  | -035 | 093  | 127  | -047 | 049  | -023 | -010 |
| 5  |    | 068  | -073 | 154  | 151  | -016 | 048  | -039 | -007 |
| 6  | ** | -004 | -236 | 136  | 069  | 008  | -028 | -010 | -002 |
| 7  |    | 062  | -051 | 126  | 141  | -088 | 047  | 007  | 003  |
| 8  | ** | 030  | -073 | 110  | 133  | 018  | 016  | -052 | -003 |
| 9  |    | -038 | 024  | 133  | 082  | -044 | 088  | -057 | -021 |
| 10 |    | 054  | -023 | 076  | 114  | -034 | 019  | -027 | 026  |
| 11 |    | 099  | -078 | 073  | 098  | -020 | 050  | -016 | 013  |
| 12 | *  | 047  | -047 | 067  | 061  | -031 | 020  | -011 | -011 |
| 13 | *  | 051  | -054 | 074  | 074  | -005 | 043  | -022 | 006  |
| 14 | *  | 050  | -027 | 049  | 113  | -039 | 050  | -025 | 005  |
| 15 | ** | -125 | -168 | -019 | 294  | -040 | 088  | -105 | 120  |
| 16 | ** | -559 | -223 | -057 | 355  | -028 | 220  | -054 | 147  |
| 17 |    | -228 | -034 | -082 | -029 | -089 | -070 | -086 | -118 |
| 18 |    | -080 | 041  | 019  | 082  | -027 | 047  | -038 | 007  |
| 19 | ** | -192 | 051  | 055  | 093  | -070 | 098  | -010 | -029 |
| 20 |    | -033 | -007 | 056  | 090  | -047 | -020 | -023 | -034 |
| 21 |    | 002  | -023 | 098  | 069  | 003  | 042  | -006 | -014 |
| 22 |    | -011 | -042 | 096  | 091  | 020  | 019  | -003 | -050 |
| 23 |    | 037  | 007  | 060  | 121  | -046 | 020  | -012 | 001  |
| 24 |    | 026  | 032  | 057  | 108  | -059 | 024  | -032 | -005 |
| 25 |    | 032  | 006  | 043  | 097  | -043 | 036  | -038 | 000  |
| 26 |    | 011  | 015  | 012  | 114  | -046 | 024  | -023 | -003 |
| 27 |    | 005  | -214 | 100  | 144  | -052 | 012  | -050 | -019 |
| 28 |    | 001  | 010  | 019  | 116  | -013 | 012  | -021 | -039 |
| 29 |    | 017  | -002 | -010 | 099  | -031 | -006 | -028 | -015 |
| 30 |    | -017 | -017 | -049 | 069  | -052 | -003 | -004 | -027 |
| 31 |    | 005  | 026  | 014  | 141  | -034 | 018  | -015 | -046 |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | -013 | -040 | 056  | 112  | -031 | 034  | -028 | -004 |
|    | *  | 061  | -031 | 063  | 087  | -023 | 037  | -017 | -006 |

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | -011 | -034 | 082  | 027  | 020  | 040  | -014 | 023  |
| 2  | *  | -021 | -052 | 063  | 021  | -002 | 016  | -003 | -002 |
| 3  | *  |      |      |      |      |      |      |      |      |
| 4  |    | -012 | -071 | 090  | 020  | 017  | 062  | -023 | 021  |
| 5  |    | -059 | -036 | 089  | 022  | 013  | 034  | -026 | 001  |
| 6  | ** | -156 | -119 | 156  | 022  | -049 | 017  | 029  | -009 |
| 7  |    | -068 | -050 | 086  | -009 | -039 | 024  | 012  | 002  |
| 8  | ** | -039 | -017 | 067  | 000  | 025  | 005  | -030 | 007  |
| 9  |    | -052 | 025  | 070  | -056 | -005 | 038  | -020 | -016 |
| 10 |    | -033 | 006  | 080  | -013 | -003 | 014  | -023 | 013  |
| 11 |    | -014 | -051 | 074  | 002  | 004  | 019  | -009 | 015  |
| 12 | *  | -007 | -003 | 062  | 008  | -004 | 015  | -021 | 000  |
| 13 | *  | -022 | -032 | 072  | 017  | 007  | 034  | -014 | 014  |
| 14 | *  | -026 | -072 | 093  | 016  | 004  | 038  | -020 | 011  |
| 15 | ** | -254 | -155 | 085  | 109  | 037  | -010 | -076 | 041  |
| 16 | ** | -410 | 068  | 016  | 170  | 023  | 112  | -010 | 035  |
| 17 |    | -038 | 050  | -018 | 043  | -030 | -005 | -042 | -028 |
| 18 |    | -057 | 064  | 027  | 052  | 002  | 045  | -015 | 018  |
| 19 | ** | -092 | 051  | 020  | 007  | -021 | 047  | 004  | -016 |
| 20 |    | -033 | 025  | 050  | 029  | 000  | 021  | -029 | -012 |
| 21 |    |      |      |      |      |      |      |      |      |
| 22 |    |      |      |      |      |      |      |      |      |
| 23 |    | -031 | -004 | 053  | -005 | -005 | 033  | -017 | -006 |
| 24 |    | 011  | -007 | 036  | 006  | -007 | 027  | -017 | 007  |
| 25 |    | -010 | 015  | 054  | 028  | -013 | 026  | -020 | 026  |
| 26 |    | -024 | -022 | 057  | 040  | -018 | 039  | -011 | 010  |
| 27 |    | -174 | -044 | 108  | -045 | -013 | 018  | -032 | -012 |
| 28 |    | -050 | -047 | 069  | 023  | 021  | -015 | -019 | -003 |
| 29 |    | -036 | -011 | 042  | 036  | -005 | -010 | -018 | 011  |
| 30 |    | -022 | 023  | 008  | 064  | -020 | 009  | -015 | -005 |
| 31 |    | -023 | 012  | 049  | 070  | -008 | 031  | -017 | -007 |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | -058 | -013 | 063  | 028  | -003 | 028  | -018 | 005  |
|    | *  | -013 | -027 | 071  | 020  | 006  | 037  | -017 | 007  |

WATHEROO  
JUNE 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0653-1-3

|    |    | 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  |    | 883 | 883 | 877 | 872 | 866 | 867  |     | 863  | 856 | 856 |     | 862 | 868 | 871 | 870 | 869 | 871 | 868 | 869 | 872 | 870 | 871 | 874 | 875 | 882 | 0   | 870 |     |
|    | 2  | ** | 889 | 894 | 878 | 863 | 867 | 867  |     | 860  | 840 | 829 |     | 804 | 791 | 800 | 821 | 809 | 810 | 827 | 835 | 841 | 835 | 857 | 863 | 844 | 846 | 850 | 1   | 843 |
|    | 3  | ** | 835 | 841 | 850 | 851 | 842 | 854  |     | 835  | 803 | 837 |     | 844 | 849 | 855 | 852 | 845 | 861 | 855 | 858 | 860 | 880 | 870 | 860 | 859 | 861 | 865 | 2   | 851 |
|    | 4  | ** | 868 | 855 | 849 | 844 | 839 | 832  |     | 832  | 851 | 855 |     | 855 | 849 | 849 | 854 | 857 | 862 | 861 | 861 | 860 | 868 | 862 | 862 | 861 | 863 | 868 | 1   | 855 |
|    | 5  |    | 868 | 867 | 865 | 858 | 844 | 848  | 844 | 848  | 864 | 861 | 870 | 867 | 867 | 868 | 868 | 869 | 869 | 867 | 869 | 869 | 867 | 869 | 875 | 868 | 867 | 869 | 875 | 1   |
|    | 6  |    | 876 | 874 | 871 | 865 | 847 | 849  |     | 851  | 860 | 864 |     | 868 | 865 | 872 | 864 | 864 | 867 | 865 | 864 | 869 | 865 | 866 | 866 | 868 | 871 | 874 | 1   | 865 |
|    | 7  |    | 873 | 870 | 862 | 866 | 863 | 859  |     | 854  | 844 | 841 |     | 852 | 859 | 865 | 864 | 863 | 862 | 867 | 864 | 864 | 866 | 867 | 870 | 871 | 871 | 874 | 0   | 863 |
|    | 8  |    | 878 | 877 | 875 | 870 | 865 | 865  |     | 865  | 868 | 872 |     | 876 | 878 | 877 | 872 | 868 | 869 | 870 | 870 | 872 | 873 | 872 | 873 | 872 | 875 | 878 | 0   | 872 |
|    | 9  |    | 880 | 881 | 882 | 881 | 878 | 867  |     | 862  | 867 | 876 |     | 877 | 873 | 865 | 868 | 869 | 869 | 869 | 869 | 871 | 873 | 874 | 874 | 879 | 879 | 882 | 0   | 874 |
|    | 10 |    | 888 | 891 | 885 | 879 | 869 | 858  |     | 852  | 856 | 860 |     | 869 | 870 | 870 | 871 | 873 | 871 | 871 | 870 | 872 | 875 | 873 | 876 | 876 | 881 | 886 | 0   | 873 |
| 34 | 11 |    | 887 | 886 | 878 | 873 | 872 | 868  |     | 864  | 866 | 874 |     | 876 | 873 | 866 | 870 | 865 | 867 | 869 | 872 | 874 | 879 | 878 | 876 | 877 | 881 | 885 | 0   | 874 |
|    | 12 |    | 888 | 888 | 882 | 878 | 880 | 881  |     | 882  | 882 | 885 |     | 882 | 882 | 886 | 886 | 883 | 878 | 875 | 880 | 881 | 894 | 881 | 872 | 880 | 880 | 873 | 0   | 882 |
|    | 13 |    | 879 | 865 | 859 | 859 | 856 | 855  |     | 851  | 852 | 854 |     | 856 | 861 | 864 | 864 | 864 | 865 | 865 | 867 | 867 | 886 | 877 | 874 | 872 | 874 | 876 | 0   | 865 |
|    | 14 |    | 876 | 873 | 870 | 866 | 864 | 863  |     | 858  | 859 | 869 |     | 872 | 874 | 875 | 872 | 865 | 865 | 861 | 864 | 867 | 875 | 869 | 869 | 871 | 872 | 876 | 0   | 869 |
|    | 15 |    | 879 | 881 | 882 | 877 | 869 | 859* |     | 861* | 865 | 869 |     | 872 | 873 | 872 | 871 | 873 | 875 | 873 | 874 | 874 | 875 | 875 | 875 | 876 | 877 | 879 | 0   | 873 |
|    | 16 | *  | 883 | 883 | 878 | 873 | 873 | 872  |     | 872  | 870 | 871 |     | 872 | 872 | 873 | 872 | 875 | 872 | 873 | 872 | 873 | 878 | 874 | 876 | 880 | 885 | 892 | 0   | 876 |
|    | 17 |    | 895 | 897 | 896 | 891 | 883 | 875  |     | 872  | 874 | 871 |     | 881 | 884 | 878 | 874 | 865 | 862 | 861 | 872 | 869 | 867 | 869 | 872 | 876 | 878 | 882 | 0   | 877 |
|    | 18 |    | 885 | 885 | 882 | 869 | 866 | 861  |     | 859  | 862 | 866 |     | 872 | 875 | 871 | 870 | 870 | 869 | 869 | 868 | 868 | 871 | 874 | 878 | 882 | 885 | 889 | 0   | 873 |
|    | 19 | *  | 892 | 894 | 893 | 892 | 888 | 883  |     | 875  | 872 | 880 |     | 884 | 881 | 880 | 881 | 882 | 880 | 882 | 882 | 880 | 879 | 881 | 882 | 882 | 882 | 884 | 0   | 883 |
|    | 20 |    | 888 | 885 | 882 | 882 | 879 | 872  |     | 880  | 890 | 896 |     | 896 | 892 | 878 | 873 | 865 | 873 | 855 | 861 | 864 | 876 | 891 | 870 | 886 | 882 | 880 | 0   | 879 |
|    | 21 |    | 878 | 877 | 876 | 869 | 860 | 852  |     | 842  | 854 | 863 |     | 855 | 861 | 862 | 858 | 865 | 867 | 867 | 864 | 866 | 878 | 869 | 872 | 870 | 866 | 868 | 0   | 865 |
|    | 22 |    | 869 | 868 | 864 | 865 | 862 | 859  |     | 862  | 858 | 857 |     | 859 | 867 | 859 | 854 | 850 | 866 | 862 | 864 | 864 | 867 | 868 | 869 | 867 | 870 | 873 | 0   | 863 |
|    | 23 | *  | 875 | 873 | 870 | 871 | 867 | 866  |     | 862  | 859 | 864 |     | 868 | 868 | 868 | 868 | 866 | 864 | 866 | 866 | 867 | 870 | 872 | 867 | 872 | 869 | 872 | 0   | 868 |
|    | 24 |    | 877 | 880 | 878 | 866 | 857 | 855  |     | 854  | 859 | 866 |     | 872 | 872 | 872 | 869 | 867 | 868 | 866 | 868 | 869 | 873 | 882 | 878 | 877 | 879 | 880 | 0   | 870 |
|    | 25 |    | 882 | 879 | 874 | 867 | 861 | 860  |     | 857  | 857 | 858 |     | 864 | 863 | 863 | 866 | 866 | 866 | 867 | 867 | 869 | 871 | 873 | 874 | 877 | 881 | 880 | 882 | 0   |
|    | 26 | *  | 886 | 886 | 881 | 874 | 866 | 862  |     | 862  | 866 | 873 |     | 877 | 879 | 878 | 878 | 877 | 875 | 874 | 872 | 870 | 871 | 874 | 874 | 873 | 876 | 881 | 0   | 874 |
|    | 27 | *  | 885 | 892 | 894 | 890 | 875 | 864  |     | 859  | 862 | 866 |     | 873 | 874 | 873 | 870 | 867 | 867 | 870 | 870 | 872 | 877 | 877 | 878 | 877 | 877 | 884 | 0   | 875 |
|    | 28 |    | 890 | 892 | 891 | 884 | 875 | 869  |     | 864  | 867 | 872 |     | 877 | 876 | 874 | 874 | 875 | 877 | 878 | 878 | 878 | 879 | 884 | 885 | 885 | 889 | 897 | 0   | 880 |
|    | 29 | ** | 905 | 910 | 911 | 903 | 893 | 890  |     | 886  | 893 | 889 |     | 838 | 804 | 842 | 852 | 851 | 821 | 841 | 845 | 885 | 862 | 852 | 857 | 854 | 864 | 862 | 1   | 867 |
|    | 30 | ** | 861 | 856 | 859 | 863 | 858 | 820  |     | 825  | 821 | 813 |     | 816 | 844 | 862 | 861 | 850 | 860 | 870 | 861 | 852 | 850 | 850 | 855 | 854 | 861 | 862 | 1   | 849 |
|    |    | *  | 880 | 879 | 876 | 872 | 866 | 862  |     | 859  | 859 | 864 |     | 864 | 865 | 866 | 866 | 864 | 865 | 866 | 867 | 869 | 872 | 872 | 871 | 872 | 874 | 877 |     | 869 |
|    |    | *  | 884 | 886 | 883 | 880 | 874 | 869  |     | 866  | 866 | 871 |     | 875 | 875 | 874 | 874 | 873 | 872 | 873 | 872 | 872 | 875 | 876 | 875 | 877 | 878 | 883 |     | 875 |
|    |    | ** | 872 | 871 | 869 | 865 | 860 | 853  |     | 848  | 842 | 845 |     | 831 | 827 | 842 | 848 | 842 | 843 | 851 | 852 | 860 | 859 | 858 | 859 | 854 | 859 | 861 |     | 853 |

WATHEROO  
JUNE 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |   |     |
|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 35 | 1  | 467 | 476 | 482 | 482 | 483 | 468 | 462  | 453 | 453 | 463 | 471 | 473 | 473 | 473 | 471 | 469 | 469 | 473 | 474 | 468 | 466 | 465 | 465 | 465 | 0 | 469 |
|    | 2  | **  | 472 | 478 | 483 | 457 | 462 | 431  | 410 | 387 | 400 | 425 | 456 | 483 | 515 | 523 | 486 | 481 | 472 | 500 | 464 | 461 | 472 | 463 | 467 | 1 | 463 |
|    | 3  | **  | 466 | 454 | 461 | 463 | 471 | 447  | 473 | 453 | 461 | 470 | 476 | 476 | 503 | 514 | 477 | 474 | 478 | 441 | 458 | 466 | 463 | 463 | 468 | 2 | 469 |
|    | 4  | **  | 478 | 481 | 478 | 466 | 473 | 451  | 458 | 456 | 461 | 483 | 479 | 473 | 476 | 482 | 475 | 473 | 472 | 474 | 473 | 466 | 470 | 472 | 473 | 1 | 471 |
|    | 5  |     | 478 | 481 | 481 | 479 | 471 | 456  | 471 | 462 | 477 | 482 | 472 | 475 | 474 | 474 | 473 | 474 | 463 | 470 | 434 | 469 | 470 | 464 | 462 | 1 | 470 |
|    | 6  |     | 462 | 468 | 472 | 474 | 461 | 452  | 447 | 456 | 462 | 473 | 484 | 473 | 473 | 476 | 477 | 471 | 454 | 464 | 458 | 462 | 467 | 468 | 468 | 1 | 466 |
|    | 7  |     | 474 | 480 | 479 | 474 | 463 | 451  | 452 | 457 | 458 | 464 | 471 | 472 | 473 | 477 | 477 | 470 | 464 | 463 | 462 | 462 | 466 | 466 | 465 | 0 | 466 |
|    | 8  |     | 473 | 480 | 484 | 483 | 474 | 457  | 452 | 457 | 462 | 466 | 471 | 472 | 473 | 475 | 474 | 469 | 466 | 462 | 463 | 464 | 466 | 466 | 468 | 0 | 468 |
|    | 9  |     | 474 | 474 | 473 | 466 | 462 | 451  | 450 | 450 | 454 | 455 | 461 | 472 | 473 | 474 | 474 | 473 | 468 | 465 | 465 | 463 | 464 | 466 | 466 | 0 | 465 |
|    | 10 |     | 471 | 474 | 482 | 476 | 462 | 442  | 441 | 455 | 462 | 466 | 472 | 474 | 473 | 474 | 471 | 470 | 472 | 464 | 463 | 453 | 451 | 454 | 462 | 0 | 464 |
|    | 11 |     | 469 | 481 | 483 | 477 | 463 | 454  | 452 | 459 | 463 | 469 | 476 | 475 | 473 | 474 | 471 | 467 | 462 | 460 | 462 | 463 | 460 | 446 | 462 | 0 | 466 |
|    | 12 |     | 471 | 475 | 473 | 471 | 467 | 451  | 451 | 456 | 462 | 462 | 465 | 467 | 468 | 470 | 467 | 464 | 473 | 465 | 462 | 448 | 428 | 462 | 459 | 0 | 462 |
|    | 13 |     | 466 | 467 | 461 | 467 | 473 | 452  | 452 | 450 | 468 | 468 | 471 | 479 | 479 | 472 | 472 | 471 | 471 | 455 | 460 | 462 | 462 | 462 | 453 | 0 | 465 |
|    | 14 |     | 451 | 462 | 467 | 463 | 468 | 462  | 462 | 461 | 468 | 473 | 471 | 471 | 473 | 478 | 475 | 474 | 468 | 451 | 463 | 462 | 460 | 461 | 454 | 0 | 465 |
|    | 15 |     | 463 | 473 | 476 | 482 | 477 | 461* | 457 | 461 | 466 | 469 | 471 | 473 | 476 | 473 | 467 | 466 | 465 | 464 | 465 | 463 | 463 | 464 | 462 | 0 | 468 |
|    | 16 | *   | 470 | 475 | 480 | 482 | 475 | 465  | 462 | 460 | 462 | 466 | 467 | 468 | 471 | 471 | 468 | 469 | 463 | 463 | 462 | 462 | 459 | 461 | 462 | 0 | 467 |
|    | 17 |     | 471 | 477 | 483 | 482 | 474 | 457  | 452 | 457 | 463 | 466 | 469 | 471 | 470 | 483 | 475 | 473 | 466 | 466 | 461 | 463 | 458 | 460 | 459 | 0 | 467 |
|    | 18 |     | 467 | 473 | 474 | 483 | 474 | 461  | 456 | 458 | 465 | 467 | 471 | 473 | 475 | 471 | 470 | 466 | 463 | 457 | 457 | 462 | 453 | 462 | 461 | 0 | 466 |
|    | 19 | *   | 461 | 463 | 465 | 464 | 464 | 458  | 454 | 458 | 466 | 471 | 473 | 471 | 469 | 469 | 467 | 465 | 462 | 462 | 462 | 463 | 464 | 464 | 462 | 0 | 464 |
|    | 20 |     | 462 | 463 | 472 | 471 | 465 | 455  | 452 | 452 | 461 | 465 | 469 | 469 | 482 | 501 | 480 | 473 | 463 | 451 | 463 | 462 | 422 | 441 | 447 | 0 | 463 |
|    | 21 |     | 460 | 473 | 486 | 486 | 479 | 461  | 451 | 453 | 462 | 465 | 471 | 474 | 475 | 474 | 473 | 471 | 473 | 459 | 459 | 462 | 462 | 451 | 459 | 0 | 467 |
|    | 22 |     | 465 | 471 | 473 | 467 | 457 | 441  | 445 | 453 | 461 | 469 | 473 | 479 | 480 | 481 | 475 | 469 | 467 | 462 | 456 | 465 | 463 | 456 | 462 | 0 | 464 |
|    | 23 | *   | 471 | 477 | 482 | 477 | 468 | 457  | 458 | 461 | 465 | 472 | 473 | 473 | 472 | 471 | 470 | 470 | 464 | 461 | 459 | 457 | 452 | 461 | 461 | 0 | 466 |
|    | 24 |     | 470 | 479 | 489 | 483 | 473 | 458  | 458 | 461 | 466 | 471 | 473 | 473 | 473 | 475 | 474 | 469 | 459 | 455 | 452 | 461 | 458 | 452 | 455 | 0 | 467 |
|    | 25 |     | 462 | 472 | 480 | 476 | 468 | 461  | 462 | 462 | 470 | 470 | 470 | 472 | 472 | 473 | 474 | 472 | 465 | 463 | 460 | 453 | 461 | 462 | 462 | 0 | 467 |
|    | 26 | *   | 467 | 477 | 484 | 488 | 483 | 460  | 453 | 459 | 466 | 468 | 469 | 471 | 471 | 470 | 470 | 471 | 467 | 461 | 462 | 461 | 460 | 462 | 462 | 0 | 468 |
|    | 27 | *   | 466 | 474 | 482 | 483 | 478 | 459  | 453 | 457 | 466 | 471 | 471 | 473 | 473 | 473 | 474 | 472 | 464 | 461 | 462 | 464 | 463 | 461 | 454 | 0 | 468 |
|    | 28 |     | 460 | 473 | 483 | 489 | 483 | 456  | 451 | 453 | 462 | 466 | 470 | 471 | 471 | 471 | 470 | 467 | 463 | 462 | 461 | 461 | 459 | 460 | 460 | 0 | 466 |
|    | 29 | **  | 466 | 478 | 483 | 482 | 477 | 458  | 451 | 451 | 473 | 448 | 452 | 473 | 476 | 505 | 490 | 499 | 453 | 493 | 488 | 483 | 470 | 460 | 462 | 1 | 472 |
|    | 30 | **  | 462 | 409 | 454 | 490 | 473 | 460  | 460 | 443 | 459 | 467 | 484 | 473 | 481 | 504 | 504 | 505 | 489 | 471 | 468 | 466 | 456 | 460 | 456 | 1 | 469 |
|    |    |     | 467 | 471 | 477 | 476 | 471 | 455  | 453 | 454 | 462 | 467 | 471 | 473 | 476 | 480 | 475 | 473 | 467 | 464 | 462 | 463 | 460 | 461 | 461 |   | 467 |
|    | *  |     | 467 | 473 | 479 | 479 | 474 | 460  | 456 | 459 | 465 | 470 | 471 | 471 | 471 | 471 | 470 | 469 | 464 | 462 | 461 | 461 | 460 | 462 | 460 |   | 467 |
|    | ** |     | 469 | 460 | 472 | 472 | 471 | 449  | 450 | 438 | 451 | 459 | 469 | 476 | 490 | 506 | 486 | 486 | 473 | 476 | 470 | 468 | 466 | 464 | 465 |   | 469 |

MATHEROO  
JUNE 1953  
VERTICAL INTENSITY  
5000 PLUS TABULAR VALUES IN GAMMAS

|    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1  | 1  | 2   | 3   | 4   | 5   | 6   | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
| 2  | ** | 150 | 152 | 155 | 145 | 146 | 143  | 136  | 139 | 142 | 162 | 198 | 198 | 211 | 205 | 174 | 165 | 159 | 173 | 146 | 141 | 152 | 148 | 148 | 0   | 153 |     |
| 3  | ** | 158 | 154 | 158 | 158 | 162 | 158  | 147  | 179 | 160 | 163 | 166 | 166 | 163 | 163 | 158 | 159 | 140 | 154 | 154 | 159 | 156 | 156 | 155 | 1   | 162 |     |
| 4  | ** | 162 | 166 | 166 | 162 | 162 | 162  | 155  | 168 | 158 | 163 | 176 | 171 | 164 | 163 | 161 | 160 | 162 | 159 | 158 | 156 | 156 | 155 | 155 | 2   | 161 |     |
| 5  |    | 157 | 156 | 153 | 155 | 154 | 155  | 151  | 163 | 159 | 165 | 163 | 156 | 159 | 157 | 157 | 158 | 158 | 143 | 162 | 157 | 152 | 152 | 147 | 1   | 156 |     |
| 6  |    | 150 | 158 | 160 | 158 | 154 | 158  | 150  | 149 | 156 | 160 | 163 | 165 | 157 | 157 | 157 | 157 | 154 | 157 | 153 | 156 | 158 | 155 | 153 | 1   | 156 |     |
| 7  |    | 157 | 157 | 159 | 157 | 158 | 158  | 150  | 154 | 163 | 160 | 159 | 158 | 157 | 157 | 156 | 153 | 152 | 155 | 153 | 157 | 157 | 157 | 153 | 0   | 154 |     |
| 8  |    | 155 | 158 | 158 | 150 | 142 | 138  | 142  | 146 | 153 | 160 | 159 | 156 | 158 | 158 | 156 | 152 | 151 | 151 | 153 | 155 | 157 | 155 | 154 | 0   | 153 |     |
| 9  |    | 153 | 149 | 147 | 146 | 142 | 147  | 148  | 150 | 154 | 163 | 163 | 163 | 163 | 159 | 157 | 154 | 152 | 148 | 151 | 149 | 150 | 152 | 152 | 0   | 153 |     |
| 10 |    | 152 | 152 | 152 | 149 | 143 | 140  | 145  | 151 | 166 | 163 | 163 | 163 | 163 | 157 | 154 | 152 | 152 | 152 | 152 | 150 | 150 | 152 | 152 | 0   | 153 |     |
| 11 |    | 159 | 161 | 160 | 157 | 148 | 148  | 146  | 149 | 156 | 160 | 164 | 171 | 168 | 164 | 162 | 157 | 151 | 149 | 152 | 155 | 151 | 157 | 157 | 0   | 156 |     |
| 12 |    | 158 | 157 | 153 | 153 | 149 | 146  | 138  | 139 | 148 | 154 | 155 | 155 | 155 | 154 | 153 | 150 | 152 | 142 | 144 | 143 | 136 | 152 | 148 | 0   | 150 |     |
| 13 |    | 153 | 157 | 158 | 159 | 155 | 154  | 140  | 145 | 155 | 161 | 158 | 158 | 163 | 162 | 156 | 152 | 142 | 137 | 142 | 146 | 150 | 148 | 145 | 0   | 152 |     |
| 14 |    | 158 | 164 | 162 | 160 | 155 | 151  | 152  | 155 | 156 | 154 | 158 | 158 | 159 | 158 | 156 | 158 | 153 | 143 | 151 | 151 | 151 | 153 | 151 | 0   | 155 |     |
| 15 |    | 156 | 159 | 160 | 159 | 155 | 147* | 142* | 143 | 150 | 157 | 155 | 159 | 162 | 158 | 156 | 155 | 152 | 152 | 152 | 151 | 152 | 153 | 153 | 152 | 0   | 154 |
| 16 | *  | 156 | 159 | 160 | 159 | 155 | 153  | 151  | 150 | 152 | 155 | 157 | 158 | 160 | 160 | 159 | 158 | 154 | 153 | 152 | 152 | 150 | 150 | 150 | 0   | 155 |     |
| 17 | *  | 160 | 165 | 165 | 157 | 146 | 146  | 149  | 154 | 158 | 158 | 156 | 162 | 164 | 171 | 167 | 162 | 159 | 155 | 155 | 156 | 153 | 154 | 154 | 0   | 158 |     |
| 18 | *  | 157 | 161 | 156 | 158 | 153 | 151  | 149  | 151 | 155 | 156 | 157 | 157 | 159 | 157 | 157 | 156 | 151 | 151 | 151 | 153 | 148 | 149 | 147 | 0   | 154 |     |
| 19 | *  | 152 | 155 | 155 | 153 | 154 | 154  | 155  | 156 | 159 | 161 | 162 | 162 | 172 | 177 | 169 | 160 | 157 | 149 | 152 | 157 | 136 | 145 | 149 | 0   | 156 |     |
| 20 |    | 153 | 156 | 159 | 156 | 154 | 154  | 151  | 151 | 152 | 155 | 158 | 162 | 165 | 172 | 177 | 169 | 160 | 157 | 152 | 157 | 136 | 145 | 149 | 0   | 156 |     |
| 21 |    | 160 | 167 | 170 | 169 | 162 | 157  | 161  | 158 | 162 | 171 | 170 | 169 | 170 | 167 | 165 | 164 | 164 | 155 | 158 | 160 | 161 | 165 | 160 | 0   | 163 |     |
| 22 |    | 163 | 164 | 162 | 163 | 151 | 151  | 151  | 159 | 169 | 171 | 170 | 171 | 170 | 173 | 166 | 164 | 160 | 159 | 158 | 164 | 163 | 163 | 158 | 0   | 162 |     |
| 23 | *  | 140 | 161 | 160 | 152 | 146 | 148  | 154  | 161 | 163 | 167 | 168 | 168 | 167 | 164 | 162 | 162 | 162 | 160 | 160 | 161 | 163 | 163 | 163 | 0   | 161 |     |
| 24 |    | 165 | 167 | 170 | 160 | 160 | 160  | 168  | 163 | 164 | 166 | 166 | 166 | 166 | 164 | 164 | 158 | 156 | 154 | 154 | 161 | 161 | 162 | 162 | 0   | 162 |     |
| 25 |    | 167 | 170 | 169 | 160 | 155 | 155  | 158  | 163 | 167 | 170 | 168 | 168 | 166 | 165 | 164 | 164 | 158 | 156 | 157 | 155 | 160 | 162 | 163 | 0   | 162 |     |
| 26 | *  | 170 | 174 | 174 | 171 | 162 | 157  | 154  | 157 | 164 | 168 | 168 | 168 | 168 | 166 | 165 | 165 | 163 | 161 | 162 | 162 | 164 | 165 | 164 | 0   | 165 |     |
| 27 | *  | 167 | 168 | 163 | 153 | 148 | 141  | 153  | 157 | 165 | 169 | 170 | 170 | 171 | 172 | 169 | 167 | 160 | 157 | 146 | 150 | 158 | 158 | 159 | 0   | 162 |     |
| 28 | *  | 164 | 170 | 172 | 166 | 161 | 156  | 153  | 156 | 161 | 168 | 168 | 168 | 168 | 168 | 168 | 165 | 161 | 158 | 156 | 157 | 158 | 160 | 159 | 0   | 163 |     |
| 29 | ** | 162 | 166 | 164 | 155 | 154 | 152  | 147  | 146 | 155 | 185 | 197 | 183 | 187 | 187 | 190 | 190 | 189 | 175 | 164 | 166 | 163 | 157 | 162 | 1   | 170 |     |
| 30 | ** | 165 | 149 | 173 | 183 | 166 | 164  | 170  | 174 | 174 | 188 | 180 | 183 | 185 | 190 | 182 | 181 | 174 | 162 | 164 | 163 | 161 | 163 | 163 | 168 | 1   | 172 |
|    |    | 158 | 160 | 161 | 158 | 153 | 151  | 150  | 154 | 158 | 163 | 165 | 165 | 166 | 167 | 167 | 162 | 160 | 157 | 155 | 154 | 156 | 155 | 155 |     | 159 |     |
|    | *  | 161 | 163 | 162 | 158 | 153 | 151  | 153  | 156 | 161 | 164 | 165 | 165 | 165 | 164 | 162 | 161 | 159 | 158 | 159 | 159 | 159 | 160 | 158 |     | 160 |     |
|    | ** | 159 | 157 | 163 | 161 | 156 | 151  | 151  | 159 | 158 | 172 | 181 | 180 | 186 | 190 | 173 | 171 | 161 | 162 | 158 | 157 | 158 | 156 | 159 |     | 165 |     |

WATHEROO  
JUNE 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0653-1-3

WATHEROO  
JUNE 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0653-2-3

WATHEROO  
JUNE 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0653-3-3

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|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 061  | -031 | 052  | 033  | -004 | 011  | 017  | -001 |
| 2  | ** | 329  | 081  | -080 | 089  | 009  | 007  | 034  | 092  |
| 3  | ** | 033  | -146 | -002 | 008  | -072 | 017  | 014  | -059 |
| 4  | ** | 024  | -110 | 046  | -022 | 046  | 024  | -014 | 020  |
| 5  |    | 006  | -092 | 063  | -009 | 007  | 037  | -011 | 006  |
| 6  |    | 023  | -043 | 067  | -007 | 024  | 043  | -011 | 012  |
| 7  |    | 064  | -064 | 042  | 030  | -028 | -007 | 021  | -023 |
| 8  |    | 012  | -011 | 040  | -016 | 007  | 033  | 002  | -004 |
| 9  |    | 059  | 005  | 028  | -001 | 001  | 028  | -029 | -010 |
| 10 |    | 082  | -044 | 079  | 035  | -006 | 044  | -011 | 001  |
| 11 |    | 068  | -016 | 030  | -014 | 017  | 039  | 002  | 000  |
| 12 |    | -010 | 008  | 005  | -001 | -004 | 030  | 029  | 024  |
| 13 |    | 054  | -099 | 027  | -016 | -007 | 015  | 029  | 008  |
| 14 |    | 019  | -015 | 049  | -022 | -012 | 035  | 014  | -006 |
| 15 |    | 036  | -034 | 041  | 016  | 001  | 033  | -022 | 003  |
| 16 | *  | 055  | -015 | 038  | -005 | 016  | -003 | 015  | -003 |
| 17 |    | 078  | 075  | 057  | 018  | -011 | 062  | 002  | -012 |
| 18 |    | 072  | -032 | 077  | -013 | 008  | 021  | -010 | -003 |
| 19 | *  | 041  | 014  | 026  | 037  | -011 | 027  | -016 | -006 |
| 20 |    | 028  | 079  | 031  | -088 | 000  | 045  | -022 | 026  |
| 21 |    | 062  | -060 | 035  | 026  | -006 | 049  | -026 | 023  |
| 22 |    | 054  | -024 | 005  | -011 | 010  | 013  | 002  | -017 |
| 23 | *  | 031  | -012 | 023  | 003  | -012 | 019  | 005  | -004 |
| 24 |    | 049  | -057 | 061  | -026 | -006 | 042  | -017 | 013  |
| 25 |    | 081  | -061 | 046  | -003 | 006  | 011  | -001 | 002  |
| 26 | *  | 016  | -016 | 073  | 010  | 007  | 037  | -010 | 014  |
| 27 | *  | 087  | -005 | 050  | 030  | -025 | 063  | -023 | -001 |
| 28 |    | 085  | -036 | 056  | 011  | 005  | 029  | -018 | -004 |
| 29 | ** | 238  | 196  | -097 | 100  | 039  | 047  | 053  | 117  |
| 30 | ** | 068  | -128 | 091  | 121  | -050 | 000  | 002  | -048 |
|    |    | 063  | -024 | 034  | 011  | 000  | 028  | 001  | 004  |
|    | *  | 047  | -006 | 043  | 014  | -004 | 028  | -007 | 000  |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  |    | 018  | -007 | 010  | 074 | -062 | 029  | 003  | -020 |
| 2  | ** | 062  | -280 | 074  | 296 | -090 | -096 | 050  | 065  |
| 3  | ** | -099 | -048 | 054  | 095 | 002  | -092 | -023 | -007 |
| 4  | ** | 005  | -049 | 060  | 052 | -022 | 028  | 008  | -013 |
| 5  |    | -018 | 041  | 052  | 060 | 003  | 024  | -025 | -030 |
| 6  |    | -025 | -028 | 072  | 055 | -035 | 000  | -019 | -038 |
| 7  |    | 012  | -037 | 064  | 080 | -008 | 022  | -027 | 006  |
| 8  |    | 026  | -006 | 048  | 087 | -029 | 021  | -026 | -010 |
| 9  |    | 025  | -063 | 039  | 079 | -002 | 003  | -002 | 010  |
| 10 |    | -015 | -041 | 064  | 105 | -026 | 075  | -014 | -001 |
| 11 |    | -017 | 002  | 053  | 085 | -037 | 047  | -023 | 022  |
| 12 |    | -014 | 001  | 023  | 099 | 003  | 067  | 026  | 008  |
| 13 |    | -045 | -029 | 037  | 064 | -037 | -002 | -003 | -027 |
| 14 |    | -070 | -012 | 007  | 040 | -012 | -008 | -034 | -022 |
| 15 |    | -006 | 017  | 018  | 062 | -049 | 007  | -016 | -010 |
| 16 | *  | 011  | 028  | 009  | 073 | -023 | 015  | -014 | 003  |
| 17 |    | 000  | -008 | 025  | 104 | -026 | 031  | -032 | -004 |
| 18 |    | -013 | 027  | 032  | 081 | -033 | 010  | -012 | -011 |
| 19 | *  | -028 | -016 | 034  | 018 | -027 | 003  | -004 | -020 |
| 20 |    | -101 | -016 | 010  | 148 | -016 | 014  | -032 | 035  |
| 21 |    | -011 | 007  | 009  | 113 | -056 | 024  | -027 | -017 |
| 22 |    | -039 | -066 | 080  | 080 | -029 | 024  | -029 | 001  |
| 23 | *  | -016 | 018  | 046  | 079 | -014 | 045  | -011 | 000  |
| 24 |    | -019 | 040  | 045  | 103 | -029 | 036  | -046 | 002  |
| 25 |    | -028 | 012  | 025  | 065 | -006 | 027  | -024 | -011 |
| 26 | *  | 014  | 031  | 012  | 093 | -046 | 027  | -021 | -028 |
| 27 | *  | -009 | 011  | 020  | 086 | -050 | 022  | -036 | -021 |
| 28 |    | 009  | 024  | 013  | 101 | -067 | 018  | -026 | -029 |
| 29 | ** | 019  | -103 | -042 | 116 | -032 | -006 | -085 | 035  |
| 30 | ** | -134 | -138 | -057 | 113 | -019 | -044 | -022 | -101 |
|    |    | -017 | -024 | 031  | 089 | -030 | 013  | -020 | -010 |
|    | *  | -006 | 015  | 025  | 070 | -033 | 023  | -017 | -014 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  |    | -017 | 004  | 022 | 042  | -021 | 029  | -014 | -011 |
| 2  | ** | -205 | -111 | 149 | 096  | -058 | -011 | 026  | 007  |
| 3  | ** | -071 | 010  | 042 | 022  | 005  | -040 | -029 | 019  |
| 4  | ** | -031 | 015  | 027 | 020  | -021 | 035  | 004  | -011 |
| 5  |    | -032 | 011  | 007 | -014 | 005  | 012  | -020 | -002 |
| 6  |    | -017 | 004  | 024 | 002  | -026 | 013  | -017 | -015 |
| 7  |    | -015 | -035 | 048 | -023 | 019  | 036  | -039 | 024  |
| 8  |    | -006 | -036 | 056 | -002 | 001  | 022  | -026 | 014  |
| 9  |    | -046 | -034 | 042 | -014 | 000  | -007 | 002  | 003  |
| 10 |    | -058 | -006 | 056 | -020 | 011  | 028  | -018 | 006  |
| 11 |    | -038 | -007 | 074 | 016  | -017 | 020  | -010 | 007  |
| 12 |    | -017 | 001  | 056 | 044  | 006  | 031  | 003  | -013 |
| 13 |    | -039 | 019  | 059 | 038  | -014 | 022  | -035 | -012 |
| 14 |    | -033 | 005  | 029 | 032  | 011  | -001 | -027 | 005  |
| 15 |    | 001  | -014 | 045 | 046  | -018 | 027  | -016 | 002  |
| 16 | *  | -019 | -002 | 017 | 039  | -010 | 015  | -009 | 003  |
| 17 |    | -022 | -031 | 034 | 041  | 015  | 020  | -028 | 028  |
| 18 |    | -019 | 004  | 018 | 030  | -003 | 020  | -014 | 011  |
| 19 | *  | -032 | -014 | 010 | -014 | -007 | 005  | -009 | 002  |
| 20 |    | -074 | -019 | 021 | 075  | -005 | -004 | -016 | 023  |
| 21 |    | -030 | 013  | 031 | 023  | -015 | 027  | -020 | -006 |
| 22 |    | -056 | -022 | 060 | -014 | -001 | 021  | -018 | 020  |
| 23 | *  | -036 | -034 | 050 | -024 | 016  | 017  | -006 | 010  |
| 24 |    | -014 | 019  | 041 | 014  | 003  | 016  | -023 | 010  |
| 25 |    | -023 | 020  | 055 | 004  | 016  | 023  | -017 | 015  |
| 26 | *  | 007  | -002 | 047 | 027  | -007 | 035  | -022 | 000  |
| 27 | *  | -043 | -040 | 075 | -005 | 016  | 025  | -026 | 022  |
| 28 |    | -024 | 006  | 052 | 038  | -012 | 027  | -018 | 003  |
| 29 | ** | -143 | -104 | 098 | 053  | -016 | 020  | -053 | -013 |
| 30 | ** | -108 | 002  | 016 | 034  | 009  | 001  | -039 | -028 |
|    |    | -043 | -014 | 043 | 022  | -005 | 015  | -017 | 004  |
|    | *  | -024 | -018 | 039 | 004  | 001  | 019  | -014 | 007  |



WATHEROO  
JULY 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0753-1-3

|    |    | 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  | **  | 864 | 866 | 855  | 850 | 853 | 853 | 851  | 863 | 848  | 831 | 841 | 867 | 832 | 846 | 852 | 853 | 855 | 856 | 854 | 855 | 858 | 861 | 868 | 872 | 0 | 854 |
|    | 2  | **  | 875 | 870 | 840  | 837 | 856 | 836 | 824  | 836 | 847  | 856 | 867 | 852 | 853 | 865 | 859 | 859 | 857 | 859 | 859 | 865 | 859 | 861 | 856 | 866 | 0 | 855 |
|    | 3  |     | 870 | 868 | 864  | 866 | 859 | 853 | 846  | 849 | 853  | 855 | 861 | 856 | 852 | 858 | 863 | 858 | 855 | 858 | 858 | 857 | 852 | 861 | 866 | 870 | 0 | 859 |
|    | 4  |     | 863 | 861 | 864  | 854 | 841 | 838 | 841  | 843 | 857  | 863 | 860 | 850 | 863 | 859 | 857 | 859 | 858 | 857 | 866 | 864 | 866 | 866 | 866 | 867 | 0 | 858 |
|    | 5  |     | 868 | 868 | 863  | 867 | 863 | 851 | 825  | 828 | 842  | 849 | 855 | 858 | 852 | 855 | 857 | 860 | 862 | 861 | 862 | 863 | 865 | 871 | 871 | 871 | 0 | 858 |
|    | 6  |     | 868 | 854 | 873  | 868 | 864 | 858 | 856  | 857 | 863  | 864 | 868 | 867 | 865 | 863 | 860 | 861 | 861 | 861 | 862 | 865 | 866 | 868 | 868 | 873 | 0 | 864 |
|    | 7  |     | 881 | 881 | 868  | 846 | 834 | 824 | 833  | 837 | 846  | 851 | 851 | 849 | 849 | 852 | 850 | 856 | 856 | 861 | 868 | 866 | 867 | 873 | 872 | 863 | 0 | 856 |
|    | 8  |     | 858 | 858 | 863  | 863 | 852 | 847 | 845  | 838 | 840  | 852 | 859 | 867 | 868 | 866 | 864 | 861 | 861 | 868 | 862 | 869 | 864 | 872 | 863 | 866 | 0 | 859 |
|    | 9  |     | 868 | 869 | 865  | 870 | 869 | 860 | 859  | 867 | 869  | 875 | 875 | 874 | 869 | 863 | 864 | 870 | 873 | 874 | 873 | 884 | 886 | 884 | 881 | 880 | 0 | 872 |
|    | 10 |     | 876 | 872 | 873  | 875 | 873 | 869 | 860  | 861 | 862  | 866 | 867 | 865 | 862 | 861 | 863 | 861 | 858 | 863 | 866 | 868 | 870 | 873 | 876 | 879 | 0 | 867 |
| 38 | 11 | *   | 886 | 891 | 888  | 885 | 877 | 869 | 873  | 877 | 877  | 874 | 871 | 872 | 874 | 875 | 874 | 874 | 873 | 874 | 877 | 879 | 877 | 878 | 879 | 882 | 0 | 877 |
|    | 12 |     | 885 | 886 | 889  | 884 | 875 | 872 | 870  | 868 | 871  | 873 | 873 | 871 | 872 | 873 | 871 | 871 | 871 | 880 | 880 | 874 | 870 | 880 | 877 | 884 | 0 | 876 |
|    | 13 |     | 887 | 888 | 884  | 885 | 885 | 872 | 845  | 834 | 832  | 821 | 819 | 834 | 840 | 841 | 842 | 846 | 869 | 861 | 860 | 864 | 864 | 867 | 872 | 870 | 0 | 858 |
|    | 14 |     | 875 | 877 | 879  | 882 | 877 | 874 | 869  | 870 | 878  | 882 | 883 | 882 | 883 | 883 | 882 | 882 | 882 | 885 | 881 | 888 | 884 | 884 | 886 | 887 | 0 | 881 |
|    | 15 |     | 886 | 883 | 877  | 873 | 862 | 849 | 862  | 867 | 855  | 862 | 865 | 866 | 865 | 860 | 860 | 857 | 861 | 858 | 872 | 862 | 861 | 862 | 864 | 865 | 0 | 865 |
|    | 16 | *   | 866 | 864 | 864  | 855 | 850 | 850 | 850  | 850 | 856  | 862 | 863 | 864 | 862 | 867 | 867 | 867 | 868 | 868 | 866 | 866 | 868 | 868 | 871 | 872 | 0 | 863 |
|    | 17 | *   | 875 | 875 | 872  | 868 | 869 | 874 | 874  | 869 | 863  | 865 | 868 | 870 | 871 | 871 | 874 | 871 | 870 | 871 | 874 | 877 | 879 | 880 | 881 | 883 | 0 | 873 |
|    | 18 | *   | 883 | 886 | 889  | 891 | 882 | 873 | 874  | 878 | 880  | 877 | 874 | 874 | 872 | 876 | 880 | 879 | 878 | 880 | 881 | 882 | 883 | 884 | 882 | 885 | 0 | 880 |
|    | 19 |     | 887 | 890 | 886  | 887 | 889 | 883 | 874  | 872 | 875  | 878 | 878 | 879 | 879 | 878 | 877 | 877 | 878 | 878 | 878 | 878 | 882 | 880 | 880 | 885 | 0 | 880 |
|    | 20 |     | 893 | 895 | 888  | 880 | 872 | 868 | 869  | 871 | 875  | 878 | 873 | 866 | 867 | 864 | 863 | 866 | 866 | 866 | 871 | 872 | 874 | 876 | 879 | 883 | 0 | 874 |
|    | 21 | *   | 887 | 888 | 890  | 887 | 879 | 871 | 864  | 856 | 844* | 838 | 844 | 848 | 855 | 856 | 858 | 861 | 864 | 866 | 868 | 869 | 870 | 873 | 876 | 882 | 0 | 866 |
|    | 22 |     | 887 | 888 | 883  | 878 | 871 | 867 | 864  | 862 | 859  | 858 | 852 | 854 | 859 | 864 | 867 | 867 | 868 | 875 | 878 | 877 | 877 | 876 | 878 | 877 | 0 | 870 |
|    | 23 | **  | 882 | 888 | 883  | 865 | 853 | 848 | 841  | 843 | 847  | 805 | 797 | 809 | 829 | 797 | 828 | 824 | 822 | 827 | 836 | 839 | 845 | 839 | 854 | 863 | 1 | 840 |
|    | 24 |     | 855 | 849 | 856* | 854 | 856 | 853 | 845* | 843 | 851  | 861 | 859 | 846 | 851 | 856 | 856 | 853 | 864 | 873 | 867 | 863 | 867 | 869 | 872 | 874 | 0 | 858 |
|    | 25 |     | 876 | 876 | 874  | 871 | 868 | 860 | 853  | 854 | 862  | 868 | 869 | 867 | 865 | 865 | 868 | 862 | 865 | 871 | 862 | 859 | 862 | 865 | 868 | 871 | 0 | 866 |
|    | 26 |     | 862 | 873 | 871  | 865 | 864 | 859 | 846  | 838 | 833  | 844 | 845 | 846 | 850 | 842 | 843 | 849 | 849 | 854 | 857 | 866 | 884 | 882 | 879 | 879 | 0 | 858 |
|    | 27 | **  | 864 | 876 | 882  | 850 | 846 | 837 | 823  | 828 | 801  | 814 | 811 | 810 | 853 | 844 | 850 | 878 | 851 | 855 | 857 | 861 | 867 | 868 | 863 | 861 | 1 | 848 |
|    | 28 |     | 856 | 851 | 844  | 847 | 839 | 834 | 842  | 836 | 813  | 836 | 839 | 850 | 860 | 856 | 854 | 853 | 856 | 859 | 859 | 868 | 861 | 862 | 863 | 868 | 1 | 850 |
|    | 29 | **  | 865 | 859 | 860  | 862 | 834 | 821 | 830  | 848 | 844  | 842 | 839 | 850 | 861 | 859 | 851 | 871 | 859 | 858 | 861 | 859 | 851 | 854 | 861 | 859 | 1 | 852 |
|    | 30 |     | 853 | 868 | 876  | 868 | 859 | 851 | 840  | 829 | 830  | 836 | 843 | 852 | 863 | 850 | 850 | 855 | 867 | 855 | 859 | 854 | 853 | 855 | 859 | 864 | 0 | 854 |
|    | 31 |     | 870 | 871 | 853  | 846 | 856 | 854 | 846  | 834 | 850  | 849 | 850 | 853 | 845 | 844 | 856 | 856 | 856 | 857 | 858 | 862 | 862 | 862 | 866 | 866 | 0 | 855 |
|    |    | *   | 873 | 874 | 871  | 867 | 862 | 856 | 851  | 852 | 852  | 854 | 855 | 857 | 859 | 858 | 860 | 862 | 862 | 864 | 866 | 867 | 868 | 869 | 871 | 873 |   | 863 |
|    | ** | 879 | 881 | 881 | 877  | 871 | 867 | 867 | 866  | 866 | 864  | 863 | 864 | 866 | 867 | 869 | 871 | 870 | 871 | 872 | 873 | 875 | 875 | 877 | 878 | 881 |   | 872 |
|    |    |     | 870 | 872 | 864  | 853 | 848 | 839 | 834  | 844 | 837  | 830 | 831 | 838 | 846 | 842 | 848 | 857 | 849 | 851 | 853 | 856 | 856 | 857 | 860 | 864 |   | 850 |

WATHEROO  
JULY 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN GAMMAS

2-0753-2-3

|    |    | 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  | **  | 472 | 476 | 479  | 480 | 468 | 460 | 455  | 452 | 452  | 509 | 452 | 483 | 474 | 477 | 476 | 473 | 471 | 464 | 474 | 462 | 466 | 460 | 462 | 463 | 0   | 469 |
|    | 2  | **  | 475 | 480 | 470  | 464 | 464 | 452 | 464  | 446 | 457  | 471 | 479 | 471 | 479 | 484 | 486 | 486 | 480 | 467 | 462 | 467 | 458 | 464 | 452 | 462 | 0   | 468 |
|    | 3  |     | 462 | 473 | 475  | 472 | 471 | 468 | 451  | 449 | 451  | 468 | 470 | 470 | 469 | 482 | 483 | 474 | 482 | 467 | 470 | 465 | 462 | 468 | 471 | 471 | 0   | 469 |
|    | 4  |     | 464 | 463 | 465  | 467 | 464 | 460 | 458  | 453 | 463  | 472 | 469 | 515 | 474 | 476 | 480 | 479 | 477 | 483 | 472 | 472 | 471 | 467 | 465 | 466 | 0   | 471 |
|    | 5  |     | 472 | 477 | 480  | 482 | 470 | 452 | 449  | 431 | 442  | 453 | 462 | 478 | 473 | 472 | 477 | 473 | 472 | 473 | 465 | 462 | 460 | 459 | 462 | 461 | 0   | 465 |
|    | 6  |     | 462 | 462 | 470  | 477 | 479 | 470 | 462  | 453 | 453  | 462 | 463 | 468 | 472 | 473 | 474 | 479 | 480 | 472 | 464 | 464 | 464 | 469 | 461 | 458 | 0   | 467 |
|    | 7  |     | 472 | 481 | 485  | 473 | 461 | 451 | 442  | 441 | 454  | 463 | 469 | 472 | 475 | 474 | 484 | 497 | 473 | 464 | 458 | 462 | 464 | 465 | 468 | 462 | 0   | 467 |
|    | 8  |     | 452 | 472 | 486  | 483 | 481 | 467 | 452  | 452 | 458  | 462 | 473 | 484 | 472 | 474 | 473 | 475 | 484 | 475 | 472 | 472 | 460 | 457 | 462 | 462 | 0   | 469 |
|    | 9  |     | 471 | 482 | 486  | 482 | 474 | 471 | 461  | 457 | 460  | 464 | 467 | 470 | 471 | 476 | 473 | 470 | 467 | 462 | 461 | 440 | 451 | 456 | 457 | 452 | 0   | 466 |
|    | 10 |     | 467 | 471 | 471  | 471 | 463 | 456 | 451  | 456 | 458  | 465 | 470 | 471 | 471 | 471 | 479 | 482 | 475 | 472 | 466 | 464 | 464 | 463 | 462 | 460 | 0   | 467 |
| 39 | 11 | *   | 458 | 465 | 472  | 473 | 472 | 472 | 462  | 459 | 461  | 462 | 463 | 464 | 462 | 468 | 470 | 469 | 467 | 466 | 461 | 461 | 461 | 461 | 460 | 457 | 0   | 464 |
|    | 12 |     | 461 | 475 | 486  | 482 | 472 | 460 | 453  | 453 | 454  | 461 | 461 | 465 | 468 | 471 | 471 | 468 | 462 | 460 | 460 | 458 | 433 | 441 | 464 | 460 | 0   | 462 |
|    | 13 |     | 462 | 478 | 482  | 482 | 466 | 461 | 451  | 451 | 447  | 461 | 472 | 472 | 481 | 483 | 491 | 481 | 472 | 472 | 461 | 461 | 462 | 446 | 460 | 461 | 0   | 467 |
|    | 14 |     | 464 | 473 | 475  | 476 | 472 | 466 | 461  | 457 | 457  | 461 | 463 | 466 | 470 | 471 | 469 | 467 | 461 | 459 | 456 | 457 | 461 | 462 | 462 | 461 | 0   | 464 |
|    | 15 |     | 464 | 470 | 470  | 463 | 455 | 454 | 456  | 446 | 450  | 458 | 461 | 469 | 474 | 490 | 477 | 482 | 474 | 478 | 473 | 473 | 468 | 467 | 466 | 463 | 0   | 467 |
|    | 16 | *   | 472 | 477 | 482  | 485 | 481 | 464 | 455  | 448 | 451  | 460 | 462 | 468 | 468 | 470 | 470 | 473 | 472 | 472 | 468 | 467 | 468 | 465 | 467 | 463 | 0   | 468 |
|    | 17 | *   | 462 | 471 | 473  | 466 | 452 | 446 | 441  | 441 | 445  | 455 | 460 | 469 | 470 | 471 | 471 | 469 | 466 | 461 | 460 | 460 | 460 | 461 | 462 | 460 | 0   | 461 |
|    | 18 | *   | 459 | 460 | 466  | 471 | 471 | 460 | 452  | 450 | 455  | 460 | 460 | 463 | 470 | 472 | 471 | 471 | 463 | 460 | 460 | 460 | 460 | 461 | 461 | 461 | 0   | 462 |
|    | 19 |     | 464 | 465 | 462  | 466 | 460 | 451 | 449  | 448 | 451  | 459 | 462 | 466 | 468 | 470 | 469 | 466 | 463 | 461 | 460 | 460 | 452 | 460 | 454 | 457 | 0   | 460 |
|    | 20 |     | 460 | 471 | 474  | 470 | 460 | 457 | 449* | 449 | 453  | 460 | 461 | 471 | 474 | 471 | 472 | 471 | 465 | 461 | 458 | 459 | 459 | 459 | 461 | 461 | 0   | 463 |
|    | 21 | *   | 470 | 479 | 482  | 480 | 468 | 452 | 448  | 446 | 450* | 458 | 461 | 463 | 471 | 471 | 473 | 472 | 470 | 462 | 460 | 460 | 460 | 457 | 449 | 452 | 0   | 463 |
|    | 22 |     | 460 | 473 | 486  | 487 | 480 | 470 | 458  | 450 | 449  | 454 | 455 | 460 | 464 | 468 | 468 | 471 | 470 | 471 | 460 | 458 | 456 | 451 | 445 | 436 | 0   | 463 |
|    | 23 | **  | 446 | 461 | 480  | 485 | 471 | 463 | 450  | 440 | 429  | 468 | 478 | 489 | 485 | 512 | 512 | 512 | 524 | 488 | 480 | 471 | 455 | 451 | 390 | 401 | 1   | 468 |
|    | 24 |     | 433 | 468 | 474* | 477 | 480 | 471 | 463* | 461 | 460  | 463 | 471 | 475 | 471 | 472 | 474 | 474 | 481 | 482 | 469 | 460 | 459 | 460 | 459 | 459 | 0   | 467 |
|    | 25 |     | 467 | 476 | 483  | 489 | 481 | 471 | 460  | 452 | 453  | 460 | 468 | 469 | 469 | 468 | 470 | 471 | 490 | 491 | 477 | 467 | 468 | 467 | 460 | 469 | 0   | 471 |
|    | 26 |     | 469 | 468 | 480  | 488 | 480 | 464 | 441  | 427 | 427  | 439 | 432 | 449 | 454 | 468 | 505 | 479 | 481 | 475 | 472 | 458 | 451 | 457 | 458 | 463 | 0   | 462 |
|    | 27 | **  | 459 | 454 | 463  | 469 | 451 | 436 | 439  | 427 | 438  | 458 | 461 | 471 | 479 | 476 | 500 | 489 | 478 | 472 | 464 | 449 | 459 | 459 | 459 | 460 | 1   | 461 |
|    | 28 |     | 463 | 465 | 470  | 473 | 475 | 469 | 470  | 446 | 470  | 449 | 451 | 473 | 469 | 469 | 469 | 471 | 470 | 480 | 469 | 467 | 459 | 463 | 423 | 444 | 1   | 464 |
|    | 29 | **  | 460 | 472 | 477  | 481 | 470 | 449 | 450  | 447 | 451  | 468 | 480 | 463 | 469 | 476 | 480 | 486 | 482 | 481 | 462 | 469 | 457 | 458 | 461 | 459 | 1   | 467 |
|    | 30 |     | 465 | 471 | 479  | 476 | 470 | 456 | 453  | 449 | 439  | 449 | 459 | 481 | 479 | 469 | 472 | 471 | 460 | 467 | 467 | 459 | 467 | 455 | 457 | 443 | 0   | 463 |
| 31 |    | 448 | 472 | 480 | 477  | 470 | 469 | 455 | 454  | 454 | 449  | 474 | 459 | 468 | 490 | 481 | 470 | 469 | 468 | 470 | 449 | 459 | 464 | 459 | 461 | 0   | 465 |     |
|    |    | *   | 462 | 471 | 476  | 476 | 469 | 460 | 454  | 448 | 451  | 461 | 464 | 471 | 471 | 475 | 478 | 476 | 474 | 471 | 466 | 462 | 460 | 460 | 457 | 457 |     | 465 |
|    | *  | 464 | 470 | 475 | 475  | 469 | 459 | 452 | 449  | 452 | 459  | 459 | 461 | 465 | 468 | 470 | 471 | 471 | 468 | 464 | 462 | 462 | 462 | 461 | 460 | 459 |     | 464 |
|    | ** | 462 | 469 | 474 | 476  | 465 | 452 | 452 | 442  | 445 | 475  | 470 | 475 | 477 | 485 | 491 | 491 | 489 | 487 | 474 | 468 | 464 | 459 | 458 | 445 | 449 |     | 467 |

WATHEROO  
JULY 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0753-3-3

|    |    | 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  | ** | 169  | 169  | 172  | 166  | 156  | 156  | 160  | 160  | 165  | 204  | 168  | 175  | 183  | 177  | 175  | 173  | 169  | 167  | 171  | 163  | 165  | 160  | 161  | 163  | 0 | 169 |
| 2  | ** | 173  | 171  | 172  | 173  | 166  | 161  | 176  | 164  | 169  | 174  | 173  | 172  | 176  | 176  | 178  | 176  | 173  | 165  | 164  | 164  | 160  | 165  | 160  | 164  | 0 | 169 |
| 3  |    | 163  | 171  | 170  | 167  | 166  | 166  | 158  | 160  | 165  | 176  | 170  | 174  | 173  | 176  | 174  | 172  | 174  | 166  | 167  | 166  | 166  | 166  | 163  | 162  | 0 | 168 |
| 4  |    | 163  | 168  | 164  | 166  | 168  | 168  | 167  | 166  | 171  | 173  | 169  | 197  | 165  | 166  | 170  | 169  | 170  | 173  | 166  | 166  | 166  | 163  | 163  | 163  | 0 | 168 |
| 5  |    | 166  | 167  | 172  | 170  | 163  | 159  | 168  | 166  | 170  | 174  | 174  | 180  | 178  | 174  | 175  | 173  | 171  | 172  | 168  | 168  | 166  | 166  | 166  | 163  | 0 | 170 |
| 6  |    | 166  | 169  | 167  | 168  | 166  | 158  | 154  | 158  | 166  | 172  | 170  | 170  | 172  | 172  | 172  | 172  | 172  | 170  | 167  | 168  | 169  | 170  | 166  | 165  | 0 | 167 |
| 7  |    | 170  | 172  | 171  | 165  | 162  | 160  | 164  | 165  | 173  | 175  | 175  | 175  | 175  | 173  | 176  | 179  | 166  | 162  | 159  | 165  | 168  | 168  | 170  | 170  | 0 | 169 |
| 8  |    | 166  | 177  | 178  | 170  | 166  | 162  | 162  | 169  | 177  | 177  | 178  | 178  | 169  | 170  | 170  | 170  | 175  | 166  | 168  | 167  | 162  | 161  | 169  | 168  | 0 | 170 |
| 9  |    | 170  | 174  | 171  | 163  | 157  | 153  | 150  | 153  | 161  | 163  | 165  | 166  | 167  | 170  | 165  | 162  | 158  | 157  | 158  | 148  | 155  | 159  | 161  | 160  | 0 | 161 |
| 10 |    | 168  | 169  | 166  | 158  | 150  | 148  | 154  | 164  | 167  | 171  | 172  | 173  | 172  | 172  | 173  | 172  | 168  | 165  | 162  | 162  | 163  | 165  | 165  | 162  | 0 | 165 |
| 11 | *  | 166  | 167  | 168  | 164  | 162  | 161  | 157  | 156  | 162  | 166  | 169  | 169  | 166  | 168  | 166  | 165  | 162  | 161  | 157  | 158  | 159  | 161  | 161  | 161  | 0 | 163 |
| 12 |    | 167  | 173  | 171  | 158  | 142  | 142  | 145  | 149  | 158  | 162  | 163  | 165  | 166  | 165  | 163  | 165  | 158  | 153  | 153  | 155  | 146  | 151  | 163  | 156  | 0 | 158 |
| 13 |    | 160  | 168  | 169  | 144  | 142  | 142  | 153  | 165  | 170  | 180  | 189  | 182  | 181  | 180  | 181  | 171  | 157  | 159  | 157  | 158  | 159  | 154  | 161  | 163  | 0 | 164 |
| 14 |    | 167  | 170  | 167  | 163  | 156  | 150  | 147  | 151  | 157  | 161  | 164  | 167  | 168  | 168  | 165  | 163  | 162  | 158  | 157  | 154  | 158  | 159  | 157  | 157  | 0 | 160 |
| 15 |    | 163  | 164  | 160  | 157  | 152  | 156  | 156  | 152  | 162  | 166  | 165  | 169  | 174  | 182  | 174  | 176  | 169  | 170  | 161  | 161  | 158  | 157  | 159  | 159  | 0 | 163 |
| 16 | *  | 163  | 166  | 163  | 161  | 156  | 147  | 141  | 146  | 154  | 160  | 162  | 163  | 166  | 166  | 166  | 168  | 166  | 163  | 162  | 159  | 158  | 157  | 157  | 157  | 0 | 159 |
| 17 | *  | 161  | 165  | 165  | 157  | 152  | 148  | 148  | 152  | 160  | 165  | 165  | 165  | 165  | 165  | 165  | 164  | 163  | 161  | 159  | 158  | 157  | 157  | 157  | 152  | 0 | 159 |
| 18 | *  | 153  | 157  | 157  | 157  | 151  | 148  | 147  | 148  | 155  | 159  | 161  | 161  | 165  | 165  | 161  | 161  | 160  | 158  | 157  | 157  | 157  | 157  | 157  | 154  | 0 | 157 |
| 19 |    | 153  | 152  | 151  | 152  | 148  | 141  | 146  | 152  | 159  | 162  | 163  | 162  | 163  | 163  | 163  | 162  | 161  | 160  | 159  | 160  | 155  | 160  | 156  | 156  | 0 | 157 |
| 20 |    | 155  | 157  | 164  | 161  | 155  | 151  | 146* | 146  | 156  | 159  | 161  | 166  | 170  | 167  | 166  | 165  | 162  | 159  | 159  | 160  | 161  | 160  | 159  | 160  | 0 | 159 |
| 21 | *  | 162  | 164  | 165  | 161  | 154  | 148  | 149  | 159  | 170  | 184  | 184  | 183  | 182  | 180  | 178  | 176  | 174  | 171  | 171  | 171  | 172  | 170  | 164  | 165  | 0 | 169 |
| 22 |    | 173  | 174  | 176  | 172  | 164  | 160  | 159  | 161  | 167  | 174  | 174  | 177  | 176  | 174  | 173  | 172  | 169  | 168  | 164  | 163  | 164  | 165  | 163  | 160  | 0 | 168 |
| 23 | ** |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 |     |
| 24 |    |      |      | 175* | 174  | 171  | 167  | 159* | 155  | 157  | 159  | 162  | 169  | 166  | 163  | 162  | 161  | 159  | 154  | 151  | 151  | 150  | 152  | 152  | 154  | 0 | 160 |
| 25 |    | 160  | 166  | 166  | 162  | 156  | 148  | 143  | 141  | 150  | 159  | 160  | 161  | 161  | 160  | 158  | 160  | 167  | 160  | 154  | 151  | 152  | 152  | 152  | 156  | 0 | 156 |
| 26 |    | 164  | 164  | 164  | 164  | 159  | 148  | 141  | 141  | 156  | 168  | 165  | 177  | 176  | 184  | 199  | 177  | 174  | 165  | 161  | 154  | 150  | 154  | 157  | 161  | 0 | 163 |
| 27 | ** | 164  | 163  | 162  | 160  | 156  | 148  | 166  | 157  | 179  | 188  | 192  | 193  | 179  | 175  | 184  | 165  | 167  | 161  | 157  | 149  | 153  | 155  | 159  | 165  | 1 | 167 |
| 28 |    | 171  | 172  | 172  | 164  | 161  | 158  | 151  | 142  | 179  | 162  | 168  | 180  | 172  | 173  | 172  | 172  | 168  | 169  | 162  | 155  | 154  | 156  | 143  | 157  | 1 | 164 |
| 29 | ** | 168  | 175  | 174  | 174  | 165  | 152  | 152  | 152  | 165  | 179  | 188  | 173  | 176  | 177  | 183  | 177  | 169  | 168  | 162  | 164  | 160  | 162  | 164  | 166  | 1 | 169 |
| 30 |    | 185  | 188  | 182  | 175  | 169  | 168  | 151  | 155  | 155  | 164  | 167  | 176  | 167  | 167  | 171  | 167  | 154  | 160  | 157  | 155  | 156  | 152  | 152  | 145  | 0 | 164 |
| 31 |    | 148  | 159  | 161  | 151  | 143  | 140  | 138  | 147  | 148  | 151  | 169  | 156  | 166  | 181  | 168  | 159  | 159  | 157  | 156  | 147  | 151  | 152  | 151  | 152  | 0 | 155 |
|    | *  | 165  | 168  | 168  | 163  | 158  | 154  | 154  | 155  | 163  | 169  | 169  | 172  | 171  | 172  | 172  | 169  | 166  | 163  | 161  | 159  | 159  | 157  | 157  | 157  |   | 164 |
|    | ** | 169* | 170* | 170* | 168* | 161* | 154* | 164* | 158* | 170* | 186* | 180* | 178* | 179* | 176* | 180* | 173* | 170* | 165* | 164* | 160* | 160* | 161* | 161* | 165* |   | 168 |

WATHEROO  
JULY 1953  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0753-1-3

WATHEROO  
JULY 1953  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0753-2-3

WATHEROO  
JULY 1953  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0753-3-3

|    |    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|-----|------|------|------|------|------|------|------|
| 1  | ** | 089 | -022 | 012  | -003 | 036  | -019 | 031  | -001 |
| 2  | ** | 021 | -100 | 085  | -004 | 013  | 041  | 005  | -004 |
| 3  |    | 051 | -012 | 050  | 029  | 011  | 019  | -007 | -016 |
| 4  |    | 031 | -076 | 060  | -024 | 004  | 037  | -031 | 012  |
| 5  |    | 095 | -085 | 062  | 038  | -038 | 029  | -020 | -056 |
| 6  |    | 021 | -007 | 034  | -010 | -019 | 009  | -010 | -022 |
| 7  |    | 111 | -117 | 089  | -015 | 026  | 072  | -022 | 037  |
| 8  |    | 020 | -092 | 051  | 024  | -053 | 007  | 002  | -017 |
| 9  |    | 033 | -056 | 016  | -060 | -019 | 015  | -020 | -028 |
| 10 |    | 069 | 012  | 031  | -004 | -016 | 003  | -002 | -019 |
| 11 | *  | 056 | 009  | 023  | 018  | 006  | 025  | -015 | 027  |
| 12 |    | 061 | 001  | 024  | 026  | 000  | 035  | 004  | 001  |
| 13 |    | 258 | -012 | -028 | 127  | -031 | 006  | 021  | -017 |
| 14 |    | 002 | -048 | 022  | -007 | -018 | 008  | -014 | -021 |
| 15 |    | 055 | 014  | 049  | 025  | 003  | 056  | 012  | 038  |
| 16 | *  | 015 | -079 | 046  | -003 | 012  | 013  | -007 | -007 |
| 17 | *  | 045 | -030 | 013  | -010 | -002 | -029 | 015  | 003  |
| 18 | *  | 053 | -004 | 003  | 014  | 000  | 017  | -031 | 005  |
| 19 |    | 045 | 014  | 019  | 028  | -018 | 013  | 001  | -010 |
| 20 |    | 088 | 034  | 046  | -002 | 022  | 050  | -011 | 017  |
| 21 | *  | 185 | 001  | -001 | 087  | -015 | -004 | 015  | 010  |
| 22 |    | 125 | -033 | -003 | 037  | 006  | 017  | -003 | 029  |
| 23 | ** | 292 | 099  | 007  | 076  | 046  | 025  | -001 | 084  |
| 24 |    | 049 | -079 | 000  | -031 | 001  | 007  | -002 | -050 |
| 25 |    | 029 | -003 | 050  | 033  | 001  | 038  | -005 | -020 |
| 26 |    | 181 | -047 | 032  | -013 | -057 | -020 | -014 | -030 |
| 27 | ** | 203 | -157 | 022  | 134  | -009 | -024 | -038 | 044  |
| 28 |    | 062 | -138 | 043  | 017  | -030 | -027 | 044  | 003  |
| 29 | ** | 036 | -104 | 059  | 047  | 025  | 039  | -023 | 031  |
| 30 |    | 083 | -049 | 031  | 098  | -049 | 026  | 011  | -029 |
| 31 |    | 079 | -051 | 028  | 002  | 013  | 017  | 011  | -013 |
|    |    | 083 | -040 | 030  | 021  | -005 | 016  | -003 | 000  |
|    | *  | 071 | -022 | 018  | 021  | 000  | 005  | -005 | 008  |

41

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  | ** | -027 | -009 | 052  | 054 | -026 | 058  | -038 | -007 |
| 2  | ** | -061 | -051 | 063  | 087 | 005  | 028  | -018 | 008  |
| 3  |    | -008 | -053 | 038  | 077 | -022 | 002  | -019 | -037 |
| 4  |    | -076 | -072 | 043  | 021 | -044 | 031  | 021  | -037 |
| 5  |    | 017  | -060 | 062  | 128 | -058 | 044  | -002 | -027 |
| 6  |    | -017 | -030 | -016 | 079 | -036 | -013 | -015 | -042 |
| 7  |    | -008 | -069 | 088  | 111 | -006 | 030  | -067 | -017 |
| 8  |    | -028 | -025 | -001 | 095 | -065 | 054  | -014 | -044 |
| 9  |    | -015 | 058  | 037  | 118 | -015 | 027  | -017 | -006 |
| 10 |    | -029 | -052 | 030  | 064 | -004 | 029  | -029 | -013 |
| 11 | *  | -008 | 013  | -018 | 052 | -021 | -002 | -020 | -015 |
| 12 |    | -006 | 039  | 037  | 125 | -014 | 043  | -007 | -007 |
| 13 |    | -045 | -035 | 053  | 137 | -037 | 025  | -023 | 003  |
| 14 |    | 007  | 025  | 030  | 063 | -030 | -005 | -019 | -002 |
| 15 |    | -022 | -111 | 033  | 067 | -021 | 002  | -003 | 019  |
| 16 | *  | 044  | -023 | 015  | 092 | -049 | 028  | -018 | -024 |
| 17 | *  | 001  | -068 | 074  | 071 | -030 | 027  | -023 | 000  |
| 18 | *  | -013 | -020 | 023  | 059 | -033 | -013 | -023 | -017 |
| 19 |    | -021 | -032 | 043  | 056 | -021 | 019  | -007 | -001 |
| 20 |    | -015 | -026 | 054  | 070 | -029 | 014  | -020 | -002 |
| 21 | *  | 005  | -019 | 039  | 117 | -038 | 049  | -041 | 015  |
| 22 |    | 000  | 023  | -043 | 144 | -061 | 040  | -032 | 000  |
| 23 | ** | -252 | -136 | -081 | 278 | -113 | 087  | -068 | 010  |
| 24 |    | -059 | -010 | -045 | 074 | -045 | 016  | -014 | -051 |
| 25 |    | 030  | -039 | -031 | 098 | -038 | 055  | 009  | -049 |
| 26 |    | 068  | -100 | -018 | 226 | -023 | -015 | -029 | -033 |
| 27 | ** | -070 | -142 | 080  | 127 | -014 | 002  | -042 | -043 |
| 28 |    | -041 | -008 | -066 | 094 | -053 | 034  | 010  | 032  |
| 29 | ** | -036 | -062 | 022  | 104 | -016 | 058  | -049 | -042 |
| 30 |    | -011 | -032 | 032  | 104 | -088 | 024  | 002  | 012  |
| 31 |    | -025 | -017 | 013  | 107 | -041 | -012 | -027 | -007 |
|    |    | -022 | -039 | 019  | 098 | -035 | 025  | -020 | -013 |
|    | *  | 007  | -024 | 025  | 078 | -034 | 017  | -025 | -009 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3  | A4   | B4   |
|----|----|------|------|-----|------|------|-----|------|------|
| 1  | ** | -071 | -015 | 055 | 006  | 003  | 051 | -027 | 011  |
| 2  | ** | -043 | 010  | 026 | 040  | 011  | 008 | -012 | 010  |
| 3  |    | -038 | -018 | 024 | 026  | -015 | 017 | -020 | -006 |
| 4  |    | -049 | 005  | 009 | -004 | -015 | 024 | 015  | -021 |
| 5  |    | -050 | -014 | 026 | 011  | -010 | 020 | -009 | 003  |
| 6  |    | -018 | -039 | 029 | 014  | -011 | 021 | -026 | -011 |
| 7  |    | -033 | -004 | 057 | 004  | 015  | 001 | -030 | 003  |
| 8  |    | -029 | 014  | 030 | 009  | 012  | 049 | -020 | -004 |
| 9  |    | -005 | 006  | 073 | 041  | 004  | 028 | -014 | 010  |
| 10 |    | -045 | -038 | 061 | 000  | 022  | 026 | -023 | 015  |
| 11 | *  | -017 | 006  | 040 | 023  | -007 | 015 | -010 | -007 |
| 12 |    | -016 | -016 | 090 | 039  | 021  | 048 | -020 | 021  |
| 13 |    | -117 | -022 | 115 | -017 | 019  | 037 | -023 | 034  |
| 14 |    | -013 | -017 | 062 | 040  | -009 | 030 | -017 | 007  |
| 15 |    | -066 | -052 | 040 | 041  | 011  | 005 | -002 | 011  |
| 16 | *  | -015 | -054 | 045 | 045  | -008 | 038 | -019 | -005 |
| 17 | *  | -032 | -028 | 041 | 020  | -001 | 039 | -023 | 007  |
| 18 | *  | -030 | -037 | 034 | 014  | -015 | 013 | -016 | -003 |
| 19 |    | -046 | -054 | 032 | -012 | 003  | 018 | -018 | -003 |
| 20 |    | -024 | -045 | 043 | 026  | -028 | 009 | -020 | -008 |
| 21 | *  | -086 | -072 | 067 | -018 | -016 | 044 | -034 | -006 |
| 22 |    | -032 | -003 | 048 | 034  | -012 | 036 | -020 | 003  |
| 23 | ** |      |      |     |      |      |     |      |      |
| 24 |    |      |      |     |      |      |     |      |      |
| 25 |    | -004 | -023 | 043 | 057  | -008 | 049 | -012 | -021 |
| 26 |    | -087 | -071 | 085 | 103  | 000  | 011 | -029 | -012 |
| 27 | ** | -131 | 022  | 099 | -007 | 016  | 041 | -010 | -022 |
| 28 |    | -059 | -009 | 049 | 067  | -004 | 060 | -008 | 008  |
| 29 | ** | -052 | -022 | 077 | 047  | -010 | 050 | -043 | -021 |
| 30 |    | 004  | 046  | 058 | 096  | -032 | 058 | -010 | 027  |
| 31 |    | -061 | -056 | 068 | 049  | -012 | 015 | -021 | 018  |
|    |    | -040 | -019 | 051 | 031  | -002 | 026 | -017 | 002  |
|    | *  | -035 | -039 | 046 | 019  | -011 | 031 | -020 | -002 |

WATHEROO  
AUGUST 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0853-1-3

|    | 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  | 865 | 860  | 854 | 848 | 859 | 863 | 857  | 853  | 850  | 851 | 854 | 858 | 860 | 863 | 864 | 863 | 865 | 874 | 873 | 868 | 866 | 862 | 869 | 870 | 0 | 861  |
| 2  | 872 | 875  | 868 | 850 | 853 | 855 | 859  | 859  | 860  | 859 | 853 | 864 | 865 | 866 | 864 | 863 | 861 | 864 | 863 | 866 | 866 | 866 | 867 | 868 | 0 | 863  |
| 3  | 868 | 871  | 874 | 868 | 866 | 859 | 847  | 850  | 855  | 861 | 865 | 865 | 865 | 862 | 859 | 857 | 859 | 861 | 871 | 872 | 868 | 873 | 874 | 876 | 0 | 864  |
| 4  | 877 | 871  | 854 | 856 | 860 | 859 | 856  | 857  | 860  | 865 | 871 | 871 | 873 | 873 | 867 | 864 | 858 | 857 | 860 | 870 | 871 | 872 | 871 | 871 | 0 | 865  |
| 5  | 869 | 870  | 865 | 860 | 857 | 856 | 857  | 858  | 855  | 860 | 866 | 868 | 869 | 869 | 869 | 868 | 867 | 868 | 867 | 874 | 880 | 879 | 877 | 883 | 0 | 867  |
| 6  | 885 | 886  | 884 | 881 | 881 | 881 | 879  | 876  | 876  | 871 | 872 | 874 | 872 | 871 | 872 | 870 | 887 | 879 | 876 | 876 | 879 | 879 | 880 | 886 | 0 | 878  |
| 7  | 892 | 888  | 876 | 876 | 879 | 876 | 871  | 865  | 863  | 858 | 859 | 861 | 861 | 861 | 866 | 865 | 865 | 870 | 867 | 870 | 871 | 870 | 872 | 870 | 0 | 870  |
| 8  | 870 | 876  | 881 | 876 | 868 | 867 | 862  | 861  | 864  | 870 | 873 | 873 | 873 | 867 | 872 | 873 | 870 | 870 | 872 | 877 | 877 | 878 | 883 | 885 | 0 | 872  |
| 9  | 877 | 869  | 865 | 868 | 861 | 849 | 855  | 866  | 867  | 872 | 880 | 885 | 874 | 862 | 858 | 866 | 870 | 874 | 878 | 874 | 881 | 881 | 878 | 883 | 0 | 871  |
| 10 | 887 | 888  | 883 | 879 | 872 | 866 | 863  | 853  | 828  | 844 | 849 | 839 | 842 | 845 | 862 | 851 | 854 | 869 | 867 | 871 | 877 | 869 | 862 | 866 | 0 | 862  |
| 11 | 862 | 858  | 842 | 825 | 816 | 824 | 825  | 826  | 827  | 824 | 817 | 812 | 819 | 828 | 836 | 838 | 839 | 851 | 854 | 863 | 862 | 866 | 865 | 874 | 0 | 840  |
| 12 | **  | 876  | 869 | 850 | 834 | 821 | 808  | 797  | 789  | 763 | 788 | 783 | 804 | 826 | 818 | 825 | 834 | 835 | 842 | 851 | 864 | 862 | 867 | 869 | 1 | 827  |
| 13 |     | 851  | 843 | 844 | 839 | 845 | 848  | 845  | 848  | 857 | 853 | 859 | 862 | 860 | 860 | 857 | 863 | 860 | 860 | 857 | 863 | 860 | 860 | 869 | 0 | 855  |
| 14 |     | 868* | 857 | 854 | 845 | 848 | 838  | 841  | 850  | 856 | 857 | 859 | 859 | 860 | 859 | 862 | 866 | 867 | 868 | 873 | 868 | 870 | 873 | 877 | 0 | 859  |
| 15 |     | 880  | 880 | 876 | 873 | 863 | 855  | 849  | 849  | 858 | 862 | 859 | 858 | 863 | 863 | 864 | 865 | 863 | 868 | 868 | 862 | 865 | 865 | 872 | 0 | 864  |
| 16 |     | 868  | 871 | 877 | 871 | 865 | 856  | 857  | 857  | 850 | 836 | 847 | 853 | 862 | 857 | 855 | 853 | 856 | 857 | 858 | 862 | 863 | 865 | 868 | 0 | 859  |
| 17 | *   | 874  | 878 | 877 | 870 | 868 | 865* | 861* | 867  | 867 | 869 | 868 | 863 | 853 | 859 | 862 | 865 | 866 | 867 | 868 | 870 | 870 | 871 | 875 | 0 | 867  |
| 18 |     | 879  | 880 | 872 | 874 | 871 | 868  | 862* | 860* | 863 | 868 | 869 | 870 | 872 | 872 | 873 | 868 | 868 | 870 | 870 | 871 | 873 | 876 | 879 | 0 | 871  |
| 19 | *   | 880  | 882 | 880 | 876 | 872 | 866  | 864  | 862  | 865 | 869 | 873 | 867 | 868 | 866 | 870 | 871 | 872 | 875 | 875 | 875 | 876 | 878 | 882 | 0 | 872  |
| 20 | *   | 888  | 890 | 888 | 881 | 874 | 868  | 866  | 869  | 870 | 873 | 873 | 872 | 871 | 871 | 871 | 872 | 873 | 875 | 875 | 875 | 877 | 882 | 888 | 0 | 875  |
| 21 | *   | 891  | 896 | 898 | 892 | 880 | 875  | 870  | 864  | 868 | 873 | 872 | 874 | 873 | 871 | 872 | 873 | 875 | 877 | 878 | 878 | 879 | 882 | 887 | 0 | 878  |
| 22 | *   | 890  | 891 | 891 | 885 | 873 | 865  | 864  | 865  | 865 | 865 | 868 | 868 | 867 | 864 | 864 | 864 | 866 | 866 | 869 | 872 | 877 | 880 | 884 | 0 | 872  |
| 23 | **  | 895  | 902 | 897 | 893 | 888 | 882  | 874  | 872  | 861 | 854 | 846 | 808 | 834 | 857 | 837 | 829 | 822 | 844 | 847 | 858 | 858 | 861 | 867 | 1 | 858  |
| 24 | **  | 862  | 857 | 852 | 837 | 822 | 816  | 807  | 813  | 814 | 834 | 847 | 870 | 854 | 836 | 839 | 883 | 862 | 849 | 860 | 870 | 856 | 855 | 846 | 1 | 846  |
| 25 |     | 869  | 870 | 868 | 845 | 836 | 830  | 816  | 826  | 830 | 808 | 827 | 840 | 832 | 864 | 842 | 850 | 856 | 855 | 853 | 853 | 856 | 859 | 857 | 1 | 845  |
| 26 |     | 860  | 863 | 873 | 860 | 828 | 834  | 833  | 829  | 838 | 856 | 832 | 849 | 855 | 843 | 849 | 856 | 873 | 870 | 864 | 864 | 868 | 867 | 869 | 0 | 854  |
| 27 | **  | 868  | 853 | 827 | 828 | 848 | 840  | 833  | 825  | 829 | 832 | 827 | 828 | 824 | 846 | 837 | 843 | 857 | 856 | 856 | 855 | 853 | 848 | 848 | 1 | 842  |
| 28 |     | 861  | 865 | 853 | 860 | 849 | 819  | 836  | 836  | 838 | 839 | 843 | 847 | 861 | 851 | 864 | 854 | 849 | 851 | 852 | 853 | 853 | 858 | 863 | 1 | 851  |
| 29 |     | 870  | 885 | 880 | 863 | 834 | 816  | 801  | 814  | 817 | 820 | 811 | 831 | 852 | 856 | 841 | 844 | 854 | 856 | 855 | 862 | 864 | 863 | 865 | 1 | 845  |
| 30 | **  | 849  | 828 | 833 | 851 | 841 | 821  | 793  | 793  | 814 | 822 | 825 | 852 | 850 | 852 | 883 | 849 | 849 | 855 | 851 | 854 | 852 | 846 | 852 | 1 | 840  |
| 31 |     |      |     |     |     |     |      |      |      |     |     |     | 849 | 865 | 829 | 833 | 840 | 841 | 844 | 850 | 846 | 856 | 852 | 851 |   | 846* |
|    | *   | 873  | 872 | 868 | 862 | 857 | 851  | 847  | 847  | 848 | 850 | 851 | 855 | 857 | 858 | 857 | 859 | 861 | 863 | 865 | 867 | 867 | 868 | 871 |   | 860  |
|    | **  | 885  | 887 | 887 | 881 | 873 | 868  | 865  | 865  | 866 | 869 | 871 | 871 | 869 | 866 | 866 | 869 | 870 | 872 | 873 | 874 | 876 | 879 | 883 |   | 873  |
|    |     | 870  | 862 | 852 | 849 | 844 | 833  | 821  | 818  | 820 | 821 | 827 | 826 | 832 | 838 | 842 | 844 | 848 | 849 | 853 | 860 | 856 | 855 | 856 |   | 843  |

WATHEROO  
AUGUST 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  | 471 | 480 | 479 | 475 | 470 | 458 | 450  | 448  | 450  | 455 | 459 | 462 | 469 | 480 | 469 | 468 | 467 | 450 | 456 | 466 | 458 | 450 | 460 | 460 | 0   | 463  |     |     |
|    | 2  | 467 | 472 | 477 | 468 | 460 | 452 | 442  | 447  | 447  | 448 | 460 | 466 | 469 | 469 | 469 | 468 | 466 | 460 | 460 | 439 | 455 | 458 | 460 | 459 | 0   | 460  |     |     |
|    | 3  | 463 | 476 | 478 | 474 | 469 | 464 | 457  | 451  | 450  | 455 | 462 | 466 | 468 | 468 | 469 | 468 | 465 | 465 | 455 | 457 | 459 | 457 | 457 | 456 | 0   | 463  |     |     |
|    | 4  | 469 | 480 | 480 | 485 | 479 | 459 | 446  | 437  | 438  | 448 | 459 | 461 | 464 | 469 | 478 | 495 | 486 | 470 | 464 | 448 | 449 | 459 | 464 | 464 | 0   | 465  |     |     |
|    | 5  | 477 | 487 | 499 | 498 | 479 | 469 | 450  | 444  | 444  | 444 | 446 | 457 | 462 | 467 | 467 | 466 | 466 | 466 | 464 | 461 | 447 | 440 | 456 | 455 | 458 | 0    | 464 |     |
|    | 6  | 463 | 474 | 479 | 482 | 478 | 464 | 451  | 448  | 448  | 457 | 459 | 463 | 463 | 466 | 468 | 469 | 471 | 460 | 460 | 458 | 458 | 457 | 455 | 455 | 0   | 463  |     |     |
|    | 7  | 459 | 472 | 469 | 474 | 478 | 478 | 459  | 452  | 448  | 448 | 457 | 456 | 461 | 467 | 469 | 469 | 469 | 471 | 462 | 460 | 464 | 458 | 458 | 457 | 0   | 463  |     |     |
|    | 8  | 466 | 474 | 478 | 477 | 476 | 468 | 458  | 447  | 446  | 448 | 456 | 461 | 459 | 467 | 468 | 469 | 469 | 467 | 462 | 458 | 461 | 458 | 458 | 458 | 0   | 463  |     |     |
|    | 9  | 470 | 479 | 480 | 480 | 461 | 452 | 446  | 448  | 444  | 449 | 458 | 461 | 465 | 469 | 475 | 469 | 468 | 459 | 468 | 462 | 447 | 447 | 455 | 458 | 0   | 461  |     |     |
|    | 10 | 466 | 479 | 487 | 487 | 478 | 457 | 446  | 426  | 417  | 428 | 443 | 457 | 465 | 466 | 465 | 478 | 471 | 487 | 478 | 462 | 461 | 465 | 450 | 443 | 0   | 460  |     |     |
| 43 | 11 | 457 | 468 | 477 | 462 | 457 | 450 | 447  | 435  | 427  | 435 | 445 | 454 | 468 | 476 | 481 | 477 | 497 | 488 | 472 | 447 | 464 | 462 | 446 | 447 | 0   | 460  |     |     |
|    | 12 | **  | 448 | 442 | 444 | 460 | 461 | 468  | 453  | 431  | 425 | 443 | 454 | 460 | 471 | 493 | 467 | 495 | 480 | 456 | 442 | 437 | 456 | 456 | 457 | 1   | 457  |     |     |
|    | 13 |     | 458 | 468 | 473 | 469 | 459 | 454  | 448  | 448  | 448 | 458 | 463 | 465 | 467 | 467 | 476 | 475 | 468 | 467 | 464 | 465 | 437 | 455 | 447 | 0   | 460  |     |     |
|    | 14 |     | 468 | 479 | 488 | 488 | 489 | 478  | 459  | 446  | 441 | 450 | 461 | 457 | 458 | 468 | 468 | 467 | 468 | 462 | 456 | 460 | 459 | 462 | 461 | 462 | 0    | 465 |     |
|    | 15 |     | 470 | 479 | 493 | 499 | 498 | 483  | 467  | 454  | 450 | 455 | 459 | 458 | 465 | 465 | 465 | 464 | 464 | 461 | 464 | 471 | 446 | 454 | 457 | 456 | 0    | 467 |     |
|    | 16 | 455 | 470 | 487 | 486 | 478 | 468 | 458  | 447  | 442  | 447 | 450 | 457 | 468 | 468 | 473 | 476 | 473 | 467 | 463 | 461 | 459 | 457 | 457 | 453 | 0   | 463  |     |     |
|    | 17 | *   | 461 | 477 | 481 | 483 | 478 | 468* | 449* | 440  | 444 | 451 | 458 | 459 | 462 | 471 | 468 | 467 | 464 | 460 | 457 | 457 | 457 | 457 | 458 | 0   | 462  |     |     |
|    | 18 |     | 465 | 473 | 475 | 485 | 488 | 478  | 466* | 453* | 448 | 454 | 457 | 459 | 461 | 462 | 461 | 458 | 458 | 458 | 456 | 454 | 456 | 454 | 453 | 451 | 0    | 462 |     |
|    | 19 | *   | 455 | 467 | 473 | 470 | 467 | 462  | 456  | 449  | 449 | 456 | 459 | 462 | 463 | 468 | 463 | 460 | 463 | 457 | 455 | 455 | 456 | 456 | 456 | 454 | 0    | 460 |     |
|    | 20 | *   | 461 | 471 | 478 | 478 | 467 | 461  | 447  | 443  | 446 | 454 | 457 | 457 | 460 | 461 | 462 | 459 | 459 | 457 | 457 | 456 | 456 | 455 | 452 | 0   | 459  |     |     |
|    | 21 | *   | 460 | 476 | 486 | 487 | 482 | 466  | 450  | 441  | 440 | 445 | 453 | 456 | 458 | 461 | 463 | 464 | 461 | 457 | 457 | 456 | 456 | 453 | 448 | 0   | 460  |     |     |
|    | 22 | *   | 458 | 475 | 487 | 495 | 487 | 465  | 446  | 437  | 437 | 444 | 454 | 457 | 459 | 460 | 465 | 463 | 463 | 463 | 459 | 456 | 450 | 447 | 447 | 450 | 0    | 459 |     |
|    | 23 | **  | 466 | 478 | 484 | 477 | 476 | 466  | 456  | 437  | 422 | 433 | 430 | 451 | 455 | 468 | 498 | 498 | 506 | 508 | 507 | 514 | 477 | 445 | 405 | 1   | 468  |     |     |
|    | 24 | **  | 443 | 447 | 447 | 457 | 470 | 470  | 466  | 466  | 444 | 443 | 462 | 465 | 467 | 490 | 478 | 466 | 470 | 451 | 480 | 487 | 448 | 477 | 469 | 454 | 416  | 1   | 462 |
|    | 25 |     | 441 | 459 | 476 | 487 | 490 | 481  | 467  | 445  | 456 | 498 | 461 | 479 | 479 | 490 | 465 | 469 | 462 | 456 | 458 | 461 | 456 | 451 | 451 | 451 | 1    | 466 |     |
|    | 26 | 459 | 474 | 486 | 487 | 478 | 470 | 462  | 444  | 445  | 447 | 455 | 455 | 470 | 487 | 468 | 469 | 467 | 462 | 478 | 466 | 446 | 424 | 418 | 446 | 0   | 461  |     |     |
|    | 27 | **  | 465 | 467 | 477 | 490 | 495 | 484  | 464  | 441  | 437 | 456 | 437 | 478 | 480 | 483 | 467 | 472 | 477 | 458 | 478 | 458 | 462 | 462 | 447 | 436 | 1    | 465 |     |
|    | 28 |     | 446 | 468 | 491 | 497 | 490 | 477  | 465  | 449  | 441 | 473 | 463 | 481 | 456 | 466 | 463 | 456 | 466 | 467 | 465 | 464 | 462 | 439 | 444 | 443 | 1    | 464 |     |
|    | 29 |     | 457 | 467 | 477 | 487 | 477 | 467  | 452  | 441  | 434 | 431 | 487 | 450 | 455 | 457 | 467 | 477 | 475 | 462 | 467 | 470 | 448 | 446 | 456 | 456 | 1    | 461 |     |
|    | 30 | **  | 470 | 470 | 474 | 476 | 479 | 468  | 459  | 481  | 491 | 462 | 453 | 470 | 468 | 467 | 487 | 486 | 468 | 469 | 468 | 463 | 456 | 457 | 454 | 449 | 1    | 469 |     |
| 31 |    |     |     |     |     |     |     |      |      |      |     |     |     | 495 | 490 | 508 | 471 | 477 | 470 | 467 | 456 | 456 | 461 | 456 | 446 |     | 471* |     |     |
|    | *  | 461 | 472 | 479 | 481 | 476 | 467 | 455  | 446  | 443  | 452 | 456 | 461 | 466 | 470 | 472 | 470 | 470 | 467 | 465 | 459 | 455 | 456 | 453 | 450 |     | 463  |     |     |
|    | *  | 459 | 473 | 481 | 483 | 476 | 464 | 450  | 442  | 443  | 450 | 456 | 458 | 460 | 464 | 464 | 463 | 462 | 459 | 457 | 456 | 455 | 454 | 454 | 452 |     | 460  |     |     |
|    | ** | 458 | 461 | 465 | 472 | 476 | 471 | 460  | 451  | 444  | 457 | 448 | 463 | 471 | 473 | 482 | 479 | 479 | 479 | 479 | 465 | 461 | 464 | 451 | 433 |     | 464  |     |     |

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52000 PLUS TABULAR VALUES IN GAMMAS

2-0853-3-3

|    |    | 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  | 157 | 161 | 159 | 153 | 148 | 143 | 144  | 147  | 152  | 157 | 157 | 158 | 160 | 166 | 157 | 159 | 157 | 148 | 152 | 154 | 150 | 148 | 148 | 148 | 0   | 153  |     |
|    | 2  | 156 | 157 | 156 | 153 | 150 | 140 | 137  | 144  | 151  | 155 | 163 | 161 | 160 | 160 | 160 | 160 | 159 | 158 | 157 | 147 | 154 | 154 | 154 | 153 | 0   | 154  |     |
|    | 3  | 158 | 161 | 163 | 152 | 144 | 143 | 149  | 152  | 154  | 156 | 157 | 157 | 157 | 158 | 160 | 159 | 159 | 158 | 153 | 152 | 155 | 153 | 152 | 153 | 0   | 155  |     |
|    | 4  | 162 | 170 | 170 | 165 | 153 | 144 | 143  | 143  | 153  | 161 | 162 | 161 | 160 | 160 | 165 | 173 | 167 | 159 | 155 | 149 | 150 | 154 | 155 | 157 | 0   | 158  |     |
|    | 5  | 162 | 162 | 160 | 153 | 145 | 140 | 136  | 141  | 153  | 157 | 160 | 161 | 161 | 161 | 158 | 157 | 156 | 156 | 156 | 150 | 147 | 154 | 151 | 151 | 0   | 154  |     |
|    | 6  | 158 | 160 | 160 | 157 | 152 | 146 | 144  | 148  | 156  | 163 | 163 | 162 | 164 | 164 | 164 | 165 | 160 | 154 | 158 | 158 | 159 | 159 | 158 | 156 | 0   | 158  |     |
|    | 7  | 163 | 168 | 163 | 159 | 157 | 155 | 151  | 155  | 160  | 168 | 171 | 169 | 172 | 172 | 168 | 168 | 167 | 164 | 160 | 161 | 162 | 162 | 163 | 164 | 0   | 163  |     |
|    | 8  | 176 | 180 | 179 | 172 | 163 | 155 | 150  | 152  | 160  | 168 | 170 | 173 | 173 | 176 | 172 | 170 | 168 | 166 | 164 | 162 | 164 | 164 | 163 | 164 | 0   | 167  |     |
|    | 9  | 172 | 172 | 171 | 165 | 150 | 146 | 146  | 151  | 157  | 163 | 167 | 167 | 172 | 176 | 180 | 171 | 166 | 162 | 161 | 161 | 154 | 156 | 161 | 164 | 0   | 163  |     |
|    | 10 | 173 | 177 | 176 | 171 | 160 | 152 | 151  | 151  | 164  | 172 | 177 | 192 | 189 | 192 | 181 | 186 | 178 | 177 | 172 | 163 | 163 | 167 | 164 | 164 | 0   | 171  |     |
| 44 | 11 | 176 | 182 | 186 | 181 | 176 | 167 | 163  | 164  | 171  | 181 | 190 | 202 | 207 | 201 | 197 | 190 | 195 | 181 | 170 | 155 | 166 | 164 | 160 | 161 | 0   | 179  |     |
|    | 12 | **  | 170 | 173 | 182 | 190 | 185 | 188  | 185  | 183  | 191 | 233 | 217 | 215 | 214 | 207 | 201 | 206 | 190 | 171 | 165 | 160 | 170 | 171 | 175 | 1   | 190  |     |
|    | 13 |     | 187 | 198 | 201 | 196 | 182 | 175  | 171  | 174  | 175 | 184 | 184 | 184 | 183 | 184 | 189 | 187 | 180 | 179 | 176 | 178 | 164 | 174 | 171 | 0   | 181  |     |
|    | 14 |     | 195 | 206 | 204 | 196 | 195 | 178  | 163  | 160  | 168 | 181 | 189 | 187 | 189 | 192 | 193 | 190 | 187 | 184 | 180 | 180 | 181 | 181 | 180 | 181 | 0    | 185 |
|    | 15 |     | 182 | 186 | 194 | 192 | 186 | 177  | 166  | 164  | 172 | 178 | 181 | 185 | 189 | 189 | 187 | 187 | 186 | 185 | 184 | 184 | 174 | 177 | 177 | 178 | 0    | 182 |
|    | 16 |     | 182 | 191 | 195 | 194 | 186 | 178  | 171  | 166  | 171 | 182 | 191 | 191 | 195 | 189 | 194 | 195 | 193 | 186 | 184 | 183 | 181 | 179 | 179 | 180 | 0    | 185 |
|    | 17 | *   | 186 | 191 | 189 | 183 | 171 | 164* |      | 160* | 164 | 172 | 175 | 177 | 180 | 188 | 185 | 183 | 179 | 177 | 175 | 175 | 175 | 175 | 174 | 174 | 0    | 177 |
|    | 18 |     | 180 | 185 | 189 | 189 | 185 | 181  | 177* | 170* | 166 | 171 | 173 | 173 | 176 | 177 | 175 | 175 | 176 | 177 | 176 | 174 | 175 | 173 | 171 | 171 | 0    | 176 |
|    | 19 | *   | 176 | 181 | 183 | 181 | 177 | 168  | 166  | 165  | 168 | 175 | 176 | 177 | 177 | 180 | 180 | 177 | 177 | 178 | 172 | 173 | 173 | 173 | 172 | 168 | 0    | 175 |
|    | 20 | *   | 171 | 175 | 176 | 173 | 168 | 162  | 158  | 160  | 168 | 174 | 176 | 176 | 176 | 175 | 175 | 174 | 172 | 172 | 172 | 172 | 171 | 170 | 168 | 165 | 0    | 171 |
|    | 21 | *   | 170 | 174 | 179 | 179 | 174 | 163  | 158  | 158  | 163 | 172 | 176 | 177 | 177 | 177 | 175 | 173 | 171 | 171 | 172 | 172 | 172 | 170 | 169 | 0   | 172  |     |
|    | 22 | *   | 174 | 180 | 184 | 179 | 167 | 160  | 154  | 153  | 163 | 171 | 176 | 177 | 177 | 177 | 177 | 175 | 174 | 172 | 171 | 169 | 168 | 167 | 165 | 169 | 0    | 171 |
|    | 23 | **  | 173 | 174 | 175 | 167 | 158 | 150  | 149  | 150  | 157 | 172 | 179 | 210 | 214 | 206 | 204 | 204 | 205 | 204 | 190 | 187 | 163 | 165 | 152 | 138 | 1    | 177 |
|    | 24 | **  | 160 | 167 | 167 | 171 | 186 | 180  | 181  | 181  | 176 | 188 | 185 | 190 | 197 | 190 | 184 | 183 | 160 | 178 | 183 | 159 | 170 | 169 | 164 | 152 | 1    | 176 |
|    | 25 |     | 159 | 172 | 181 | 179 | 175 | 169  | 170  | 162  | 175 | 213 | 186 | 187 | 187 | 195 | 165 | 174 | 167 | 163 | 165 | 165 | 165 | 165 | 165 | 170 | 1    | 174 |
|    | 26 |     | 178 | 180 | 182 | 180 | 172 | 160  | 154  | 156  | 166 | 167 | 170 | 173 | 189 | 195 | 186 | 179 | 174 | 164 | 171 | 165 | 158 | 150 | 153 | 170 | 0    | 171 |
|    | 27 | **  | 180 | 185 | 196 | 197 | 186 | 170  | 161  | 160  | 169 | 186 | 179 | 191 | 202 | 203 | 188 | 188 | 187 | 167 | 176 | 164 | 166 | 168 | 166 | 166 | 1    | 179 |
|    | 28 |     | 171 | 179 | 189 | 189 | 180 | 172  | 158  | 155  | 161 | 185 | 179 | 188 | 177 | 180 | 180 | 175 | 178 | 176 | 171 | 169 | 168 | 159 | 160 | 161 | 1    | 173 |
|    | 29 |     | 170 | 172 | 176 | 179 | 175 | 171  | 176  | 174  | 174 | 177 | 213 | 186 | 184 | 181 | 184 | 192 | 187 | 172 | 172 | 172 | 159 | 155 | 162 | 163 | 1    | 176 |
|    | 30 | **  | 178 | 180 | 180 | 178 | 176 | 172  | 176  | 193  | 202 | 179 | 174 | 181 | 176 | 176 | 193 | 171 | 176 | 176 | 172 | 168 | 165 | 166 | 165 | 165 | 1    | 177 |
| 31 |    |     |     |     |     |     |     |      |      |      |     |     |     | 197 | 182 | 203 | 179 | 178 | 176 | 172 | 164 | 164 | 164 | 162 | 162 |     | 175* |     |
|    |    | 172 | 177 | 179 | 176 | 169 | 162 | 159  | 160  | 166  | 175 | 177 | 180 | 182 | 182 | 181 | 178 | 176 | 172 | 170 | 166 | 164 | 165 | 164 | 164 | 164 |      | 172 |
|    | *  | 175 | 180 | 182 | 179 | 171 | 163 | 159* | 159  | 165  | 173 | 176 | 177 | 177 | 177 | 179 | 179 | 177 | 175 | 174 | 172 | 172 | 172 | 171 | 170 | 169 |      | 173 |
|    | ** | 172 | 176 | 180 | 181 | 178 | 172 | 170  | 173  | 179  | 192 | 187 | 197 | 201 | 196 | 197 | 189 | 187 | 183 | 178 | 169 | 165 | 168 | 164 | 159 |     |      | 180 |

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FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0853-1-3

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DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0853-2-3

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AUGUST 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0853-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 028  | -076 | -010 | 003  | 007  | -015 | 047  | -003 |
| 2  |    | 030  | -038 | 040  | 002  | 021  | 004  | 011  | 040  |
| 3  |    | 067  | -034 | 048  | -002 | -041 | 025  | -002 | -014 |
| 4  |    | 005  | -033 | 075  | -024 | -012 | -017 | 011  | 011  |
| 5  |    | 042  | -077 | 051  | -020 | -007 | -016 | 001  | -001 |
| 6  |    | 057  | 009  | -005 | 015  | 015  | 010  | 015  | -009 |
| 7  |    | 095  | 023  | 000  | 040  | 007  | 007  | 017  | 017  |
| 8  |    | 047  | -033 | 041  | 000  | -018 | 008  | -014 | -021 |
| 9  |    | 023  | -058 | 061  | -063 | -014 | 047  | 013  | -026 |
| 10 |    | 184  | -010 | -024 | 067  | -029 | 025  | 005  | 029  |
| 11 |    | 195  | -151 | 028  | -051 | 064  | -001 | 001  | 039  |
| 12 | ** | 375  | -212 | 071  | 085  | 006  | -028 | 011  | 046  |
| 13 |    | -029 | -079 | 029  | -037 | 012  | -017 | 017  | -018 |
| 14 |    | 044  | -121 | 050  | -029 | 010  | 012  | 015  | -017 |
| 15 |    | 075  | -027 | 040  | 051  | -005 | 040  | 001  | 005  |
| 16 |    | 096  | 015  | 007  | 046  | 002  | -015 | -020 | 033  |
| 17 | *  | 058  | 013  | 020  | -010 | 001  | 037  | -001 | -009 |
| 18 |    | 037  | -020 | 044  | 025  | -004 | 002  | 001  | -007 |
| 19 | *  | 062  | -019 | 032  | 007  | -006 | 029  | -001 | -010 |
| 20 | *  | 074  | -004 | 049  | 021  | 006  | 030  | 001  | 005  |
| 21 | *  | 094  | 011  | 044  | 045  | -020 | 040  | -005 | 003  |
| 22 | *  | 102  | 023  | 065  | 029  | -005 | 029  | -008 | 008  |
| 23 | ** | 263  | 216  | -035 | 064  | 057  | -003 | -094 | 063  |
| 24 | ** | 045  | -200 | 103  | 029  | -050 | 077  | 020  | -012 |
| 25 |    | 143  | -118 | 062  | 078  | 005  | 033  | 000  | 033  |
| 26 |    | 100  | -121 | 051  | 002  | -016 | 069  | -004 | 008  |
| 27 | ** | 086  | -089 | 003  | -019 | -004 | 020  | 061  | -012 |
| 28 |    | 048  | -075 | 078  | 053  | 004  | 021  | -020 | 002  |
| 29 |    | 221  | -148 | 099  | 111  | -016 | 052  | -063 | 058  |
| 30 | ** | 038  | -214 | 061  | 101  | -054 | -008 | -038 | -064 |
| 31 |    |      |      |      |      |      |      |      |      |
|    | *  | 089  | -050 | 040  | 020  | -005 | 016  | -001 | 007  |
|    |    | 079  | 004  | 043  | 018  | -005 | 033  | -003 | -002 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  |    | 020  | -003 | 056  | 106 | -034 | 015  | -021 | 026  |
| 2  |    | 007  | -025 | 071  | 101 | -011 | 020  | -011 | -014 |
| 3  |    | 008  | 006  | 024  | 091 | -033 | 016  | -012 | -003 |
| 4  |    | 030  | -054 | 028  | 186 | 001  | 020  | -026 | -070 |
| 5  |    | 068  | 047  | 038  | 184 | -043 | 053  | -005 | -017 |
| 6  |    | 022  | 006  | 008  | 109 | -044 | 027  | -029 | -022 |
| 7  |    | 028  | -007 | -036 | 094 | -035 | -013 | 003  | -018 |
| 8  |    | 042  | -008 | -006 | 109 | -034 | 009  | -005 | -015 |
| 9  |    | 020  | -026 | 039  | 130 | -019 | 051  | -009 | 023  |
| 10 |    | 095  | -100 | -039 | 195 | -090 | 049  | -001 | -021 |
| 11 |    | -004 | -146 | -020 | 173 | -015 | 017  | -002 | -009 |
| 12 | ** | -075 | -088 | -021 | 119 | 026  | -036 | 013  | -111 |
| 13 |    | -040 | -035 | 018  | 104 | -014 | 048  | -012 | -001 |
| 14 |    | 075  | 031  | -002 | 133 | -058 | 000  | -017 | -035 |
| 15 |    | 064  | 080  | -036 | 141 | -074 | 025  | -002 | -012 |
| 16 |    | 029  | -015 | -027 | 145 | -057 | 000  | -029 | -013 |
| 17 | *  | 041  | 005  | 020  | 126 | -059 | 013  | -026 | -021 |
| 18 |    | 040  | 073  | -023 | 099 | -061 | 000  | 002  | -016 |
| 19 | *  | 003  | 011  | 016  | 069 | -040 | 006  | -014 | -008 |
| 20 | *  | 038  | 009  | 020  | 087 | -051 | 032  | -028 | -009 |
| 21 | *  | 063  | 022  | -005 | 136 | -076 | 024  | -034 | -016 |
| 22 | *  | 054  | 025  | -012 | 169 | -086 | 048  | -023 | -030 |
| 23 | ** | 040  | -231 | -192 | 203 | -091 | 054  | -035 | 054  |
| 24 | ** | -109 | -049 | -065 | 010 | -110 | -037 | 021  | 010  |
| 25 |    | -085 | 071  | -003 | 079 | -108 | 001  | -035 | -040 |
| 26 |    | -036 | 024  | -052 | 198 | -079 | 066  | 023  | 070  |
| 27 | ** | -004 | 003  | -042 | 162 | -127 | -021 | 015  | -009 |
| 28 |    | -012 | 070  | -054 | 115 | -125 | 070  | -017 | -033 |
| 29 |    | 031  | -022 | -027 | 138 | -059 | 043  | -001 | -061 |
| 30 | ** | -049 | 030  | -040 | 072 | 031  | 009  | -051 | 039  |
| 31 |    |      |      |      |     |      |      |      |      |
|    | *  | 012  | -011 | -011 | 129 | -053 | 018  | -012 | -010 |
|    |    | 040  | 014  | 007  | 118 | -061 | 025  | -026 | -017 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  |    | -031 | -018 | 046  | 034 | -006 | 028  | -019 | 023  |
| 2  |    | -026 | -047 | 053  | 024 | -005 | 034  | -016 | -017 |
| 3  |    | -013 | -026 | 033  | 019 | 017  | 030  | -018 | 017  |
| 4  |    | -009 | -029 | 055  | 071 | 016  | 051  | -038 | -020 |
| 5  |    | -020 | -037 | 067  | 030 | -001 | 051  | -012 | 003  |
| 6  |    | -023 | -039 | 049  | 013 | -009 | 020  | -031 | -002 |
| 7  |    | -033 | -033 | 054  | 015 | -003 | 018  | -009 | -006 |
| 8  |    | 000  | -023 | 071  | 058 | -016 | 045  | -021 | 008  |
| 9  |    | -027 | -048 | 082  | 064 | 012  | 033  | -020 | 022  |
| 10 |    | -075 | -070 | 091  | 073 | -022 | 044  | -008 | -002 |
| 11 |    | -133 | -020 | 083  | 117 | -028 | 035  | -007 | -013 |
| 12 | ** | -232 | 039  | 063  | 054 | 009  | 028  | -027 | -076 |
| 13 |    | -002 | 026  | 041  | 088 | -009 | 058  | -031 | 012  |
| 14 |    | 031  | -019 | 070  | 109 | -043 | 051  | -028 | -014 |
| 15 |    | -002 | -031 | 028  | 077 | -040 | 035  | -011 | -011 |
| 16 |    | -021 | -037 | 039  | 080 | -038 | 034  | -018 | -023 |
| 17 | *  |      |      |      |     |      |      |      |      |
| 18 |    | 033  | 021  | -008 | 060 | -031 | 015  | -002 | 003  |
| 19 | *  | -003 | -015 | 024  | 047 | -021 | 025  | -021 | -003 |
| 20 | *  | -017 | -029 | 035  | 023 | -023 | 035  | -002 | -001 |
| 21 | *  | -006 | -029 | 039  | 040 | -039 | 023  | -025 | -015 |
| 22 | *  | -005 | -032 | 056  | 061 | -028 | 051  | -023 | -003 |
| 23 | ** | -183 | -181 | 046  | 132 | -060 | 077  | 016  | 027  |
| 24 | ** | -127 | 034  | -005 | 012 | -052 | -017 | 010  | 005  |
| 25 |    | -091 | 054  | 065  | 000 | -045 | 040  | -036 | -022 |
| 26 |    | -050 | -014 | 069  | 121 | -019 | 032  | -007 | 041  |
| 27 | ** | -064 | 006  | 078  | 125 | -057 | 033  | -034 | -003 |
| 28 |    | -037 | 007  | 030  | 085 | -059 | 068  | -024 | -025 |
| 29 |    | -116 | 018  | 019  | 050 | -004 | 049  | -002 | -033 |
| 30 | ** | -057 | 055  | -007 | 015 | 042  | 022  | -029 | 046  |
| 31 |    |      |      |      |     |      |      |      |      |
|    | *  | -046 | -020 | 049  | 061 | -019 | 035  | -017 | 000  |
|    |    | -004 | -031 | 044  | 049 | -025 | 034  | -024 | -003 |



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|    |    | 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  | 853 | 858 | 862 | 865 | 859 | 846 | 838 | 844 | 839 | 847 | 852 | 844 | 869 | 853 | 843 | 857 | 845 | 846 | 852 | 856 | 854 | 856 | 859 | 868 | 0 | 853 |
|    | 2  | 873 | 861 | 867 | 875 | 870 | 852 | 833 | 828 | 838 | 849 | 846 | 848 | 847 | 860 | 850 | 868 | 848 | 848 | 848 | 846 | 848 | 851 | 853 | 859 | 0 | 853 |
|    | 3  | **  | 872 | 881 | 884 | 883 | 875 | 860 | 859 | 857 | 853 | 851 | 843 | 834 | 837 | 838 | 843 | 840 | 848 | 852 | 862 | 869 | 864 | 856 | 861 | 1 | 857 |
|    | 4  | **  | 822 | 839 | 810 | 797 | 815 | 799 | 795 | 788 | 779 | 805 | 815 | 806 | 797 | 787 | 795 | 813 | 829 | 823 | 841 | 845 | 850 | 858 | 858 | 1 | 817 |
|    | 5  | **  | 822 | 820 | 836 | 830 | 828 | 825 | 825 | 827 | 824 | 834 | 841 | 844 | 845 | 847 | 848 | 848 | 851 | 854 | 854 | 855 | 857 | 862 | 865 | 0 | 842 |
|    | 6  |     | 874 | 868 | 863 | 857 | 847 | 840 | 838 | 805 | 817 | 845 | 852 | 851 | 837 | 836 | 844 | 849 | 850 | 852 | 855 | 857 | 859 | 865 | 866 | 0 | 850 |
|    | 7  |     | 873 | 872 | 872 | 867 | 856 | 841 | 831 | 843 | 850 | 842 | 829 | 840 | 858 | 859 | 852 | 856 | 854 | 866 | 856 | 855 | 856 | 859 | 865 | 0 | 855 |
|    | 8  |     | 866 | 871 | 869 | 861 | 848 | 843 | 841 | 845 | 847 | 841 | 852 | 855 | 856 | 858 | 855 | 862 | 856 | 859 | 872 | 868 | 865 | 866 | 868 | 0 | 858 |
|    | 9  | *   | 873 | 874 | 872 | 874 | 866 | 849 | 849 | 851 | 857 | 865 | 871 | 870 | 869 | 869 | 869 | 867 | 865 | 868 | 870 | 870 | 868 | 869 | 873 | 0 | 867 |
|    | 10 |     | 884 | 887 | 887 | 882 | 875 | 868 | 869 | 865 | 864 | 863 | 867 | 868 | 868 | 874 | 873 | 870 | 874 | 872 | 870 | 868 | 871 | 876 | 877 | 0 | 874 |
|    | 11 |     | 896 | 898 | 917 | 903 | 889 | 870 | 852 | 842 | 834 | 852 | 853 | 849 | 853 | 857 | 859 | 863 | 866 | 869 | 869 | 876 | 877 | 876 | 881 | 0 | 870 |
|    | 12 |     | 895 | 903 | 906 | 903 | 898 | 888 | 876 | 870 | 866 | 850 | 853 | 859 | 859 | 864 | 865 | 863 | 864 | 866 | 868 | 869 | 871 | 873 | 871 | 0 | 874 |
|    | 13 |     | 868 | 871 | 869 | 856 | 861 | 864 | 863 | 850 | 846 | 849 | 859 | 862 | 862 | 864 | 864 | 863 | 864 | 865 | 865 | 867 | 870 | 869 | 870 | 0 | 863 |
|    | 14 | *   | 876 | 880 | 880 | 876 | 870 | 863 | 860 | 855 | 855 | 864 | 869 | 869 | 869 | 870 | 869 | 867 | 870 | 871 | 872 | 872 | 873 | 873 | 878 | 0 | 870 |
| 46 | 15 | *   | 887 | 889 | 888 | 901 | 892 | 883 | 884 | 881 | 875 | 876 | 872 | 870 | 870 | 866 | 855 | 893 | 874 | 869 | 894 | 882 | 861 | 856 | 861 | 0 | 877 |
|    | 16 |     | 869 | 870 | 872 | 869 | 861 | 851 | 854 | 863 | 870 | 878 | 882 | 876 | 869 | 862 | 863 | 863 | 868 | 873 | 873 | 865 | 861 | 853 | 856 | 0 | 866 |
|    | 17 |     | 863 | 861 | 849 | 842 | 852 | 844 | 835 | 834 | 847 | 856 | 862 | 864 | 857 | 860 | 865 | 853 | 855 | 857 | 860 | 866 | 868 | 867 | 866 | 0 | 856 |
|    | 18 |     | 874 | 869 | 872 | 868 | 855 | 844 | 841 | 851 | 858 | 865 | 870 | 871 | 872 | 872 | 873 | 876 | 877 | 884 | 882 | 887 | 878 | 868 | 851 | 0 | 867 |
|    | 19 | **  | 859 | 847 | 838 | 815 | 824 | 828 | 773 | 766 | 794 | 806 | 830 | 818 | 813 | 823 | 827 | 811 | 846 | 827 | 815 | 829 | 826 | 824 | 830 | 1 | 821 |
|    | 20 | **  | 832 | 823 | 819 | 831 | 819 | 820 | 821 | 823 | 834 | 836 | 827 | 828 | 825 | 814 | 838 | 835 | 835 | 846 | 836 | 838 | 839 | 843 | 845 | 0 | 831 |
|    | 21 |     | 835 | 847 | 845 | 843 | 845 | 852 | 841 | 831 | 829 | 843 | 847 | 832 | 844 | 838 | 840 | 856 | 847 | 861 | 851 | 851 | 857 | 850 | 845 | 0 | 845 |
|    | 22 |     | 851 | 842 | 810 | 826 | 830 | 830 | 821 | 810 | 816 | 828 | 833 | 843 | 845 | 848 | 852 | 848 | 849 | 850 | 853 | 856 | 856 | 853 | 862 | 0 | 841 |
|    | 23 | **  | 848 | 860 | 863 | 863 | 839 | 806 | 796 | 816 | 837 | 834 | 820 | 825 | 851 | 837 | 857 | 838 | 858 | 844 | 863 | 873 | 857 | 847 | 846 | 1 | 842 |
|    | 24 |     | 842 | 845 | 847 | 861 | 863 | 850 | 833 | 801 | 826 | 835 | 830 | 823 | 857 | 829 | 831 | 831 | 835 | 853 | 859 | 850 | 849 | 854 | 858 | 0 | 842 |
|    | 25 |     | 853 | 846 | 843 | 847 | 847 | 848 | 847 | 845 | 837 | 850 | 857 | 855 | 849 | 855 | 876 | 858 | 857 | 860 | 866 | 867 | 869 | 860 | 863 | 0 | 855 |
|    | 26 |     | 863 | 863 | 858 | 863 | 864 | 865 | 863 | 857 | 854 | 855 | 860 | 864 | 860 | 860 | 866 | 863 | 862 | 863 | 863 | 864 | 866 | 870 | 871 | 0 | 863 |
|    | 27 |     | 874 | 871 | 861 | 848 | 855 | 850 | 828 | 838 | 848 | 849 | 845 | 840 | 833 | 847 | 868 | 862 | 853 | 851 | 851 | 855 | 859 | 857 | 859 | 0 | 853 |
|    | 28 | *   | 862 | 861 | 864 | 862 | 861 | 857 | 855 | 857 | 857 | 859 | 862 | 864 | 863 | 867 | 866 | 865 | 860 | 861 | 872 | 866 | 866 | 866 | 868 | 0 | 863 |
|    | 29 | *   | 874 | 878 | 883 | 883 | 878 | 872 | 868 | 867 | 867 | 867 | 867 | 869 | 874 | 874 | 870 | 871 | 876 | 877 | 877 | 877 | 875 | 873 | 875 | 0 | 874 |
|    | 30 | *   | 873 | 871 | 868 | 868 | 867 | 869 | 874 | 874 | 877 | 877 | 878 | 880 | 882 | 883 | 879 | 875 | 874 | 871 | 869 | 865 | 868 | 875 | 879 | 0 | 874 |
|    |    |     | 864 | 864 | 862 | 861 | 857 | 849 | 842 | 839 | 843 | 849 | 851 | 851 | 853 | 852 | 855 | 856 | 857 | 859 | 861 | 862 | 861 | 861 | 863 |   | 856 |
|    |    | *   | 872 | 873 | 873 | 873 | 868 | 862 | 861 | 861 | 863 | 866 | 869 | 870 | 871 | 873 | 871 | 869 | 869 | 870 | 872 | 870 | 870 | 871 | 875 |   | 870 |
|    |    | **  | 847 | 850 | 843 | 838 | 834 | 823 | 809 | 810 | 819 | 826 | 827 | 822 | 825 | 820 | 832 | 827 | 843 | 838 | 843 | 851 | 847 | 846 | 848 |   | 834 |

WATHEROO  
 SEPTEMBER 1953  
 DECLINATION WEST  
 2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

2-0953-2-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 47 | 1  |     | 464 | 476 | 479 |     | 486 | 477 | 468 |     | 457 | 449 | 455 |     | 453 | 455 | 456 |     | 476 | 467 | 467 |     | 487 | 477 | 466 |     | 457 | 467 | 466 |     | 463 | 457 | 457 | 0   | 466 |
|    | 2  |     | 467 | 476 | 476 |     | 478 | 476 | 458 |     | 446 | 446 | 444 |     | 454 | 459 | 458 |     | 461 | 477 | 466 |     | 457 | 488 | 477 |     | 480 | 472 | 460 |     | 460 | 461 | 457 | 0   | 465 |
|    | 3  | **  | 465 | 477 | 482 |     | 482 | 477 | 467 |     | 456 | 439 | 435 |     | 438 | 439 | 448 |     | 463 | 467 | 476 |     | 485 | 474 | 457 |     | 443 | 467 | 466 |     | 446 | 374 | 285 | 1   | 450 |
|    | 4  | **  | 336 | 435 | 451 |     | 456 | 464 | 464 |     | 457 | 447 | 455 |     | 457 | 457 | 502 |     | 488 | 495 | 497 |     | 497 | 477 | 490 |     | 452 | 450 | 463 |     | 445 | 425 | 425 | 1   | 458 |
|    | 5  |     | 436 | 423 | 455 |     | 476 | 475 | 465 |     | 443 | 431 | 430 |     | 446 | 449 | 456 |     | 465 | 467 | 466 |     | 469 | 462 | 459 |     | 456 | 455 | 438 |     | 444 | 456 | 467 | 0   | 454 |
|    | 6  |     | 481 | 491 | 497 |     | 494 | 484 | 464 |     | 436 | 417 | 418 |     | 440 | 451 | 453 |     | 465 | 474 | 465 |     | 466 | 465 | 460 |     | 456 | 456 | 444 |     | 451 | 457 | 465 | 0   | 460 |
|    | 7  |     | 472 | 480 | 481 |     | 478 | 460 | 436 |     | 424 | 435 | 435 |     | 438 | 441 | 447 |     | 475 | 481 | 463 |     | 467 | 475 | 466 |     | 465 | 458 | 458 |     | 455 | 455 | 460 | 0   | 459 |
|    | 8  |     | 467 | 485 | 498 |     | 497 | 481 | 462 |     | 439 | 434 | 435 |     | 449 | 447 | 457 |     | 466 | 467 | 466 |     | 464 | 472 | 470 |     | 465 | 460 | 457 |     | 456 | 456 | 460 | 0   | 463 |
|    | 9  | *   | 475 | 487 | 498 |     | 483 | 469 | 450 |     | 445 | 436 | 435 |     | 444 | 451 | 455 |     | 457 | 458 | 460 |     | 463 | 466 | 462 |     | 459 | 458 | 457 |     | 457 | 454 | 455 | 0   | 459 |
|    | 10 |     | 470 | 487 | 498 |     | 497 | 487 | 477 |     | 457 | 445 | 436 |     | 438 | 447 | 453 |     | 462 | 460 | 456 |     | 458 | 468 | 471 |     | 467 | 457 | 460 |     | 462 | 455 | 451 | 0   | 463 |
|    | 11 |     | 466 | 457 | 473 |     | 493 | 495 | 486 |     | 467 | 446 | 436 |     | 442 | 451 | 456 |     | 458 | 476 | 466 |     | 459 | 457 | 457 |     | 457 | 455 | 448 |     | 457 | 452 | 449 | 0   | 461 |
|    | 12 |     | 451 | 465 | 477 |     | 476 | 477 | 467 |     | 453 | 445 | 438 |     | 444 | 448 | 454 |     | 459 | 468 | 463 |     | 463 | 459 | 458 |     | 456 | 453 | 452 |     | 447 | 455 | 455 | 0   | 457 |
|    | 13 |     | 460 | 477 | 484 |     | 476 | 467 | 455 |     | 435 | 435 | 441 |     | 448 | 451 | 456 |     | 456 | 465 | 457 |     | 458 | 457 | 457 |     | 458 | 456 | 456 |     | 448 | 452 | 456 | 0   | 458 |
|    | 14 | *   | 471 | 490 | 498 |     | 494 | 477 | 456 |     | 446 | 438 | 437 |     | 443 | 452 | 457 |     | 456 | 456 | 457 |     | 457 | 456 | 456 |     | 456 | 455 | 455 |     | 455 | 455 | 456 | 0   | 460 |
|    | 15 |     | 467 | 476 | 481 |     | 480 | 472 | 456 |     | 438 | 433 | 436 |     | 440 | 449 | 457 |     | 456 | 458 | 486 |     | 466 | 475 | 468 |     | 466 | 454 | 470 |     | 456 | 461 | 467 | 0   | 461 |
|    | 16 |     | 470 | 479 | 498 |     | 478 | 467 | 446 |     | 434 | 430 | 435 |     | 441 | 445 | 446 |     | 451 | 456 | 456 |     | 460 | 472 | 477 |     | 477 | 477 | 469 |     | 461 | 457 | 467 | 0   | 460 |
|    | 17 |     | 478 | 498 | 498 |     | 490 | 473 | 451 |     | 435 | 426 | 436 |     | 448 | 457 | 454 |     | 457 | 474 | 478 |     | 472 | 468 | 467 |     | 458 | 439 | 440 |     | 456 | 456 | 467 | 0   | 462 |
|    | 18 |     | 487 | 498 | 506 |     | 490 | 464 | 438 |     | 428 | 425 | 426 |     | 436 | 447 | 452 |     | 455 | 456 | 457 |     | 458 | 456 | 456 |     | 462 | 477 | 467 |     | 476 | 466 | 440 | 0   | 459 |
|    | 19 | **  | 408 | 454 | 457 |     | 457 | 464 | 440 |     | 415 | 415 | 399 |     | 420 | 498 | 456 |     | 462 | 488 | 498 |     | 543 | 498 | 498 |     | 507 | 461 | 471 |     | 456 | 456 | 470 | 1   | 462 |
|    | 20 | **  | 476 | 477 | 479 |     | 487 | 477 | 468 |     | 446 | 436 | 440 |     | 436 | 446 | 456 |     | 459 | 468 | 460 |     | 498 | 497 | 479 |     | 476 | 437 | 436 |     | 437 | 456 | 437 | 0   | 461 |
|    | 21 |     | 448 | 469 | 482 |     | 487 | 477 | 466 |     | 436 | 436 | 425 |     | 437 | 477 | 446 |     | 466 | 467 | 473 |     | 469 | 472 | 442 |     | 469 | 467 | 456 |     | 469 | 467 | 477 | 0   | 462 |
|    | 22 | **  | 487 | 486 | 474 |     | 470 | 454 | 435 |     | 419 | 438 | 426 |     | 431 | 453 | 463 |     | 459 | 468 | 473 |     | 466 | 458 | 456 |     | 445 | 454 | 442 |     | 425 | 455 | 466 | 0   | 454 |
|    | 23 |     | 478 | 487 | 489 |     | 479 | 461 | 431 |     | 410 | 434 | 434 |     | 439 | 467 | 458 |     | 477 | 477 | 514 |     | 479 | 453 | 477 |     | 477 | 462 | 477 |     | 460 | 467 | 470 | 1   | 465 |
|    | 24 |     | 469 | 477 | 477 |     | 471 | 453 | 437 |     | 431 | 425 | 428 |     | 436 | 467 | 482 |     | 498 | 464 | 478 |     | 467 | 467 | 458 |     | 463 | 476 | 443 |     | 446 | 454 | 463 | 0   | 460 |
|    | 25 |     | 475 | 486 | 497 |     | 499 | 478 | 455 |     | 436 | 434 | 436 |     | 446 | 446 | 447 |     | 450 | 460 | 471 |     | 471 | 464 | 474 |     | 477 | 467 | 472 |     | 464 | 466 | 475 | 0   | 464 |
|    | 26 |     | 486 | 493 | 498 |     | 497 | 483 | 462 |     | 445 | 437 | 438 |     | 445 | 450 | 455 |     | 456 | 460 | 469 |     | 467 | 467 | 462 |     | 464 | 462 | 471 |     | 447 | 457 | 460 | 0   | 464 |
|    | 27 |     | 467 | 467 | 456 |     | 436 | 429 | 415 |     | 417 | 425 | 436 |     | 444 | 446 | 472 |     | 467 | 460 | 457 |     | 479 | 483 | 476 |     | 477 | 457 | 467 |     | 472 | 477 | 482 | 0   | 457 |
|    | 28 | *   | 487 | 485 | 477 |     | 468 | 451 | 435 |     | 432 | 432 | 432 |     | 442 | 446 | 450 |     | 452 | 456 | 458 |     | 467 | 467 | 467 |     | 467 | 467 | 467 |     | 467 | 474 | 481 | 0   | 459 |
|    | 29 | *   | 487 | 488 | 477 |     | 457 | 438 | 428 |     | 431 | 436 | 445 |     | 450 | 455 | 455 |     | 456 | 456 | 456 |     | 467 | 457 | 456 |     | 456 | 461 | 467 |     | 469 | 475 | 477 | 0   | 458 |
|    | 30 | *   | 487 | 488 | 477 |     | 456 | 436 | 422 |     | 414 | 413 | 417 |     | 429 | 444 | 447 |     | 454 | 456 | 456 |     | 462 | 472 | 480 |     | 493 | 477 | 467 |     | 483 | 477 | 488 | 0   | 458 |
|    | *  | 465 | 477 | 481 |     | 479 | 468 | 452 |     | 438 | 434 | 434 |     | 442 | 453 | 457 |     | 463 | 467 | 469 |     | 471 | 469 | 467 |     | 465 | 460 | 459 |     | 456 | 456 | 456 |     | 460 |     |
|    | ** | 481 | 488 | 483 |     | 472 | 454 | 438 |     | 434 | 431 | 433 |     | 442 | 450 | 453 |     | 455 | 456 | 457 |     | 463 | 464 | 464 |     | 466 | 464 | 463 |     | 466 | 467 | 471 |     | 459 |     |
|    | ** | 433 | 466 | 472 |     | 472 | 469 | 454 |     | 437 | 434 | 433 |     | 438 | 461 | 464 |     | 470 | 479 | 489 |     | 500 | 480 | 480 |     | 471 | 455 | 463 |     | 449 | 436 | 417 |     | 459 |     |

WATHEROO  
SEPTEMBER 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0953-3-3

|    |    | 1  | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9 | 10  | 11  | 12  | 13 | 14  | 15  | 16  | 17 | 18  | 19  | 20  | 21 | 22  | 23  | 24  |  |     |     |     |     |     |     |     |     |     |
|----|----|----|-----|-----|-----|---|-----|-----|-----|---|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 48 | 1  |    | 167 | 170 | 175 |   | 174 | 166 | 162 |   | 162 | 161 | 175 |    | 176 | 173 | 177 |    | 178 | 177 | 180 |    | 185 | 181 | 174 |  | 169 | 171 | 171 | 169 | 165 | 164 | 0   | 172 |     |
|    | 2  |    | 171 | 177 | 176 |   | 172 | 165 | 159 |   | 167 | 174 | 170 |    | 179 | 181 | 178 |    | 180 | 181 | 178 |    | 168 | 190 | 181 |  | 181 | 175 | 168 | 168 | 167 | 163 | 0   | 174 |     |
|    | 3  | ** | 161 | 166 | 166 |   | 163 | 160 | 160 |   | 159 | 155 | 160 |    | 170 | 175 | 184 |    | 190 | 188 | 186 |    | 190 | 179 | 169 |  | 163 | 168 | 168 | 159 | 130 | 107 | 1   | 166 |     |
|    | 4  | ** | 141 | 171 | 168 |   | 171 | 167 | 170 |   | 172 | 176 | 191 |    | 190 | 182 | 209 |    | 201 | 207 | 202 |    | 192 | 168 | 179 |  | 156 | 154 | 163 | 155 | 151 | 163 | 1   | 175 |     |
|    | 5  |    | 176 | 171 | 177 |   | 184 | 181 | 174 |   | 163 | 160 | 169 |    | 176 | 176 | 179 |    | 180 | 179 | 175 |    | 175 | 171 | 168 |  | 168 | 168 | 161 | 162 | 168 | 176 | 0   | 172 |     |
|    | 6  |    | 178 | 178 | 176 |   | 167 | 154 | 147 |   | 143 | 158 | 166 |    | 173 | 174 | 176 |    | 185 | 190 | 178 |    | 174 | 170 | 168 |  | 167 | 167 | 163 | 167 | 171 | 175 | 0   | 169 |     |
|    | 7  |    | 174 | 172 | 167 |   | 157 | 145 | 141 |   | 146 | 153 | 159 |    | 172 | 181 | 181 |    | 189 | 187 | 176 |    | 172 | 175 | 164 |  | 167 | 165 | 167 | 166 | 168 | 175 | 0   | 167 |     |
|    | 8  |    | 180 | 183 | 181 |   | 168 | 154 | 146 |   | 144 | 148 | 159 |    | 179 | 173 | 175 |    | 180 | 179 | 177 |    | 171 | 175 | 170 |  | 162 | 160 | 162 | 163 | 166 | 169 | 0   | 168 |     |
|    | 9  | *  | 175 | 175 | 169 |   | 159 | 148 | 144 |   | 145 | 148 | 153 |    | 161 | 165 | 168 |    | 170 | 170 | 170 |    | 169 | 168 | 163 |  | 160 | 160 | 161 | 162 | 163 | 165 | 0   | 162 |     |
|    | 10 |    | 175 | 178 | 176 |   | 168 | 153 | 144 |   | 141 | 142 | 149 |    | 157 | 164 | 166 |    | 174 | 169 | 167 |    | 168 | 169 | 166 |  | 162 | 162 | 159 | 159 | 158 | 156 | 152 | 0   | 161 |
|    | 11 |    | 158 | 157 | 162 |   | 169 | 165 | 154 |   | 147 | 145 | 153 |    | 158 | 166 | 171 |    | 174 | 179 | 173 |    | 166 | 164 | 162 |  | 161 | 158 | 157 | 160 | 159 | 160 | 0   | 162 |     |
|    | 12 |    | 163 | 170 | 173 |   | 174 | 164 | 151 |   | 144 | 146 | 153 |    | 165 | 170 | 173 |    | 177 | 178 | 173 |    | 171 | 167 | 164 |  | 162 | 160 | 159 | 157 | 163 | 163 | 0   | 164 |     |
|    | 13 |    | 169 | 176 | 172 |   | 165 | 158 | 145 |   | 141 | 151 | 162 |    | 168 | 167 | 168 |    | 170 | 173 | 171 |    | 170 | 167 | 166 |  | 165 | 162 | 160 | 158 | 160 | 166 | 0   | 164 |     |
|    | 14 | *  | 170 | 174 | 171 |   | 166 | 157 | 147 |   | 141 | 142 | 147 |    | 154 | 160 | 164 |    | 163 | 163 | 165 |    | 165 | 163 | 161 |  | 160 | 159 | 157 | 155 | 155 | 157 | 0   | 159 |     |
|    | 15 |    | 160 | 161 | 162 |   | 152 | 143 | 134 |   | 131 | 136 | 147 |    | 153 | 161 | 166 |    | 162 | 164 | 180 |    | 155 | 164 | 162 |  | 149 | 141 | 153 | 150 | 153 | 153 | 0   | 154 |     |
|    | 16 |    | 155 | 159 | 158 |   | 150 | 136 | 131 |   | 134 | 141 | 150 |    | 152 | 152 | 155 |    | 162 | 165 | 165 |    | 166 | 168 | 166 |  | 162 | 162 | 157 | 154 | 154 | 158 | 0   | 155 |     |
|    | 17 |    | 166 | 173 | 172 |   | 166 | 153 | 144 |   | 144 | 150 | 157 |    | 165 | 163 | 161 |    | 165 | 173 | 171 |    | 171 | 167 | 163 |  | 159 | 150 | 150 | 158 | 159 | 167 | 0   | 161 |     |
|    | 18 |    | 175 | 175 | 166 |   | 150 | 135 | 131 |   | 140 | 143 | 147 |    | 153 | 155 | 158 |    | 159 | 160 | 160 |    | 159 | 157 | 155 |  | 160 | 164 | 156 | 163 | 162 | 151 | 0   | 156 |     |
|    | 19 | ** | 140 | 167 | 162 |   | 157 | 157 | 147 |   | 156 | 177 | 165 |    | 179 | 220 | 186 |    | 190 | 194 | 198 |    | 217 | 170 | 170 |  | 173 | 147 | 155 | 155 | 155 | 164 | 1   | 171 |     |
|    | 20 | ** | 166 | 166 | 166 |   | 164 | 159 | 155 |   | 150 | 154 | 162 |    | 162 | 171 | 179 |    | 183 | 190 | 175 |    | 188 | 179 | 162 |  | 163 | 150 | 154 | 158 | 166 | 163 | 0   | 166 |     |
|    | 21 |    | 166 | 170 | 171 |   | 165 | 152 | 143 |   | 135 | 155 | 164 |    | 170 | 190 | 177 |    | 182 | 182 | 178 |    | 167 | 169 | 152 |  | 166 | 164 | 159 | 166 | 167 | 170 | 0   | 166 |     |
|    | 22 |    | 170 | 167 | 165 |   | 153 | 145 | 141 |   | 149 | 177 | 173 |    | 172 | 181 | 182 |    | 176 | 176 | 174 |    | 168 | 164 | 162 |  | 156 | 162 | 158 | 156 | 170 | 175 | 0   | 166 |     |
|    | 23 | ** | 181 | 174 | 165 |   | 149 | 138 | 136 |   | 140 | 157 | 156 |    | 170 | 196 | 187 |    | 185 | 188 | 196 |    | 175 | 152 | 163 |  | 154 | 149 | 160 | 158 | 163 | 168 | 1   | 165 |     |
|    | 24 |    | 166 | 166 | 162 |   | 153 | 138 | 132 |   | 140 | 158 | 161 |    | 164 | 185 | 196 |    | 189 | 181 | 183 |    | 171 | 166 | 159 |  | 155 | 163 | 151 | 155 | 162 | 169 | 0   | 164 |     |
|    | 25 |    | 172 | 174 | 170 |   | 162 | 140 | 126 |   | 128 | 143 | 157 |    | 166 | 167 | 170 |    | 175 | 179 | 171 |    | 175 | 167 | 168 |  | 165 | 158 | 158 | 158 | 162 | 167 | 0   | 162 |     |
|    | 26 |    | 175 | 176 | 173 |   | 159 | 145 | 137 |   | 136 | 141 | 149 |    | 158 | 162 | 163 |    | 167 | 171 | 171 |    | 167 | 166 | 161 |  | 158 | 158 | 159 | 147 | 153 | 156 | 0   | 159 |     |
|    | 27 |    | 158 | 158 | 157 |   | 149 | 146 | 142 |   | 153 | 156 | 160 |    | 166 | 173 | 191 |    | 188 | 179 | 168 |    | 177 | 177 | 169 |  | 168 | 158 | 159 | 162 | 163 | 163 | 0   | 164 |     |
|    | 28 | *  | 163 | 157 | 151 |   | 142 | 133 | 135 |   | 139 | 144 | 152 |    | 159 | 161 | 164 |    | 165 | 167 | 169 |    | 171 | 171 | 169 |  | 161 | 161 | 161 | 161 | 163 | 165 | 0   | 158 |     |
|    | 29 | *  | 166 | 160 | 149 |   | 143 | 137 | 137 |   | 144 | 150 | 156 |    | 161 | 162 | 160 |    | 161 | 162 | 164 |    | 166 | 162 | 159 |  | 160 | 160 | 161 | 162 | 162 | 162 | 0   | 157 |     |
|    | 30 | *  | 162 | 155 | 144 |   | 133 | 130 | 131 |   | 134 | 142 | 147 |    | 155 | 159 | 160 |    | 160 | 160 | 163 |    | 164 | 169 | 171 |  | 172 | 162 | 157 | 160 | 154 | 158 | 0   | 154 |     |
|    |    |    | 167 | 169 | 167 |   | 160 | 151 | 145 |   | 146 | 153 | 159 |    | 166 | 172 | 174 |    | 176 | 177 | 175 |    | 173 | 169 | 166 |  | 163 | 160 | 159 | 159 | 160 | 162 |     | 164 |     |
|    |    | *  | 167 | 164 | 157 |   | 149 | 141 | 139 |   | 141 | 145 | 151 |    | 158 | 161 | 163 |    | 164 | 164 | 166 |    | 167 | 167 | 165 |  | 163 | 160 | 159 | 160 | 159 | 161 |     | 158 |     |
|    |    | ** | 158 | 169 | 165 |   | 161 | 156 | 154 |   | 155 | 164 | 167 |    | 174 | 189 | 189 |    | 190 | 193 | 191 |    | 192 | 170 | 169 |  | 162 | 154 | 160 | 157 | 153 | 153 |     | 169 |     |

WATHEROO  
SEPTEMBER 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0953-1-3

WATHEROO  
SEPTEMBER 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0953-2-3

WATHEROO  
SEPTEMBER 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0953-3-3

49

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 056  | -015 | 052  | 030  | -042 | 001  | -005 | -012 |
| 2  |    | 073  | -001 | 052  | 107  | -026 | 018  | -029 | -039 |
| 3  | ** | 159  | 066  | -051 | 032  | -033 | 057  | -038 | 038  |
| 4  | ** | 221  | -189 | 035  | -096 | -020 | 020  | 021  | -079 |
| 5  |    | 021  | -163 | 031  | -048 | -019 | -042 | 001  | -056 |
| 6  |    | 146  | -081 | 080  | 033  | -036 | 050  | 011  | -059 |
| 7  |    | 109  | -053 | 043  | 072  | 011  | 025  | -018 | 027  |
| 8  |    | 086  | -083 | 046  | 019  | -012 | 028  | -002 | 021  |
| 9  | *  | 035  | -050 | 066  | 023  | -022 | 037  | -012 | -015 |
| 10 |    | 082  | -002 | 046  | 048  | 015  | 006  | 006  | -003 |
| 11 |    | 239  | -002 | 037  | 125  | -055 | 053  | -026 | -020 |
| 12 |    | 158  | 094  | -023 | 110  | -034 | 016  | -014 | 034  |
| 13 |    | 059  | -048 | 024  | 022  | -013 | -018 | 028  | 000  |
| 14 | *  | 065  | -035 | 046  | 030  | -020 | 018  | 005  | -014 |
| 15 |    | 035  | 071  | -066 | 070  | -007 | 074  | 014  | 016  |
| 16 |    | -040 | -001 | 028  | 001  | -005 | 099  | -002 | -003 |
| 17 |    | 028  | -095 | 080  | -026 | -020 | 007  | 004  | -017 |
| 18 |    | -014 | -126 | 014  | 029  | -037 | 088  | -024 | 030  |
| 19 | ** | 117  | -110 | 107  | 105  | -035 | 078  | 012  | -060 |
| 20 | ** | 022  | -080 | -008 | -048 | 026  | 013  | -026 | -037 |
| 21 |    | 036  | -061 | -034 | 009  | -019 | 006  | 004  | -035 |
| 22 |    | 045  | -181 | 061  | -010 | -007 | -042 | 049  | -031 |
| 23 | ** | 099  | -149 | 032  | 066  | -056 | 096  | -093 | 053  |
| 24 |    | 126  | -046 | -006 | 031  | -093 | 005  | 029  | -062 |
| 25 |    | 009  | -106 | 008  | -015 | -011 | -027 | 002  | -011 |
| 26 |    | 035  | -025 | 010  | 000  | -005 | -030 | 014  | -021 |
| 27 |    | 090  | -051 | 041  | 044  | 043  | 018  | -047 | 000  |
| 28 | *  | 017  | -041 | 022  | 001  | -013 | -004 | 001  | 000  |
| 29 | *  | 040  | -013 | -005 | 034  | -025 | 016  | -003 | 001  |
| 30 | *  | -037 | -005 | 049  | -008 | 023  | -023 | 010  | -007 |
|    |    | 072  | -053 | 028  | 027  | -018 | 021  | -003 | -014 |
|    | *  | 025  | -030 | 036  | 016  | -009 | 008  | 000  | -006 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  |    | 025  | -018 | -012 | 118 | -035 | 003  | -042 | -013 |
| 2  |    | 040  | -068 | -016 | 100 | -046 | 059  | 007  | -011 |
| 3  | ** | -143 | 018  | -197 | 267 | -195 | 091  | -171 | 153  |
| 4  | ** | -323 | -097 | -111 | 108 | -148 | -068 | -081 | -056 |
| 5  |    | -031 | -040 | -016 | 110 | -069 | -052 | 017  | -098 |
| 6  |    | 118  | -013 | 076  | 230 | -081 | 046  | 004  | -030 |
| 7  |    | 063  | -102 | 068  | 159 | -036 | 048  | -023 | 031  |
| 8  |    | 091  | -019 | 020  | 178 | -078 | 062  | -027 | -018 |
| 9  | *  | 096  | -020 | 036  | 137 | -042 | 064  | -022 | 002  |
| 10 |    | 119  | 028  | -033 | 162 | -085 | 038  | 002  | -007 |
| 11 |    | 042  | 060  | -041 | 145 | -092 | -050 | 017  | -031 |
| 12 |    | 037  | 020  | -013 | 132 | -063 | -007 | -013 | -018 |
| 13 |    | 060  | -010 | 038  | 115 | -059 | 056  | -026 | 002  |
| 14 | *  | 117  | 034  | 039  | 147 | -071 | 065  | -032 | 000  |
| 15 |    | 080  | -074 | 024  | 145 | -035 | 021  | -030 | -027 |
| 16 |    | 132  | -106 | -006 | 100 | -050 | 083  | -011 | -000 |
| 17 |    | 082  | -014 | 093  | 218 | -009 | 070  | -039 | -026 |
| 18 |    | 181  | -066 | 075  | 133 | -104 | 092  | -074 | 038  |
| 19 | ** | -095 | -335 | -026 | 206 | -064 | 016  | -034 | -139 |
| 20 | ** | 015  | -042 | -044 | 243 | 019  | 062  | 018  | -062 |
| 21 |    | 074  | -049 | 041  | 122 | -092 | -013 | -036 | -064 |
| 22 |    | 052  | -051 | 132  | 178 | 006  | 066  | 017  | 028  |
| 23 | ** | 052  | -159 | 131  | 162 | -054 | 050  | -070 | 038  |
| 24 |    | -011 | -100 | 131  | 142 | -089 | 068  | 042  | 013  |
| 25 |    | 159  | -064 | 013  | 147 | -052 | 061  | -051 | -014 |
| 26 |    | 128  | 000  | 023  | 173 | -058 | 067  | -032 | 010  |
| 27 |    | 042  | -239 | 120  | 023 | -039 | 054  | 020  | -037 |
| 28 | *  | 153  | -120 | 085  | 077 | 012  | 056  | -005 | 000  |
| 29 | *  | 118  | -093 | 137  | 030 | -033 | 060  | -032 | 021  |
| 30 | *  | 195  | -246 | 104  | 069 | -009 | 093  | 029  | 003  |
|    |    | 054  | -065 | 030  | 142 | -053 | 041  | -021 | -010 |
|    | *  | 135  | -088 | 080  | 091 | -017 | 069  | -013 | 005  |

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | -049 | -038 | 018  | 035  | -003 | 024  | -039 | -007 |
| 2  |    | -050 | -037 | 009  | 017  | -001 | 056  | 001  | 014  |
| 3  | ** | -172 | -051 | -009 | 092  | -074 | 036  | -052 | 051  |
| 4  | ** | -220 | 024  | 057  | 056  | -018 | -018 | -031 | 020  |
| 5  |    | -019 | 022  | 040  | 056  | -025 | 016  | 004  | -027 |
| 6  |    | -031 | -061 | 116  | 038  | 004  | 037  | -019 | 025  |
| 7  |    | -059 | -087 | 130  | 013  | 000  | 034  | 001  | 014  |
| 8  |    | -019 | -050 | 114  | 060  | 007  | 068  | -026 | 003  |
| 9  | *  | 000  | -063 | 087  | 042  | 012  | 038  | -011 | 013  |
| 10 |    | 002  | -057 | 073  | 082  | -022 | 066  | -017 | 016  |
| 11 |    | -042 | -040 | 051  | 058  | -046 | -003 | -008 | -020 |
| 12 |    | -028 | -037 | 073  | 073  | -039 | 033  | -021 | -015 |
| 13 |    | -014 | -046 | 071  | 047  | 002  | 058  | -027 | 010  |
| 14 | *  | 019  | -042 | 057  | 073  | -019 | 052  | -013 | 005  |
| 15 |    | -040 | -069 | 094  | 066  | 005  | 038  | -026 | -008 |
| 16 |    | -019 | -117 | 045  | 034  | 015  | 043  | -022 | 020  |
| 17 |    | -012 | -033 | 073  | 068  | 028  | 040  | -031 | -001 |
| 18 |    | 034  | -079 | 085  | 017  | 011  | 054  | -019 | 048  |
| 19 | ** | -220 | -050 | 078  | 052  | 024  | 021  | -047 | -031 |
| 20 | ** | -082 | -048 | 079  | 080  | 011  | -003 | -006 | -018 |
| 21 |    | -057 | -050 | 128  | 015  | -021 | 044  | -037 | -001 |
| 22 |    | -070 | -022 | 108  | -025 | 047  | 031  | -006 | 024  |
| 23 | ** | -104 | -060 | 189  | 029  | 020  | 029  | -011 | 030  |
| 24 |    | -114 | -069 | 156  | 018  | 002  | 040  | 005  | 018  |
| 25 |    | -029 | -104 | 126  | 052  | 016  | 077  | -035 | 017  |
| 26 |    | -009 | -067 | 090  | 079  | 005  | 069  | -023 | 035  |
| 27 |    | -107 | -085 | 079  | 005  | -001 | 020  | 026  | -010 |
| 28 | *  | -036 | -128 | 069  | 000  | 038  | 024  | -004 | -001 |
| 29 | *  | -020 | -086 | 064  | -023 | 037  | 019  | -010 | 013  |
| 30 | *  | -034 | -149 | 046  | -014 | 034  | 050  | 019  | 009  |
|    |    | -053 | -058 | 078  | 041  | 002  | 037  | -014 | 009  |
|    | *  | -014 | -093 | 062  | 017  | 020  | 037  | -003 | 007  |

WATHEROO  
OCTOBER 1953  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-1053-1-3

|    |    | 1   | 2   | 3   | 4   | 5    | 6    | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 50 | 1  | 885 | 890 | 888 | 865 | 859  | 871  | 879 | 875 | 866 | 865 | 865 | 860 | 848 | 848 | 855 | 856 | 855 | 858 | 860 | 861 | 867 | 866 | 869 | 871 | 0   | 866 |     |
|    | 2  | 871 | 873 | 876 | 875 | 866  | 860  | 855 | 855 | 858 | 864 | 863 | 861 | 862 | 863 | 868 | 876 | 876 | 876 | 871 | 865 | 867 | 868 | 870 | 870 | 0   | 867 |     |
|    | 3  | 870 | 876 | 876 | 876 | 868  | 865  | 868 | 864 | 861 | 860 | 863 | 857 | 848 | 857 | 868 | 869 | 868 | 876 | 871 | 873 | 876 | 875 | 876 | 879 | 0   | 868 |     |
|    | 4  | 883 | 887 | 886 | 881 | 872  | 867  | 863 | 862 | 862 | 865 | 868 | 871 | 873 | 874 | 876 | 878 | 881 | 880 | 876 | 878 | 883 | 881 | 880 | 884 | 0   | 875 |     |
|    | 5  | *   | 891 | 901 | 904 | 903  | 894  | 887 | 881 | 880 | 879 | 876 | 873 | 876 | 877 | 879 | 879 | 879 | 880 | 883 | 882 | 885 | 885 | 885 | 885 | 884 | 0   | 885 |
|    | 6  | *   | 885 | 892 | 898 | 895  | 883  | 876 | 874 | 877 | 877 | 877 | 879 | 879 | 880 | 879 | 878 | 879 | 881 | 881 | 883 | 891 | 891 | 891 | 891 | 891 | 0   | 884 |
|    | 7  |     | 899 | 907 | 914 | 912  | 900  | 894 | 893 | 871 | 857 | 850 | 853 | 857 | 855 | 855 | 859 | 862 | 862 | 865 | 867 | 867 | 869 | 874 | 872 | 876 | 0   | 875 |
|    | 8  |     | 881 | 888 | 887 | 876  | 867  | 861 | 859 | 863 | 870 | 870 | 867 | 864 | 868 | 871 | 868 | 865 | 871 | 873 | 873 | 876 | 876 | 874 | 884 | 888 | 0   | 873 |
|    | 9  |     | 895 | 896 | 892 | 883  | 877  | 873 | 878 | 866 | 870 | 869 | 871 | 869 | 866 | 868 | 872 | 873 | 873 | 875 | 876 | 879 | 879 | 879 | 879 | 881 | 0   | 877 |
|    | 10 |     | 877 | 865 | 868 | 866  | 858  | 858 | 864 | 870 | 873 | 873 | 875 | 875 | 876 | 873 | 865 | 869 | 862 | 866 | 873 | 886 | 883 | 875 | 879 | 878 | 0   | 871 |
|    | 11 |     | 878 | 879 | 875 | 864  | 860  | 862 | 867 | 873 | 875 | 876 | 876 | 874 | 874 | 854 | 858 | 863 | 861 | 874 | 871 | 871 | 871 | 871 | 870 | 873 | 0   | 870 |
|    | 12 | *   | 873 | 870 | 866 | 859  | 855  | 859 | 866 | 874 | 875 | 875 | 872 | 873 | 872 | 874 | 875 | 877 | 875 | 876 | 876 | 881 | 880 | 876 | 877 | 877 | 0   | 872 |
|    | 13 | *   | 874 | 869 | 863 | 865  | 866  | 869 | 875 | 878 | 877 | 878 | 878 | 874 | 874 | 870 | 880 | 882 | 876 | 874 | 874 | 875 | 877 | 879 | 878 | 0   | 874 |     |
|    | 14 | *   | 877 | 876 | 874 | 876  | 875  | 872 | 875 | 878 | 880 | 880 | 879 | 880 | 880 | 880 | 878 | 876 | 875 | 875 | 881 | 881 | 882 | 884 | 886 | 889 | 0   | 879 |
|    | 15 | **  | 889 | 889 | 887 | 886  | 884  | 884 | 885 | 885 | 890 | 896 | 890 | 893 | 899 | 899 | 869 | 818 | 810 | 816 | 824 | 818 | 824 | 831 | 830 | 825 | 1   | 863 |
|    | 16 | **  | 824 | 832 | 838 | 826  | 820  | 809 | 816 | 832 | 838 | 839 | 844 | 847 | 843 | 845 | 846 | 859 | 862 | 851 | 866 | 859 | 863 | 859 | 855 | 852 | 1   | 843 |
|    | 17 |     | 853 | 854 | 842 | 836  | 841  | 838 | 831 | 838 | 830 | 847 | 842 | 849 | 845 | 845 | 852 | 880 | 851 | 850 | 854 | 861 | 865 | 846 | 851 | 852 | 1   | 848 |
|    | 18 | **  | 857 | 857 | 846 | 826  | 831  | 832 | 824 | 814 | 805 | 804 | 795 | 803 | 846 | 823 | 844 | 830 | 823 | 829 | 844 | 837 | 865 | 848 | 839 | 828 | 1   | 831 |
|    | 19 | **  | 836 | 830 | 807 | 806  | 820  | 811 | 790 | 801 | 805 | 818 | 792 | 813 | 839 | 835 | 830 | 841 | 846 | 844 | 850 | 844 | 844 | 839 | 847 | 844 | 1   | 826 |
|    | 20 | **  | 842 | 830 | 824 | 830  | 824  | 838 | 829 | 842 | 841 | 838 | 835 | 838 | 861 | 838 | 864 | 846 | 849 | 849 | 852 | 854 | 859 | 856 | 863 | 855 | 1   | 844 |
|    | 21 |     | 852 | 855 | 855 | 851  | 855  | 855 | 854 | 858 | 837 | 821 | 819 | 831 | 840 | 857 | 873 | 857 | 850 | 854 | 856 | 860 | 860 | 861 | 867 | 867 | 0   | 852 |
|    | 22 |     | 863 | 857 | 846 | 830* | 826* | 846 | 839 | 843 | 853 | 846 | 849 | 851 | 862 | 860 | 854 | 870 | 866 | 868 | 871 | 866 | 866 | 858 | 857 | 857 | 0   | 854 |
|    | 23 |     | 857 | 856 | 858 | 866  | 866  | 859 | 865 | 864 | 863 | 853 | 846 | 844 | 841 | 843 | 858 | 857 | 855 | 857 | 862 | 863 | 863 | 864 | 869 | 868 | 0   | 858 |
|    | 24 |     | 865 | 865 | 864 | 865  | 864  | 865 | 873 | 877 | 868 | 855 | 855 | 862 | 861 | 871 | 848 | 854 | 858 | 861 | 864 | 866 | 869 | 870 | 869 | 871 | 0   | 864 |
|    | 25 |     | 868 | 861 | 851 | 843  | 838  | 844 | 851 | 859 | 862 | 862 | 864 | 864 | 864 | 860 | 865 | 866 | 865 | 869 | 869 | 871 | 871 | 873 | 877 | 881 | 0   | 862 |
|    | 26 |     | 884 | 884 | 880 | 880  | 866  | 867 | 875 | 869 | 859 | 860 | 863 | 869 | 871 | 871 | 871 | 872 | 874 | 873 | 877 | 879 | 879 | 881 | 884 | 886 | 0   | 874 |
|    | 27 |     | 879 | 875 | 879 | 876  | 873  | 871 | 855 | 847 | 839 | 856 | 856 | 850 | 845 | 847 | 867 | 862 | 859 | 864 | 858 | 859 | 859 | 860 | 864 | 862 | 0   | 861 |
|    | 28 |     | 860 | 863 | 868 | 873  | 874  | 874 | 872 | 871 | 871 | 870 | 866 | 864 | 866 | 870 | 869 | 871 | 877 | 874 | 872 | 873 | 874 | 874 | 878 | 878 | 0   | 871 |
|    | 29 |     | 872 | 870 | 868 | 868  | 868  | 866 | 870 | 872 | 875 | 878 | 880 | 880 | 875 | 875 | 877 | 880 | 883 | 886 | 886 | 880 | 876 | 882 | 887 | 895 | 0   | 877 |
|    | 30 |     | 884 | 875 | 875 | 878  | 874  | 872 | 871 | 869 | 867 | 862 | 866 | 869 | 869 | 867 | 872 | 870 | 870 | 873 | 874 | 875 | 879 | 878 | 881 | 881 | 0   | 873 |
|    | 31 |     | 867 | 864 | 863 | 858  | 858  | 853 | 849 | 856 | 865 | 868 | 870 | 871 | 870 | 873 | 873 | 873 | 873 | 874 | 876 | 876 | 876 | 878 | 880 | 881 | 0   | 869 |
|    | *  | 871 | 871 | 868 | 864 | 861  | 860  | 860 | 861 | 860 | 860 | 859 | 860 | 863 | 862 | 865 | 865 | 864 | 865 | 867 | 868 | 870 | 869 | 871 | 871 |     | 865 |     |
|    | ** | 880 | 882 | 881 | 880 | 875  | 873  | 874 | 877 | 878 | 877 | 876 | 876 | 877 | 877 | 876 | 878 | 879 | 878 | 879 | 882 | 883 | 883 | 884 | 884 |     | 879 |     |
|    |    | 850 | 848 | 840 | 835 | 836  | 835  | 829 | 835 | 836 | 839 | 831 | 839 | 858 | 848 | 851 | 839 | 838 | 838 | 847 | 842 | 851 | 847 | 847 | 841 |     | 842 |     |

WATHEROO  
OCTOBER 1953  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  | 494 | 491 | 492 | 479 | 456  | 447 | 434 | 425 | 434 | 444 | 451 | 454 | 469 | 473 | 468 | 479 | 476 | 476 | 467 | 447 | 458 | 460 | 468 | 473 | 0 | 463 |
|    | 2  | 482 | 488 | 493 | 485 | 471  | 457 | 444 | 437 | 437 | 444 | 448 | 454 | 456 | 456 | 468 | 471 | 469 | 478 | 478 | 468 | 460 | 467 | 470 | 473 | 0 | 465 |
|    | 3  | 480 | 486 | 487 | 484 | 473  | 452 | 440 | 431 | 427 | 436 | 448 | 455 | 458 | 459 | 459 | 458 | 459 | 464 | 459 | 458 | 458 | 463 | 466 | 479 | 0 | 460 |
|    | 4  | 484 | 499 | 503 | 493 | 478  | 463 | 448 | 439 | 438 | 444 | 448 | 454 | 457 | 456 | 460 | 460 | 457 | 463 | 462 | 461 | 451 | 455 | 454 | 462 | 0 | 462 |
|    | 5  | *   | 476 | 482 | 481 | 478  | 468 | 456 | 441 | 434 | 436 | 441 | 449 | 453 | 456 | 457 | 461 | 461 | 460 | 458 | 457 | 457 | 458 | 465 | 473 | 0 | 459 |
|    | 6  | *   | 481 | 489 | 490 | 487  | 475 | 457 | 440 | 434 | 436 | 441 | 447 | 455 | 457 | 458 | 458 | 458 | 458 | 455 | 457 | 458 | 462 | 469 | 477 | 0 | 460 |
|    | 7  |     | 485 | 491 | 490 | 478  | 457 | 437 | 415 | 399 | 415 | 426 | 431 | 456 | 467 | 463 | 464 | 463 | 463 | 463 | 464 | 464 | 467 | 467 | 465 | 0 | 456 |
|    | 8  |     | 493 | 499 | 498 | 484  | 468 | 444 | 426 | 424 | 427 | 437 | 445 | 456 | 468 | 479 | 469 | 463 | 463 | 467 | 467 | 470 | 448 | 456 | 483 | 0 | 462 |
|    | 9  |     | 498 | 509 | 509 | 490  | 468 | 437 | 415 | 423 | 437 | 446 | 450 | 458 | 457 | 458 | 458 | 457 | 457 | 457 | 458 | 460 | 461 | 467 | 476 | 0 | 461 |
|    | 10 |     | 498 | 504 | 500 | 494  | 467 | 438 | 419 | 419 | 432 | 442 | 448 | 451 | 454 | 463 | 472 | 468 | 458 | 438 | 440 | 442 | 460 | 469 | 477 | 0 | 458 |
|    | 11 |     | 497 | 507 | 501 | 475  | 448 | 434 | 427 | 428 | 438 | 447 | 453 | 478 | 479 | 460 | 461 | 472 | 457 | 457 | 459 | 459 | 462 | 469 | 479 | 0 | 463 |
|    | 12 | *   | 495 | 501 | 492 | 478  | 458 | 443 | 429 | 428 | 438 | 448 | 454 | 454 | 454 | 455 | 457 | 457 | 456 | 458 | 452 | 461 | 458 | 469 | 482 | 0 | 460 |
|    | 13 | *   | 498 | 508 | 502 | 490  | 469 | 443 | 428 | 427 | 437 | 444 | 448 | 451 | 453 | 454 | 455 | 466 | 470 | 466 | 462 | 459 | 458 | 462 | 473 | 0 | 462 |
|    | 14 | *   | 481 | 489 | 484 | 472  | 463 | 437 | 427 | 428 | 438 | 441 | 446 | 450 | 452 | 453 | 454 | 461 | 458 | 459 | 459 | 459 | 466 | 471 | 479 | 0 | 457 |
| 51 | 15 | **  | 492 | 501 | 500 | 488  | 449 | 421 | 408 | 416 | 425 | 428 | 432 | 445 | 439 | 520 | 578 | 537 | 491 | 486 | 472 | 469 | 458 | 463 | 469 | 1 | 468 |
|    | 16 | **  | 489 | 495 | 492 | 479  | 469 | 448 | 446 | 437 | 443 | 449 | 469 | 467 | 472 | 483 | 488 | 490 | 491 | 461 | 489 | 456 | 479 | 479 | 459 | 1 | 471 |
|    | 17 |     | 479 | 510 | 503 | 498  | 479 | 451 | 438 | 427 | 427 | 459 | 447 | 449 | 467 | 479 | 448 | 472 | 466 | 470 | 449 | 469 | 479 | 478 | 486 | 1 | 466 |
|    | 18 | **  | 488 | 494 | 500 | 498  | 474 | 459 | 449 | 439 | 436 | 449 | 459 | 469 | 482 | 510 | 511 | 501 | 492 | 495 | 484 | 467 | 478 | 487 | 479 | 1 | 477 |
|    | 19 | **  | 485 | 486 | 470 | 479  | 456 | 445 | 413 | 439 | 427 | 482 | 449 | 489 | 490 | 468 | 469 | 480 | 461 | 446 | 461 | 469 | 460 | 478 | 489 | 1 | 464 |
|    | 20 | **  | 500 | 499 | 483 | 461  | 448 | 437 | 418 | 416 | 437 | 437 | 438 | 483 | 480 | 468 | 490 | 452 | 447 | 459 | 439 | 452 | 452 | 468 | 480 | 1 | 459 |
|    | 21 |     | 486 | 485 | 488 | 472  | 456 | 444 | 438 | 432 | 434 | 451 | 464 | 457 | 480 | 466 | 465 | 459 | 458 | 462 | 462 | 468 | 470 | 480 | 492 | 0 | 464 |
|    | 22 |     | 506 | 510 | 500 | 475* | 445 | 425 | 414 | 415 | 435 | 439 | 461 | 461 | 465 | 465 | 458 | 459 | 453 | 447 | 456 | 465 | 469 | 470 | 480 | 0 | 460 |
|    | 23 |     | 491 | 497 | 483 | 465  | 439 | 431 | 428 | 437 | 445 | 443 | 454 | 465 | 461 | 460 | 469 | 463 | 458 | 457 | 463 | 469 | 472 | 482 | 492 | 0 | 462 |
|    | 24 |     | 501 | 498 | 490 | 474  | 453 | 436 | 426 | 427 | 430 | 434 | 439 | 460 | 511 | 480 | 482 | 470 | 463 | 463 | 464 | 468 | 470 | 474 | 485 | 0 | 464 |
|    | 25 |     | 494 | 497 | 491 | 470  | 439 | 418 | 408 | 417 | 427 | 442 | 452 | 455 | 459 | 463 | 466 | 463 | 459 | 460 | 460 | 463 | 468 | 470 | 481 | 0 | 457 |
|    | 26 |     | 496 | 510 | 511 | 495  | 472 | 449 | 425 | 415 | 419 | 427 | 439 | 451 | 453 | 457 | 458 | 459 | 459 | 456 | 459 | 462 | 471 | 481 | 492 | 0 | 461 |
|    | 27 |     | 504 | 505 | 496 | 481  | 461 | 430 | 413 | 399 | 438 | 439 | 440 | 447 | 456 | 467 | 471 | 477 | 478 | 473 | 460 | 470 | 473 | 474 | 500 | 0 | 462 |
|    | 28 |     | 507 | 499 | 489 | 469  | 445 | 430 | 426 | 428 | 439 | 449 | 453 | 458 | 458 | 460 | 464 | 462 | 463 | 464 | 465 | 464 | 470 | 480 | 500 | 0 | 462 |
|    | 29 |     | 507 | 502 | 492 | 469  | 429 | 408 | 406 | 416 | 428 | 439 | 444 | 453 | 458 | 457 | 458 | 458 | 459 | 466 | 469 | 460 | 455 | 458 | 470 | 0 | 455 |
|    | 30 |     | 483 | 491 | 485 | 474  | 451 | 430 | 422 | 423 | 443 | 450 | 455 | 457 | 462 | 464 | 459 | 459 | 458 | 459 | 459 | 453 | 471 | 485 | 496 | 0 | 460 |
|    | 31 |     | 501 | 491 | 490 | 479  | 450 | 428 | 418 | 422 | 428 | 440 | 449 | 453 | 457 | 458 | 458 | 458 | 459 | 459 | 459 | 460 | 466 | 478 | 490 | 0 | 458 |
|    |    | *   | 492 | 497 | 493 | 480  | 459 | 440 | 427 | 425 | 433 | 443 | 449 | 459 | 464 | 467 | 470 | 468 | 464 | 462 | 461 | 461 | 465 | 471 | 480 |   | 462 |
|    |    | **  | 486 | 494 | 490 | 481  | 467 | 447 | 433 | 430 | 437 | 443 | 449 | 453 | 455 | 456 | 459 | 461 | 460 | 458 | 457 | 459 | 460 | 467 | 477 |   | 460 |
|    |    | **  | 491 | 495 | 489 | 481  | 459 | 442 | 427 | 429 | 434 | 449 | 449 | 471 | 473 | 490 | 507 | 492 | 476 | 469 | 469 | 463 | 465 | 475 | 475 |   | 468 |

WATHEROO  
OCTOBER 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-1053-3-3

|    |    | 1   | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 52 | 1  | 157 | 149 | 141 | 135 | 133  | 133 | 132 | 138 | 150 | 159 | 163 | 163 | 177 | 178 | 170 | 173 | 169 | 166 | 161 | 151 | 156 | 158 | 161 | 162 | 0   | 156 |     |
|    | 2  | 165 | 163 | 157 | 144 | 135  | 129 | 127 | 133 | 142 | 152 | 156 | 160 | 160 | 159 | 162 | 160 | 158 | 159 | 158 | 154 | 152 | 155 | 156 | 158 | 0   | 152 |     |
|    | 3  | 160 | 162 | 153 | 144 | 139  | 135 | 134 | 139 | 148 | 156 | 164 | 166 | 172 | 167 | 160 | 158 | 159 | 157 | 156 | 156 | 156 | 158 | 159 | 165 | 0   | 155 |     |
|    | 4  | 162 | 165 | 157 | 148 | 138  | 135 | 135 | 137 | 145 | 152 | 156 | 157 | 157 | 157 | 157 | 153 | 153 | 154 | 155 | 154 | 151 | 154 | 155 | 160 | 0   | 152 |     |
|    | 5  | *   | 160 | 155 | 148 | 145  | 142 | 137 | 132 | 136 | 144 | 252 | 257 | 257 | 256 | 256 | 255 | 255 | 252 | 250 | 249 | 248 | 251 | 253 | 256 | 262 | 0   | 213 |
|    | 6  | *   | 265 | 262 | 257 | 250  | 243 | 236 | 230 | 232 | 242 | 251 | 256 | 257 | 258 | 257 | 256 | 254 | 252 | 251 | 248 | 248 | 250 | 252 | 256 | 258 | 0   | 251 |
|    | 7  |     | 259 | 252 | 239 | 228  | 222 | 217 | 216 | 231 | 253 | 265 | 265 | 269 | 283 | 277 | 266 | 261 | 258 | 157 | 156 | 156 | 157 | 157 | 160 | 158 | 0   | 223 |
|    | 8  |     | 170 | 166 | 157 | 147  | 137 | 126 | 125 | 134 | 148 | 153 | 158 | 161 | 165 | 169 | 170 | 160 | 152 | 151 | 152 | 151 | 154 | 147 | 148 | 161 | 0   | 153 |
|    | 9  |     | 165 | 161 | 149 | 136  | 123 | 112 | 111 | 133 | 148 | 156 | 159 | 160 | 164 | 163 | 160 | 158 | 155 | 153 | 151 | 151 | 151 | 154 | 159 | 164 | 0   | 150 |
|    | 10 |     | 173 | 172 | 160 | 148  | 123 | 111 | 114 | 128 | 145 | 153 | 156 | 157 | 158 | 162 | 167 | 167 | 163 | 154 | 143 | 141 | 142 | 155 | 159 | 164 | 0   | 151 |
| 52 | 11 |     | 172 | 167 | 148 | 126  | 117 | 118 | 121 | 131 | 144 | 152 | 156 | 159 | 171 | 176 | 162 | 158 | 161 | 146 | 145 | 147 | 148 | 150 | 153 | 159 | 0   | 149 |
|    | 12 | *   | 165 | 157 | 145 | 134  | 124 | 124 | 123 | 130 | 143 | 151 | 155 | 156 | 158 | 157 | 157 | 157 | 156 | 153 | 153 | 148 | 151 | 152 | 157 | 166 | 0   | 149 |
|    | 13 | *   | 177 | 177 | 164 | 147  | 131 | 124 | 128 | 136 | 146 | 154 | 157 | 160 | 162 | 163 | 163 | 163 | 162 | 159 | 154 | 153 | 152 | 153 | 153 | 158 | 0   | 154 |
|    | 14 | *   | 163 | 163 | 151 | 144  | 133 | 131 | 135 | 142 | 150 | 152 | 153 | 155 | 156 | 157 | 156 | 156 | 160 | 156 | 153 | 150 | 150 | 151 | 155 | 159 | 0   | 151 |
|    | 15 | **  | 164 | 163 | 150 | 134  | 121 | 117 | 121 | 134 | 145 | 148 | 149 | 157 | 153 | 152 | 205 | 242 | 208 | 169 | 154 | 148 | 148 | 147 | 151 | 156 | 1   | 156 |
|    | 16 | **  | 163 | 161 | 149 | 140  | 136 | 124 | 136 | 139 | 152 | 158 | 167 | 164 | 166 | 169 | 171 | 169 | 161 | 164 | 144 | 153 | 136 | 145 | 144 | 135 | 1   | 152 |
|    | 17 |     | 144 | 161 | 151 | 140  | 132 | 125 | 131 | 139 | 157 | 178 | 166 | 161 | 163 | 172 | 182 | 147 | 166 | 160 | 160 | 148 | 151 | 159 | 156 | 156 | 1   | 154 |
|    | 18 | **  | 152 | 151 | 145 | 141  | 134 | 134 | 141 | 152 | 163 | 182 | 190 | 185 | 174 | 185 | 191 | 182 | 178 | 167 | 161 | 157 | 140 | 152 | 160 | 157 | 1   | 161 |
|    | 19 | **  | 153 | 152 | 148 | 151  | 143 | 144 | 147 | 181 | 180 | 214 | 197 | 178 | 193 | 183 | 167 | 163 | 167 | 154 | 149 | 160 | 163 | 163 | 167 | 167 | 1   | 166 |
|    | 20 | **  | 167 | 157 | 149 | 141  | 137 | 137 | 141 | 146 | 168 | 172 | 175 | 187 | 184 | 185 | 160 | 176 | 152 | 151 | 158 | 150 | 156 | 156 | 159 | 167 | 1   | 160 |
| 52 | 21 |     | 162 | 154 | 145 | 137  | 130 | 130 | 137 | 144 | 163 | 195 | 200 | 189 | 176 | 179 | 160 | 158 | 159 | 158 | 160 | 160 | 164 | 165 | 172 | 177 | 0   | 161 |
|    | 22 |     | 177 | 172 | 151 | 136* | 116 | 115 | 129 | 145 | 159 | 166 | 179 | 173 | 170 | 167 | 166 | 155 | 155 | 151 | 148 | 153 | 157 | 161 | 163 | 169 | 0   | 156 |
|    | 23 |     | 173 | 169 | 146 | 133  | 128 | 136 | 143 | 155 | 163 | 167 | 175 | 178 | 180 | 175 | 166 | 168 | 164 | 159 | 155 | 159 | 162 | 167 | 172 | 176 | 0   | 167 |
|    | 24 |     | 175 | 166 | 147 | 136  | 131 | 128 | 132 | 141 | 153 | 161 | 164 | 166 | 174 | 197 | 178 | 170 | 157 | 153 | 153 | 153 | 154 | 158 | 162 | 166 | 0   | 157 |
|    | 25 |     | 165 | 161 | 147 | 127  | 114 | 115 | 123 | 136 | 149 | 161 | 165 | 163 | 165 | 168 | 166 | 163 | 161 | 154 | 153 | 152 | 153 | 156 | 157 | 165 | 0   | 152 |
|    | 26 |     | 168 | 169 | 161 | 144  | 133 | 124 | 118 | 127 | 141 | 149 | 157 | 158 | 164 | 164 | 164 | 162 | 160 | 158 | 152 | 151 | 152 | 157 | 161 | 167 | 0   | 153 |
|    | 27 |     | 172 | 165 | 151 | 138  | 126 | 117 | 126 | 139 | 171 | 165 | 165 | 169 | 174 | 177 | 173 | 173 | 173 | 168 | 164 | 156 | 159 | 160 | 157 | 166 | 0   | 159 |
|    | 28 |     | 161 | 151 | 139 | 126  | 118 | 121 | 130 | 141 | 152 | 159 | 161 | 161 | 161 | 160 | 161 | 164 | 159 | 158 | 158 | 156 | 156 | 160 | 162 | 167 | 0   | 152 |
|    | 29 |     | 168 | 163 | 147 | 130  | 121 | 122 | 132 | 145 | 153 | 155 | 156 | 159 | 160 | 160 | 160 | 159 | 158 | 158 | 159 | 160 | 156 | 151 | 153 | 156 | 0   | 152 |
|    | 30 |     | 160 | 152 | 130 | 121  | 122 | 126 | 136 | 147 | 160 | 161 | 160 | 156 | 159 | 162 | 159 | 156 | 157 | 156 | 156 | 155 | 152 | 162 | 166 | 168 | 0   | 152 |
| 31 |    | 167 | 159 | 151 | 135 | 122  | 122 | 132 | 142 | 150 | 156 | 158 | 156 | 156 | 157 | 157 | 157 | 157 | 156 | 155 | 154 | 155 | 159 | 164 | 164 | 0   | 152 |     |
| 52 |    | 171 | 168 | 156 | 145 | 136  | 132 | 136 | 146 | 159 | 171 | 174 | 174 | 176 | 178 | 176 | 174 | 171 | 163 | 160 | 159 | 159 | 162 | 165 | 169 |     | 162 |     |
|    | *  | 186 | 183 | 173 | 164 | 155  | 150 | 150 | 155 | 165 | 192 | 196 | 197 | 198 | 198 | 197 | 197 | 196 | 194 | 191 | 189 | 191 | 192 | 195 | 201 |     | 184 |     |
|    | ** | 160 | 157 | 148 | 141 | 134  | 131 | 137 | 150 | 162 | 175 | 176 | 174 | 174 | 175 | 179 | 186 | 173 | 161 | 153 | 154 | 149 | 153 | 156 | 156 |     | 159 |     |

WATHEROO  
OCTOBER 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1053-1-3

WATHEROO  
OCTOBER 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-1053-2-3

WATHEROO  
OCTOBER 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1053-3-3

|    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4        |
|----|-----|------|------|------|------|------|------|-----------|
| 1  | 099 | 077  | 014  | -012 | 044  | 035  | 003  | 038       |
| 2  | 040 | -046 | 006  | 048  | 010  | 034  | -020 | -026      |
| 3  | 090 | -025 | -022 | 006  | 016  | 011  | -020 | -013      |
| 4  | 070 | -056 | 031  | 042  | -007 | 018  | -011 | -002      |
| 5  | *   | 089  | 033  | -005 | 054  | -023 | 023  | -022 014  |
| 6  | *   | 077  | -017 | 023  | 009  | -027 | 019  | -028 003  |
| 7  |     | 202  | 132  | -034 | 120  | -030 | 014  | 007 021   |
| 8  |     | 084  | -025 | 051  | 009  | 012  | 036  | -014 013  |
| 9  |     | 096  | 007  | 020  | 031  | 007  | 033  | -003 019  |
| 10 |     | 011  | -042 | 044  | -063 | -015 | 006  | -004 026  |
| 11 |     | 022  | 012  | 030  | -048 | 012  | 057  | 015 014   |
| 12 | *   | -012 | -067 | 020  | -044 | 030  | 007  | -008 022  |
| 13 | *   | -021 | -028 | 003  | -036 | 036  | -006 | 007 -015  |
| 14 | *   | 010  | -020 | 026  | -033 | 001  | -012 | -001 -002 |
| 15 | **  | -146 | 369  | 159  | 064  | -079 | 020  | 011 119   |
| 16 | **  | -013 | -192 | 020  | -055 | 000  | 027  | -045 -015 |
| 17 |     | 016  | -111 | 017  | 017  | 011  | 007  | -020 000  |
| 18 | **  | 161  | -094 | 013  | 063  | -037 | -048 | -004 095  |
| 19 | **  | 071  | -225 | 026  | 017  | 014  | -021 | 028 -002  |
| 20 | **  | -003 | -124 | 022  | -053 | 017  | -058 | 005 003   |
| 21 |     | 101  | -066 | -037 | 053  | 026  | -103 | -005 047  |
| 22 |     | -006 | -143 | 017  | -018 | 037  | 020  | 026 037   |
| 23 |     | 076  | 010  | -051 | -022 | 025  | -024 | -022 -009 |
| 24 |     | 041  | 024  | -010 | -035 | -001 | -029 | 022 033   |
| 25 |     | 014  | -105 | 055  | -067 | 047  | 003  | 013 006   |
| 26 |     | 085  | -038 | 023  | 017  | 003  | -009 | 015 017   |
| 27 |     | 103  | 014  | -002 | 081  | -008 | 024  | -011 -030 |
| 28 |     | 015  | -015 | -032 | -012 | 004  | -024 | -008 -027 |
| 29 |     | 000  | -069 | 018  | -035 | 027  | 006  | 020 -034  |
| 30 |     | 066  | -016 | 010  | 005  | -002 | -012 | 009 -001  |
| 31 |     | 007  | -102 | 047  | -027 | 003  | 006  | -010 -018 |
|    |     | 046  | -029 | 017  | 002  | 007  | 001  | -003 010  |
| *  |     | 030  | -019 | 014  | -010 | 003  | 005  | -011 003  |

|    | A1  | B1   | A2   | B2  | A3   | B3   | A4   | B4        |
|----|-----|------|------|-----|------|------|------|-----------|
| 1  | 103 | -095 | 104  | 175 | 011  | 064  | 000  | -011      |
| 2  | 142 | -069 | 021  | 130 | -022 | 062  | -002 | -013      |
| 3  | 152 | -036 | 073  | 133 | -047 | 034  | 011  | -021      |
| 4  | 141 | 031  | 035  | 166 | -049 | 079  | -008 | 020       |
| 5  | *   | 127  | -026 | 051 | 111  | -022 | 034  | -001 -021 |
| 6  | *   | 159  | -004 | 070 | 127  | -036 | 034  | -011 -019 |
| 7  |     | 174  | -151 | 120 | 184  | -079 | 049  | -018 010  |
| 8  |     | 159  | -087 | 095 | 191  | -030 | 073  | -024 040  |
| 9  |     | 195  | -033 | 148 | 157  | -035 | 121  | -052 011  |
| 10 |     | 175  | -020 | 154 | 208  | 023  | 086  | -057 -051 |
| 11 |     | 128  | -074 | 177 | 142  | -005 | 086  | -014 048  |
| 12 | *   | 171  | -029 | 132 | 109  | 002  | 090  | -014 001  |
| 13 | *   | 182  | -039 | 092 | 167  | -008 | 122  | -027 000  |
| 14 | *   | 168  | -061 | 095 | 087  | -010 | 065  | -021 -013 |
| 15 | **  | 102  | -335 | 004 | 343  | 140  | 114  | -156 -062 |
| 16 | **  | 072  | -122 | 055 | 138  | -009 | 066  | -031 -022 |
| 17 |     | 201  | -040 | 092 | 153  | -038 | 055  | -057 -029 |
| 18 | **  | 092  | -175 | 020 | 208  | 005  | 028  | -045 -024 |
| 19 | **  | 071  | -101 | 160 | 110  | 005  | 019  | -042 -014 |
| 20 | **  | 084  | -095 | 216 | 180  | 015  | 028  | 009 037   |
| 21 |     | 124  | -077 | 144 | 079  | -016 | 025  | -012 -006 |
| 22 |     | 173  | -085 | 222 | 129  | -011 | 102  | -047 025  |
| 23 |     | 145  | -105 | 164 | 056  | 033  | 050  | -020 022  |
| 24 |     | 138  | -154 | 152 | 186  | 014  | -005 | -038 069  |
| 25 |     | 165  | -142 | 177 | 114  | 006  | 105  | -049 011  |
| 26 |     | 276  | -052 | 133 | 183  | -044 | 061  | -018 -022 |
| 27 |     | 238  | -161 | 130 | 159  | 025  | 111  | -036 -031 |
| 28 |     | 187  | -105 | 171 | 075  | 040  | 086  | -002 012  |
| 29 |     | 170  | -146 | 175 | 120  | 005  | 157  | -029 075  |
| 30 |     | 153  | -087 | 167 | 077  | 015  | 061  | -031 -024 |
| 31 |     | 197  | -096 | 163 | 108  | 003  | 079  | -016 -007 |
|    |     | 154  | -089 | 119 | 144  | -004 | 069  | -027 000  |
| *  |     | 161  | -032 | 089 | 121  | -016 | 069  | -015 -010 |

|    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4        |
|----|------|------|------|-----|------|------|------|-----------|
| 1  | -085 | -143 | 093  | 010 | 028  | 001  | 007  | -011      |
| 2  | 001  | -104 | 095  | 030 | 010  | 053  | -006 | 006       |
| 3  | -026 | -085 | 106  | 004 | -005 | 029  | 009  | 003       |
| 4  | 015  | -062 | 082  | 017 | 005  | 044  | -002 | 012       |
| 5  | *    | -225 | -604 | 248 | -155 | -071 | -014 | 000 -192  |
| 6  | *    | 016  | -052 | 097 | 035  | -002 | 036  | -007 -008 |
| 7  |      | -403 | 248  | 240 | 275  | 085  | 069  | -084 061  |
| 8  |      | -021 | -081 | 128 | 049  | 009  | 047  | -019 037  |
| 9  |      | -020 | -128 | 156 | -003 | 034  | 063  | -024 013  |
| 10 |      | 004  | -113 | 169 | 064  | 067  | 070  | -048 -001 |
| 11 |      | -043 | -121 | 172 | 025  | 048  | 035  | 002 048   |
| 12 | *    | -004 | -116 | 120 | 000  | 040  | 040  | 006 001   |
| 13 | *    | 008  | -094 | 121 | 051  | 035  | 078  | -015 035  |
| 14 | *    | -002 | -071 | 075 | 012  | 040  | 042  | -002 014  |
| 15 | **   | -098 | -245 | 054 | 157  | 177  | 032  | -097 -041 |
| 16 | **   | -104 | -075 | 086 | 054  | 031  | 060  | -018 020  |
| 17 |      | -085 | -095 | 097 | -011 | 023  | 049  | -049 006  |
| 18 | **   | -188 | -102 | 101 | 008  | 050  | 038  | -019 -029 |
| 19 | **   | -166 | 004  | 115 | -109 | 024  | 027  | -048 -013 |
| 20 | **   | -110 | -057 | 149 | -024 | 010  | 019  | 011 011   |
| 21 |      | -107 | -083 | 173 | -111 | 005  | 061  | 002 -039  |
| 22 |      | -042 | -090 | 194 | -048 | 052  | 066  | -014 034  |
| 23 |      | -057 | -094 | 148 | -053 | 054  | 010  | 021 018   |
| 24 |      | -069 | -114 | 164 | 025  | 040  | -007 | -008 050  |
| 25 |      | -053 | -139 | 153 | -018 | 057  | 051  | -014 025  |
| 26 |      | 017  | -121 | 140 | 048  | 019  | 051  | -016 000  |
| 27 |      | -072 | -148 | 130 | -001 | 063  | 067  | -026 029  |
| 28 |      | -042 | -140 | 108 | -052 | 059  | 028  | 000 008   |
| 29 |      | -028 | -115 | 091 | -022 | 050  | 058  | 002 055   |
| 30 |      | -042 | -114 | 096 | -080 | 077  | 005  | 012 012   |
| 31 |      | 003  | -107 | 107 | -031 | 054  | 042  | -009 017  |
|    |      | -065 | -108 | 130 | 006  | 038  | 040  | -016 006  |
| *  |      | -041 | -186 | 133 | -012 | 008  | 037  | -003 -031 |



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|    |    | 1   | 2    | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |
|----|----|-----|------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 54 | 1  |     | 882  | 880  | 876 |     | 877 | 878 | 878 |     | 874  | 870 | 869 |     | 872 | 876 | 875 |     | 874 | 875 | 871 |     | 886 | 880 | 872 | 875 | 882 | 883 | 0   | 876 |     |     |     |     |
|    | 2  | *   | 875  | 873  | 873 |     | 880 | 889 | 886 |     | 885  | 886 | 888 |     | 883 | 877 | 877 |     | 875 | 886 | 888 |     | 882 | 885 | 885 | 884 | 886 | 884 | 0   | 881 |     |     |     |     |
|    | 3  |     | 883  | 887  | 887 |     | 890 | 893 | 889 |     | 886  | 883 | 884 |     | 884 | 886 | 881 |     | 879 | 874 | 874 |     | 869 | 873 | 882 | 886 | 889 | 888 | 0   | 884 |     |     |     |     |
|    | 4  |     | 884  | 883  | 881 |     | 882 | 880 | 879 |     | 882  | 883 | 880 |     | 876 | 876 | 878 |     | 877 | 876 | 876 |     | 881 | 879 | 881 | 881 | 883 | 885 | 0   | 880 |     |     |     |     |
|    | 5  |     | 879  | 871  | 869 |     | 868 | 857 | 852 |     | 845  | 840 | 837 |     | 828 | 827 | 822 |     | 832 | 828 | 833 |     | 838 | 845 | 849 | 855 | 858 | 861 | 866 | 871 | 875 | 0   | 850 |     |
|    | 6  |     | 877  | 881  | 886 |     | 888 | 885 | 879 |     | 877  | 876 | 876 |     | 881 | 881 | 879 |     | 877 | 883 | 879 |     | 872 | 872 | 876 | 880 | 880 | 880 | 880 | 883 | 881 | 0   | 880 |     |
|    | 7  |     | 881  | 882  | 884 |     | 882 | 875 | 868 |     | 871  | 873 | 873 |     | 873 | 873 | 872 |     | 870 | 878 | 879 |     | 878 | 881 | 880 | 879 | 882 | 884 | 887 | 887 | 887 | 0   | 878 |     |
|    | 8  |     | 885  | 881  | 877 |     | 880 | 881 | 873 |     | 873  | 874 | 872 |     | 872 | 872 | 875 |     | 874 | 869 | 870 |     | 868 | 880 | 873 | 876 | 883 | 887 | 891 | 891 | 885 | 0   | 877 |     |
|    | 9  | *   | 888  | 890  | 892 |     | 894 | 883 | 876 |     | 877  | 883 | 888 |     | 886 | 884 | 882 |     | 882 | 882 | 881 |     | 878 | 880 | 879 | 882 | 882 | 881 | 884 | 885 | 884 | 0   | 883 |     |
|    | 10 | *   |      |      | 893 |     | 894 | 893 | 888 |     | 889  | 886 | 885 |     | 883 | 883 | 883 |     | 882 | 882 | 883 |     | 882 | 882 | 884 | 885 | 888 | 889 | 894 | 899 | 898 | 0   | 888 |     |
| 54 | 11 |     | 894  | 890  | 887 |     | 887 | 890 | 889 |     | 884  | 885 | 886 |     | 887 | 887 | 885 |     | 883 | 889 | 895 |     | 890 | 887 | 886 | 885 | 891 | 883 | 879 | 884 | 880 | 0   | 887 |     |
|    | 12 |     | 873  | 880  | 884 |     | 886 | 883 | 877 |     | 874  | 872 | 871 |     | 872 | 870 | 857 |     | 854 | 854 | 855 |     | 878 | 874 | 882 | 881 | 879 | 876 | 882 | 887 | 888 | 0   | 875 |     |
|    | 13 | **  | 894  | 889  | 883 |     | 880 | 877 | 875 |     | 847  | 855 | 854 |     | 865 | 867 | 875 |     | 861 | 843 | 849 |     | 867 | 880 | 877 | 876 | 876 | 873 | 871 | 869 | 871 | 1   | 870 |     |
|    | 14 | **  | 871  | 877  | 867 |     | 845 | 852 | 865 |     | 855  | 855 | 851 |     | 852 | 861 | 852 |     | 853 | 852 | 855 |     | 860 | 876 | 890 | 886 | 883 | 864 | 859 | 852 | 854 | 1   | 862 |     |
|    | 15 | **  | 858  | 863  | 863 |     | 857 | 842 | 846 |     | 846  | 845 | 837 |     | 841 | 857 | 868 |     | 847 | 846 | 871 |     | 875 | 854 | 854 | 872 | 878 | 859 | 860 | 856 | 853 | 1   | 856 |     |
|    | 16 | **  | 853  | 850  | 833 |     | 833 | 846 | 853 |     | 853  | 846 | 864 |     | 853 | 853 | 861 |     | 872 | 869 | 864 |     | 873 | 883 | 887 | 881 | 866 | 864 | 859 | 856 | 860 | 1   | 860 |     |
|    | 17 |     | 868  | 863  | 850 |     | 859 | 858 | 853 |     | 854  | 865 | 871 |     | 873 | 874 | 867 |     | 861 | 867 | 876 |     | 882 | 888 | 899 | 883 | 871 | 866 | 867 | 870 | 884 | 1   | 869 |     |
|    | 18 |     | 880  | 872  | 865 |     | 850 | 854 | 858 |     | 864  | 868 | 868 |     | 865 | 859 | 861 |     | 858 | 862 | 881 |     | 884 | 881 | 878 | 876 | 876 | 873 | 876 | 876 | 875 | 0   | 869 |     |
|    | 19 | **  | 863  | 867  | 865 |     | 854 | 857 | 855 |     | 850* | 858 | 863 |     | 870 | 864 | 870 |     | 873 | 901 | 855 |     | 856 | 861 | 864 | 864 | 869 | 878 | 881 | 878 | 875 | 1   | 866 |     |
|    | 20 |     | 868  | 858  | 838 |     | 850 | 862 | 853 |     | 868  | 873 | 870 |     | 866 | 863 | 864 |     | 869 | 872 | 876 |     | 883 | 869 | 866 | 872 | 878 | 879 | 881 | 884 | 880 | 0   | 868 |     |
|    | 21 |     | 869  | 862  | 855 |     | 866 | 875 | 871 |     | 866  | 860 | 855 |     | 854 | 852 | 859 |     | 863 | 866 | 862 |     | 865 | 868 | 868 | 870 | 874 | 875 | 873 | 876 | 873 | 0   | 866 |     |
|    | 22 |     | 868  | 861  | 855 |     | 858 | 858 | 858 |     | 856  | 861 | 867 |     | 867 | 868 | 872 |     | 873 | 878 | 871 |     | 872 | 873 | 875 | 878 | 883 | 877 | 878 | 881 | 880 | 0   | 870 |     |
|    | 23 |     | 879  | 873  | 865 |     | 859 | 856 | 854 |     | 863  | 862 | 855 |     | 860 | 838 | 858 |     | 856 | 856 | 859 |     | 872 | 870 | 885 | 893 | 883 | 870 | 881 | 874 | 874 | 1   | 866 |     |
|    | 24 |     | 865  | 874  | 885 |     | 881 | 869 | 861 |     | 852  | 865 | 867 |     | 864 | 858 | 861 |     | 868 | 870 | 869 |     | 867 | 876 | 869 | 868 | 868 | 869 | 868 | 870 | 873 | 874 | 0   | 869 |
|    | 25 |     | 877  | 881  | 885 |     | 884 | 874 | 868 |     | 876  | 876 | 875 |     | 873 | 872 | 867 |     | 859 | 862 | 877 |     | 884 | 884 | 878 | 877 | 879 | 886 | 881 | 886 | 881 | 0   | 877 |     |
|    | 26 |     | 878  | 880  | 882 |     | 886 | 894 | 888 |     | 878  | 875 | 875 |     | 878 | 878 | 878 |     | 877 | 877 | 876 |     | 873 | 875 | 878 | 878 | 878 | 888 | 881 | 886 | 890 | 0   | 880 |     |
|    | 27 |     | 890  | 884  | 875 |     | 869 | 865 | 864 |     | 860  | 861 | 869 |     | 872 | 872 | 870 |     | 877 | 878 | 878 |     | 878 | 887 | 888 | 879 | 875 | 875 | 877 | 878 | 881 | 0   | 875 |     |
|    | 28 | *   | 887  | 892  | 895 |     | 896 | 896 | 895 |     | 890  | 884 | 882 |     | 878 | 881 | 882 |     | 882 | 881 | 881 |     | 881 | 881 | 883 | 884 | 887 | 888 | 884 | 884 | 890 | 0   | 886 |     |
|    | 29 |     | 901  | 892  | 887 |     | 887 | 879 | 874 |     | 871  | 868 | 767 |     | 766 | 772 | 776 |     | 779 | 780 | 780 |     | 780 | 881 | 881 | 882 | 885 | 885 | 887 | 889 | 890 | 0   | 847 |     |
|    | 30 | *   | 889  | 899  | 901 |     | 905 | 899 | 894 |     | 885  | 880 | 884 |     | 888 | 883 | 883 |     | 887 | 887 | 888 |     | 891 | 893 | 895 | 896 | 896 | 896 | 891 | 896 | 896 | 0   | 892 |     |
|    |    |     | 878  | 877  | 875 |     | 874 | 873 | 871 |     | 868  | 869 | 866 |     | 866 | 865 | 866 |     | 866 | 867 | 868 |     | 871 | 876 | 878 | 879 | 879 | 877 | 878 | 880 | 880 |     | 873 |     |
|    | ** |     | 885* | 889* | 891 |     | 894 | 892 | 888 |     | 885  | 884 | 885 |     | 884 | 882 | 881 |     | 881 | 881 | 882 |     | 881 | 884 | 886 | 886 | 888 | 888 | 887 | 890 | 890 |     | 886 |     |
|    |    | 868 | 869  | 862  |     | 854 | 855 | 859 |     | 850 | 852  | 854 |     | 856 | 860 | 865 |     | 861 | 862 | 859 |     | 866 | 871 | 874 |     | 876 | 874 | 868 | 866 | 862 | 863 |     |     |     |

WATHEROO  
 NOVEMBER 1953  
 DECLINATION WEST  
 2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  |    | 491  | 495  | 493 |   | 489 | 462 | 444 |   | 439  | 438 | 441 |    | 447 | 457 | 455 |    | 452 | 453 | 459 |    | 467 | 469 | 464 |  | 444 | 460 | 469 |  | 470 | 485 | 499 | 0 | 464 |
|    | 2  | *  | 503  | 494  | 480 |   | 463 | 444 | 423 |   | 411  | 421 | 431 |    | 439 | 442 | 446 |    | 450 | 454 | 458 |    | 459 | 459 | 464 |  | 462 | 462 | 464 |  | 468 | 481 | 493 | 0 | 457 |
|    | 3  |    | 501  | 497  | 483 |   | 459 | 436 | 418 |   | 411  | 418 | 430 |    | 438 | 442 | 448 |    | 452 | 461 | 472 |    | 472 | 467 | 457 |  | 457 | 461 | 461 |  | 467 | 475 | 483 | 0 | 457 |
|    | 4  |    | 490  | 501  | 501 |   | 480 | 447 | 418 |   | 407  | 411 | 426 |    | 439 | 449 | 450 |    | 452 | 456 | 459 |    | 461 | 460 | 460 |  | 460 | 460 | 460 |  | 467 | 470 | 485 | 0 | 457 |
|    | 5  |    | 501  | 501  | 502 |   | 488 | 465 | 426 |   | 397  | 394 | 397 |    | 401 | 433 | 450 |    | 463 | 475 | 480 |    | 487 | 487 | 486 |  | 480 | 473 | 472 |  | 484 | 496 | 499 | 0 | 464 |
|    | 6  |    | 502  | 493  | 489 |   | 477 | 456 | 439 |   | 428  | 423 | 425 |    | 428 | 432 | 439 |    | 449 | 472 | 470 |    | 468 | 465 | 462 |  | 468 | 469 | 473 |  | 477 | 482 | 482 | 0 | 461 |
|    | 7  |    | 482  | 483  | 478 |   | 471 | 451 | 442 |   | 435  | 429 | 438 |    | 443 | 442 | 449 |    | 449 | 459 | 459 |    | 457 | 459 | 462 |  | 462 | 461 | 457 |  | 470 | 485 | 494 | 0 | 459 |
|    | 8  |    | 504  | 501  | 487 |   | 469 | 445 | 430 |   | 428  | 431 | 439 |    | 446 | 449 | 463 |    | 460 | 460 | 468 |    | 468 | 462 | 461 |  | 462 | 462 | 469 |  | 478 | 491 | 501 | 0 | 464 |
|    | 9  | *  | 502  | 504  | 490 |   | 473 | 449 | 437 |   | 428  | 430 | 438 |    | 446 | 447 | 448 |    | 449 | 449 | 452 |    | 456 | 457 | 457 |  | 457 | 457 | 464 |  | 469 | 480 | 488 | 0 | 459 |
|    | 10 | *  |      |      | 480 |   | 456 | 436 | 422 |   | 415  | 422 | 437 |    | 446 | 451 | 451 |    | 451 | 453 | 457 |    | 457 | 459 | 459 |  | 460 | 461 | 463 |  | 471 | 482 | 494 | 0 | 454 |
| 55 | 11 |    | 502  | 500  | 493 |   | 472 | 449 | 430 |   | 422  | 426 | 431 |    | 438 | 443 | 449 |    | 449 | 459 | 469 |    | 459 | 462 | 466 |  | 469 | 469 | 477 |  | 478 | 480 | 491 | 0 | 462 |
|    | 12 |    | 493  | 476  | 476 |   | 466 | 451 | 438 |   | 427  | 420 | 420 |    | 427 | 446 | 447 |    | 449 | 461 | 462 |    | 462 | 465 | 473 |  | 478 | 478 | 488 |  | 470 | 481 | 493 | 0 | 460 |
|    | 13 | ** | 502  | 490  | 469 |   | 449 | 423 | 408 |   | 404  | 407 | 415 |    | 425 | 451 | 458 |    | 488 | 490 | 466 |    | 458 | 447 | 459 |  | 469 | 466 | 449 |  | 457 | 473 | 470 | 1 | 454 |
|    | 14 | ** | 490  | 495  | 480 |   | 446 | 436 | 423 |   | 423  | 417 | 413 |    | 440 | 453 | 443 |    | 469 | 464 | 459 |    | 461 | 461 | 463 |  | 469 | 473 | 449 |  | 464 | 463 | 481 | 1 | 456 |
|    | 15 | ** | 487  | 480  | 477 |   | 467 | 448 | 430 |   | 407  | 397 | 409 |    | 426 | 443 | 477 |    | 487 | 477 | 480 |    | 464 | 479 | 477 |  | 437 | 470 | 477 |  | 486 | 495 | 501 | 1 | 462 |
|    | 16 | ** | 495  | 485  | 471 |   | 449 | 431 | 426 |   | 411  | 418 | 438 |    | 439 | 452 | 462 |    | 462 | 468 | 465 |    | 469 | 480 | 488 |  | 483 | 468 | 471 |  | 480 | 492 | 496 | 1 | 462 |
|    | 17 |    | 521  | 513  | 500 |   | 485 | 469 | 449 |   | 438  | 437 | 435 |    | 438 | 444 | 452 |    | 459 | 467 | 466 |    | 458 | 478 | 482 |  | 482 | 473 | 468 |  | 466 | 469 | 485 | 1 | 468 |
|    | 18 |    | 496  | 501  | 493 |   | 480 | 449 | 432 |   | 426  | 429 | 436 |    | 440 | 460 | 462 |    | 456 | 458 | 460 |    | 457 | 461 | 461 |  | 461 | 463 | 466 |  | 464 | 482 | 502 | 0 | 462 |
|    | 19 | ** | 503  | 499  | 491 |   | 463 | 436 | 410 |   | 397* | 401 | 418 |    | 425 | 456 | 451 |    | 480 | 501 | 483 |    | 468 | 470 | 467 |  | 463 | 459 | 439 |  | 460 | 491 | 501 | 1 | 460 |
|    | 20 |    | 505  | 510  | 480 |   | 465 | 452 | 434 |   | 428  | 428 | 455 |    | 456 | 449 | 448 |    | 456 | 467 | 471 |    | 482 | 483 | 466 |  | 449 | 457 | 469 |  | 457 | 471 | 489 | 0 | 464 |
|    | 21 |    | 502  | 494  | 483 |   | 460 | 436 | 417 |   | 410  | 410 | 426 |    | 441 | 456 | 457 |    | 461 | 459 | 458 |    | 459 | 459 | 459 |  | 449 | 445 | 451 |  | 468 | 488 | 505 | 0 | 456 |
|    | 22 |    | 518  | 513  | 497 |   | 468 | 436 | 428 |   | 427  | 429 | 440 |    | 449 | 451 | 451 |    | 457 | 459 | 458 |    | 458 | 458 | 460 |  | 466 | 464 | 470 |  | 477 | 492 | 502 | 0 | 464 |
|    | 23 |    | 518  | 520  | 498 |   | 471 | 449 | 437 |   | 415  | 396 | 386 |    | 404 | 438 | 473 |    | 458 | 470 | 462 |    | 458 | 456 | 458 |  | 467 | 467 | 477 |  | 463 | 492 | 491 | 1 | 459 |
|    | 24 |    | 494  | 499  | 487 |   | 466 | 440 | 418 |   | 411  | 419 | 425 |    | 431 | 441 | 450 |    | 450 | 451 | 451 |    | 457 | 470 | 470 |  | 466 | 465 | 468 |  | 477 | 485 | 501 | 0 | 458 |
|    | 25 |    | 499  | 490  | 485 |   | 470 | 449 | 428 |   | 423  | 422 | 428 |    | 430 | 441 | 449 |    | 457 | 457 | 459 |    | 458 | 454 | 459 |  | 460 | 456 | 457 |  | 466 | 470 | 480 | 0 | 456 |
|    | 26 |    | 480  | 472  | 467 |   | 453 | 451 | 439 |   | 430  | 438 | 442 |    | 446 | 449 | 449 |    | 449 | 450 | 457 |    | 461 | 457 | 458 |  | 458 | 459 | 458 |  | 468 | 473 | 483 | 0 | 456 |
|    | 27 |    | 495  | 507  | 509 |   | 501 | 480 | 456 |   | 433  | 429 | 428 |    | 433 | 441 | 443 |    | 453 | 451 | 450 |    | 456 | 450 | 459 |  | 459 | 462 | 463 |  | 468 | 470 | 470 | 0 | 461 |
|    | 28 | *  | 481  | 491  | 499 |   | 495 | 480 | 458 |   | 439  | 431 | 430 |    | 437 | 440 | 449 |    | 449 | 449 | 451 |    | 454 | 457 | 457 |  | 458 | 459 | 459 |  | 459 | 460 | 474 | 0 | 459 |
|    | 29 |    | 480  | 491  | 480 |   | 472 | 470 | 460 |   | 450  | 444 | 441 |    | 439 | 449 | 449 |    | 449 | 449 | 451 |    | 456 | 456 | 457 |  | 457 | 458 | 462 |  | 462 | 464 | 470 | 0 | 459 |
|    | 30 | *  | 482  | 479  | 480 |   | 476 | 470 | 459 |   | 451  | 443 | 439 |    | 442 | 444 | 447 |    | 448 | 449 | 451 |    | 454 | 458 | 458 |  | 458 | 459 | 464 |  | 475 | 489 | 500 | 0 | 461 |
|    |    | *  | 497  | 496  | 487 |   | 470 | 450 | 433 |   | 422  | 422 | 429 |    | 436 | 446 | 452 |    | 457 | 462 | 462 |    | 462 | 464 | 464 |  | 462 | 463 | 464 |  | 470 | 480 | 490 |   | 460 |
|    |    | ** | 492* | 492* | 486 |   | 473 | 456 | 440 |   | 429  | 429 | 435 |    | 442 | 445 | 448 |    | 449 | 451 | 454 |    | 456 | 458 | 459 |  | 459 | 460 | 463 |  | 468 | 478 | 490 |   | 459 |
|    |    |    | 495  | 490  | 478 |   | 455 | 435 | 419 |   | 408  | 408 | 419 |    | 431 | 451 | 458 |    | 477 | 480 | 471 |    | 464 | 467 | 471 |  | 464 | 467 | 457 |  | 469 | 483 | 490 |   | 459 |

WATHEROO  
NOVEMBER 1953  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-1153-3-3

|   |    | 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  | 157    | 154  | 146 | 136 | 124 | 119 | 127  | 136 | 145 | 153 | 159 | 159 | 154 | 155 | 156 | 159 | 157 | 156 | 144 | 155 | 160 | 161 | 166 | 170 | 0 | 150 |
|   | 2  | * 165  | 152  | 136 | 119 | 112 | 116 | 124  | 141 | 153 | 158 | 161 | 158 | 161 | 161 | 159 | 156 | 150 | 153 | 153 | 153 | 153 | 156 | 164 | 170 | 0 | 149 |
|   | 3  | 161    | 148  | 128 | 115 | 111 | 114 | 123  | 139 | 150 | 154 | 155 | 156 | 157 | 162 | 165 | 161 | 153 | 147 | 147 | 150 | 152 | 156 | 161 | 162 | 0 | 147 |
|   | 4  | 161    | 156  | 140 | 117 | 101 | 099 | 108  | 126 | 143 | 154 | 158 | 157 | 156 | 156 | 156 | 155 | 151 | 149 | 149 | 149 | 151 | 155 | 158 | 164 | 0 | 145 |
|   | 5  | 162    | 149  | 135 | 120 | 110 | 101 | 104  | 125 | 146 | 164 | 190 | 194 | 196 | 196 | 189 | 182 | 176 | 167 | 160 | 156 | 159 | 166 | 169 | 168 | 0 | 158 |
|   | 6  | 160    | 147  | 141 | 132 | 125 | 125 | 129  | 133 | 140 | 144 | 149 | 154 | 159 | 166 | 162 | 158 | 153 | 149 | 148 | 148 | 152 | 155 | 155 | 155 | 0 | 147 |
|   | 7  | 149    | 144  | 134 | 124 | 123 | 127 | 132  | 139 | 150 | 154 | 155 | 159 | 159 | 160 | 156 | 155 | 151 | 151 | 151 | 150 | 148 | 154 | 160 | 161 | 0 | 148 |
|   | 8  | 159    | 154  | 141 | 126 | 119 | 124 | 130  | 139 | 149 | 152 | 155 | 160 | 159 | 159 | 161 | 158 | 153 | 150 | 147 | 147 | 148 | 151 | 158 | 162 | 0 | 148 |
|   | 9  | * 153  | 149  | 141 | 128 | 123 | 123 | 125  | 133 | 143 | 150 | 152 | 152 | 155 | 155 | 157 | 155 | 154 | 151 | 151 | 150 | 152 | 155 | 160 | 163 | 0 | 147 |
|   | 10 | * 153  | 149  | 141 | 127 | 119 | 121 | 126  | 140 | 151 | 157 | 156 | 155 | 157 | 157 | 158 | 156 | 155 | 153 | 151 | 150 | 150 | 153 | 159 | 163 | 0 | 148 |
|   | 11 | 162    | 158  | 151 | 137 | 125 | 119 | 120  | 131 | 142 | 147 | 150 | 151 | 154 | 158 | 160 | 153 | 154 | 154 | 154 | 149 | 152 | 153 | 154 | 162 | 0 | 148 |
|   | 12 | 163    | 146  | 136 | 126 | 124 | 124 | 124  | 132 | 141 | 149 | 159 | 163 | 169 | 172 | 172 | 163 | 161 | 159 | 159 | 158 | 161 | 149 | 151 | 159 | 0 | 151 |
|   | 13 | ** 154 | 144  | 137 | 130 | 118 | 123 | 140  | 151 | 159 | 163 | 179 | 170 | 185 | 191 | 165 | 156 | 147 | 153 | 157 | 152 | 143 | 145 | 152 | 150 | 1 | 153 |
|   | 14 | ** 153 | 151  | 142 | 132 | 132 | 128 | 138  | 142 | 149 | 164 | 167 | 163 | 180 | 171 | 163 | 162 | 158 | 154 | 155 | 154 | 143 | 154 | 152 | 158 | 1 | 153 |
| g | 15 | ** 153 | 148  | 146 | 145 | 138 | 138 | 139  | 147 | 165 | 168 | 168 | 177 | 186 | 178 | 164 | 155 | 162 | 162 | 140 | 152 | 159 | 161 | 164 | 161 | 1 | 157 |
|   | 16 | ** 154 | 147  | 142 | 133 | 128 | 132 | 137  | 150 | 163 | 167 | 172 | 171 | 161 | 163 | 160 | 160 | 160 | 163 | 157 | 154 | 156 | 162 | 167 | 164 | 1 | 155 |
|   | 17 | 161    | 148  | 139 | 129 | 124 | 118 | 124  | 132 | 140 | 147 | 152 | 159 | 163 | 165 | 156 | 150 | 162 | 154 | 154 | 154 | 154 | 155 | 158 | 158 | 1 | 148 |
|   | 18 | 155    | 151  | 142 | 127 | 116 | 114 | 121  | 133 | 145 | 153 | 169 | 169 | 159 | 156 | 148 | 145 | 148 | 148 | 149 | 153 | 154 | 156 | 164 | 167 | 0 | 148 |
|   | 19 | ** 163 | 154  | 142 | 132 | 121 | 112 | 121* | 138 | 149 | 152 | 171 | 165 | 175 | 170 | 165 | 154 | 151 | 148 | 148 | 147 | 140 | 151 | 163 | 163 | 1 | 150 |
|   | 20 | 157    | 152  | 135 | 122 | 114 | 110 | 111  | 126 | 157 | 161 | 156 | 156 | 159 | 160 | 156 | 157 | 155 | 146 | 137 | 141 | 149 | 146 | 149 | 155 | 0 | 144 |
|   | 21 | 166    | 159  | 142 | 116 | 095 | 092 | 115  | 135 | 154 | 166 | 172 | 171 | 168 | 162 | 158 | 155 | 151 | 151 | 148 | 146 | 149 | 161 | 170 | 175 | 0 | 149 |
|   | 22 | 173    | 165  | 144 | 119 | 102 | 103 | 119  | 136 | 148 | 153 | 154 | 154 | 159 | 157 | 157 | 154 | 153 | 152 | 150 | 148 | 153 | 157 | 167 | 172 | 0 | 148 |
|   | 23 | 171    | 165  | 146 | 127 | 110 | 110 | 111  | 118 | 132 | 153 | 181 | 188 | 173 | 176 | 167 | 156 | 155 | 150 | 150 | 153 | 161 | 150 | 161 | 159 | 1 | 151 |
|   | 24 | 160    | 154  | 137 | 127 | 128 | 126 | 136  | 143 | 149 | 155 | 161 | 164 | 160 | 160 | 160 | 160 | 161 | 161 | 155 | 152 | 153 | 157 | 161 | 162 | 0 | 152 |
|   | 25 | 161    | 153  | 143 | 130 | 123 | 123 | 127  | 134 | 143 | 147 | 153 | 157 | 165 | 164 | 159 | 153 | 152 | 155 | 152 | 150 | 147 | 152 | 151 | 155 | 0 | 148 |
|   | 26 | 152    | 144  | 139 | 136 | 136 | 131 | 136  | 144 | 147 | 147 | 149 | 150 | 149 | 152 | 155 | 157 | 152 | 150 | 148 | 148 | 146 | 150 | 152 | 156 | 0 | 147 |
|   | 27 | 172    | 172  | 159 | 146 | 138 | 128 | 128  | 139 | 146 | 152 | 157 | 159 | 161 | 157 | 158 | 159 | 155 | 156 | 156 | 156 | 155 | 155 | 156 | 156 | 0 | 153 |
|   | 28 | * 160  | 157  | 149 | 139 | 130 | 127 | 125  | 129 | 139 | 144 | 148 | 148 | 148 | 148 | 148 | 148 | 149 | 148 | 147 | 147 | 148 | 148 | 150 | 152 | 0 | 145 |
|   | 29 | 146    | 150  | 140 | 135 | 134 | 129 | 129  | 134 | 142 | 145 | 150 | 147 | 144 | 144 | 145 | 147 | 148 | 148 | 147 | 147 | 147 | 146 | 146 | 145 | 0 | 143 |
|   | 30 | * 141  | 140  | 142 | 134 | 131 | 129 | 131  | 135 | 136 | 141 | 143 | 144 | 141 | 142 | 142 | 142 | 142 | 142 | 141 | 141 | 143 | 148 | 152 | 155 | 0 | 141 |
|   |    | 159    | 152  | 141 | 129 | 121 | 120 | 125  | 136 | 147 | 154 | 160 | 161 | 162 | 162 | 159 | 156 | 154 | 153 | 150 | 150 | 151 | 154 | 158 | 161 |   | 149 |
|   | *  | 155*   | 150* | 142 | 129 | 123 | 123 | 126  | 136 | 144 | 150 | 152 | 151 | 152 | 153 | 153 | 151 | 150 | 149 | 149 | 148 | 149 | 152 | 157 | 161 |   | 146 |
|   | ** | 155    | 149  | 142 | 134 | 127 | 127 | 135  | 146 | 157 | 163 | 171 | 169 | 177 | 175 | 163 | 157 | 156 | 156 | 151 | 152 | 148 | 155 | 160 | 159 |   | 154 |

WATHEROO  
NOVEMBER 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1153-1-3

WATHEROO  
NOVEMBER 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-1153-2-3

WATHEROO  
NOVEMBER 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1153-3-3

57

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | 039  | -005 | -002 | 005  | 010  | -001 | 014  | 010  |
| 2  | *  | 013  | 004  | -049 | -039 | 007  | -011 | 007  | -027 |
| 3  |    | 053  | 038  | -009 | -030 | -031 | 009  | 009  | -011 |
| 4  |    | 032  | 009  | 000  | -006 | 009  | -001 | 009  | 006  |
| 5  |    | 238  | -008 | 002  | 019  | 013  | 005  | 007  | 003  |
| 6  |    | 022  | 017  | 013  | 005  | -032 | 003  | -012 | -003 |
| 7  |    | 056  | -041 | 016  | 003  | 007  | 002  | -024 | -003 |
| 8  |    | 079  | -011 | 023  | -034 | -020 | -014 | -002 | -007 |
| 9  | *  | 025  | 021  | 026  | 005  | -003 | 030  | -026 | 008  |
| 10 | *  |      |      |      |      |      |      |      |      |
| 11 |    | -007 | 002  | -003 | 029  | 006  | 008  | -006 | 012  |
| 12 |    | 112  | 005  | -048 | -012 | 017  | 028  | -014 | -049 |
| 13 | ** | 113  | -016 | 008  | 034  | -023 | 099  | 026  | -045 |
| 14 | ** | 042  | -090 | -065 | 011  | 011  | 088  | 055  | 034  |
| 15 | ** | 027  | -095 | 010  | 030  | -027 | 030  | -014 | 020  |
| 16 | ** | -072 | -150 | -036 | -012 | 034  | 002  | 058  | -004 |
| 17 |    | -028 | -105 | -009 | -018 | 066  | 043  | 019  | -036 |
| 18 |    | 026  | -095 | -005 | -008 | 079  | 000  | -009 | 015  |
| 19 | ** | 004  | -059 | 082  | -041 | -035 | -026 | -006 | 024  |
| 20 |    | -016 | -088 | 009  | -062 | 047  | -066 | 003  | 004  |
| 21 |    | 058  | -042 | -025 | -001 | -017 | -048 | 026  | -014 |
| 22 |    | -003 | -102 | 028  | -043 | -001 | -014 | 011  | -004 |
| 23 |    | 094  | -109 | -039 | -013 | 033  | 026  | 031  | 030  |
| 24 |    | 045  | -017 | 011  | 042  | -004 | 018  | -038 | 001  |
| 25 |    | 065  | -024 | -022 | 001  | 031  | 015  | -047 | -017 |
| 26 |    | 043  | 024  | 001  | 006  | -025 | -016 | 010  | -032 |
| 27 |    | 026  | -077 | 039  | 029  | 033  | 035  | 012  | -002 |
| 28 | *  | 052  | 036  | -017 | 026  | -024 | -004 | 006  | 002  |
| 29 |    | 643  | -045 | -239 | 038  | -004 | 004  | 162  | 008  |
| 30 | *  | 064  | -013 | -016 | 036  | -026 | 017  | -014 | -015 |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | 063  | -035 | -010 | 001  | 005  | 007  | 008  | -005 |
|    |    | 043  | 013  | -011 | 004  | -012 | 004  | -008 | -009 |

|    |    | A1  | B1   | A2  | B2  | A3   | B3   | A4   | B4   |
|----|----|-----|------|-----|-----|------|------|------|------|
| 1  |    | 189 | -038 | 123 | 092 | 023  | 045  | -036 | -044 |
| 2  | *  | 206 | -141 | 164 | 080 | 035  | 079  | -008 | 006  |
| 3  |    | 163 | -163 | 179 | 118 | 050  | 070  | -042 | 026  |
| 4  |    | 198 | -121 | 174 | 137 | -018 | 121  | -054 | 000  |
| 5  |    | 270 | -290 | 157 | 255 | -049 | 041  | -007 | -046 |
| 6  |    | 222 | -144 | 105 | 138 | -003 | 012  | -029 | 033  |
| 7  |    | 172 | -085 | 106 | 066 | 021  | 023  | 002  | -017 |
| 8  |    | 186 | -116 | 187 | 070 | 039  | 048  | -011 | 007  |
| 9  | *  | 214 | -058 | 145 | 076 | 030  | 081  | -017 | 009  |
| 10 | *  |     |      |     |     |      |      |      |      |
| 11 |    | 222 | -140 | 138 | 091 | 006  | 067  | -029 | 030  |
| 12 |    | 203 | -191 | 083 | 068 | -028 | 031  | 020  | 000  |
| 13 | ** | 087 | -210 | 251 | 122 | -036 | 065  | 053  | 086  |
| 14 | ** | 132 | -164 | 154 | 101 | 002  | 086  | 037  | 045  |
| 15 | ** | 148 | -238 | 235 | 133 | -065 | -023 | 013  | -065 |
| 16 | ** | 139 | -248 | 153 | 046 | 042  | 075  | 031  | -020 |
| 17 |    | 215 | -090 | 080 | 157 | 006  | 104  | 039  | 050  |
| 18 |    | 189 | -082 | 174 | 088 | 005  | 087  | 000  | -003 |
| 19 | ** | 131 | -219 | 285 | 202 | 020  | 059  | 019  | 019  |
| 20 |    | 128 | -099 | 143 | 124 | 097  | 077  | -045 | 013  |
| 21 |    | 177 | -129 | 254 | 093 | 046  | 074  | 011  | -038 |
| 22 |    | 236 | -105 | 206 | 058 | 053  | 090  | -006 | 042  |
| 23 |    | 285 | -181 | 231 | 196 | -078 | 050  | 074  | 027  |
| 24 |    | 236 | -174 | 161 | 080 | 024  | 091  | -002 | -010 |
| 25 |    | 180 | -100 | 145 | 117 | 000  | 060  | 002  | 022  |
| 26 |    | 120 | -083 | 090 | 027 | 035  | 026  | -005 | -017 |
| 27 |    | 248 | 003  | 075 | 165 | -069 | 072  | -030 | 009  |
| 28 | *  | 196 | 010  | 043 | 150 | -060 | 060  | -014 | -014 |
| 29 |    | 150 | 006  | 035 | 080 | -012 | 031  | 007  | 005  |
| 30 | *  | 205 | -019 | 063 | 044 | 011  | -016 | 017  | -044 |
|    |    |     |      |     |     |      |      |      |      |
|    | *  | 188 | -124 | 151 | 109 | 006  | 059  | -002 | 004  |
|    |    | 199 | -068 | 117 | 080 | 010  | 057  | -008 | -008 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  |    | 004  | -123 | 117 | -036 | 038  | 024  | -023 | -016 |
| 2  | *  | -036 | -133 | 143 | -069 | 071  | 028  | 008  | 025  |
| 3  |    | -054 | -146 | 134 | -055 | 079  | -001 | -011 | 024  |
| 4  |    | -025 | -171 | 177 | -047 | 062  | 067  | -021 | 023  |
| 5  |    | -174 | -263 | 245 | -013 | 017  | 036  | -007 | -021 |
| 6  |    | -027 | -118 | 102 | 007  | 024  | -009 | -004 | 019  |
| 7  |    | -052 | -104 | 093 | -049 | 038  | -001 | 011  | 001  |
| 8  |    | -040 | -101 | 118 | -021 | 057  | 016  | 004  | 017  |
| 9  | *  | -012 | -122 | 098 | -026 | 037  | 015  | -006 | -002 |
| 10 | *  |      |      |     |      |      |      |      |      |
| 11 |    | 010  | -120 | 109 | 013  | 031  | 045  | -014 | 020  |
| 12 |    | -071 | -169 | 107 | 002  | 015  | 014  | 017  | 026  |
| 13 | ** | -162 | -081 | 133 | -039 | 010  | 016  | 026  | 058  |
| 14 | ** | -098 | -090 | 105 | -011 | 016  | 019  | 015  | 011  |
| 15 | ** | -100 | -062 | 118 | -033 | -006 | -007 | -005 | -013 |
| 16 | ** | -071 | -093 | 088 | -074 | 042  | 027  | -003 | -021 |
| 17 |    | -026 | -144 | 110 | -016 | 017  | 022  | 016  | 012  |
| 18 |    | -024 | -114 | 156 | -073 | 012  | 049  | 009  | -006 |
| 19 | ** | -070 | -106 | 179 | -013 | 033  | 031  | 008  | 014  |
| 20 |    | -069 | -116 | 151 | -027 | 062  | 053  | -039 | 008  |
| 21 |    | -056 | -157 | 234 | -088 | 086  | 072  | -011 | 018  |
| 22 |    | 007  | -152 | 179 | -049 | 096  | 052  | -002 | 043  |
| 23 |    | -069 | -169 | 235 | -005 | -019 | 071  | 015  | 012  |
| 24 |    | -044 | -116 | 091 | -035 | 050  | 020  | 020  | -003 |
| 25 |    | -037 | -114 | 109 | 002  | 022  | 027  | 016  | 030  |
| 26 |    | -021 | -068 | 045 | -010 | 039  | 000  | -004 | -003 |
| 27 |    | 018  | -082 | 101 | 024  | 013  | 064  | -011 | 026  |
| 28 | *  | 025  | -075 | 082 | 012  | 015  | 046  | -006 | 008  |
| 29 |    | -005 | -062 | 041 | -011 | 009  | 037  | -009 | -003 |
| 30 | *  | 017  | -050 | 052 | -020 | 014  | 001  | -003 | -017 |
|    |    |      |      |     |      |      |      |      |      |
|    | *  | -042 | -117 | 125 | -027 | 035  | 030  | 000  | 009  |
|    |    | -007 | -099 | 097 | -028 | 040  | 024  | -003 | 006  |

WATHEROO  
 DECEMBER 1953  
 HORIZONTAL INTENSITY  
 24000 PLUS TABULAR VALUES IN GAMMAS

2-1253-1-3

|    |    | 1   | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 58 | 1  | *   | 887 | 881 | 882 | 883  | 893 | 894 | 889 | 890 | 890 | 888 | 889 | 892 | 889 | 889 | 888 | 888 | 890 | 892 | 893 | 896 | 895 | 894 | 900 | 902 | 0   | 891 |
|    | 2  | *   | 900 | 900 | 901 | 895  | 888 | 882 | 879 | 876 | 881 | 885 | 886 | 890 | 891 | 892 | 893 | 892 | 892 | 892 | 889 | 887 | 888 | 888 | 890 | 891 | 0   | 890 |
|    | 3  |     | 888 | 887 | 884 | 888  | 891 | 890 | 889 | 885 | 885 | 885 | 884 | 880 | 877 | 877 | 874 | 883 | 885 | 886 | 887 | 890 | 889 | 896 | 899 | 887 | 0   | 886 |
|    | 4  |     | 887 | 894 | 890 | 888  | 882 | 874 | 874 | 875 | 877 | 882 | 883 | 885 | 889 | 891 | 891 | 890 | 893 | 892 | 899 | 893 | 890 | 890 | 890 | 890 | 0   | 887 |
|    | 5  |     | 895 | 892 | 889 | 896  | 899 | 892 | 883 | 877 | 876 | 876 | 878 | 881 | 881 | 883 | 879 | 880 | 880 | 886 | 883 | 889 | 890 | 895 | 899 | 899 | 0   | 887 |
|    | 6  |     | 894 | 897 | 898 | 897  | 893 | 890 | 888 | 888 | 892 | 898 | 900 | 895 | 886 | 879 | 871 | 877 | 880 | 886 | 890 | 889 | 892 | 892 | 899 | 899 | 0   | 890 |
|    | 7  |     | 896 | 894 | 886 | 889  | 894 | 894 | 883 | 883 | 883 | 883 | 880 | 876 | 882 | 883 | 883 | 883 | 884 | 883 | 883 | 885 | 887 | 893 | 893 | 895 | 0   | 886 |
|    | 8  |     | 894 | 892 | 887 | 882  | 878 | 879 | 884 | 876 | 880 | 885 | 888 | 892 | 891 | 893 | 891 | 889 | 884 | 886 | 887 | 884 | 889 | 890 | 896 | 897 | 0   | 887 |
|    | 9  |     | 906 | 905 | 900 | 888  | 879 | 873 | 871 | 872 | 875 | 877 | 880 | 883 | 881 | 883 | 881 | 883 | 880 | 891 | 889 | 885 | 905 | 900 | 899 | 904 | 0   | 887 |
|    | 10 |     | 904 | 907 | 902 | 899  | 893 | 887 | 883 | 878 | 877 | 882 | 874 | 874 | 879 | 877 | 877 | 881 | 886 | 892 | 896 | 901 | 901 | 902 | 907 | 907 | 0   | 890 |
| 59 | 11 | **  | 907 | 913 | 913 | 914  | 902 | 894 | 891 | 892 | 884 | 890 | 867 | 863 | 861 | 867 | 855 | 861 | 866 | 893 | 886 | 877 | 876 | 871 | 866 | 863 | 1   | 882 |
|    | 12 | **  | 868 | 878 | 878 | 875  | 867 | 849 | 845 | 852 | 860 | 862 | 865 | 878 | 855 | 858 | 867 | 886 | 870 | 877 | 876 | 875 | 868 | 867 | 873 | 871 | 1   | 868 |
|    | 13 | **  | 877 | 884 | 883 | 877  | 870 | 864 | 861 | 868 | 873 | 876 | 877 | 876 | 867 | 863 | 868 | 871 | 875 | 879 | 880 | 887 | 876 | 882 | 886 | 886 | 0   | 875 |
|    | 14 |     | 884 | 885 | 889 | 884  | 878 | 878 | 876 | 876 | 873 | 870 | 870 | 873 | 873 | 873 | 872 | 873 | 875 | 878 | 872 | 878 | 883 | 884 | 884 | 883 | 0   | 878 |
|    | 15 |     | 881 | 881 | 885 | 890  | 890 | 892 | 891 | 882 | 884 | 888 | 889 | 888 | 882 | 885 | 886 | 887 | 888 | 886 | 886 | 892 | 896 | 892 | 898 | 900 | 0   | 888 |
| 60 | 16 |     | 897 | 887 | 884 | 879* | 878 | 881 | 879 | 878 | 875 | 873 | 873 | 878 | 878 | 882 | 884 | 883 | 887 | 893 | 892 | 889 | 893 | 897 | 900 | 900 | 0   | 885 |
|    | 17 |     | 899 | 893 | 888 | 886  | 883 | 894 | 899 | 901 | 900 | 895 | 893 | 890 | 887 | 888 | 892 | 891 | 905 | 898 | 898 | 896 | 893 | 896 | 906 | 906 | 1   | 895 |
|    | 18 |     | 901 | 893 | 888 | 883  | 885 | 889 | 889 | 892 | 891 | 889 | 889 | 891 | 889 | 886 | 884 | 886 | 888 | 891 | 896 | 894 | 894 | 896 | 900 | 901 | 0   | 891 |
|    | 19 |     | 900 | 897 | 893 | 890  | 892 | 895 | 897 | 895 | 897 | 899 | 900 | 898 | 894 | 891 | 891 | 890 | 896 | 903 | 899 | 896 | 896 | 896 | 898 | 894 | 0   | 896 |
|    | 20 |     | 893 | 893 | 886 | 876  | 869 | 869 | 876 | 877 | 884 | 888 | 889 | 888 | 885 | 881 | 882 | 891 | 890 | 889 | 892 | 902 | 903 | 904 | 904 | 901 | 0   | 888 |
| 61 | 21 |     | 901 | 896 | 889 | 886  | 885 | 881 | 880 | 880 | 882 | 881 | 882 | 884 | 885 | 887 | 884 | 884 | 884 | 887 | 887 | 890 | 891 | 896 | 902 | 908 | 0   | 888 |
|    | 22 | **  | 909 | 905 | 897 | 891  | 883 | 874 | 875 | 890 | 906 | 901 | 895 | 890 | 892 | 887 | 882 | 881 | 890 | 884 | 885 | 896 | 895 | 892 | 892 | 892 | 1   | 891 |
|    | 23 | *   | 882 | 870 | 860 | 857  | 862 | 870 | 876 | 878 | 881 | 883 | 883 | 881 | 883 | 881 | 885 | 885 | 887 | 885 | 893 | 889 | 887 | 893 | 898 | 898 | 0   | 881 |
|    | 24 |     | 891 | 879 | 868 | 865  | 863 | 868 | 880 | 876 | 884 | 885 | 882 | 886 | 884 | 883 | 882 | 884 | 885 | 887 | 890 | 892 | 890 | 893 | 901 | 905 | 0   | 883 |
|    | 25 |     | 906 | 903 | 897 | 890  | 887 | 893 | 892 | 899 | 896 | 892 | 887 | 887 | 885 | 883 | 882 | 886 | 892 | 891 | 888 | 888 | 894 | 896 | 905 | 913 | 0   | 893 |
| 62 | 26 |     | 911 | 900 | 878 | 859  | 856 | 866 | 881 | 891 | 891 | 887 | 886 | 888 | 891 | 891 | 892 | 892 | 889 | 889 | 887 | 888 | 891 | 892 | 897 | 897 | 0   | 887 |
|    | 27 |     | 898 | 886 | 869 | 858  | 855 | 861 | 865 | 877 | 886 | 887 | 882 | 884 | 885 | 886 | 886 | 889 | 892 | 891 | 893 | 891 | 890 | 887 | 898 | 904 | 0   | 883 |
|    | 28 |     | 902 | 901 | 889 | 878  | 872 | 879 | 888 | 896 | 893 | 885 | 882 | 885 | 883 | 878 | 885 | 886 | 889 | 893 | 891 | 894 | 888 | 888 | 889 | 888 | 0   | 888 |
|    | 29 | **  | 883 | 884 | 886 | 882  | 883 | 882 | 884 | 891 | 900 | 896 | 891 | 890 | 890 | 888 | 891 | 894 | 902 | 917 | 907 | 896 | 896 | 901 | 899 | 889 | 0   | 893 |
|    | 30 | *   | 879 | 875 | 869 | 867  | 857 | 854 | 859 | 873 | 885 | 893 | 892 | 885 | 885 | 887 | 890 | 890 | 892 | 892 | 898 | 896 | 889 | 889 | 888 | 886 | 0   | 882 |
| 63 | 31 | *   | 885 | 886 | 892 | 890  | 889 | 884 | 875 | 874 | 882 | 881 | 882 | 883 | 884 | 886 | 885 | 886 | 887 | 888 | 890 | 891 | 891 | 890 | 889 | 881 | 0   | 885 |
|    |    | *   | 894 | 892 | 887 | 883  | 881 | 880 | 880 | 882 | 885 | 885 | 884 | 884 | 883 | 883 | 882 | 885 | 887 | 890 | 890 | 890 | 891 | 892 | 895 | 895 |     | 887 |
|    | ** | 887 | 882 | 881 | 878 | 878  | 877 | 876 | 878 | 884 | 886 | 886 | 886 | 886 | 886 | 887 | 888 | 888 | 890 | 890 | 893 | 892 | 890 | 891 | 893 | 892 |     | 886 |
|    |    | 889 | 893 | 891 | 888 | 881  | 873 | 871 | 879 | 885 | 885 | 879 | 879 | 873 | 873 | 873 | 879 | 881 | 890 | 887 | 886 | 882 | 883 | 883 | 880 |     | 882 |     |

WATHEROO  
 DECEMBER 1953  
 DECLINATION WEST  
 2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | *  | 511 | 509 | 491 | 466 | 446 | 433 | 430 | 429 | 429 | 430 | 436 | 440 | 445 | 448 | 451 | 455 | 456 | 458 | 458 | 459 | 461 | 467 | 476 | 489 | 0 | 457 |
|    |    | 504 | 509 | 495 | 471 | 449 | 430 | 421 | 425 | 432 | 434 | 436 | 438 | 441 | 447 | 450 | 454 | 458 | 464 | 462 | 460 | 461 | 465 | 476 | 492 | 0 | 457 |
|    |    | 503 | 511 | 504 | 479 | 453 | 439 | 429 | 429 | 436 | 437 | 442 | 448 | 452 | 451 | 459 | 460 | 463 | 468 | 470 | 473 | 474 | 482 | 498 | 509 | 0 | 465 |
|    |    | 502 | 494 | 478 | 463 | 447 | 439 | 428 | 418 | 422 | 433 | 442 | 440 | 442 | 444 | 452 | 456 | 457 | 459 | 459 | 461 | 463 | 470 | 484 | 491 | 0 | 456 |
| 5  |    | 499 | 498 | 489 | 482 | 468 | 447 | 432 | 432 | 437 | 439 | 440 | 444 | 448 | 448 | 451 | 458 | 466 | 455 | 455 | 459 | 460 | 468 | 479 | 490 | 0 | 460 |
| 6  |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    |    | 496 | 494 | 479 | 470 | 460 | 442 | 429 | 427 | 429 | 431 | 435 | 441 | 451 | 469 | 470 | 460 | 460 | 458 | 461 | 466 | 462 | 470 | 481 | 494 | 0 | 460 |
|    |    | 500 | 501 | 483 | 463 | 450 | 431 | 421 | 421 | 430 | 440 | 449 | 448 | 446 | 447 | 449 | 451 | 452 | 452 | 455 | 456 | 462 | 464 | 468 | 478 | 0 | 455 |
|    |    | 490 | 499 | 497 | 478 | 460 | 444 | 439 | 435 | 437 | 440 | 445 | 445 | 445 | 448 | 450 | 470 | 461 | 460 | 460 | 458 | 457 | 469 | 476 | 476 | 0 | 460 |
|    |    | 478 | 483 | 473 | 457 | 449 | 440 | 432 | 435 | 442 | 448 | 450 | 450 | 450 | 455 | 454 | 454 | 457 | 459 | 465 | 455 | 444 | 473 | 479 | 489 | 0 | 457 |
| 10 |    | 499 | 501 | 490 | 473 | 458 | 440 | 425 | 422 | 428 | 438 | 444 | 444 | 447 | 451 | 455 | 453 | 458 | 458 | 461 | 468 | 472 | 473 | 479 | 493 | 0 | 460 |
| 59 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | ** | 494 | 502 | 501 | 481 | 452 | 431 | 419 | 406 | 406 | 420 | 420 | 435 | 464 | 514 | 482 | 460 | 470 | 470 | 482 | 481 | 467 | 473 | 499 | 499 | 1 | 464 |
|    | ** | 503 | 500 | 484 | 474 | 457 | 437 | 422 | 437 | 429 | 438 | 440 | 448 | 454 | 454 | 458 | 470 | 465 | 458 | 458 | 480 | 479 | 481 | 488 | 489 | 1 | 463 |
|    | ** | 481 | 491 | 495 | 479 | 460 | 441 | 428 | 426 | 431 | 443 | 448 | 448 | 453 | 460 | 458 | 455 | 453 | 458 | 462 | 465 | 461 | 478 | 489 | 491 | 0 | 461 |
|    |    | 484 | 478 | 463 | 444 | 432 | 430 | 427 | 418 | 427 | 437 | 439 | 440 | 448 | 455 | 459 | 458 | 460 | 462 | 463 | 459 | 464 | 473 | 481 | 482 | 1 | 453 |
| 15 |    | 484 | 483 | 473 | 464 | 458 | 447 | 439 | 433 | 429 | 435 | 439 | 442 | 447 | 454 | 458 | 458 | 457 | 459 | 458 | 447 | 458 | 466 | 473 | 472 | 0 | 456 |
| 16 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    |    | 481 | 479 | 480 | 470 | 462 | 459 | 443 | 431 | 427 | 429 | 428 | 434 | 440 | 446 | 452 | 454 | 458 | 459 | 468 | 468 | 469 | 471 | 474 | 475 | 0 | 457 |
|    |    | 471 | 472 | 473 | 471 | 468 | 443 | 426 | 416 | 418 | 426 | 431 | 441 | 442 | 449 | 461 | 457 | 460 | 461 | 468 | 467 | 471 | 470 | 470 | 488 | 0 | 455 |
|    |    | 490 | 480 | 469 | 451 | 441 | 435 | 431 | 433 | 441 | 442 | 443 | 442 | 443 | 448 | 460 | 465 | 460 | 451 | 459 | 470 | 471 | 483 | 483 | 485 | 0 | 457 |
|    |    | 482 | 483 | 468 | 465 | 449 | 440 | 435 | 431 | 429 | 430 | 437 | 439 | 442 | 446 | 451 | 457 | 458 | 465 | 469 | 471 | 480 | 494 | 501 | 500 | 0 | 459 |
| 20 |    | 493 | 487 | 474 | 452 | 437 | 421 | 415 | 421 | 431 | 439 | 442 | 445 | 445 | 450 | 458 | 463 | 468 | 463 | 452 | 460 | 471 | 481 | 488 | 493 | 0 | 456 |
| 21 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    |    | 484 | 469 | 449 | 429 | 425 | 422 | 426 | 433 | 440 | 448 | 447 | 446 | 446 | 446 | 449 | 450 | 456 | 458 | 461 | 463 | 469 | 481 | 484 | 492 | 0 | 453 |
|    | ** | 495 | 495 | 483 | 470 | 458 | 432 | 419 | 416 | 410 | 417 | 430 | 439 | 445 | 452 | 463 | 468 | 470 | 464 | 460 | 445 | 452 | 467 | 478 | 486 | 1 | 455 |
|    | *  | 494 | 495 | 489 | 479 | 466 | 444 | 430 | 432 | 439 | 441 | 444 | 447 | 448 | 449 | 460 | 460 | 449 | 455 | 437 | 454 | 459 | 468 | 479 | 485 | 0 | 458 |
|    |    | 499 | 502 | 489 | 473 | 461 | 430 | 408 | 415 | 421 | 430 | 439 | 451 | 450 | 451 | 452 | 453 | 456 | 458 | 458 | 459 | 461 | 475 | 477 | 473 | 0 | 456 |
| 25 |    | 473 | 481 | 483 | 475 | 460 | 450 | 444 | 437 | 435 | 432 | 433 | 440 | 450 | 452 | 460 | 459 | 457 | 459 | 463 | 464 | 469 | 472 | 462 | 472 | 0 | 458 |
| 26 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    |    | 478 | 489 | 489 | 479 | 451 | 427 | 418 | 421 | 432 | 441 | 438 | 440 | 438 | 442 | 448 | 451 | 459 | 460 | 459 | 457 | 450 | 441 | 445 | 473 | 0 | 451 |
|    |    | 499 | 514 | 503 | 488 | 459 | 426 | 410 | 410 | 421 | 428 | 439 | 445 | 445 | 449 | 451 | 452 | 471 | 462 | 459 | 459 | 449 | 438 | 446 | 468 | 0 | 454 |
|    |    | 493 | 515 | 513 | 501 | 472 | 451 | 437 | 424 | 425 | 430 | 439 | 441 | 450 | 461 | 462 | 457 | 452 | 447 | 448 | 437 | 449 | 466 | 477 | 490 | 0 | 460 |
|    | ** | 493 | 492 | 490 | 474 | 467 | 457 | 442 | 433 | 431 | 443 | 452 | 451 | 449 | 452 | 458 | 459 | 456 | 449 | 454 | 462 | 466 | 479 | 477 | 495 | 0 | 462 |
| 30 | *  | 509 | 491 | 471 | 466 | 452 | 439 | 426 | 424 | 424 | 433 | 444 | 447 | 458 | 457 | 452 | 452 | 453 | 455 | 452 | 452 | 462 | 476 | 491 | 506 | 0 | 458 |
| 31 | *  | 514 | 502 | 481 | 455 | 431 | 418 | 416 | 427 | 431 | 438 | 447 | 448 | 449 | 450 | 452 | 455 | 455 | 454 | 456 | 453 | 459 | 469 | 490 | 512 | 0 | 457 |
| 68 |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | *  | 493 | 494 | 484 | 469 | 453 | 438 | 427 | 426 | 429 | 435 | 440 | 443 | 448 | 453 | 456 | 458 | 459 | 459 | 460 | 461 | 463 | 471 | 479 | 488 |   | 458 |
|    | ** | 506 | 501 | 485 | 467 | 449 | 433 | 425 | 427 | 431 | 435 | 441 | 444 | 448 | 450 | 453 | 455 | 454 | 457 | 453 | 456 | 460 | 469 | 482 | 497 |   | 457 |
|    |    | 493 | 496 | 491 | 476 | 459 | 440 | 426 | 424 | 421 | 432 | 438 | 444 | 453 | 466 | 464 | 462 | 463 | 460 | 463 | 467 | 465 | 476 | 486 | 492 |   | 461 |

WATHEROO  
 DECEMBER 1953  
 VERTICAL INTENSITY  
 52000 PLUS TABULAR VALUES IN GAMMAS

2-1253-3-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 09 | 1  | *   | 149 | 137 | 122 | 109 | 110 | 113 | 119 | 129 | 134 | 136 | 139 | 141 | 142 | 141 | 140 | 140 | 140 | 139 | 139 | 138 | 140 | 143 | 145 | 148 | 0   | 135 |
|    | 2  | *   | 152 | 140 | 121 | 105 | 096 | 103 | 116 | 130 | 136 | 137 | 138 | 137 | 135 | 135 | 135 | 135 | 136 | 137 | 136 | 136 | 137 | 140 | 145 | 148 | 0   | 132 |
|    | 3  |     | 145 | 135 | 115 | 095 | 092 | 100 | 106 | 118 | 127 | 131 | 135 | 138 | 139 | 139 | 143 | 138 | 135 | 136 | 136 | 137 | 137 | 140 | 147 | 153 | 0   | 130 |
|    | 4  |     | 145 | 130 | 115 | 102 | 099 | 106 | 110 | 116 | 126 | 132 | 137 | 135 | 135 | 135 | 138 | 136 | 134 | 134 | 128 | 132 | 136 | 140 | 149 | 150 | 0   | 129 |
|    | 5  |     | 144 | 133 | 114 | 104 | 102 | 104 | 110 | 118 | 125 | 131 | 131 | 135 | 136 | 136 | 137 | 136 | 133 | 129 | 128 | 128 | 131 | 135 | 139 | 144 | 0   | 128 |
|    | 6  |     | 144 | 139 | 129 | 113 | 105 | 103 | 104 | 111 | 119 | 124 | 129 | 132 | 142 | 151 | 151 | 139 | 135 | 131 | 129 | 130 | 131 | 136 | 142 | 145 | 0   | 130 |
|    | 7  |     | 135 | 122 | 105 | 094 | 092 | 090 | 098 | 111 | 125 | 133 | 138 | 138 | 134 | 134 | 134 | 134 | 132 | 129 | 128 | 128 | 131 | 132 | 135 | 139 | 0   | 124 |
|    | 8  |     | 144 | 143 | 132 | 114 | 105 | 102 | 108 | 116 | 124 | 128 | 129 | 129 | 131 | 133 | 134 | 140 | 132 | 128 | 126 | 127 | 125 | 131 | 133 | 133 | 0   | 127 |
|    | 9  |     | 130 | 132 | 126 | 122 | 119 | 115 | 115 | 122 | 127 | 131 | 132 | 131 | 132 | 135 | 134 | 132 | 132 | 128 | 128 | 123 | 113 | 128 | 128 | 124 | 0   | 127 |
|    | 10 |     | 123 | 121 | 117 | 111 | 106 | 103 | 104 | 116 | 129 | 132 | 137 | 134 | 133 | 137 | 137 | 134 | 133 | 130 | 127 | 126 | 128 | 128 | 131 | 138 | 0   | 126 |
| 08 | 11 | **  | 138 | 136 | 127 | 114 | 098 | 093 | 098 | 101 | 109 | 127 | 140 | 147 | 162 | 182 | 159 | 142 | 143 | 133 | 134 | 134 | 121 | 126 | 133 | 129 | 1   | 130 |
|    | 12 | **  | 128 | 121 | 114 | 110 | 107 | 108 | 113 | 124 | 122 | 129 | 131 | 136 | 144 | 141 | 141 | 139 | 139 | 130 | 130 | 138 | 135 | 135 | 134 | 131 | 1   | 128 |
|    | 13 | **  | 129 | 131 | 123 | 112 | 113 | 115 | 113 | 120 | 126 | 135 | 136 | 136 | 142 | 147 | 143 | 139 | 138 | 138 | 140 | 134 | 136 | 137 | 137 | 135 | 0   | 131 |
|    | 14 |     | 131 | 127 | 119 | 115 | 119 | 118 | 116 | 122 | 132 | 138 | 137 | 136 | 136 | 138 | 138 | 136 | 138 | 137 | 137 | 131 | 132 | 136 | 136 | 133 | 0   | 131 |
|    | 15 |     | 129 | 125 | 119 | 117 | 117 | 112 | 115 | 119 | 128 | 129 | 130 | 133 | 137 | 138 | 136 | 134 | 133 | 136 | 134 | 129 | 129 | 133 | 130 | 126 | 0   | 128 |
|    | 16 |     | 128 | 128 | 124 |     | 128 | 126 | 127 | 133 | 140 | 146 | 146 | 145 | 149 | 150 | 150 | 150 | 150 | 149 | 151 | 151 | 150 | 149 | 148 | 143 | 0   | 142 |
|    | 17 |     | 140 | 142 | 144 | 140 | 129 | 115 | 117 | 126 | 135 | 144 | 148 | 149 | 149 | 150 | 152 | 149 | 146 | 146 | 147 | 148 | 150 | 147 | 143 | 147 | 1   | 142 |
|    | 18 |     | 143 | 135 | 123 | 118 | 114 | 117 | 125 | 137 | 146 | 151 | 151 | 151 | 151 | 152 | 156 | 154 | 148 | 142 | 146 | 150 | 151 | 155 | 154 | 152 | 0   | 143 |
|    | 19 |     | 149 | 144 | 136 | 128 | 121 | 118 | 119 | 126 | 135 | 141 | 145 | 147 | 151 | 151 | 151 | 153 | 147 | 146 | 148 | 148 | 152 | 158 | 154 | 150 | 0   | 142 |
|    | 20 |     | 145 | 140 | 134 | 124 | 119 | 120 | 122 | 131 | 139 | 144 | 147 | 148 | 150 | 155 | 156 | 152 | 151 | 146 | 141 | 142 | 146 | 152 | 154 | 154 | 0   | 142 |
| 07 | 21 |     | 145 | 138 | 124 | 121 | 127 | 132 | 135 | 143 | 147 | 147 | 146 | 147 | 147 | 148 | 150 | 148 | 148 | 146 | 146 | 146 | 147 | 154 | 154 | 154 | 0   | 143 |
|    | 22 | **  | 151 | 144 | 134 | 129 | 122 | 118 | 122 | 122 | 121 | 133 | 145 | 151 | 153 | 158 | 162 | 161 | 155 | 150 | 145 | 135 | 141 | 149 | 154 | 157 | 1   | 142 |
|    | 23 | *   | 161 | 161 | 153 | 144 | 135 | 130 | 133 | 140 | 144 | 144 | 148 | 151 | 152 | 155 | 156 | 155 | 149 | 149 | 137 | 144 | 148 | 152 | 154 | 156 | 0   | 148 |
|    | 24 |     | 164 | 164 | 155 | 149 | 137 | 124 | 118 | 132 | 141 | 146 | 155 | 157 | 153 | 154 | 155 | 155 | 153 | 151 | 148 | 147 | 149 | 152 | 149 | 147 | 0   | 148 |
|    | 25 |     | 153 | 154 | 156 | 151 | 143 | 138 | 136 | 135 | 137 | 140 | 147 | 153 | 160 | 162 | 160 | 155 | 153 | 152 | 153 | 151 | 150 | 153 | 146 | 153 | 0   | 150 |
|    | 26 |     | 160 | 167 | 166 | 153 | 136 | 126 | 129 | 141 | 146 | 147 | 147 | 149 | 149 | 153 | 155 | 155 | 157 | 154 | 153 | 150 | 146 | 142 | 143 | 158 | 0   | 149 |
|    | 27 |     | 169 | 167 | 161 | 149 | 130 | 121 | 125 | 133 | 143 | 148 | 154 | 154 | 153 | 155 | 157 | 156 | 160 | 154 | 151 | 151 | 148 | 144 | 147 | 153 | 0   | 149 |
|    | 28 |     | 164 | 169 | 161 | 150 | 137 | 128 | 125 | 131 | 143 | 152 | 157 | 156 | 159 | 166 | 162 | 156 | 154 | 149 | 150 | 145 | 154 | 161 | 162 | 165 | 0   | 152 |
|    | 29 | **  | 163 | 156 | 144 | 144 | 142 | 138 | 138 | 138 | 145 | 154 | 156 | 152 | 150 | 154 | 154 | 153 | 150 | 142 | 148 | 154 | 155 | 159 | 158 | 162 | 0   | 150 |
|    | 30 | *   | 159 | 145 | 137 | 140 | 139 | 139 | 138 | 139 | 145 | 153 | 159 | 159 | 163 | 159 | 155 | 154 | 154 | 154 | 150 | 151 | 156 | 163 | 166 | 163 | 0   | 152 |
| 31 | *  | 158 | 133 | 102 | 101 | 110 | 122 | 134 | 146 | 148 | 154 | 155 | 154 | 154 | 155 | 155 | 154 | 153 | 153 | 153 | 153 | 158 | 165 | 175 | 177 | 0   | 147 |     |
| 06 |    |     | 146 | 141 | 131 | 123 | 118 | 116 | 119 | 127 | 134 | 139 | 143 | 144 | 146 | 148 | 148 | 146 | 144 | 141 | 140 | 140 | 141 | 144 | 146 | 147 |     | 138 |
|    | *  |     | 156 | 143 | 127 | 120 | 118 | 121 | 128 | 137 | 141 | 145 | 148 | 148 | 149 | 149 | 148 | 148 | 146 | 146 | 143 | 144 | 148 | 153 | 157 | 158 |     | 143 |
|    | ** |     | 142 | 138 | 128 | 122 | 116 | 114 | 117 | 121 | 125 | 136 | 142 | 144 | 150 | 156 | 152 | 147 | 145 | 139 | 139 | 139 | 138 | 141 | 143 | 143 |     | 137 |

WATHEROO  
DECEMBER 1953  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1253-1-3

WATHEROO  
DECEMBER 1953  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-1253-2-3

WATHEROO  
DECEMBER 1953  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1253-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | *  | 012  | -024 | -005 | -037 | -002 | -029 | 023  | -023 |
| 2  | *  | 032  | -026 | 042  | 055  | -005 | 029  | -007 | 002  |
| 3  |    | 056  | 005  | -020 | -032 | -001 | -008 | 000  | -027 |
| 4  |    | 023  | -075 | 020  | 026  | -013 | 026  | -006 | 007  |
| 5  |    | 095  | 003  | 013  | 014  | -025 | -024 | 014  | -026 |
| 6  |    | 052  | 047  | 031  | -045 | -021 | 043  | 008  | -027 |
| 7  |    | 065  | 012  | 008  | 008  | 009  | -019 | 004  | -011 |
| 8  |    | 014  | -037 | 062  | 004  | 006  | -008 | 013  | 000  |
| 9  |    | 119  | -058 | 073  | 003  | -001 | 025  | -008 | 010  |
| 10 |    | 158  | -031 | 010  | 000  | -008 | 016  | 001  | 000  |
| 11 | ** | 128  | 144  | -073 | 057  | -013 | 112  | -005 | 052  |
| 12 | ** | 042  | -072 | 023  | 040  | -006 | 070  | -033 | -031 |
| 13 | ** | 063  | -036 | 026  | -026 | -001 | 052  | -012 | -017 |
| 14 |    | 070  | 006  | 011  | 010  | -004 | -002 | -008 | 004  |
| 15 |    | 027  | -011 | -004 | -025 | -012 | -027 | -002 | -036 |
| 16 |    | 082  | -070 | 014  | -010 | 022  | -018 | 023  | -003 |
| 17 |    | 020  | -020 | -008 | -041 | 061  | -003 | 023  | -008 |
| 18 |    | 040  | -018 | 020  | -039 | 019  | 002  | 027  | 005  |
| 19 |    | 002  | -005 | -001 | -026 | 008  | 023  | 021  | -005 |
| 20 |    | 054  | -095 | 052  | -064 | 014  | 019  | -016 | -001 |
| 21 |    | 078  | -032 | 053  | -008 | 017  | -008 | 015  | -003 |
| 22 | ** | 030  | 008  | 065  | -036 | 020  | 067  | -033 | 031  |
| 23 | *  | -009 | -105 | 028  | -081 | 047  | -028 | 028  | -013 |
| 24 |    | 020  | -090 | 052  | -074 | 045  | -012 | 030  | -003 |
| 25 |    | 077  | 019  | 029  | -028 | 055  | 004  | 017  | -002 |
| 26 |    | 003  | -078 | 085  | -047 | 092  | 009  | 021  | 059  |
| 27 |    | 007  | -125 | 073  | -059 | 077  | 023  | 022  | 016  |
| 28 |    | 032  | -020 | 006  | -024 | 054  | 036  | 013  | 048  |
| 29 | ** | -017 | -081 | -036 | -044 | 023  | 032  | -003 | -020 |
| 30 | *  | -046 | -138 | 043  | -059 | 023  | 049  | -026 | 001  |
| 31 | *  | 029  | -034 | -002 | 017  | -033 | 012  | -020 | -008 |
|    |    | 044  | -034 | 022  | -018 | 015  | 015  | 005  | -001 |
|    | *  | 005  | -066 | 019  | -022 | 007  | 006  | 001  | -008 |

|    |    | A1  | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|-----|------|-----|------|------|------|------|------|
| 1  | *  | 253 | -079 | 140 | 104  | 048  | 073  | 011  | 044  |
| 2  | *  | 259 | -089 | 131 | 109  | 042  | 101  | -008 | 027  |
| 3  |    | 283 | -112 | 144 | 082  | 021  | 067  | -010 | 009  |
| 4  |    | 241 | -108 | 128 | 077  | 030  | 047  | 017  | -014 |
| 5  |    | 228 | -036 | 101 | 110  | 019  | 050  | -011 | -019 |
| 6  |    | 204 | -108 | 121 | 120  | 015  | 000  | 001  | 022  |
| 7  |    | 199 | -068 | 150 | 080  | 006  | 092  | -008 | 014  |
| 8  |    | 198 | -040 | 078 | 111  | 021  | 068  | -029 | -005 |
| 9  |    | 137 | -069 | 111 | 038  | 039  | 041  | 014  | -020 |
| 10 |    | 245 | -091 | 128 | 086  | -008 | 063  | -011 | 005  |
| 11 | ** | 240 | -233 | 162 | 213  | -045 | -012 | 003  | 074  |
| 12 | ** | 233 | -126 | 124 | 074  | 004  | 034  | -033 | 015  |
| 13 | ** | 206 | -075 | 129 | 083  | -028 | 038  | -029 | -017 |
| 14 |    | 158 | -166 | 117 | 038  | 040  | 017  | 008  | 002  |
| 15 |    | 158 | -060 | 071 | 094  | 017  | 007  | 005  | -007 |
| 16 |    | 221 | -075 | 008 | 079  | -019 | 001  | 005  | 006  |
| 17 |    | 204 | -132 | 045 | 100  | -045 | 005  | -005 | -034 |
| 18 |    | 179 | -127 | 104 | 007  | 048  | 008  | -035 | 008  |
| 19 |    | 256 | -150 | 081 | 001  | 012  | -017 | -002 | -027 |
| 20 |    | 199 | -169 | 158 | 043  | 056  | 041  | -032 | -023 |
| 21 |    | 141 | -161 | 132 | -071 | 070  | 020  | 015  | -002 |
| 22 | ** | 226 | -135 | 119 | 183  | 032  | 031  | 008  | -031 |
| 23 | *  | 201 | -014 | 132 | 105  | 014  | 028  | -042 | -017 |
| 24 |    | 231 | -105 | 152 | 123  | -035 | 081  | -020 | -007 |
| 25 |    | 168 | -063 | 023 | 091  | -025 | 008  | -026 | 027  |
| 26 |    | 163 | -054 | 070 | 134  | 001  | 142  | -029 | 014  |
| 27 |    | 206 | -069 | 113 | 222  | -020 | 179  | -012 | 028  |
| 28 |    | 252 | 025  | 146 | 211  | -010 | 032  | -035 | -005 |
| 29 | ** | 209 | -028 | 112 | 077  | -009 | 011  | -008 | -022 |
| 30 | *  | 231 | -090 | 187 | 069  | 027  | 003  | 042  | -023 |
| 31 | *  | 235 | -118 | 228 | 051  | 088  | 073  | 020  | 012  |
|    |    | 212 | -095 | 117 | 092  | 014  | 044  | -007 | 002  |
|    | *  | 236 | -078 | 162 | 087  | 044  | 055  | 006  | 009  |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  | *  | -014 | -109 | 088 | -049 | 054  | 009  | 020  | 017  |
| 2  | *  | -002 | -109 | 105 | -071 | 084  | 035  | 014  | 034  |
| 3  |    | -014 | -163 | 130 | -060 | 072  | 010  | 020  | 025  |
| 4  |    | -003 | -128 | 118 | -057 | 064  | -001 | 014  | -006 |
| 5  |    | -015 | -110 | 111 | -033 | 061  | 005  | 013  | 012  |
| 6  |    | -004 | -133 | 134 | 031  | 036  | -005 | -009 | 029  |
| 7  |    | -055 | -149 | 126 | -066 | 054  | 029  | 002  | -001 |
| 8  |    | 007  | -083 | 099 | 017  | 053  | 042  | -020 | 026  |
| 9  |    | -036 | -031 | 049 | 021  | 023  | 025  | -008 | -002 |
| 10 |    | -056 | -097 | 082 | -025 | 030  | 019  | -018 | -011 |
| 11 | ** | -110 | -179 | 176 | 082  | -016 | 015  | 007  | 050  |
| 12 | ** | -059 | -121 | 061 | -025 | 013  | -016 | -004 | 015  |
| 13 | ** | -047 | -114 | 062 | -013 | 011  | 005  | -002 | 009  |
| 14 |    | -043 | -081 | 043 | -027 | 020  | 012  | -002 | -014 |
| 15 |    | -042 | -083 | 040 | -006 | 007  | 009  | -002 | 004  |
| 16 |    | -018 | -104 | 072 | 006  | -020 | 040  | -039 | -001 |
| 17 |    | -059 | -128 | 084 | -073 | 042  | -010 | -020 | 007  |
| 18 |    | -002 | -134 | 089 | -021 | 010  | 007  | -020 | 002  |
| 19 |    | -033 | -117 | 092 | -018 | 038  | -007 | -016 | -006 |
| 20 |    | -030 | -081 | 043 | -062 | 046  | -024 | 011  | -003 |
| 21 | ** | -022 | -146 | 108 | 047  | 034  | -014 | 013  | -023 |
| 22 | *  | 016  | -048 | 091 | 028  | 032  | 012  | -020 | 014  |
| 23 |    | 009  | -076 | 100 | 041  | -002 | 065  | -030 | 003  |
| 24 |    | 000  | -069 | 052 | 056  | -024 | 006  | -003 | 016  |
| 25 |    | 023  | -053 | 062 | 058  | 029  | 078  | -024 | 033  |
| 26 |    | 011  | -082 | 096 | 052  | 027  | 085  | -020 | 025  |
| 27 |    | 025  | -079 | 134 | 035  | 008  | 030  | -032 | 001  |
| 28 | ** | 023  | -050 | 077 | -019 | 012  | 002  | 011  | -007 |
| 29 | *  | -014 | -082 | 082 | -035 | 006  | -019 | 017  | -031 |
| 30 | *  | -042 | -170 | 103 | -145 | 101  | -055 | 051  | -013 |
| 31 |    | -021 | -103 | 088 | -011 | 029  | 013  | -005 | 007  |
|    | *  | -011 | -103 | 094 | -055 | 055  | -004 | 014  | 004  |



WATHEROOL  
JANUARY 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0154-1-3

|    |    | 1  | 2   | 3    | 4   | 5 | 6   | 7   | 8   | 9 | 10  | 11   | 12  | 13 | 14  | 15   | 16  | 17 | 18  | 19  | 20  | 21 | 22  | 23  | 24  |  |     |     |     |     |     |     |     |     |      |
|----|----|----|-----|------|-----|---|-----|-----|-----|---|-----|------|-----|----|-----|------|-----|----|-----|-----|-----|----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 62 | 1  |    | 870 | 869  | 871 |   | 877 | 884 | 882 |   | 876 | 876  | 880 |    | 880 | 880  | 885 |    | 889 | 888 | 891 |    | 899 | 900 | 900 |  | 899 | 903 | 907 | 0   | 886 |     |     |     |      |
|    | 2  | ** | 905 | 899  | 905 |   | 910 | 910 | 898 |   | 883 | 884  | 891 |    | 882 | 881  | 881 |    | 880 | 891 | 882 |    | 873 | 872 | 868 |  | 871 | 871 | 867 | 1   | 885 |     |     |     |      |
|    | 3  |    | 866 | 866  | 867 |   | 868 | 875 | 876 |   | 871 | 868  | 868 |    | 872 | 877  | 877 |    | 877 | 882 | 882 |    | 881 | 879 | 878 |  | 876 | 877 | 879 | 0   | 876 |     |     |     |      |
|    | 4  | *  | 881 | 879  | 873 |   | 872 | 874 | 878 |   | 880 | 880  | 880 |    | 881 | 879  | 881 |    | 880 | 880 | 879 |    | 882 | 882 | 882 |  | 883 | 886 | 891 | 0   | 882 |     |     |     |      |
|    | 5  |    | 880 | 870  | 863 |   | 869 | 875 | 882 |   | 884 | 885  | 886 |    | 884 | 884  | 887 |    | 888 | 889 | 885 |    | 886 | 890 | 892 |  | 895 | 891 | 897 | 925 | 907 | 910 | 0   | 888 |      |
|    | 6  |    | 890 | 871  | 867 |   | 865 | 866 | 870 |   | 872 | 865  | 876 |    | 878 | 880  | 879 |    | 876 | 880 | 884 |    | 886 | 895 | 880 |  | 880 | 881 | 881 |     | 884 | 887 | 885 | 0   | 878  |
|    | 7  |    | 871 | 864  | 858 |   | 868 | 877 | 890 |   | 888 | 889  | 888 |    | 885 | 882  | 883 |    | 886 | 888 | 886 |    | 879 | 873 | 873 |  | 874 | 876 | 886 |     | 884 | 884 | 879 | 0   | 880  |
|    | 8  |    | 869 | 864  | 868 |   | 870 | 873 | 881 |   | 885 | 893  | 881 |    | 874 | 877  | 882 |    | 880 | 884 | 886 |    | 884 | 882 | 883 |  | 885 | 893 | 890 |     | 889 | 895 | 894 | 0   | 882  |
|    | 9  |    | 899 | 894  | 884 |   | 881 | 886 | 894 |   | 892 | 883  | 884 |    | 881 | 883  | 883 |    | 878 | 883 | 883 |    | 881 | 883 | 885 |  | 886 | 885 | 887 |     | 891 | 894 | 890 | 0   | 886  |
|    | 10 | *  | 884 | 881  | 867 |   | 868 | 871 | 878 |   | 879 | 887  | 888 |    | 886 | 887  | 887 |    | 891 | 895 | 890 |    | 888 | 887 | 892 |  | 891 | 894 | 899 |     | 897 | 892 | 889 | 0   | 886  |
|    | 11 |    | 884 | 880  | 879 |   | 887 | 894 | 888 |   | 881 | 881  | 882 |    | 882 | 776* | 888 |    | 887 | 885 | 888 |    | 889 | 886 | 894 |  | 894 | 890 | 884 |     | 887 | 890 | 889 | 0   | 882  |
|    | 12 |    | 885 | 879  | 877 |   | 890 | 904 | 903 |   | 900 | 898  | 903 |    | 903 | 892  | 887 |    | 892 | 889 | 883 |    | 893 | 879 | 880 |  | 879 | 878 | 875 |     | 881 | 885 | 881 | 0   | 888  |
|    | 13 |    | 872 | 876  | 885 |   | 890 | 894 | 887 |   | 869 | 864  | 869 |    | 872 | 866  | 870 |    | 878 | 882 | 881 |    | 876 | 878 | 883 |  | 885 | 883 | 882 |     | 882 | 883 | 883 | 0   | 879  |
|    | 14 |    | 889 | 894  | 894 |   | 889 | 885 | 883 |   | 879 | 877  | 878 |    | 884 | 888  | 888 |    | 891 | 891 | 890 |    | 894 | 897 | 901 |  | 916 | 906 | 899 |     | 899 | 894 | 887 | 0   | 891  |
|    | 15 |    | 879 | 885  | 894 |   | 903 | 911 | 910 |   | 891 | 875  | 877 |    | 885 | 885  | 881 |    | 879 | 881 | 887 |    | 882 | 884 | 884 |  | 886 | 885 | 885 |     | 889 | 889 | 884 | 0   | 887  |
|    | 16 |    | 877 | 873  | 870 |   | 878 | 880 | 880 |   | 876 | 877  | 880 |    | 877 | 884  | 882 |    | 879 | 885 | 887 |    | 890 | 890 | 892 |  | 902 | 889 | 883 |     | 882 | 885 | 889 | 0   | 883  |
|    | 17 |    | 888 | 885  | 884 |   | 879 | 885 | 893 |   | 891 | 887  | 885 |    | 881 | 880  | 878 |    | 875 | 879 | 883 |    | 889 | 889 | 903 |  | 901 | 888 | 888 |     | 892 | 893 | 890 | 0   | 887  |
|    | 18 |    |     |      |     |   |     |     |     |   |     | 877* | 884 |    | 886 | 883  | 886 |    | 882 | 872 | 880 |    | 876 | 882 | 890 |  | 894 | 895 | 900 |     | 896 | 881 | 886 |     | 885* |
|    | 19 | ** | 870 | 866  | 871 |   | 871 | 878 | 875 |   | 869 | 868  | 860 |    | 851 | 850  | 862 |    | 867 | 876 | 872 |    | 870 | 873 | 891 |  | 879 | 873 | 874 |     | 862 | 864 | 858 | 1   | 869  |
|    | 20 | ** | 851 | 840* | 827 |   | 841 | 842 | 848 |   | 848 | 851  | 853 |    | 849 | 852  | 862 |    | 870 | 865 | 868 |    | 875 | 875 | 878 |  | 878 | 876 | 876 |     | 875 | 875 | 876 | 0   | 860  |
|    | 21 | ** | 863 | 854  | 860 |   | 868 | 873 | 876 |   | 882 | 876  | 869 |    | 868 | 868  | 870 |    | 870 | 872 | 876 |    | 887 | 880 | 886 |  | 889 | 881 | 876 |     | 876 | 873 | 867 | 0   | 873  |
|    | 22 |    | 862 | 861  | 856 |   | 856 | 854 | 873 |   | 875 | 872  | 875 |    | 870 | 877  | 878 |    | 878 | 875 | 879 |    | 873 | 883 | 883 |  | 881 | 886 | 884 |     | 883 | 883 | 881 | 0   | 874  |
|    | 23 | ** | 873 | 867  | 846 |   | 839 | 851 | 856 |   | 860 | 856  | 857 |    | 863 | 865  | 875 |    | 872 | 875 | 883 |    | 877 | 887 | 883 |  | 878 | 876 | 875 |     | 874 | 880 | 880 | 0   | 869  |
|    | 24 |    | 873 | 870  | 868 |   | 866 | 870 | 877 |   | 874 | 873  | 876 |    | 878 | 879  | 877 |    | 876 | 876 | 879 |    | 874 | 875 | 878 |  | 882 | 878 | 882 |     | 885 | 890 | 894 | 0   | 877  |
|    | 25 |    | 892 | 886  | 876 |   | 874 | 874 | 877 |   | 882 | 882  | 883 |    | 884 | 883  | 882 |    | 885 | 887 | 886 |    | 883 | 884 | 886 |  | 882 | 881 | 882 |     | 884 | 890 | 896 | 0   | 883  |
|    | 26 | *  | 894 | 890  | 888 |   | 889 | 888 | 882 |   | 881 | 874  | 871 |    | 871 | 875  | 879 |    | 880 | 880 | 880 |    | 883 | 888 | 881 |  | 880 | 881 | 883 |     | 886 | 891 | 892 | 0   | 883  |
|    | 27 |    | 890 | 888  | 886 |   | 881 | 881 | 885 |   | 881 | 885  | 891 |    | 891 | 891  | 888 |    | 883 | 881 | 878 |    | 876 | 872 | 877 |  | 885 | 888 | 889 |     | 889 | 890 | 886 | 0   | 885  |
|    | 28 | *  | 882 | 883  | 884 |   | 888 | 889 | 884 |   | 881 | 881  | 881 |    | 882 | 884  | 889 |    | 889 | 888 | 886 |    | 887 | 893 | 892 |  | 891 | 887 | 887 |     | 889 | 892 | 895 | 0   | 887  |
|    | 29 | *  | 886 | 881  | 884 |   | 885 | 881 | 883 |   | 883 | 881  | 881 |    | 884 | 886  | 885 |    | 887 | 889 | 892 |    | 892 | 894 | 895 |  | 891 | 891 | 889 |     | 892 | 895 | 891 | 0   | 887  |
|    | 30 |    | 884 | 882  | 882 |   | 880 | 883 | 880 |   | 874 | 869  | 870 |    | 876 | 879  | 882 |    | 882 | 882 | 885 |    | 899 | 899 | 896 |  | 896 | 893 | 892 |     | 890 | 892 | 892 | 0   | 885  |
|    | 31 |    | 891 | 895  | 902 |   | 906 | 902 | 899 |   | 896 | 888  | 883 |    | 881 | 878  | 873 |    | 877 | 879 | 882 |    | 891 | 908 | 887 |  | 890 | 885 | 887 |     | 889 | 890 | 889 | 0   | 890  |
|    |    | *  | 880 | 876  | 875 |   | 877 | 880 | 882 |   | 879 | 877  | 878 |    | 878 | 875  | 880 |    | 881 | 882 | 883 |    | 883 | 885 | 886 |  | 887 | 885 | 886 |     | 887 | 888 | 887 |     | 882  |
|    |    | ** | 885 | 883  | 879 |   | 880 | 881 | 881 |   | 881 | 881  | 880 |    | 881 | 882  | 884 |    | 885 | 886 | 885 |    | 886 | 889 | 888 |  | 887 | 888 | 890 |     | 892 | 893 | 892 |     | 885  |
|    |    | ** | 872 | 865  | 862 |   | 866 | 871 | 871 |   | 868 | 867  | 866 |    | 863 | 863  | 870 |    | 872 | 876 | 876 |    | 876 | 879 | 882 |  | 879 | 876 | 874 |     | 872 | 873 | 870 |     | 871  |

WATHEROO  
JANUARY 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|   |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |      |     |
|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| S | 1  |     | 511 | 496 | 469 |     | 429 | 420 | 418 |     | 417 | 418 | 422 |     | 439 | 445 | 446 |     | 448 | 448 | 449 |     | 449 | 454 | 457 | 459 | 460 | 467 | 474 | 495 | 532 | 0   | 455  |     |
|   | 2  | **  | 565 | 532 | 481 |     | 459 | 440 | 430 |     | 421 | 419 | 428 |     | 427 | 443 | 460 |     | 460 | 470 | 520 |     | 484 | 463 | 470 | 464 | 456 | 462 | 477 | 494 | 500 | 1   | 468  |     |
|   | 3  |     | 503 | 500 | 489 |     | 467 | 444 | 419 |     | 407 | 418 | 428 |     | 438 | 443 | 447 |     | 449 | 451 | 460 |     | 457 | 453 | 453 | 455 | 459 | 462 | 470 | 480 | 489 | 0   | 456  |     |
|   | 4  | *   | 500 | 504 | 483 |     | 458 | 444 | 440 |     | 438 | 439 | 445 |     | 445 | 440 | 440 |     | 445 | 447 | 449 |     | 451 | 452 | 453 | 455 | 458 | 462 | 469 | 483 | 491 | 0   | 458  |     |
|   | 5  |     | 501 | 495 | 482 |     | 468 | 452 | 434 |     | 422 | 427 | 437 |     | 442 | 443 | 447 |     | 445 | 447 | 450 |     | 452 | 459 | 456 | 459 | 462 | 451 | 438 | 480 | 497 | 0   | 456  |     |
|   | 6  |     | 511 | 513 | 485 |     | 452 | 427 | 419 |     | 423 | 436 | 438 |     | 438 | 436 | 436 |     | 439 | 446 | 456 |     | 464 | 474 | 471 | 468 | 465 | 465 | 476 | 482 | 497 | 0   | 459  |     |
|   | 7  |     | 502 | 502 | 488 |     | 458 | 422 | 413 |     | 418 | 434 | 448 |     | 449 | 449 | 446 |     | 444 | 444 | 449 |     | 468 | 470 | 476 | 474 | 469 | 453 | 468 | 480 | 484 | 0   | 459  |     |
|   | 8  |     | 491 | 488 | 478 |     | 462 | 446 | 428 |     | 418 | 417 | 417 |     | 431 | 440 | 444 |     | 444 | 448 | 451 |     | 454 | 458 | 459 | 464 | 470 | 473 | 476 | 491 | 498 | 0   | 456  |     |
|   | 9  |     | 506 | 520 | 506 |     | 478 | 440 | 415 |     | 397 | 402 | 421 |     | 439 | 445 | 444 |     | 452 | 459 | 451 |     | 453 | 455 | 458 | 462 | 462 | 459 | 464 | 470 | 475 | 0   | 456  |     |
|   | 10 | *   | 483 | 492 | 484 |     | 463 | 441 | 423 |     | 413 | 415 | 431 |     | 440 | 441 | 444 |     | 458 | 466 | 458 |     | 460 | 462 | 463 | 469 | 469 | 467 | 469 | 470 | 480 | 0   | 457  |     |
|   | 11 |     | 501 | 511 | 499 |     | 486 | 470 | 426 |     | 400 | 406 | 418 |     | 421 | 430 | 436 |     | 440 | 445 | 447 |     | 451 | 457 | 457 | 453 | 460 | 466 | 456 | 469 | 489 | 480 | 0    | 454 |
|   | 12 |     | 490 | 481 | 475 |     | 465 | 450 | 439 |     | 438 | 439 | 438 |     | 427 | 427 | 435 |     | 440 | 441 | 449 |     | 495 | 491 | 485 | 491 | 483 | 477 | 479 | 489 | 494 | 0   | 463  |     |
|   | 13 |     | 507 | 501 | 479 |     | 469 | 461 | 439 |     | 424 | 424 | 428 |     | 434 | 439 | 439 |     | 438 | 440 | 446 |     | 449 | 450 | 453 | 458 | 458 | 461 | 462 | 476 | 490 | 0   | 455  |     |
|   | 14 |     | 499 | 495 | 479 |     | 460 | 445 | 437 |     | 426 | 425 | 429 |     | 434 | 439 | 444 |     | 441 | 444 | 448 |     | 450 | 457 | 460 | 466 | 476 | 476 | 480 | 491 | 504 | 0   | 459  |     |
|   | 15 |     | 505 | 488 | 465 |     | 454 | 441 | 427 |     | 422 | 422 | 428 |     | 438 | 438 | 438 |     | 443 | 450 | 447 |     | 449 | 453 | 456 | 459 | 463 | 458 | 473 | 489 | 480 | 0   | 454  |     |
|   | 16 |     | 483 | 473 | 460 |     | 449 | 429 | 420 |     | 418 | 424 | 439 |     | 445 | 444 | 443 |     | 451 | 461 | 455 |     | 453 | 454 | 454 | 451 | 459 | 468 | 481 | 490 | 521 | 0   | 455  |     |
|   | 17 |     | 521 | 501 | 481 |     | 451 | 429 | 419 |     | 419 | 423 | 430 |     | 438 | 444 | 444 |     | 449 | 449 | 449 |     | 453 | 459 | 452 | 468 | 471 | 462 | 474 | 491 | 501 | 0   | 457  |     |
|   | 18 |     |     |     |     |     |     |     |     |     |     | 444 | 447 |     | 449 | 450 | 446 |     | 453 | 459 | 460 |     | 466 | 457 | 460 | 458 | 460 | 471 | 477 | 457 | 491 |     | 459* |     |
|   | 19 | **  | 508 | 460 | 433 |     | 407 | 407 | 404 |     | 413 | 428 | 440 |     | 450 | 454 | 460 |     | 471 | 469 | 454 |     | 452 | 463 | 482 | 464 | 453 | 449 | 450 | 481 | 488 | 1   | 452  |     |
|   | 20 | **  | 521 | 512 | 503 |     | 481 | 450 | 430 |     | 422 | 418 | 423 |     | 432 | 449 | 468 |     | 454 | 456 | 469 |     | 481 | 467 | 474 | 454 | 450 | 451 | 469 | 480 | 482 | 0   | 462  |     |
|   | 21 | **  | 493 | 498 | 487 |     | 481 | 469 | 440 |     | 427 | 422 | 429 |     | 440 | 443 | 450 |     | 461 | 460 | 460 |     | 459 | 460 | 442 | 440 | 457 | 450 | 459 | 470 | 481 | 0   | 457  |     |
|   | 22 |     | 496 | 512 | 484 |     | 456 | 433 | 420 |     | 412 | 420 | 432 |     | 451 | 450 | 449 |     | 451 | 456 | 480 |     | 461 | 452 | 460 | 459 | 445 | 459 | 471 | 482 | 497 | 0   | 458  |     |
|   | 23 | **  | 506 | 518 | 505 |     | 469 | 434 | 415 |     | 398 | 403 | 427 |     | 434 | 447 | 459 |     | 450 | 457 | 458 |     | 463 | 456 | 456 | 458 | 448 | 448 | 460 | 473 | 490 | 0   | 456  |     |
|   | 24 |     | 503 | 502 | 492 |     | 475 | 450 | 420 |     | 401 | 410 | 427 |     | 436 | 446 | 450 |     | 451 | 452 | 454 |     | 456 | 452 | 450 | 449 | 453 | 460 | 467 | 476 | 485 | 0   | 455  |     |
|   | 25 |     | 499 | 508 | 502 |     | 472 | 441 | 414 |     | 398 | 398 | 408 |     | 427 | 440 | 445 |     | 449 | 453 | 451 |     | 452 | 459 | 449 | 463 | 460 | 463 | 470 | 474 | 487 | 0   | 453  |     |
|   | 26 | *   | 493 | 492 | 486 |     | 471 | 450 | 429 |     | 416 | 413 | 425 |     | 439 | 443 | 449 |     | 450 | 449 | 450 |     | 452 | 455 | 463 | 463 | 464 | 470 | 473 | 481 | 489 | 0   | 457  |     |
|   | 27 |     | 494 | 501 | 491 |     | 480 | 462 | 439 |     | 426 | 419 | 428 |     | 432 | 440 | 447 |     | 459 | 459 | 459 |     | 460 | 460 | 458 | 458 | 449 | 460 | 466 | 472 | 481 | 0   | 458  |     |
|   | 28 | *   | 482 | 487 | 472 |     | 459 | 446 | 430 |     | 419 | 420 | 421 |     | 428 | 440 | 445 |     | 441 | 447 | 449 |     | 451 | 453 | 457 | 458 | 459 | 460 | 464 | 477 | 488 | 0   | 452  |     |
|   | 29 | *   | 490 | 488 | 481 |     | 473 | 460 | 442 |     | 428 | 421 | 424 |     | 430 | 436 | 440 |     | 442 | 444 | 449 |     | 453 | 450 | 455 | 456 | 458 | 459 | 464 | 478 | 486 | 0   | 454  |     |
|   | 30 |     | 488 | 488 | 478 |     | 454 | 430 | 424 |     | 420 | 422 | 428 |     | 434 | 441 | 447 |     | 451 | 455 | 454 |     | 451 | 460 | 461 | 465 | 468 | 465 | 460 | 478 | 495 | 0   | 455  |     |
|   | 31 |     | 510 | 502 | 473 |     | 451 | 431 | 419 |     | 415 | 416 | 420 |     | 429 | 440 | 441 |     | 446 | 450 | 454 |     | 458 | 460 | 470 | 466 | 462 | 470 | 472 | 480 | 482 | 0   | 455  |     |
|   | *  | 502 | 499 | 482 |     | 462 | 442 | 426 |     | 417 | 421 | 429 |     | 437 | 442 | 446 |     | 449 | 452 | 456 |     | 458 | 459 | 460 | 461 | 461 | 462 | 468 | 480 | 491 |     | 457 |      |     |
|   | *  | 490 | 493 | 481 |     | 465 | 448 | 433 |     | 423 | 422 | 429 |     | 436 | 440 | 444 |     | 447 | 451 | 451 |     | 453 | 454 | 458 | 460 | 462 | 464 | 468 | 478 | 487 |     | 456 |      |     |
|   | ** | 519 | 504 | 482 |     | 459 | 440 | 424 |     | 416 | 418 | 429 |     | 437 | 447 | 459 |     | 459 | 462 | 472 |     | 468 | 462 | 465 | 456 | 453 | 452 | 463 | 480 | 488 |     | 459 |      |     |

WATHEROO  
JANUARY 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0154-3-3

|    |    | 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  |     | 160 | 139  | 118 |     | 109 | 117 | 129 |     | 143 | 149  | 154 |     | 163 | 161 | 158 |     | 157 | 156 | 155 |     | 155 | 157 | 155 | 152 | 154 | 156 | 161 | 167 | 176 | 0   | 150  |     |
|    | 2  | **  | 172 | 134  | 100 |     | 102 | 107 | 122 |     | 132 | 139  | 144 |     | 149 | 160 | 169 |     | 168 | 164 | 185 |     | 161 | 145 | 151 | 150 | 148 | 153 | 162 | 170 | 166 | 1   | 148  |     |
|    | 3  |     | 161 | 149  | 137 |     | 125 | 115 | 119 |     | 128 | 142  | 149 |     | 157 | 160 | 161 |     | 161 | 160 | 161 |     | 157 | 154 | 153 | 154 | 155 | 158 | 162 | 167 | 169 | 0   | 151  |     |
|    | 4  | *   | 170 | 162  | 144 |     | 134 | 130 | 136 |     | 143 | 147  | 151 |     | 152 | 153 | 155 |     | 156 | 156 | 157 |     | 156 | 155 | 155 | 153 | 154 | 157 | 162 | 170 | 174 | 0   | 153  |     |
|    | 5  |     | 171 | 156  | 143 |     | 131 | 122 | 119 |     | 126 | 139  | 150 |     | 154 | 156 | 157 |     | 158 | 159 | 160 |     | 157 | 154 | 150 | 151 | 154 | 147 | 133 | 160 | 165 | 0   | 149  |     |
|    | 6  |     | 166 | 159  | 134 |     | 115 | 108 | 116 |     | 134 | 150  | 150 |     | 149 | 153 | 157 |     | 163 | 164 | 166 |     | 165 | 164 | 160 | 155 | 154 | 155 | 159 | 162 | 168 | 0   | 151  |     |
|    | 7  |     | 090 | 162  | 138 |     | 112 | 107 | 119 |     | 139 | 153  | 156 |     | 155 | 153 | 153 |     | 155 | 155 | 159 |     | 167 | 168 | 164 | 159 | 153 | 143 | 153 | 161 | 164 | 0   | 147  |     |
|    | 8  |     | 168 | 161  | 147 |     | 123 | 113 | 113 |     | 124 | 133  | 144 |     | 161 | 163 | 162 |     | 162 | 165 | 164 |     | 164 | 163 | 160 | 160 | 159 | 156 | 155 | 157 | 162 | 164 | 0    | 152 |
|    | 9  |     | 162 | 155  | 127 |     | 096 | 080 | 084 |     | 100 | 130  | 144 |     | 151 | 151 | 151 |     | 158 | 160 | 157 |     | 156 | 156 | 153 | 153 | 150 | 146 | 149 | 153 | 157 | 0   | 141  |     |
|    | 10 | *   | 162 | 160  | 150 |     | 138 | 128 | 125 |     | 123 | 136  | 148 |     | 154 | 151 | 150 |     | 156 | 158 | 155 |     | 156 | 157 | 154 | 154 | 151 | 146 | 146 | 149 | 156 | 0   | 148  |     |
| 64 | 11 |     | 159 | 149  | 126 |     | 114 | 101 | 092 |     | 105 | 123  | 132 |     | 137 | 144 | 143 |     | 148 | 152 | 153 |     | 154 | 156 | 152 | 147 | 150 | 151 | 145 | 150 | 157 | 0   | 139  |     |
|    | 12 |     | 158 | 151  | 139 |     | 122 | 115 | 116 |     | 125 | 136  | 138 |     | 134 | 141 | 147 |     | 148 | 149 | 156 |     | 173 | 166 | 159 | 157 | 150 | 146 | 145 | 148 | 152 | 0   | 145  |     |
|    | 13 |     | 148 | 134  | 123 |     | 123 | 119 | 113 |     | 121 | 134  | 143 |     | 144 | 151 | 148 |     | 146 | 147 | 150 |     | 152 | 151 | 150 | 151 | 151 | 152 | 152 | 156 | 160 | 0   | 142  |     |
|    | 14 |     | 155 | 144  | 138 |     | 137 | 137 | 136 |     | 139 | 146  | 150 |     | 149 | 148 | 148 |     | 145 | 145 | 147 |     | 148 | 150 | 149 | 146 | 151 | 151 | 154 | 158 | 158 | 0   | 147  |     |
|    | 15 |     | 144 | 122  | 108 |     | 109 | 110 | 108 |     | 114 | 125  | 140 |     | 145 | 145 | 147 |     | 149 | 152 | 147 |     | 149 | 149 | 148 | 149 | 151 | 148 | 156 | 162 | 155 | 0   | 139  |     |
|    | 16 |     | 153 | 144  | 131 |     | 121 | 114 | 116 |     | 127 | 142  | 152 |     | 157 | 152 | 150 |     | 155 | 155 | 148 |     | 146 | 145 | 145 | 140 | 147 | 153 | 158 | 161 | 162 | 0   | 145  |     |
|    | 17 |     | 155 | 140  | 119 |     | 106 | 103 | 106 |     | 120 | 133  | 141 |     | 147 | 150 | 149 |     | 152 | 150 | 146 |     | 145 | 145 | 139 | 145 | 147 | 145 | 152 | 156 | 159 | 0   | 140  |     |
|    | 18 |     |     |      |     |     |     |     |     |     |     | 136* | 141 |     | 144 | 147 | 144 |     | 151 | 158 | 153 |     | 153 | 145 | 143 | 140 | 141 | 147 | 154 | 149 | 162 |     | 148* |     |
|    | 19 | **  | 166 | 134  | 118 |     | 110 | 113 | 119 |     | 135 | 150  | 160 |     | 169 | 168 | 164 |     | 167 | 158 | 152 |     | 150 | 154 | 153 | 146 | 142 | 138 | 143 | 159 | 163 | 1   | 147  |     |
|    | 20 | **  | 172 | 157* | 133 |     | 111 | 094 | 087 |     | 095 | 109  | 127 |     | 138 | 145 | 150 |     | 138 | 141 | 144 |     | 143 | 133 | 133 | 119 | 119 | 124 | 134 | 138 | 141 | 0   | 130  |     |
|    | 21 | **  | 152 | 151  | 131 |     | 112 | 101 | 095 |     | 101 | 110  | 126 |     | 132 | 134 | 137 |     | 145 | 143 | 139 |     | 132 | 133 | 124 | 120 | 129 | 128 | 134 | 143 | 146 | 0   | 129  |     |
|    | 22 |     | 152 | 152  | 127 |     | 104 | 095 | 094 |     | 099 | 115  | 125 |     | 138 | 135 | 134 |     | 135 | 138 | 148 |     | 138 | 128 | 127 | 127 | 120 | 126 | 134 | 140 | 146 | 0   | 128  |     |
|    | 23 | **  | 149 | 147  | 133 |     | 112 | 100 | 103 |     | 107 | 121  | 141 |     | 141 | 140 | 141 |     | 139 | 143 | 138 |     | 142 | 132 | 133 | 131 | 126 | 128 | 135 | 142 | 148 | 0   | 132  |     |
|    | 24 |     | 152 | 146  | 130 |     | 114 | 105 | 096 |     | 098 | 113  | 126 |     | 131 | 137 | 137 |     | 137 | 139 | 137 |     | 138 | 135 | 132 | 128 | 129 | 131 | 132 | 135 | 138 | 0   | 129  |     |
|    | 25 |     | 140 | 134  | 120 |     | 103 | 092 | 085 |     | 090 | 104  | 122 |     | 132 | 136 | 134 |     | 134 | 137 | 135 |     | 137 | 138 | 130 | 134 | 131 | 130 | 131 | 131 | 133 | 133 | 0    | 125 |
|    | 26 | *   | 130 | 131  | 125 |     | 116 | 109 | 107 |     | 108 | 113  | 123 |     | 129 | 131 | 131 |     | 131 | 130 | 132 |     | 133 | 131 | 135 | 133 | 131 | 130 | 131 | 132 | 129 | 0   | 126  |     |
|    | 27 |     | 128 | 125  | 114 |     | 104 | 096 | 089 |     | 093 | 103  | 113 |     | 120 | 126 | 127 |     | 135 | 135 | 134 |     | 135 | 136 | 132 | 128 | 122 | 127 | 129 | 130 | 131 | 0   | 121  |     |
|    | 28 | *   | 129 | 125  | 112 |     | 095 | 092 | 095 |     | 102 | 113  | 120 |     | 125 | 130 | 130 |     | 127 | 130 | 131 |     | 132 | 130 | 129 | 129 | 129 | 129 | 129 | 132 | 133 | 0   | 122  |     |
|    | 29 | *   | 130 | 124  | 110 |     | 104 | 104 | 101 |     | 104 | 111  | 122 |     | 128 | 129 | 129 |     | 129 | 129 | 129 |     | 131 | 128 | 128 | 128 | 127 | 128 | 129 | 133 | 136 | 0   | 123  |     |
|    | 30 |     | 135 | 128  | 111 |     | 096 | 096 | 100 |     | 109 | 119  | 128 |     | 130 | 131 | 131 |     | 132 | 133 | 130 |     | 124 | 126 | 129 | 128 | 128 | 128 | 127 | 133 | 137 | 0   | 124  |     |
| 31 |    | 135 | 119 | 099  |     | 092 | 092 | 095 |     | 102 | 113 | 124  |     | 131 | 135 | 135 |     | 135 | 134 | 132 |     | 130 | 123 | 132 | 128 | 128 | 130 | 133 | 133 | 130 | 0   | 123 |      |     |
|    |    | *   | 151 | 143  | 126 |     | 113 | 107 | 108 |     | 116 | 129  | 138 |     | 143 | 146 | 146 |     | 147 | 148 | 148 |     | 148 | 145 | 144 | 142 | 141 | 141 | 145 | 150 | 153 |     | 138  |     |
|    |    | **  | 144 | 140  | 128 |     | 117 | 113 | 113 |     | 116 | 124  | 133 |     | 138 | 139 | 139 |     | 140 | 141 | 141 |     | 142 | 140 | 140 | 139 | 138 | 138 | 139 | 143 | 146 |     | 135  |     |
|    |    |     | 162 | 145  | 123 |     | 109 | 103 | 105 |     | 114 | 126  | 140 |     | 146 | 149 | 152 |     | 151 | 150 | 152 |     | 146 | 139 | 139 | 133 | 133 | 134 | 142 | 150 | 153 |     | 137  |     |

| WATHEROO 2-0154-1-3<br>JANUARY 1954<br>HORIZONTAL INTENSITY<br>FOURIER COEFFICIENTS IN TENTHS OF GAMMAS |    |     |      |      |      |      |      |      |      | WATHEROO 2-0154-2-3<br>JANUARY 1954<br>DECLINATION WEST<br>FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES |     |      |     |      |      |      |      |      |      | WATHEROO 2-0154-3-3<br>JANUARY 1954<br>VERTICAL INTENSITY<br>FOURIER COEFFICIENTS IN TENTHS OF GAMMAS |      |     |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------|----|-----|------|------|------|------|------|------|------|----------------------------------------------------------------------------------------------------------|-----|------|-----|------|------|------|------|------|------|-------------------------------------------------------------------------------------------------------|------|-----|------|------|------|------|------|------|------|------|
|                                                                                                         |    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4   |                                                                                                          |     | A1   | B1  | A2   | B2   | A3   | B3   | A4   | B4   |                                                                                                       |      | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4   |      |
| S <sub>9</sub>                                                                                          | 1  | 017 | -106 | -002 | -052 | -025 | -053 | 012  | -033 | 1                                                                                                        | 251 | -180 | 244 | -009 | 105  | 047  | 068  | 006  | 1    | -052                                                                                                  | -122 | 091 | -122 | 094  | -024 | 045  | -008 |      |      |      |
|                                                                                                         | 2  | **  | 031  | 129  | 002  | 100  | -027 | 033  | -015 | 018                                                                                                      | 2   | **   | 224 | -189 | 275  | 195  | 129  | 026  | 024  | 073                                                                                                   | 2    | **  | -098 | -182 | 159  | -090 | 084  | -076 | 056  | 012  |
|                                                                                                         | 3  |     | -006 | -057 | 015  | -012 | -006 | -048 | 004  | -039                                                                                                     | 3   |      | 221 | -119 | 194  | 095  | 019  | 084  | -037 | 013                                                                                                   | 3    |     | -030 | -138 | 128  | -069 | 053  | 011  | 000  | 011  |
|                                                                                                         | 4  | *   | 026  | -047 | 016  | -051 | 013  | -029 | 003  | -011                                                                                                     | 4   | *    | 220 | -042 | 128  | 035  | 069  | 050  | 000  | 038                                                                                                   | 4    | *   | 028  | -083 | 092  | -039 | 064  | -004 | 022  | 013  |
|                                                                                                         | 5  |     | 022  | -101 | 019  | -106 | 018  | -079 | 017  | -043                                                                                                     | 5   |      | 198 | -057 | 137  | 095  | 052  | 100  | 031  | 003                                                                                                   | 5    |     | -028 | -098 | 124  | -005 | 068  | 051  | 017  | 031  |
|                                                                                                         | 6  |     | -005 | -083 | 030  | -014 | 042  | -008 | 008  | -027                                                                                                     | 6   |      | 243 | -162 | 136  | 060  | 125  | 102  | -008 | 050                                                                                                   | 6    |     | -042 | -163 | 114  | -043 | 104  | 006  | 020  | 050  |
|                                                                                                         | 7  |     | -061 | 010  | -005 | -060 | 004  | -078 | 008  | -001                                                                                                     | 7   |      | 179 | -152 | 131  | 043  | 102  | 160  | -018 | 031                                                                                                   | 7    |     | -105 | -147 | 020  | -061 | 080  | 017  | -030 | 009  |
|                                                                                                         | 8  |     | -008 | -055 | -022 | -061 | 013  | -067 | 013  | 000                                                                                                      | 8   |      | 249 | -159 | 140  | 052  | -002 | 041  | 003  | -017                                                                                                  | 8    |     | -036 | -166 | 142  | -024 | 061  | 060  | -002 | 021  |
|                                                                                                         | 9  |     | 054  | 011  | 005  | -014 | 017  | -012 | 030  | 000                                                                                                      | 9   |      | 239 | -127 | 209  | 154  | -023 | 165  | -047 | 041                                                                                                   | 9    |     | -064 | -233 | 183  | -065 | 113  | 079  | -006 | 070  |
|                                                                                                         | 10 | *   | -027 | -084 | 018  | -062 | 012  | -027 | 006  | 019                                                                                                      | 10  | *    | 162 | -163 | 134  | 091  | -014 | 081  | -029 | 034                                                                                                   | 10   | *   | -013 | -091 | 086  | 017  | 040  | 062  | -010 | 024  |
|                                                                                                         | 11 |     | 086  | -065 | -080 | 071  | 020  | -092 | 020  | 068                                                                                                      | 11  |      | 292 | -091 | 136  | 182  | -037 | 116  | -039 | 001                                                                                                   | 11   |     | -011 | -208 | 131  | -020 | 072  | 052  | -007 | 032  |
|                                                                                                         | 12 |     | -056 | 095  | -026 | -014 | 013  | -031 | 002  | -024                                                                                                     | 12  |      | 227 | -215 | -020 | 065  | 082  | 043  | 005  | -021                                                                                                  | 12   |     | -020 | -167 | 051  | 026  | 084  | 037  | 007  | 022  |
|                                                                                                         | 13 |     | 051  | -024 | -024 | 045  | -051 | -018 | -008 | -024                                                                                                     | 13  |      | 259 | -054 | 122  | 086  | 023  | 070  | 015  | 000                                                                                                   | 13   |     | -023 | -143 | 074  | -064 | 045  | 011  | -002 | -013 |
|                                                                                                         | 14 |     | 033  | -101 | -017 | 006  | -038 | 037  | 005  | 008                                                                                                      | 14  |      | 272 | -134 | 126  | 020  | 020  | 045  | 016  | 005                                                                                                   | 14   |     | 013  | -049 | 036  | -045 | 036  | -002 | 002  | -010 |
|                                                                                                         | 15 |     | 045  | 049  | -046 | 043  | -058 | -024 | -006 | -055                                                                                                     | 15  |      | 218 | -123 | 142  | 034  | 041  | 044  | 014  | 007                                                                                                   | 15   |     | -047 | -186 | 091  | -095 | 044  | -016 | 009  | -022 |
|                                                                                                         | 16 |     | -015 | -075 | -027 | -006 | 005  | 002  | 023  | -020                                                                                                     | 16  |      | 179 | -155 | 194  | -018 | 065  | -005 | -007 | -018                                                                                                  | 16   |     | -026 | -097 | 118  | -089 | 057  | 002  | -014 | 016  |
|                                                                                                         | 17 |     | 039  | -036 | -054 | -015 | 030  | 000  | 029  | -011                                                                                                     | 17  |      | 251 | -150 | 199  | 032  | 069  | 085  | 026  | 039                                                                                                   | 17   |     | -035 | -142 | 132  | -089 | 069  | 010  | 018  | 023  |
|                                                                                                         | 18 |     |      |      |      |      |      |      |      |                                                                                                          | 18  |      |     |      |      |      |      |      |      |                                                                                                       | 18   |     |      |      |      |      |      |      |      |      |
|                                                                                                         | 19 | **  | 019  | -043 | -072 | 060  | -021 | -010 | 030  | 025                                                                                                      | 19  | **   | 023 | -226 | 209  | -036 | 126  | 069  | 117  | 021                                                                                                   | 19   | **  | -117 | -084 | 128  | -102 | 102  | 022  | 055  | -004 |
|                                                                                                         | 20 | **  | -024 | -185 | -007 | -057 | 015  | -054 | 036  | -025                                                                                                     | 20  | **   | 199 | -107 | 193  | 193  | 039  | 102  | -003 | -017                                                                                                  | 20   | **  | -012 | -107 | 221  | 020  | 085  | 089  | -014 | 021  |
|                                                                                                         | 21 | **  | -031 | -061 | -081 | -013 | 003  | -030 | 017  | -015                                                                                                     | 21  | **   | 170 | -024 | 154  | 154  | -016 | 036  | -023 | -007                                                                                                  | 21   | **  | 008  | -099 | 181  | 005  | 048  | 038  | -011 | 032  |
|                                                                                                         | 22 | **  | -033 | -090 | -010 | -070 | 010  | -032 | 026  | -006                                                                                                     | 22  | **   | 175 | -128 | 222  | 091  | 070  | 078  | -038 | 017                                                                                                   | 22   | **  | -004 | -108 | 173  | -003 | 087  | 044  | -020 | 034  |
|                                                                                                         | 23 | **  | -023 | -150 | 033  | -020 | 047  | -022 | 048  | -009                                                                                                     | 23  | **   | 211 | -121 | 248  | 163  | 028  | 149  | -024 | 016                                                                                                   | 23   | **  | -020 | -083 | 145  | -021 | 076  | 053  | -014 | 025  |
|                                                                                                         | 24 |     | 013  | -041 | 021  | -050 | 013  | -028 | 017  | -023                                                                                                     | 24  |      | 221 | -097 | 211  | 122  | -007 | 099  | -044 | -007                                                                                                  | 24   |     | -002 | -109 | 139  | 009  | 044  | 063  | -016 | 022  |
|                                                                                                         | 25 |     | 006  | -028 | 039  | -015 | 041  | -009 | 023  | 005                                                                                                      | 25  |      | 263 | -156 | 209  | 146  | -033 | 119  | -031 | 012                                                                                                   | 25   |     | -032 | -164 | 132  | -017 | 042  | 073  | -023 | 017  |
|                                                                                                         | 26 | *   | 069  | -013 | 020  | 040  | 003  | -011 | 014  | -017                                                                                                     | 26  | *    | 226 | -125 | 146  | 073  | -022 | 080  | -011 | -015                                                                                                  | 26   | *   | -011 | -095 | 058  | -009 | 012  | 040  | -011 | 002  |
|                                                                                                         | 27 |     | 019  | 021  | 031  | -052 | -012 | 014  | -005 | 011                                                                                                      | 27  |      | 196 | -070 | 135  | 154  | -013 | 052  | -011 | 000                                                                                                   | 27   |     | -031 | -160 | 103  | 006  | 032  | 029  | -010 | 000  |
|                                                                                                         | 28 | *   | 009  | -036 | 003  | 008  | -009 | -006 | 014  | -027                                                                                                     | 28  | *    | 204 | -117 | 123  | 069  | 006  | 048  | 012  | -011                                                                                                  | 28   | *   | -030 | -137 | 088  | -046 | 050  | 027  | 001  | 016  |
|                                                                                                         | 29 | *   | 004  | -059 | 001  | 001  | 007  | -010 | 002  | -018                                                                                                     | 29  | *    | 233 | -065 | 100  | 098  | -005 | 037  | 005  | -017                                                                                                  | 29   | *   | -020 | -109 | 081  | -038 | 036  | 018  | 003  | -005 |
|                                                                                                         | 30 |     | 032  | -103 | -012 | 022  | -001 | 003  | 009  | -037                                                                                                     | 30  |      | 184 | -153 | 145  | 054  | 027  | 070  | 020  | 031                                                                                                   | 30   |     | -031 | -099 | 094  | -061 | 055  | 022  | 020  | 031  |
|                                                                                                         | 31 |     | 072  | 027  | -061 | 060  | 014  | 002  | -014 | -030                                                                                                     | 31  |      | 226 | -186 | 156  | 072  | 045  | 085  | 017  | 031                                                                                                   | 31   |     | -060 | -138 | 106  | -077 | 042  | 014  | 016  | 013  |
|                                                                                                         |    |     |      |      |      |      |      |      |      |                                                                                                          |     |      |     |      |      |      |      |      |      |                                                                                                       |      |     |      |      |      |      |      |      |      |      |
|                                                                                                         |    | *   | 013  | -044 | -008 | -010 | 002  | -022 | 012  | -012                                                                                                     |     | *    | 212 | -127 | 162  | 084  | 036  | 077  | -002 | 013                                                                                                   |      | *   | -031 | -131 | 114  | -041 | 064  | 026  | 004  | 015  |
|                                                                                                         |    |     | 018  | -047 | 011  | -015 | 005  | -017 | 008  | -011                                                                                                     |     | *    | 210 | -102 | 127  | 072  | 006  | 058  | -004 | 007                                                                                                   |      | *   | -011 | -102 | 082  | -023 | 041  | 027  | 001  | 009  |

WATHEROO  
 FEBRUARY 1954  
 HORIZONTAL INTENSITY  
 24000 PLUS TABULAR VALUES IN GAMMAS

2-0254-1-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |      |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 99 | 1  | 888 | 898 | 900 | 888 | 868 | 865 | 851 | 839  | 838  | 852 | 863 | 856 | 863 | 854 | 847 | 862 | 859 | 854 | 850 | 855 | 861 | 861 | 865 | 865 | 0    | 863 |     |
|    | 2  | 851 | 858 | 853 | 859 | 869 | 868 | 870 | 870  | 867  | 867 | 866 | 870 | 870 | 868 | 881 | 874 | 870 | 873 | 877 | 874 | 873 | 870 | 870 | 865 | 0    | 868 |     |
|    | 3  | 849 | 846 | 850 | 846 | 847 | 848 | 858 | 863  | 843  | 844 | 856 | 867 | 865 | 865 | 860 | 859 | 867 | 873 | 874 | 874 | 877 | 873 | 874 | 868 | 0    | 860 |     |
|    | 4  | 866 | 859 | 847 | 840 | 861 | 870 | 873 | 878  | 875  | 868 | 869 | 871 | 873 | 873 | 876 | 876 | 879 | 878 | 877 | 877 | 875 | 875 | 877 | 873 | 0    | 870 |     |
|    | 5  | *   | 865 | 860 | 854 | 848 | 846 | 852 | 859  | 869  | 873 | 872 | 871 | 869 | 872 | 872 | 868 | 879 | 881 | 882 | 889 | 880 | 876 | 874 | 880 | 880  | 0   | 870 |
|    | 6  | *   | 874 | 875 | 872 | 865 | 863 | 879 | 886  | 883  | 879 | 881 | 882 | 885 | 885 | 883 | 883 | 882 | 881 | 881 | 882 | 884 | 885 | 887 | 889 | 890  | 0   | 881 |
|    | 7  | *   | 887 | 886 | 879 | 873 | 869 | 867 | 872  | 878  | 881 | 885 | 888 | 890 | 890 | 893 | 893 | 892 | 893 | 893 | 886 | 892 | 890 | 895 | 897 | 899  | 0   | 886 |
|    | 8  | *   | 899 | 901 | 898 | 890 | 882 | 878 | 878  | 876  | 877 | 879 | 878 | 879 | 878 | 878 | 878 | 879 | 881 | 884 | 883 | 882 | 893 | 891 | 893 | 900  | 0   | 885 |
|    | 9  |     | 902 | 904 | 905 | 904 | 897 | 891 | 883  | 879  | 876 | 878 | 881 | 884 | 883 | 881 | 880 | 894 | 889 | 880 | 882 | 878 | 877 | 878 | 883 | 887  | 0   | 887 |
|    | 10 |     | 891 | 897 | 901 | 896 | 892 | 887 | 881  | 874  | 878 | 877 | 875 | 875 | 868 | 878 | 877 | 879 | 878 | 879 | 880 | 882 | 883 | 883 | 884 | 883  | 0   | 882 |
|    | 11 |     | 879 | 870 | 873 | 878 | 882 | 874 | 869  | 870  | 872 | 872 | 874 | 882 | 887 | 886 | 879 | 881 | 881 | 892 | 879 | 868 | 871 | 890 | 889 | 878  | 0   | 878 |
|    | 12 | *   | 871 | 863 | 857 | 859 | 860 | 864 | 863  | 861  | 867 | 868 | 868 | 869 | 871 | 872 | 878 | 878 | 880 | 884 | 883 | 885 | 886 | 887 | 885 | 887  | 0   | 873 |
|    | 13 |     | 880 | 878 | 880 | 882 | 879 | 873 | 865  | 860  | 860 | 861 | 874 | 878 | 874 | 878 | 880 | 879 | 881 | 884 | 881 | 882 | 884 | 883 | 882 | 880  | 0   | 877 |
|    | 14 |     | 878 | 882 | 882 | 878 | 878 | 877 | 877  | 878  | 879 | 879 | 873 | 870 | 875 | 872 | 871 | 867 | 861 | 876 | 879 | 881 | 891 | 879 | 875 | 871  | 0   | 876 |
|    | 15 | **  | 873 | 871 | 871 | 878 | 876 | 848 | 861* | 880* | 887 | 883 | 873 | 833 | 824 | 853 | 859 | 902 | 854 | 854 | 856 | 861 | 867 | 861 | 862 | 860  | 1   | 864 |
|    | 16 |     | 859 | 843 | 843 | 856 | 855 | 856 | 859  | 856  | 857 | 859 | 865 | 868 | 865 | 871 | 880 | 875 | 865 | 858 | 860 | 865 | 875 | 872 | 882 | 866  | 0   | 863 |
|    | 17 |     | 876 | 886 | 888 | 883 | 881 | 879 | 873  | 862  | 852 | 844 | 835 | 841 | 856 | 854 | 870 | 848 | 852 | 859 | 865 | 886 | 880 | 863 | 861 | 867  | 1   | 865 |
|    | 18 |     | 862 | 867 | 861 | 865 | 873 | 869 | 870  | 877  | 878 | 878 | 872 | 867 | 862 | 869 | 867 | 885 | 875 | 873 | 879 | 874 | 872 | 874 | 880 | 877  | 0   | 872 |
|    | 19 |     | 872 | 869 | 880 | 892 | 892 | 880 | 864  | 844  | 853 | 864 | 861 | 864 | 856 | 851 | 858 | 875 | 872 | 868 | 872 | 873 | 872 | 880 | 879 | 875  | 0   | 869 |
|    | 20 |     | 868 | 868 | 865 | 865 | 869 | 878 | 887  | 884  | 882 | 879 | 880 | 881 | 883 | 882 | 885 | 881 | 885 | 884 | 880 | 878 | 880 | 883 | 881 | 878* | 0   | 879 |
|    | 21 |     | 875 | 874 | 870 | 861 | 859 | 856 | 859  | 861  | 867 | 867 | 866 | 874 | 879 | 877 | 888 | 865 | 869 | 870 | 872 | 857 | 855 | 857 | 862 | 856  | 1   | 867 |
|    | 22 | **  | 838 | 837 | 836 | 816 | 829 | 830 | 836  | 849  | 847 | 850 | 844 | 838 | 834 | 854 | 871 | 858 | 866 | 858 | 864 | 869 | 880 | 867 | 871 | 856  | 1   | 850 |
|    | 23 | **  | 866 | 863 | 839 | 847 | 842 | 826 | 842  | 849  | 839 | 844 | 846 | 850 | 860 | 860 | 863 | 871 | 893 | 856 | 863 | 858 | 859 | 858 | 875 | 876  | 1   | 856 |
|    | 24 |     | 875 | 871 | 870 | 866 | 863 | 865 | 871  | 871  | 862 | 862 | 861 | 854 | 839 | 852 | 860 | 854 | 858 | 866 | 875 | 874 | 863 | 870 | 865 | 873  | 0   | 864 |
|    | 25 |     | 872 | 873 | 872 | 869 | 857 | 851 | 860  | 869  | 866 | 863 | 856 | 863 | 868 | 866 | 872 | 867 | 872 | 863 | 863 | 873 | 868 | 864 | 866 | 869  | 0   | 866 |
|    | 26 | **  | 868 | 868 | 871 | 868 | 874 | 881 | 870  | 845  | 845 | 844 | 817 | 790 | 837 | 853 | 854 | 852 | 852 | 849 | 855 | 862 | 866 | 872 | 854 | 850  | 1   | 854 |
|    | 27 | **  | 849 | 847 | 847 | 850 | 848 | 850 | 854  | 859  | 848 | 853 | 847 | 845 | 848 | 851 | 858 | 893 | 852 | 856 | 860 | 859 | 860 | 857 | 857 | 847  | 0   | 854 |
|    | 28 |     | 867 | 860 | 867 | 854 | 847 | 839 | 838  | 843  | 849 | 853 | 857 | 861 | 872 | 869 | 864 | 869 | 875 | 869 | 867 | 867 | 870 | 869 | 865 | 868  | 0   | 861 |
|    |    | *   | 871 | 871 | 869 | 867 | 866 | 864 | 865  | 865  | 864 | 865 | 864 | 863 | 866 | 868 | 871 | 874 | 872 | 871 | 873 | 873 | 875 | 874 | 875 | 873  |     | 869 |
|    |    | **  | 879 | 877 | 872 | 867 | 864 | 868 | 872  | 873  | 875 | 877 | 877 | 878 | 879 | 880 | 880 | 882 | 883 | 885 | 885 | 885 | 886 | 887 | 889 | 891  |     | 879 |
|    |    | **  | 859 | 857 | 853 | 852 | 854 | 847 | 853  | 856  | 853 | 855 | 845 | 831 | 841 | 854 | 861 | 875 | 863 | 855 | 860 | 862 | 866 | 863 | 864 | 858  |     | 856 |

WATHEROO  
 FEBRUARY 1954  
 DECLINATION WEST  
 2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |   |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 19 | 1  | 482 | 481 | 464 | 441 | 412 | 405 | 398 | 409  | 416  | 436 | 448 | 451 | 460 | 482 | 504 | 508 | 496 | 488 | 477 | 472 | 477 | 464 | 482 | 493 | 0 | 460 |
|    | 2  | 491 | 484 | 473 | 460 | 447 | 439 | 431 | 427  | 431  | 440 | 449 | 469 | 472 | 461 | 501 | 481 | 462 | 462 | 462 | 462 | 469 | 468 | 478 | 482 | 0 | 463 |
|    | 3  | 481 | 484 | 482 | 468 | 449 | 430 | 416 | 399  | 399  | 420 | 435 | 460 | 471 | 475 | 467 | 461 | 461 | 458 | 459 | 451 | 440 | 461 | 468 | 473 | 0 | 453 |
|    | 4  | 496 | 507 | 503 | 461 | 430 | 402 | 398 | 405  | 419  | 431 | 450 | 451 | 452 | 459 | 462 | 461 | 453 | 458 | 451 | 447 | 456 | 462 | 474 | 487 | 0 | 453 |
|    | 5  | *   | 505 | 513 | 504 | 483 | 455 | 420 | 415  | 424  | 430 | 442 | 449 | 451 | 455 | 461 | 460 | 460 | 461 | 461 | 466 | 461 | 457 | 462 | 482 | 0 | 459 |
|    | 6  | *   | 494 | 511 | 508 | 489 | 451 | 427 | 412  | 413  | 420 | 430 | 440 | 448 | 451 | 451 | 452 | 453 | 454 | 454 | 455 | 455 | 458 | 461 | 470 | 0 | 456 |
|    | 7  | *   | 506 | 514 | 507 | 481 | 448 | 420 | 408  | 409  | 421 | 435 | 442 | 443 | 442 | 442 | 443 | 451 | 451 | 454 | 451 | 451 | 459 | 461 | 464 | 0 | 453 |
|    | 8  | *   | 478 | 492 | 501 | 492 | 474 | 450 | 431  | 430  | 435 | 440 | 442 | 446 | 451 | 463 | 461 | 459 | 460 | 459 | 459 | 449 | 442 | 456 | 463 | 0 | 459 |
|    | 9  |     | 492 | 513 | 513 | 500 | 472 | 440 | 409  | 399  | 407 | 420 | 432 | 440 | 447 | 451 | 462 | 462 | 474 | 471 | 467 | 461 | 461 | 461 | 462 | 0 | 458 |
|    | 10 |     | 481 | 486 | 487 | 483 | 476 | 464 | 450  | 440  | 429 | 428 | 431 | 440 | 451 | 464 | 458 | 461 | 465 | 468 | 459 | 451 | 450 | 462 | 470 | 0 | 459 |
| 20 | 11 |     | 482 | 482 | 472 | 472 | 456 | 442 | 430  | 425  | 427 | 430 | 432 | 441 | 441 | 444 | 450 | 451 | 452 | 467 | 475 | 475 | 451 | 440 | 462 | 0 | 453 |
|    | 12 | *   | 488 | 490 | 482 | 473 | 451 | 431 | 429  | 430  | 434 | 441 | 448 | 450 | 451 | 458 | 458 | 453 | 452 | 452 | 454 | 457 | 451 | 460 | 464 | 0 | 455 |
|    | 13 |     | 482 | 482 | 481 | 467 | 443 | 430 | 420  | 415  | 420 | 430 | 451 | 449 | 449 | 461 | 471 | 461 | 458 | 456 | 458 | 460 | 459 | 459 | 471 | 0 | 455 |
|    | 14 |     | 487 | 484 | 483 | 477 | 456 | 441 | 430  | 421  | 425 | 435 | 449 | 462 | 443 | 451 | 467 | 483 | 481 | 460 | 459 | 452 | 441 | 451 | 473 | 0 | 458 |
|    | 15 | **  | 503 | 505 | 497 | 485 | 460 | 439 | 429* | 429* | 421 | 426 | 439 | 472 | 484 | 452 | 496 | 515 | 484 | 461 | 466 | 447 | 459 | 462 | 462 | 1 | 466 |
|    | 16 |     | 503 | 487 | 464 | 462 | 451 | 439 | 429  | 426  | 430 | 431 | 436 | 442 | 444 | 457 | 483 | 495 | 482 | 472 | 456 | 435 | 440 | 462 | 461 | 0 | 456 |
|    | 17 |     | 443 | 475 | 470 | 470 | 459 | 451 | 441  | 437  | 431 | 435 | 455 | 479 | 485 | 481 | 482 | 499 | 472 | 456 | 450 | 430 | 452 | 461 | 452 | 1 | 459 |
|    | 18 |     | 482 | 481 | 472 | 461 | 451 | 434 | 433  | 430  | 431 | 436 | 451 | 482 | 454 | 454 | 473 | 476 | 485 | 488 | 472 | 451 | 462 | 466 | 472 | 0 | 462 |
|    | 19 |     | 483 | 490 | 483 | 472 | 457 | 443 | 428  | 420  | 424 | 430 | 440 | 450 | 454 | 461 | 461 | 461 | 453 | 460 | 459 | 451 | 440 | 446 | 460 | 0 | 454 |
|    | 20 |     | 475 | 485 | 485 | 482 | 460 | 439 | 424  | 425  | 430 | 437 | 440 | 441 | 444 | 451 | 461 | 462 | 457 | 461 | 465 | 461 | 454 | 456 | 456 | 0 | 455 |
| 21 | 21 |     | 481 | 493 | 497 | 489 | 469 | 451 | 431  | 422  | 420 | 421 | 442 | 435 | 439 | 457 | 472 | 489 | 492 | 504 | 500 | 503 | 488 | 482 | 452 | 1 | 466 |
|    | 22 | **  | 450 | 461 | 458 | 451 | 451 | 435 | 424  | 420  | 430 | 452 | 462 | 448 | 461 | 492 | 469 | 472 | 460 | 460 | 461 | 452 | 431 | 445 | 441 | 1 | 451 |
|    | 23 | **  | 461 | 461 | 482 | 480 | 475 | 459 | 443  | 430  | 425 | 424 | 432 | 442 | 450 | 463 | 472 | 486 | 486 | 482 | 463 | 476 | 467 | 453 | 432 | 1 | 458 |
|    | 24 |     | 461 | 475 | 482 | 482 | 472 | 457 | 440  | 430  | 429 | 430 | 446 | 478 | 467 | 472 | 464 | 461 | 461 | 451 | 452 | 464 | 451 | 450 | 454 | 0 | 458 |
|    | 25 |     | 471 | 482 | 485 | 482 | 471 | 460 | 441  | 422  | 426 | 430 | 445 | 450 | 461 | 456 | 458 | 461 | 470 | 472 | 451 | 451 | 463 | 456 | 455 | 0 | 457 |
|    | 26 | **  | 463 | 465 | 471 | 471 | 465 | 462 | 442  | 430  | 420 | 420 | 481 | 497 | 451 | 450 | 451 | 470 | 501 | 482 | 447 | 430 | 429 | 461 | 451 | 1 | 456 |
|    | 27 | **  | 461 | 469 | 482 | 476 | 461 | 451 | 437  | 433  | 457 | 462 | 460 | 461 | 461 | 457 | 461 | 462 | 480 | 474 | 482 | 470 | 461 | 452 | 459 | 0 | 461 |
|    | 28 |     | 450 | 469 | 486 | 484 | 480 | 461 | 442  | 431  | 429 | 430 | 437 | 448 | 458 | 453 | 482 | 472 | 448 | 465 | 464 | 461 | 456 | 455 | 456 | 0 | 457 |
|    |    | *   | 480 | 486 | 485 | 475 | 457 | 440 | 427  | 422  | 425 | 433 | 445 | 454 | 455 | 460 | 468 | 471 | 468 | 466 | 462 | 457 | 454 | 458 | 462 |   | 457 |
|    |    | **  | 494 | 504 | 500 | 484 | 456 | 432 | 420  | 419  | 427 | 435 | 443 | 447 | 449 | 454 | 455 | 455 | 455 | 456 | 458 | 456 | 453 | 459 | 464 |   | 456 |
|    |    |     | 468 | 472 | 478 | 473 | 462 | 449 | 435  | 428  | 431 | 437 | 455 | 464 | 461 | 463 | 470 | 481 | 482 | 472 | 464 | 455 | 449 | 455 | 449 |   | 459 |

WATHEROO  
FEBRUARY 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0254-3-3

|    |    | 1  | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9 | 10   | 11   | 12  | 13 | 14  | 15  | 16  | 17 | 18  | 19  | 20  | 21 | 22  | 23  | 24  |  |     |     |     |  |     |     |      |   |     |
|----|----|----|-----|-----|-----|---|-----|-----|-----|---|------|------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|------|---|-----|
| 89 | 1  |    | 126 | 119 | 107 |   | 100 | 102 | 112 |   | 121  | 136  | 141 |    | 145 | 144 | 144 |    | 144 | 154 | 159 |    | 148 | 139 | 132 |  | 128 | 123 | 126 |  | 125 | 135 | 137  | 0 | 131 |
|    | 2  |    | 132 | 116 | 104 |   | 101 | 100 | 104 |   | 110  | 119  | 127 |    | 133 | 139 | 146 |    | 145 | 139 | 149 |    | 135 | 126 | 126 |  | 123 | 125 | 129 |  | 132 | 138 | 141  | 0 | 127 |
|    | 3  |    | 134 | 124 | 113 |   | 112 | 106 | 103 |   | 101  | 100  | 121 |    | 139 | 141 | 146 |    | 152 | 150 | 142 |    | 136 | 130 | 126 |  | 125 | 124 | 120 |  | 134 | 138 | 139  | 0 | 127 |
|    | 4  |    | 148 | 143 | 121 |   | 100 | 093 | 091 |   | 103  | 116  | 129 |    | 138 | 144 | 140 |    | 139 | 141 | 139 |    | 136 | 129 | 128 |  | 123 | 121 | 127 |  | 132 | 138 | 147  | 0 | 128 |
|    | 5  | *  | 156 | 152 | 139 |   | 119 | 092 | 080 |   | 085  | 097  | 113 |    | 124 | 134 | 138 |    | 139 | 141 | 145 |    | 136 | 132 | 130 |  | 125 | 130 | 129 |  | 129 | 134 | 144  | 0 | 127 |
|    | 6  | *  | 148 | 147 | 133 |   | 115 | 094 | 087 |   | 094  | 106  | 121 |    | 128 | 135 | 135 |    | 138 | 138 | 138 |    | 137 | 134 | 132 |  | 130 | 127 | 126 |  | 129 | 136 | 145  | 0 | 127 |
|    | 7  | *  | 151 | 144 | 126 |   | 104 | 088 | 083 |   | 087  | 102  | 117 |    | 126 | 128 | 128 |    | 129 | 131 | 134 |    | 135 | 134 | 133 |  | 135 | 125 | 124 |  | 126 | 126 | 130  | 0 | 123 |
|    | 8  | *  | 140 | 146 | 138 |   | 129 | 116 | 104 |   | 107  | 115  | 123 |    | 126 | 129 | 130 |    | 135 | 142 | 139 |    | 136 | 133 | 131 |  | 130 | 123 | 118 |  | 123 | 126 | 130  | 0 | 128 |
|    | 9  |    | 136 | 137 | 132 |   | 115 | 098 | 082 |   | 082  | 097  | 115 |    | 125 | 129 | 129 |    | 133 | 136 | 143 |    | 136 | 140 | 138 |  | 130 | 127 | 126 |  | 127 | 125 | 129  | 0 | 124 |
|    | 10 |    | 138 | 138 | 134 |   | 130 | 129 | 119 |   | 112  | 119  | 120 |    | 125 | 131 | 134 |    | 143 | 144 | 139 |    | 139 | 140 | 138 |  | 131 | 126 | 125 |  | 132 | 134 | 133  | 0 | 131 |
|    | 11 |    | 137 | 134 | 126 |   | 121 | 112 | 108 |   | 111  | 116  | 122 |    | 127 | 129 | 130 |    | 131 | 133 | 134 |    | 135 | 136 | 137 |  | 142 | 141 | 128 |  | 119 | 132 | 142  | 0 | 128 |
|    | 12 | *  | 143 | 136 | 121 |   | 104 | 099 | 103 |   | 112  | 123  | 131 |    | 137 | 139 | 136 |    | 136 | 138 | 135 |    | 132 | 132 | 132 |  | 133 | 133 | 129 |  | 132 | 135 | 136  | 0 | 129 |
|    | 13 |    | 138 | 135 | 130 |   | 114 | 109 | 110 |   | 114  | 122  | 132 |    | 139 | 144 | 136 |    | 136 | 141 | 140 |    | 133 | 132 | 131 |  | 132 | 132 | 132 |  | 132 | 138 | 141  | 0 | 131 |
|    | 14 |    | 133 | 128 | 124 |   | 115 | 106 | 102 |   | 106  | 113  | 124 |    | 134 | 143 | 150 |    | 135 | 139 | 145 |    | 152 | 147 | 129 |  | 129 | 129 | 122 |  | 134 | 147 | 151  | 0 | 131 |
|    | 15 | ** | 146 | 139 | 126 |   | 108 | 098 | 100 |   |      |      | 112 |    | 123 | 134 | 165 |    | 175 | 137 | 153 |    | 141 | 136 | 123 |  | 125 | 117 | 122 |  | 130 | 131 | 141  | 1 | 131 |
|    | 16 |    | 135 | 122 | 113 |   | 110 | 106 | 101 |   | 098  | 106  | 117 |    | 123 | 128 | 129 |    | 133 | 136 | 142 |    | 145 | 134 | 128 |  | 117 | 109 | 110 |  | 124 | 121 | 121  | 0 | 121 |
|    | 17 |    | 111 | 121 | 114 |   | 115 | 112 | 113 |   | 112  | 113  | 120 |    | 133 | 149 | 159 |    | 148 | 142 | 135 |    | 149 | 128 | 118 |  | 115 | 104 | 117 |  | 126 | 125 | 125  | 1 | 125 |
|    | 18 |    | 135 | 131 | 118 |   | 108 | 102 | 098 |   | 104  | 111  | 119 |    | 126 | 138 | 155 |    | 140 | 138 | 146 |    | 137 | 141 | 139 |  | 123 | 115 | 123 |  | 125 | 127 | 134  | 0 | 126 |
|    | 19 |    | 135 | 131 | 121 |   | 111 | 106 | 103 |   | 106  | 119  | 123 |    | 127 | 136 | 140 |    | 146 | 150 | 142 |    | 135 | 129 | 131 |  | 127 | 124 | 122 |  | 125 | 131 | 137  | 0 | 127 |
|    | 20 |    | 141 | 142 | 137 |   | 122 | 105 | 097 |   | 104  | 116  | 125 |    | 132 | 133 | 136 |    | 137 | 140 | 142 |    | 141 | 133 | 131 |  | 132 | 129 | 125 |  | 125 | 129 | 137* | 0 | 129 |
|    | 21 |    | 142 | 145 | 139 |   | 129 | 117 | 110 |   | 105  | 108  | 113 |    | 121 | 138 | 133 |    | 133 | 144 | 146 |    | 160 | 154 | 148 |  | 138 | 134 | 125 |  | 122 | 110 | 111  | 1 | 130 |
|    | 22 | ** | 124 | 133 | 132 |   | 127 | 115 | 104 |   | 113  | 120  | 133 |    | 146 | 151 | 145 |    | 155 | 162 | 136 |    | 143 | 132 | 133 |  | 132 | 127 | 116 |  | 127 | 124 | 128  | 1 | 132 |
|    | 23 | ** | 142 | 139 | 149 |   | 143 | 134 | 126 |   | 121  | 120  | 128 |    | 132 | 139 | 143 |    | 143 | 151 | 151 |    | 152 | 138 | 144 |  | 129 | 132 | 128 |  | 124 | 112 | 124  | 1 | 135 |
|    | 24 |    | 127 | 135 | 131 |   | 124 | 115 | 108 |   | 104  | 108  | 119 |    | 124 | 135 | 155 |    | 151 | 147 | 140 |    | 140 | 137 | 130 |  | 131 | 134 | 129 |  | 130 | 135 | 134  | 0 | 130 |
|    | 25 |    | 134 | 141 | 138 |   | 131 | 126 | 118 |   | 106  | 107  | 120 |    | 131 | 142 | 139 |    | 142 | 139 | 138 |    | 142 | 142 | 143 |  | 130 | 126 | 134 |  | 130 | 130 | 131  | 0 | 132 |
|    | 26 | ** | 138 | 138 | 141 |   | 138 | 131 | 126 |   | 124  | 131  | 134 |    | 139 | 183 | 195 |    | 147 | 140 | 143 |    | 153 | 168 | 152 |  | 132 | 126 | 126 |  | 135 | 131 | 128  | 1 | 142 |
|    | 27 | ** | 137 | 143 | 148 |   | 141 | 132 | 125 |   | 121  | 128  | 149 |    | 155 | 154 | 154 |    | 150 | 147 | 147 |    | 139 | 155 | 146 |  | 146 | 140 | 137 |  | 136 | 142 | 136  | 0 | 142 |
|    | 28 |    | 134 | 143 | 142 |   | 140 | 133 | 128 |   | 126  | 129  | 133 |    | 139 | 144 | 147 |    | 147 | 147 | 160 |    | 147 | 135 | 144 |  | 143 | 143 | 139 |  | 143 | 143 | 147  | 0 | 141 |
|    |    | *  | 137 | 136 | 128 |   | 119 | 110 | 105 |   | 107  | 115  | 124 |    | 132 | 140 | 143 |    | 142 | 142 | 143 |    | 141 | 137 | 134 |  | 130 | 127 | 126 |  | 129 | 131 | 135  |   | 130 |
|    |    | ** | 148 | 145 | 131 |   | 114 | 098 | 091 |   | 097  | 109  | 121 |    | 128 | 133 | 133 |    | 135 | 138 | 138 |    | 135 | 133 | 132 |  | 131 | 128 | 125 |  | 128 | 131 | 137  |   | 127 |
|    |    |    | 137 | 138 | 139 |   | 131 | 122 | 116 |   | 120* | 125* | 131 |    | 139 | 152 | 160 |    | 154 | 147 | 146 |    | 146 | 146 | 140 |  | 133 | 128 | 126 |  | 130 | 128 | 131  |   | 136 |

WATHEROO  
FEBRUARY 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0254-1-3

WATHEROO  
FEBRUARY 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0254-2-3

WATHEROO  
FEBRUARY 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0254-3-3

69

|    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|------|------|------|------|------|------|------|------|
| 1  | 139  | 044  | 080  | 114  | -040 | 067  | -013 | -010 |
| 2  | -044 | -050 | -039 | -021 | -009 | -036 | 000  | -006 |
| 3  | 006  | -123 | -009 | -050 | -025 | -038 | 038  | 003  |
| 4  | -048 | -073 | -022 | -063 | 046  | -046 | 037  | 006  |
| 5  | *    | -029 | -125 | 006  | 047  | 016  | 018  | 003  |
| 6  | *    | -021 | -043 | 018  | 021  | -033 | 021  | 007  |
| 7  | *    | -006 | -100 | 062  | 026  | -001 | -003 | -005 |
| 8  | *    | 101  | -010 | 046  | 009  | 021  | -005 | 004  |
| 9  |      | 063  | 044  | 018  | 094  | 000  | 032  | 000  |
| 10 |      | 086  | 034  | -003 | 045  | -013 | 022  | -023 |
| 11 |      | -006 | -045 | 023  | 021  | -007 | -024 | 018  |
| 12 | *    | 021  | -123 | 004  | -046 | 014  | -024 | 009  |
| 13 |      | 048  | -068 | 013  | 039  | -037 | 000  | 005  |
| 14 |      | 038  | 018  | -011 | -031 | -031 | 012  | -017 |
| 15 | **   | 039  | 057  | -044 | -006 | 102  | 043  | -150 |
| 16 |      | -032 | -082 | 030  | -031 | 000  | -080 | -020 |
| 17 |      | 158  | 032  | -056 | 063  | -052 | -019 | -009 |
| 18 |      | -008 | -025 | -030 | -037 | 036  | -007 | -016 |
| 19 |      | 112  | -001 | -029 | 046  | -053 | 006  | -017 |
| 20 |      | -053 | -034 | -018 | -037 | 023  | -037 | 014  |
| 21 |      | -055 | -024 | 049  | 055  | 014  | 025  | 008  |
| 22 | **   | 004  | -182 | -017 | -087 | 047  | -042 | -054 |
| 23 | **   | 028  | -148 | 051  | 029  | 078  | -012 | 014  |
| 24 |      | 085  | 012  | -036 | -028 | 028  | 026  | 008  |
| 25 |      | 020  | -029 | 023  | 018  | 022  | 014  | -024 |
| 26 | **   | 179  | 024  | -112 | 071  | 009  | -076 | -054 |
| 27 | **   | -015 | -062 | -043 | 009  | 034  | -030 | -043 |
| 28 |      | 015  | -126 | 059  | 025  | -006 | 024  | -011 |
|    |      | 031  | -044 | 001  | 002  | 009  | -006 | -010 |
| *  |      | 014  | -081 | 026  | -035 | 023  | -005 | 008  |

|    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|-----|------|------|------|------|------|------|------|
| 1  | 060 | -381 | 164  | 140  | 088  | 046  | -042 | 002  |
| 2  | 083 | -152 | 151  | 114  | 010  | -007 | -011 | 011  |
| 3  | 127 | -152 | 174  | 205  | -061 | 025  | 038  | -010 |
| 4  | 194 | -151 | 250  | 145  | 020  | 125  | -045 | 020  |
| 5  | *   | 225  | -090 | 144  | 177  | -016 | 120  | -016 |
| 6  | *   | 247  | -071 | 173  | 167  | -029 | 114  | -032 |
| 7  | *   | 244  | -065 | 160  | 159  | -016 | 171  | -038 |
| 8  | *   | 153  | -002 | 074  | 183  | -024 | 065  | -030 |
| 9  |     | 261  | -117 | 086  | 260  | -071 | 125  | -039 |
| 10 |     | 169  | -018 | 016  | 166  | -005 | -007 | 020  |
| 11 |     | 183  | -087 | 030  | 104  | -009 | 086  | 050  |
| 12 | *   | 142  | -048 | 126  | 100  | -003 | 068  | -019 |
| 13 |     | 146  | -131 | 140  | 121  | -010 | 045  | -017 |
| 14 |     | 131  | -093 | 103  | 173  | 048  | 062  | 006  |
| 15 | **  | 119  | -135 | 150  | 263  | 037  | 034  | -011 |
| 16 |     | 087  | -127 | 067  | 203  | 105  | 027  | -023 |
| 17 |     | -058 | -072 | 094  | 184  | -035 | -043 | -026 |
| 18 |     | 080  | -161 | 086  | 109  | 029  | 066  | 036  |
| 19 |     | 132  | -057 | 103  | 172  | -010 | 059  | 024  |
| 20 |     | 151  | -071 | 051  | 139  | -024 | 079  | -039 |
| 21 |     | 192  | -233 | -096 | 179  | -075 | 110  | -053 |
| 22 | **  | -078 | -102 | 060  | 137  | -040 | 046  | -029 |
| 23 | **  | 070  | -122 | -088 | 203  | -053 | 021  | -029 |
| 24 |     | 050  | -024 | 065  | 158  | -105 | 011  | 011  |
| 25 |     | 118  | -045 | 027  | 167  | -059 | 035  | 003  |
| 26 | **  | -013 | -043 | 033  | 167  | -032 | 069  | 072  |
| 27 | **  | 014  | -071 | -018 | 073  | -054 | 118  | -036 |
| 28 |     | 093  | -044 | -012 | 168  | -079 | -011 | -033 |
|    |     | 119  | -103 | 084  | 162  | -017 | 059  | -013 |
| *  |     | 203  | -055 | 134  | 156  | -020 | 107  | -028 |

|    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|------|------|------|------|------|------|------|------|
| 1  | -152 | -089 | 083  | -037 | 083  | -031 | -005 | 014  |
| 2  | -088 | -108 | 125  | -053 | 037  | -028 | 013  | -003 |
| 3  | -078 | -112 | 158  | -004 | 001  | 005  | 007  | -027 |
| 4  | -037 | -105 | 177  | -034 | 079  | 045  | -002 | 022  |
| 5  | *    | 023  | -154 | 202  | 052  | 032  | 088  | -028 |
| 6  | *    | 006  | -133 | 163  | 021  | 052  | 077  | -014 |
| 7  | *    | 003  | -157 | 136  | 018  | 063  | 100  | -012 |
| 8  | *    | -007 | -058 | 089  | 071  | 023  | 056  | -019 |
| 9  |      | -016 | -168 | 124  | 051  | 024  | 090  | -045 |
| 10 |      | -009 | -064 | 062  | 063  | 000  | 013  | 003  |
| 11 |      | 004  | -102 | 048  | 012  | 026  | 053  | 020  |
| 12 | *    | -035 | -095 | 100  | -046 | 054  | 042  | 008  |
| 13 |      | -029 | -072 | 096  | -028 | 033  | 032  | -011 |
| 14 |      | -048 | -124 | 126  | 003  | 056  | 017  | -011 |
| 15 | **   |      |      |      |      |      |      |      |
| 16 |      | -070 | -097 | 096  | 057  | 053  | 011  | -017 |
| 17 |      | -139 | -039 | 118  | 016  | -012 | -011 | -006 |
| 18 |      | -081 | -116 | 126  | 025  | 038  | 038  | 020  |
| 19 |      | -065 | -092 | 121  | 014  | 025  | 012  | 014  |
| 20 |      | -020 | -092 | 112  | 036  | 036  | 063  | -026 |
| 21 |      | -049 | -127 | 029  | 127  | 008  | 089  | -026 |
| 22 | **   | -119 | -052 | 107  | 025  | -011 | 052  | -020 |
| 23 | **   | -056 | -030 | 037  | 111  | -021 | 045  | -026 |
| 24 |      | -050 | -107 | 114  | 038  | -039 | 024  | 002  |
| 25 |      | -019 | -079 | 072  | 060  | -020 | 054  | -016 |
| 26 | **   | -136 | -034 | 083  | 033  | -019 | 095  | 025  |
| 27 | **   | -058 | -043 | 055  | 006  | -009 | 076  | -028 |
| 28 |      | -020 | -062 | 055  | 026  | -016 | 003  | -020 |
|    |      | -050 | -094 | 107  | 024  | 020  | 040  | -007 |
| *  |      | -001 | -120 | 137  | 023  | 046  | 073  | -012 |



WATHEROO  
MARCH 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0354-1-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3  | 1  | *   | 870 | 870 | 873 | 872 | 872 | 872  | 870 | 872 | 870 | 868 | 872 | 871 | 873 | 871 | 870 | 871 | 870 | 871 | 875 | 880 | 883 | 879 | 884 | 893 | 0   | 874 |
|    | 2  |     | 884 | 878 | 878 | 863 | 846 | 847  | 849 | 852 | 854 | 855 | 850 | 861 | 863 | 866 | 867 | 868 | 869 | 873 | 878 | 877 | 878 | 877 | 875 | 873 | 0   | 866 |
|    | 3  |     | 873 | 874 | 873 | 869 | 865 | 867  | 873 | 869 | 866 | 866 | 866 | 866 | 867 | 877 | 867 | 882 | 874 | 871 | 871 | 875 | 877 | 878 | 880 | 877 | 0   | 872 |
|    | 4  |     | 878 | 873 | 872 | 876 | 873 | 875  | 877 | 877 | 861 | 850 | 849 | 846 | 849 | 874 | 863 | 868 | 868 | 871 | 877 | 883 | 885 | 884 | 885 | 880 | 0   | 871 |
|    | 5  |     | 863 | 859 | 857 | 856 | 856 | 850  | 843 | 847 | 854 | 860 | 864 | 871 | 871 | 855 | 857 | 864 | 861 | 872 | 870 | 869 | 871 | 873 | 871 | 871 | 0   | 862 |
|    | 6  |     | 867 | 868 | 871 | 868 | 871 | 871  | 871 | 870 | 870 | 870 | 873 | 873 | 872 | 873 | 873 | 875 | 874 | 874 | 878 | 875 | 875 | 877 | 874 | 874 | 0   | 872 |
|    | 7  |     | 870 | 872 | 857 | 859 | 859 | 856  | 852 | 851 | 851 | 849 | 846 | 855 | 863 | 851 | 851 | 872 | 865 | 879 | 869 | 872 | 871 | 878 | 873 | 874 | 0   | 862 |
|    | 8  |     | 866 | 862 | 855 | 846 | 848 | 858  | 857 | 856 | 857 | 858 | 863 | 870 | 867 | 873 | 873 | 877 | 876 | 878 | 878 | 881 | 882 | 874 | 868 | 871 | 0   | 866 |
|    | 9  |     | 871 | 871 | 873 | 866 | 863 | 853  | 850 | 854 | 858 | 850 | 850 | 855 | 862 | 861 | 871 | 869 | 870 | 898 | 890 | 878 | 865 | 860 | 863 | 863 | 0   | 865 |
|    | 10 |     | 863 | 863 | 872 | 877 | 871 | 864  | 859 | 856 | 851 | 861 | 867 | 870 | 864 | 859 | 870 | 876 | 869 | 870 | 879 | 873 | 880 | 875 | 879 | 879 | 0   | 869 |
| 3  | 11 |     | 873 | 873 | 874 | 858 | 856 | 856  | 853 | 850 | 850 | 852 | 861 | 864 | 853 | 853 | 857 | 859 | 860 | 865 | 867 | 872 | 868 | 867 | 874 | 875 | 0   | 862 |
|    | 12 |     | 869 | 868 | 869 | 869 | 865 | 861  | 854 | 860 | 860 | 864 | 873 | 872 | 860 | 855 | 865 | 870 | 880 | 869 | 868 | 874 | 884 | 878 | 880 | 880 | 0   | 869 |
|    | 13 | *   | 881 | 881 | 879 | 872 | 866 | 865  | 865 | 865 | 867 | 872 | 875 | 875 | 867 | 865 | 861 | 856 | 860 | 861 | 869 | 881 | 884 | 865 | 864 | 860 | 0   | 869 |
|    | 14 | **  | 859 | 856 | 864 | 860 | 864 | 864  | 846 | 833 | 844 | 848 | 848 | 851 | 853 | 867 | 878 | 876 | 855 | 874 | 862 | 861 | 863 | 865 | 857 | 853 | 1   | 858 |
|    | 15 | **  | 835 | 846 | 858 | 847 | 837 | 853  | 844 | 819 | 843 | 843 | 853 | 855 | 855 | 860 | 863 | 858 | 863 | 866 | 864 | 872 | 874 | 867 | 852 | 860 | 1   | 854 |
| 3  | 16 |     | 858 | 853 | 856 | 861 | 849 | 849  | 856 | 848 | 852 | 840 | 845 | 856 | 856 | 879 | 865 | 858 | 859 | 865 | 866 | 873 | 873 | 857 | 855 | 855 | 1   | 858 |
|    | 17 |     | 849 | 851 | 864 | 868 | 869 | 867  | 867 | 862 | 857 | 859 | 863 | 865 | 867 | 866 | 870 | 873 | 873 | 853 | 862 | 866 | 871 | 872 | 874 | 861 | 0   | 865 |
|    | 18 |     | 867 | 849 | 855 | 874 | 865 | 856* | 843 | 842 | 839 | 842 | 853 | 854 | 854 | 862 | 862 | 856 | 863 | 862 | 867 | 892 | 874 | 868 | 868 | 871 | 1   | 860 |
|    | 19 |     | 870 | 875 | 879 | 877 | 874 | 877  | 876 | 871 | 871 | 876 | 878 | 875 | 874 | 867 | 879 | 857 | 857 | 858 | 859 | 863 | 865 | 863 | 864 | 873 | 0   | 870 |
|    | 20 | **  | 876 | 865 | 852 | 857 | 860 | 864  | 860 | 863 | 851 | 858 | 866 | 866 | 876 | 875 | 870 | 874 | 888 | 893 | 886 | 886 | 872 | 868 | 865 | 852 | 0   | 868 |
| 3  | 21 |     | 860 | 866 | 861 | 857 | 859 | 856  | 858 | 862 | 863 | 861 | 860 | 867 | 874 | 872 | 874 | 873 | 872 | 879 | 878 | 882 | 888 | 880 | 872 | 869 | 0   | 868 |
|    | 22 |     | 862 | 849 | 851 | 856 | 855 | 856  | 860 | 866 | 863 | 866 | 867 | 872 | 874 | 870 | 870 | 877 | 874 | 880 | 876 | 882 | 902 | 902 | 867 | 855 | 0   | 869 |
|    | 23 | **  | 831 | 828 | 835 | 833 | 850 | 861  | 849 | 821 | 829 | 842 | 847 | 833 | 826 | 876 | 860 | 846 | 854 | 861 | 865 | 886 | 902 | 874 | 861 | 852 | 1   | 851 |
|    | 24 | **  | 863 | 848 | 838 | 833 | 830 | 834  | 841 | 835 | 843 | 840 | 839 | 849 | 855 | 867 | 864 | 865 | 864 | 874 | 892 | 873 | 862 | 869 | 875 | 866 | 1   | 855 |
|    | 25 |     | 860 | 848 | 839 | 834 | 835 | 836  | 841 | 841 | 844 | 852 | 859 | 870 | 866 | 870 | 859 | 860 | 866 | 861 | 864 | 879 | 879 | 870 | 872 | 875 | 0   | 858 |
| 3  | 26 |     | 870 | 858 | 849 | 849 | 851 | 846  | 849 | 854 | 855 | 849 | 858 | 857 | 876 | 866 | 865 | 866 | 883 | 873 | 865 | 868 | 870 | 872 | 872 | 877 | 0   | 862 |
|    | 27 | *   | 870 | 856 | 845 | 846 | 841 | 845  | 846 | 847 | 850 | 851 | 855 | 865 | 865 | 867 | 869 | 869 | 868 | 870 | 873 | 876 | 876 | 875 | 876 | 879 | 0   | 862 |
|    | 28 | *   | 878 | 873 | 875 | 873 | 867 | 860  | 856 | 855 | 859 | 864 | 866 | 865 | 864 | 869 | 870 | 871 | 875 | 879 | 876 | 882 | 883 | 883 | 888 | 889 | 0   | 872 |
|    | 29 | *   | 890 | 897 | 896 | 890 | 888 | 890  | 889 | 881 | 876 | 875 | 877 | 875 | 873 | 870 | 871 | 867 | 869 | 872 | 873 | 878 | 876 | 873 | 875 | 878 | 0   | 879 |
|    | 30 |     | 882 | 876 | 882 | 889 | 889 | 887  | 885 | 884 | 886 | 883 | 884 | 880 | 863 | 833 | 832 | 853 | 863 | 865 | 867 | 870 | 882 | 874 | 864 | 878 | 0   | 873 |
| 31 |    | 880 | 881 | 870 | 861 | 862 | 862 | 856  | 852 | 866 | 870 | 871 | 864 | 867 | 866 | 861 | 859 | 873 | 867 | 871 | 871 | 874 | 877 | 877 | 880 | 0   | 868 |     |
| 3  |    | *   | 867 | 864 | 864 | 862 | 860 | 860  | 858 | 855 | 857 | 858 | 861 | 863 | 864 | 866 | 865 | 867 | 868 | 871 | 872 | 876 | 877 | 873 | 871 | 871 |     | 865 |
|    |    | *   | 878 | 875 | 874 | 871 | 867 | 866  | 865 | 864 | 864 | 866 | 869 | 870 | 868 | 868 | 868 | 867 | 868 | 871 | 873 | 879 | 880 | 875 | 877 | 880 |     | 871 |
|    | ** | 853 | 849 | 849 | 846 | 848 | 855 |      | 848 | 834 | 842 | 846 | 851 | 851 | 853 | 869 | 867 | 864 | 865 | 874 | 874 | 876 | 875 | 869 | 862 | 857 |     | 857 |

WATHEROO  
MARCH 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  | *  | 483 | 491 | 493 | 488 | 469 | 452 | 442 | 439 | 441 | 443 | 447 | 448 | 447 | 451 | 454 | 455 | 453 | 453 | 457 | 460 | 463 | 460 | 431 | 462 | 0 | 458 |
|    |    | 481 | 486 | 490 | 485 | 472 | 453 | 435 | 432 | 426 | 431 | 447 | 446 | 447 | 448 | 451 | 453 | 453 | 451 | 439 | 447 | 459 | 461 | 468 | 463 | 0 | 455 |
|    |    | 475 | 484 | 478 | 461 | 459 | 452 | 446 | 439 | 432 | 436 | 440 | 441 | 442 | 449 | 455 | 461 | 465 | 459 | 459 | 459 | 458 | 458 | 459 | 457 | 0 | 455 |
|    |    | 483 | 480 | 472 | 462 | 454 | 448 | 441 | 434 | 438 | 441 | 441 | 451 | 461 | 465 | 462 | 452 | 453 | 454 | 455 | 460 | 460 | 444 | 471 | 483 | 0 | 456 |
|    |    | 484 | 484 | 483 | 462 | 450 | 432 | 425 | 421 | 421 | 433 | 441 | 473 | 466 | 462 | 464 | 470 | 460 | 453 | 456 | 456 | 459 | 463 | 470 | 467 | 0 | 456 |
| 6  |    | 482 | 487 | 471 | 454 | 433 | 421 | 423 | 428 | 436 | 438 | 444 | 442 | 442 | 448 | 449 | 451 | 451 | 460 | 456 | 460 | 455 | 449 | 471 | 488 | 0 | 452 |
| 7  |    | 499 | 504 | 488 | 462 | 451 | 441 | 432 | 432 | 436 | 454 | 452 | 459 | 459 | 460 | 461 | 444 | 459 | 446 | 451 | 454 | 448 | 449 | 454 | 453 | 0 | 456 |
| 8  |    | 474 | 488 | 485 | 473 | 455 | 441 | 436 | 431 | 438 | 448 | 454 | 460 | 452 | 448 | 450 | 450 | 450 | 452 | 451 | 452 | 459 | 457 | 458 | 453 | 0 | 455 |
| 9  |    | 483 | 492 | 483 | 466 | 442 | 422 | 419 | 422 | 430 | 450 | 448 | 448 | 449 | 453 | 467 | 457 | 450 | 441 | 469 | 464 | 460 | 460 | 480 | 490 | 0 | 456 |
| 10 |    | 493 | 489 | 482 | 470 | 454 | 440 | 429 | 424 | 432 | 437 | 443 | 447 | 462 | 459 | 456 | 459 | 457 | 451 | 451 | 434 | 450 | 461 | 473 | 477 | 0 | 455 |
| 11 |    | 492 | 487 | 484 | 480 | 460 | 439 | 423 | 420 | 419 | 429 | 459 | 452 | 464 | 470 | 471 | 479 | 470 | 466 | 456 | 448 | 459 | 446 | 445 | 472 | 0 | 458 |
| 12 |    | 489 | 492 | 487 | 472 | 458 | 451 | 441 | 430 | 423 | 427 | 438 | 446 | 461 | 460 | 453 | 454 | 466 | 460 | 457 | 436 | 433 | 446 | 451 | 461 | 0 | 454 |
| 13 | *  | 476 | 493 | 488 | 477 | 468 | 454 | 440 | 429 | 427 | 432 | 440 | 446 | 455 | 458 | 472 | 487 | 455 | 461 | 456 | 430 | 452 | 466 | 473 | 466 | 0 | 458 |
| 14 | ** | 482 | 463 | 461 | 443 | 430 | 414 | 413 | 416 | 428 | 438 | 449 | 454 | 456 | 461 | 464 | 452 | 470 | 467 | 452 | 436 | 450 | 460 | 462 | 488 | 1 | 450 |
| 15 | ** | 480 | 486 | 479 | 463 | 442 | 439 | 430 | 440 | 433 | 442 | 478 | 446 | 480 | 458 | 479 | 461 | 462 | 455 | 439 | 436 | 450 | 454 | 463 | 464 | 1 | 457 |
| 16 |    | 476 | 468 | 454 | 451 | 459 | 452 | 439 | 437 | 430 | 434 | 435 | 449 | 466 | 492 | 469 | 470 | 461 | 452 | 460 | 441 | 441 | 452 | 461 | 451 | 1 | 454 |
| 17 |    | 473 | 480 | 471 | 458 | 457 | 454 | 449 | 439 | 438 | 439 | 446 | 447 | 448 | 452 | 453 | 477 | 503 | 485 | 462 | 458 | 436 | 463 | 456 | 451 | 0 | 458 |
| 18 |    | 460 | 441 | 431 | 442 | 445 | 451 | 449 | 450 | 444 | 456 | 456 | 450 | 454 | 462 | 462 | 470 | 460 | 464 | 463 | 442 | 455 | 467 | 469 | 472 | 1 | 455 |
| 19 |    | 471 | 472 | 467 | 458 | 444 | 434 | 435 | 435 | 435 | 437 | 438 | 440 | 444 | 468 | 464 | 461 | 465 | 455 | 453 | 456 | 458 | 461 | 463 | 473 | 0 | 454 |
| 20 | ** | 475 | 470 | 461 | 446 | 440 | 431 | 430 | 423 | 434 | 441 | 446 | 473 | 456 | 455 | 451 | 459 | 446 | 450 | 451 | 442 | 467 | 468 | 469 | 467 | 0 | 452 |
| 21 |    | 467 | 468 | 460 | 446 | 435 | 429 | 432 | 439 | 451 | 456 | 455 | 452 | 451 | 450 | 449 | 447 | 448 | 445 | 456 | 444 | 441 | 464 | 475 | 478 | 0 | 452 |
| 22 |    | 479 | 468 | 456 | 445 | 440 | 440 | 439 | 441 | 448 | 453 | 459 | 450 | 449 | 450 | 453 | 454 | 449 | 454 | 453 | 446 | 394 | 469 | 480 | 496 | 0 | 453 |
| 23 | ** | 477 | 440 | 438 | 433 | 438 | 433 | 429 | 431 | 439 | 456 | 455 | 469 | 477 | 498 | 482 | 474 | 456 | 446 | 450 | 401 | 431 | 456 | 452 | 414 | 1 | 449 |
| 24 | ** | 443 | 463 | 464 | 454 | 449 | 441 | 430 | 440 | 451 | 453 | 443 | 448 | 454 | 472 | 463 | 468 | 456 | 440 | 438 | 463 | 458 | 459 | 459 | 451 | 1 | 453 |
| 25 |    | 461 | 479 | 470 | 459 | 442 | 423 | 420 | 425 | 452 | 449 | 451 | 462 | 461 | 466 | 460 | 454 | 451 | 452 | 450 | 428 | 433 | 456 | 465 | 483 | 0 | 452 |
| 26 |    | 505 | 510 | 494 | 472 | 444 | 428 | 425 | 424 | 434 | 457 | 454 | 460 | 487 | 465 | 456 | 456 | 438 | 454 | 450 | 446 | 434 | 433 | 462 | 480 | 0 | 457 |
| 27 | *  | 491 | 489 | 475 | 464 | 446 | 430 | 421 | 430 | 442 | 446 | 470 | 460 | 459 | 457 | 456 | 456 | 455 | 453 | 452 | 449 | 442 | 449 | 459 | 474 | 0 | 455 |
| 28 | *  | 482 | 488 | 490 | 484 | 470 | 452 | 448 | 429 | 434 | 442 | 449 | 451 | 453 | 454 | 455 | 456 | 460 | 456 | 456 | 453 | 453 | 449 | 458 | 461 | 0 | 458 |
| 29 | *  | 466 | 471 | 477 | 470 | 451 | 439 | 429 | 431 | 437 | 441 | 443 | 447 | 449 | 463 | 460 | 461 | 460 | 455 | 451 | 447 | 452 | 454 | 451 | 452 | 0 | 452 |
| 30 |    | 468 | 472 | 459 | 451 | 444 | 438 | 432 | 432 | 431 | 435 | 443 | 448 | 446 | 475 | 472 | 463 | 455 | 455 | 457 | 454 | 457 | 470 | 450 | 440 | 0 | 452 |
| 31 |    | 466 | 473 | 472 | 459 | 441 | 430 | 433 | 440 | 440 | 441 | 449 | 453 | 461 | 460 | 461 | 467 | 470 | 458 | 456 | 460 | 440 | 440 | 454 | 470 | 0 | 454 |
|    | *  | 478 | 479 | 473 | 462 | 450 | 439 | 433 | 432 | 435 | 442 | 449 | 452 | 457 | 461 | 460 | 461 | 458 | 455 | 454 | 447 | 449 | 456 | 462 | 466 |   | 455 |
|    | *  | 480 | 486 | 485 | 477 | 461 | 445 | 436 | 432 | 436 | 441 | 450 | 450 | 453 | 457 | 459 | 463 | 457 | 456 | 454 | 448 | 452 | 456 | 454 | 463 |   | 456 |
|    | ** | 471 | 464 | 461 | 448 | 440 | 432 | 426 | 430 | 437 | 446 | 454 | 458 | 465 | 469 | 468 | 463 | 458 | 452 | 446 | 436 | 451 | 459 | 461 | 457 |   | 452 |

WATHEROO  
MARCH 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0354-3-3

|    |    | 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  | *   | 155 | 153 | 143 | 131 | 120 | 115  | 117 | 124 | 134 | 140 | 140 | 143 | 143 | 144 | 144 | 144 | 142 | 142 | 142 | 142 | 142 | 143 | 138 | 130 | 139 | 0   | 138 |
|    | 2  |     | 144 | 140 | 133 | 116 | 120 | 118  | 114 | 121 | 129 | 141 | 153 | 150 | 146 | 146 | 146 | 145 | 144 | 137 | 134 | 138 | 142 | 145 | 147 | 144 | 0   | 137 |     |
|    | 3  |     | 146 | 143 | 129 | 115 | 116 | 121  | 122 | 126 | 135 | 143 | 146 | 147 | 150 | 147 | 151 | 145 | 145 | 142 | 142 | 141 | 140 | 143 | 148 | 151 | 0   | 139 |     |
|    | 4  |     | 144 | 139 | 128 | 123 | 122 | 123  | 127 | 129 | 140 | 151 | 151 | 159 | 161 | 151 | 146 | 143 | 142 | 141 | 138 | 138 | 141 | 135 | 150 | 154 | 0   | 141 |     |
|    | 5  |     | 154 | 145 | 135 | 119 | 117 | 111  | 114 | 123 | 133 | 146 | 150 | 167 | 159 | 162 | 157 | 153 | 143 | 139 | 140 | 142 | 143 | 147 | 152 | 153 | 0   | 142 |     |
|    | 6  |     | 158 | 146 | 129 | 124 | 116 | 120  | 129 | 136 | 145 | 149 | 149 | 149 | 152 | 153 | 153 | 150 | 149 | 149 | 141 | 143 | 142 | 142 | 152 | 158 | 0   | 143 |     |
|    | 7  |     | 154 | 145 | 128 | 113 | 108 | 112  | 121 | 130 | 138 | 155 | 156 | 156 | 153 | 158 | 157 | 141 | 147 | 137 | 139 | 140 | 138 | 138 | 143 | 142 | 0   | 140 |     |
|    | 8  |     | 154 | 154 | 146 | 131 | 119 | 118  | 124 | 131 | 141 | 150 | 152 | 153 | 151 | 148 | 149 | 148 | 147 | 145 | 144 | 143 | 143 | 144 | 147 | 147 | 0   | 143 |     |
|    | 9  |     | 153 | 144 | 124 | 116 | 120 | 124  | 131 | 136 | 141 | 158 | 156 | 154 | 156 | 156 | 157 | 149 | 145 | 131 | 145 | 141 | 140 | 144 | 149 | 148 | 0   | 142 |     |
|    | 10 |     | 147 | 140 | 124 | 113 | 112 | 113  | 120 | 126 | 139 | 145 | 146 | 147 | 156 | 157 | 153 | 148 | 152 | 149 | 143 | 140 | 145 | 149 | 152 | 151 | 0   | 140 |     |
| 72 | 11 |     | 154 | 146 | 138 | 133 | 127 | 122  | 124 | 135 | 141 | 148 | 161 | 153 | 164 | 165 | 164 | 160 | 153 | 149 | 145 | 138 | 146 | 142 | 142 | 151 | 0   | 146 |     |
|    | 12 |     | 152 | 147 | 138 | 130 | 130 | 135  | 140 | 139 | 140 | 144 | 147 | 150 | 160 | 162 | 152 | 151 | 152 | 151 | 150 | 141 | 137 | 142 | 142 | 148 | 0   | 145 |     |
|    | 13 | *   | 153 | 154 | 144 | 134 | 129 | 126  | 125 | 131 | 135 | 140 | 146 | 147 | 154 | 155 | 163 | 166 | 147 | 146 | 142 | 130 | 141 | 148 | 150 | 142 | 0   | 144 |     |
|    | 14 | **  | 144 | 134 | 129 | 118 | 112 | 116  | 136 | 152 | 158 | 161 | 164 | 162 | 162 | 158 | 151 | 150 | 161 | 147 | 140 | 133 | 144 | 146 | 150 | 161 | 1   | 145 |     |
|    | 15 | **  | 154 | 147 | 131 | 123 | 122 | 123  | 128 | 147 | 147 | 155 | 171 | 152 | 168 | 150 | 159 | 150 | 149 | 144 | 140 | 141 | 143 | 149 | 155 | 154 | 1   | 146 |     |
|    | 16 |     | 155 | 150 | 137 | 134 | 138 | 137  | 133 | 143 | 147 | 159 | 158 | 160 | 166 | 165 | 155 | 154 | 151 | 142 | 146 | 135 | 138 | 149 | 154 | 158 | 1   | 149 |     |
|    | 17 |     | 152 | 144 | 127 | 120 | 124 | 126  | 126 | 129 | 138 | 144 | 149 | 149 | 149 | 151 | 149 | 157 | 164 | 154 | 139 | 137 | 129 | 143 | 138 | 137 | 0   | 141 |     |
|    | 18 |     | 141 | 134 | 130 | 131 | 138 | 144* | 140 | 145 | 147 | 157 | 158 | 154 | 157 | 157 | 157 | 157 | 146 | 147 | 144 | 126 | 142 | 149 | 151 | 152 | 1   | 146 |     |
|    | 19 |     | 150 | 149 | 137 | 131 | 126 | 126  | 129 | 137 | 140 | 144 | 147 | 150 | 154 | 167 | 156 | 161 | 157 | 149 | 149 | 141 | 149 | 151 | 151 | 154 | 0   | 146 |     |
|    | 20 | **  | 148 | 145 | 144 | 135 | 133 | 130  | 134 | 138 | 151 | 155 | 153 | 168 | 152 | 151 | 151 | 151 | 141 | 138 | 139 | 135 | 149 | 152 | 155 | 154 | 0   | 146 |     |
|    | 21 |     | 150 | 148 | 144 | 135 | 129 | 130  | 136 | 143 | 153 | 157 | 158 | 154 | 152 | 152 | 150 | 149 | 148 | 142 | 146 | 139 | 140 | 149 | 157 | 159 | 0   | 147 |     |
|    | 22 |     | 158 | 151 | 141 | 138 | 139 | 142  | 143 | 145 | 148 | 152 | 156 | 151 | 150 | 155 | 154 | 150 | 147 | 149 | 147 | 142 | 114 | 143 | 157 | 164 | 0   | 147 |     |
|    | 23 | **  | 149 | 133 | 134 | 135 | 136 | 132  | 136 | 150 | 156 | 161 | 157 | 170 | 175 | 165 | 159 | 158 | 145 | 140 | 142 | 116 | 130 | 143 | 148 | 134 | 1   | 146 |     |
|    | 24 | **  | 146 | 152 | 148 | 138 | 132 | 134  | 134 | 149 | 156 | 162 | 157 | 156 | 156 | 160 | 154 | 155 | 150 | 139 | 132 | 147 | 146 | 146 | 145 | 147 | 1   | 148 |     |
|    | 25 |     | 158 | 163 | 156 | 148 | 143 | 136  | 140 | 150 | 165 | 159 | 155 | 156 | 157 | 156 | 155 | 151 | 148 | 149 | 147 | 133 | 137 | 151 | 156 | 163 | 0   | 151 |     |
|    | 26 |     | 166 | 158 | 143 | 129 | 123 | 127  | 136 | 143 | 152 | 163 | 157 | 160 | 166 | 153 | 151 | 152 | 140 | 150 | 149 | 143 | 141 | 142 | 156 | 159 | 0   | 148 |     |
|    | 27 | *   | 159 | 154 | 145 | 137 | 134 | 133  | 135 | 147 | 154 | 156 | 166 | 155 | 153 | 153 | 153 | 153 | 153 | 152 | 149 | 147 | 145 | 149 | 154 | 159 | 0   | 150 |     |
|    | 28 | *   | 159 | 160 | 153 | 138 | 126 | 124  | 127 | 134 | 141 | 147 | 151 | 153 | 154 | 153 | 152 | 152 | 153 | 148 | 149 | 146 | 146 | 145 | 147 | 148 | 0   | 146 |     |
|    | 29 | *   | 151 | 151 | 146 | 139 | 134 | 134  | 135 | 140 | 146 | 149 | 150 | 151 | 152 | 159 | 155 | 157 | 153 | 149 | 149 | 146 | 149 | 151 | 149 | 149 | 0   | 148 |     |
|    | 30 |     | 155 | 154 | 144 | 135 | 129 | 127  | 130 | 138 | 143 | 148 | 151 | 153 | 159 | 182 | 176 | 158 | 150 | 150 | 152 | 151 | 148 | 153 | 145 | 143 | 0   | 149 |     |
| 31 |    | 155 | 151 | 145 | 138 | 131 | 129 | 137  | 149 | 149 | 151 | 153 | 158 | 161 | 158 | 158 | 159 | 153 | 149 | 148 | 151 | 143 | 144 | 152 | 158 | 0   | 149 |     |     |
|    |    | *   | 152 | 148 | 138 | 129 | 126 | 126  | 130 | 138 | 145 | 151 | 154 | 154 | 156 | 156 | 154 | 152 | 149 | 145 | 144 | 140 | 141 | 146 | 149 | 151 |     | 145 |     |
|    |    | *   | 155 | 154 | 146 | 136 | 129 | 126  | 128 | 135 | 142 | 146 | 151 | 150 | 151 | 153 | 153 | 154 | 150 | 147 | 146 | 142 | 145 | 146 | 146 | 147 |     | 145 |     |
|    |    | **  | 148 | 142 | 137 | 130 | 127 | 127  | 134 | 147 | 154 | 159 | 160 | 162 | 163 | 157 | 155 | 153 | 149 | 142 | 139 | 134 | 142 | 147 | 151 | 150 |     | 146 |     |

WATHEROO  
MARCH 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0354-1-3

WATHEROO  
MARCH 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0354-2-3

WATHEROO  
MARCH 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0354-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | *  | 044  | -027 | 016  | -031 | -007 | -024 | 007  | -010 |
| 2  |    | 088  | -111 | 046  | 014  | 010  | 034  | -009 | 044  |
| 3  |    | 032  | -038 | 007  | 001  | 017  | -021 | -010 | 005  |
| 4  |    | 128  | -033 | -055 | -006 | 012  | -059 | -005 | 033  |
| 5  |    | 021  | -086 | 043  | -031 | -029 | 024  | 014  | -033 |
| 6  |    | -003 | -030 | -007 | -010 | -007 | -007 | 001  | -007 |
| 7  |    | 090  | -091 | -002 | -001 | 009  | 003  | 023  | -014 |
| 8  |    | -010 | -135 | 005  | -023 | 005  | -009 | 017  | 016  |
| 9  |    | 047  | -106 | -045 | 055  | 002  | 066  | 023  | 027  |
| 10 |    | 052  | -061 | 001  | 009  | -037 | -003 | -011 | -045 |
| 11 |    | 087  | -047 | 037  | -003 | -004 | 031  | 016  | -003 |
| 12 |    | 054  | -060 | 020  | -025 | -005 | 016  | -020 | -051 |
| 13 | *  | 035  | 016  | 026  | -023 | -049 | 054  | -010 | 044  |
| 14 | ** | 021  | -081 | -013 | 081  | -029 | -024 | -027 | -016 |
| 15 | ** | 008  | -138 | -004 | 002  | -062 | -003 | -016 | -013 |
| 16 |    | 010  | -085 | -013 | 025  | -036 | -022 | -001 | 057  |
| 17 |    | -011 | -023 | -016 | 005  | -031 | -059 | -032 | -034 |
| 18 |    | 085  | -099 | -007 | 011  | -071 | -016 | 003  | -013 |
| 19 |    | -008 | 080  | 035  | 011  | -021 | -001 | -004 | 010  |
| 20 | ** | -025 | -126 | -044 | 018  | -010 | 023  | 054  | 014  |
| 21 |    | 005  | -112 | -005 | -027 | -021 | -013 | -012 | 023  |
| 22 |    | -022 | -134 | -024 | -083 | -045 | -035 | -039 | 001  |
| 23 | ** | 050  | -174 | -076 | -068 | -095 | -092 | -032 | -003 |
| 24 | ** | 032  | -211 | 011  | -024 | 028  | -011 | 045  | 025  |
| 25 |    | -003 | -165 | 074  | -068 | -015 | -021 | 027  | 003  |
| 26 |    | 013  | -122 | 036  | -007 | 030  | -018 | 029  | -011 |
| 27 | *  | 026  | -154 | 050  | -035 | 014  | -023 | 024  | 003  |
| 28 | *  | 087  | -088 | 032  | -005 | -005 | 007  | -008 | -025 |
| 29 | *  | 068  | 085  | -003 | 029  | -015 | 022  | 012  | 025  |
| 30 |    | 080  | 143  | -039 | -083 | -029 | 072  | 020  | -045 |
| 31 |    | 060  | -040 | 054  | -022 | 007  | 031  | 007  | -009 |
|    | *  | 037  | -072 | 004  | -009 | -016 | -003 | 002  | 000  |
|    |    | 053  | -033 | 024  | -012 | -012 | 008  | 005  | 006  |

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | *  | 138  | 022  | 029  | 125  | -048 | 087  | -040 | 044  |
| 2  |    | 178  | 013  | 077  | 132  | -043 | 026  | -031 | -030 |
| 3  |    | 130  | -046 | 008  | 099  | 008  | 035  | -006 | 016  |
| 4  |    | 121  | -041 | 098  | 076  | 001  | 018  | 042  | 029  |
| 5  |    | 106  | -114 | 149  | 127  | -037 | 034  | 001  | 004  |
| 6  |    | 159  | -100 | 125  | 047  | 052  | 084  | 008  | 026  |
| 7  |    | 100  | -004 | 139  | 115  | -005 | 104  | -002 | 058  |
| 8  |    | 107  | -005 | 088  | 077  | -045 | 085  | -031 | 007  |
| 9  |    | 169  | -105 | 164  | 066  | 007  | 072  | -039 | 021  |
| 10 |    | 148  | -041 | 150  | 131  | 019  | 030  | 002  | -013 |
| 11 |    | 089  | -096 | 114  | 212  | -019 | 071  | -002 | -006 |
| 12 |    | 120  | -011 | 076  | 196  | 009  | 058  | 054  | 016  |
| 13 | *  | 133  | -041 | 078  | 189  | 012  | -010 | -036 | -033 |
| 14 | ** | 073  | -160 | 169  | 075  | 056  | 051  | 023  | -035 |
| 15 | ** | 034  | -037 | 160  | 119  | 021  | 039  | -021 | -002 |
| 16 |    | 012  | -074 | 070  | 144  | 007  | -054 | 033  | 030  |
| 17 |    | 060  | -093 | -035 | 134  | 065  | 067  | 026  | -048 |
| 18 |    | -012 | -088 | 027  | -020 | 057  | -054 | 027  | -054 |
| 19 |    | 100  | -100 | 070  | 083  | 033  | 001  | -027 | 022  |
| 20 | ** | 079  | -091 | 145  | 022  | -016 | 013  | 005  | -014 |
| 21 |    | 069  | -041 | 128  | -021 | 052  | 038  | -003 | -015 |
| 22 |    | 072  | -013 | 140  | 021  | 120  | 024  | 067  | -059 |
| 23 | ** | -161 | -075 | 147  | 108  | 025  | -048 | -011 | -009 |
| 24 | ** | 006  | -055 | 057  | 046  | -016 | -020 | -094 | 021  |
| 25 |    | 041  | -053 | 176  | 080  | 035  | 053  | -016 | -023 |
| 26 |    | 099  | -001 | 235  | 153  | 008  | 128  | 040  | 061  |
| 27 | *  | 077  | -037 | 166  | 088  | -019 | 107  | 008  | -002 |
| 28 | *  | 129  | 010  | 053  | 142  | -034 | 065  | -003 | -003 |
| 29 | *  | 066  | -051 | 058  | 118  | -014 | 043  | -048 | 007  |
| 30 |    | 041  | -110 | 056  | 089  | -017 | -004 | -041 | 045  |
| 31 |    | 031  | -078 | 076  | 105  | 035  | 066  | 005  | 021  |
|    | *  | 081  | -055 | 102  | 100  | 010  | 038  | -003 | 003  |
|    |    | 108  | -020 | 077  | 133  | -013 | 059  | -024 | 003  |

|    |    | A1   | B1   | A2  | B2   | A3  | B3   | A4   | B4   |
|----|----|------|------|-----|------|-----|------|------|------|
| 1  | *  | 000  | -080 | 078 | 022  | 014 | 068  | -016 | 040  |
| 2  |    | -032 | -100 | 111 | -019 | 011 | 018  | -008 | -020 |
| 3  |    | -033 | -105 | 095 | -024 | 038 | 011  | 015  | 005  |
| 4  |    | -065 | -066 | 111 | -032 | 015 | 011  | 030  | -009 |
| 5  |    | -056 | -125 | 163 | -006 | 012 | 013  | 003  | 009  |
| 6  |    | -036 | -092 | 100 | -027 | 070 | 016  | 017  | 014  |
| 7  |    | -086 | -096 | 135 | -031 | 044 | 036  | 005  | 031  |
| 8  |    | -021 | -076 | 102 | -006 | 028 | 058  | -012 | 017  |
| 9  |    | -076 | -073 | 111 | -043 | 042 | -002 | 010  | 016  |
| 10 |    | -054 | -143 | 106 | -033 | 048 | 002  | 008  | 006  |
| 11 |    | -080 | -094 | 106 | 027  | 026 | 019  | -008 | 009  |
| 12 |    | -054 | -062 | 053 | 022  | 028 | 003  | 039  | 024  |
| 13 | *  | -030 | -084 | 091 | 057  | 036 | -002 | -027 | 002  |
| 14 | ** | -118 | -073 | 106 | -076 | 084 | 013  | 008  | -007 |
| 15 | ** | -074 | -068 | 121 | -049 | 049 | 013  | 005  | -002 |
| 16 |    | -065 | -035 | 108 | -002 | 030 | -006 | 018  | -014 |
| 17 |    | -072 | -097 | 055 | 024  | 061 | 030  | 019  | -021 |
| 18 |    | -086 | -028 | 054 | -019 | 033 | -037 | 007  | -041 |
| 19 |    | -038 | -110 | 078 | 014  | 038 | -008 | -006 | 010  |
| 20 | ** | -038 | -027 | 103 | -034 | 012 | 001  | -019 | -018 |
| 21 |    | -032 | -031 | 088 | -034 | 045 | 019  | -006 | -010 |
| 22 |    | -027 | -003 | 070 | 015  | 069 | 009  | 048  | -020 |
| 23 | ** | -150 | 000  | 101 | 005  | 025 | -017 | 002  | -016 |
| 24 | ** | -067 | -013 | 078 | -013 | 025 | 016  | -046 | 019  |
| 25 |    | -015 | 015  | 088 | 007  | 055 | 030  | -012 | 001  |
| 26 |    | -041 | -042 | 123 | -033 | 054 | 045  | 030  | 028  |
| 27 | *  | -029 | -043 | 077 | -025 | 046 | 040  | 002  | -006 |
| 28 | *  | -008 | -075 | 089 | 023  | 021 | 057  | -009 | 025  |
| 29 | *  | -026 | -065 | 053 | 009  | 019 | 010  | -017 | 010  |
| 30 |    | -068 | -107 | 088 | 038  | 008 | -007 | -027 | 061  |
| 31 |    | -046 | -060 | 076 | 002  | 039 | 016  | 006  | 022  |
|    | *  | -051 | -066 | 092 | -009 | 037 | 017  | 002  | 006  |
|    |    | -019 | -069 | 077 | 017  | 026 | 035  | -014 | 013  |

WATHEROO  
 APRIL 1954  
 HORIZONTAL INTENSITY  
 24000 PLUS TABULAR VALUES IN GAMMAS

2-0454-1-3

|    |    |     | 1   | 2    | 3   | 4   | 5   | 6   | 7   | 8   | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 74 | 1  | *   | 883 | 883  | 881 | 881 | 881 | 878 | 876 | 873 | 874  | 876 | 875 | 876 | 876 | 874 | 872 | 870 | 879 | 884 | 878 | 875 | 873 | 871 | 875 | 878 | 0   | 877 |     |
|    | 2  |     | 872 | 871  | 866 | 863 | 861 | 862 | 863 | 865 | 869  | 867 | 861 | 860 | 852 | 843 | 841 | 852 | 865 | 874 | 874 | 870 | 870 | 885 | 884 | 870 | 0   | 865 |     |
|    | 3  |     | 866 | 868  | 862 | 852 | 841 | 842 | 842 | 845 | 844  | 846 | 849 | 857 | 855 | 862 | 863 | 860 | 863 | 866 | 870 | 873 | 866 | 871 | 858 | 873 | 0   | 858 |     |
|    | 4  |     | 874 | 871  | 862 | 846 | 842 | 832 | 845 | 854 | 855  | 855 | 860 | 864 | 865 | 866 | 867 | 866 | 869 | 875 | 872 | 873 | 878 | 882 | 875 | 878 | 0   | 864 |     |
|    | 5  |     | 877 | 880  | 880 | 877 | 862 | 855 | 854 | 850 | 840  | 853 | 856 | 856 | 860 | 862 | 864 | 869 | 869 | 871 | 872 | 874 | 876 | 878 | 878 | 877 | 0   | 866 |     |
|    | 6  |     | 877 | 877  | 875 | 874 | 872 | 872 | 874 | 870 | 870  | 873 | 871 | 873 | 873 | 872 | 879 | 875 | 874 | 875 | 875 | 874 | 876 | 880 | 878 | 875 | 0   | 874 |     |
|    | 7  | *   | 873 | 872  | 870 | 871 | 869 | 865 | 862 | 861 | 864  | 873 | 873 | 877 | 875 | 873 | 872 | 871 | 871 | 870 | 865 | 871 | 875 | 878 | 878 | 880 | 882 | 0   | 872 |
|    | 8  |     | 881 | 881  | 883 | 875 | 869 | 869 | 874 | 876 | 878  | 879 | 876 | 871 | 867 | 868 | 872 | 879 | 882 | 880 | 879 | 878 | 885 | 879 | 881 | 869 | 0   | 876 |     |
|    | 9  |     | 873 | 859  | 866 | 866 | 858 | 855 | 855 | 860 | 859  | 864 | 875 | 878 | 879 | 869 | 859 | 853 | 861 | 877 | 875 | 873 | 875 | 876 | 876 | 880 | 0   | 868 |     |
|    | 10 |     | 883 | 882  | 877 | 873 | 872 | 867 | 869 | 870 | 875  | 881 | 881 | 872 | 877 | 883 | 881 | 877 | 875 | 882 | 872 | 872 | 875 | 874 | 875 | 880 | 0   | 876 |     |
|    | 11 | **  | 873 | 875  | 876 | 874 | 872 | 870 | 868 | 869 | 877  | 880 | 876 | 877 | 875 | 872 | 871 | 873 | 873 | 874 | 899 | 868 | 877 | 856 | 854 | 845 | 0   | 872 |     |
|    | 12 | **  | 840 | 793  | 792 | 785 | 781 | 799 | 792 | 811 | 813  | 814 | 805 | 784 | 786 | 815 | 832 | 841 | 840 | 842 | 849 | 853 | 855 | 859 | 853 | 863 | 1   | 821 |     |
|    | 13 |     | 860 | 858  | 846 | 839 | 832 | 827 | 828 | 834 | 845  | 850 | 853 | 854 | 858 | 858 | 880 | 859 | 853 | 855 | 853 | 856 | 858 | 856 | 857 | 864 | 0   | 851 |     |
|    | 14 |     | 868 | 867  | 856 | 853 | 839 | 844 | 845 | 849 | 855  | 856 | 864 | 860 | 861 | 873 | 877 | 868 | 863 | 864 | 868 | 869 | 872 | 873 | 874 | 877 | 0   | 862 |     |
|    | 15 | **  | 869 | 863  | 867 | 863 | 856 | 850 | 845 | 843 | 860  | 865 | 867 | 865 | 857 | 861 | 862 | 858 | 859 | 865 | 873 | 894 | 870 | 856 | 866 | 872 | 0   | 863 |     |
|    | 16 |     | 872 | 865  | 863 | 858 | 856 | 858 | 856 | 852 | 858  | 866 | 870 | 869 | 873 | 869 | 867 | 868 | 869 | 871 | 871 | 876 | 883 | 875 | 875 | 875 | 0   | 867 |     |
|    | 17 |     | 877 | 875  | 875 | 869 | 861 | 855 | 852 | 856 | 868  | 874 | 875 | 872 | 869 | 869 | 868 | 868 | 871 | 888 | 889 | 871 | 873 | 873 | 873 | 871 | 0   | 871 |     |
|    | 18 |     | 874 | 868  | 874 | 873 | 872 | 870 | 860 | 868 | 874  | 876 | 869 | 868 | 867 | 871 | 865 | 865 | 874 | 879 | 872 | 877 | 884 | 877 | 872 | 872 | 0   | 872 |     |
|    | 19 |     | 871 | 868  | 859 | 856 | 860 | 859 | 864 | 868 | 872  | 873 | 875 | 871 | 875 | 873 | 868 | 869 | 865 | 865 | 867 | 869 | 870 | 872 | 877 | 880 | 0   | 869 |     |
|    | 20 | **  | 879 | 883  | 872 | 856 | 854 | 852 | 849 | 848 | 853* | 863 | 866 | 869 | 872 | 875 | 866 | 866 | 870 | 886 | 894 | 873 | 862 | 861 | 865 | 865 | 0   | 867 |     |
|    | 21 |     | 863 | 866* | 857 | 855 | 846 | 843 | 829 | 834 | 854  | 869 | 872 | 861 | 855 | 856 | 859 | 863 | 869 | 879 | 869 | 869 | 869 | 868 | 869 | 870 | 0   | 860 |     |
|    | 22 |     | 875 | 874  | 862 | 863 | 854 | 844 | 848 | 855 | 860  | 868 | 873 | 871 | 869 | 878 | 879 | 878 | 877 | 875 | 875 | 877 | 879 | 881 | 883 | 886 | 0   | 870 |     |
|    | 23 | **  | 880 | 877  | 869 | 867 | 872 | 869 | 867 | 858 | 858  | 860 | 861 | 845 | 854 | 856 | 864 | 863 | 868 | 864 | 869 | 870 | 863 | 869 | 870 | 872 | 0   | 865 |     |
|    | 24 |     | 877 | 877  | 857 | 851 | 858 | 859 | 858 | 862 | 861  | 851 | 850 | 863 | 866 | 867 | 869 | 868 | 867 | 867 | 870 | 873 | 874 | 875 | 873 | 868 | 0   | 865 |     |
|    | 25 | *   | 877 | 874  | 875 | 869 | 862 | 856 | 847 | 848 | 859  | 864 | 868 | 872 | 874 | 876 | 875 | 873 | 873 | 873 | 874 | 876 | 875 | 877 | 882 | 885 | 0   | 870 |     |
|    | 26 |     | 881 | 869  | 852 | 844 | 838 | 836 | 839 | 844 | 850  | 859 | 863 | 866 | 868 | 874 | 888 | 870 | 866 | 870 | 873 | 877 | 882 | 878 | 876 | 874 | 0   | 864 |     |
|    | 27 |     | 868 | 865  | 849 | 858 | 852 | 845 | 826 | 818 | 826  | 846 | 852 | 859 | 853 | 852 | 856 | 861 | 867 | 865 | 866 | 868 | 871 | 870 | 867 | 871 | 0   | 855 |     |
|    | 28 | *   | 870 | 873  | 872 | 869 | 862 | 861 | 861 | 863 | 869  | 870 | 870 | 867 | 867 | 871 | 872 | 870 | 872 | 874 | 878 | 884 | 885 | 887 | 886 | 886 | 0   | 872 |     |
|    | 29 | *   | 880 | 885  | 881 | 875 | 867 | 862 | 862 | 864 | 873  | 881 | 880 | 877 | 875 | 877 | 876 | 878 | 879 | 877 | 882 | 885 | 882 | 887 | 889 | 889 | 0   | 878 |     |
|    | 30 |     | 883 | 877  | 872 | 868 | 855 | 845 | 845 | 845 | 853  | 869 | 861 | 848 | 846 | 855 | 860 | 864 | 867 | 870 | 873 | 878 | 879 | 879 | 877 | 883 | 0   | 865 |     |
|    |    | *   | 873 | 870  | 865 | 861 | 856 | 853 | 852 | 854 | 859  | 864 | 865 | 863 | 863 | 866 | 867 | 867 | 868 | 872 | 873 | 873 | 874 | 873 | 873 | 874 |     | 866 |     |
|    | ** | 877 | 877 | 876  | 873 | 868 | 864 | 864 | 862 | 862 | 868  | 873 | 874 | 873 | 873 | 874 | 873 | 872 | 875 | 875 | 877 | 879 | 879 | 880 | 882 | 884 |     | 874 |     |
|    |    | 868 | 858 | 855  | 849 | 847 | 848 | 848 | 844 | 846 | 852  | 856 | 855 | 848 | 849 | 856 | 859 | 860 | 862 | 866 | 877 | 872 | 865 | 860 | 862 | 863 |     | 857 |     |

WATHEROO  
APRIL 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 75 | 1  | *   | 483 | 481 | 473 | 455 | 438 | 427 | 424 | 429 | 439  | 441 | 448 | 449 | 450 | 450 | 451 | 456 | 464 | 461 | 456 | 457 | 460 | 455 | 449 | 472 | 0   | 453 |
|    | 2  |     | 484 | 492 | 485 | 472 | 453 | 440 | 438 | 438 | 439  | 443 | 454 | 451 | 465 | 478 | 489 | 466 | 451 | 451 | 456 | 459 | 450 | 452 | 460 | 464 | 0   | 460 |
|    | 3  |     | 491 | 495 | 487 | 470 | 450 | 432 | 429 | 431 | 456  | 453 | 469 | 454 | 461 | 467 | 472 | 462 | 454 | 452 | 453 | 462 | 446 | 465 | 452 | 460 | 0   | 459 |
|    | 4  |     | 483 | 492 | 479 | 461 | 443 | 446 | 435 | 439 | 441  | 450 | 468 | 459 | 456 | 457 | 458 | 456 | 452 | 450 | 451 | 452 | 446 | 429 | 453 | 463 | 0   | 455 |
|    | 5  |     | 477 | 486 | 484 | 467 | 451 | 441 | 433 | 431 | 453  | 443 | 456 | 458 | 459 | 459 | 458 | 454 | 453 | 452 | 452 | 453 | 453 | 456 | 462 | 474 | 0   | 457 |
|    | 6  |     | 484 | 490 | 479 | 459 | 444 | 433 | 430 | 431 | 439  | 442 | 451 | 452 | 452 | 461 | 459 | 453 | 453 | 454 | 454 | 455 | 456 | 462 | 468 | 475 | 0   | 456 |
|    | 7  | *   | 486 | 490 | 487 | 471 | 453 | 439 | 429 | 426 | 431  | 442 | 450 | 451 | 453 | 452 | 452 | 453 | 451 | 451 | 440 | 440 | 458 | 462 | 463 | 472 | 0   | 454 |
|    | 8  |     | 484 | 491 | 488 | 472 | 447 | 428 | 420 | 426 | 440  | 447 | 450 | 452 | 455 | 452 | 453 | 454 | 454 | 456 | 460 | 453 | 446 | 460 | 466 | 470 | 0   | 455 |
|    | 9  |     | 482 | 491 | 486 | 475 | 458 | 441 | 430 | 428 | 430  | 437 | 451 | 453 | 456 | 460 | 471 | 461 | 462 | 439 | 447 | 453 | 456 | 459 | 459 | 471 | 0   | 457 |
|    | 10 |     | 485 | 486 | 479 | 471 | 459 | 450 | 439 | 441 | 443  | 449 | 452 | 462 | 455 | 454 | 455 | 459 | 476 | 472 | 460 | 459 | 461 | 463 | 459 | 475 | 0   | 461 |
|    | 11 | **  | 481 | 477 | 472 | 465 | 458 | 447 | 443 | 441 | 439  | 443 | 452 | 466 | 456 | 457 | 459 | 462 | 462 | 459 | 477 | 471 | 480 | 465 | 460 | 466 | 0   | 461 |
|    | 12 | **  | 407 | 445 | 451 | 448 | 437 | 433 | 435 | 422 | 432  | 435 | 461 | 476 | 519 | 479 | 460 | 459 | 456 | 459 | 449 | 453 | 457 | 429 | 451 | 456 | 1   | 450 |
|    | 13 |     | 462 | 476 | 481 | 482 | 473 | 459 | 443 | 433 | 434  | 446 | 453 | 459 | 471 | 478 | 483 | 463 | 472 | 469 | 458 | 454 | 452 | 431 | 438 | 466 | 0   | 460 |
|    | 14 |     | 474 | 477 | 474 | 470 | 460 | 451 | 441 | 435 | 434  | 456 | 452 | 452 | 467 | 462 | 466 | 462 | 455 | 452 | 451 | 451 | 453 | 459 | 460 | 462 | 0   | 457 |
|    | 15 | **  | 474 | 473 | 478 | 472 | 460 | 445 | 429 | 432 | 431  | 443 | 449 | 459 | 462 | 492 | 484 | 472 | 458 | 455 | 454 | 447 | 433 | 442 | 461 | 466 | 0   | 457 |
|    | 16 |     | 477 | 486 | 485 | 475 | 459 | 442 | 434 | 433 | 439  | 443 | 450 | 451 | 453 | 456 | 458 | 456 | 456 | 453 | 454 | 442 | 452 | 459 | 459 | 466 | 0   | 456 |
|    | 17 |     | 472 | 475 | 474 | 469 | 456 | 448 | 438 | 437 | 438  | 445 | 451 | 451 | 458 | 457 | 457 | 456 | 454 | 453 | 458 | 460 | 457 | 460 | 462 | 457 | 0   | 456 |
|    | 18 |     | 459 | 464 | 472 | 464 | 453 | 437 | 433 | 433 | 439  | 450 | 457 | 474 | 460 | 459 | 460 | 460 | 448 | 448 | 454 | 430 | 442 | 435 | 460 | 466 | 0   | 452 |
|    | 19 |     | 477 | 483 | 480 | 473 | 456 | 442 | 435 | 430 | 437  | 461 | 456 | 456 | 464 | 466 | 460 | 464 | 471 | 459 | 441 | 444 | 453 | 457 | 462 | 464 | 0   | 458 |
|    | 20 | **  | 471 | 479 | 477 | 459 | 445 | 435 | 435 | 433 | 430* | 448 | 450 | 455 | 463 | 495 | 471 | 460 | 459 | 450 | 440 | 446 | 460 | 459 | 460 | 472 | 0   | 457 |
|    | 21 |     | 485 | 493 | 491 | 481 | 463 | 450 | 449 | 444 | 438  | 450 | 451 | 462 | 496 | 468 | 458 | 458 | 454 | 437 | 440 | 448 | 452 | 455 | 455 | 458 | 0   | 460 |
|    | 22 |     | 469 | 476 | 477 | 479 | 469 | 452 | 438 | 430 | 433  | 445 | 449 | 452 | 463 | 459 | 453 | 453 | 452 | 453 | 453 | 453 | 453 | 454 | 454 | 456 | 0   | 455 |
|    | 23 | **  | 460 | 472 | 476 | 468 | 450 | 438 | 425 | 425 | 438  | 450 | 486 | 480 | 463 | 464 | 463 | 463 | 458 | 460 | 450 | 459 | 435 | 445 | 446 | 452 | 0   | 455 |
|    | 24 |     | 471 | 479 | 473 | 471 | 462 | 446 | 439 | 436 | 439  | 449 | 450 | 451 | 456 | 459 | 458 | 456 | 453 | 452 | 440 | 424 | 442 | 455 | 452 | 438 | 0   | 453 |
|    | 25 | *   | 455 | 469 | 472 | 471 | 463 | 450 | 438 | 437 | 437  | 447 | 453 | 457 | 460 | 457 | 456 | 458 | 454 | 452 | 450 | 445 | 440 | 447 | 450 | 453 | 0   | 453 |
|    | 26 |     | 465 | 476 | 474 | 463 | 449 | 440 | 430 | 425 | 430  | 443 | 450 | 453 | 458 | 463 | 471 | 469 | 455 | 452 | 452 | 440 | 431 | 459 | 443 | 430 | 0   | 451 |
|    | 27 |     | 440 | 441 | 452 | 459 | 449 | 442 | 430 | 426 | 428  | 444 | 471 | 470 | 461 | 468 | 461 | 459 | 450 | 452 | 449 | 431 | 446 | 450 | 451 | 460 | 0   | 450 |
|    | 28 | *   | 471 | 480 | 478 | 470 | 457 | 445 | 440 | 441 | 443  | 450 | 454 | 457 | 461 | 460 | 457 | 456 | 452 | 449 | 446 | 449 | 450 | 452 | 452 | 455 | 0   | 455 |
|    | 29 | *   | 449 | 462 | 471 | 469 | 460 | 449 | 441 | 438 | 438  | 441 | 445 | 450 | 460 | 461 | 457 | 454 | 455 | 450 | 450 | 450 | 449 | 451 | 459 | 465 | 0   | 453 |
|    | 30 |     | 474 | 476 | 472 | 467 | 452 | 432 | 424 | 428 | 429  | 440 | 455 | 460 | 459 | 461 | 460 | 459 | 454 | 453 | 449 | 448 | 446 | 449 | 451 | 453 | 0   | 452 |
|    | *  | 471 | 478 | 477 | 468 | 454 | 442 | 434 | 433 | 437 | 446  | 455 | 458 | 462 | 464 | 462 | 459 | 457 | 454 | 451 | 450 | 451 | 453 | 456 | 462 |     | 456 |     |
|    | ** | 469 | 476 | 476 | 467 | 454 | 442 | 434 | 434 | 438 | 444  | 450 | 453 | 457 | 456 | 455 | 455 | 455 | 453 | 448 | 448 | 451 | 453 | 455 | 463 |     | 454 |     |
|    |    | 459 | 469 | 471 | 462 | 450 | 440 | 433 | 431 | 434 | 444  | 460 | 467 | 473 | 477 | 467 | 463 | 459 | 457 | 454 | 457 | 453 | 448 | 456 | 462 |     | 456 |     |

WATHEROO  
APRIL 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0454-3-3

|    |    | 1  | 2   | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |
|----|----|----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 76 | 1  | *  | 159 | 153  | 147 | 137 | 127 | 127 | 136 | 144 | 153  | 155 | 156 | 156 | 157 | 157 | 154 | 154 | 155 | 148 | 147 | 150 | 152 | 151 | 149 | 159 | 0   | 149 |     |
|    | 2  |    | 161 | 155  | 145 | 133 | 125 | 126 | 132 | 138 | 144  | 151 | 161 | 157 | 166 | 172 | 172 | 153 | 142 | 141 | 145 | 149 | 147 | 146 | 147 | 150 | 0   | 148 |     |
|    | 3  |    | 162 | 155  | 147 | 137 | 133 | 130 | 136 | 146 | 165  | 165 | 170 | 158 | 162 | 163 | 161 | 154 | 147 | 146 | 146 | 149 | 147 | 155 | 154 | 157 | 0   | 152 |     |
|    | 4  |    | 163 | 160  | 144 | 138 | 135 | 144 | 140 | 143 | 150  | 157 | 167 | 160 | 158 | 158 | 156 | 153 | 149 | 144 | 146 | 147 | 145 | 139 | 154 | 160 | 0   | 150 |     |
|    | 5  |    | 162 | 158  | 149 | 135 | 130 | 128 | 127 | 135 | 158  | 152 | 160 | 163 | 163 | 162 | 159 | 153 | 150 | 146 | 146 | 147 | 147 | 150 | 155 | 160 | 0   | 150 |     |
|    | 6  |    | 163 | 157  | 143 | 132 | 127 | 126 | 129 | 135 | 144  | 149 | 153 | 154 | 155 | 159 | 154 | 153 | 151 | 149 | 147 | 148 | 148 | 151 | 155 | 162 | 0   | 148 |     |
|    | 7  | *  | 165 | 164  | 157 | 145 | 135 | 129 | 133 | 140 | 148  | 153 | 153 | 156 | 159 | 160 | 160 | 158 | 157 | 157 | 148 | 147 | 153 | 153 | 155 | 161 | 0   | 152 |     |
|    | 8  |    | 164 | 162  | 151 | 136 | 121 | 118 | 123 | 135 | 149  | 152 | 154 | 158 | 162 | 160 | 159 | 156 | 153 | 155 | 156 | 153 | 145 | 153 | 154 | 160 | 0   | 150 |     |
|    | 9  |    | 162 | 164  | 151 | 142 | 135 | 133 | 138 | 146 | 154  | 159 | 161 | 159 | 159 | 166 | 172 | 168 | 164 | 146 | 152 | 156 | 153 | 155 | 156 | 160 | 0   | 155 |     |
|    | 10 |    | 166 | 162  | 151 | 145 | 139 | 140 | 141 | 147 | 152  | 153 | 156 | 163 | 157 | 154 | 155 | 160 | 167 | 160 | 156 | 155 | 155 | 156 | 155 | 159 | 0   | 154 |     |
|    | 11 | ** | 157 | 152  | 146 | 142 | 133 | 133 | 137 | 142 | 147  | 152 | 157 | 165 | 158 | 157 | 158 | 158 | 158 | 156 | 154 | 158 | 155 | 150 | 151 | 151 | 0   | 151 |     |
|    | 12 | ** | 127 | 164  | 160 | 154 | 151 | 151 | 160 | 162 | 164  | 167 | 184 | 195 | 211 | 172 | 158 | 156 | 158 | 162 | 158 | 160 | 163 | 149 | 162 | 164 | 1   | 163 |     |
|    | 13 |    | 167 | 173  | 169 | 166 | 160 | 151 | 148 | 151 | 155  | 164 | 166 | 167 | 169 | 171 | 161 | 155 | 161 | 157 | 155 | 154 | 155 | 150 | 156 | 165 | 0   | 160 |     |
|    | 14 |    | 165 | 163  | 157 | 155 | 153 | 149 | 148 | 150 | 156  | 171 | 165 | 166 | 171 | 162 | 160 | 158 | 157 | 154 | 154 | 156 | 158 | 160 | 160 | 160 | 0   | 159 |     |
|    | 15 | ** | 166 | 164  | 158 | 147 | 140 | 136 | 140 | 152 | 155  | 161 | 163 | 168 | 172 | 180 | 170 | 162 | 152 | 151 | 151 | 141 | 144 | 155 | 162 | 162 | 0   | 156 |     |
|    | 16 |    | 163 | 166  | 158 | 145 | 137 | 135 | 139 | 148 | 156  | 159 | 160 | 163 | 162 | 163 | 162 | 159 | 157 | 155 | 155 | 155 | 150 | 154 | 159 | 160 | 163 | 0   | 155 |
|    | 17 |    | 164 | 163  | 160 | 154 | 145 | 141 | 143 | 149 | 152  | 156 | 159 | 160 | 164 | 162 | 161 | 159 | 155 | 148 | 149 | 156 | 155 | 158 | 159 | 156 | 0   | 155 |     |
|    | 18 |    | 154 | 153  | 152 | 144 | 136 | 135 | 143 | 146 | 150  | 157 | 164 | 174 | 165 | 160 | 161 | 159 | 149 | 147 | 153 | 141 | 147 | 149 | 160 | 163 | 0   | 153 |     |
|    | 19 |    | 166 | 164  | 162 | 153 | 136 | 134 | 139 | 142 | 150  | 166 | 163 | 163 | 165 | 166 | 162 | 162 | 162 | 155 | 146 | 149 | 153 | 155 | 155 | 156 | 0   | 155 |     |
|    | 20 | ** | 160 | 158  | 154 | 143 | 133 | 132 | 142 | 147 | 155* | 162 | 164 | 163 | 171 | 183 | 167 | 160 | 158 | 150 | 138 | 153 | 158 | 157 | 157 | 164 | 0   | 155 |     |
|    | 21 |    | 167 | 168* | 163 | 154 | 146 | 141 | 151 | 154 | 151  | 158 | 159 | 169 | 187 | 168 | 162 | 158 | 154 | 144 | 148 | 152 | 154 | 155 | 155 | 159 | 0   | 157 |     |
|    | 22 |    | 163 | 164  | 161 | 155 | 143 | 143 | 143 | 143 | 150  | 158 | 160 | 162 | 169 | 162 | 157 | 157 | 157 | 157 | 156 | 154 | 153 | 153 | 153 | 156 | 0   | 155 |     |
|    | 23 | ** | 161 | 164  | 160 | 150 | 133 | 128 | 131 | 144 | 156  | 164 | 179 | 177 | 167 | 165 | 163 | 162 | 157 | 159 | 154 | 156 | 147 | 151 | 150 | 155 | 0   | 156 |     |
|    | 24 |    | 164 | 167  | 166 | 159 | 149 | 143 | 147 | 149 | 157  | 165 | 165 | 162 | 162 | 162 | 162 | 161 | 165 | 158 | 152 | 146 | 154 | 158 | 157 | 154 | 0   | 158 |     |
|    | 25 | *  | 163 | 170  | 168 | 166 | 158 | 150 | 150 | 154 | 155  | 161 | 162 | 162 | 162 | 161 | 161 | 162 | 161 | 160 | 158 | 156 | 154 | 156 | 157 | 159 | 0   | 159 |     |
|    | 26 |    | 163 | 165  | 162 | 160 | 147 | 144 | 145 | 149 | 157  | 160 | 159 | 159 | 161 | 161 | 159 | 160 | 156 | 154 | 153 | 148 | 145 | 157 | 149 | 147 | 0   | 155 |     |
|    | 27 |    | 156 | 158  | 165 | 161 | 150 | 150 | 153 | 161 | 164  | 167 | 174 | 171 | 165 | 167 | 162 | 158 | 153 | 157 | 155 | 150 | 157 | 158 | 159 | 163 | 0   | 160 |     |
|    | 28 | *  | 164 | 162  | 153 | 147 | 142 | 142 | 144 | 152 | 157  | 160 | 160 | 161 | 163 | 159 | 155 | 154 | 153 | 152 | 150 | 153 | 153 | 155 | 155 | 155 | 0   | 154 |     |
|    | 29 | *  | 150 | 154  | 152 | 149 | 145 | 147 | 149 | 151 | 154  | 156 | 157 | 159 | 163 | 162 | 157 | 154 | 154 | 153 | 152 | 153 | 154 | 154 | 158 | 161 | 0   | 154 |     |
|    | 30 |    | 161 | 158  | 151 | 144 | 135 | 137 | 143 | 156 | 163  | 162 | 170 | 177 | 172 | 168 | 164 | 159 | 155 | 155 | 154 | 155 | 156 | 159 | 160 | 160 | 0   | 157 |     |
|    |    |    | 161 | 161  | 155 | 148 | 139 | 137 | 141 | 147 | 154  | 159 | 163 | 164 | 166 | 164 | 161 | 158 | 156 | 153 | 151 | 151 | 152 | 154 | 156 | 159 |     | 155 |     |
|    |    | *  | 160 | 161  | 155 | 149 | 141 | 139 | 142 | 148 | 153  | 157 | 158 | 159 | 161 | 160 | 157 | 156 | 156 | 154 | 151 | 152 | 153 | 154 | 155 | 159 |     | 154 |     |
|    |    | ** | 154 | 160  | 156 | 147 | 138 | 136 | 142 | 149 | 155  | 161 | 169 | 174 | 176 | 171 | 163 | 160 | 157 | 156 | 151 | 154 | 153 | 152 | 156 | 159 |     | 156 |     |

WATHEROO  
APRIL 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0454-1-3

WATHEROO  
APRIL 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0454-2-3

WATHEROO  
APRIL 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0454-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | *  | 023  | 012  | -003 | 022  | -001 | 030  | 023  | -005 |
| 2  |    | 099  | -013 | -016 | -082 | 016  | 037  | 011  | -031 |
| 3  |    | 059  | -116 | 039  | 011  | 001  | 023  | 005  | 033  |
| 4  |    | 046  | -142 | 071  | -035 | 027  | 021  | -005 | 024  |
| 5  |    | 118  | -077 | 030  | 045  | -019 | 016  | -011 | -005 |
| 6  |    | 019  | -019 | 009  | 004  | 003  | -007 | -006 | -001 |
| 7  | *  | 023  | -033 | 050  | -017 | -019 | -002 | -008 | -022 |
| 8  |    | 028  | -022 | -012 | -015 | 020  | 034  | -030 | 003  |
| 9  |    | 020  | -056 | 058  | -047 | -042 | 022  | 041  | -011 |
| 10 |    | -005 | -019 | 040  | 014  | 020  | 020  | -008 | 005  |
| 11 | ** | -053 | -002 | -040 | 019  | -035 | 080  | -002 | 037  |
| 12 | ** | 123  | -294 | -018 | -134 | 132  | -051 | -027 | -018 |
| 13 |    | -009 | -121 | 097  | 013  | 026  | 008  | -026 | 020  |
| 14 |    | 020  | -116 | 074  | -013 | 022  | -008 | -017 | 019  |
| 15 | ** | 038  | -072 | 027  | -022 | -037 | 065  | -004 | 015  |
| 16 |    | 020  | -085 | 043  | -029 | -019 | 003  | 005  | -006 |
| 17 |    | 018  | -072 | 026  | -005 | -005 | 078  | 004  | -007 |
| 18 |    | 027  | -025 | -007 | -024 | -015 | 022  | -020 | -007 |
| 19 |    | -014 | -027 | 054  | -045 | 022  | -011 | 010  | 001  |
| 20 | ** | 014  | -102 | 035  | 038  | -007 | 087  | 051  | 034  |
| 21 |    | 025  | -119 | 053  | -023 | 000  | 081  | -019 | -050 |
| 22 |    | 021  | -126 | 077  | -012 | 019  | 012  | -020 | -011 |
| 23 | ** | 087  | -003 | -015 | 022  | 025  | 006  | 005  | -002 |
| 24 |    | 046  | -074 | 020  | -004 | 020  | -024 | 017  | 040  |
| 25 | *  | 044  | -093 | 075  | 021  | -014 | 015  | -007 | -015 |
| 26 |    | 017  | -175 | 099  | -019 | 016  | -001 | -012 | 034  |
| 27 |    | 090  | -148 | 059  | 029  | -042 | 028  | 012  | -057 |
| 28 | *  | 055  | -075 | 026  | -042 | -004 | -001 | -023 | -003 |
| 29 | *  | 041  | -064 | 056  | -020 | 002  | 031  | -022 | -010 |
| 30 |    | 126  | -090 | 040  | -018 | 021  | 056  | -039 | -011 |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | 038  | -078 | 034  | -011 | 005  | 023  | -005 | 000  |
|    |    | 037  | -051 | 040  | -008 | -007 | 016  | -007 | -010 |

|    |    | A1   | B1   | A2  | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|-----|------|------|------|------|
| 1  | *  | 106  | -096 | 096 | 067 | 026  | 096  | -006 | 024  |
| 2  |    | 062  | -045 | 123 | 149 | -004 | 026  | -036 | 072  |
| 3  |    | 064  | -033 | 142 | 098 | 002  | 098  | -060 | 047  |
| 4  |    | 049  | 006  | 117 | 097 | 016  | 103  | 017  | 036  |
| 5  |    | 093  | -021 | 121 | 078 | -004 | 063  | -017 | 017  |
| 6  |    | 124  | -065 | 134 | 070 | 014  | 055  | -011 | 028  |
| 7  | *  | 148  | -017 | 141 | 105 | -007 | 055  | -026 | -010 |
| 8  |    | 133  | -055 | 134 | 094 | 001  | 108  | -026 | 007  |
| 9  |    | 120  | -038 | 128 | 142 | -019 | 033  | -042 | 011  |
| 10 |    | 106  | -052 | 058 | 083 | 010  | 077  | 014  | -016 |
| 11 | ** | 099  | -088 | 042 | 041 | -045 | 046  | 008  | 027  |
| 12 | ** | -144 | -115 | 103 | 071 | -130 | -015 | 048  | 001  |
| 13 |    | 000  | -026 | 034 | 199 | -050 | 042  | 011  | 008  |
| 14 |    | 061  | -020 | 087 | 099 | -024 | 017  | -018 | -003 |
| 15 | ** | 014  | -052 | 119 | 190 | -005 | 004  | -008 | 010  |
| 16 |    | 112  | -013 | 093 | 114 | -008 | 057  | -028 | -003 |
| 17 |    | 086  | -037 | 060 | 071 | -035 | 034  | -016 | 011  |
| 18 |    | 002  | -005 | 119 | 094 | -014 | 048  | 007  | -034 |
| 19 |    | 057  | -030 | 114 | 116 | 004  | 055  | -036 | -032 |
| 20 | ** | 044  | -078 | 147 | 108 | -015 | -010 | -032 | 047  |
| 21 |    | 059  | 048  | 142 | 136 | -056 | 020  | -005 | 051  |
| 22 |    | 085  | -002 | 058 | 113 | -068 | 039  | -008 | -007 |
| 23 | ** | -035 | -039 | 119 | 103 | -061 | 114  | -008 | -038 |
| 24 |    | 037  | 024  | 070 | 132 | 000  | 036  | -038 | -025 |
| 25 | *  | 025  | 009  | 050 | 109 | -039 | 038  | -010 | -022 |
| 26 |    | 005  | -046 | 075 | 154 | -023 | 047  | -045 | 007  |
| 27 |    | -053 | -052 | 095 | 066 | -059 | -002 | 004  | -078 |
| 28 | *  | 051  | 012  | 084 | 091 | -023 | 047  | -024 | 018  |
| 29 | *  | 050  | -016 | 044 | 086 | -036 | -004 | -012 | -013 |
| 30 |    | 048  | -051 | 112 | 120 | -032 | 065  | -014 | 001  |
|    |    |      |      |     |     |      |      |      |      |
|    | *  | 054  | -034 | 099 | 105 | -023 | 046  | -014 | 004  |
|    |    | 075  | -022 | 084 | 092 | -015 | 046  | -015 | -001 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  | *  | -029 | -064 | 085 | -021 | 039  | 031  | -011 | 023  |
| 2  |    | -066 | -072 | 130 | 014  | 010  | 005  | -010 | 058  |
| 3  |    | -057 | -033 | 111 | -039 | 038  | 030  | -026 | 018  |
| 4  |    | -037 | -017 | 095 | -005 | 032  | 026  | 025  | 006  |
| 5  |    | -035 | -064 | 129 | -007 | 027  | 033  | -006 | 017  |
| 6  |    | -005 | -087 | 109 | -006 | 039  | 023  | 008  | 014  |
| 7  | *  | 001  | -071 | 096 | 026  | 034  | 037  | -014 | 014  |
| 8  |    | -017 | -111 | 122 | 003  | 037  | 061  | -004 | 034  |
| 9  |    | -038 | -077 | 090 | 014  | 045  | 016  | -034 | 022  |
| 10 |    | -004 | -068 | 051 | 002  | 033  | 039  | 011  | 000  |
| 11 | ** | -038 | -084 | 058 | -005 | 005  | 034  | 002  | 011  |
| 12 | ** | -135 | -003 | 083 | -032 | -082 | 018  | 043  | 004  |
| 13 |    | -007 | 008  | 073 | 047  | -014 | 042  | 003  | 007  |
| 14 |    | -022 | -014 | 071 | -007 | -007 | 021  | -006 | -005 |
| 15 | ** | -056 | -033 | 131 | 030  | 031  | 003  | -005 | 024  |
| 16 |    | -014 | -056 | 094 | -001 | 031  | 031  | -013 | 016  |
| 17 |    | -004 | -030 | 077 | 014  | 001  | 013  | -023 | 017  |
| 18 |    | -053 | -034 | 106 | -004 | 014  | 013  | 011  | -009 |
| 19 |    | -031 | -048 | 103 | 027  | 020  | 045  | -029 | 004  |
| 20 | ** | -061 | -060 | 126 | 001  | 021  | -010 | -027 | 031  |
| 21 |    | -034 | -007 | 111 | 028  | -014 | 003  | 008  | 044  |
| 22 |    | -015 | -038 | 070 | 026  | -009 | 042  | 004  | 014  |
| 23 | ** | -072 | -059 | 117 | 007  | 002  | 089  | -016 | 006  |
| 24 |    | -019 | -015 | 064 | 030  | 017  | 043  | -030 | -009 |
| 25 | *  | 004  | -004 | 037 | 039  | -002 | 039  | -014 | 000  |
| 26 |    | -022 | -004 | 051 | 036  | 008  | 041  | -026 | 012  |
| 27 |    | -044 | 013  | 061 | -013 | -003 | 022  | -017 | -003 |
| 28 | *  | -020 | -020 | 069 | -013 | 016  | 027  | -002 | 020  |
| 29 | *  | -024 | -025 | 044 | -009 | 002  | -005 | 003  | 004  |
| 30 |    | -068 | -048 | 102 | -035 | 013  | 021  | 001  | 020  |
|    |    |      |      |     |      |      |      |      |      |
|    | *  | -034 | -042 | 089 | 005  | 014  | 027  | -007 | 012  |
|    |    | -013 | -038 | 068 | 004  | 016  | 027  | -007 | 012  |



WATHEROO  
MAY 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0554-1-3

|    |    | 1   | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 78 | 1  | *   | 886 | 882 | 874 | 873  | 871 | 868 | 866 | 868 | 875 | 882 | 884 | 883 | 880 | 880 | 879 | 879 | 879 | 880 | 880 | 882 | 882 | 884 | 887 | 891 | 0   | 879 |
|    | 2  |     | 888 | 884 | 877 | 875  | 860 | 849 | 859 | 866 | 876 | 876 | 875 | 879 | 879 | 877 | 878 | 876 | 878 | 879 | 881 | 882 | 884 | 887 | 887 | 890 | 0   | 877 |
|    | 3  |     | 892 | 892 | 884 | 879  | 878 | 877 | 863 | 863 | 871 | 878 | 880 | 881 | 880 | 878 | 876 | 877 | 878 | 878 | 885 | 880 | 882 | 886 | 893 | 899 | 0   | 880 |
|    | 4  | **  | 899 | 898 | 887 | 875  | 870 | 859 | 856 | 860 | 875 | 884 | 884 | 881 | 879 | 880 | 877 | 876 | 877 | 873 | 889 | 878 | 874 | 878 | 888 | 885 | 1   | 878 |
|    | 5  |     | 882 | 881 | 877 | 862  | 852 | 853 | 845 | 847 | 860 | 867 | 873 | 869 | 875 | 875 | 871 | 872 | 871 | 874 | 877 | 877 | 879 | 879 | 883 | 884 | 0   | 870 |
|    | 6  |     | 882 | 875 | 871 | 868  | 866 | 863 | 855 | 860 | 872 | 875 | 876 | 879 | 880 | 879 | 878 | 882 | 880 | 880 | 882 | 883 | 884 | 884 | 886 | 893 | 0   | 876 |
|    | 7  | *   | 895 | 889 | 883 | 874  | 870 | 871 | 868 | 872 | 881 | 888 | 890 | 889 | 888 | 886 | 888 | 889 | 889 | 892 | 893 | 891 | 890 | 892 | 894 | 894 | 0   | 886 |
|    | 8  |     | 894 | 884 | 877 | 876  | 878 | 878 | 876 | 872 | 872 | 880 | 884 | 882 | 877 | 876 | 872 | 869 | 878 | 873 | 876 | 878 | 885 | 888 | 877 | 885 | 1   | 879 |
|    | 9  | **  | 887 | 880 | 879 | 870  | 859 | 852 | 848 | 838 | 854 | 853 | 846 | 853 | 858 | 867 | 868 | 864 | 868 | 872 | 874 | 873 | 877 | 872 | 877 | 883 | 1   | 866 |
|    | 10 |     | 889 | 891 | 885 | 875  | 873 | 867 | 857 | 866 | 875 | 877 | 877 | 875 | 876 | 877 | 877 | 879 | 880 | 880 | 885 | 884 | 889 | 885 | 882 | 884 | 0   | 879 |
| 78 | 11 | **  | 892 | 881 | 884 | 876  | 867 | 854 | 844 | 861 | 860 | 858 | 865 | 860 | 864 | 860 | 863 | 867 | 869 | 870 | 879 | 889 | 878 | 880 | 881 | 876 | 1   | 870 |
|    | 12 |     | 884 | 889 | 887 | 878  | 872 | 870 | 866 | 869 | 872 | 872 | 862 | 862 | 863 | 874 | 874 | 872 | 872 | 882 | 881 | 880 | 881 | 886 | 887 | 889 | 0   | 876 |
|    | 13 |     | 886 | 887 | 880 | 876  | 874 | 864 | 868 | 873 | 875 | 877 | 879 | 878 | 873 | 864 | 865 | 868 | 874 | 878 | 882 | 875 | 875 | 873 | 879 | 884 | 0   | 875 |
|    | 14 |     | 882 | 879 | 875 | 878  | 878 | 874 | 861 | 861 | 869 | 870 | 868 | 870 | 873 | 873 | 873 | 871 | 873 | 873 | 876 | 877 | 880 | 882 | 886 | 890 | 0   | 875 |
|    | 15 |     | 897 | 903 | 908 | 903  | 889 | 879 | 874 | 875 | 883 | 887 | 890 | 892 | 888 | 887 | 879 | 875 | 869 | 875 | 877 | 880 | 883 | 886 | 883 | 883 | 0   | 885 |
| 78 | 16 |     | 884 | 887 | 882 | 881  | 869 | 860 | 865 | 870 | 877 | 880 | 880 | 881 | 881 | 879 | 877 | 877 | 878 | 878 | 884 | 888 | 889 | 891 | 892 | 895 | 0   | 880 |
|    | 17 | *   | 896 | 895 | 897 | 894* | 892 | 888 | 879 | 879 | 883 | 891 | 890 | 890 | 889 | 887 | 885 | 884 | 883 | 882 | 887 | 888 | 890 | 895 | 902 | 907 | 0   | 890 |
|    | 18 | **  | 912 | 917 | 899 | 881  | 886 | 887 | 881 | 881 | 881 | 881 | 870 | 856 | 861 | 860 | 864 | 869 | 871 | 875 | 879 | 893 | 889 | 890 | 887 | 888 | 1   | 882 |
|    | 19 |     | 890 | 885 | 884 | 877  | 873 | 872 | 871 | 870 | 876 | 877 | 883 | 882 | 880 | 879 | 885 | 882 | 875 | 875 | 875 | 878 | 882 | 888 | 886 | 895 | 0   | 880 |
|    | 20 |     | 899 | 907 | 903 | 894  | 889 | 879 | 869 | 868 | 869 | 874 | 881 | 879 | 876 | 875 | 875 | 875 | 877 | 878 | 883 | 883 | 880 | 883 | 887 | 887 | 0   | 882 |
| 78 | 21 | **  | 886 | 877 | 880 | 872  | 874 | 877 | 879 | 877 | 870 | 865 | 869 | 868 | 876 | 872 | 871 | 878 | 885 | 873 | 871 | 873 | 873 | 875 | 878 | 882 | 1   | 875 |
|    | 22 |     | 888 | 894 | 886 | 876  | 867 | 865 | 862 | 860 | 868 | 874 | 874 | 874 | 875 | 875 | 874 | 876 | 875 | 876 | 878 | 877 | 878 | 888 | 890 | 888 | 0   | 877 |
|    | 23 |     | 888 | 884 | 884 | 881  | 875 | 871 | 862 | 857 | 862 | 873 | 877 | 877 | 876 | 875 | 876 | 877 | 877 | 875 | 876 | 879 | 880 | 879 | 885 | 889 | 0   | 876 |
|    | 24 |     | 891 | 888 | 884 | 876  | 873 | 873 | 865 | 869 | 865 | 859 | 866 | 871 | 873 | 877 | 875 | 875 | 875 | 876 | 886 | 883 | 879 | 883 | 888 | 891 | 0   | 877 |
|    | 25 | *   | 896 | 894 | 887 | 879  | 877 | 875 | 873 | 872 | 882 | 882 | 882 | 882 | 881 | 880 | 879 | 881 | 882 | 879 | 879 | 882 | 885 | 884 | 883 | 888 | 0   | 882 |
| 78 | 26 |     | 893 | 894 | 891 | 886  | 882 | 873 | 868 | 873 | 881 | 886 | 885 | 885 | 885 | 883 | 879 | 880 | 882 | 879 | 880 | 879 | 881 | 884 | 884 | 885 | 0   | 882 |
|    | 27 |     | 885 | 886 | 881 | 879  | 873 | 868 | 869 | 869 | 871 | 879 | 878 | 876 | 879 | 880 | 879 | 879 | 879 | 881 | 881 | 882 | 883 | 883 | 884 | 888 | 0   | 879 |
|    | 28 |     | 891 | 892 | 894 | 892  | 890 | 887 | 881 | 877 | 877 | 878 | 880 | 883 | 884 | 879 | 877 | 877 | 877 | 880 | 880 | 886 | 885 | 890 | 892 | 897 | 0   | 884 |
|    | 29 |     | 901 | 900 | 900 | 888  | 882 | 876 | 872 | 868 | 878 | 879 | 880 | 876 | 876 | 876 | 873 | 871 | 876 | 881 | 876 | 874 | 874 | 876 | 882 | 890 | 0   | 880 |
|    | 30 | *   | 896 | 899 | 896 | 891  | 890 | 883 | 875 | 873 | 876 | 885 | 885 | 882 | 881 | 881 | 881 | 881 | 884 | 883 | 885 | 886 | 887 | 890 | 891 | 894 | 0   | 886 |
| 31 |    | 901 | 906 | 902 | 895 | 888  | 882 | 883 | 888 | 891 | 894 | 894 | 894 | 887 | 882 | 879 | 879 | 879 | 881 | 881 | 891 | 888 | 888 | 889 | 890 | 0   | 889 |     |
| 78 |    | *   | 891 | 890 | 886 | 880  | 875 | 871 | 866 | 868 | 873 | 877 | 878 | 877 | 877 | 877 | 876 | 876 | 877 | 878 | 881 | 882 | 882 | 884 | 886 | 889 |     | 879 |
|    |    | *   | 894 | 892 | 887 | 882  | 880 | 877 | 872 | 873 | 879 | 886 | 886 | 885 | 884 | 883 | 882 | 883 | 883 | 883 | 885 | 886 | 887 | 889 | 891 | 895 |     | 884 |
|    | ** | 895 | 891 | 886 | 875 | 871  | 866 | 862 | 863 | 868 | 868 | 868 | 867 | 864 | 868 | 868 | 869 | 871 | 874 | 873 | 878 | 881 | 878 | 879 | 882 | 883 |     | 874 |

WATHEROO  
MAY 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | *  | 461 | 465 | 465 | 466  | 459 | 446 | 437 | 436 | 442 | 449 | 453 | 453 | 453 | 455 | 456 | 455 | 453 | 450 | 450 | 450 | 450 | 450 | 452 | 458 | 0 | 453 |
|    |    | 462 | 466 | 468 | 459  | 449 | 437 | 425 | 425 | 430 | 444 | 452 | 453 | 457 | 457 | 457 | 456 | 453 | 451 | 451 | 449 | 450 | 449 | 450 | 450 | 0 | 450 |
|    |    | 459 | 469 | 470 | 466  | 459 | 448 | 433 | 423 | 427 | 441 | 452 | 453 | 453 | 459 | 459 | 458 | 459 | 451 | 451 | 451 | 450 | 447 | 448 | 451 | 0 | 452 |
|    | ** | 467 | 481 | 483 | 480  | 467 | 451 | 426 | 419 | 420 | 439 | 449 | 451 | 453 | 459 | 460 | 468 | 457 | 459 | 456 | 451 | 453 | 450 | 419 | 443 | 1 | 453 |
| 5  |    | 458 | 472 | 472 | 472  | 468 | 453 | 440 | 436 | 438 | 449 | 453 | 453 | 471 | 459 | 458 | 456 | 454 | 452 | 452 | 452 | 452 | 452 | 452 | 458 | 0 | 456 |
| 6  |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | *  | 467 | 472 | 471 | 467  | 460 | 449 | 442 | 442 | 441 | 450 | 452 | 454 | 453 | 454 | 454 | 453 | 451 | 449 | 451 | 451 | 451 | 451 | 452 | 459 | 0 | 454 |
|    |    | 472 | 485 | 483 | 472  | 456 | 440 | 432 | 429 | 434 | 443 | 450 | 452 | 453 | 457 | 459 | 455 | 453 | 452 | 449 | 449 | 449 | 449 | 450 | 456 | 0 | 453 |
|    |    | 469 | 472 | 470 | 462  | 452 | 442 | 435 | 435 | 438 | 446 | 451 | 451 | 455 | 460 | 459 | 471 | 492 | 455 | 457 | 452 | 433 | 451 | 449 | 438 | 1 | 454 |
|    | ** | 442 | 457 | 462 | 462  | 457 | 456 | 439 | 439 | 438 | 448 | 452 | 453 | 458 | 477 | 466 | 460 | 452 | 449 | 449 | 456 | 449 | 448 | 455 | 452 | 1 | 453 |
| 10 |    | 458 | 468 | 469 | 469  | 470 | 458 | 450 | 445 | 441 | 449 | 450 | 450 | 458 | 455 | 455 | 456 | 457 | 452 | 448 | 444 | 443 | 453 | 448 | 448 | 0 | 454 |
| 11 |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | ** | 460 | 463 | 461 | 465  | 458 | 451 | 447 | 437 | 430 | 454 | 448 | 462 | 469 | 463 | 460 | 457 | 452 | 450 | 441 | 436 | 450 | 452 | 452 | 445 | 1 | 453 |
|    |    | 450 | 471 | 473 | 458  | 447 | 441 | 440 | 439 | 440 | 447 | 452 | 450 | 458 | 459 | 459 | 457 | 452 | 440 | 445 | 447 | 450 | 450 | 450 | 449 | 0 | 451 |
|    |    | 452 | 459 | 458 | 458  | 452 | 446 | 439 | 433 | 439 | 447 | 450 | 451 | 457 | 471 | 463 | 457 | 455 | 449 | 448 | 451 | 448 | 449 | 448 | 452 | 0 | 451 |
|    |    | 459 | 462 | 457 | 449  | 449 | 447 | 439 | 436 | 437 | 445 | 449 | 453 | 455 | 457 | 458 | 458 | 459 | 452 | 450 | 448 | 438 | 442 | 448 | 448 | 0 | 450 |
| 15 |    | 452 | 462 | 469 | 459  | 447 | 439 | 438 | 435 | 432 | 442 | 447 | 445 | 449 | 450 | 455 | 460 | 458 | 449 | 449 | 447 | 448 | 449 | 447 | 440 | 0 | 449 |
| 16 |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | *  | 447 | 458 | 469 | 468  | 458 | 455 | 441 | 431 | 436 | 445 | 450 | 450 | 452 | 452 | 455 | 458 | 454 | 452 | 445 | 445 | 448 | 447 | 448 | 450 | 0 | 451 |
|    |    | 460 | 467 | 467 | 462* | 451 | 441 | 432 | 429 | 435 | 445 | 450 | 451 | 452 | 452 | 452 | 454 | 452 | 448 | 448 | 447 | 448 | 447 | 447 | 449 | 0 | 449 |
|    | ** | 460 | 470 | 464 | 457  | 448 | 447 | 441 | 437 | 439 | 446 | 449 | 448 | 469 | 469 | 458 | 453 | 450 | 449 | 445 | 441 | 450 | 448 | 448 | 435 | 1 | 451 |
|    |    | 442 | 462 | 467 | 458  | 452 | 448 | 440 | 440 | 446 | 458 | 452 | 453 | 455 | 456 | 460 | 464 | 457 | 451 | 450 | 448 | 439 | 441 | 425 | 425 | 0 | 450 |
| 20 |    | 428 | 449 | 462 | 464  | 463 | 451 | 447 | 438 | 442 | 450 | 455 | 456 | 456 | 468 | 458 | 452 | 452 | 449 | 448 | 451 | 448 | 432 | 442 | 447 | 0 | 450 |
| 21 |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | ** | 450 | 446 | 451 | 449  | 437 | 436 | 432 | 432 | 436 | 448 | 469 | 456 | 457 | 458 | 472 | 470 | 459 | 458 | 444 | 446 | 451 | 452 | 450 | 441 | 1 | 450 |
|    |    | 448 | 453 | 461 | 461  | 458 | 452 | 449 | 448 | 449 | 452 | 457 | 458 | 456 | 456 | 456 | 453 | 452 | 450 | 451 | 451 | 447 | 451 | 450 | 439 | 0 | 452 |
|    |    | 446 | 460 | 465 | 451  | 441 | 438 | 428 | 427 | 431 | 444 | 451 | 455 | 456 | 458 | 457 | 452 | 452 | 450 | 449 | 448 | 448 | 446 | 448 | 452 | 0 | 448 |
|    |    | 459 | 469 | 470 | 462  | 451 | 439 | 432 | 430 | 433 | 436 | 448 | 451 | 458 | 457 | 458 | 456 | 454 | 451 | 439 | 448 | 451 | 450 | 451 | 447 | 0 | 450 |
| 25 |    | 454 | 460 | 461 | 457  | 448 | 446 | 444 | 443 | 442 | 448 | 454 | 457 | 457 | 457 | 457 | 452 | 451 | 449 | 448 | 442 | 441 | 448 | 448 | 446 | 0 | 450 |
| 26 |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    |    | 449 | 459 | 463 | 462  | 457 | 448 | 436 | 429 | 434 | 447 | 448 | 449 | 453 | 456 | 457 | 456 | 456 | 452 | 451 | 446 | 446 | 446 | 446 | 446 | 0 | 450 |
|    |    | 448 | 450 | 457 | 459  | 460 | 458 | 448 | 438 | 439 | 448 | 454 | 457 | 459 | 456 | 456 | 451 | 450 | 447 | 447 | 446 | 446 | 447 | 447 | 446 | 0 | 451 |
|    |    | 452 | 460 | 466 | 464  | 462 | 457 | 449 | 442 | 439 | 448 | 448 | 451 | 454 | 456 | 457 | 457 | 455 | 450 | 449 | 447 | 440 | 446 | 447 | 440 | 0 | 452 |
|    |    | 445 | 447 | 452 | 453  | 449 | 447 | 435 | 434 | 435 | 447 | 449 | 450 | 457 | 459 | 459 | 458 | 460 | 458 | 454 | 450 | 448 | 446 | 442 | 438 | 0 | 449 |
| 30 |    | 444 | 456 | 460 | 465  | 464 | 457 | 450 | 438 | 436 | 445 | 448 | 453 | 455 | 457 | 456 | 452 | 451 | 452 | 450 | 449 | 449 | 448 | 447 | 440 | 0 | 451 |
| 31 |    | 448 | 460 | 468 | 467  | 466 | 460 | 449 | 437 | 437 | 442 | 448 | 447 | 449 | 451 | 456 | 463 | 452 | 448 | 442 | 430 | 446 | 446 | 446 | 441 | 0 | 450 |
|    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |
|    | *  | 454 | 463 | 466 | 462  | 455 | 448 | 439 | 435 | 437 | 447 | 451 | 452 | 456 | 458 | 458 | 457 | 455 | 451 | 449 | 447 | 447 | 448 | 447 | 446 |   | 451 |
|    | ** | 458 | 467 | 467 | 464  | 456 | 446 | 439 | 435 | 438 | 446 | 451 | 453 | 454 | 456 | 456 | 454 | 452 | 450 | 449 | 447 | 447 | 448 | 449 | 450 |   | 451 |
|    |    | 456 | 463 | 464 | 463  | 453 | 448 | 437 | 433 | 433 | 447 | 453 | 454 | 461 | 465 | 463 | 462 | 454 | 453 | 447 | 446 | 451 | 450 | 445 | 443 |   | 452 |

WATHEROO  
MAY 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0554-3-3

|   |    | 1  | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |
|---|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8 | 1  | *  | 164 | 175 | 173 | 173  | 166 | 164 | 165 | 165 | 171 | 174 | 173 | 172 | 172 | 171 | 169 | 167 | 166 | 165 | 165 | 165 | 167 | 168 | 168 | 0   | 168 |     |     |
|   | 2  |    | 167 | 167 | 165 | 158  | 155 | 155 | 151 | 153 | 162 | 172 | 175 | 173 | 173 | 171 | 169 | 166 | 162 | 161 | 161 | 161 | 161 | 163 | 168 | 0   | 164 |     |     |
|   | 3  |    | 170 | 171 | 168 | 161  | 156 | 148 | 148 | 149 | 157 | 167 | 170 | 171 | 172 | 170 | 170 | 167 | 166 | 159 | 156 | 159 | 159 | 158 | 158 | 164 | 0   | 162 |     |
|   | 4  | ** | 173 | 177 | 173 | 162  | 151 | 146 | 143 | 149 | 155 | 165 | 167 | 170 | 172 | 173 | 172 | 171 | 162 | 162 | 156 | 157 | 160 | 157 | 146 | 165 | 1   | 162 |     |
|   | 5  |    | 175 | 178 | 174 | 173  | 163 | 153 | 152 | 156 | 161 | 166 | 166 | 169 | 176 | 168 | 168 | 164 | 164 | 161 | 159 | 159 | 161 | 161 | 161 | 166 | 0   | 165 |     |
|   | 6  |    | 172 | 175 | 169 | 166  | 162 | 157 | 157 | 161 | 159 | 165 | 166 | 167 | 167 | 168 | 169 | 166 | 164 | 163 | 161 | 160 | 160 | 160 | 161 | 165 | 0   | 164 |     |
|   | 7  | *  | 171 | 174 | 168 | 160  | 151 | 146 | 145 | 149 | 155 | 159 | 161 | 162 | 164 | 166 | 165 | 162 | 161 | 158 | 157 | 156 | 156 | 156 | 157 | 162 | 0   | 159 |     |
|   | 8  |    | 167 | 164 | 159 | 154  | 151 | 151 | 150 | 153 | 157 | 159 | 160 | 160 | 165 | 165 | 167 | 171 | 176 | 156 | 156 | 155 | 145 | 152 | 153 | 148 | 1   | 158 |     |
|   | 9  | ** | 154 | 162 | 165 | 165  | 161 | 161 | 154 | 161 | 161 | 168 | 172 | 170 | 169 | 174 | 169 | 166 | 164 | 162 | 162 | 164 | 159 | 161 | 163 | 163 | 1   | 164 |     |
|   | 10 |    | 168 | 171 | 170 | 170  | 167 | 161 | 162 | 160 | 160 | 164 | 166 | 167 | 167 | 166 | 166 | 165 | 165 | 163 | 161 | 161 | 160 | 164 | 160 | 161 | 0   | 164 |     |
|   | 11 | ** | 167 | 167 | 163 | 166  | 163 | 162 | 165 | 159 | 163 | 179 | 171 | 179 | 179 | 173 | 168 | 167 | 165 | 165 | 160 | 155 | 166 | 167 | 164 | 162 | 1   | 166 |     |
|   | 12 |    | 165 | 171 | 166 | 156  | 148 | 149 | 156 | 159 | 164 | 167 | 174 | 172 | 172 | 168 | 166 | 164 | 164 | 156 | 160 | 164 | 165 | 164 | 163 | 164 | 0   | 163 |     |
|   | 13 |    | 168 | 168 | 165 | 161  | 160 | 161 | 160 | 160 | 166 | 168 | 168 | 168 | 171 | 179 | 171 | 164 | 162 | 160 | 160 | 164 | 164 | 164 | 164 | 163 | 164 | 0   | 165 |
|   | 14 |    | 165 | 164 | 159 | 156  | 158 | 159 | 162 | 162 | 166 | 173 | 175 | 174 | 173 | 171 | 169 | 168 | 166 | 164 | 162 | 163 | 161 | 164 | 163 | 161 | 0   | 165 |     |
|   | 15 |    | 164 | 164 | 159 | 152  | 152 | 152 | 155 | 156 | 159 | 166 | 167 | 166 | 167 | 167 | 168 | 171 | 166 | 161 | 162 | 161 | 162 | 162 | 162 | 162 | 0   | 162 |     |
|   | 16 |    | 165 | 168 | 166 | 160  | 158 | 158 | 154 | 156 | 162 | 166 | 167 | 167 | 167 | 166 | 166 | 166 | 160 | 160 | 155 | 155 | 158 | 158 | 159 | 160 | 0   | 162 |     |
|   | 17 | *  | 163 | 162 | 159 | 156* | 145 | 145 | 146 | 153 | 162 | 168 | 171 | 171 | 171 | 171 | 169 | 167 | 164 | 163 | 162 | 162 | 163 | 162 | 161 | 162 | 0   | 162 |     |
|   | 18 | ** | 166 | 165 | 161 | 158  | 153 | 154 | 157 | 158 | 165 | 169 | 176 | 181 | 190 | 184 | 173 | 168 | 165 | 163 | 160 | 155 | 162 | 158 | 161 | 158 | 1   | 165 |     |
|   | 19 |    | 166 | 179 | 174 | 163  | 160 | 160 | 158 | 160 | 166 | 173 | 168 | 170 | 171 | 171 | 170 | 170 | 165 | 162 | 161 | 160 | 155 | 157 | 153 | 153 | 0   | 164 |     |
|   | 20 |    | 162 | 170 | 172 | 170  | 165 | 159 | 166 | 166 | 171 | 174 | 173 | 174 | 176 | 180 | 174 | 171 | 168 | 164 | 162 | 164 | 164 | 159 | 162 | 165 | 0   | 168 |     |
|   | 21 | ** | 170 | 172 | 171 | 168  | 165 | 167 | 164 | 164 | 167 | 178 | 187 | 177 | 175 | 175 | 182 | 176 | 165 | 166 | 163 | 163 | 166 | 165 | 163 | 162 | 1   | 170 |     |
|   | 22 |    | 166 | 170 | 171 | 168  | 168 | 167 | 165 | 168 | 170 | 172 | 173 | 173 | 173 | 173 | 173 | 171 | 170 | 168 | 167 | 167 | 163 | 162 | 161 | 157 | 0   | 168 |     |
|   | 23 |    | 165 | 170 | 167 | 162  | 161 | 161 | 162 | 165 | 167 | 171 | 172 | 173 | 173 | 174 | 173 | 172 | 171 | 169 | 168 | 167 | 165 | 164 | 165 | 166 | 0   | 168 |     |
|   | 24 |    | 169 | 172 | 173 | 171  | 166 | 160 | 162 | 165 | 168 | 175 | 176 | 171 | 176 | 173 | 175 | 173 | 172 | 171 | 160 | 167 | 168 | 167 | 164 | 164 | 0   | 169 |     |
|   | 25 | *  | 170 | 170 | 166 | 160  | 160 | 163 | 164 | 167 | 168 | 169 | 170 | 171 | 171 | 171 | 171 | 169 | 168 | 169 | 168 | 165 | 165 | 167 | 166 | 164 | 0   | 167 |     |
|   | 26 |    | 167 | 168 | 167 | 167  | 165 | 163 | 160 | 161 | 165 | 169 | 169 | 169 | 169 | 169 | 171 | 170 | 169 | 169 | 168 | 168 | 168 | 168 | 165 | 163 | 0   | 167 |     |
|   | 27 |    | 166 | 167 | 168 | 167  | 168 | 165 | 159 | 159 | 167 | 171 | 171 | 172 | 172 | 167 | 167 | 167 | 167 | 167 | 167 | 168 | 168 | 168 | 167 | 167 | 0   | 167 |     |
|   | 28 |    | 167 | 171 | 170 | 166  | 163 | 160 | 159 | 159 | 166 | 172 | 169 | 169 | 169 | 169 | 170 | 170 | 167 | 166 | 166 | 166 | 167 | 167 | 167 | 161 | 0   | 167 |     |
|   | 29 |    | 165 | 167 | 165 | 163  | 163 | 163 | 162 | 165 | 169 | 173 | 170 | 172 | 173 | 170 | 169 | 169 | 169 | 165 | 165 | 166 | 166 | 165 | 162 | 161 | 0   | 167 |     |
|   | 30 | *  | 162 | 166 | 167 | 165  | 163 | 160 | 156 | 157 | 163 | 168 | 168 | 171 | 169 | 170 | 167 | 164 | 163 | 164 | 164 | 165 | 165 | 165 | 165 | 163 | 0   | 165 |     |
|   | 31 |    | 166 | 170 | 170 | 162  | 158 | 157 | 154 | 154 | 160 | 166 | 168 | 168 | 170 | 170 | 172 | 173 | 165 | 161 | 161 | 156 | 166 | 166 | 167 | 167 | 0   | 164 |     |
|   |    | *  | 167 | 170 | 167 | 163  | 160 | 158 | 157 | 159 | 164 | 169 | 170 | 171 | 172 | 171 | 170 | 168 | 166 | 166 | 163 | 162 | 162 | 162 | 162 | 162 | 162 |     | 165 |
|   |    | ** | 166 | 169 | 167 | 163  | 157 | 156 | 155 | 158 | 164 | 168 | 169 | 169 | 169 | 170 | 168 | 166 | 164 | 164 | 163 | 163 | 163 | 163 | 163 | 163 | 164 |     | 164 |
|   |    |    | 166 | 169 | 167 | 164  | 159 | 158 | 157 | 158 | 162 | 172 | 175 | 175 | 177 | 176 | 173 | 170 | 164 | 164 | 160 | 159 | 163 | 162 | 159 | 162 |     | 165 |     |

WATHEROO  
MAY 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0554-1-3

WATHEROO  
MAY 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDRETHS OF MINUTES

2-0554-2-3

WATHEROO  
MAY 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0554-3-3

|    |    | A1  | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|-----|------|-----|------|------|------|------|------|
| 1  | *  | 016 | -051 | 059 | -021 | 007  | 017  | 005  | -016 |
| 2  |    | 040 | -083 | 079 | -023 | 017  | 035  | -019 | 013  |
| 3  |    | 071 | -038 | 069 | 005  | -003 | 020  | 017  | -024 |
| 4  | ** | 044 | -044 | 099 | 012  | 012  | 074  | -004 | 008  |
| 5  |    | 052 | -106 | 093 | -001 | -003 | 038  | -006 | 003  |
| 6  |    | 022 | -096 | 060 | -017 | 005  | 011  | 000  | -018 |
| 7  | *  | 012 | -088 | 060 | -021 | 016  | 034  | 004  | -006 |
| 8  |    | 039 | 000  | 041 | -022 | -010 | 010  | 017  | -007 |
| 9  | ** | 126 | -093 | 049 | 047  | 006  | 024  | -008 | 018  |
| 10 |    | 054 | -062 | 044 | 001  | -003 | 043  | -022 | 010  |
| 11 | ** | 118 | -069 | 038 | 005  | -015 | 054  | -020 | 018  |
| 12 |    | 100 | -037 | 014 | 006  | 021  | 013  | -019 | 015  |
| 13 |    | 046 | -002 | 032 | -016 | 011  | 061  | 018  | -003 |
| 14 |    | 069 | -033 | 036 | 004  | -010 | -008 | 001  | -021 |
| 15 |    | 049 | 056  | 078 | 036  | -050 | 051  | -029 | 016  |
| 16 |    | 051 | -062 | 065 | -031 | -005 | 024  | -020 | 003  |
| 17 | *  | 062 | 002  | 060 | -002 | -012 | 002  | -001 | -027 |
| 18 | ** | 175 | 045  | 001 | -014 | 035  | 048  | -011 | 049  |
| 19 |    | 035 | -026 | 070 | 000  | 012  | -003 | -008 | -007 |
| 20 |    | 105 | 012  | 049 | 054  | -025 | 054  | -002 | 001  |
| 21 | ** | 037 | -004 | 002 | 024  | 033  | -015 | 021  | 001  |
| 22 |    | 075 | -048 | 073 | 010  | 008  | 027  | -011 | -003 |
| 23 |    | 061 | -041 | 060 | 029  | -017 | 020  | 002  | -024 |
| 24 |    | 092 | -052 | 034 | 024  | 003  | -001 | 023  | 019  |
| 25 | *  | 038 | -015 | 050 | 005  | 013  | 029  | -005 | 009  |
| 26 |    | 027 | -004 | 060 | 018  | -005 | 041  | -015 | -003 |
| 27 |    | 036 | -045 | 041 | 004  | 002  | 018  | -005 | 000  |
| 28 |    | 075 | 016  | 031 | 010  | -022 | -003 | 010  | -011 |
| 29 |    | 079 | 030  | 057 | 043  | 012  | 059  | 007  | 004  |
| 30 | *  | 072 | -005 | 039 | 022  | -012 | 028  | -006 | -015 |
| 31 |    | 045 | 046  | 054 | -008 | -011 | 054  | -013 | 019  |
|    |    | 060 | -031 | 051 | 005  | -001 | 028  | -003 | 001  |
|    | *  | 040 | -032 | 054 | -004 | 002  | 022  | 000  | -010 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  | *  | 041  | -010 | 052  | 069 | -024 | 033  | -019 | -015 |
| 2  |    | 037  | -059 | 081  | 090 | -039 | 051  | -020 | -006 |
| 3  |    | 046  | -041 | 052  | 120 | -052 | 038  | -014 | -020 |
| 4  | ** | 060  | -037 | 029  | 192 | -085 | 088  | -036 | 006  |
| 5  |    | 040  | -001 | 053  | 097 | -060 | 024  | -009 | -009 |
| 6  |    | 061  | 010  | 053  | 069 | -021 | 038  | -011 | 003  |
| 7  | *  | 085  | -016 | 087  | 126 | -028 | 070  | -029 | 015  |
| 8  |    | 006  | -065 | 025  | 138 | 025  | 070  | -021 | -022 |
| 9  | ** | -014 | -029 | 035  | 082 | -051 | -023 | -026 | 000  |
| 10 |    | 031  | 035  | 012  | 095 | -027 | 013  | -010 | -017 |
| 11 | ** | -004 | 004  | 069  | 092 | -043 | -010 | -003 | -017 |
| 12 |    | 019  | -010 | 067  | 074 | -022 | 022  | -046 | 023  |
| 13 |    | -006 | -039 | 050  | 079 | -028 | -002 | -019 | 006  |
| 14 |    | -003 | -033 | 041  | 081 | 005  | 026  | 014  | -002 |
| 15 |    | 030  | -038 | 024  | 087 | -017 | 036  | -040 | 000  |
| 16 |    | 027  | -002 | 018  | 093 | -042 | 018  | -026 | -035 |
| 17 | *  | 043  | -024 | 060  | 083 | -030 | 051  | -022 | -006 |
| 18 | ** | -004 | -011 | 064  | 089 | -034 | 010  | -015 | 038  |
| 19 |    | -062 | 004  | -008 | 096 | -030 | 065  | -052 | 018  |
| 20 |    | -047 | 010  | -001 | 076 | -069 | 008  | -020 | -010 |
| 21 | ** | -060 | -089 | 061  | 053 | -008 | 015  | -042 | -036 |
| 22 |    | -021 | 014  | 006  | 036 | -039 | 014  | -020 | -007 |
| 23 |    | 007  | -060 | 072  | 069 | -037 | 037  | -015 | -003 |
| 24 |    | 043  | -038 | 072  | 102 | -035 | 025  | -030 | 003  |
| 25 | *  | -010 | 002  | 048  | 059 | -014 | 021  | -004 | 001  |
| 26 |    | 016  | -028 | 025  | 091 | -038 | 026  | -020 | -024 |
| 27 |    | -014 | 013  | 019  | 057 | -051 | -007 | 005  | -024 |
| 28 |    | 005  | 020  | 000  | 092 | -030 | 011  | -011 | -009 |
| 29 |    | -033 | -062 | 001  | 068 | -035 | 018  | -011 | -014 |
| 30 | *  | 005  | 006  | -009 | 075 | -063 | -003 | -008 | -014 |
| 31 |    | 020  | 037  | 000  | 114 | -026 | -007 | -031 | -038 |
|    |    | 012  | -016 | 037  | 088 | -033 | 027  | -020 | -007 |
|    | *  | 032  | -008 | 048  | 083 | -030 | 034  | -016 | -004 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  | *  | -013 | 015  | 030 | 007  | -008 | 019  | -018 | 000  |
| 2  |    | -035 | -023 | 074 | 004  | -004 | 027  | -004 | -005 |
| 3  |    | -026 | -028 | 081 | 039  | -003 | 036  | -014 | 001  |
| 4  | ** | -024 | -035 | 090 | 064  | 000  | 053  | -021 | 029  |
| 5  |    | 006  | 001  | 070 | 047  | -010 | 037  | -013 | 012  |
| 6  |    | 000  | -003 | 043 | 036  | 007  | 024  | -004 | 012  |
| 7  | *  | 007  | -027 | 071 | 044  | 010  | 040  | -012 | 020  |
| 8  |    | -046 | -030 | 028 | 057  | 035  | 024  | -008 | 004  |
| 9  | ** | -043 | -012 | 029 | 013  | -021 | 007  | -014 | -009 |
| 10 |    | 001  | 010  | 021 | 034  | -011 | 016  | -007 | 000  |
| 11 | ** | -047 | 005  | 051 | 004  | -016 | 004  | 000  | -015 |
| 12 |    | -028 | -025 | 070 | -014 | 002  | 026  | -014 | 021  |
| 13 |    | -027 | -007 | 046 | 009  | -005 | -005 | -008 | 022  |
| 14 |    | -056 | -014 | 039 | -012 | 004  | 009  | 003  | -003 |
| 15 |    | -032 | -044 | 041 | 002  | 017  | 010  | -008 | 003  |
| 16 |    | -024 | 003  | 047 | 023  | 004  | 018  | -012 | 000  |
| 17 | *  | -048 | -059 | 068 | -006 | 002  | 030  | -017 | 007  |
| 18 | ** | -093 | -023 | 084 | 019  | -017 | 006  | 011  | 017  |
| 19 |    | -042 | 013  | 035 | 045  | 002  | 045  | -020 | 027  |
| 20 |    | -053 | 009  | 035 | 025  | -006 | 013  | -020 | 015  |
| 21 | ** | -058 | 007  | 048 | 020  | -009 | 017  | -022 | -006 |
| 22 |    | -045 | 007  | 005 | 023  | -009 | 020  | -011 | 010  |
| 23 |    | -038 | -025 | 026 | 010  | 005  | 015  | -003 | 007  |
| 24 |    | -032 | -008 | 033 | 022  | -003 | 023  | -028 | -001 |
| 25 | *  | -025 | -017 | 022 | -001 | 012  | 010  | -004 | 013  |
| 26 |    | -013 | -024 | 012 | 011  | -009 | 014  | -013 | -003 |
| 27 |    | -009 | -012 | 023 | -001 | -020 | 016  | -006 | -015 |
| 28 |    | -012 | -018 | 027 | 010  | -007 | 021  | -023 | 000  |
| 29 |    | -038 | -008 | 018 | -001 | -004 | 013  | -010 | 005  |
| 30 | *  | -015 | -015 | 032 | 006  | -023 | 014  | -011 | -004 |
| 31 |    | -010 | -028 | 059 | 027  | 003  | 004  | -023 | -007 |
|    |    | -030 | -013 | 044 | 019  | -003 | 020  | -010 | 006  |
|    | *  | -019 | -020 | 044 | 010  | -002 | 024  | -012 | 007  |

WATHEROO  
JUNE 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0654-1-3

|    |    | 1   | 2    | 3   | 4   | 5   | 6   | 7   | 8    | 9   | 10  | 11  | 12  | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   |     |     |      |     |
|----|----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|-----|
| 28 | 1  |     | 895  | 895 | 894 | 888 | 886 | 879 | 877  | 877 | 880 | 882 | 881 | 882  | 884  | 883  | 880  | 880  | 884  | 889  | 887  | 888  | 890  | 890  | 892  | 897 | 0   | 886  |     |
|    | 2  |     | 901  | 901 | 893 | 881 | 873 | 877 | 878  | 884 | 892 | 890 | 880 | 884  | 882  | 877  | 881  | 878  | 878  | 881  | 881  | 881  | 882  | 885  | 888  | 890 | 0   | 884  |     |
|    | 3  |     | 894  | 898 | 898 | 890 | 885 | 883 | 879  | 888 | 891 | 890 | 885 | 888  | 891  | 888  | 886  | 885  | 883  | 885  | 888  | 890  | 890  | 894  | 897  | 899 | 0   | 889  |     |
|    | 4  |     | 899  | 898 | 905 | 906 | 900 | 891 | 874  | 867 | 855 | 858 | 865 | 867  | 868  | 869  | 873  | 874  | 874  | 877  | 875  | 876  | 883  | 883  | 884  | 887 | 0   | 880  |     |
|    | 5  | *   | 892  | 895 | 894 | 891 | 888 | 886 | 882  | 881 | 884 | 888 | 888 | 888  | 888  | 888  | 887  | 887  | 885  | 887  | 884  | 887  | 886  | 886  | 888  | 894 | 0   | 888  |     |
|    | 6  |     | 895  | 895 | 892 | 887 | 879 | 876 | 876  | 880 | 885 | 888 | 887 | 886  | 886  | 883  | 882  | 885  | 888  | 888  | 888  | 888  | 889  | 890  | 891  | 893 | 896 | 0    | 887 |
|    | 7  |     | 899  | 899 | 901 | 897 | 887 | 878 | 878  | 880 | 884 | 889 | 894 | 896  | 899  | 889  | 886  | 890  | 886  | 885  | 887  | 888  | 887  | 890  | 892  | 898 | 0   | 891  |     |
|    | 8  | *   | 901  | 901 | 898 | 894 | 887 | 882 | 880  | 882 | 888 | 893 | 892 | 892  | 891  | 909  | 909  | 908  | 888  | 888  | 889  | 891  | 893  | 893  | 893  | 895 | 0   | 893  |     |
|    | 9  |     | 899  | 894 | 887 | 884 | 888 | 890 | 890  | 891 | 890 | 890 | 886 | 887  | 890  | 887  | 885  | 888  | 888  | 890  | 892  | 893  | 893  | 891  | 892  | 897 | 0   | 890  |     |
|    | 10 | **  | 898  | 896 | 901 | 900 | 897 | 888 | 856  | 860 | 875 | 874 | 872 | 864  | 890  | 887  | 885  | 888  | 888  | 890  | 892  | 893  | 893  | 891  | 892  | 897 | 0   | 882* |     |
|    | 11 | *   |      | 875 | 875 | 870 | 869 | 866 | 869  | 870 | 878 | 880 | 873 | 872  | 871  | 873  | 873  | 874  | 875  | 876  | 877  | 878  | 881  | 882  | 885  | 889 | 0   | 875  |     |
|    | 12 | **  | 894  | 899 | 901 | 898 | 891 | 886 | 884  | 884 | 887 | 892 | 895 | 894  | 888  | 888  | 886  | 890  | 879  | 875  | 876  | 882  | 883  | 881  | 881  | 883 | 0   | 887  |     |
|    | 13 | **  | 882  | 881 | 876 | 874 | 873 | 874 | 876  | 876 | 879 | 878 | 879 | 879  | 879  | 880  | 883  | 885  | 883  | 883  | 892  | 885  | 883  | 887  | 888  | 891 | 0   | 881  |     |
|    | 14 | **  | 893  | 893 | 891 | 888 | 886 | 883 | 885  | 885 | 888 | 888 | 887 | 873  | 863  | 873  | 880  | 880  | 878  | 878  | 879  | 881  | 880  | 884  | 886  | 890 | 0   | 883  |     |
|    | 15 |     | 897  | 898 | 897 | 889 | 881 | 881 | 875  | 873 | 881 | 886 | 886 | 885  | 882  | 882  | 882  | 882  | 882  | 882  | 886  | 886  | 884  | 887  | 889  | 890 | 0   | 885  |     |
|    | 16 | *   | 890  | 890 | 888 | 886 | 885 | 880 | 876  | 875 | 882 | 884 | 885 | 887  | 885  | 884  | 882  | 881  | 882  | 885  | 886  | 888  | 888  | 889  | 890  | 894 | 0   | 885  |     |
|    | 17 |     | 897  | 895 | 893 | 894 | 891 | 886 | 889  | 886 | 892 | 898 | 894 | 892  | 891  | 887  | 888  | 889  | 889  | 890  | 892  | 896  | 897  | 897  | 898  | 902 | 0   | 893  |     |
|    | 18 |     | 911  | 914 | 914 | 912 | 903 | 893 | 884* | 883 | 887 | 890 | 889 | 887  | 884  | 882  | 882  | 883  | 884  | 889  | 890  | 891  | 895  | 896  | 893  | 892 | 0   | 893  |     |
|    | 19 |     | 894  | 892 | 886 | 882 | 880 | 874 | 876  | 877 | 881 | 886 | 886 | 882  | 884  | 885  | 885  | 883  | 882  | 884  | 885  | 891  | 892  | 895  | 894  | 895 | 0   | 885  |     |
|    | 20 |     | 895  | 897 | 897 | 895 | 888 | 886 | 885  | 881 | 884 | 887 | 888 | 887  | 886  | 884  | 881  | 881  | 880  | 881  | 883  | 883  | 884  | 887  | 889  | 892 | 0   | 887  |     |
|    | 21 |     | 898  | 901 | 900 | 895 | 887 | 881 | 882  | 887 | 888 | 893 | 895 | 890  | 886  | 883  | 882  | 886  | 884  | 885  | 887  | 888  | 889  | 892  | 893  | 888 | 0   | 889  |     |
|    | 22 |     | 896  | 900 | 893 | 885 | 882 | 877 | 871  | 869 | 873 | 882 | 885 | 884  | 882  | 878  | 882  | 878  | 874  | 876  | 879  | 880  | 882  | 884  | 887  | 892 | 0   | 882  |     |
|    | 23 |     | 894  | 895 | 889 | 883 | 879 | 879 | 879  | 880 | 885 | 889 | 889 | 889  | 888  | 885  | 884  | 882  | 882  | 884  | 889  | 888  | 886  | 884  | 885  | 889 | 0   | 886  |     |
|    | 24 | *   | 889  | 889 | 886 | 881 | 874 | 874 | 880  | 881 | 884 | 889 | 888 | 886  | 885  | 884  | 884  | 885  | 885  | 885  | 885  | 885  | 888  | 892  | 895  | 897 | 0   | 885  |     |
|    | 25 |     | 900  | 902 | 901 | 896 | 895 | 891 | 889  | 888 | 889 | 895 | 895 | 893  | 881  | 868  | 874  | 877  | 881  | 880  | 881  | 883  | 883  | 884  | 888  | 892 | 0   | 888  |     |
|    | 26 |     | 900  | 905 | 901 | 894 | 892 | 887 | 887  | 887 | 887 | 887 | 883 | 885  | 892  | 893  | 891  | 889  | 888  | 888  | 886  | 891  | 895  | 895  | 895  | 897 | 0   | 891  |     |
|    | 27 |     | 898  | 897 | 891 | 889 | 887 | 882 | 879  | 878 | 881 | 885 | 885 | 885  | 882  | 886  | 888  | 886  | 884  | 880  | 882  | 885  | 888  | 893  | 894  | 892 | 0   | 887  |     |
|    | 28 | **  | 893  | 886 | 876 | 875 | 876 | 875 | 857  | 851 | 862 | 871 | 876 | 878  | 877  | 874  | 873  | 873  | 872  | 873  | 874  | 875  | 877  | 879  | 879  | 882 | 0   | 874  |     |
|    | 29 |     | 884  | 884 | 886 | 887 | 887 | 885 | 876  | 877 | 880 | 884 | 886 | 882  | 881  | 879  | 880  | 878  | 878  | 877  | 876  | 880  | 884  | 886  | 888  | 889 | 0   | 882  |     |
|    | 30 |     | 894  | 900 | 903 | 902 | 896 | 893 | 891  | 888 | 886 | 886 | 885 | 883  | 884  | 883  | 880  | 881  | 878  | 880  | 882  | 885  | 886  | 885  | 889  | 893 | 0   | 888  |     |
|    |    | *   | 896  | 896 | 894 | 890 | 886 | 882 | 879  | 879 | 883 | 886 | 885 | 884  | 884  | 888  | 883  | 883  | 882  | 883  | 884  | 886  | 887  | 888  | 890  | 892 |     | 886  |     |
|    |    | *   | 893* | 890 | 888 | 884 | 881 | 878 | 877  | 878 | 883 | 887 | 885 | 885  | 884  | 888  | 887  | 887  | 883  | 884  | 884  | 886  | 887  | 888  | 890  | 894 |     | 885  |     |
|    | ** | 892 | 891  | 889 | 887 | 885 | 881 | 872 | 871  | 878 | 881 | 882 | 878 | 877* | 879* | 881* | 882* | 878* | 877* | 880* | 881* | 881* | 883* | 884* | 887* |     | 882 |      |     |

WATHEROO  
JUNE 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

2-0654-2-3

|    |    | 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  |    | 448 | 461 | 461 | 459 | 454 | 451 | 445 | 440 | 440 | 446 | 448 | 449 | 450  | 450  | 450  | 450  | 446  | 447  | 446  | 446  | 447  | 446  | 445  | 443  | 0 | 449  |
| 2  |    | 447 | 455 | 457 | 456 | 446 | 446 | 437 | 430 | 432 | 437 | 448 | 449 | 451  | 457  | 456  | 454  | 450  | 451  | 448  | 447  | 448  | 449  | 449  | 449  | 0 | 448  |
| 3  |    | 454 | 463 | 461 | 455 | 449 | 447 | 438 | 436 | 438 | 446 | 449 | 452 | 455  | 457  | 455  | 452  | 449  | 449  | 448  | 448  | 447  | 447  | 448  | 445  | 0 | 450  |
| 4  |    | 445 | 447 | 454 | 451 | 451 | 441 | 438 | 434 | 435 | 442 | 450 | 454 | 455  | 458  | 457  | 457  | 450  | 449  | 448  | 437  | 442  | 448  | 444  | 440  | 0 | 447  |
| 5  | *  | 448 | 457 | 458 | 458 | 458 | 458 | 448 | 442 | 443 | 448 | 453 | 454 | 455  | 456  | 455  | 451  | 449  | 448  | 445  | 448  | 449  | 448  | 449  | 450  | 0 | 451  |
| 6  |    | 453 | 457 | 459 | 458 | 455 | 438 | 428 | 428 | 437 | 448 | 450 | 453 | 455  | 456  | 454  | 454  | 453  | 448  | 446  | 445  | 446  | 445  | 447  | 447  | 0 | 448  |
| 7  |    | 449 | 458 | 459 | 461 | 465 | 454 | 437 | 432 | 437 | 448 | 451 | 454 | 455  | 452  | 465  | 459  | 451  | 448  | 447  | 448  | 448  | 447  | 443  | 447  | 0 | 451  |
| 8  | *  | 448 | 457 | 456 | 454 | 450 | 447 | 438 | 437 | 440 | 448 | 451 | 453 | 457  | 458  | 455  | 453  | 449  | 448  | 447  | 443  | 443  | 445  | 447  | 445  | 0 | 449  |
| 9  |    | 448 | 457 | 458 | 453 | 448 | 441 | 438 | 436 | 437 | 446 | 449 | 451 | 454  | 457  | 458  | 458  | 449  | 447  | 445  | 444  | 445  | 446  | 443  | 440  | 0 | 448  |
| 10 | ** | 447 | 459 | 457 | 460 | 456 | 437 | 419 | 418 | 437 | 442 | 450 | 458 | 454  | 457  | 458  | 458  | 449  | 447  | 445  | 444  | 445  | 446  | 443  | 440  | 0 | 445* |
| 11 | *  |     | 467 | 468 | 459 | 450 | 447 | 437 | 433 | 437 | 447 | 448 | 449 | 453  | 454  | 457  | 457  | 457  | 453  | 449  | 447  | 447  | 448  | 448  | 448  | 0 | 450  |
| 12 | ** | 450 | 456 | 453 | 449 | 451 | 448 | 442 | 437 | 438 | 448 | 449 | 453 | 457  | 458  | 454  | 458  | 458  | 453  | 448  | 425  | 440  | 449  | 448  | 447  | 0 | 449  |
| 13 | ** | 448 | 455 | 456 | 449 | 444 | 441 | 439 | 437 | 444 | 448 | 448 | 452 | 454  | 456  | 455  | 455  | 452  | 444  | 437  | 447  | 438  | 440  | 444  | 446  | 0 | 447  |
| 14 | ** | 448 | 457 | 457 | 455 | 447 | 438 | 433 | 433 | 438 | 444 | 444 | 446 | 463  | 447  | 451  | 452  | 450  | 447  | 447  | 445  | 447  | 446  | 446  | 444  | 0 | 447  |
| 15 |    | 447 | 456 | 463 | 462 | 457 | 448 | 447 | 442 | 443 | 450 | 452 | 453 | 453  | 453  | 452  | 449  | 448  | 447  | 447  | 447  | 447  | 442  | 447  | 447  | 0 | 450  |
| 16 | *  | 449 | 458 | 460 | 459 | 459 | 458 | 449 | 437 | 437 | 444 | 447 | 450 | 450  | 454  | 455  | 455  | 452  | 448  | 447  | 447  | 446  | 445  | 444  | 443  | 0 | 450  |
| 17 |    | 445 | 450 | 456 | 458 | 456 | 451 | 444 | 434 | 437 | 447 | 449 | 452 | 452  | 452  | 453  | 453  | 448  | 447  | 446  | 442  | 444  | 440  | 438  | 436  | 0 | 447  |
| 18 |    | 437 | 448 | 457 | 459 | 457 | 455 | 450 | 442 | 438 | 447 | 448 | 451 | 452  | 452  | 453  | 452  | 449  | 447  | 443  | 442  | 433  | 446  | 442  | 442  | 0 | 448  |
| 19 |    | 447 | 456 | 462 | 456 | 447 | 447 | 446 | 445 | 447 | 448 | 449 | 453 | 453  | 455  | 454  | 451  | 448  | 447  | 446  | 438  | 437  | 440  | 444  | 440  | 0 | 448  |
| 20 |    | 446 | 450 | 454 | 457 | 456 | 449 | 447 | 440 | 439 | 446 | 447 | 451 | 455  | 456  | 455  | 457  | 451  | 448  | 447  | 446  | 447  | 444  | 442  | 440  | 0 | 449  |
| 21 |    | 444 | 451 | 456 | 452 | 444 | 438 | 437 | 437 | 440 | 447 | 450 | 453 | 454  | 454  | 453  | 457  | 448  | 447  | 446  | 443  | 445  | 437  | 441  | 431  | 0 | 446  |
| 22 |    | 428 | 447 | 456 | 450 | 447 | 451 | 447 | 446 | 445 | 447 | 451 | 457 | 457  | 457  | 457  | 452  | 447  | 446  | 442  | 440  | 437  | 442  | 440  | 444  | 0 | 447  |
| 23 |    | 445 | 448 | 456 | 460 | 457 | 447 | 438 | 437 | 439 | 448 | 452 | 453 | 455  | 455  | 454  | 452  | 448  | 445  | 440  | 440  | 439  | 444  | 444  | 443  | 0 | 447  |
| 24 | *  | 447 | 457 | 468 | 468 | 458 | 449 | 442 | 436 | 437 | 447 | 450 | 454 | 455  | 456  | 454  | 451  | 447  | 447  | 446  | 444  | 444  | 444  | 444  | 443  | 0 | 450  |
| 25 |    | 447 | 455 | 458 | 458 | 453 | 447 | 436 | 433 | 436 | 447 | 448 | 451 | 454  | 459  | 455  | 456  | 451  | 449  | 444  | 444  | 443  | 445  | 446  | 445  | 0 | 448  |
| 26 |    | 450 | 458 | 467 | 468 | 457 | 450 | 445 | 440 | 442 | 447 | 448 | 456 | 453  | 452  | 452  | 448  | 447  | 447  | 446  | 442  | 440  | 442  | 442  | 439  | 0 | 449  |
| 27 |    | 446 | 458 | 467 | 456 | 442 | 437 | 430 | 437 | 437 | 447 | 448 | 452 | 455  | 460  | 454  | 455  | 452  | 448  | 447  | 446  | 446  | 439  | 443  | 440  | 0 | 448  |
| 28 | ** | 446 | 453 | 456 | 453 | 448 | 437 | 429 | 416 | 422 | 442 | 448 | 448 | 452  | 457  | 456  | 455  | 454  | 451  | 447  | 447  | 446  | 447  | 448  | 450  | 0 | 446  |
| 29 |    | 456 | 461 | 464 | 457 | 447 | 437 | 437 | 438 | 437 | 443 | 447 | 447 | 452  | 456  | 456  | 457  | 457  | 452  | 447  | 447  | 447  | 447  | 447  | 444  | 0 | 449  |
| 30 |    | 447 | 458 | 465 | 466 | 457 | 447 | 437 | 436 | 439 | 446 | 447 | 448 | 457  | 454  | 454  | 454  | 454  | 450  | 448  | 447  | 446  | 446  | 446  | 446  | 0 | 448  |
|    | *  | 447 | 456 | 459 | 457 | 452 | 446 | 439 | 436 | 438 | 446 | 449 | 452 | 454  | 456  | 455  | 454  | 450  | 448  | 446  | 444  | 444  | 445  | 445  | 443  |   | 448  |
|    | ** | 448 | 459 | 462 | 460 | 455 | 452 | 443 | 437 | 439 | 447 | 450 | 452 | 454  | 456  | 455  | 453  | 451  | 449  | 447  | 446  | 446  | 446  | 446  | 446  |   | 450  |
|    |    |     | 456 | 456 | 453 | 449 | 440 | 432 | 428 | 436 | 445 | 448 | 451 | 457* | 455* | 454* | 455* | 454* | 449* | 445* | 441* | 443* | 446* | 447* | 447* |   | 447  |

WATHEROO  
JUNE 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0654-3-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 44 | 1  |     | 173 | 177 | 169 |     | 162 | 158 | 160 |     | 159  | 159 | 162 |     | 167 | 169 | 170 |     | 170 | 170 | 169 |     | 167 | 162 | 160 |     | 161 | 162 | 163 |     | 165 | 165 | 162 | 0   | 165 |
|    | 2  |     | 167 | 168 | 164 |     | 161 | 161 | 160 |     | 155  | 155 | 160 |     | 164 | 172 | 172 |     | 174 | 177 | 171 |     | 170 | 168 | 166 |     | 164 | 163 | 165 |     | 166 | 166 | 166 | 0   | 166 |
|    | 3  |     | 170 | 174 | 169 |     | 161 | 158 | 158 |     | 157  | 158 | 163 |     | 166 | 169 | 169 |     | 169 | 169 | 168 |     | 166 | 165 | 163 |     | 161 | 161 | 161 |     | 161 | 161 | 159 | 0   | 164 |
|    | 4  |     | 163 | 166 | 167 |     | 158 | 157 | 154 |     | 158  | 162 | 170 |     | 175 | 175 | 175 |     | 175 | 173 | 173 |     | 171 | 170 | 167 |     | 167 | 162 | 162 |     | 165 | 163 | 161 | 0   | 166 |
|    | 5  | *   | 166 | 171 | 170 |     | 165 | 163 | 162 |     | 158  | 157 | 161 |     | 166 | 167 | 169 |     | 170 | 171 | 169 |     | 169 | 168 | 165 |     | 165 | 165 | 165 |     | 164 | 164 | 162 | 0   | 166 |
|    | 6  |     | 168 | 171 | 172 |     | 171 | 168 | 161 |     | 158  | 161 | 167 |     | 170 | 170 | 171 |     | 172 | 174 | 173 |     | 173 | 170 | 168 |     | 167 | 164 | 165 |     | 164 | 163 | 163 | 0   | 168 |
|    | 7  |     | 167 | 172 | 172 |     | 168 | 162 | 157 |     | 155  | 157 | 166 |     | 170 | 169 | 169 |     | 169 | 171 | 179 |     | 173 | 169 | 168 |     | 166 | 168 | 167 |     | 165 | 163 | 161 | 0   | 167 |
|    | 8  | *   | 162 | 167 | 169 |     | 171 | 171 | 171 |     | 168  | 167 | 169 |     | 170 | 171 | 171 |     | 172 | 171 | 170 |     | 170 | 168 | 167 |     | 167 | 165 | 164 |     | 164 | 164 | 162 | 0   | 168 |
|    | 9  |     | 163 | 166 | 168 |     | 164 | 162 | 159 |     | 157  | 159 | 164 |     | 167 | 170 | 169 |     | 167 | 168 | 168 |     | 166 | 164 | 161 |     | 161 | 161 | 163 |     | 162 | 160 | 156 | 0   | 164 |
|    | 10 | **  | 162 | 167 | 163 |     | 163 | 159 | 155 |     | 162  | 168 | 176 |     | 179 | 181 | 185 |     | 187 | 184 | 183 |     | 181 | 178 | 176 |     | 171 | 178 | 178 |     | 178 | 178 | 178 | 0   | 174 |
| 44 | 11 | *   | 181 | 181 | 179 |     | 171 | 165 | 166 |     | 168  | 170 | 175 |     | 179 | 181 | 181 |     | 181 | 179 | 180 |     | 177 | 177 | 176 |     | 175 | 173 | 173 |     | 174 | 173 | 171 | 0   | 175 |
|    | 12 | **  | 172 | 174 | 172 |     | 169 | 169 | 169 |     | 167  | 167 | 171 |     | 175 | 174 | 174 |     | 176 | 175 | 172 |     | 172 | 174 | 173 |     | 172 | 162 | 170 |     | 174 | 173 | 170 | 0   | 172 |
|    | 13 | **  | 173 | 174 | 172 |     | 165 | 164 | 167 |     | 168  | 166 | 172 |     | 178 | 177 | 178 |     | 177 | 176 | 173 |     | 172 | 170 | 168 |     | 163 | 172 | 170 |     | 171 | 173 | 172 | 0   | 171 |
|    | 14 | **  | 176 | 179 | 178 |     | 172 | 160 | 155 |     | 158  | 165 | 173 |     | 176 | 177 | 182 |     | 198 | 181 | 178 |     | 177 | 175 | 174 |     | 174 | 174 | 176 |     | 177 | 177 | 174 | 0   | 174 |
|    | 15 |     | 174 | 176 | 178 |     | 175 | 172 | 169 |     | 169  | 170 | 174 |     | 178 | 178 | 177 |     | 179 | 177 | 176 |     | 175 | 172 | 171 |     | 172 | 172 | 174 |     | 173 | 176 | 175 | 0   | 174 |
| 44 | 16 | *   | 177 | 178 | 176 |     | 174 | 174 | 172 |     | 169  | 168 | 173 |     | 177 | 179 | 180 |     | 181 | 181 | 180 |     | 179 | 175 | 172 |     | 171 | 171 | 172 |     | 173 | 174 | 173 | 0   | 175 |
|    | 17 |     | 175 | 180 | 180 |     | 176 | 173 | 171 |     | 167  | 162 | 168 |     | 174 | 175 | 177 |     | 179 | 179 | 177 |     | 175 | 172 | 170 |     | 170 | 169 | 170 |     | 170 | 170 | 168 | 0   | 173 |
|    | 18 |     | 170 | 176 | 179 |     | 179 | 176 | 175 |     | 179* | 164 | 161 |     | 165 | 167 | 168 |     | 170 | 170 | 169 |     | 167 | 165 | 159 |     | 157 | 157 | 153 |     | 159 | 160 | 163 | 0   | 167 |
|    | 19 |     | 167 | 170 | 171 |     | 164 | 158 | 156 |     | 154  | 157 | 160 |     | 164 | 165 | 168 |     | 168 | 167 | 168 |     | 167 | 165 | 162 |     | 160 | 157 | 156 |     | 159 | 162 | 159 | 0   | 163 |
|    | 20 |     | 163 | 166 | 163 |     | 160 | 160 | 160 |     | 155  | 152 | 156 |     | 160 | 162 | 165 |     | 167 | 167 | 167 |     | 167 | 164 | 161 |     | 160 | 158 | 155 |     | 156 | 156 | 155 | 0   | 161 |
| 44 | 21 |     | 162 | 169 | 170 |     | 164 | 161 | 162 |     | 161  | 160 | 164 |     | 165 | 166 | 168 |     | 169 | 171 | 170 |     | 169 | 166 | 164 |     | 163 | 162 | 162 |     | 158 | 161 | 158 | 0   | 164 |
|    | 22 |     | 160 | 169 | 176 |     | 175 | 171 | 171 |     | 170  | 168 | 169 |     | 170 | 171 | 171 |     | 172 | 172 | 172 |     | 170 | 170 | 167 |     | 165 | 164 | 162 |     | 163 | 162 | 161 | 0   | 168 |
|    | 23 |     | 164 | 169 | 172 |     | 172 | 169 | 166 |     | 161  | 161 | 166 |     | 169 | 167 | 167 |     | 167 | 168 | 169 |     | 168 | 167 | 165 |     | 161 | 161 | 162 |     | 165 | 163 | 162 | 0   | 166 |
|    | 24 | *   | 168 | 174 | 176 |     | 172 | 165 | 159 |     | 154  | 154 | 161 |     | 166 | 166 | 166 |     | 167 | 168 | 167 |     | 166 | 166 | 165 |     | 166 | 166 | 167 |     | 164 | 163 | 162 | 0   | 165 |
|    | 25 |     | 163 | 166 | 168 |     | 168 | 165 | 158 |     | 154  | 157 | 166 |     | 168 | 166 | 166 |     | 170 | 178 | 172 |     | 170 | 168 | 167 |     | 165 | 166 | 167 |     | 167 | 166 | 163 | 0   | 166 |
| 44 | 26 |     | 168 | 171 | 170 |     | 166 | 161 | 160 |     | 158  | 160 | 166 |     | 170 | 172 | 173 |     | 167 | 165 | 165 |     | 165 | 165 | 166 |     | 166 | 165 | 164 |     | 165 | 165 | 163 | 0   | 166 |
|    | 27 |     | 166 | 170 | 163 |     | 154 | 148 | 150 |     | 154  | 162 | 167 |     | 173 | 171 | 172 |     | 173 | 173 | 165 |     | 166 | 166 | 167 |     | 167 | 167 | 168 |     | 165 | 166 | 164 | 0   | 165 |
|    | 28 | **  | 165 | 169 | 167 |     | 161 | 159 | 155 |     | 162  | 166 | 175 |     | 181 | 181 | 178 |     | 179 | 178 | 175 |     | 173 | 173 | 171 |     | 171 | 169 | 171 |     | 173 | 174 | 174 | 0   | 171 |
|    | 29 |     | 174 | 175 | 171 |     | 161 | 154 | 155 |     | 158  | 164 | 169 |     | 173 | 174 | 175 |     | 178 | 177 | 173 |     | 171 | 171 | 169 |     | 167 | 167 | 166 |     | 167 | 168 | 167 | 0   | 169 |
|    | 30 |     | 173 | 173 | 170 |     | 166 | 162 | 159 |     | 158  | 161 | 170 |     | 174 | 175 | 178 |     | 181 | 177 | 177 |     | 174 | 172 | 169 |     | 168 | 168 | 169 |     | 169 | 170 | 160 | 0   | 170 |
| 44 |    | *   | 168 | 172 | 171 |     | 167 | 164 | 162 |     | 161  | 162 | 167 |     | 171 | 172 | 173 |     | 174 | 174 | 172 |     | 171 | 169 | 167 |     | 166 | 166 | 166 |     | 167 | 167 | 165 |     | 168 |
|    |    | *   | 171 | 174 | 174 |     | 171 | 168 | 166 |     | 163  | 163 | 168 |     | 172 | 173 | 173 |     | 174 | 174 | 173 |     | 172 | 171 | 169 |     | 169 | 168 | 168 |     | 168 | 168 | 166 |     | 170 |
|    | ** | 170 | 173 | 170 |     | 166 | 162 | 160 |     | 163 | 166  | 173 |     | 178 | 178 | 179 |     | 183 | 179 | 176 |     | 175 | 174 | 172 |     | 170 | 171 | 173 |     | 175 | 175 | 174 |     | 172 |     |

WATHEROO  
JUNE 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0654-1-3

WATHEROO  
JUNE 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0654-2-3

WATHEROO  
JUNE 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0654-3-3

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  |    | 067  | -022 | 032 | 007  | -004 | 022  | 005  | 000  |
| 2  |    | 044  | 016  | 054 | -014 | 040  | 041  | -006 | 031  |
| 3  |    | 042  | -004 | 045 | -010 | 005  | 011  | -011 | 013  |
| 4  |    | 160  | 035  | 003 | 101  | -043 | 003  | 001  | -016 |
| 5  | *  | 023  | 003  | 031 | 020  | -004 | 016  | -002 | -003 |
| 6  |    | 042  | -030 | 043 | -009 | 011  | 034  | -007 | -001 |
| 7  |    | 017  | 004  | 073 | 012  | -009 | 042  | -010 | -002 |
| 8  | *  | -004 | -040 | 063 | 052  | 011  | -005 | -044 | 022  |
| 9  |    | 028  | -007 | 008 | -019 | 017  | 001  | 020  | 014  |
| 10 | ** |      |      |     |      |      |      |      |      |
| 11 | *  |      |      |     |      |      |      |      |      |
| 12 | ** | 002  | 058  | 047 | 036  | -018 | 030  | -029 | 006  |
| 13 | ** | 018  | -057 | 012 | -018 | 019  | -001 | 008  | -001 |
| 14 | ** | 059  | 045  | 002 | -008 | 038  | 025  | -026 | -007 |
| 15 |    | 052  | -007 | 047 | 017  | -004 | 041  | -007 | 001  |
| 16 | *  | 037  | -020 | 036 | -004 | -013 | 016  | 002  | -008 |
| 17 |    | 034  | -008 | 028 | -026 | -002 | 015  | -007 | -011 |
| 18 |    | 108  | 045  | 026 | 040  | -029 | 055  | -022 | 003  |
| 19 |    | 046  | -041 | 048 | -020 | 003  | 008  | -012 | 003  |
| 20 |    | 044  | 032  | 038 | 015  | -010 | 021  | -001 | 000  |
| 21 |    | 038  | 017  | 039 | -003 | -004 | 044  | -021 | 001  |
| 22 |    | 061  | 002  | 073 | 023  | -010 | 031  | -002 | -001 |
| 23 |    | 013  | -011 | 041 | -006 | 000  | 036  | 007  | 018  |
| 24 | *  | 022  | -032 | 048 | -027 | 022  | 010  | -006 | -006 |
| 25 |    | 056  | 082  | 026 | -008 | -001 | 056  | 006  | -020 |
| 26 |    | 056  | -001 | 034 | 025  | 002  | -001 | -013 | 023  |
| 27 |    | 051  | -007 | 047 | 014  | 004  | 001  | -016 | -005 |
| 28 | ** | 055  | -035 | 069 | 028  | -025 | 021  | 017  | -022 |
| 29 |    | 030  | 017  | 028 | -003 | -015 | -002 | -011 | -026 |
| 30 |    | 063  | 065  | 012 | 025  | -014 | 012  | -007 | 008  |
|    |    |      |      |     |      |      |      |      |      |
|    | *  | 049  | 002  | 037 | 010  | -001 | 021  | -008 | 002  |
|    |    | 024  | -024 | 044 | 002  | 010  | 009  | -009 | 001  |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  |    | 020  | 016  | 013  | 055 | -033 | 019  | -015 | 002  |
| 2  |    | 019  | -046 | 035  | 069 | -034 | 003  | -008 | -010 |
| 3  |    | 013  | -018 | 044  | 063 | -029 | 023  | -010 | 009  |
| 4  |    | -029 | -031 | 034  | 069 | -030 | 001  | -012 | -020 |
| 5  | *  | 003  | 017  | 019  | 047 | -035 | -006 | -003 | -011 |
| 6  |    | 007  | -032 | 059  | 075 | -036 | 036  | -025 | -022 |
| 7  |    | 001  | -009 | 023  | 088 | -048 | 008  | -025 | -027 |
| 8  | *  | -014 | -011 | 042  | 059 | -026 | 014  | -008 | -006 |
| 9  |    | -015 | -024 | 038  | 070 | -024 | 015  | -028 | 005  |
| 10 | ** |      |      |      |     |      |      |      |      |
| 11 | *  |      |      |      |     |      |      |      |      |
| 12 | ** | -023 | -014 | 041  | 074 | 009  | 001  | 007  | -036 |
| 13 | ** | -024 | -009 | 048  | 058 | 001  | 016  | -018 | 004  |
| 14 | ** | 010  | -031 | 042  | 058 | -030 | 026  | -018 | 001  |
| 15 |    | 004  | 022  | 019  | 052 | -036 | 022  | -014 | -005 |
| 16 | *  | 011  | 009  | -002 | 079 | -034 | 001  | -005 | -009 |
| 17 |    | -020 | 009  | 004  | 072 | -045 | 016  | -011 | -014 |
| 18 |    | -022 | 029  | -006 | 067 | -031 | -007 | -006 | -026 |
| 19 |    | -024 | 025  | 024  | 061 | -006 | 023  | -012 | 010  |
| 20 |    | -019 | -005 | 002  | 064 | -034 | -002 | -012 | -004 |
| 21 |    | -040 | -019 | 025  | 059 | -028 | 033  | -028 | 007  |
| 22 |    | -062 | 018  | 013  | 047 | -025 | -009 | -011 | -004 |
| 23 |    | -021 | 013  | 034  | 067 | -037 | 006  | -020 | -030 |
| 24 | *  | 007  | 019  | 028  | 085 | -056 | 024  | -023 | -010 |
| 25 |    | -005 | -017 | 036  | 078 | -032 | 011  | -019 | -017 |
| 26 |    | 003  | 038  | 019  | 080 | -044 | 033  | -015 | -003 |
| 27 |    | -014 | -031 | 047  | 078 | -030 | 046  | -035 | 017  |
| 28 | ** | 017  | -077 | 056  | 086 | -045 | 019  | -013 | -034 |
| 29 |    | 017  | -038 | 037  | 079 | -007 | 032  | -027 | 009  |
| 30 |    | -012 | -004 | -005 | 092 | -065 | 038  | -048 | 004  |
|    |    |      |      |      |     |      |      |      |      |
|    | *  | -005 | -010 | 030  | 069 | -031 | 017  | -017 | -008 |
|    |    | 005  | 002  | 023  | 071 | -035 | 014  | -013 | -008 |

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  |    | -005 | -005 | 056  | 018  | 001  | 016  | -007 | 018  |
| 2  |    | -027 | -039 | 051  | 022  | -012 | 002  | 002  | -006 |
| 3  |    | -017 | -009 | 044  | 024  | 002  | 028  | -007 | 014  |
| 4  |    | -062 | -028 | 042  | 000  | 007  | 028  | -016 | 002  |
| 5  | *  | -011 | -021 | 028  | 028  | -013 | 015  | -009 | 003  |
| 6  |    | -024 | -013 | 026  | 036  | -009 | 023  | -020 | 000  |
| 7  |    | -021 | -034 | 030  | 032  | -006 | 027  | -036 | 009  |
| 8  | *  | -030 | 015  | -004 | 017  | -015 | 002  | -005 | -006 |
| 9  |    | -028 | -003 | 026  | 016  | -014 | 019  | -022 | 001  |
| 10 | ** | -068 | -077 | 056  | -031 | -001 | -005 | -019 | -005 |
| 11 | *  | -024 | -022 | 044  | 010  | 007  | 031  | -007 | 014  |
| 12 | ** | -014 | -008 | 026  | 007  | 004  | 007  | -002 | -012 |
| 13 | ** | -023 | -005 | 048  | -009 | 002  | 006  | -005 | 002  |
| 14 | ** | -029 | -056 | 082  | 007  | -017 | 026  | -012 | 019  |
| 15 |    | -009 | -002 | 034  | 005  | -007 | 010  | -013 | -001 |
| 16 | *  | -023 | -006 | 038  | 023  | -006 | 004  | -007 | -004 |
| 17 |    | -010 | -001 | 036  | 041  | -021 | 015  | -010 | 002  |
| 18 |    | 000  | 071  | 010  | 070  | -010 | -005 | 007  | 000  |
| 19 |    | -015 | -008 | 044  | 039  | 004  | 026  | -011 | 003  |
| 20 |    | -025 | -014 | 023  | 045  | -007 | 012  | 002  | 002  |
| 21 |    | -029 | -006 | 017  | 032  | -006 | 013  | -011 | 013  |
| 22 |    | -032 | 027  | -006 | 034  | -016 | 008  | -015 | -002 |
| 23 |    | -009 | 013  | 013  | 030  | -009 | 011  | -023 | -011 |
| 24 | *  | 015  | -017 | 028  | 035  | -024 | 037  | -023 | 005  |
| 25 |    | 015  | -017 | 027  | 023  | -015 | 006  | -030 | 001  |
| 26 |    | -008 | -006 | 032  | 001  | -008 | 037  | -008 | -003 |
| 27 |    | -035 | -047 | 055  | -026 | 009  | 034  | -006 | 024  |
| 28 | ** | -050 | -041 | 055  | -030 | 008  | 017  | -017 | -004 |
| 29 |    | -033 | -035 | 063  | 005  | 013  | 030  | -006 | 022  |
| 30 |    | -042 | -034 | 052  | 014  | -010 | 022  | -017 | 007  |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | -023 | -015 | 036  | 017  | -007 | 015  | -012 | 003  |
|    |    | -014 | -010 | 027  | 022  | -010 | 019  | -011 | 000  |



WATHEROO  
JULY, 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0754-1-3

|    |    | 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  | **  | 894 | 890 | 891 | 894 | 886 | 863 | 848 | 855 | 869  | 870 | 871 | 871 | 867 | 867 | 869 | 870 | 873 | 873 | 876 | 878 | 880 | 881 | 881 | 884 | 0   | 875 |
|    | 2  | *   | 887 | 891 | 892 | 888 | 882 | 880 | 878 | 876 | 878  | 882 | 881 | 881 | 882 | 881 | 884 | 878 | 875 | 874 | 874 | 874 | 877 | 880 | 882 | 885 | 0   | 881 |
|    | 3  | *   | 889 | 894 | 894 | 897 | 892 | 884 | 878 | 884 | 889  | 892 | 892 | 890 | 887 | 884 | 883 | 883 | 881 | 883 | 886 | 888 | 889 | 892 | 896 | 895 | 0   | 888 |
|    | 4  | *   | 895 | 895 | 893 | 892 | 891 | 887 | 881 | 877 | 882  | 888 | 886 | 882 | 876 | 875 | 879 | 881 | 881 | 881 | 882 | 884 | 885 | 887 | 889 | 890 | 0   | 885 |
|    | 5  |     | 895 | 896 | 893 | 889 | 883 | 876 | 877 | 880 | 886  | 890 | 889 | 888 | 887 | 884 | 880 | 881 | 881 | 879 | 879 | 879 | 884 | 886 | 891 | 895 | 0   | 885 |
|    | 6  |     | 901 | 902 | 904 | 902 | 895 | 883 | 876 | 868 | 865  | 861 | 860 | 853 | 862 | 868 | 871 | 871 | 872 | 874 | 871 | 865 | 878 | 880 | 880 | 881 | 0   | 877 |
|    | 7  |     | 882 | 885 | 885 | 886 | 888 | 881 | 873 | 870 | 875  | 872 | 854 | 857 | 867 | 868 | 871 | 873 | 876 | 877 | 878 | 877 | 877 | 879 | 880 | 885 | 0   | 876 |
|    | 8  |     | 892 | 895 | 894 | 892 | 890 | 882 | 878 | 880 | 882  | 885 | 882 | 871 | 868 | 874 | 875 | 874 | 874 | 876 | 872 | 878 | 874 | 875 | 877 | 879 | 0   | 880 |
|    | 9  | *   | 881 | 887 | 885 | 883 | 883 | 882 | 877 | 874 | 878  | 884 | 886 | 883 | 883 | 881 | 881 | 881 | 883 | 884 | 887 | 886 | 886 | 890 | 894 | 0   | 883 |     |
|    | 10 | *   | 893 | 892 | 891 | 889 | 884 | 881 | 884 | 883 | 880  | 884 | 885 | 884 | 883 | 880 | 885 | 884 | 884 | 884 | 886 | 887 | 887 | 887 | 887 | 892 | 0   | 886 |
| 98 | 11 |     | 896 | 898 | 902 | 900 | 897 | 885 | 881 | 884 | 890  | 892 | 893 | 889 | 889 | 889 | 888 | 889 | 888 | 889 | 892 | 892 | 894 | 895 | 896 | 897 | 0   | 892 |
|    | 12 |     | 894 | 895 | 889 | 881 | 881 | 887 | 891 | 892 | 893  | 898 | 896 | 895 | 893 | 891 | 886 | 871 | 867 | 873 | 878 | 882 | 883 | 886 | 883 | 878 | 0   | 886 |
|    | 13 |     | 891 | 896 | 895 | 890 | 887 | 881 | 879 | 878 | 880  | 883 | 886 | 886 | 881 | 879 | 880 | 877 | 879 | 879 | 883 | 881 | 883 | 883 | 886 | 888 | 0   | 884 |
|    | 14 | **  | 888 | 894 | 895 | 885 | 875 | 870 | 876 | 878 | 883  | 882 | 874 | 868 | 870 | 880 | 878 | 876 | 880 | 872 | 876 | 877 | 879 | 883 | 884 | 883 | 1   | 879 |
|    | 15 |     | 889 | 897 | 897 | 897 | 886 | 879 | 867 | 857 | 869  | 875 | 866 | 847 | 865 | 863 | 854 | 867 | 872 | 875 | 877 | 877 | 878 | 879 | 880 | 883 | 0   | 875 |
|    | 16 |     | 888 | 890 | 886 | 883 | 882 | 874 | 871 | 870 | 872  | 878 | 882 | 878 | 881 | 881 | 878 | 877 | 877 | 878 | 881 | 888 | 894 | 886 | 878 | 881 | 0   | 881 |
|    | 17 |     | 885 | 886 | 889 | 878 | 867 | 865 | 859 | 861 | 865  | 867 | 872 | 873 | 875 | 873 | 874 | 873 | 873 | 874 | 877 | 880 | 879 | 885 | 891 | 891 | 0   | 876 |
|    | 18 |     | 889 | 908 | 891 | 881 | 874 | 874 | 870 | 870 | 876  | 885 | 888 | 885 | 882 | 880 | 880 | 879 | 877 | 876 | 882 | 879 | 881 | 884 | 885 | 887 | 0   | 882 |
|    | 19 |     | 887 | 888 | 891 | 889 | 888 | 883 | 873 | 875 | 880* | 884 | 884 | 878 | 880 | 883 | 883 | 889 | 887 | 887 | 886 | 889 | 893 | 884 | 884 | 890 | 0   | 885 |
|    | 20 |     | 891 | 887 | 883 | 880 | 878 | 872 | 873 | 873 | 876  | 882 | 885 | 885 | 883 | 880 | 883 | 878 | 879 | 877 | 879 | 879 | 880 | 882 | 884 | 887 | 0   | 881 |
|    | 21 |     | 891 | 894 | 893 | 887 | 880 | 882 | 876 | 879 | 887  | 890 | 890 | 888 | 885 | 885 | 882 | 875 | 874 | 880 | 878 | 882 | 884 | 887 | 892 | 893 | 0   | 885 |
|    | 22 |     | 894 | 896 | 889 | 885 | 886 | 883 | 878 | 872 | 875  | 884 | 884 | 878 | 879 | 879 | 879 | 879 | 879 | 880 | 881 | 882 | 883 | 884 | 886 | 890 | 0   | 883 |
|    | 23 |     | 893 | 893 | 894 | 897 | 893 | 888 | 882 | 875 | 880  | 887 | 884 | 874 | 874 | 874 | 873 | 875 | 876 | 877 | 878 | 879 | 881 | 884 | 886 | 889 | 0   | 883 |
|    | 24 |     | 887 | 883 | 889 | 888 | 883 | 868 | 864 | 869 | 872  | 876 | 880 | 876 | 874 | 878 | 875 | 876 | 877 | 877 | 878 | 879 | 879 | 880 | 883 | 886 | 0   | 878 |
|    | 25 | **  | 890 | 896 | 893 | 887 | 883 | 873 | 864 | 852 | 855  | 866 | 865 | 838 | 840 | 850 | 858 | 864 | 867 | 872 | 874 | 875 | 877 | 877 | 876 | 878 | 1   | 870 |
|    | 26 |     | 889 | 891 | 889 | 877 | 871 | 871 | 865 | 869 | 875  | 878 | 881 | 869 | 851 | 864 | 874 | 872 | 874 | 876 | 875 | 877 | 878 | 880 | 883 | 890 | 0   | 876 |
|    | 27 | **  | 897 | 900 | 884 | 876 | 877 | 876 | 871 | 868 | 868  | 873 | 877 | 876 | 870 | 866 | 865 | 870 | 873 | 874 | 879 | 879 | 882 | 881 | 885 | 885 | 0   | 877 |
|    | 28 | **  | 893 | 901 | 897 | 887 | 865 | 865 | 867 | 872 | 875  | 875 | 849 | 840 | 839 | 852 | 858 | 855 | 873 | 885 | 869 | 869 | 870 | 875 | 872 | 875 | 1   | 870 |
|    | 29 |     | 881 | 877 | 872 | 879 | 874 | 858 | 858 | 866 | 867  | 870 | 874 | 872 | 870 | 881 | 874 | 871 | 873 | 873 | 877 | 876 | 880 | 881 | 883 | 888 | 0   | 874 |
|    | 30 |     | 891 | 886 | 889 | 883 | 875 | 872 | 876 | 877 | 878  | 878 | 882 | 881 | 878 | 883 | 884 | 878 | 877 | 879 | 880 | 881 | 884 | 886 | 887 | 888 | 0   | 881 |
| 31 |    | 887 | 889 | 887 | 878 | 874 | 880 | 878 | 866 | 856 | 866  | 874 | 876 | 873 | 880 | 871 | 870 | 872 | 874 | 876 | 877 | 879 | 882 | 877 | 882 | 0   | 876 |     |
|    |    | *   | 890 | 893 | 891 | 887 | 882 | 877 | 873 | 873 | 876  | 880 | 879 | 875 | 874 | 876 | 876 | 875 | 877 | 878 | 879 | 880 | 882 | 883 | 884 | 887 |     | 880 |
|    |    | *   | 889 | 892 | 891 | 890 | 886 | 883 | 880 | 879 | 881  | 886 | 886 | 884 | 882 | 880 | 882 | 881 | 881 | 881 | 882 | 884 | 885 | 886 | 889 | 891 |     | 885 |
|    |    | **  | 892 | 896 | 892 | 886 | 877 | 869 | 865 | 865 | 870  | 873 | 867 | 859 | 857 | 863 | 866 | 867 | 873 | 875 | 875 | 876 | 878 | 879 | 880 | 881 |     | 874 |

WATHEROO  
JULY 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

2-0754-2-3

|    |    | 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  | ** | 434 | 446 | 449 | 447 | 444 | 435 | 428 | 425 | 434 | 437 | 446 | 448 | 449 | 462 | 460 | 454 | 454 | 449 | 448 | 448 | 448 | 447 | 445 | 0 | 445 |
|    | 2  | *  | 447 | 453 | 456 | 456 | 456 | 454 | 446 | 445 | 443 | 446 | 447 | 447 | 448 | 454 | 455 | 454 | 451 | 452 | 452 | 451 | 451 | 446 | 448 | 0 | 450 |
|    | 3  | *  | 444 | 455 | 459 | 458 | 453 | 442 | 436 | 435 | 438 | 445 | 448 | 449 | 453 | 454 | 455 | 455 | 449 | 446 | 446 | 445 | 446 | 445 | 445 | 0 | 448 |
|    | 4  | *  | 447 | 455 | 459 | 460 | 453 | 446 | 444 | 439 | 439 | 444 | 446 | 446 | 446 | 450 | 455 | 454 | 449 | 448 | 448 | 448 | 447 | 446 | 446 | 0 | 448 |
|    | 5  |    | 448 | 458 | 465 | 458 | 456 | 449 | 443 | 431 | 435 | 445 | 449 | 454 | 454 | 455 | 456 | 455 | 455 | 454 | 454 | 443 | 445 | 442 | 438 | 0 | 449 |
|    | 6  |    | 437 | 447 | 453 | 450 | 446 | 436 | 434 | 428 | 416 | 416 | 437 | 437 | 455 | 456 | 456 | 453 | 449 | 447 | 456 | 452 | 449 | 455 | 456 | 0 | 445 |
|    | 7  |    | 448 | 448 | 450 | 449 | 447 | 440 | 434 | 435 | 435 | 438 | 452 | 446 | 448 | 456 | 457 | 456 | 456 | 452 | 449 | 447 | 447 | 446 | 445 | 0 | 447 |
|    | 8  |    | 445 | 454 | 458 | 458 | 455 | 452 | 448 | 446 | 444 | 447 | 447 | 446 | 447 | 455 | 455 | 456 | 453 | 454 | 454 | 452 | 448 | 446 | 446 | 0 | 450 |
|    | 9  | *  | 446 | 451 | 453 | 447 | 448 | 447 | 443 | 435 | 437 | 449 | 454 | 455 | 454 | 454 | 454 | 453 | 449 | 447 | 446 | 445 | 446 | 444 | 447 | 0 | 448 |
|    | 10 | *  | 446 | 451 | 454 | 448 | 439 | 437 | 433 | 428 | 434 | 443 | 450 | 454 | 455 | 456 | 458 | 456 | 453 | 447 | 446 | 445 | 446 | 446 | 447 | 0 | 447 |
|    | 11 |    | 444 | 453 | 458 | 459 | 456 | 457 | 451 | 444 | 438 | 445 | 448 | 449 | 454 | 452 | 453 | 450 | 449 | 447 | 445 | 444 | 445 | 444 | 443 | 0 | 449 |
|    | 12 |    | 443 | 459 | 462 | 459 | 449 | 446 | 436 | 434 | 434 | 444 | 448 | 451 | 454 | 455 | 455 | 466 | 477 | 456 | 448 | 445 | 446 | 446 | 449 | 0 | 450 |
|    | 13 |    | 436 | 445 | 451 | 458 | 457 | 455 | 448 | 440 | 438 | 440 | 447 | 448 | 450 | 455 | 459 | 458 | 456 | 456 | 456 | 447 | 446 | 445 | 444 | 0 | 449 |
|    | 14 | ** | 436 | 449 | 455 | 454 | 449 | 446 | 433 | 434 | 434 | 436 | 449 | 439 | 450 | 456 | 462 | 467 | 485 | 456 | 448 | 443 | 443 | 441 | 443 | 1 | 448 |
| 28 | 15 |    | 443 | 454 | 466 | 463 | 456 | 437 | 427 | 424 | 427 | 437 | 433 | 448 | 448 | 454 | 466 | 458 | 450 | 448 | 446 | 446 | 445 | 446 | 446 | 0 | 446 |
|    | 16 |    | 446 | 456 | 465 | 474 | 468 | 456 | 443 | 432 | 434 | 435 | 444 | 445 | 467 | 454 | 455 | 454 | 455 | 447 | 447 | 446 | 443 | 449 | 438 | 0 | 450 |
|    | 17 |    | 449 | 457 | 464 | 458 | 454 | 455 | 444 | 439 | 433 | 443 | 448 | 449 | 451 | 453 | 452 | 448 | 446 | 445 | 443 | 442 | 443 | 443 | 445 | 0 | 448 |
|    | 18 |    | 424 | 437 | 455 | 456 | 452 | 448 | 436 | 435 | 439 | 446 | 451 | 453 | 453 | 453 | 452 | 454 | 449 | 451 | 448 | 446 | 444 | 444 | 434 | 0 | 446 |
|    | 19 |    | 436 | 446 | 456 | 462 | 459 | 449 | 443 | 437 | 438 | 444 | 448 | 448 | 456 | 450 | 450 | 450 | 456 | 449 | 453 | 449 | 447 | 447 | 443 | 0 | 448 |
|    | 20 |    | 448 | 459 | 470 | 466 | 452 | 429 | 419 | 423 | 429 | 448 | 447 | 447 | 451 | 453 | 455 | 452 | 453 | 450 | 447 | 444 | 445 | 446 | 446 | 0 | 447 |
|    | 21 |    | 454 | 459 | 467 | 467 | 462 | 456 | 438 | 437 | 442 | 449 | 451 | 448 | 452 | 453 | 454 | 454 | 453 | 452 | 449 | 445 | 448 | 447 | 443 | 0 | 451 |
|    | 22 |    | 444 | 454 | 465 | 465 | 457 | 445 | 438 | 429 | 432 | 439 | 445 | 447 | 447 | 449 | 454 | 455 | 453 | 449 | 445 | 445 | 447 | 446 | 446 | 0 | 448 |
|    | 23 |    | 448 | 457 | 467 | 467 | 463 | 456 | 446 | 436 | 435 | 439 | 444 | 451 | 445 | 449 | 452 | 451 | 448 | 446 | 446 | 444 | 443 | 443 | 443 | 0 | 448 |
|    | 24 |    | 448 | 446 | 459 | 460 | 454 | 438 | 427 | 422 | 427 | 438 | 442 | 444 | 449 | 450 | 454 | 451 | 453 | 449 | 444 | 441 | 444 | 444 | 445 | 0 | 445 |
|    | 25 | ** | 449 | 459 | 464 | 463 | 453 | 439 | 423 | 415 | 415 | 437 | 440 | 446 | 449 | 453 | 457 | 455 | 455 | 446 | 441 | 443 | 442 | 445 | 445 | 1 | 445 |
|    | 26 |    | 444 | 462 | 466 | 474 | 464 | 454 | 446 | 435 | 435 | 438 | 444 | 440 | 453 | 446 | 457 | 450 | 449 | 447 | 446 | 442 | 445 | 444 | 444 | 0 | 449 |
|    | 27 | ** | 446 | 456 | 463 | 467 | 466 | 453 | 444 | 435 | 435 | 441 | 445 | 450 | 457 | 458 | 458 | 452 | 447 | 445 | 446 | 443 | 442 | 437 | 436 | 0 | 448 |
|    | 28 | ** | 434 | 454 | 459 | 462 | 449 | 447 | 435 | 433 | 432 | 431 | 427 | 457 | 451 | 448 | 457 | 467 | 464 | 461 | 452 | 449 | 444 | 438 | 435 | 1 | 447 |
|    | 29 |    | 451 | 459 | 469 | 468 | 462 | 450 | 444 | 433 | 429 | 438 | 444 | 457 | 447 | 466 | 459 | 454 | 455 | 447 | 452 | 440 | 445 | 443 | 440 | 0 | 450 |
|    | 30 |    | 446 | 448 | 467 | 472 | 466 | 446 | 437 | 430 | 436 | 443 | 446 | 446 | 454 | 452 | 452 | 454 | 455 | 446 | 444 | 444 | 444 | 444 | 444 | 0 | 448 |
|    | 31 |    | 446 | 466 | 473 | 465 | 454 | 436 | 423 | 419 | 425 | 433 | 444 | 446 | 451 | 479 | 455 | 456 | 450 | 446 | 448 | 446 | 446 | 444 | 443 | 0 | 447 |
|    |    | *  | 444 | 453 | 461 | 460 | 455 | 446 | 438 | 433 | 434 | 440 | 446 | 448 | 452 | 455 | 456 | 455 | 454 | 449 | 448 | 446 | 446 | 445 | 444 |   | 448 |
|    |    | *  | 446 | 453 | 456 | 454 | 450 | 445 | 440 | 436 | 438 | 445 | 449 | 450 | 451 | 454 | 455 | 454 | 450 | 448 | 448 | 447 | 447 | 445 | 447 |   | 448 |
|    |    | ** | 440 | 453 | 458 | 459 | 452 | 444 | 433 | 428 | 430 | 436 | 441 | 448 | 451 | 455 | 459 | 459 | 461 | 451 | 447 | 445 | 444 | 442 | 441 |   | 446 |

WATHEROO  
JULY 1954  
VERTICAL INTENSITY/  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0754-3-3

|    |    | 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  | **  | 171 | 176 | 177 | 168 | 164 | 165 |     | 170 | 172 | 175  |     | 179 | 183 | 183 |     | 186 | 190 | 186 |     | 180 | 175 | 172 |     | 171 | 171 | 171 |     | 174 | 174 | 172 | 0   | 175 |
|    | 2  | *   | 176 | 177 | 176 | 169 | 167 | 170 |     | 170 | 171 | 171  |     | 174 | 176 | 177 |     | 180 | 182 | 181 |     | 180 | 177 | 177 |     | 172 | 172 | 172 |     | 171 | 172 | 169 | 0   | 174 |
|    | 3  | *   | 177 | 183 | 184 | 176 | 169 | 164 |     | 164 | 168 | 173  |     | 175 | 176 | 178 |     | 181 | 182 | 182 |     | 181 | 178 | 174 |     | 174 | 172 | 172 |     | 172 | 171 | 172 | 0   | 175 |
|    | 4  | *   | 180 | 186 | 186 | 177 | 173 | 174 |     | 172 | 174 | 176  |     | 176 | 177 | 181 |     | 186 | 188 | 187 |     | 184 | 183 | 180 |     | 179 | 179 | 178 |     | 177 | 176 | 176 | 0   | 179 |
|    | 5  |     | 183 | 186 | 191 |     | 190 | 189 | 185 |     | 178 | 173  | 177 |     | 183 | 183 | 185 |     | 187 | 189 | 192 |     | 191 | 188 | 185 |     | 182 | 177 | 177 |     | 176 | 175 | 174 | 0   |
|    | 6  |     | 179 | 184 | 187 | 187 | 187 | 179 |     | 176 | 180 | 183  |     | 186 | 200 | 203 |     | 207 | 203 | 199 |     | 196 | 196 | 193 |     | 196 | 194 | 187 |     | 188 | 187 | 184 | 0   | 190 |
|    | 7  |     | 183 | 187 | 187 | 187 | 188 | 186 |     | 184 | 186 | 191  |     | 195 | 202 | 202 |     | 196 | 199 | 198 |     | 197 | 195 | 194 |     | 192 | 192 | 192 |     | 192 | 191 | 188 | 0   | 192 |
|    | 8  |     | 192 | 196 | 197 | 193 | 188 | 190 |     | 191 | 189 | 190  |     | 192 | 192 | 196 |     | 199 | 199 | 198 |     | 198 | 195 | 196 |     | 196 | 194 | 191 |     | 190 | 189 | 188 | 0   | 193 |
|    | 9  | *   | 191 | 190 | 187 | 185 | 185 | 185 |     | 183 | 185 | 190  |     | 195 | 194 | 194 |     | 193 | 193 | 193 |     | 193 | 191 | 190 |     | 189 | 189 | 189 |     | 188 | 188 | 185 | 0   | 189 |
|    | 10 | *   | 189 | 194 | 190 | 184 | 181 | 180 |     | 181 | 185 | 192  |     | 195 | 195 | 194 |     | 194 | 195 | 193 |     | 191 | 189 | 189 |     | 189 | 189 | 189 |     | 190 | 189 | 186 | 0   | 189 |
| 8  | 11 |     | 180 | 185 | 186 | 180 | 173 | 179 |     | 181 | 181 | 181  |     | 184 | 186 | 187 |     | 187 | 184 | 183 |     | 182 | 182 | 182 |     | 181 | 182 | 182 |     | 182 | 180 | 179 | 0   | 182 |
|    | 12 |     | 180 | 186 | 187 | 180 | 175 | 171 |     | 169 | 169 | 177  |     | 182 | 183 | 183 |     | 185 | 183 | 183 |     | 191 | 196 | 183 |     | 178 | 178 | 180 |     | 181 | 182 | 174 | 0   | 181 |
|    | 13 |     | 172 | 177 | 176 | 175 | 171 | 168 |     | 170 | 172 | 176  |     | 180 | 181 | 182 |     | 184 | 186 | 185 |     | 182 | 180 | 178 |     | 176 | 173 | 174 |     | 176 | 174 | 173 | 0   | 177 |
|    | 14 | **  | 166 | 172 | 174 | 171 | 171 | 164 |     | 157 | 164 | 169  |     | 174 | 183 | 181 |     | 185 | 178 | 178 |     | 181 | 182 | 169 |     | 165 | 166 | 169 |     | 170 | 170 | 169 | 1   | 172 |
|    | 15 |     | 170 | 173 | 173 | 163 | 155 | 151 |     | 155 | 161 | 167  |     | 171 | 172 | 190 |     | 182 | 182 | 188 |     | 174 | 167 | 166 |     | 164 | 166 | 167 |     | 168 | 169 | 167 | 0   | 169 |
|    | 16 |     | 162 | 166 | 171 | 168 | 162 | 147 |     | 144 | 148 | 159  |     | 165 | 168 | 171 |     | 180 | 171 | 171 |     | 168 | 167 | 159 |     | 159 | 159 | 156 |     | 163 | 163 | 164 | 0   | 163 |
|    | 17 |     | 168 | 171 | 164 | 161 | 158 | 154 |     | 152 | 158 | 159  |     | 165 | 167 | 169 |     | 170 | 169 | 168 |     | 167 | 165 | 163 |     | 162 | 160 | 162 |     | 163 | 163 | 160 | 0   | 163 |
|    | 18 |     | 159 | 162 | 173 | 166 | 161 | 155 |     | 149 | 156 | 161  |     | 164 | 164 | 165 |     | 167 | 168 | 166 |     | 164 | 164 | 162 |     | 159 | 159 | 156 |     | 156 | 157 | 156 | 0   | 161 |
|    | 19 |     | 161 | 167 | 168 | 163 | 159 | 152 |     | 150 | 152 | 158* |     | 158 | 162 | 167 |     | 171 | 166 | 166 |     | 163 | 164 | 159 |     | 160 | 156 | 153 |     | 156 | 155 | 156 | 0   | 160 |
|    | 20 |     | 161 | 170 | 173 | 167 | 151 | 141 |     | 142 | 150 | 158  |     | 166 | 162 | 162 |     | 164 | 166 | 166 |     | 166 | 165 | 163 |     | 159 | 158 | 157 |     | 157 | 157 | 156 | 0   | 160 |
|    | 21 |     | 163 | 166 | 169 | 165 | 157 | 148 |     | 148 | 153 | 159  |     | 162 | 163 | 163 |     | 166 | 168 | 170 |     | 172 | 170 | 166 |     | 164 | 160 | 160 |     | 158 | 154 | 156 | 0   | 162 |
|    | 22 |     | 161 | 165 | 163 | 160 | 158 | 151 |     | 152 | 156 | 158  |     | 160 | 161 | 163 |     | 163 | 165 | 166 |     | 166 | 165 | 163 |     | 159 | 159 | 159 |     | 158 | 156 | 154 | 0   | 160 |
|    | 23 |     | 157 | 160 | 162 | 163 | 157 | 152 |     | 151 | 152 | 153  |     | 157 | 158 | 167 |     | 162 | 163 | 164 |     | 162 | 161 | 160 |     | 160 | 158 | 155 |     | 151 | 153 | 152 | 0   | 158 |
|    | 24 |     | 162 | 162 | 167 | 162 | 157 | 151 |     | 152 | 152 | 158  |     | 163 | 162 | 163 |     | 166 | 165 | 166 |     | 164 | 164 | 163 |     | 161 | 158 | 160 |     | 160 | 158 | 158 | 0   | 161 |
|    | 25 | **  | 162 | 165 | 163 | 159 | 155 | 148 |     | 146 | 153 | 160  |     | 170 | 167 | 183 |     | 179 | 175 | 172 |     | 167 | 166 | 161 |     | 161 | 162 | 162 |     | 163 | 163 | 160 | 1   | 163 |
|    | 26 |     | 166 | 172 | 174 | 168 | 161 | 154 |     | 153 | 157 | 162  |     | 167 | 167 | 168 |     | 182 | 170 | 170 |     | 167 | 166 | 164 |     | 165 | 164 | 167 |     | 166 | 165 | 161 | 0   | 166 |
|    | 27 | **  | 160 | 165 | 170 | 173 | 169 | 157 |     | 154 | 155 | 161  |     | 166 | 166 | 168 |     | 172 | 173 | 169 |     | 164 | 160 | 159 |     | 160 | 160 | 163 |     | 162 | 161 | 157 | 0   | 164 |
|    | 28 | **  | 161 | 167 | 162 | 155 | 152 | 152 |     | 150 | 153 | 159  |     | 163 | 174 | 191 |     | 187 | 178 | 175 |     | 178 | 171 | 158 |     | 160 | 161 | 161 |     | 161 | 162 | 163 | 1   | 165 |
|    | 29 |     | 175 | 178 | 184 | 174 | 159 | 159 |     | 162 | 164 | 167  |     | 174 | 173 | 182 |     | 176 | 179 | 176 |     | 170 | 168 | 164 |     | 166 | 162 | 164 |     | 164 | 164 | 163 | 0   | 169 |
|    | 30 |     | 168 | 173 | 178 | 174 | 162 | 143 |     | 142 | 149 | 160  |     | 167 | 168 | 170 |     | 175 | 171 | 169 |     | 170 | 168 | 163 |     | 160 | 161 | 161 |     | 162 | 163 | 164 | 0   | 164 |
| 31 |    | 171 | 176 | 172 | 161 | 154 | 148 |     | 145 | 154 | 165 |      | 169 | 171 | 171 |     | 176 | 187 | 174 |     | 171 | 166 | 162 |     | 162 | 161 | 161 |     | 161 | 162 | 162 | 0   | 165 |     |
|    |    | *   | 171 | 175 | 176 | 172 | 167 | 162 |     | 161 | 164 | 169  |     | 173 | 175 | 179 |     | 180 | 180 | 179 |     | 177 | 175 | 172 |     | 170 | 169 | 169 |     | 170 | 169 | 168 |     | 172 |
|    |    | *   | 183 | 186 | 185 | 178 | 175 | 175 |     | 174 | 177 | 180  |     | 183 | 184 | 185 |     | 187 | 188 | 187 |     | 186 | 184 | 182 |     | 181 | 180 | 180 |     | 180 | 179 | 178 |     | 182 |
|    |    | **  | 164 | 169 | 169 | 165 | 162 | 157 |     | 155 | 159 | 165  |     | 170 | 175 | 181 |     | 182 | 179 | 176 |     | 174 | 171 | 164 |     | 163 | 164 | 165 |     | 166 | 166 | 164 |     | 168 |

WATHEROO  
JULY 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0754-1-3

WATHEROO  
JULY 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0754-2-3

WATHEROO  
JULY 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0754-3-3

|    |    | A1 | B1   | A2   | B2   | A3   | B3   | A4   | B4   |      |
|----|----|----|------|------|------|------|------|------|------|------|
| 68 | 1  | ** | 112  | -019 | 055  | 042  | -030 | 061  | -036 | -024 |
|    | 2  | *  | 026  | 031  | 044  | 031  | -003 | 008  | -014 | 003  |
|    | 3  | *  | 037  | 016  | 038  | -011 | -019 | 020  | -020 | -019 |
|    | 4  | *  | 062  | 026  | 018  | 007  | -002 | 027  | -010 | -021 |
|    | 5  |    | 032  | 017  | 068  | 000  | 008  | 028  | -010 | -006 |
|    | 6  |    | 161  | 056  | 000  | 099  | 002  | 012  | -023 | 007  |
|    | 7  |    | 097  | 010  | -030 | 034  | 011  | -003 | -014 | 001  |
|    | 8  |    | 054  | 066  | 007  | 029  | 009  | 042  | -025 | 004  |
|    | 9  | *  | 029  | -020 | 024  | -007 | -012 | 008  | 002  | -021 |
|    | 10 | *  | 039  | -004 | 019  | 007  | 004  | 016  | 000  | 003  |
|    | 11 |    | 047  | 000  | 029  | 011  | -017 | 027  | -024 | -011 |
|    | 12 |    | -025 | 069  | 058  | -037 | -016 | 009  | 002  | 045  |
|    | 13 |    | 045  | 023  | 035  | 016  | -013 | 031  | -002 | -001 |
|    | 14 | ** | 058  | 014  | 029  | 015  | 029  | 024  | -044 | 025  |
|    | 15 |    | 150  | 029  | -004 | 041  | -015 | 056  | -026 | -011 |
|    | 16 |    | 045  | -028 | 028  | 004  | -038 | 022  | -017 | 016  |
|    | 17 |    | 085  | -052 | 069  | 011  | -006 | 017  | -008 | -004 |
|    | 18 |    | 040  | -006 | 075  | 014  | -002 | 050  | -009 | 011  |
|    | 19 |    | 037  | -028 | 003  | 019  | -011 | 022  | -022 | -012 |
|    | 20 |    | 018  | -013 | 056  | 005  | 001  | 019  | 002  | -004 |
|    | 21 |    | 031  | 022  | 065  | -014 | -006 | 021  | -009 | 001  |
|    | 22 |    | 057  | 007  | 034  | 016  | -002 | 021  | 004  | -007 |
|    | 23 |    | 075  | 054  | 014  | 015  | -009 | 024  | -012 | -023 |
|    | 24 |    | 052  | -013 | 040  | 023  | -014 | 032  | -019 | -016 |
|    | 25 | ** | 186  | 012  | -022 | 043  | 005  | 060  | -036 | -017 |
|    | 26 |    | 089  | -003 | 031  | -008 | 039  | 052  | -028 | -014 |
|    | 27 | ** | 096  | 000  | 043  | -002 | 002  | 040  | 022  | 003  |
|    | 28 | ** | 163  | 033  | -031 | 026  | 074  | 089  | -045 | 035  |
|    | 29 |    | 047  | -050 | 052  | -001 | -007 | 006  | -013 | -009 |
|    | 30 |    | 037  | -016 | 045  | 002  | 005  | 008  | -011 | 012  |
|    | 31 |    | 067  | -007 | 032  | 032  | -027 | -001 | 028  | 013  |
|    |    |    |      |      |      |      |      |      |      |      |
|    |    |    |      |      |      |      |      |      |      |      |
|    | *  |    | 066  | 007  | 030  | 015  | -002 | 028  | -013 | 000  |
|    |    |    | 039  | 011  | 028  | 005  | -006 | 016  | -008 | -010 |

|    |    | A1   | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|------|------|------|-----|------|------|------|------|
| 1  | ** | -018 | -086 | 033  | 058 | -037 | -004 | -031 | -014 |
| 2  | *  | 006  | -008 | -016 | 045 | -023 | 002  | -014 | 001  |
| 3  | *  | 000  | -017 | 030  | 068 | -035 | 016  | -031 | -008 |
| 4  | *  | 019  | -007 | 004  | 060 | -022 | 012  | -026 | -003 |
| 5  |    | -010 | -015 | 007  | 096 | -045 | 038  | -006 | -007 |
| 6  |    | 051  | -106 | 021  | 076 | -056 | -043 | 004  | 000  |
| 7  |    | -009 | -059 | 019  | 057 | -014 | 010  | -013 | -014 |
| 8  |    | 003  | -009 | -024 | 051 | -017 | 010  | -017 | 003  |
| 9  | *  | -022 | -017 | 035  | 039 | -026 | 008  | 000  | -015 |
| 10 | *  | -018 | -061 | 058  | 057 | -022 | 014  | -016 | -010 |
| 11 |    | -005 | 025  | -007 | 061 | -037 | -005 | -004 | -004 |
| 12 |    | -017 | -057 | 000  | 104 | -015 | 033  | -034 | -036 |
| 13 |    | -020 | -027 | -037 | 068 | -033 | -012 | -002 | -023 |
| 14 | ** | -035 | -078 | -026 | 117 | 007  | 013  | -036 | -045 |
| 15 |    | 031  | -055 | 033  | 121 | -048 | 007  | -050 | -012 |
| 16 |    | 019  | 009  | 002  | 122 | -075 | -003 | -011 | -017 |
| 17 |    | 012  | 022  | 017  | 076 | -042 | 008  | -008 | -001 |
| 18 |    | -047 | -029 | -018 | 044 | -067 | 009  | -032 | -035 |
| 19 |    | -006 | -013 | -018 | 055 | -058 | 010  | -014 | -026 |
| 20 |    | 032  | -048 | 064  | 099 | -048 | 064  | -056 | -025 |
| 21 |    | 018  | 013  | 007  | 084 | -042 | 033  | -029 | -017 |
| 22 |    | 031  | -018 | 011  | 092 | -045 | 017  | -033 | -029 |
| 23 |    | 035  | 029  | -003 | 094 | -048 | 012  | -012 | -017 |
| 24 |    | 027  | -045 | 033  | 095 | -042 | 018  | -025 | -038 |
| 25 | ** | 039  | -056 | 051  | 135 | -059 | 026  | -036 | -033 |
| 26 |    | 041  | 027  | -008 | 108 | -053 | 008  | -029 | -017 |
| 27 | ** | -017 | 027  | -005 | 118 | -074 | 011  | -022 | 002  |
| 28 | ** | -011 | -064 | -037 | 127 | -036 | 025  | -013 | -007 |
| 29 |    | 009  | -001 | 013  | 129 | -060 | 013  | -015 | -002 |
| 30 |    | 016  | 005  | 008  | 103 | -061 | 019  | -040 | -037 |
| 31 |    | 023  | -054 | 062  | 146 | -079 | 029  | -049 | 019  |
|    | *  | 005  | -025 | 011  | 087 | -043 | 012  | -023 | -013 |
|    |    | -001 | -023 | 023  | 054 | -027 | 011  | -016 | -007 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  | ** | -061 | -024 | 057 | 012  | 001  | -001 | -015 | 017  |
| 2  | *  | -031 | -025 | 025 | 025  | 007  | 006  | -002 | 014  |
| 3  | *  | -017 | -025 | 043 | 042  | 000  | 028  | -023 | 016  |
| 4  | *  | -015 | -030 | 028 | 039  | -002 | 010  | -010 | 024  |
| 5  |    | -025 | -001 | 004 | 072  | -017 | 015  | -014 | -010 |
| 6  |    | -071 | -065 | 035 | 026  | -046 | 011  | 003  | -009 |
| 7  |    | -054 | -035 | 022 | -004 | -016 | 007  | -011 | -018 |
| 8  |    | -022 | -022 | 009 | 028  | -008 | 012  | -001 | 017  |
| 9  | *  | -030 | -019 | 023 | 000  | 001  | 015  | -008 | -001 |
| 10 | *  | -028 | -023 | 039 | -005 | 001  | 023  | -017 | 011  |
| 11 |    | -019 | -007 | 020 | -001 | -006 | 014  | -003 | 012  |
| 12 |    | -016 | -046 | 028 | 037  | 005  | 030  | -029 | -020 |
| 13 |    | -046 | -028 | 031 | 018  | -003 | 008  | -016 | 001  |
| 14 | ** | -053 | -026 | 051 | 032  | -014 | 014  | -023 | -030 |
| 15 |    | -059 | -047 | 094 | 024  | -010 | 010  | -020 | 024  |
| 16 |    | -029 | -033 | 079 | 047  | -026 | 026  | -026 | -015 |
| 17 |    | -018 | -027 | 049 | 021  | -001 | 020  | -008 | 006  |
| 18 |    | -026 | -006 | 027 | 040  | -016 | 031  | -026 | 000  |
| 19 |    | -025 | -013 | 041 | 049  | -015 | 028  | -007 | 007  |
| 20 |    | -012 | -037 | 052 | 045  | 000  | 059  | -047 | 009  |
| 21 |    | -025 | -045 | 025 | 051  | 000  | 040  | -031 | 007  |
| 22 |    | -021 | -026 | 019 | 031  | 000  | 021  | -018 | 007  |
| 23 |    | -026 | -019 | 016 | 041  | -020 | 024  | -005 | 003  |
| 24 |    | -015 | -028 | 030 | 027  | -007 | 024  | -018 | 000  |
| 25 | ** | -058 | -048 | 080 | 014  | -025 | 021  | -012 | 001  |
| 26 |    | -013 | -027 | 052 | 028  | -026 | 024  | -021 | 014  |
| 27 | ** | -021 | 003  | 036 | 036  | -043 | 009  | -031 | -001 |
| 28 | ** | -086 | -056 | 095 | 031  | -021 | 006  | 006  | -003 |
| 29 |    | -029 | 005  | 066 | 041  | -010 | 038  | -020 | 025  |
| 30 |    | -006 | -034 | 079 | 056  | -021 | 053  | -042 | -006 |
| 31 |    | -042 | -041 | 092 | 042  | 000  | 033  | -028 | 031  |
|    |    | -033 | -029 | 044 | 032  | -011 | 019  | -017 | 003  |
|    | *  | -024 | -024 | 032 | 020  | 002  | 017  | -011 | 012  |

WATHEROO  
AUGUST 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-0854-1-3

|   |    | 1   | 2   | 3   | 4   | 5   | 6   | 7    | 8    | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |     |
|---|----|-----|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8 | 1  |     | 888 | 887 | 882 |     | 880 | 877  | 873  |     | 873  | 875 | 876 |     | 864 | 872 | 870 |     | 850 | 855 | 860 |     | 863 | 872 | 869 |     | 870 | 878 | 879 |     | 878 | 881 | 885 | 0   | 873 |
|   | 2  |     | 890 | 890 | 884 |     | 866 | 863  | 866  |     | 868  | 871 | 871 |     | 876 | 878 | 881 |     | 880 | 878 | 875 |     | 877 | 877 | 872 |     | 876 | 879 | 877 |     | 878 | 880 | 885 | 0   | 877 |
|   | 3  | *   | 892 | 893 | 890 |     | 887 | 883  | 876  |     | 874  | 874 | 877 |     | 886 | 877 | 877 |     | 877 | 877 | 877 |     | 876 | 876 | 877 |     | 880 | 882 | 886 |     | 887 | 887 | 891 | 0   | 882 |
|   | 4  | *   | 893 | 897 | 899 |     | 893 | 891  | 890  |     | 887  | 867 | 868 |     | 879 | 883 | 881 |     | 873 | 863 | 860 |     | 860 | 865 | 871 |     | 872 | 879 | 880 |     | 880 | 884 | 889 | 0   | 879 |
|   | 5  | *   | 889 | 884 | 877 |     | 874 | 874  | 868  |     | 865  | 871 | 878 |     | 882 | 883 | 882 |     | 879 | 879 | 877 |     | 878 | 880 | 879 |     | 890 | 892 | 881 |     | 877 | 884 | 895 | 0   | 880 |
|   | 6  | **  | 896 | 896 | 892 |     | 890 | 886  | 885  |     | 881  | 876 | 857 |     | 861 | 869 | 873 |     | 858 | 844 | 858 |     | 864 | 866 | 868 |     | 875 | 874 | 883 |     | 894 | 879 | 880 | 1   | 875 |
|   | 7  |     | 880 | 878 | 877 |     | 877 | 880  | 877  |     | 875  | 875 | 876 |     | 869 | 851 | 854 |     | 872 | 856 | 861 |     | 878 | 868 | 872 |     | 873 | 876 | 879 |     | 878 | 879 | 884 | 1   | 873 |
|   | 8  | *   | 883 | 883 | 887 |     | 886 | 885  | 882  |     | 876  | 868 | 871 |     | 878 | 873 | 871 |     | 872 | 878 | 876 |     | 878 | 879 | 879 |     | 880 | 882 | 882 |     | 885 | 888 | 893 | 0   | 880 |
|   | 9  |     | 896 | 892 | 882 |     | 876 | 877  | 873  |     | 867  | 873 | 875 |     | 880 | 882 | 881 |     | 882 | 880 | 887 |     | 873 | 874 | 876 |     | 876 | 878 | 879 |     | 881 | 887 | 886 | 1   | 880 |
|   | 10 |     | 889 | 899 | 900 |     | 893 | 882  | 876  |     | 867  | 859 | 866 |     | 875 | 878 | 877 |     | 876 | 877 | 876 |     | 878 | 879 | 880 |     | 882 | 884 | 884 |     | 887 | 890 | 891 | 0   | 881 |
|   | 11 |     | 891 | 886 | 877 |     | 876 | 869  | 867  |     | 865  | 861 | 871 |     | 874 | 877 | 873 |     | 873 | 876 | 876 |     | 877 | 876 | 877 |     | 882 | 882 | 881 |     | 885 | 886 | 889 | 0   | 877 |
|   | 12 |     | 889 | 886 | 886 |     | 885 | 874  | 863  |     | 856  | 855 | 861 |     | 865 | 872 | 876 |     | 875 | 880 | 878 |     | 875 | 877 | 877 |     | 881 | 881 | 880 |     | 879 | 881 | 886 | 0   | 876 |
|   | 13 | *   | 891 | 891 | 887 |     | 883 | 878  | 866  |     | 858  | 862 | 865 |     | 873 | 881 | 882 |     | 881 | 883 | 880 |     | 880 | 878 | 882 |     | 885 | 886 | 887 |     | 890 | 890 | 889 | 0   | 880 |
|   | 14 |     | 885 | 887 | 885 |     | 881 | 877  | 870  |     | 865  | 861 | 869 |     | 877 | 879 | 880 |     | 878 | 875 | 876 |     | 878 | 877 | 878 |     | 878 | 884 | 883 |     | 884 | 886 | 884 | 0   | 878 |
|   | 15 |     | 886 | 886 | 883 |     | 881 | 878  | 870  |     | 863  | 860 | 867 |     | 879 | 883 | 885 |     | 883 | 883 | 881 |     | 880 | 876 | 879 |     | 879 | 886 | 887 |     | 889 | 888 | 889 | 0   | 880 |
|   | 16 |     | 897 | 898 | 898 |     | 900 | 892  | 885  |     | 874  | 871 | 873 |     | 871 | 874 | 877 |     | 858 | 849 | 856 |     | 859 | 870 | 866 |     | 866 | 869 | 872 |     | 874 | 875 | 881 | 1   | 875 |
|   | 17 |     | 890 | 895 | 895 |     | 885 | 871  | 859  |     | 843  | 845 | 843 |     | 850 | 865 | 872 |     | 871 | 873 | 872 |     | 872 | 874 | 876 |     | 878 | 875 | 875 |     | 877 | 878 | 881 | 0   | 871 |
|   | 18 |     | 883 | 882 | 882 |     | 881 | 876  | 873  |     | 867  | 867 | 866 |     | 874 | 881 | 877 |     | 876 | 883 | 871 |     | 871 | 872 | 875 |     | 876 | 879 | 882 |     | 884 | 884 | 889 | 0   | 877 |
|   | 19 |     | 893 | 893 | 905 |     | 902 | 888  | 879  |     | 865  | 865 | 873 |     | 882 | 882 | 878 |     | 874 | 878 | 878 |     | 878 | 883 | 879 |     | 878 | 882 | 883 |     | 886 | 889 | 885 | 0   | 882 |
|   | 20 |     | 888 | 894 | 897 |     | 895 | 889  | 875  |     | 860  | 865 | 874 |     | 879 | 882 | 879 |     | 877 | 875 | 870 |     | 867 | 879 | 875 |     | 878 | 880 | 883 |     | 885 | 888 | 895 | 0   | 880 |
|   | 21 |     | 899 | 902 | 906 |     | 906 | 890  | 879  |     | 861  | 855 | 860 |     | 866 | 857 | 869 |     | 870 | 870 | 869 |     | 871 | 872 | 872 |     | 875 | 875 | 877 |     | 879 | 881 | 887 | 0   | 877 |
|   | 22 | **  | 884 | 863 | 851 |     | 866 | 864* | 819* |     | 835  | 843 | 854 |     | 865 | 867 | 864 |     | 862 | 868 | 865 |     | 868 | 869 | 872 |     | 877 | 878 | 878 |     | 880 | 885 | 880 | 0   | 865 |
|   | 23 |     | 881 | 878 | 881 |     | 884 | 875  | 866  |     | 863  | 865 | 869 |     | 878 | 878 | 870 |     | 869 | 865 | 878 |     | 869 | 867 | 867 |     | 867 | 875 | 884 |     | 884 | 881 | 884 | 0   | 874 |
|   | 24 | **  | 894 | 887 | 889 |     | 879 | 880  | 870  |     | 851  | 846 | 860 |     | 872 | 872 | 872 |     | 873 | 881 | 880 |     | 864 | 867 | 868 |     | 871 | 879 | 879 |     | 874 | 878 | 876 | 1   | 873 |
|   | 25 |     | 869 | 880 | 886 |     | 884 | 879  | 870  |     | 861  | 858 | 863 |     | 870 | 874 | 872 |     | 871 | 871 | 871 |     | 871 | 872 | 874 |     | 875 | 876 | 877 |     | 878 | 879 | 883 | 0   | 874 |
|   | 26 | **  | 885 | 883 | 877 |     | 871 | 866  | 835  |     | 840  | 862 | 867 |     | 875 | 878 | 875 |     | 875 | 878 | 872 |     | 869 | 868 | 871 |     | 874 | 875 | 879 |     | 882 | 882 | 888 | 0   | 872 |
|   | 27 |     | 881 | 867 | 881 |     | 882 | 881  | 871  |     | 866* | 858 | 866 |     | 871 | 869 | 873 |     | 873 | 872 | 871 |     | 876 | 877 | 877 |     | 880 | 887 | 877 |     | 876 | 879 | 877 | 0   | 875 |
|   | 28 |     | 877 | 877 | 875 |     | 874 | 872  | 859  |     | 864  | 864 | 870 |     | 878 | 874 | 859 |     | 869 | 875 | 878 |     | 883 | 880 | 881 |     | 880 | 881 | 882 |     | 883 | 880 | 880 | 0   | 875 |
|   | 29 | **  | 874 | 880 | 886 |     | 868 | 864  | 855  |     | 842  | 838 | 844 |     | 854 | 864 | 870 |     | 868 | 865 | 867 |     | 870 | 870 | 871 |     | 878 | 884 | 878 |     | 877 | 875 | 881 | 0   | 868 |
|   | 30 |     | 878 | 874 | 878 |     | 877 | 875  | 869  |     | 857  | 851 | 852 |     | 865 | 862 | 859 |     | 869 | 867 | 864 |     | 866 | 863 | 864 |     | 864 | 871 | 873 |     | 875 | 876 | 879 | 0   | 868 |
|   | 31 |     | 881 | 882 | 885 |     | 884 | 879  | 872  |     | 865  | 856 | 863 |     | 875 | 879 | 881 |     | 879 | 877 | 872 |     | 867 | 866 | 869 |     | 884 | 880 | 878 |     | 883 | 886 | 892 | 0   | 876 |
|   | *  | 887 | 886 | 886 |     | 883 | 878 | 869  |      | 863 | 862  | 866 |     | 872 | 874 | 874 |     | 872 | 872 | 872 |     | 872 | 873 | 874 |     | 877 | 880 | 880 |     | 882 | 883 | 886 |     | 876 |     |
|   | *  | 890 | 890 | 888 |     | 885 | 882 | 876  |      | 872 | 868  | 872 |     | 880 | 879 | 879 |     | 876 | 876 | 874 |     | 874 | 876 | 878 |     | 881 | 884 | 883 |     | 884 | 887 | 891 |     | 880 |     |
|   | ** | 887 | 882 | 879 |     | 875 | 872 | 853  |      | 850 | 853  | 856 |     | 865 | 870 | 871 |     | 867 | 867 | 868 |     | 867 | 868 | 870 |     | 875 | 878 | 879 |     | 881 | 880 | 881 |     | 870 |     |

WATHEROO  
AUGUST 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 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  |    | 445 | 456 | 467 | 466 | 456  | 451  | 439  | 425 | 417 | 430 | 439 | 436 | 447 | 446 | 456 | 453 | 466 | 456 | 455 | 444 | 451 | 448 | 446 | 445 | 0 | 448 |
| 2  |    | 446 | 456 | 457 | 453 | 445  | 437  | 436  | 428 | 436 | 439 | 446 | 446 | 446 | 448 | 456 | 456 | 457 | 456 | 448 | 455 | 454 | 446 | 446 | 441 | 0 | 447 |
| 3  | *  | 446 | 456 | 472 | 477 | 469  | 456  | 443  | 434 | 430 | 442 | 444 | 446 | 445 | 447 | 448 | 451 | 446 | 446 | 444 | 446 | 441 | 439 | 443 | 445 | 0 | 448 |
| 4  | *  | 450 | 460 | 467 | 467 | 460  | 446  | 426  | 416 | 425 | 436 | 445 | 446 | 446 | 451 | 451 | 457 | 456 | 453 | 451 | 445 | 446 | 446 | 445 | 445 | 0 | 447 |
| 5  | *  | 454 | 467 | 469 | 464 | 453  | 435  | 418  | 421 | 429 | 438 | 445 | 444 | 446 | 456 | 454 | 455 | 451 | 454 | 449 | 459 | 456 | 452 | 438 | 427 | 0 | 447 |
| 6  | ** | 435 | 451 | 456 | 456 | 456  | 456  | 436  | 412 | 408 | 425 | 434 | 446 | 445 | 449 | 456 | 456 | 457 | 458 | 464 | 455 | 446 | 439 | 447 | 449 | 1 | 446 |
| 7  |    | 456 | 465 | 466 | 471 | 458  | 446  | 435  | 435 | 435 | 436 | 438 | 435 | 456 | 456 | 465 | 456 | 456 | 453 | 438 | 425 | 436 | 445 | 446 | 441 | 1 | 448 |
| 8  | *  | 446 | 451 | 456 | 460 | 454  | 445  | 432  | 422 | 424 | 436 | 436 | 441 | 441 | 455 | 456 | 456 | 456 | 447 | 446 | 446 | 446 | 446 | 444 | 443 | 0 | 445 |
| 9  |    | 455 | 467 | 476 | 470 | 452  | 435  | 430  | 428 | 425 | 436 | 446 | 447 | 448 | 456 | 478 | 455 | 453 | 447 | 446 | 436 | 442 | 435 | 441 | 442 | 1 | 448 |
| 10 |    | 441 | 457 | 467 | 467 | 471  | 453  | 436  | 425 | 427 | 437 | 446 | 446 | 448 | 452 | 452 | 451 | 450 | 446 | 446 | 443 | 442 | 436 | 436 | 436 | 0 | 446 |
| 11 |    | 445 | 456 | 462 | 466 | 467  | 456  | 436  | 425 | 425 | 438 | 442 | 441 | 446 | 448 | 449 | 451 | 456 | 450 | 446 | 446 | 441 | 436 | 436 | 440 | 0 | 446 |
| 12 |    | 447 | 458 | 467 | 477 | 477  | 468  | 443  | 425 | 424 | 425 | 436 | 441 | 446 | 451 | 453 | 451 | 451 | 450 | 446 | 446 | 445 | 446 | 446 | 446 | 0 | 449 |
| 13 | *  | 458 | 474 | 484 | 487 | 476  | 457  | 438  | 426 | 425 | 436 | 441 | 444 | 446 | 448 | 448 | 451 | 456 | 451 | 448 | 446 | 441 | 442 | 444 | 446 | 0 | 451 |
| 14 |    | 451 | 451 | 464 | 466 | 466  | 451  | 430  | 416 | 423 | 435 | 441 | 442 | 446 | 447 | 449 | 452 | 449 | 449 | 446 | 441 | 446 | 445 | 443 | 437 | 0 | 445 |
| 15 |    | 443 | 459 | 467 | 468 | 470  | 458  | 443  | 435 | 430 | 438 | 444 | 445 | 446 | 446 | 448 | 456 | 452 | 456 | 456 | 436 | 441 | 449 | 449 | 434 | 0 | 449 |
| 16 |    | 440 | 451 | 457 | 456 | 456  | 456  | 446  | 429 | 423 | 434 | 446 | 442 | 435 | 452 | 456 | 456 | 455 | 457 | 455 | 446 | 447 | 446 | 437 | 433 | 1 | 446 |
| 17 |    | 446 | 457 | 468 | 477 | 476  | 462  | 443  | 434 | 420 | 425 | 441 | 442 | 446 | 447 | 451 | 456 | 456 | 456 | 450 | 447 | 446 | 445 | 441 | 436 | 0 | 449 |
| 18 |    | 447 | 456 | 465 | 463 | 456  | 446  | 426  | 418 | 425 | 440 | 440 | 436 | 446 | 470 | 456 | 452 | 456 | 447 | 447 | 446 | 445 | 446 | 445 | 439 | 0 | 446 |
| 19 |    | 447 | 456 | 465 | 467 | 472  | 467  | 451  | 434 | 426 | 436 | 438 | 442 | 446 | 446 | 446 | 448 | 449 | 454 | 446 | 443 | 446 | 443 | 446 | 437 | 0 | 448 |
| 20 |    | 436 | 445 | 456 | 461 | 455  | 442  | 436  | 427 | 425 | 430 | 440 | 445 | 446 | 451 | 452 | 455 | 449 | 456 | 446 | 447 | 446 | 446 | 445 | 443 | 0 | 445 |
| 21 |    | 447 | 456 | 460 | 460 | 454  | 445  | 414  | 414 | 415 | 437 | 459 | 456 | 446 | 448 | 452 | 452 | 452 | 451 | 448 | 449 | 446 | 446 | 444 | 445 | 0 | 446 |
| 22 | ** | 456 | 448 | 449 | 459 | 455* | 436* | 425  | 415 | 425 | 438 | 444 | 446 | 446 | 460 | 452 | 454 | 452 | 448 | 446 | 446 | 446 | 436 | 425 | 439 | 0 | 444 |
| 23 |    | 451 | 463 | 467 | 468 | 467  | 456  | 446  | 436 | 435 | 437 | 445 | 446 | 446 | 446 | 452 | 451 | 451 | 452 | 452 | 444 | 430 | 446 | 446 | 447 | 0 | 449 |
| 24 | ** | 466 | 471 | 470 | 464 | 447  | 430  | 415  | 404 | 412 | 428 | 436 | 448 | 454 | 486 | 496 | 458 | 451 | 446 | 446 | 438 | 436 | 446 | 446 | 447 | 1 | 448 |
| 25 |    | 448 | 464 | 469 | 466 | 460  | 447  | 436  | 428 | 436 | 443 | 446 | 446 | 446 | 447 | 449 | 448 | 449 | 446 | 447 | 446 | 446 | 443 | 440 | 446 | 0 | 448 |
| 26 | ** | 456 | 468 | 474 | 469 | 454  | 425  | 416  | 419 | 427 | 442 | 443 | 447 | 454 | 467 | 458 | 461 | 454 | 446 | 446 | 446 | 436 | 436 | 441 | 451 | 0 | 447 |
| 27 |    | 467 | 456 | 467 | 468 | 455  | 439  | 425* | 422 | 427 | 436 | 439 | 446 | 446 | 446 | 447 | 451 | 448 | 446 | 450 | 441 | 446 | 446 | 444 | 450 | 0 | 446 |
| 28 |    | 456 | 459 | 457 | 456 | 446  | 440  | 437  | 425 | 425 | 430 | 435 | 435 | 438 | 446 | 446 | 446 | 446 | 445 | 446 | 446 | 446 | 446 | 446 | 447 | 0 | 444 |
| 29 | ** | 437 | 462 | 477 | 474 | 467  | 446  | 419  | 415 | 423 | 432 | 437 | 444 | 446 | 456 | 454 | 450 | 449 | 449 | 440 | 441 | 444 | 446 | 444 | 446 | 0 | 446 |
| 30 |    | 459 | 468 | 476 | 471 | 467  | 452  | 437  | 422 | 425 | 424 | 433 | 436 | 449 | 447 | 452 | 476 | 466 | 456 | 454 | 446 | 446 | 446 | 445 | 445 | 0 | 450 |
| 31 |    | 449 | 465 | 477 | 472 | 457  | 445  | 430  | 425 | 430 | 436 | 443 | 446 | 446 | 456 | 456 | 456 | 462 | 461 | 455 | 453 | 449 | 444 | 436 | 438 | 0 | 449 |
|    |    | 449 | 459 | 466 | 467 | 460  | 448  | 433  | 424 | 425 | 435 | 442 | 444 | 446 | 452 | 455 | 454 | 453 | 451 | 448 | 445 | 444 | 444 | 443 | 442 |   | 447 |
|    | *  | 451 | 462 | 470 | 471 | 462  | 448  | 431  | 424 | 427 | 438 | 442 | 444 | 445 | 451 | 451 | 454 | 453 | 450 | 448 | 448 | 446 | 445 | 443 | 441 |   | 448 |
|    | ** | 450 | 460 | 465 | 464 | 456  | 439  | 422  | 413 | 419 | 433 | 439 | 446 | 449 | 464 | 463 | 456 | 453 | 449 | 448 | 445 | 442 | 441 | 441 | 446 |   | 446 |

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VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0854-3-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |   |     |
|----|----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 26 | 1  | 172 | 175 | 172 | 165 | 158 | 154  | 146  | 146 | 155 | 170 | 174 | 172 | 187 | 184 | 185 | 179 | 178 | 171 | 168 | 159 | 164 | 163 | 162 | 162 | 0 | 168 |
|    | 2  | 169 | 176 | 173 | 172 | 170 | 164  | 161  | 161 | 168 | 170 | 173 | 170 | 173 | 174 | 177 | 175 | 174 | 169 | 165 | 163 | 163 | 160 | 161 | 161 | 0 | 168 |
|    | 3  | *   | 166 | 171 | 177 | 172 | 162  | 158  | 152 | 152 | 163 | 166 | 168 | 168 | 171 | 171 | 171 | 169 | 165 | 162 | 162 | 159 | 157 | 159 | 159 | 0 | 164 |
|    | 4  | *   | 164 | 168 | 169 | 166 | 161  | 153  | 144 | 150 | 166 | 168 | 169 | 174 | 178 | 178 | 179 | 173 | 168 | 165 | 160 | 159 | 159 | 159 | 160 | 0 | 165 |
|    | 5  | *   | 170 | 177 | 177 | 171 | 159  | 149  | 147 | 155 | 167 | 170 | 170 | 172 | 177 | 176 | 174 | 171 | 172 | 165 | 168 | 167 | 166 | 159 | 151 | 0 | 167 |
|    | 6  | **  | 160 | 170 | 173 | 170 | 165  | 161  | 150 | 143 | 157 | 171 | 171 | 174 | 180 | 189 | 179 | 178 | 176 | 173 | 167 | 159 | 154 | 161 | 163 | 1 | 168 |
|    | 7  |     | 168 | 175 | 176 | 174 | 164  | 152  | 147 | 156 | 162 | 167 | 176 | 174 | 178 | 183 | 171 | 172 | 170 | 163 | 158 | 163 | 165 | 163 | 161 | 1 | 168 |
|    | 8  | *   | 167 | 170 | 168 | 162 | 154  | 149  | 148 | 157 | 166 | 169 | 171 | 173 | 171 | 175 | 174 | 171 | 167 | 166 | 167 | 167 | 166 | 164 | 165 | 0 | 166 |
|    | 9  |     | 171 | 177 | 179 | 169 | 154  | 148  | 153 | 157 | 162 | 168 | 169 | 170 | 170 | 173 | 169 | 169 | 167 | 168 | 164 | 167 | 165 | 165 | 165 | 1 | 167 |
|    | 10 |     | 167 | 172 | 174 | 170 | 169  | 154  | 158 | 161 | 167 | 172 | 173 | 173 | 173 | 173 | 170 | 168 | 166 | 166 | 165 | 166 | 165 | 162 | 161 | 0 | 168 |
| 27 | 11 |     | 166 | 169 | 171 | 172 | 166  | 155  | 150 | 155 | 162 | 172 | 173 | 173 | 174 | 174 | 170 | 171 | 168 | 164 | 165 | 164 | 164 | 166 | 169 | 0 | 167 |
|    | 12 |     | 174 | 178 | 182 | 173 | 169  | 164  | 150 | 149 | 159 | 167 | 171 | 172 | 174 | 172 | 171 | 168 | 167 | 163 | 165 | 166 | 167 | 169 | 172 | 0 | 168 |
|    | 13 | *   | 181 | 182 | 181 | 175 | 163  | 157  | 153 | 153 | 159 | 167 | 168 | 169 | 171 | 171 | 168 | 171 | 165 | 162 | 161 | 161 | 162 | 164 | 167 | 0 | 167 |
|    | 14 |     | 173 | 173 | 177 | 173 | 167  | 156  | 143 | 148 | 161 | 168 | 172 | 172 | 174 | 176 | 171 | 168 | 166 | 163 | 160 | 164 | 166 | 166 | 169 | 0 | 167 |
|    | 15 |     | 176 | 180 | 180 | 176 | 167  | 153  | 145 | 150 | 157 | 167 | 169 | 170 | 172 | 173 | 174 | 172 | 170 | 168 | 157 | 159 | 163 | 165 | 161 | 0 | 167 |
|    | 16 |     | 164 | 172 | 170 | 163 | 159  | 153  | 149 | 144 | 150 | 164 | 172 | 173 | 178 | 189 | 182 | 173 | 173 | 168 | 162 | 164 | 164 | 161 | 160 | 1 | 166 |
|    | 17 |     | 175 | 181 | 183 | 182 | 176  | 161  | 154 | 156 | 161 | 171 | 173 | 171 | 175 | 176 | 177 | 173 | 170 | 162 | 162 | 162 | 162 | 161 | 162 | 0 | 169 |
|    | 18 |     | 171 | 178 | 180 | 176 | 162  | 153  | 148 | 149 | 158 | 169 | 167 | 168 | 174 | 185 | 177 | 175 | 169 | 167 | 164 | 162 | 162 | 160 | 161 | 0 | 167 |
|    | 19 |     | 168 | 171 | 172 | 171 | 167  | 159  | 150 | 144 | 148 | 158 | 161 | 166 | 171 | 171 | 171 | 168 | 170 | 165 | 160 | 160 | 159 | 157 | 157 | 0 | 163 |
|    | 20 |     | 158 | 161 | 165 | 163 | 158  | 151  | 148 | 147 | 148 | 156 | 160 | 162 | 165 | 168 | 173 | 165 | 169 | 162 | 161 | 160 | 159 | 157 | 155 | 0 | 160 |
| 28 | 21 |     | 158 | 159 | 159 | 154 | 149  | 145  | 140 | 153 | 158 | 168 | 180 | 173 | 165 | 165 | 166 | 165 | 164 | 161 | 161 | 159 | 157 | 154 | 154 | 0 | 160 |
|    | 22 | **  | 157 | 157 | 158 | 159 | 158* | 159* | 143 | 146 | 155 | 161 | 161 | 161 | 164 | 167 | 162 | 160 | 158 | 156 | 156 | 156 | 151 | 144 | 156 | 0 | 157 |
|    | 23 |     | 162 | 164 | 160 | 154 | 149  | 145  | 145 | 143 | 147 | 151 | 156 | 159 | 160 | 162 | 159 | 160 | 161 | 160 | 160 | 153 | 146 | 154 | 153 | 0 | 155 |
|    | 24 | **  | 151 | 151 | 144 | 142 | 130  | 120  | 129 | 137 | 146 | 155 | 157 | 161 | 162 | 172 | 172 | 154 | 147 | 148 | 151 | 145 | 146 | 152 | 152 | 1 | 149 |
|    | 25 |     | 152 | 156 | 153 | 147 | 141  | 137  | 134 | 137 | 146 | 151 | 151 | 150 | 150 | 150 | 150 | 147 | 147 | 146 | 146 | 146 | 146 | 146 | 148 | 0 | 147 |
|    | 26 | **  | 148 | 147 | 143 | 136 | 127  | 118  | 123 | 127 | 141 | 150 | 149 | 152 | 153 | 156 | 152 | 150 | 144 | 140 | 140 | 140 | 141 | 136 | 136 | 0 | 142 |
|    | 27 |     | 147 | 141 | 142 | 138 | 125  | 121  | 127 | 128 | 135 | 145 | 151 | 153 | 154 | 153 | 153 | 150 | 147 | 145 | 145 | 138 | 145 | 145 | 148 | 0 | 143 |
|    | 28 |     | 157 | 155 | 151 | 144 | 127  | 123  | 125 | 127 | 136 | 145 | 150 | 158 | 159 | 157 | 153 | 150 | 146 | 143 | 144 | 144 | 144 | 145 | 148 | 0 | 145 |
|    | 29 | **  | 153 | 163 | 163 | 155 | 144  | 130  | 122 | 130 | 147 | 156 | 155 | 155 | 158 | 163 | 157 | 151 | 151 | 148 | 142 | 140 | 144 | 148 | 148 | 0 | 149 |
|    | 30 |     | 160 | 159 | 155 | 147 | 141  | 137  | 133 | 133 | 147 | 149 | 153 | 159 | 163 | 162 | 162 | 170 | 158 | 153 | 149 | 143 | 144 | 146 | 146 | 0 | 151 |
|    | 31 |     | 156 | 159 | 157 | 149 | 136  | 130  | 131 | 138 | 145 | 147 | 151 | 153 | 155 | 159 | 161 | 158 | 159 | 154 | 142 | 141 | 141 | 138 | 137 | 0 | 147 |
| 29 |    |     | 164 | 167 | 167 | 163 | 155  | 148  | 143 | 146 | 155 | 162 | 165 | 166 | 168 | 171 | 170 | 168 | 165 | 162 | 159 | 157 | 157 | 157 | 158 |   | 160 |
|    | *  |     | 170 | 174 | 174 | 169 | 160  | 153  | 149 | 153 | 163 | 167 | 169 | 170 | 171 | 174 | 174 | 173 | 171 | 167 | 164 | 164 | 163 | 162 | 161 |   | 166 |
|    | ** |     | 154 | 158 | 156 | 152 | 145  | 138  | 133 | 137 | 149 | 159 | 159 | 161 | 163 | 169 | 165 | 159 | 156 | 154 | 152 | 150 | 148 | 148 | 150 |   | 153 |

WATHEROO  
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HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0854-1-3

WATHEROO  
AUGUST 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0854-2-3

WATHEROO  
AUGUST 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0854-3-3

|    |    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|-----|------|------|------|------|------|------|------|
| 1  |    | 112 | 031  | -001 | -023 | 021  | 030  | -003 | -008 |
| 2  |    | 025 | -032 | 070  | 000  | 020  | 028  | 011  | 026  |
| 3  | *  | 069 | 003  | 039  | 000  | -002 | 021  | -017 | 001  |
| 4  | *  | 112 | 084  | 032  | 005  | -046 | 035  | 028  | -020 |
| 5  | *  | 026 | -052 | 043  | -021 | 006  | 041  | 017  | 005  |
| 6  | ** | 163 | 053  | -008 | 003  | -025 | 019  | 013  | -015 |
| 7  |    | 092 | 011  | -032 | -003 | 025  | -017 | -006 | 008  |
| 8  | *  | 072 | -011 | 008  | 016  | -006 | -006 | -005 | -023 |
| 9  |    | 033 | -012 | 072  | 008  | 008  | 014  | 003  | 010  |
| 10 |    | 099 | -026 | 050  | 045  | -031 | 038  | -016 | -016 |
| 11 |    | 061 | -056 | 052  | -004 | 009  | 020  | 000  | -003 |
| 12 |    | 069 | -064 | 060  | 050  | -028 | 032  | -005 | -002 |
| 13 | *  | 065 | -072 | 070  | 020  | -031 | 028  | -008 | -009 |
| 14 |    | 051 | -040 | 048  | 010  | -024 | 027  | -011 | -016 |
| 15 |    | 040 | -057 | 070  | 006  | -037 | 013  | -010 | -019 |
| 16 |    | 132 | 108  | 013  | 032  | -015 | 065  | 001  | -029 |
| 17 |    | 117 | -079 | 079  | 099  | -046 | 053  | 001  | -002 |
| 18 |    | 050 | -021 | 052  | 000  | -027 | 005  | 004  | -011 |
| 19 |    | 085 | 005  | 041  | 050  | -031 | 047  | -042 | -030 |
| 20 |    | 092 | 008  | 060  | 020  | -036 | 047  | -017 | -031 |
| 21 |    | 156 | 021  | 043  | 102  | -039 | 041  | -017 | -003 |
| 22 | ** | 062 | -148 | 087  | -031 | -004 | 041  | -026 | -032 |
| 23 |    | 061 | -004 | 049  | -011 | -016 | 009  | -045 | -020 |
| 24 | ** | 072 | -028 | 079  | 053  | -050 | 031  | -017 | 006  |
| 25 |    | 056 | -021 | 026  | 027  | -040 | 022  | -019 | -029 |
| 26 | ** | 044 | -077 | 118  | 015  | -002 | 055  | -037 | 005  |
| 27 |    | 044 | -041 | -002 | -020 | -036 | 016  | -002 | -023 |
| 28 |    | 035 | -071 | 007  | 001  | 017  | 018  | -041 | -009 |
| 29 | ** | 093 | -108 | 060  | 041  | -055 | 045  | -004 | -009 |
| 30 |    | 084 | -016 | 040  | 032  | -033 | -005 | -008 | -020 |
| 31 |    | 064 | -020 | 066  | 005  | -054 | 016  | 012  | -020 |
|    |    | 077 | -024 | 045  | 017  | -020 | 026  | -008 | -011 |
|    | *  | 069 | -010 | 039  | 005  | -015 | 025  | 002  | -010 |

|    |    | A1  | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|----|----|-----|------|------|-----|------|------|------|------|
| 1  |    | 066 | -058 | -022 | 125 | -046 | 012  | -011 | -035 |
| 2  |    | 019 | -070 | 008  | 060 | -025 | 034  | -031 | -004 |
| 3  | *  | 051 | 043  | -008 | 112 | -065 | 024  | -022 | -031 |
| 4  | *  | 055 | -047 | 024  | 124 | -060 | 043  | -024 | -045 |
| 5  | *  | 047 | -072 | 027  | 104 | -079 | 069  | -068 | 017  |
| 6  | ** | 051 | -096 | -029 | 125 | -077 | 002  | 036  | -041 |
| 7  |    | 030 | 006  | 035  | 154 | 002  | 001  | -038 | -013 |
| 8  | *  | 037 | -054 | 007  | 106 | -038 | -001 | -029 | -026 |
| 9  |    | 023 | -026 | 059  | 165 | -028 | 040  | -051 | 010  |
| 10 |    | 021 | 014  | -006 | 130 | -081 | 027  | -020 | -028 |
| 11 |    | 035 | 000  | -020 | 126 | -060 | 029  | -006 | -035 |
| 12 |    | 083 | 015  | -028 | 146 | -082 | -021 | -001 | -041 |
| 13 | *  | 103 | 034  | 003  | 168 | -071 | 055  | -020 | -031 |
| 14 |    | 055 | -019 | 007  | 119 | -075 | 020  | -021 | -048 |
| 15 |    | 042 | 012  | -032 | 109 | -053 | 019  | -012 | -047 |
| 16 |    | 016 | -038 | -050 | 097 | -046 | 007  | -008 | -023 |
| 17 |    | 063 | 004  | -052 | 146 | -081 | 004  | -005 | -038 |
| 18 |    | 033 | -051 | 027  | 126 | -058 | 010  | -044 | -011 |
| 19 |    | 059 | 032  | -044 | 106 | -064 | -006 | 010  | -032 |
| 20 |    | 024 | -051 | -007 | 089 | -057 | -002 | -016 | -032 |
| 21 |    | 032 | -066 | 057  | 097 | -085 | 056  | -012 | -065 |
| 22 | ** | 000 | -056 | 029  | 113 | -056 | 040  | -013 | -011 |
| 23 |    | 050 | 028  | -008 | 110 | -029 | 025  | 008  | -028 |
| 24 | ** | 026 | -109 | 138  | 222 | -043 | -007 | -044 | 029  |
| 25 |    | 048 | 009  | 018  | 090 | -050 | 047  | -029 | -012 |
| 26 | ** | 029 | -052 | 092  | 159 | -037 | 068  | -047 | 003  |
| 27 |    | 079 | -027 | 051  | 107 | -039 | 048  | -012 | -020 |
| 28 |    | 084 | -036 | 022  | 077 | -020 | 014  | -006 | 005  |
| 29 | ** | 068 | -021 | 035  | 154 | -090 | 025  | -055 | -041 |
| 30 |    | 089 | -048 | -017 | 179 | -026 | 025  | -021 | -028 |
| 31 |    | 043 | -049 | -007 | 140 | -062 | 069  | -038 | -002 |
|    |    | 047 | -026 | 011  | 124 | -054 | 025  | -022 | -024 |
|    | *  | 059 | -018 | 011  | 122 | -062 | 040  | -033 | -023 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3  | A4   | B4   |
|----|----|------|------|-----|------|------|-----|------|------|
| 1  |    | -054 | -076 | 082 | 080  | -012 | 030 | -016 | -001 |
| 2  |    | -033 | -003 | 021 | 055  | -001 | 027 | -020 | 000  |
| 3  | *  | -012 | -019 | 035 | 069  | -017 | 036 | -022 | 000  |
| 4  | *  | -050 | -054 | 048 | 066  | -002 | 030 | -032 | -006 |
| 5  | *  | -029 | -047 | 044 | 049  | -015 | 057 | -055 | 024  |
| 6  | ** | -066 | -068 | 040 | 092  | -031 | 033 | -008 | -010 |
| 7  |    | -043 | -036 | 073 | 069  | -019 | 030 | -038 | 001  |
| 8  | *  | -034 | -060 | 058 | 016  | 004  | 033 | -031 | 009  |
| 9  |    | -006 | -044 | 062 | 039  | 002  | 042 | -036 | 025  |
| 10 |    | -026 | -002 | 029 | 028  | -022 | 026 | -021 | 000  |
| 11 |    | -022 | -031 | 054 | 034  | -018 | 031 | -022 | -020 |
| 12 |    | 023  | -017 | 065 | 060  | -030 | 032 | -020 | -019 |
| 13 | *  | 021  | -008 | 067 | 065  | -001 | 050 | -013 | 004  |
| 14 |    | -002 | -031 | 078 | 056  | -023 | 035 | -028 | -020 |
| 15 |    | 003  | -032 | 063 | 083  | -011 | 057 | -026 | -013 |
| 16 |    | -055 | -089 | 065 | 083  | -024 | 014 | -018 | 000  |
| 17 |    | -009 | 000  | 046 | 090  | -020 | 044 | -034 | -010 |
| 18 |    | -022 | -050 | 058 | 092  | -015 | 041 | -041 | 013  |
| 19 |    | 000  | -041 | 029 | 088  | -034 | 027 | -003 | -009 |
| 20 |    | -018 | -063 | 019 | 059  | -019 | 015 | -019 | -007 |
| 21 |    | -067 | -052 | 054 | -001 | -010 | 057 | -022 | -014 |
| 22 | ** | -037 | -017 | 023 | 040  | -023 | 022 | -008 | -004 |
| 23 |    | -003 | -044 | 043 | 049  | 005  | 033 | 012  | 003  |
| 24 | ** | -065 | -087 | 116 | 013  | 006  | 010 | -026 | 002  |
| 25 |    | 001  | -021 | 052 | 016  | -002 | 038 | -017 | 006  |
| 26 | ** | -046 | -061 | 102 | 022  | 014  | 040 | -017 | 010  |
| 27 |    | -030 | -083 | 093 | 009  | 006  | 018 | -006 | -010 |
| 28 |    | -011 | -070 | 118 | 033  | -007 | 038 | -005 | 014  |
| 29 | ** | -012 | -031 | 106 | 058  | -012 | 054 | -046 | -006 |
| 30 |    | -040 | -061 | 077 | 071  | 017  | 030 | -012 | 000  |
| 31 |    | -042 | -044 | 061 | 077  | 022  | 053 | -025 | 020  |
|    |    | -026 | -043 | 061 | 053  | -010 | 034 | -023 | -001 |
|    | *  | -021 | -038 | 051 | 051  | -007 | 042 | -031 | 007  |



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24000 PLUS TABULAR VALUES IN GAMMAS

2-0954-1-3

|    |    | 1  | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |   |     |
|----|----|----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 94 | 1  | ** | 895 | 893 | 890 | 887 | 878 | 862 | 854  | 854  | 858 | 860 | 868 | 878 | 875 | 858 | 857 | 856 | 870 | 858 | 862 | 866 | 868 | 877 | 876 | 865 | 1 | 869 |
|    | 2  |    | 865 | 880 | 875 | 859 | 867 | 861 | 838  | 851  | 857 | 862 | 862 | 864 | 865 | 865 | 865 | 862 | 875 | 870 | 864 | 865 | 868 | 869 | 871 | 871 | 1 | 865 |
|    | 3  |    | 875 | 878 | 877 | 872 | 869 | 860 | 851  | 848  | 852 | 848 | 847 | 859 | 857 | 856 | 867 | 879 | 842 | 853 | 863 | 872 | 878 | 869 | 866 | 863 | 1 | 863 |
|    | 4  |    | 869 | 877 | 878 | 877 | 869 | 857 | 851  | 857  | 865 | 871 | 877 | 864 | 860 | 852 | 857 | 860 | 874 | 865 | 865 | 868 | 869 | 868 | 872 | 873 | 1 | 866 |
|    | 5  |    | 874 | 874 | 875 | 871 | 856 | 850 | 839  | 843  | 860 | 868 | 864 | 859 | 846 | 856 | 871 | 869 | 865 | 865 | 871 | 875 | 874 | 874 | 875 | 879 | 1 | 865 |
|    | 6  |    | 877 | 874 | 873 | 870 | 862 | 852 | 849  | 853  | 863 | 871 | 878 | 876 | 878 | 878 | 872 | 878 | 865 | 855 | 857 | 853 | 861 | 857 | 862 | 866 | 1 | 866 |
|    | 7  | *  | 861 | 857 | 858 | 852 | 846 | 848 | 846  | 837  | 846 | 859 | 865 | 862 | 865 | 867 | 872 | 868 | 874 | 882 | 877 | 870 | 869 | 868 | 867 | 869 | 1 | 862 |
|    | 8  |    | 866 | 871 | 874 | 875 | 867 | 864 | 862  | 864  | 868 | 873 | 874 | 874 | 872 | 875 | 876 | 875 | 875 | 879 | 882 | 869 | 871 | 872 | 870 | 873 | 0 | 872 |
|    | 9  |    | 872 | 872 | 873 | 861 | 846 | 854 | 851  | 842  | 849 | 860 | 865 | 868 | 869 | 866 | 867 | 858 | 861 | 862 | 867 | 867 | 866 | 864 | 868 | 875 | 1 | 863 |
|    | 10 |    | 875 | 875 | 877 | 872 | 858 | 851 | 846  | 849  | 856 | 859 | 865 | 873 | 873 | 872 | 874 | 870 | 866 | 867 | 867 | 869 | 871 | 872 | 874 | 875 | 0 | 867 |
|    | 11 |    | 879 | 882 | 881 | 877 | 864 | 856 | 853  | 845  | 859 | 871 | 871 | 857 | 850 | 842 | 842 | 852 | 854 | 866 | 865 | 867 | 866 | 865 | 867 | 870 | 1 | 863 |
|    | 12 | *  | 875 | 880 | 880 | 877 | 872 | 869 | 864  | 861  | 867 | 867 | 861 | 860 | 866 | 871 | 873 | 872 | 872 | 877 | 876 | 878 | 879 | 880 | 882 | 886 | 0 | 873 |
|    | 13 | *  | 891 | 896 | 898 | 899 | 891 | 879 | 868  | 861  | 865 | 869 | 874 | 876 | 874 | 874 | 876 | 875 | 875 | 878 | 881 | 884 | 886 | 892 | 890 | 901 | 0 | 881 |
|    | 14 | ** | 885 | 896 | 896 | 880 | 843 | 845 | 848  | 850  | 849 | 867 | 862 | 840 | 836 | 833 | 832 | 843 | 846 | 853 | 858 | 864 | 866 | 869 | 864 | 874 | 1 | 858 |
|    | 15 |    | 877 | 877 | 870 | 861 | 866 | 868 | 864  | 863  | 858 | 833 | 836 | 834 | 836 | 850 | 860 | 865 | 859 | 865 | 870 | 872 | 871 | 871 | 873 | 873 | 1 | 861 |
|    | 16 |    | 862 | 856 | 872 | 861 | 857 | 859 | 844  | 844  | 844 | 855 | 868 | 867 | 872 | 861 | 867 | 864 | 865 | 878 | 886 | 876 | 869 | 869 | 871 | 871 | 1 | 864 |
|    | 17 |    | 875 | 873 | 884 | 879 | 872 | 862 | 864* | 863* | 863 | 868 | 876 | 874 | 875 | 875 | 876 | 875 | 875 | 876 | 878 | 878 | 887 | 885 | 878 | 878 | 0 | 875 |
|    | 18 |    | 872 | 875 | 878 | 878 | 871 | 872 | 871  | 866  | 857 | 856 | 859 | 858 | 865 | 869 | 869 | 868 | 876 | 877 | 887 | 883 | 880 | 875 | 873 | 878 | 0 | 871 |
|    | 19 | *  | 878 | 881 | 882 | 876 | 865 | 860 | 864  | 865  | 869 | 870 | 873 | 872 | 873 | 873 | 880 | 876 | 880 | 884 | 892 | 891 | 889 | 889 | 884 | 885 | 0 | 877 |
|    | 20 | ** | 885 | 887 | 877 | 863 | 853 | 861 | 855  | 859  | 860 | 862 | 855 | 851 | 864 | 868 | 846 | 852 | 866 | 855 | 870 | 861 | 845 | 850 | 839 | 843 | 1 | 859 |
|    | 21 | ** | 843 | 855 | 845 | 835 | 834 | 820 | 831  | 845  | 846 | 849 | 838 | 828 | 857 | 854 | 849 | 867 | 870 | 865 | 869 | 877 | 869 | 864 | 864 | 859 | 1 | 851 |
|    | 22 |    | 858 | 862 | 866 | 867 | 865 | 866 | 864  | 864  | 863 | 867 | 873 | 867 | 864 | 870 | 876 | 862 | 862 | 877 | 875 | 870 | 873 | 876 | 876 | 882 | 1 | 869 |
|    | 23 | *  | 878 | 880 | 882 | 880 | 871 | 861 | 859  | 859  | 848 | 851 | 859 | 860 | 862 | 859 | 862 | 866 | 867 | 867 | 869 | 872 | 873 | 874 | 874 | 875 | 0 | 867 |
|    | 24 |    | 875 | 876 | 882 | 883 | 869 | 863 | 862  | 866  | 871 | 875 | 869 | 869 | 870 | 875 | 880 | 877 | 885 | 886 | 882 | 883 | 886 | 883 | 881 | 881 | 1 | 876 |
|    | 25 |    | 886 | 887 | 886 | 881 | 869 | 854 | 851  | 852  | 851 | 860 | 869 | 864 | 862 | 859 | 866 | 888 | 885 | 880 | 872 | 875 | 874 | 876 | 872 | 873 | 1 | 871 |
|    | 26 |    | 871 | 874 | 877 | 880 | 872 | 870 | 865  | 869  | 863 | 870 | 875 | 866 | 868 | 866 | 883 | 880 | 872 | 873 | 876 | 875 | 877 | 877 | 879 | 883 | 0 | 873 |
|    | 27 |    | 882 | 880 | 881 | 874 | 869 | 866 | 868  | 870  | 870 | 874 | 874 | 875 | 876 | 878 | 872 | 871 | 864 | 874 | 870 | 881 | 883 | 875 | 878 | 881 | 1 | 874 |
|    | 28 |    | 873 | 872 | 869 | 875 | 868 | 855 | 850  | 849  | 838 | 848 | 855 | 856 | 858 | 860 | 879 | 874 | 873 | 874 | 876 | 877 | 879 | 879 | 880 | 882 | 1 | 867 |
|    | 29 | ** | 886 | 883 | 870 | 866 | 858 | 860 | 860  | 854  | 860 | 860 | 852 | 851 | 864 | 859 | 857 | 862 | 866 | 887 | 878 | 876 | 877 | 914 | 883 | 874 | 1 | 869 |
|    | 30 |    | 875 | 872 | 870 | 867 | 852 | 836 | 831  | 841  | 844 | 842 | 860 | 860 | 865 | 869 | 865 | 868 | 869 | 879 | 876 | 883 | 886 | 886 | 891 | 878 | 1 | 865 |
|    |    | *  | 875 | 877 | 877 | 872 | 863 | 858 | 854  | 855  | 857 | 862 | 864 | 862 | 864 | 864 | 866 | 868 | 868 | 871 | 873 | 873 | 874 | 875 | 873 | 875 |   | 868 |
|    |    | ** | 878 | 882 | 883 | 881 | 873 | 867 | 863  | 862  | 863 | 866 | 868 | 868 | 869 | 870 | 873 | 873 | 874 | 877 | 880 | 879 | 880 | 881 | 880 | 884 |   | 874 |
|    |    |    | 879 | 883 | 876 | 866 | 853 | 850 | 850  | 852  | 855 | 860 | 855 | 850 | 859 | 854 | 848 | 856 | 864 | 864 | 867 | 869 | 865 | 875 | 865 | 863 |   | 862 |

WATHEROO  
SEPTEMBER 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 95 | 1  | **  | 453 | 460 | 467 | 470 | 463 | 444 | 427  | 427  | 424 | 425 | 447 | 446 | 442 | 451 | 477 | 477 | 472 | 468 | 467 | 456 | 451 | 438 | 449 | 446 | 1   | 452 |
|    | 2  |     | 423 | 456 | 459 | 459 | 448 | 435 | 433  | 434  | 427 | 436 | 465 | 446 | 446 | 446 | 449 | 453 | 453 | 460 | 456 | 450 | 450 | 450 | 439 | 448 | 1   | 447 |
|    | 3  |     | 456 | 465 | 467 | 467 | 464 | 446 | 436  | 426  | 423 | 434 | 435 | 490 | 444 | 446 | 469 | 476 | 488 | 459 | 465 | 430 | 454 | 462 | 456 | 455 | 1   | 455 |
|    | 4  |     | 454 | 459 | 465 | 467 | 461 | 446 | 434  | 436  | 434 | 436 | 443 | 456 | 449 | 452 | 449 | 469 | 456 | 454 | 446 | 449 | 455 | 448 | 448 | 453 | 1   | 451 |
|    | 5  |     | 452 | 452 | 459 | 464 | 456 | 445 | 435  | 429  | 435 | 436 | 467 | 452 | 456 | 455 | 464 | 453 | 448 | 448 | 439 | 444 | 446 | 446 | 447 | 448 | 1   | 449 |
|    | 6  |     | 453 | 460 | 467 | 464 | 447 | 436 | 430  | 428  | 430 | 436 | 441 | 438 | 443 | 444 | 450 | 500 | 508 | 492 | 477 | 446 | 478 | 476 | 467 | 467 | 1   | 457 |
|    | 7  |     | 475 | 467 | 469 | 456 | 446 | 438 | 431  | 426  | 439 | 446 | 445 | 446 | 455 | 453 | 455 | 447 | 443 | 442 | 446 | 453 | 446 | 440 | 448 | 457 | 1   | 449 |
|    | 8  | *   | 463 | 476 | 482 | 477 | 465 | 453 | 439  | 432  | 432 | 435 | 441 | 444 | 446 | 453 | 451 | 451 | 456 | 451 | 456 | 448 | 446 | 450 | 448 | 457 | 0   | 452 |
|    | 9  |     | 467 | 469 | 467 | 449 | 433 | 422 | 420  | 415  | 425 | 434 | 445 | 446 | 453 | 450 | 487 | 477 | 460 | 455 | 450 | 456 | 456 | 445 | 448 | 460 | 1   | 450 |
|    | 10 |     | 469 | 473 | 473 | 456 | 446 | 434 | 422  | 423  | 422 | 425 | 446 | 443 | 445 | 446 | 463 | 467 | 456 | 455 | 456 | 453 | 453 | 451 | 451 | 452 | 0   | 449 |
|    | 11 |     | 460 | 465 | 467 | 461 | 455 | 434 | 423  | 425  | 427 | 433 | 435 | 451 | 474 | 457 | 464 | 462 | 467 | 447 | 464 | 458 | 455 | 439 | 443 | 451 | 1   | 451 |
|    | 12 | *   | 455 | 465 | 470 | 470 | 462 | 449 | 442  | 433  | 428 | 428 | 435 | 434 | 439 | 447 | 449 | 448 | 446 | 446 | 445 | 444 | 441 | 441 | 443 | 445 | 0   | 446 |
|    | 13 | *   | 461 | 476 | 477 | 469 | 457 | 446 | 433  | 430  | 425 | 427 | 433 | 439 | 443 | 443 | 445 | 448 | 449 | 448 | 446 | 446 | 446 | 446 | 429 | 440 | 0   | 446 |
|    | 14 | **  | 459 | 458 | 470 | 463 | 430 | 405 | 429  | 417  | 424 | 427 | 436 | 444 | 488 | 472 | 481 | 466 | 453 | 449 | 445 | 446 | 446 | 446 | 423 | 454 | 1   | 447 |
|    | 15 |     | 477 | 479 | 475 | 461 | 445 | 425 | 417  | 416  | 417 | 438 | 437 | 433 | 445 | 452 | 458 | 454 | 457 | 442 | 442 | 447 | 451 | 449 | 453 | 463 | 1   | 447 |
|    | 16 |     | 465 | 464 | 475 | 463 | 439 | 423 | 407  | 411  | 415 | 436 | 439 | 443 | 456 | 451 | 477 | 456 | 455 | 448 | 436 | 449 | 446 | 441 | 446 | 460 | 1   | 446 |
|    | 17 |     | 460 | 462 | 475 | 470 | 464 | 453 | 444* | 438* | 427 | 438 | 441 | 444 | 446 | 446 | 446 | 446 | 446 | 446 | 447 | 444 | 438 | 456 | 453 | 454 | 0   | 449 |
|    | 18 |     | 459 | 464 | 473 | 465 | 448 | 434 | 417  | 413  | 417 | 429 | 456 | 442 | 440 | 446 | 446 | 448 | 448 | 447 | 440 | 444 | 455 | 444 | 439 | 446 | 0   | 444 |
|    | 19 | *   | 456 | 468 | 475 | 467 | 446 | 432 | 430  | 427  | 427 | 425 | 436 | 439 | 444 | 449 | 449 | 453 | 449 | 447 | 437 | 443 | 445 | 446 | 448 | 457 | 0   | 446 |
|    | 20 | **  | 467 | 470 | 470 | 454 | 438 | 417 | 415  | 418  | 420 | 425 | 425 | 434 | 446 | 458 | 475 | 487 | 526 | 490 | 470 | 480 | 434 | 456 | 445 | 459 | 1   | 453 |
|    | 21 | **  | 467 | 477 | 478 | 480 | 467 | 446 | 432  | 420  | 425 | 439 | 430 | 435 | 457 | 467 | 455 | 456 | 456 | 455 | 435 | 434 | 436 | 444 | 446 | 447 | 1   | 449 |
|    | 22 |     | 453 | 465 | 466 | 458 | 445 | 430 | 421  | 421  | 425 | 436 | 439 | 455 | 446 | 445 | 449 | 456 | 456 | 448 | 449 | 443 | 440 | 444 | 448 | 456 | 1   | 446 |
|    | 23 | *   | 467 | 477 | 484 | 479 | 470 | 455 | 436  | 423  | 416 | 425 | 433 | 452 | 446 | 448 | 453 | 449 | 446 | 448 | 446 | 445 | 444 | 444 | 445 | 453 | 0   | 449 |
|    | 24 |     | 460 | 465 | 467 | 471 | 462 | 436 | 421  | 416  | 422 | 427 | 425 | 435 | 438 | 446 | 446 | 447 | 448 | 446 | 445 | 445 | 442 | 435 | 420 | 435 | 1   | 442 |
|    | 25 |     | 459 | 469 | 477 | 473 | 456 | 425 | 415  | 412  | 422 | 433 | 444 | 445 | 462 | 453 | 456 | 455 | 456 | 456 | 448 | 454 | 423 | 438 | 450 | 460 | 1   | 448 |
|    | 26 |     | 465 | 471 | 470 | 457 | 436 | 424 | 416  | 415  | 425 | 432 | 443 | 446 | 447 | 446 | 446 | 453 | 446 | 444 | 436 | 444 | 445 | 447 | 448 | 456 | 0   | 444 |
|    | 27 |     | 469 | 484 | 485 | 477 | 464 | 453 | 434  | 423  | 425 | 435 | 437 | 437 | 439 | 443 | 451 | 454 | 464 | 479 | 446 | 446 | 459 | 455 | 456 | 475 | 1   | 454 |
|    | 28 |     | 477 | 483 | 484 | 468 | 446 | 422 | 412  | 414  | 406 | 427 | 430 | 440 | 447 | 450 | 463 | 453 | 446 | 443 | 443 | 446 | 443 | 446 | 447 | 454 | 1   | 445 |
|    | 29 | **  | 473 | 487 | 485 | 470 | 449 | 426 | 404  | 399  | 401 | 422 | 424 | 428 | 451 | 453 | 471 | 463 | 453 | 429 | 447 | 446 | 427 | 412 | 435 | 456 | 1   | 442 |
|    | 30 |     | 477 | 487 | 486 | 477 | 446 | 415 | 394  | 399  | 401 | 415 | 446 | 434 | 444 | 449 | 446 | 446 | 446 | 440 | 448 | 422 | 436 | 446 | 445 | 444 | 1   | 441 |
|    | *  | 462 | 469 | 473 | 466 | 452 | 435 | 425 | 422  | 423  | 431 | 440 | 444 | 449 | 451 | 458 | 459 | 458 | 453 | 449 | 447 | 446 | 446 | 445 | 454 |     | 448 |     |
|    | *  | 460 | 472 | 478 | 472 | 460 | 447 | 436 | 429  | 426  | 428 | 436 | 442 | 444 | 448 | 449 | 450 | 449 | 448 | 446 | 445 | 444 | 445 | 443 | 450 |     | 448 |     |
|    | ** | 464 | 470 | 474 | 467 | 449 | 428 | 421 | 416  | 419  | 428 | 432 | 437 | 457 | 460 | 472 | 470 | 472 | 458 | 453 | 452 | 439 | 439 | 440 | 452 |     | 449 |     |

WATHEROO  
SEPTEMBER 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-0954-3-3

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 96 | 1  | **  | 150 | 154 | 153 | 148 | 136 | 128 | 131  | 140  | 144 | 150 | 160 | 155 | 155 | 168 | 179 | 178 | 158 | 159 | 156 | 146 | 142 | 133 | 141 | 145 | 1   | 150 |
|    | 2  |     | 134 | 149 | 149 | 153 | 152 | 147 | 142  | 150  | 147 | 153 | 170 | 158 | 156 | 158 | 160 | 162 | 157 | 156 | 153 | 150 | 149 | 148 | 143 | 148 | 1   | 152 |
|    | 3  |     | 152 | 152 | 152 | 155 | 154 | 145 | 139  | 139  | 143 | 154 | 159 | 188 | 159 | 161 | 170 | 161 | 181 | 160 | 158 | 139 | 145 | 151 | 149 | 147 | 1   | 155 |
|    | 4  |     | 145 | 147 | 149 | 148 | 146 | 141 | 139  | 143  | 146 | 148 | 151 | 165 | 165 | 169 | 164 | 170 | 160 | 156 | 152 | 152 | 155 | 151 | 150 | 151 | 1   | 153 |
|    | 5  |     | 154 | 155 | 157 | 154 | 146 | 143 | 147  | 150  | 154 | 255 | 273 | 267 | 271 | 267 | 267 | 261 | 159 | 160 | 154 | 155 | 156 | 156 | 157 | 158 | 1   | 187 |
|    | 6  |     | 157 | 158 | 158 | 155 | 146 | 144 | 143  | 146  | 149 | 152 | 152 | 152 | 153 | 155 | 159 | 180 | 184 | 174 | 161 | 146 | 158 | 154 | 149 | 147 | 1   | 156 |
|    | 7  |     | 153 | 153 | 151 | 145 | 142 | 139 | 142  | 150  | 160 | 160 | 158 | 158 | 163 | 160 | 158 | 156 | 154 | 152 | 154 | 159 | 156 | 154 | 160 | 164 | 1   | 154 |
|    | 8  | *   | 165 | 165 | 164 | 154 | 147 | 141 | 139  | 142  | 149 | 154 | 156 | 159 | 161 | 163 | 159 | 159 | 160 | 159 | 155 | 157 | 157 | 159 | 159 | 164 | 0   | 156 |
|    | 9  |     | 168 | 163 | 156 | 150 | 141 | 134 | 141  | 152  | 161 | 164 | 165 | 164 | 165 | 163 | 180 | 174 | 162 | 158 | 155 | 158 | 159 | 157 | 159 | 166 | 1   | 159 |
|    | 10 |     | 166 | 161 | 152 | 141 | 139 | 139 | 143  | 151  | 155 | 161 | 170 | 163 | 162 | 163 | 167 | 167 | 162 | 160 | 160 | 159 | 160 | 160 | 160 | 163 | 0   | 158 |
|    | 11 |     | 169 | 169 | 164 | 153 | 142 | 141 | 146  | 157  | 161 | 162 | 166 | 177 | 188 | 181 | 180 | 171 | 171 | 157 | 164 | 159 | 160 | 157 | 160 | 165 | 1   | 163 |
|    | 12 | *   | 166 | 166 | 168 | 162 | 154 | 149 | 149  | 149  | 152 | 157 | 166 | 167 | 169 | 170 | 167 | 163 | 161 | 158 | 158 | 158 | 158 | 159 | 162 | 164 | 0   | 161 |
|    | 13 | *   | 174 | 174 | 167 | 157 | 150 | 146 | 146  | 149  | 154 | 162 | 168 | 172 | 172 | 172 | 170 | 168 | 168 | 163 | 159 | 159 | 159 | 158 | 154 | 161 | 0   | 162 |
|    | 14 | **  | 178 | 173 | 171 | 160 | 155 | 150 | 161  | 159  | 170 | 168 | 173 | 187 | 211 | 201 | 197 | 181 | 170 | 164 | 160 | 160 | 162 | 162 | 156 | 172 | 1   | 171 |
|    | 15 |     | 176 | 174 | 162 | 150 | 142 | 135 | 138  | 146  | 155 | 179 | 184 | 179 | 188 | 183 | 177 | 170 | 173 | 161 | 159 | 160 | 162 | 162 | 164 | 171 | 1   | 165 |
|    | 16 |     | 175 | 172 | 167 | 158 | 144 | 142 | 149  | 159  | 167 | 174 | 170 | 172 | 177 | 179 | 188 | 174 | 172 | 163 | 151 | 161 | 162 | 162 | 165 | 171 | 1   | 166 |
|    | 17 |     | 171 | 168 | 167 | 157 | 149 | 146 | 146* | 147* | 149 | 158 | 161 | 164 | 168 | 169 | 169 | 169 | 169 | 167 | 165 | 164 | 157 | 164 | 164 | 166 | 0   | 161 |
|    | 18 |     | 172 | 172 | 172 | 159 | 147 | 143 | 144  | 151  | 163 | 170 | 184 | 176 | 172 | 172 | 173 | 174 | 170 | 168 | 159 | 158 | 165 | 158 | 158 | 162 | 0   | 164 |
|    | 19 | *   | 170 | 173 | 173 | 167 | 155 | 151 | 155  | 158  | 163 | 162 | 166 | 166 | 170 | 171 | 171 | 172 | 169 | 166 | 157 | 161 | 161 | 160 | 163 | 167 | 0   | 164 |
|    | 20 | **  | 166 | 166 | 162 | 154 | 153 | 144 | 149  | 156  | 158 | 165 | 169 | 175 | 180 | 181 | 192 | 189 | 196 | 180 | 160 | 166 | 149 | 159 | 161 | 166 | 1   | 167 |
|    | 21 | **  | 162 | 163 | 163 | 167 | 158 | 156 | 152  | 151  | 163 | 176 | 174 | 179 | 182 | 182 | 177 | 175 | 168 | 171 | 160 | 158 | 162 | 169 | 170 | 174 | 1   | 167 |
|    | 22 |     | 179 | 180 | 172 | 164 | 157 | 157 | 159  | 164  | 171 | 176 | 175 | 184 | 175 | 175 | 171 | 179 | 176 | 167 | 167 | 167 | 167 | 169 | 171 | 175 | 1   | 171 |
|    | 23 | *   | 181 | 181 | 176 | 170 | 165 | 161 | 155  | 155  | 165 | 176 | 177 | 185 | 180 | 180 | 179 | 174 | 173 | 173 | 170 | 169 | 169 | 170 | 173 | 177 | 0   | 172 |
|    | 24 |     | 175 | 173 | 169 | 165 | 157 | 145 | 144  | 152  | 162 | 169 | 173 | 177 | 177 | 177 | 174 | 170 | 169 | 164 | 166 | 165 | 166 | 164 | 162 | 171 | 1   | 166 |
|    | 25 |     | 182 | 179 | 175 | 162 | 151 | 146 | 149  | 157  | 170 | 177 | 180 | 180 | 190 | 182 | 179 | 166 | 166 | 163 | 162 | 165 | 153 | 165 | 174 | 178 | 1   | 169 |
|    | 26 |     | 175 | 170 | 153 | 142 | 136 | 136 | 143  | 149  | 164 | 167 | 170 | 174 | 176 | 175 | 167 | 165 | 164 | 163 | 158 | 163 | 163 | 167 | 167 | 176 | 0   | 162 |
|    | 27 |     | 176 | 171 | 158 | 148 | 141 | 132 | 130  | 139  | 153 | 165 | 168 | 169 | 172 | 172 | 176 | 173 | 177 | 177 | 157 | 155 | 162 | 161 | 164 | 172 | 1   | 161 |
|    | 28 |     | 174 | 171 | 166 | 148 | 138 | 135 | 141  | 153  | 164 | 179 | 180 | 184 | 189 | 186 | 184 | 172 | 171 | 168 | 167 | 167 | 167 | 169 | 172 | 178 | 1   | 168 |
|    | 29 | **  | 184 | 184 | 176 | 159 | 145 | 133 | 133  | 145  | 158 | 172 | 179 | 184 | 188 | 189 | 195 | 182 | 178 | 153 | 164 | 164 | 154 | 135 | 157 | 174 | 1   | 166 |
|    | 30 |     | 180 | 179 | 175 | 162 | 149 | 142 | 142  | 155  | 165 | 179 | 192 | 181 | 185 | 185 | 182 | 180 | 177 | 168 | 172 | 156 | 163 | 165 | 166 | 170 | 1   | 170 |
|    | *  | 168 | 167 | 163 | 156 | 148 | 143 | 145 | 150  | 158  | 168 | 173 | 175 | 177 | 177 | 178 | 175 | 169 | 164 | 160 | 159 | 159 | 159 | 160 | 165 |     | 163 |     |
|    | ** | 171 | 172 | 170 | 162 | 154 | 150 | 149 | 151  | 157  | 162 | 167 | 170 | 170 | 171 | 169 | 167 | 166 | 164 | 160 | 161 | 161 | 161 | 162 | 167 |     | 163 |     |
|    |    | 168 | 168 | 165 | 158 | 149 | 142 | 145 | 150  | 159  | 166 | 171 | 176 | 183 | 184 | 188 | 181 | 174 | 165 | 160 | 159 | 154 | 152 | 157 | 166 |     | 164 |     |

WATHEROO  
SEPTEMBER 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0954-1-3

WATHEROO  
SEPTEMBER 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-0954-2-3

WATHEROO  
SEPTEMBER 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-0954-3-3

|    |    | A1  | B1   | A2   | B2   | A3   | B3   | A4   | B4   |      |
|----|----|-----|------|------|------|------|------|------|------|------|
| 97 | 1  | **  | 101  | 028  | 082  | 050  | -049 | 056  | -003 | -011 |
|    | 2  |     | 043  | -053 | 043  | 032  | -009 | 035  | -014 | -021 |
|    | 3  |     | 098  | -027 | 027  | 048  | -041 | -010 | -046 | 034  |
|    | 4  |     | 056  | 000  | 029  | -002 | -008 | 070  | -031 | -042 |
|    | 5  |     | 086  | -076 | 048  | 002  | 008  | 053  | -060 | -021 |
|    | 6  |     | -039 | -003 | 104  | 056  | -002 | 032  | -026 | -006 |
|    | 7  |     | -002 | -144 | 025  | 010  | -007 | 027  | 014  | -024 |
|    | 8  | *   | -013 | -042 | 009  | 017  | -009 | 028  | -009 | -012 |
|    | 9  |     | 036  | -059 | 080  | 017  | -019 | 030  | 015  | 011  |
|    | 10 |     | 036  | -068 | 082  | 038  | -023 | 022  | -018 | 002  |
|    | 11 |     | 111  | 023  | 033  | -011 | -017 | 103  | -013 | -026 |
|    | 12 | *   | 080  | -043 | 008  | 015  | 003  | -001 | -017 | -001 |
|    | 13 | *   | 131  | -013 | 045  | 045  | -040 | 014  | -009 | -026 |
|    | 14 | **  | 194  | 038  | 062  | -013 | 013  | 128  | -048 | 024  |
|    | 15 |     | 158  | -033 | -057 | 025  | 046  | -032 | -002 | 040  |
| 16 |    | 027 | -109 | 018  | 011  | -055 | 034  | 029  | -024 |      |
| 17 |    | 038 | -057 | 028  | 008  | -037 | 010  | -026 | -008 |      |
| 18 |    | 078 | -052 | -041 | 025  | -020 | 001  | 014  | 020  |      |
| 19 | *  | 058 | -098 | 015  | -015 | -012 | 030  | -017 | 014  |      |
| 20 | ** | 022 | 034  | 011  | 063  | 010  | 092  | 022  | 082  |      |
| 21 | ** | 036 | -180 | -009 | -033 | 031  | 020  | -039 | 031  |      |
| 22 |    | 013 | -039 | 007  | -026 | -013 | -014 | 002  | -020 |      |
| 23 | *  | 108 | -027 | 018  | 045  | -023 | 015  | -004 | -001 |      |
| 24 |    | 041 | -074 | 001  | 009  | -002 | 026  | -037 | -007 |      |
| 25 |    | 085 | -077 | 025  | 073  | 008  | 068  | -030 | -031 |      |
| 26 |    | 036 | -032 | 008  | 017  | 001  | -003 | -026 | -021 |      |
| 27 |    | 034 | -016 | 046  | -010 | -015 | 011  | -006 | 026  |      |
| 28 |    | 106 | -115 | 013  | 049  | -016 | -013 | -013 | -025 |      |
| 29 | ** | 138 | -092 | 013  | -038 | 007  | 003  | -005 | 002  |      |
| 30 |    | 111 | -177 | 073  | 004  | -036 | 019  | -021 | -008 |      |
|    |    | 068 | -053 | 030  | 017  | -011 | 029  | -014 | 000  |      |
|    | *  | 074 | -046 | 018  | 021  | -015 | 018  | -011 | -005 |      |

|    |    | A1   | B1   | A2   | B2  | A3   | B3  | A4   | B4   |
|----|----|------|------|------|-----|------|-----|------|------|
| 1  | ** | 038  | -113 | -025 | 169 | -026 | 043 | -027 | -035 |
| 2  |    | 004  | -061 | -003 | 051 | -061 | 056 | -027 | -036 |
| 3  |    | 036  | -094 | 031  | 147 | -020 | 019 | -001 | -099 |
| 4  |    | 045  | -034 | 020  | 097 | -034 | 018 | -023 | -029 |
| 5  |    | -002 | -013 | 061  | 083 | -051 | 009 | -021 | -036 |
| 6  |    | 094  | -219 | -047 | 098 | 053  | 047 | -049 | -110 |
| 7  |    | 063  | -018 | 094  | 074 | -013 | 051 | -006 | 034  |
| 8  | *  | 109  | 004  | 022  | 132 | -039 | 045 | -011 | -002 |
| 9  |    | 040  | -154 | 099  | 131 | 020  | 041 | -051 | 020  |
| 10 |    | 094  | -104 | 060  | 123 | -011 | 052 | -026 | 005  |
| 11 |    | 030  | -102 | 052  | 137 | -056 | 041 | -003 | 029  |
| 12 | *  | 092  | 018  | -004 | 124 | -032 | 017 | -015 | 006  |
| 13 | *  | 102  | 002  | 009  | 138 | -048 | 060 | -020 | 029  |
| 14 | ** | -023 | -126 | 126  | 172 | -037 | 019 | -038 | 083  |
| 15 |    | 131  | -079 | 116  | 131 | 004  | 053 | -045 | 009  |
| 16 |    | 066  | -105 | 128  | 156 | -023 | 049 | -054 | 000  |
| 17 |    | 099  | 029  | 025  | 092 | -037 | 010 | -002 | -023 |
| 18 |    | 087  | -049 | 072  | 111 | -066 | 074 | -039 | -024 |
| 19 | *  | 100  | -031 | 063  | 120 | -014 | 030 | -034 | 006  |
| 20 | ** | 060  | -274 | -020 | 206 | 080  | 099 | -017 | -018 |
| 21 | ** | 082  | 003  | 061  | 200 | -029 | 024 | -029 | -008 |
| 22 |    | 059  | -063 | 073  | 103 | -018 | 061 | -012 | -027 |
| 23 | *  | 129  | 014  | 042  | 174 | -073 | 032 | 007  | -007 |
| 24 |    | 086  | -020 | 006  | 164 | -061 | 070 | -031 | 019  |
| 25 |    | 067  | -065 | 096  | 170 | -041 | 085 | -005 | -026 |
| 26 |    | 091  | -062 | 120  | 098 | -015 | 065 | -031 | -001 |
| 27 |    | 173  | -043 | 023  | 142 | -003 | 060 | -007 | -047 |
| 28 |    | 139  | -075 | 125  | 180 | -032 | 064 | -039 | 031  |
| 29 | ** | 114  | -071 | 120  | 277 | -020 | 082 | -028 | 044  |
| 30 |    | 155  | -066 | 158  | 209 | -057 | 114 | -043 | -016 |
|    |    | 061  | -051 | 063  | 119 | -016 | 071 | -044 | -018 |
|    | *  | 104  | 002  | 027  | 137 | -042 | 037 | -014 | 006  |

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | ** | -088 | -089 | 052  | 091  | 031  | 043  | -036 | 017  |
| 2  |    | -070 | -026 | 005  | 022  | -023 | 019  | -020 | -028 |
| 3  |    | -079 | -058 | 046  | 070  | -014 | 033  | 013  | -064 |
| 4  |    | -062 | -078 | 039  | 041  | -016 | -013 | -013 | -003 |
| 5  |    | -559 | -111 | 369  | 092  | -092 | -019 | -080 | -048 |
| 6  |    | -022 | -090 | -019 | 067  | 045  | 045  | -026 | -031 |
| 7  |    | -024 | -047 | 058  | -029 | 014  | 011  | -011 | 011  |
| 8  | *  | 020  | -059 | 071  | 028  | 002  | 031  | -009 | 004  |
| 9  |    | -040 | -074 | 086  | 012  | 048  | 023  | -038 | 016  |
| 10 |    | -032 | -080 | 072  | -017 | 034  | 027  | -005 | 007  |
| 11 |    | -072 | -072 | 106  | 036  | 012  | 016  | -001 | 045  |
| 12 | *  | -006 | -032 | 071  | 038  | -014 | 016  | -005 | 003  |
| 13 | *  | -027 | -050 | 082  | 048  | 004  | 045  | -002 | 018  |
| 14 | ** | -117 | -047 | 133  | 074  | -003 | -019 | 009  | 063  |
| 15 |    | -073 | -087 | 158  | 014  | 011  | 052  | -008 | 004  |
| 16 |    | -055 | -055 | 110  | 028  | 048  | 015  | -039 | 026  |
| 17 |    | 005  | -080 | 062  | 041  | 009  | 028  | 002  | 005  |
| 18 |    | -053 | -052 | 094  | 027  | 011  | 070  | -029 | -001 |
| 19 | *  | -008 | -026 | 054  | 045  | 019  | 025  | -020 | 013  |
| 20 | ** | -096 | -112 | 054  | 084  | 055  | 020  | -006 | -016 |
| 21 | ** | -059 | -047 | 083  | 022  | -009 | -001 | -012 | -034 |
| 22 |    | -022 | -031 | 075  | 007  | 027  | 036  | -005 | 002  |
| 23 | *  | -012 | -041 | 086  | 032  | -009 | 035  | 002  | -007 |
| 24 |    | -025 | -057 | 094  | 029  | -009 | 044  | -015 | 009  |
| 25 |    | -039 | -030 | 145  | 018  | 018  | 042  | 002  | 021  |
| 26 |    | -033 | -090 | 128  | -030 | 037  | 026  | 010  | 021  |
| 27 |    | -029 | -128 | 119  | 039  | 045  | 054  | -008 | -017 |
| 28 |    | -071 | -110 | 151  | -012 | 019  | 038  | -010 | 022  |
| 29 | ** | -087 | -080 | 171  | 107  | 027  | 081  | -014 | 046  |
| 30 |    | -070 | -069 | 132  | 037  | 020  | 072  | -023 | 000  |
|    |    | -063 | -068 | 094  | 036  | 011  | 030  | -014 | 004  |
|    | *  | -006 | -040 | 072  | 037  | 000  | 032  | -006 | 007  |

WATHEROO  
OCTOBER 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-1054-1-3

|    |    | 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  | ** | 878 | 867 | 856 | 846 | 830 | 832 | 829  | 820 | 815 | 806 | 824 | 843 | 846 | 854 | 857 | 862 | 859 | 884 | 863 | 856 | 853 | 852 | 855 | 857 | 1   | 848 |     |
|    |    | 857 | 848 | 842 | 841 | 833 | 833 | 849  | 861 | 866 | 864 | 865 | 865 | 865 | 865 | 865 | 867 | 865 | 865 | 866 | 869 | 870 | 870 | 872 | 870 | 0   | 860 |     |
|    | ** | 864 | 844 | 842 | 844 | 836 | 829 | 832  | 833 | 839 | 850 | 859 | 864 | 865 | 865 | 879 | 878 | 856 | 867 | 860 | 866 | 870 | 865 | 871 | 861 | 1   | 856 |     |
|    |    | 847 | 830 | 830 | 839 | 830 | 826 | 834  | 833 | 845 | 850 | 854 | 853 | 859 | 862 | 861 | 864 | 865 | 857 | 860 | 860 | 862 | 861 | 860 | 857 | 0   | 850 |     |
|    |    | 851 | 853 | 854 | 845 | 839 | 846 | 856  | 862 | 864 | 864 | 867 | 868 | 867 | 867 | 867 | 869 | 874 | 877 | 873 | 875 | 873 | 880 | 876 | 877 | 0   | 864 |     |
| 6  |    | 872 | 870 | 862 | 853 | 839 | 835 | 844  | 850 | 843 | 837 | 834 | 843 | 856 | 870 | 842 | 881 | 853 | 856 | 861 | 861 | 865 | 864 | 864 | 865 | 1   | 855 |     |
|    |    | 865 | 865 | 862 | 856 | 860 | 859 | 859  | 866 | 870 | 868 | 874 | 862 | 845 | 856 | 882 | 873 | 868 | 882 | 871 | 871 | 868 | 871 | 870 | 868 | 0   | 866 |     |
|    |    | 863 | 863 | 868 | 866 | 856 | 851 | 849  | 854 | 863 | 870 | 873 | 873 | 861 | 856 | 855 | 856 | 868 | 869 | 875 | 881 | 877 | 873 | 870 | 869 | 1   | 865 |     |
|    | *  | 874 | 886 | 887 | 882 | 877 | 869 | 871  | 868 | 868 | 868 | 870 | 870 | 871 | 870 | 871 | 872 | 874 | 876 | 876 | 877 | 877 | 876 | 877 | 874 | 0   | 874 |     |
|    | *  | 877 | 883 | 886 | 871 | 872 | 872 | 875  | 872 | 872 | 873 | 876 | 877 | 878 | 878 | 879 | 879 | 878 | 880 | 880 | 885 | 881 | 880 | 881 | 880 | 0   | 878 |     |
| 86 |    | 880 | 883 | 883 | 880 | 881 | 880 | 874  | 877 | 869 | 866 | 872 | 868 | 864 | 870 | 872 | 873 | 873 | 872 | 875 | 878 | 881 | 882 | 885 | 887 | 0   | 876 |     |
|    | *  | 885 | 887 | 885 | 878 | 870 | 867 | 867  | 872 | 875 | 881 | 883 | 884 | 884 | 883 | 883 | 882 | 882 | 882 | 882 | 883 | 885 | 887 | 889 | 888 | 0   | 881 |     |
|    | *  | 884 | 874 | 864 | 858 | 857 | 857 | 863  | 874 | 879 | 883 | 886 | 886 | 884 | 886 | 887 | 885 | 884 | 886 | 889 | 890 | 890 | 892 | 896 | 893 | 0   | 880 |     |
|    |    |     | 880 |     | 872 | 864 | 862 | 865  | 872 | 879 | 877 | 872 | 870 | 866 | 861 | 862 | 867 | 871 | 876 | 881 | 877 | 876 | 879 | 875 | 878 | 0   | 872 |     |
|    | *  | 880 | 881 | 879 | 874 | 866 | 861 | 863  | 872 | 871 | 868 | 874 | 878 | 872 | 878 | 884 | 884 | 884 | 882 | 881 | 886 | 885 | 886 | 886 | 884 | 0   | 877 |     |
| 16 |    | 880 | 881 | 878 | 875 | 868 | 863 | 868  | 872 | 877 | 884 | 890 | 891 | 890 | 889 | 887 | 886 | 864 | 871 | 882 | 874 | 871 | 875 | 879 | 877 | 1   | 878 |     |
|    |    | 872 | 868 | 863 | 860 | 856 | 855 | 861  | 868 | 872 | 877 | 875 | 877 | 883 | 881 | 883 | 882 | 883 | 885 | 885 | 885 | 884 | 878 | 873 | 870 | 0   | 874 |     |
|    | ** | 865 | 857 | 850 | 849 | 866 | 868 | 844  | 841 | 844 | 862 | 853 | 822 | 838 | 848 | 884 | 864 | 880 | 868 | 851 | 855 | 859 | 861 | 859 | 859 | 1   | 856 |     |
|    |    | 864 | 873 | 870 | 858 | 855 | 852 | 854* | 850 | 857 | 862 | 859 | 874 | 866 | 853 | 849 | 851 | 852 | 860 | 868 | 839 | 840 | 845 | 845 | 845 | 1   | 856 |     |
|    |    | 865 | 865 | 865 | 874 | 874 | 874 | 871  | 850 | 842 | 838 | 835 | 830 | 848 | 845 | 853 | 859 | 863 | 861 | 863 | 863 | 861 | 860 | 857 | 861 | 1   | 857 |     |
| 21 |    | 867 | 865 | 871 | 871 | 872 | 866 | 856  | 856 | 861 | 864 | 858 | 858 | 862 | 862 | 864 | 867 | 866 | 870 | 869 | 869 | 872 | 874 | 877 | 879 | 0   | 867 |     |
|    |    | 880 | 876 | 875 | 872 | 872 | 863 | 864  | 869 | 864 | 860 | 864 | 873 | 876 | 873 | 877 | 874 | 872 | 875 | 874 | 871 | 872 | 880 | 882 | 889 | 1   | 873 |     |
|    | ** | 892 | 889 | 886 | 877 | 868 | 865 | 864  | 869 | 870 | 845 | 834 | 833 | 831 | 844 | 858 | 860 | 867 | 857 | 885 | 883 | 864 | 875 | 869 | 859 | 2   | 864 |     |
|    | ** | 844 | 843 | 836 | 824 | 811 | 803 | 797  | 805 | 813 | 827 | 836 | 839 | 812 | 842 | 835 | 839 | 863 | 862 | 857 | 848 | 853 | 844 | 848 | 854 | 1   | 835 |     |
|    |    | 859 | 839 | 816 | 829 | 842 | 832 | 844  | 844 | 842 | 847 | 832 | 830 | 829 | 842 | 854 | 863 | 856 | 855 | 860 | 862 | 866 | 866 | 866 | 863 | 1   | 847 |     |
| 26 |    | 859 | 853 | 854 | 852 | 853 | 853 | 854  | 856 | 847 | 860 | 865 | 873 | 874 | 869 | 868 | 873 | 871 | 861 | 879 | 876 | 867 | 870 | 872 | 872 | 1   | 864 |     |
|    |    | 875 | 867 | 863 | 858 | 858 | 860 | 869  | 878 | 883 | 848 | 838 | 854 | 867 | 861 | 864 | 874 | 865 | 867 | 870 | 872 | 870 | 871 | 873 | 872 | 1   | 866 |     |
|    |    | 867 | 867 | 868 | 866 | 861 | 862 | 863  | 865 | 869 | 864 | 865 | 867 | 870 | 873 | 871 | 871 | 876 | 875 | 873 | 875 | 879 | 880 | 883 | 883 | 0   | 871 |     |
|    |    | 882 | 879 | 875 | 872 | 872 | 872 | 877  | 881 | 884 | 881 | 884 | 873 | 879 | 882 | 882 | 882 | 884 | 885 | 888 | 892 | 889 | 885 | 884 | 889 | 0   | 881 |     |
|    |    | 884 | 877 | 872 | 857 | 852 | 853 | 860  | 861 | 864 | 870 | 872 | 872 | 874 | 871 | 869 | 865 | 866 | 871 | 873 | 872 | 875 | 883 | 884 | 884 | 0   | 870 |     |
| 31 |    | 880 | 877 | 875 | 878 | 877 | 868 | 865  | 878 | 885 | 877 | 869 | 875 | 872 | 871 | 856 | 862 | 856 | 859 | 858 | 861 | 867 | 877 | 870 | 870 | 1   | 870 |     |
| 89 |    | *   | 870 | 867 | 864 | 861 | 857 | 854  | 856 | 859 | 861 | 861 | 862 | 863 | 863 | 865 | 868 | 870 | 869 | 871 | 872 | 871 | 871 | 872 | 873 | 872 |     | 866 |
|    |    |     | 880 | 882 | 880 | 873 | 868 | 865  | 868 | 872 | 873 | 875 | 878 | 879 | 878 | 879 | 880 | 880 | 881 | 882 | 884 | 884 | 884 | 886 | 884 |     | 878 |     |
|    | ** | 869 | 860 | 854 | 848 | 842 | 839 | 833  | 833 | 834 | 836 | 838 | 841 | 840 | 838 | 851 | 863 | 861 | 865 | 868 | 863 | 862 | 860 | 859 | 860 | 858 |     | 855 |

WATHEROO  
OCTOBER 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13   | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 66 | 1  | **  | 449 | 468 | 475 | 457 | 434 | 435 | 425 | 407 | 400 | 424 | 439 | 442  | 461 | 456 | 446 | 455 | 476 | 467 | 468 | 456 | 440 | 447 | 453 | 459 | 1   | 447 |
|    | 2  |     | 468 | 480 | 483 | 457 | 435 | 410 | 408 | 415 | 425 | 436 | 439 | 440  | 442 | 445 | 446 | 446 | 445 | 444 | 444 | 443 | 444 | 436 | 419 | 430 | 0   | 441 |
|    | 3  | **  | 466 | 473 | 467 | 458 | 437 | 413 | 400 | 401 | 404 | 425 | 437 | 444  | 446 | 446 | 474 | 486 | 461 | 466 | 474 | 463 | 447 | 446 | 418 | 443 | 1   | 446 |
|    | 4  |     | 454 | 456 | 460 | 467 | 444 | 434 | 415 | 413 | 424 | 434 | 452 | 457  | 445 | 445 | 447 | 459 | 457 | 446 | 445 | 443 | 435 | 444 | 455 | 466 | 0   | 446 |
|    | 5  |     | 476 | 486 | 486 | 463 | 436 | 421 | 408 | 405 | 418 | 436 | 440 | 442  | 444 | 445 | 447 | 446 | 441 | 446 | 446 | 447 | 425 | 443 | 456 | 467 | 0   | 445 |
|    | 6  |     | 478 | 487 | 484 | 475 | 446 | 415 | 394 | 386 | 397 | 423 | 422 | 427  | 469 | 488 | 473 | 486 | 485 | 423 | 443 | 446 | 446 | 446 | 457 | 473 | 1   | 449 |
|    | 7  |     | 481 | 484 | 477 | 459 | 438 | 423 | 421 | 420 | 420 | 424 | 436 | 437* | 445 | 450 | 446 | 454 | 468 | 458 | 465 | 455 | 445 | 450 | 455 | 465 | 0   | 449 |
|    | 8  |     | 481 | 490 | 489 | 474 | 450 | 429 | 415 | 415 | 422 | 432 | 436 | 439  | 462 | 485 | 468 | 466 | 455 | 456 | 441 | 442 | 450 | 449 | 456 | 456 | 1   | 452 |
|    | 9  | *   | 464 | 478 | 477 | 468 | 446 | 432 | 423 | 415 | 425 | 433 | 436 | 438  | 442 | 443 | 445 | 445 | 445 | 445 | 445 | 445 | 446 | 445 | 447 | 459 | 0   | 445 |
|    | 10 | *   | 466 | 467 | 462 | 447 | 428 | 417 | 408 | 407 | 415 | 426 | 434 | 436  | 438 | 442 | 444 | 445 | 446 | 449 | 448 | 443 | 446 | 449 | 459 | 469 | 0   | 441 |
| 66 | 11 |     | 477 | 484 | 476 | 452 | 436 | 417 | 413 | 415 | 415 | 426 | 436 | 441  | 446 | 444 | 446 | 446 | 446 | 448 | 446 | 446 | 445 | 447 | 454 | 467 | 0   | 445 |
|    | 12 | *   | 480 | 496 | 498 | 487 | 457 | 435 | 420 | 415 | 421 | 428 | 436 | 436  | 437 | 438 | 439 | 440 | 443 | 444 | 445 | 445 | 443 | 443 | 449 | 464 | 0   | 447 |
|    | 13 | *   | 478 | 487 | 481 | 465 | 436 | 414 | 412 | 398 | 407 | 423 | 427 | 432  | 435 | 440 | 444 | 443 | 444 | 444 | 445 | 444 | 445 | 448 | 458 | 468 | 0   | 442 |
|    | 14 |     |     | 487 |     | 464 | 436 | 415 | 404 | 403 | 412 | 429 | 434 | 438  | 445 | 451 | 454 | 447 | 449 | 451 | 444 | 447 | 428 | 443 | 453 | 464 | 0   | 441 |
|    | 15 | *   | 484 | 498 | 496 | 481 | 463 | 435 | 424 | 406 | 416 | 429 | 436 | 438  | 436 | 437 | 440 | 441 | 442 | 443 | 445 | 445 | 446 | 448 | 457 | 475 | 0   | 448 |
|    | 16 |     | 485 | 496 | 491 | 470 | 446 | 425 | 406 | 405 | 415 | 426 | 434 | 437  | 438 | 438 | 454 | 477 | 457 | 446 | 446 | 451 | 456 | 456 | 465 | 471 | 1   | 450 |
|    | 17 |     | 478 | 486 | 479 | 460 | 426 | 405 | 402 | 404 | 414 | 428 | 437 | 445  | 453 | 441 | 439 | 444 | 444 | 445 | 445 | 448 | 458 | 459 | 469 | 481 | 0   | 445 |
|    | 18 | **  | 493 | 492 | 467 | 440 | 416 | 395 | 385 | 382 | 396 | 417 | 425 | 448  | 437 | 477 | 510 | 466 | 438 | 453 | 454 | 450 | 451 | 458 | 460 | 463 | 1   | 445 |
|    | 19 |     | 473 | 487 | 493 | 487 | 470 | 449 | 433 | 415 | 426 | 437 | 431 | 475  | 456 | 453 | 459 | 459 | 456 | 445 | 438 | 447 | 449 | 456 | 455 | 459 | 1   | 455 |
|    | 20 |     | 477 | 488 | 487 | 473 | 446 | 428 | 408 | 398 | 403 | 414 | 426 | 436  | 458 | 457 | 452 | 449 | 451 | 452 | 449 | 453 | 449 | 457 | 468 | 478 | 1   | 448 |
| 66 | 21 |     | 487 | 488 | 478 | 461 | 442 | 426 | 415 | 411 | 415 | 419 | 429 | 432  | 435 | 438 | 445 | 447 | 447 | 445 | 448 | 446 | 445 | 449 | 456 | 465 | 0   | 445 |
|    | 22 |     | 474 | 481 | 487 | 477 | 457 | 432 | 414 | 397 | 398 | 405 | 413 | 426  | 435 | 440 | 442 | 446 | 455 | 484 | 466 | 475 | 460 | 459 | 450 | 449 | 1   | 447 |
|    | 23 | **  | 456 | 467 | 469 | 459 | 448 | 436 | 426 | 416 | 413 | 419 | 455 | 448  | 477 | 459 | 456 | 477 | 456 | 455 | 439 | 479 | 471 | 440 | 413 | 416 | 2   | 448 |
|    | 24 | **  | 415 | 434 | 443 | 445 | 429 | 402 | 393 | 384 | 394 | 412 | 445 | 458  | 459 | 462 | 472 | 469 | 457 | 480 | 490 | 487 | 463 | 465 | 467 | 479 | 1   | 446 |
|    | 25 |     | 492 | 486 | 471 | 448 | 428 | 419 | 422 | 415 | 437 | 436 | 443 | 442  | 459 | 440 | 442 | 444 | 446 | 447 | 434 | 445 | 447 | 457 | 469 | 479 | 1   | 448 |
|    | 26 |     | 491 | 495 | 481 | 458 | 437 | 414 | 405 | 402 | 404 | 416 | 425 | 428  | 435 | 437 | 440 | 458 | 468 | 460 | 444 | 443 | 455 | 458 | 468 | 478 | 1   | 446 |
|    | 27 |     | 479 | 474 | 457 | 439 | 425 | 416 | 415 | 415 | 415 | 419 | 423 | 429  | 436 | 441 | 465 | 467 | 455 | 450 | 451 | 454 | 448 | 455 | 464 | 478 | 1   | 445 |
|    | 28 |     | 487 | 487 | 477 | 456 | 441 | 426 | 418 | 424 | 428 | 435 | 437 | 439  | 438 | 439 | 444 | 440 | 440 | 446 | 447 | 445 | 448 | 450 | 457 | 467 | 0   | 447 |
|    | 29 |     | 479 | 481 | 478 | 467 | 447 | 426 | 414 | 408 | 414 | 424 | 433 | 432  | 435 | 437 | 438 | 439 | 441 | 443 | 445 | 446 | 447 | 454 | 453 | 465 | 0   | 444 |
|    | 30 |     | 474 | 469 | 462 | 449 | 424 | 417 | 415 | 415 | 417 | 426 | 437 | 438  | 443 | 458 | 471 | 459 | 447 | 449 | 450 | 454 | 456 | 447 | 456 | 468 | 0   | 446 |
| 31 |    | 477 | 475 | 467 | 456 | 435 | 405 | 396 | 399 | 414 | 420 | 429 | 436 | 446  | 468 | 467 | 478 | 478 | 485 | 469 | 472 | 471 | 439 | 474 | 491 | 1   | 452 |     |
| 66 |    |     | 474 | 481 | 477 | 462 | 440 | 421 | 412 | 407 | 414 | 425 | 434 | 440  | 446 | 450 | 453 | 456 | 453 | 452 | 450 | 452 | 449 | 450 | 455 | 465 |     | 447 |
|    | *  |     | 474 | 485 | 483 | 470 | 446 | 427 | 417 | 408 | 417 | 428 | 434 | 436  | 438 | 440 | 442 | 443 | 444 | 445 | 446 | 444 | 445 | 447 | 454 | 467 |     | 445 |
|    | ** |     | 456 | 467 | 464 | 452 | 433 | 416 | 406 | 398 | 401 | 419 | 440 | 448  | 456 | 460 | 472 | 471 | 458 | 464 | 465 | 467 | 454 | 451 | 442 | 452 |     | 446 |

WATHEROO  
OCTOBER 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-1054-3-3

|    |    | 1  | 2    | 3   | 4   | 5 | 6   | 7   | 8   | 9 | 10  | 11  | 12  | 13 | 14  | 15  | 16   | 17 | 18  | 19  | 20  | 21 | 22  | 23  | 24  |  |     |
|----|----|----|------|-----|-----|---|-----|-----|-----|---|-----|-----|-----|----|-----|-----|------|----|-----|-----|-----|----|-----|-----|-----|--|-----|
| 10 | 1  | ** | 178  | 183 | 179 |   | 162 | 151 | 156 |   | 161 | 166 | 174 |    | 194 | 195 | 186  |    | 195 | 188 | 181 |    | 183 | 190 | 174 |  | 176 |
|    | 2  |    | 189  | 190 | 184 |   | 167 | 156 | 151 |   | 156 | 164 | 173 |    | 177 | 178 | 178  |    | 178 | 180 | 181 |    | 179 | 178 | 175 |  | 174 |
|    | 3  | ** | 194  | 192 | 180 |   | 169 | 161 | 155 |   | 157 | 168 | 177 |    | 181 | 181 | 180  |    | 179 | 181 | 190 |    | 189 | 184 | 181 |  | 176 |
|    | 4  |    | 185  | 177 | 173 |   | 169 | 156 | 156 |   | 157 | 168 | 175 |    | 179 | 188 | 185  |    | 188 | 180 | 184 |    | 190 | 187 | 183 |  | 178 |
|    | 5  |    | 194  | 191 | 175 |   | 156 | 150 | 149 |   | 151 | 157 | 172 |    | 180 | 180 | 177  |    | 179 | 180 | 180 |    | 181 | 176 | 177 |  | 174 |
|    | 6  |    | 188  | 186 | 180 |   | 173 | 162 | 151 |   | 146 | 152 | 172 |    | 191 | 192 | 189  |    | 187 | 193 | 199 |    | 187 | 193 | 161 |  | 179 |
|    | 7  |    | 186  | 181 | 166 |   | 157 | 152 | 150 |   | 155 | 160 | 168 |    | 175 | 179 | 185* |    | 191 | 189 | 177 |    | 181 | 188 | 176 |  | 175 |
|    | 8  |    | 187  | 180 | 167 |   | 160 | 149 | 148 |   | 149 | 161 | 173 |    | 181 | 182 | 183  |    | 188 | 177 | 179 |    | 188 | 177 | 179 |  | 177 |
|    | 9  | *  | 183  | 181 | 176 |   | 166 | 154 | 153 |   | 155 | 162 | 173 |    | 180 | 181 | 181  |    | 178 | 177 | 177 |    | 176 | 177 | 178 |  | 175 |
|    | 10 | *  | 190  | 184 | 168 |   | 160 | 156 | 154 |   | 155 | 164 | 175 |    | 182 | 183 | 182  |    | 178 | 178 | 180 |    | 177 | 174 | 177 |  | 176 |
|    | 11 |    | 187  | 176 | 159 |   | 147 | 146 | 146 |   | 153 | 162 | 173 |    | 181 | 183 | 187  |    | 180 | 177 | 176 |    | 176 | 175 | 177 |  | 174 |
|    | 12 | *  | 196  | 195 | 183 |   | 166 | 149 | 140 |   | 142 | 153 | 168 |    | 177 | 180 | 181  |    | 178 | 177 | 176 |    | 174 | 173 | 173 |  | 174 |
|    | 13 | *  | 199  | 198 | 184 |   | 164 | 150 | 146 |   | 151 | 158 | 173 |    | 182 | 186 | 186  |    | 189 | 189 | 187 |    | 185 | 182 | 180 |  | 179 |
|    | 14 |    |      |     | 170 |   | 151 | 142 | 139 |   | 141 | 149 | 165 |    | 180 | 183 | 187  |    | 193 | 195 | 195 |    | 185 | 183 | 179 |  | 173 |
|    | 15 | *  | 198  | 198 | 183 |   | 163 | 145 | 136 |   | 139 | 149 | 167 |    | 182 | 185 | 184  |    | 187 | 186 | 183 |    | 182 | 179 | 179 |  | 176 |
|    | 16 |    | 199  | 195 | 181 |   | 165 | 151 | 145 |   | 146 | 157 | 171 |    | 177 | 180 | 180  |    | 182 | 184 | 192 |    | 201 | 191 | 182 |  | 178 |
|    | 17 |    | 191  | 188 | 176 |   | 165 | 154 | 153 |   | 156 | 162 | 174 |    | 183 | 185 | 186  |    | 189 | 184 | 184 |    | 184 | 184 | 180 |  | 179 |
|    | 18 | ** | 197  | 184 | 166 |   | 154 | 147 | 139 |   | 154 | 166 | 181 |    | 186 | 193 | 222  |    | 205 | 216 | 216 |    | 189 | 170 | 180 |  | 182 |
|    | 19 |    | 186  | 185 | 184 |   | 182 | 174 | 164 |   | 148 | 148 | 167 |    | 179 | 179 | 199  |    | 185 | 188 | 192 |    | 191 | 186 | 178 |  | 180 |
|    | 20 |    | 187  | 181 | 168 |   | 151 | 143 | 145 |   | 149 | 165 | 183 |    | 191 | 196 | 200  |    | 201 | 196 | 187 |    | 182 | 182 | 183 |  | 179 |
|    | 21 |    | 190* | 184 | 171 |   | 157 | 147 | 145 |   | 151 | 163 | 174 |    | 181 | 185 | 183  |    | 180 | 184 | 190 |    | 187 | 186 | 182 |  | 177 |
|    | 22 |    | 191  | 183 | 170 |   | 156 | 141 | 134 |   | 138 | 147 | 163 |    | 176 | 180 | 181  |    | 182 | 182 | 178 |    | 178 | 181 | 191 |  | 170 |
|    | 23 | ** | 160  | 166 | 161 |   | 153 | 156 | 157 |   | 158 | 159 | 165 |    | 185 | 207 | 199  |    | 212 | 191 | 178 |    | 187 | 168 | 173 |  | 171 |
|    | 24 | ** | 162  | 168 | 166 |   | 159 | 159 | 157 |   | 167 | 179 | 188 |    | 195 | 212 | 211  |    | 219 | 201 | 205 |    | 198 | 182 | 186 |  | 184 |
|    | 25 |    | 201  | 184 | 178 |   | 165 | 159 | 163 |   | 173 | 176 | 194 |    | 191 | 201 | 201  |    | 210 | 190 | 186 |    | 180 | 183 | 183 |  | 185 |
|    | 26 |    | 206  | 191 | 171 |   | 186 | 143 | 142 |   | 150 | 159 | 174 |    | 178 | 182 | 181  |    | 182 | 184 | 184 |    | 189 | 188 | 184 |  | 177 |
|    | 27 |    | 198  | 185 | 167 |   | 151 | 148 | 146 |   | 156 | 165 | 170 |    | 190 | 200 | 194  |    | 190 | 191 | 201 |    | 193 | 181 | 177 |  | 179 |
|    | 28 |    | 190  | 185 | 173 |   | 158 | 152 | 150 |   | 155 | 166 | 173 |    | 180 | 183 | 184  |    | 183 | 181 | 183 |    | 180 | 177 | 177 |  | 175 |
|    | 29 |    | 191  | 187 | 181 |   | 172 | 161 | 153 |   | 151 | 159 | 168 |    | 179 | 183 | 188  |    | 186 | 186 | 186 |    | 185 | 183 | 180 |  | 178 |
|    | 30 |    | 193  | 185 | 171 |   | 164 | 161 | 164 |   | 164 | 169 | 178 |    | 183 | 186 | 186  |    | 187 | 197 | 198 |    | 189 | 180 | 178 |  | 179 |
|    | 31 |    | 182  | 175 | 171 |   | 163 | 150 | 141 |   | 148 | 160 | 171 |    | 181 | 187 | 185  |    | 190 | 200 | 202 |    | 202 | 195 | 189 |  | 176 |
|    |    | *  | 189  | 185 | 174 |   | 162 | 152 | 149 |   | 153 | 161 | 173 |    | 182 | 187 | 188  |    | 186 | 182 | 179 |    | 177 | 177 | 176 |  | 177 |
|    |    | ** | 193  | 191 | 179 |   | 164 | 151 | 146 |   | 148 | 157 | 171 |    | 181 | 183 | 183  |    | 184 | 184 | 182 |    | 180 | 179 | 178 |  | 176 |
|    |    |    | 178  | 179 | 170 |   | 159 | 155 | 153 |   | 159 | 168 | 177 |    | 188 | 198 | 200  |    | 182 | 195 | 194 |    | 189 | 179 | 179 |  | 177 |

WATHEROO  
OCTOBER 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1054-1-3

WATHEROO  
OCTOBER 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-1054-2-3

WATHEROO  
OCTOBER 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1054-3-3

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | ** | 113  | -185 | 033  | 121  | 019  | 026  | 064  | 032  |
| 2  |    | -042 | -115 | 048  | -085 | 041  | -004 | -011 | 009  |
| 3  | ** | -023 | -175 | 083  | 001  | -004 | -018 | -019 | -015 |
| 4  |    | -047 | -158 | 041  | -035 | 006  | -017 | -014 | -025 |
| 5  |    | -024 | -124 | 020  | -073 | 026  | -006 | -001 | -008 |
| 6  |    | 081  | -098 | 045  | 039  | 033  | -009 | -011 | 058  |
| 7  |    | 002  | -055 | -022 | -024 | 049  | 024  | -029 | -020 |
| 8  |    | 030  | -060 | 021  | -057 | -039 | 064  | -014 | -018 |
| 9  | *  | 053  | -007 | 002  | 027  | -019 | 025  | -015 | 006  |
| 10 | *  | 021  | -037 | 014  | 004  | -005 | 010  | -002 | 017  |
| 11 |    | 081  | 005  | -001 | 003  | 002  | -014 | -005 | -007 |
| 12 | *  | 020  | -055 | 059  | -004 | 001  | 021  | -013 | 000  |
| 13 | *  | -017 | -128 | 067  | -072 | 032  | 000  | 003  | 001  |
| 14 |    |      |      |      |      |      |      |      |      |
| 15 | *  | 032  | -087 | 029  | 001  | 013  | 009  | -023 | 005  |
| 16 |    | -053 | -019 | 084  | 005  | -013 | 019  | -008 | 018  |
| 17 |    | -048 | -116 | 017  | -026 | 005  | 019  | -008 | 021  |
| 18 | ** | 042  | -064 | -044 | 056  | 065  | -022 | -044 | -058 |
| 19 |    | -025 | 042  | 037  | 044  | -012 | 086  | 039  | 013  |
| 20 |    | 120  | 006  | -086 | 071  | -007 | -031 | 016  | 000  |
| 21 |    | 064  | -033 | 004  | 005  | -008 | -007 | -013 | -030 |
| 22 |    | 048  | -044 | 043  | 021  | 011  | -018 | 015  | -003 |
| 23 | ** | 186  | 000  | -078 | 031  | 046  | 040  | -037 | 075  |
| 24 | ** | 071  | -218 | 052  | 005  | 023  | 091  | -002 | -037 |
| 25 |    | 059  | -137 | -027 | -068 | 073  | -053 | -008 | -014 |
| 26 |    | -021 | -105 | 030  | -018 | -021 | -017 | 026  | -011 |
| 27 |    | 048  | -032 | -027 | -016 | 062  | -039 | 002  | 063  |
| 28 |    | 029  | -068 | 018  | -022 | 011  | -019 | -006 | -008 |
| 29 |    | 008  | -056 | 000  | -039 | 020  | 006  | -004 | 016  |
| 30 |    | 043  | -065 | 085  | -039 | 020  | 013  | 012  | 013  |
| 31 |    | 021  | 078  | 046  | -024 | -004 | 009  | -023 | 010  |
|    |    |      |      |      |      |      |      |      |      |
|    | *  | 028  | -069 | 019  | -007 | 014  | 008  | -005 | 001  |
|    |    | 021  | -062 | 035  | -010 | 004  | 013  | -010 | 007  |

|    |    | A1   | B1   | A2   | B2  | A3   | B3  | A4   | B4   |
|----|----|------|------|------|-----|------|-----|------|------|
| 1  | ** | 084  | -158 | 047  | 150 | -047 | 070 | 047  | -023 |
| 2  |    | 071  | -052 | 093  | 136 | -033 | 150 | -066 | 066  |
| 3  | ** | 053  | -216 | 048  | 198 | -036 | 126 | -042 | 025  |
| 4  |    | 058  | -066 | 097  | 101 | -023 | 055 | -006 | -080 |
| 5  |    | 147  | -057 | 159  | 139 | -004 | 116 | -011 | 003  |
| 6  |    | 125  | -185 | 199  | 294 | -017 | 008 | -082 | 004  |
| 7  |    | 150  | -121 | 080  | 127 | 019  | 096 | 015  | 024  |
| 8  |    | 100  | -084 | 147  | 212 | -021 | 038 | -054 | 042  |
| 9  | *  | 134  | -032 | 082  | 115 | -028 | 073 | -027 | 007  |
| 10 | *  | 140  | -124 | 123  | 076 | 008  | 059 | -002 | -012 |
| 11 |    | 151  | -088 | 140  | 111 | 002  | 082 | 002  | 024  |
| 12 | *  | 214  | 014  | 098  | 165 | -039 | 116 | -029 | 010  |
| 13 | *  | 210  | -093 | 141  | 140 | -011 | 087 | -021 | 008  |
| 14 |    |      |      |      |     |      |     |      |      |
| 15 | *  | 240  | 002  | 119  | 158 | -038 | 097 | -013 | -012 |
| 16 |    | 211  | -113 | 134  | 169 | 010  | 082 | -069 | -018 |
| 17 |    | 196  | -128 | 203  | 076 | -019 | 090 | -020 | 003  |
| 18 | ** | 127  | -273 | 247  | 200 | 010  | 035 | -058 | 077  |
| 19 |    | 122  | 003  | 108  | 180 | -077 | 039 | -029 | -026 |
| 20 |    | 212  | -125 | 153  | 180 | -054 | 041 | 002  | 003  |
| 21 |    | 205  | -074 | 113  | 135 | 009  | 076 | -005 | 018  |
| 22 |    | 250  | -167 | -007 | 180 | -095 | 098 | 005  | 015  |
| 23 | ** | -010 | -119 | 023  | 157 | -137 | 060 | -039 | 068  |
| 24 | ** | 041  | -373 | 072  | 063 | -129 | 025 | 010  | -062 |
| 25 |    | 156  | -064 | 191  | 048 | 047  | 066 | 009  | 014  |
| 26 |    | 249  | -155 | 138  | 154 | 044  | 087 | -011 | -025 |
| 27 |    | 158  | -177 | 111  | 099 | 076  | 015 | -008 | 021  |
| 28 |    | 174  | -038 | 126  | 077 | 019  | 087 | -008 | 030  |
| 29 |    | 206  | -054 | 110  | 113 | -029 | 077 | -017 | -002 |
| 30 |    | 102  | -154 | 128  | 101 | 018  | 027 | -025 | 043  |
| 31 |    | 151  | -293 | 109  | 154 | 030  | 080 | -005 | -003 |
|    |    |      |      |      |     |      |     |      |      |
|    | *  | 148  | -118 | 119  | 141 | -017 | 072 | -020 | 009  |
|    |    | 187  | -046 | 113  | 131 | -023 | 087 | -019 | -001 |

|    |    | A1   | B1   | A2  | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|-----|------|------|------|------|------|
| 1  | ** | -085 | -051 | 106 | 008  | 036  | 062  | -002 | -004 |
| 2  |    | -009 | -052 | 082 | 032  | 029  | 071  | -020 | 042  |
| 3  | ** | -040 | -053 | 063 | 059  | 054  | 085  | -008 | 038  |
| 4  |    | -031 | -090 | 085 | -002 | 039  | 035  | 000  | -018 |
| 5  |    | 005  | -092 | 114 | 000  | 051  | 061  | 000  | 024  |
| 6  |    | -053 | -087 | 160 | 042  | 005  | 031  | -051 | -011 |
| 7  |    | -027 | -115 | 107 | -004 | 030  | 027  | 029  | 008  |
| 8  |    | -060 | -125 | 147 | 007  | 027  | -008 | -020 | 030  |
| 9  | *  | -002 | -080 | 094 | -016 | 020  | 038  | -014 | 006  |
| 10 | *  | -006 | -083 | 103 | -027 | 040  | 035  | 005  | 000  |
| 11 |    | -043 | -116 | 129 | -049 | 045  | 019  | 021  | 010  |
| 12 | *  | 025  | -098 | 151 | 021  | 035  | 078  | -017 | 020  |
| 13 | *  | 008  | -106 | 155 | 013  | 045  | 062  | -007 | 023  |
| 14 |    |      |      |     |      |      |      |      |      |
| 15 | *  | 015  | -129 | 176 | 015  | 035  | 090  | -015 | 020  |
| 16 |    | 008  | -139 | 122 | 039  | 063  | 055  | -039 | 013  |
| 17 |    | 000  | -102 | 119 | -016 | 032  | 037  | -004 | 002  |
| 18 | ** | -117 | -143 | 207 | -020 | 009  | 005  | 009  | 060  |
| 19 |    |      |      |     |      |      |      |      |      |
| 20 |    | -078 | -131 | 157 | -062 | 026  | 047  | 005  | 017  |
| 21 |    | -019 | -136 | 106 | -021 | 052  | 046  | -018 | 015  |
| 22 |    | -043 | -150 | 098 | 021  | 011  | 116  | -004 | 036  |
| 23 | ** | -193 | -047 | 092 | 005  | -069 | 047  | 011  | 015  |
| 24 | ** | -187 | -093 | 109 | -037 | -003 | 010  | 014  | -007 |
| 25 |    | -043 | -049 | 144 | -061 | 033  | 017  | 031  | 005  |
| 26 |    | 019  | -107 | 140 | 023  | 065  | 056  | -030 | -004 |
| 27 |    | -058 | -123 | 164 | -026 | 060  | 024  | -002 | 004  |
| 28 |    | -013 | -086 | 110 | -019 | 040  | 041  | -001 | 020  |
| 29 |    | 004  | -093 | 120 | 024  | 015  | 041  | -010 | -009 |
| 30 |    | -056 | -068 | 090 | 020  | 035  | 011  | -001 | 034  |
| 31 |    | -107 | -147 | 098 | 062  | 052  | 053  | -020 | 014  |
|    |    |      |      |     |      |      |      |      |      |
|    | *  | -039 | -102 | 123 | 004  | 029  | 044  | -006 | 014  |
|    |    | 007  | -098 | 136 | 003  | 034  | 061  | -010 | 013  |



WATHEROO  
 NOVEMBER 1954  
 HORIZONTAL INTENSITY  
 24000 PLUS TABULAR VALUES IN GAMMAS

2-1154-1-3

|     |    | 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  | ** | 870 | 867 | 857 | 855 | 850 | 847 | 844 | 860 | 867  | 867 | 869 | 865 | 860 | 849 | 880 | 883 | 859 | 867 | 898 | 886 | 883 | 875 | 869 | 860 | 1   | 866 |     |
|     | 2  | ** | 851 | 841 | 855 | 859 | 848 | 842 | 860 | 864 | 864  | 856 | 855 | 862 | 859 | 875 | 854 | 850 | 857 | 863 | 876 | 873 | 867 | 870 | 870 | 871 | 1   | 860 |     |
|     | 3  | ** | 859 | 858 | 864 | 859 | 847 | 840 | 845 | 854 | 865  | 863 | 863 | 855 | 860 | 874 | 869 | 878 | 879 | 871 | 868 | 868 | 867 | 867 | 870 | 870 | 1   | 863 |     |
|     | 4  |    | 867 | 872 | 878 | 878 | 875 | 867 | 868 | 881 | 880  | 878 | 877 | 878 | 867 | 869 | 873 | 879 | 887 | 885 | 879 | 875 | 878 | 882 | 885 | 882 | 0   | 877 |     |
|     | 5  |    | 882 | 886 | 888 | 888 | 883 | 877 | 872 | 874 | 864  | 865 | 866 | 871 | 870 | 870 | 870 | 876 | 875 | 876 | 875 | 873 | 874 | 876 | 878 | 878 | 0   | 875 |     |
|     | 6  |    | 873 | 872 | 868 | 868 | 865 | 864 | 861 | 865 | 867  | 865 | 866 | 867 | 868 | 877 | 877 | 873 | 873 | 878 | 882 | 881 | 871 | 876 | 881 | 881 | 0   | 872 |     |
|     | 7  |    | 882 | 882 | 886 | 887 | 881 | 883 | 882 | 880 | 881  | 879 | 879 | 880 | 879 | 878 | 879 | 884 | 884 | 883 | 883 | 883 | 883 | 884 | 886 | 886 | 0   | 882 |     |
|     | 8  |    | 882 | 877 | 876 | 878 | 881 | 884 | 884 | 879 | 881  | 883 | 885 | 886 | 885 | 882 | 879 | 881 | 890 | 885 | 888 | 879 | 879 | 884 | 887 | 889 | 0   | 883 |     |
|     | 9  | *  | 886 | 884 | 883 | 879 | 873 | 876 | 879 | 885 | 890  | 891 | 888 | 887 | 887 | 886 | 883 | 885 | 880 | 882 | 880 | 881 | 879 | 882 | 884 | 880 | 0   | 883 |     |
|     | 10 | *  | 873 | 872 | 868 | 865 | 876 | 890 | 900 | 900 | 892  | 887 | 883 | 886 | 884 | 884 | 884 | 883 | 883 | 885 | 886 | 887 | 889 | 892 | 897 | 901 | 0   | 885 |     |
| 102 | 11 |    | 899 | 896 | 890 | 888 | 892 | 895 | 901 | 903 | 901  | 892 | 889 | 890 | 886 | 885 | 882 | 880 | 880 | 882 | 892 | 894 | 892 | 900 | 911 | 908 | 0   | 893 |     |
|     | 12 |    | 908 | 905 | 898 | 889 | 882 | 902 | 905 | 902 | 894  | 893 | 891 | 885 | 872 | 870 | 870 | 877 | 876 | 878 | 879 | 885 | 881 | 884 | 886 | 889 | 1   | 888 |     |
|     | 13 |    | 884 | 878 | 876 | 884 | 884 | 885 | 887 | 892 | 892  | 892 | 889 | 889 | 887 | 884 | 887 | 890 | 893 | 895 | 892 | 892 | 886 | 890 | 896 | 892 | 0   | 888 |     |
|     | 14 |    | 882 | 876 | 873 | 879 | 883 | 884 | 890 | 890 | 886  | 885 | 886 | 886 | 888 | 889 | 883 | 879 | 875 | 880 | 878 | 880 | 877 | 878 | 881 | 881 | 0   | 882 |     |
|     | 15 | *  | 886 | 891 | 889 | 886 | 878 | 877 | 876 | 876 | 876  | 877 | 876 | 877 | 877 | 878 | 881 | 883 | 881 | 884 | 884 | 884 | 885 | 887 | 891 | 894 | 0   | 882 |     |
|     | 16 | *  | 894 | 900 | 900 | 894 | 890 | 885 | 881 | 879 | 882  | 883 | 884 | 886 | 886 | 886 | 886 | 885 | 885 | 889 | 889 | 891 | 893 | 895 | 898 | 899 | 0   | 889 |     |
|     | 17 | *  | 902 | 908 | 911 | 906 | 897 | 895 | 893 | 891 | 900  | 892 | 893 | 892 | 889 | 889 | 893 | 892 | 892 | 892 | 893 | 893 | 893 | 894 | 900 | 900 | 0   | 896 |     |
|     | 18 |    | 899 | 897 | 899 | 904 | 898 | 886 | 880 | 884 | 890* | 883 | 893 | 898 | 900 | 894 | 889 | 891 | 889 | 901 | 906 | 907 | 906 | 909 | 904 | 902 | 1   | 896 |     |
|     | 19 |    | 896 | 900 | 898 | 892 | 884 | 881 | 880 | 878 | 879  | 884 | 878 | 881 | 879 | 881 | 889 | 885 | 890 | 881 | 879 | 889 | 881 | 879 | 883 | 877 | 1   | 884 |     |
|     | 20 | ** | 874 | 875 | 876 | 876 | 867 | 873 | 874 | 865 | 857  | 854 | 845 | 849 | 858 | 859 | 853 | 864 | 879 | 883 | 884 | 882 | 875 | 874 | 873 | 868 | 1   | 868 |     |
|     | 21 |    | 862 | 864 | 864 | 873 | 874 | 872 | 871 | 870 | 871  | 870 | 877 | 877 | 875 | 893 | 887 | 881 | 878 | 883 | 881 | 884 | 885 | 882 | 880 | 882 | 0   | 877 |     |
|     | 22 |    | 890 | 899 | 897 | 888 | 881 | 874 | 871 | 871 | 872  | 873 | 877 | 878 | 877 | 877 | 880 | 882 | 882 | 887 | 888 | 888 | 885 | 880 | 882 | 882 | 0   | 881 |     |
|     | 23 |    | 876 | 885 | 891 | 894 | 886 | 880 | 880 | 885 | 885  | 885 | 882 | 889 | 893 | 894 | 891 | 898 | 883 | 869 | 883 | 892 | 877 | 868 | 865 | 865 | 1   | 883 |     |
|     | 24 |    | 859 | 861 | 871 | 882 | 883 | 882 | 882 | 885 | 883  | 875 | 875 | 875 | 872 | 873 | 870 | 874 | 881 | 874 | 875 | 880 | 880 | 880 | 880 | 881 | 879 | 0   | 876 |
|     | 25 |    | 881 | 882 | 880 | 879 | 880 | 878 | 880 | 880 | 884  | 883 | 880 | 876 | 879 | 885 | 886 | 887 | 887 | 886 | 887 | 889 | 889 | 889 | 889 | 889 | 0   | 884 |     |
|     | 26 |    | 891 | 894 | 896 | 888 | 883 | 881 | 882 | 879 | 876  | 882 | 885 | 887 | 877 | 877 | 886 | 890 | 891 | 893 | 891 | 891 | 892 | 893 | 893 | 893 | 0   | 887 |     |
|     | 27 |    | 892 | 892 | 891 | 891 | 884 | 886 | 894 | 895 | 898  | 899 | 901 | 894 | 896 | 894 | 896 | 890 | 901 | 897 | 892 | 904 | 903 | 901 | 898 | 892 | 1   | 895 |     |
|     | 28 |    | 885 | 882 | 887 | 894 | 895 | 901 | 896 | 890 | 888  | 889 | 894 | 889 | 874 | 863 | 875 | 884 | 883 | 883 | 885 | 887 | 884 | 883 | 883 | 882 | 0   | 886 |     |
|     | 29 |    | 880 | 884 | 886 | 888 | 892 | 895 | 896 | 890 | 891  | 889 | 886 | 881 | 877 | 883 | 901 | 895 | 880 | 882 | 885 | 903 | 902 | 898 | 897 | 890 | 1   | 890 |     |
|     | 30 | ** | 894 | 902 | 899 | 885 | 863 | 863 | 878 | 878 | 881  | 881 | 883 | 882 | 883 | 887 | 885 | 881 | 884 | 898 | 897 | 893 | 888 | 887 | 891 | 884 | 1   | 885 |     |
|     | *  |    | 882 | 883 | 883 | 883 | 879 | 878 | 880 | 881 | 881  | 880 | 880 | 880 | 878 | 880 | 881 | 882 | 882 | 883 | 885 | 886 | 884 | 885 | 886 | 885 |     | 882 |     |
|     | *  |    | 888 | 891 | 890 | 886 | 883 | 885 | 886 | 886 | 888  | 886 | 885 | 886 | 885 | 885 | 885 | 886 | 884 | 886 | 886 | 887 | 888 | 890 | 894 | 895 |     | 887 |     |
|     | ** |    | 870 | 869 | 870 | 867 | 855 | 853 | 860 | 864 | 867  | 864 | 863 | 863 | 864 | 869 | 868 | 871 | 872 | 876 | 885 | 880 | 876 | 875 | 875 | 871 |     | 869 |     |

WATHEROO  
NOVEMBER 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|     |    |    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |   |     |
|-----|----|----|--------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 103 | 1  | ** | 490    | 481 | 470 | 457 | 434 | 415 | 398 | 397 | 404  | 419 | 433 | 429 | 439 | 459 | 476 | 480 | 478 | 468 | 474 | 488 | 450 | 479 | 493 | 502 | 1 | 455 |
|     | 2  | ** | 487    | 486 | 469 | 455 | 436 | 418 | 416 | 417 | 426  | 429 | 433 | 437 | 468 | 478 | 482 | 456 | 448 | 446 | 424 | 434 | 440 | 444 | 454 | 465 | 1 | 448 |
|     | 3  | ** | 469    | 481 | 480 | 457 | 435 | 421 | 407 | 408 | 420  | 416 | 426 | 435 | 439 | 450 | 457 | 440 | 466 | 454 | 455 | 447 | 446 | 450 | 459 | 470 | 1 | 445 |
|     | 4  |    | 478    | 484 | 481 | 468 | 450 | 435 | 425 | 425 | 425  | 431 | 448 | 450 | 437 | 440 | 442 | 440 | 437 | 438 | 445 | 446 | 449 | 457 | 468 | 475 | 0 | 449 |
|     | 5  |    | 475    | 477 | 466 | 437 | 419 | 413 | 413 | 410 | 416  | 427 | 429 | 439 | 454 | 437 | 441 | 445 | 441 | 445 | 445 | 441 | 447 | 456 | 468 | 480 | 0 | 443 |
|     | 6  |    | 479    | 470 | 455 | 437 | 418 | 403 | 396 | 408 | 425  | 426 | 430 | 435 | 437 | 451 | 450 | 449 | 452 | 450 | 429 | 457 | 460 | 469 | 480 | 488 | 0 | 444 |
|     | 7  |    | 481    | 476 | 471 | 460 | 440 | 424 | 416 | 418 | 423  | 425 | 426 | 428 | 430 | 437 | 440 | 440 | 444 | 445 | 443 | 445 | 447 | 454 | 466 | 478 | 0 | 444 |
|     | 8  |    | 491    | 491 | 481 | 459 | 429 | 419 | 404 | 415 | 424  | 427 | 430 | 436 | 438 | 444 | 449 | 455 | 466 | 453 | 456 | 456 | 443 | 456 | 470 | 478 | 0 | 449 |
|     | 9  | *  | 481    | 488 | 487 | 475 | 446 | 422 | 408 | 410 | 419  | 426 | 429 | 433 | 433 | 437 | 443 | 455 | 452 | 448 | 449 | 448 | 450 | 458 | 471 | 478 | 0 | 448 |
|     | 10 | *  | 481    | 477 | 470 | 450 | 425 | 407 | 403 | 406 | 416  | 426 | 431 | 431 | 434 | 437 | 442 | 447 | 447 | 448 | 448 | 450 | 453 | 456 | 464 | 475 | 0 | 443 |
|     | 11 |    | 481    | 479 | 468 | 447 | 433 | 421 | 409 | 409 | 416  | 424 | 427 | 428 | 433 | 457 | 446 | 448 | 454 | 450 | 438 | 450 | 456 | 465 | 480 | 491 | 0 | 446 |
|     | 12 |    | 503    | 501 | 477 | 460 | 429 | 414 | 407 | 406 | 416  | 425 | 427 | 434 | 448 | 459 | 452 | 444 | 442 | 442 | 445 | 429 | 444 | 459 | 468 | 484 | 1 | 446 |
|     | 13 |    | 488    | 484 | 473 | 447 | 422 | 413 | 408 | 416 | 425  | 429 | 430 | 429 | 433 | 438 | 440 | 447 | 445 | 447 | 445 | 448 | 450 | 455 | 460 | 468 | 0 | 443 |
|     | 14 |    | 479    | 484 | 477 | 445 | 413 | 394 | 394 | 409 | 420  | 430 | 437 | 435 | 438 | 450 | 449 | 461 | 466 | 461 | 456 | 447 | 450 | 457 | 476 | 481 | 0 | 446 |
|     | 15 | *  | 487    | 487 | 477 | 463 | 447 | 431 | 416 | 414 | 419  | 428 | 436 | 438 | 437 | 436 | 437 | 441 | 444 | 443 | 444 | 440 | 438 | 447 | 456 | 468 | 0 | 445 |
|     | 16 | *  | 479    | 484 | 484 | 468 | 440 | 425 | 416 | 413 | 416  | 423 | 429 | 434 | 434 | 435 | 436 | 437 | 437 | 440 | 440 | 441 | 445 | 449 | 459 | 470 | 0 | 443 |
|     | 17 | *  | 481    | 487 | 486 | 475 | 455 | 439 | 419 | 406 | 400  | 411 | 419 | 426 | 428 | 434 | 436 | 438 | 439 | 443 | 443 | 445 | 447 | 450 | 458 | 466 | 0 | 443 |
|     | 18 |    | 470    | 468 | 468 | 455 | 444 | 429 | 419 | 412 | 413* | 418 | 425 | 428 | 429 | 434 | 443 | 448 | 441 | 439 | 445 | 450 | 454 | 461 | 476 | 471 | 1 | 443 |
|     | 19 |    | 480    | 480 | 476 | 444 | 419 | 417 | 414 | 409 | 406  | 413 | 417 | 426 | 429 | 439 | 453 | 453 | 456 | 468 | 457 | 459 | 470 | 448 | 468 | 478 | 1 | 445 |
|     | 20 | ** | 485    | 474 | 457 | 444 | 428 | 418 | 401 | 399 | 413  | 409 | 423 | 437 | 455 | 474 | 453 | 449 | 437 | 450 | 447 | 454 | 461 | 469 | 486 | 492 | 1 | 446 |
|     | 21 |    | 482    | 472 | 455 | 443 | 434 | 419 | 406 | 409 | 419  | 424 | 430 | 430 | 437 | 466 | 465 | 457 | 445 | 445 | 444 | 446 | 450 | 461 | 473 | 496 | 0 | 446 |
|     | 22 |    | 490    | 481 | 469 | 447 | 424 | 397 | 393 | 395 | 413  | 422 | 428 | 428 | 433 | 439 | 443 | 445 | 445 | 445 | 447 | 450 | 454 | 459 | 471 | 487 | 0 | 442 |
|     | 23 |    | 496    | 492 | 478 | 460 | 437 | 415 | 399 | 402 | 411  | 424 | 435 | 435 | 434 | 436 | 447 | 479 | 516 | 470 | 448 | 446 | 455 | 465 | 488 | 503 | 1 | 453 |
|     | 24 |    | 502    | 496 | 468 | 440 | 419 | 409 | 406 | 415 | 421  | 428 | 439 | 436 | 439 | 449 | 454 | 447 | 450 | 445 | 447 | 436 | 447 | 454 | 465 | 476 | 0 | 445 |
|     | 25 |    | 485    | 488 | 477 | 453 | 433 | 423 | 414 | 418 | 417  | 418 | 423 | 429 | 437 | 435 | 437 | 439 | 440 | 445 | 447 | 450 | 456 | 464 | 479 | 478 | 0 | 445 |
|     | 26 |    | 486    | 481 | 468 | 444 | 414 | 393 | 388 | 397 | 418  | 432 | 436 | 436 | 439 | 440 | 443 | 441 | 440 | 440 | 444 | 446 | 446 | 458 | 484 | 495 | 0 | 442 |
|     | 27 |    | 501    | 503 | 497 | 459 | 417 | 395 | 395 | 405 | 414  | 420 | 424 | 426 | 426 | 435 | 441 | 446 | 434 | 450 | 440 | 423 | 447 | 459 | 471 | 486 | 1 | 442 |
|     | 28 |    | 492    | 489 | 476 | 450 | 429 | 414 | 409 | 415 | 419  | 424 | 428 | 435 | 448 | 449 | 445 | 445 | 446 | 447 | 450 | 449 | 453 | 457 | 467 | 476 | 0 | 446 |
|     | 29 |    | 477    | 480 | 474 | 457 | 438 | 419 | 409 | 410 | 416  | 425 | 431 | 439 | 439 | 439 | 452 | 464 | 457 | 448 | 448 | 455 | 460 | 468 | 481 | 489 | 1 | 449 |
|     | 30 | ** | 481    | 497 | 491 | 470 | 439 | 414 | 405 | 410 | 414  | 419 | 428 | 433 | 451 | 450 | 449 | 447 | 447 | 436 | 440 | 440 | 446 | 455 | 461 | 470 | 1 | 446 |
|     |    |    | 485    | 484 | 474 | 454 | 432 | 416 | 407 | 409 | 417  | 423 | 430 | 433 | 439 | 445 | 448 | 449 | 450 | 448 | 446 | 447 | 450 | 458 | 471 | 480 |   | 446 |
|     |    |    | * 482  | 485 | 481 | 466 | 443 | 425 | 412 | 410 | 414  | 423 | 429 | 432 | 433 | 436 | 439 | 444 | 444 | 444 | 445 | 445 | 447 | 452 | 462 | 471 |   | 444 |
|     |    |    | ** 482 | 484 | 473 | 457 | 434 | 417 | 405 | 406 | 415  | 418 | 429 | 434 | 450 | 462 | 463 | 454 | 455 | 451 | 448 | 453 | 449 | 459 | 471 | 480 |   | 448 |

WATHEROO  
 NOVEMBER 1954  
 VERTICAL INTENSITY  
 52000 PLUS TABULAR VALUES IN GAMMAS

2-1154-3-3

|     |    |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |   |     |
|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 101 | 1  | ** | 174 | 168 | 162 | 155 | 149 | 146 | 152 | 159 | 169  | 180 | 186 | 185 | 192 | 206 | 200 | 193 | 194 | 182 | 173 | 178 | 159 | 173 | 177 | 180 | 1 | 175 |
|     | 2  | ** | 172 | 171 | 158 | 148 | 150 | 154 | 159 | 167 | 176  | 182 | 185 | 184 | 200 | 196 | 202 | 185 | 178 | 177 | 164 | 170 | 172 | 177 | 177 | 182 | 1 | 174 |
|     | 3  | ** | 183 | 183 | 172 | 157 | 154 | 157 | 158 | 166 | 177  | 177 | 181 | 187 | 188 | 187 | 187 | 177 | 185 | 181 | 179 | 173 | 175 | 178 | 181 | 184 | 1 | 176 |
|     | 4  |    | 185 | 180 | 174 | 161 | 155 | 156 | 158 | 175 | 177  | 182 | 189 | 186 | 181 | 182 | 180 | 179 | 174 | 177 | 179 | 181 | 182 | 184 | 185 | 188 | 0 | 177 |
|     | 5  |    | 180 | 174 | 164 | 149 | 150 | 154 | 160 | 169 | 182  | 188 | 184 | 184 | 189 | 178 | 179 | 174 | 178 | 178 | 177 | 176 | 179 | 182 | 185 | 182 | 0 | 175 |
|     | 6  |    | 172 | 164 | 154 | 144 | 143 | 144 | 156 | 169 | 180  | 182 | 183 | 180 | 180 | 183 | 178 | 178 | 179 | 176 | 166 | 177 | 182 | 183 | 180 | 176 | 0 | 171 |
|     | 7  |    | 170 | 166 | 161 | 151 | 145 | 144 | 151 | 164 | 169  | 172 | 173 | 174 | 176 | 176 | 176 | 173 | 173 | 173 | 173 | 175 | 177 | 180 | 185 | 188 | 0 | 169 |
|     | 8  |    | 188 | 179 | 161 | 146 | 136 | 136 | 147 | 163 | 173  | 175 | 175 | 177 | 179 | 181 | 181 | 180 | 179 | 174 | 174 | 174 | 172 | 178 | 184 | 186 | 0 | 171 |
|     | 9  | *  | 180 | 172 | 163 | 151 | 144 | 138 | 144 | 157 | 166  | 172 | 173 | 173 | 173 | 174 | 175 | 178 | 173 | 169 | 170 | 170 | 172 | 173 | 180 | 180 | 0 | 168 |
|     | 10 | *  | 179 | 172 | 161 | 143 | 130 | 130 | 144 | 159 | 170  | 177 | 180 | 177 | 178 | 178 | 176 | 176 | 174 | 172 | 169 | 170 | 172 | 174 | 179 | 181 | 0 | 168 |
|     | 11 |    | 186 | 180 | 166 | 145 | 134 | 136 | 143 | 155 | 165  | 174 | 179 | 180 | 183 | 195 | 183 | 181 | 180 | 176 | 165 | 169 | 173 | 178 | 179 | 180 | 0 | 170 |
|     | 12 |    | 177 | 166 | 144 | 134 | 126 | 122 | 130 | 144 | 159  | 168 | 173 | 177 | 192 | 195 | 187 | 175 | 173 | 172 | 170 | 162 | 172 | 178 | 179 | 183 | 1 | 165 |
|     | 13 |    | 180 | 168 | 151 | 139 | 139 | 139 | 146 | 157 | 166  | 170 | 172 | 172 | 176 | 179 | 178 | 176 | 174 | 170 | 168 | 168 | 171 | 173 | 176 | 183 | 0 | 166 |
|     | 14 |    | 188 | 183 | 165 | 143 | 137 | 138 | 147 | 159 | 168  | 174 | 174 | 174 | 178 | 182 | 183 | 186 | 184 | 177 | 172 | 166 | 169 | 174 | 182 | 180 | 0 | 170 |
|     | 15 | *  | 175 | 171 | 162 | 153 | 148 | 146 | 149 | 155 | 163  | 168 | 169 | 169 | 170 | 171 | 171 | 170 | 172 | 170 | 167 | 165 | 164 | 167 | 173 | 175 | 0 | 165 |
|     | 16 | *  | 175 | 171 | 165 | 149 | 141 | 140 | 146 | 152 | 160  | 164 | 168 | 168 | 168 | 170 | 171 | 171 | 171 | 170 | 167 | 166 | 166 | 168 | 171 | 174 | 0 | 164 |
|     | 17 | *  | 177 | 173 | 166 | 153 | 149 | 145 | 141 | 144 | 148  | 160 | 164 | 165 | 169 | 170 | 170 | 170 | 170 | 170 | 169 | 169 | 169 | 169 | 172 | 178 | 0 | 164 |
|     | 18 |    | 176 | 173 | 164 | 148 | 145 | 147 | 149 | 151 | 166* | 162 | 164 | 162 | 164 | 168 | 175 | 174 | 172 | 167 | 168 | 167 | 169 | 172 | 177 | 173 | 1 | 165 |
|     | 19 |    | 169 | 165 | 154 | 144 | 144 | 152 | 158 | 164 | 166  | 170 | 174 | 174 | 177 | 179 | 180 | 177 | 177 | 180 | 176 | 173 | 177 | 167 | 175 | 173 | 1 | 169 |
|     | 20 | ** | 166 | 154 | 144 | 141 | 144 | 145 | 148 | 162 | 180  | 184 | 194 | 196 | 199 | 201 | 189 | 179 | 167 | 172 | 170 | 173 | 178 | 184 | 189 | 189 | 1 | 173 |
|     | 21 |    | 178 | 170 | 154 | 148 | 146 | 146 | 151 | 161 | 172  | 177 | 176 | 175 | 179 | 185 | 181 | 173 | 168 | 166 | 168 | 169 | 171 | 179 | 185 | 184 | 0 | 169 |
|     | 22 |    | 166 | 150 | 144 | 136 | 135 | 132 | 143 | 160 | 178  | 183 | 182 | 179 | 179 | 179 | 176 | 174 | 174 | 171 | 170 | 172 | 176 | 179 | 186 | 188 | 0 | 167 |
|     | 23 |    | 180 | 162 | 152 | 146 | 138 | 138 | 146 | 155 | 169  | 179 | 181 | 174 | 171 | 172 | 176 | 187 | 201 | 173 | 158 | 155 | 167 | 176 | 186 | 187 | 1 | 168 |
|     | 24 |    | 175 | 162 | 143 | 135 | 131 | 133 | 146 | 160 | 169  | 178 | 182 | 179 | 183 | 185 | 184 | 176 | 172 | 169 | 169 | 163 | 172 | 175 | 179 | 180 | 0 | 167 |
|     | 25 |    | 177 | 166 | 151 | 138 | 139 | 142 | 145 | 157 | 162  | 169 | 173 | 181 | 181 | 174 | 172 | 171 | 169 | 168 | 169 | 169 | 173 | 176 | 182 | 173 | 0 | 166 |
|     | 26 |    | 172 | 165 | 153 | 141 | 133 | 136 | 147 | 161 | 177  | 179 | 177 | 177 | 184 | 183 | 179 | 172 | 170 | 168 | 169 | 169 | 172 | 177 | 188 | 191 | 0 | 168 |
|     | 27 |    | 185 | 177 | 156 | 137 | 127 | 128 | 139 | 152 | 160  | 166 | 166 | 170 | 173 | 175 | 175 | 175 | 163 | 169 | 163 | 152 | 163 | 170 | 177 | 181 | 1 | 162 |
|     | 28 |    | 181 | 166 | 145 | 133 | 130 | 131 | 140 | 152 | 161  | 167 | 169 | 174 | 190 | 192 | 180 | 173 | 172 | 172 | 170 | 167 | 170 | 174 | 180 | 182 | 0 | 165 |
|     | 29 |    | 180 | 171 | 155 | 143 | 139 | 136 | 141 | 152 | 163  | 169 | 173 | 178 | 181 | 177 | 177 | 178 | 177 | 168 | 166 | 163 | 166 | 170 | 175 | 176 | 1 | 166 |
|     | 30 | ** | 173 | 171 | 161 | 145 | 138 | 134 | 137 | 150 | 159  | 164 | 169 | 171 | 182 | 177 | 175 | 174 | 172 | 161 | 162 | 161 | 165 | 168 | 170 | 177 | 1 | 163 |
|     |    |    | 177 | 170 | 158 | 145 | 141 | 141 | 147 | 158 | 168  | 174 | 176 | 177 | 181 | 182 | 180 | 177 | 176 | 172 | 169 | 169 | 172 | 175 | 180 | 181 |   | 169 |
|     |    | *  | 177 | 172 | 163 | 150 | 142 | 140 | 145 | 153 | 161  | 168 | 171 | 170 | 172 | 173 | 173 | 173 | 172 | 170 | 168 | 168 | 169 | 170 | 175 | 178 |   | 166 |
|     |    | ** | 174 | 169 | 159 | 149 | 147 | 147 | 151 | 161 | 172  | 177 | 183 | 185 | 192 | 193 | 191 | 182 | 179 | 175 | 170 | 171 | 170 | 176 | 179 | 182 |   | 172 |

WATHEROO 2-1154-1-3  
 NOVEMBER 1954  
 HORIZONTAL INTENSITY  
 FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

WATHEROO 2-1154-2-3  
 NOVEMBER 1954  
 DECLINATION WEST  
 FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

WATHEROO 2-1154-3-3  
 NOVEMBER 1954  
 VERTICAL INTENSITY  
 FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

101

|    |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|----|----|------|------|------|------|------|------|------|------|
| 1  | ** | 011  | -126 | -003 | -054 | 000  | 050  | -042 | 031  |
| 2  | ** | 002  | -065 | 000  | -068 | -018 | -017 | 007  | 026  |
| 3  | ** | -011 | -108 | 025  | 007  | 039  | 020  | -048 | -007 |
| 4  |    | 010  | -030 | -014 | -022 | 023  | 021  | -025 | -041 |
| 5  |    | 070  | 012  | -003 | 051  | -010 | 010  | 000  | -004 |
| 6  |    | 028  | -071 | 012  | 000  | 010  | -002 | 007  | 007  |
| 7  |    | 027  | -005 | -007 | 005  | 003  | 001  | -004 | -011 |
| 8  |    | -009 | -017 | 003  | -013 | 010  | -004 | 032  | -030 |
| 9  | *  | -030 | 001  | 034  | -018 | 018  | 019  | -011 | 012  |
| 10 | *  | -020 | -011 | -019 | -089 | 043  | -068 | 034  | -002 |
| 11 |    | 063  | 042  | 018  | -069 | 027  | -029 | 021  | 009  |
| 12 |    | 065  | 111  | -003 | -033 | 045  | 032  | 024  | 028  |
| 13 |    | -017 | -029 | -016 | -039 | 023  | -005 | 011  | -025 |
| 14 |    | -040 | 029  | 006  | -018 | 002  | -025 | 022  | 011  |
| 15 | *  | 063  | -027 | 022  | 010  | 010  | 008  | -007 | -002 |
| 16 | *  | 072  | -016 | 033  | 015  | -013 | 011  | -007 | -003 |
| 17 | *  | 057  | 031  | 018  | 024  | 007  | 027  | -019 | 004  |
| 18 |    | 063  | -058 | 025  | -010 | -057 | 015  | 001  | -004 |
| 19 |    | 038  | 005  | 013  | 054  | 006  | 035  | -025 | 021  |
| 20 | ** | 108  | -046 | -081 | 019  | 000  | 015  | 026  | 019  |
| 21 |    | -028 | -076 | -006 | -008 | -024 | -044 | -008 | -009 |
| 22 |    | 062  | -027 | 016  | 049  | -010 | 051  | -007 | 014  |
| 23 |    | -067 | 018  | -007 | 063  | -038 | 018  | -041 | 047  |
| 24 |    | -006 | 015  | -051 | -036 | -013 | -033 | -013 | -031 |
| 25 |    | 016  | -046 | -007 | -016 | 014  | -008 | -014 | 001  |
| 26 |    | 058  | -042 | 006  | 010  | 004  | 026  | -006 | -017 |
| 27 |    | -012 | -034 | 006  | -043 | 000  | 009  | -020 | 006  |
| 28 |    | 020  | 066  | -052 | -024 | -010 | 021  | 008  | -042 |
| 29 |    | 025  | -009 | -034 | -034 | -008 | -053 | -048 | 004  |
| 30 | ** | 044  | -067 | 036  | 005  | 013  | 068  | -006 | 053  |
|    |    | 022  | -018 | 000  | -008 | 003  | 005  | -006 | 002  |
|    | *  | 027  | -003 | 019  | -011 | 012  | -002 | -002 | 001  |

|    |    | A1  | B1   | A2  | B2  | A3   | B3   | A4   | B4   |
|----|----|-----|------|-----|-----|------|------|------|------|
| 1  | ** | 231 | -305 | 138 | 133 | 044  | 034  | -015 | -032 |
| 2  | ** | 069 | -082 | 204 | 183 | 038  | -002 | -030 | 065  |
| 3  | ** | 167 | -134 | 106 | 141 | 008  | 072  | -012 | 013  |
| 4  |    | 186 | -007 | 134 | 069 | -022 | 057  | -008 | -012 |
| 5  |    | 163 | -124 | 177 | 053 | 032  | 046  | 022  | 014  |
| 6  |    | 179 | -192 | 195 | 023 | 056  | 017  | -041 | -006 |
| 7  |    | 215 | -066 | 111 | 079 | 031  | 048  | -011 | -001 |
| 8  |    | 201 | -136 | 138 | 118 | 056  | 100  | -014 | 011  |
| 9  | *  | 237 | -087 | 124 | 129 | 009  | 081  | -046 | -024 |
| 10 | *  | 198 | -143 | 148 | 071 | 027  | 083  | -025 | 006  |
| 11 |    | 218 | -144 | 159 | 077 | 045  | 008  | -014 | -011 |
| 12 |    | 217 | -094 | 231 | 141 | 045  | 055  | 000  | 038  |
| 13 |    | 192 | -107 | 140 | 067 | 052  | 089  | -026 | 037  |
| 14 |    | 167 | -209 | 179 | 089 | 077  | 112  | -039 | -002 |
| 15 | *  | 192 | -026 | 126 | 118 | 007  | 088  | 011  | -007 |
| 16 | *  | 219 | -032 | 129 | 111 | -009 | 075  | -015 | 009  |
| 17 | *  | 270 | -033 | 086 | 162 | -043 | 047  | -002 | -001 |
| 18 |    | 220 | -094 | 091 | 071 | -004 | 000  | -023 | -023 |
| 19 |    | 226 | -203 | 086 | 101 | 041  | 061  | 005  | 040  |
| 20 | ** | 200 | -201 | 212 | 079 | -008 | -037 | 023  | 025  |
| 21 |    | 166 | -158 | 178 | 090 | 057  | -022 | -011 | 002  |
| 22 |    | 237 | -175 | 197 | 075 | 036  | 083  | -024 | 003  |
| 23 |    | 240 | -228 | 142 | 161 | 125  | 094  | -014 | -123 |
| 24 |    | 175 | -123 | 206 | 090 | 083  | 082  | 001  | 041  |
| 25 |    | 258 | -096 | 138 | 062 | 019  | 041  | -002 | 023  |
| 26 |    | 214 | -164 | 253 | 040 | 051  | 087  | -022 | -012 |
| 27 |    | 286 | -106 | 232 | 129 | 079  | 119  | -048 | 026  |
| 28 |    | 200 | -120 | 170 | 090 | 025  | 066  | 002  | 047  |
| 29 |    | 214 | -154 | 145 | 085 | 025  | 030  | -032 | -035 |
| 30 | ** | 205 | -076 | 182 | 164 | -011 | 068  | -046 | 034  |
|    |    | 206 | -126 | 160 | 100 | 032  | 056  | -014 | 004  |
|    | *  | 224 | -065 | 122 | 119 | -002 | 075  | -017 | -003 |

|    |    | A1   | B1   | A2  | B2   | A3  | B3   | A4   | B4   |
|----|----|------|------|-----|------|-----|------|------|------|
| 1  | ** | -120 | -142 | 106 | 035  | 045 | 005  | -005 | -001 |
| 2  | ** | -114 | -097 | 115 | -011 | 040 | -031 | -006 | 018  |
| 3  | ** | -038 | -088 | 093 | -006 | 034 | 026  | 013  | 016  |
| 4  |    | -013 | -073 | 092 | -051 | 025 | 030  | -007 | 014  |
| 5  |    | -047 | -083 | 089 | -074 | 038 | 023  | 005  | 008  |
| 6  |    | -070 | -111 | 082 | -085 | 045 | 002  | -023 | 009  |
| 7  |    | -010 | -113 | 084 | -057 | 036 | 001  | -008 | 003  |
| 8  |    | -020 | -133 | 126 | -038 | 079 | 031  | -004 | 030  |
| 9  | *  | -008 | -111 | 105 | -025 | 047 | 031  | -017 | 007  |
| 10 | *  | -041 | -129 | 133 | -053 | 064 | 045  | -014 | 022  |
| 11 |    | -044 | -142 | 153 | -005 | 055 | 027  | -012 | 030  |
| 12 |    | -072 | -201 | 182 | -028 | 044 | -002 | 005  | 024  |
| 13 |    | -034 | -128 | 110 | -038 | 065 | 005  | 008  | 016  |
| 14 |    | -027 | -135 | 121 | -002 | 091 | 035  | -006 | 022  |
| 15 | *  | -008 | -078 | 077 | -005 | 039 | 029  | 002  | 001  |
| 16 | *  | -002 | -100 | 085 | -004 | 040 | 036  | -005 | 013  |
| 17 | *  | 033  | -113 | 086 | 020  | 011 | 029  | 007  | 000  |
| 18 |    | 017  | -098 | 067 | -007 | 052 | 013  | -018 | 012  |
| 19 |    | -057 | -117 | 044 | -034 | 038 | 003  | 018  | 018  |
| 20 | ** | -128 | -130 | 153 | -095 | 009 | -039 | 005  | -010 |
| 21 |    | -033 | -093 | 118 | -050 | 045 | -014 | -006 | 011  |
| 22 |    | -077 | -145 | 115 | -114 | 057 | 002  | -014 | -018 |
| 23 |    | -048 | -129 | 113 | -027 | 116 | 015  | -019 | -072 |
| 24 |    | -088 | -139 | 136 | -069 | 065 | -002 | 002  | 012  |
| 25 |    | -036 | -122 | 113 | -059 | 028 | 005  | 018  | 008  |
| 26 |    | -051 | -121 | 138 | -080 | 063 | -002 | -005 | 014  |
| 27 |    | -012 | -123 | 157 | -016 | 089 | 025  | 005  | 028  |
| 28 |    | -057 | -170 | 150 | -036 | 053 | -009 | 028  | 036  |
| 29 |    | -045 | -124 | 128 | -011 | 052 | 024  | 004  | 004  |
| 30 | ** | -032 | -114 | 134 | 005  | 036 | 020  | -011 | 017  |
|    |    | -043 | -121 | 114 | -033 | 048 | 012  | -003 | 010  |
|    | *  | -005 | -107 | 098 | -013 | 040 | 032  | -005 | 009  |

WATHEROO  
DECEMBER 1954  
HORIZONTAL INTENSITY  
24000 PLUS TABULAR VALUES IN GAMMAS

2-1254-1-3

|     |    | 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  | 878 | 886 | 893 | 894 | 890 | 888 | 883 | 888  | 884 | 883 | 886 | 886 | 884 | 886 | 886 | 885 | 886 | 891 | 889 | 890 | 890 | 890 | 895 | 895 | 0   | 888 |     |
|     | 2  | 907 | 909 | 910 | 906 | 903 | 900 | 901 | 898  | 901 | 896 | 892 | 883 | 887 | 894 | 895 | 900 | 901 | 901 | 901 | 902 | 900 | 899 | 896 | 894 | 0   | 899 |     |
|     | 3  | 880 | 894 | 905 | 903 | 897 | 889 | 883 | 887  | 888 | 885 | 889 | 896 | 896 | 898 | 897 | 898 | 895 | 895 | 892 | 892 | 889 | 892 | 896 | 902 | 0   | 893 |     |
|     | 4  | 893 | 903 | 912 | 906 | 902 | 898 | 892 | 887  | 885 | 886 | 883 | 879 | 878 | 881 | 883 | 882 | 882 | 890 | 884 | 883 | 885 | 886 | 886 | 880 | 0   | 889 |     |
|     | 5  | 889 | 882 | 882 | 887 | 891 | 888 | 890 | 889  | 890 | 890 | 886 | 884 | 884 | 886 | 886 | 889 | 891 | 892 | 886 | 883 | 885 | 885 | 887 | 893 | 0   | 887 |     |
|     | 6  | 896 | 899 | 898 | 905 | 911 | 904 | 899 | 892  | 890 | 887 | 889 | 886 | 889 | 888 | 891 | 893 | 893 | 894 | 892 | 892 | 894 | 894 | 895 | 895 | 0   | 894 |     |
|     | 7  | **  | 889 | 892 | 892 | 898 | 906 | 912 | 909  | 907 | 884 | 889 | 893 | 891 | 890 | 893 | 896 | 900 | 896 | 904 | 898 | 898 | 891 | 888 | 891 | 890 | 1   | 896 |
|     | 8  | 882 | 887 | 891 | 888 | 888 | 894 | 895 | 887  | 880 | 878 | 880 | 880 | 878 | 883 | 885 | 890 | 893 | 892 | 894 | 895 | 894 | 893 | 895 | 902 | 0   | 889 |     |
|     | 9  | 903 | 902 | 907 | 906 | 911 | 914 | 903 | 903  | 899 | 894 | 884 | 888 | 890 | 893 | 891 | 888 | 889 | 890 | 890 | 888 | 886 | 889 | 894 | 894 | 1   | 896 |     |
|     | 10 | *   | 889 | 890 | 893 | 891 | 890 | 888 | 886  | 883 | 887 | 888 | 888 | 887 | 887 | 888 | 887 | 890 | 889 | 889 | 887 | 888 | 889 | 892 | 894 | 893 | 0   | 889 |
| 106 | 11 | *   | 891 | 901 | 907 | 912 | 910 | 905 | 901  | 896 | 892 | 890 | 891 | 893 | 893 | 894 | 893 | 895 | 897 | 894 | 895 | 899 | 898 | 899 | 903 | 899 | 0   | 898 |
|     | 12 |     | 892 | 897 | 905 | 905 | 904 | 897 | 885  | 875 | 877 | 877 | 882 | 885 | 882 | 879 | 882 | 885 | 888 | 886 | 885 | 882 | 886 | 891 | 883 | 883 | 0   | 887 |
|     | 13 |     | 887 | 899 | 903 | 906 | 906 | 901 | 893  | 891 | 892 | 890 | 886 | 888 | 888 | 888 | 886 | 885 | 886 | 886 | 887 | 892 | 886 | 889 | 893 | 893 | 0   | 892 |
|     | 14 | *   | 889 | 886 | 882 | 885 | 886 | 883 | 879  | 878 | 882 | 882 | 879 | 880 | 880 | 880 | 879 | 881 | 884 | 882 | 882 | 882 | 883 | 886 | 890 | 894 | 0   | 883 |
|     | 15 | *   | 892 | 889 | 891 | 894 | 894 | 892 | 891  | 890 | 888 | 886 | 885 | 884 | 886 | 886 | 886 | 888 | 886 | 887 | 887 | 888 | 888 | 889 | 891 | 891 | 0   | 889 |
|     | 16 | *   | 889 | 891 | 893 | 895 | 899 | 895 | 895* | 895 | 896 | 898 | 897 | 893 | 894 | 895 | 895 | 897 | 896 | 897 | 898 | 899 | 900 | 903 | 904 | 909 | 0   | 897 |
|     | 17 | **  | 915 | 929 | 931 | 921 | 912 | 913 | 895  | 865 | 856 | 842 | 869 | 873 | 860 | 858 | 859 | 865 | 879 | 882 | 880 | 881 | 881 | 880 | 877 | 874 | 1   | 883 |
|     | 18 | **  | 867 | 867 | 871 | 871 | 865 | 871 | 870  | 869 | 870 | 871 | 881 | 884 | 884 | 880 | 878 | 877 | 877 | 883 | 883 | 879 | 879 | 882 | 878 | 886 | 1   | 876 |
|     | 19 |     | 886 | 882 | 879 | 881 | 882 | 879 | 880  | 880 | 884 | 890 | 891 | 885 | 883 | 885 | 881 | 876 | 876 | 881 | 879 | 884 | 884 | 884 | 890 | 891 | 0   | 883 |
|     | 20 | **  | 890 | 892 | 890 | 888 | 882 | 877 | 875  | 884 | 890 | 888 | 888 | 883 | 878 | 883 | 891 | 892 | 891 | 889 | 899 | 886 | 888 | 895 | 895 | 901 | 1   | 888 |
|     | 21 |     | 904 | 904 | 895 | 883 | 881 | 882 | 893  | 897 | 896 | 894 | 894 | 890 | 891 | 891 | 890 | 889 | 891 | 894 | 890 | 889 | 896 | 897 | 896 | 893 | 1   | 893 |
|     | 22 |     | 892 | 892 | 885 | 879 | 875 | 874 | 879  | 891 | 894 | 890 | 881 | 883 | 885 | 885 | 885 | 884 | 884 | 884 | 882 | 887 | 885 | 884 | 885 | 886 | 0   | 885 |
|     | 23 |     | 886 | 890 | 892 | 895 | 900 | 895 | 895  | 890 | 890 | 890 | 888 | 886 | 887 | 889 | 892 | 894 | 891 | 896 | 888 | 886 | 889 | 889 | 886 | 884 | 0   | 890 |
|     | 24 |     | 880 | 883 | 885 | 888 | 890 | 895 | 896  | 897 | 895 | 892 | 889 | 892 | 895 | 894 | 892 | 889 | 891 | 892 | 899 | 898 | 898 | 897 | 889 | 0   | 892 |     |
|     | 25 |     | 885 | 882 | 877 | 873 | 878 | 892 | 894  | 896 | 892 | 893 | 895 | 893 | 893 | 892 | 891 | 895 | 891 | 891 | 893 | 888 | 888 | 885 | 890 | 885 | 0   | 889 |
|     | 26 |     | 873 | 867 | 865 | 871 | 883 | 891 | 893  | 893 | 893 | 891 | 890 | 891 | 890 | 891 | 891 | 895 | 893 | 896 | 902 | 901 | 902 | 902 | 911 | 898 | 0   | 891 |
|     | 27 | **  | 867 | 852 | 866 | 872 | 882 | 887 | 887  | 891 | 889 | 880 | 877 | 879 | 876 | 880 | 862 | 862 | 864 | 871 | 871 | 877 | 881 | 883 | 879 | 878 | 1   | 876 |
|     | 28 |     | 869 | 865 | 858 | 854 | 865 | 871 | 878  | 884 | 887 | 886 | 871 | 870 | 873 | 873 | 874 | 875 | 882 | 879 | 881 | 884 | 884 | 886 | 890 | 892 | 1   | 876 |
|     | 29 |     | 886 | 885 | 876 | 863 | 863 | 862 | 868  | 884 | 897 | 899 | 888 | 890 | 891 | 888 | 889 | 890 | 883 | 881 | 884 | 886 | 882 | 883 | 890 | 894 | 1   | 883 |
|     | 30 |     | 898 | 894 | 877 | 866 | 863 | 868 | 875  | 895 | 902 | 899 | 893 | 896 | 898 | 892 | 893 | 894 | 892 | 889 | 886 | 886 | 888 | 894 | 895 | 898 | 0   | 889 |
|     | 31 |     | 899 | 892 | 882 | 871 | 866 | 869 | 872  | 877 | 880 | 886 | 891 | 889 | 893 | 890 | 887 | 891 | 893 | 892 | 892 | 892 | 893 | 897 | 901 | 899 | 0   | 887 |
|     |    | *   | 888 | 890 | 890 | 889 | 890 | 890 | 888  | 888 | 888 | 887 | 886 | 886 | 886 | 887 | 886 | 887 | 888 | 889 | 889 | 889 | 889 | 890 | 892 | 892 |     | 889 |
|     |    | **  | 890 | 891 | 893 | 895 | 896 | 893 | 891  | 889 | 888 | 889 | 888 | 888 | 888 | 888 | 889 | 890 | 891 | 890 | 890 | 891 | 892 | 894 | 896 | 897 |     | 891 |
|     |    |     | 886 | 886 | 890 | 890 | 889 | 892 | 887  | 883 | 878 | 874 | 882 | 882 | 878 | 879 | 877 | 879 | 881 | 886 | 886 | 884 | 884 | 886 | 884 | 886 |     | 884 |

WATHEROO  
DECEMBER 1954  
DECLINATION WEST  
2 DEGREES PLUS TABULAR VALUES IN TENTHS OF MINUTES

|     |    | 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  | 476 | 481 | 475 | 455 | 440 | 426 | 416 | 405  | 410 | 423 | 428 | 428 | 433 | 435 | 436 | 440 | 444 | 441 | 441 | 443 | 451 | 455 | 460 | 475 | 0   | 442 |     |     |
|     | 2  | 471 | 473 | 472 | 466 | 451 | 434 | 416 | 405  | 410 | 420 | 440 | 437 | 433 | 436 | 442 | 444 | 445 | 447 | 447 | 450 | 456 | 461 | 478 | 488 | 0   | 447 |     |     |
|     | 3  | 485 | 480 | 460 | 429 | 405 | 396 | 396 | 397  | 405 | 416 | 423 | 426 | 427 | 433 | 436 | 439 | 442 | 444 | 447 | 447 | 447 | 457 | 459 | 466 | 0   | 436 |     |     |
|     | 4  | 470 | 477 | 471 | 457 | 444 | 424 | 411 | 409  | 418 | 420 | 428 | 431 | 445 | 449 | 441 | 442 | 444 | 439 | 441 | 441 | 445 | 452 | 471 | 485 | 0   | 444 |     |     |
|     | 5  | 500 | 496 | 488 | 475 | 457 | 436 | 421 | 410  | 410 | 417 | 426 | 431 | 445 | 436 | 436 | 439 | 447 | 468 | 464 | 454 | 447 | 447 | 455 | 457 | 465 | 0   | 449 |     |
|     | 6  | 480 | 480 | 475 | 457 | 437 | 420 | 405 | 404  | 414 | 417 | 425 | 426 | 430 | 434 | 439 | 444 | 444 | 444 | 443 | 443 | 439 | 450 | 465 | 481 | 0   | 442 |     |     |
|     | 7  | **  | 489 | 492 | 480 | 453 | 428 | 410 | 395  | 392 | 404 | 412 | 418 | 425 | 427 | 431 | 436 | 439 | 442 | 445 | 445 | 440 | 453 | 457 | 468 | 488 | 1   | 440 |     |
|     | 8  |     | 499 | 500 | 485 | 457 | 422 | 399 | 395  | 405 | 415 | 423 | 433 | 435 | 437 | 437 | 437 | 437 | 437 | 442 | 441 | 442 | 447 | 455 | 470 | 491 | 0   | 443 |     |
|     | 9  |     | 516 | 509 | 487 | 447 | 413 | 385 | 380  | 385 | 395 | 409 | 425 | 426 | 426 | 429 | 436 | 439 | 437 | 437 | 436 | 433 | 435 | 447 | 460 | 486 | 1   | 437 |     |
|     | 10 | *   | 495 | 499 | 482 | 445 | 416 | 405 | 399  | 406 | 416 | 426 | 434 | 432 | 434 | 437 | 437 | 439 | 439 | 441 | 439 | 439 | 437 | 447 | 457 | 468 | 0   | 440 |     |
| 107 | 11 | *   | 477 | 476 | 456 | 427 | 410 | 395 | 396  | 406 | 416 | 425 | 428 | 432 | 429 | 432 | 437 | 438 | 438 | 442 | 442 | 447 | 447 | 454 | 461 | 482 | 0   | 437 |     |
|     | 12 |     | 495 | 497 | 479 | 447 | 417 | 406 | 410  | 416 | 425 | 430 | 433 | 435 | 439 | 437 | 437 | 440 | 437 | 447 | 451 | 453 | 455 | 466 | 463 | 463 | 0   | 445 |     |
|     | 13 |     | 486 | 484 | 479 | 449 | 421 | 411 | 415  | 416 | 426 | 436 | 437 | 428 | 428 | 430 | 436 | 437 | 438 | 437 | 427 | 428 | 442 | 448 | 462 | 476 | 0   | 441 |     |
|     | 14 | *   | 492 | 503 | 487 | 459 | 428 | 405 | 390  | 395 | 409 | 426 | 437 | 437 | 437 | 437 | 439 | 442 | 441 | 439 | 439 | 439 | 442 | 447 | 459 | 479 | 0   | 442 |     |
|     | 15 | *   | 490 | 502 | 495 | 467 | 441 | 428 | 423  | 421 | 424 | 427 | 431 | 429 | 430 | 434 | 436 | 436 | 438 | 442 | 442 | 442 | 445 | 448 | 458 | 473 | 0   | 446 |     |
|     | 16 | *   | 478 | 479 | 476 | 460 | 447 | 429 | 411* | 406 | 412 | 416 | 421 | 426 | 428 | 430 | 434 | 442 | 441 | 440 | 443 | 446 | 449 | 456 | 464 | 471 | 0   | 442 |     |
|     | 17 | **  | 476 | 478 | 468 | 454 | 438 | 418 | 400  | 385 | 376 | 374 | 400 | 415 | 437 | 428 | 437 | 449 | 450 | 448 | 458 | 458 | 459 | 467 | 481 | 488 | 1   | 439 |     |
|     | 18 | **  | 489 | 463 | 450 | 437 | 424 | 423 | 416  | 410 | 410 | 417 | 437 | 426 | 429 | 439 | 448 | 445 | 444 | 444 | 449 | 451 | 450 | 454 | 450 | 458 | 1   | 440 |     |
|     | 19 |     | 470 | 478 | 464 | 446 | 433 | 426 | 416  | 407 | 402 | 405 | 413 | 420 | 426 | 432 | 463 | 456 | 447 | 447 | 448 | 447 | 447 | 457 | 463 | 468 | 0   | 441 |     |
|     | 20 | **  | 474 | 478 | 469 | 458 | 445 | 428 | 416  | 415 | 413 | 415 | 423 | 426 | 439 | 433 | 434 | 439 | 444 | 447 | 456 | 462 | 462 | 471 | 462 | 462 | 1   | 445 |     |
|     | 21 |     | 469 | 475 | 467 | 451 | 428 | 418 | 411  | 406 | 406 | 412 | 416 | 424 | 440 | 437 | 440 | 443 | 445 | 445 | 440 | 444 | 446 | 450 | 457 | 468 | 1   | 439 |     |
|     | 22 |     | 477 | 476 | 470 | 458 | 443 | 421 | 408  | 402 | 401 | 407 | 425 | 433 | 435 | 437 | 439 | 446 | 447 | 450 | 447 | 444 | 447 | 450 | 457 | 466 | 0   | 441 |     |
|     | 23 |     | 473 | 478 | 466 | 442 | 421 | 419 | 421  | 419 | 416 | 416 | 426 | 433 | 438 | 447 | 440 | 439 | 443 | 449 | 456 | 452 | 457 | 470 | 483 | 493 | 0   | 446 |     |
|     | 24 |     | 500 | 497 | 478 | 457 | 437 | 434 | 437  | 437 | 434 | 431 | 428 | 426 | 427 | 431 | 437 | 437 | 439 | 442 | 445 | 447 | 449 | 460 | 477 | 482 | 0   | 449 |     |
|     | 25 |     | 472 | 462 | 451 | 426 | 407 | 414 | 413  | 411 | 417 | 426 | 426 | 427 | 429 | 436 | 438 | 447 | 442 | 445 | 443 | 451 | 451 | 464 | 481 | 499 | 0   | 441 |     |
|     | 26 |     | 505 | 490 | 457 | 430 | 410 | 406 | 416  | 428 | 434 | 430 | 430 | 435 | 433 | 436 | 438 | 447 | 444 | 444 | 447 | 453 | 457 | 473 | 499 | 520 | 0   | 448 |     |
|     | 27 | **  | 521 | 485 | 421 | 401 | 393 | 388 | 395  | 406 | 416 | 425 | 429 | 427 | 434 | 480 | 456 | 447 | 447 | 447 | 453 | 462 | 466 | 478 | 499 | 505 | 1   | 445 |     |
|     | 28 |     | 500 | 489 | 468 | 440 | 414 | 400 | 395  | 397 | 411 | 425 | 436 | 445 | 440 | 444 | 442 | 438 | 437 | 438 | 442 | 447 | 453 | 468 | 489 | 510 | 1   | 445 |     |
|     | 29 |     | 510 | 500 | 486 | 458 | 426 | 411 | 394  | 385 | 385 | 406 | 440 | 444 | 444 | 437 | 439 | 442 | 449 | 450 | 446 | 443 | 442 | 447 | 461 | 477 | 495 | 1   | 445 |
|     | 30 |     | 506 | 499 | 469 | 437 | 416 | 398 | 386  | 391 | 395 | 406 | 416 | 420 | 427 | 431 | 435 | 437 | 437 | 437 | 439 | 443 | 447 | 457 | 473 | 489 | 0   | 437 |     |
| 31  |    | 508 | 507 | 486 | 459 | 429 | 414 | 405 | 412  | 412 | 416 | 426 | 429 | 426 | 431 | 437 | 440 | 438 | 438 | 439 | 437 | 442 | 452 | 464 | 479 | 0   | 443 |     |     |
|     |    | *   | 489 | 487 | 472 | 449 | 427 | 414 | 407  | 406 | 411 | 418 | 427 | 429 | 433 | 437 | 439 | 442 | 443 | 444 | 445 | 446 | 449 | 458 | 469 | 481 |     | 443 |     |
|     |    | *   | 486 | 492 | 479 | 452 | 428 | 412 | 404  | 407 | 415 | 424 | 430 | 431 | 432 | 434 | 437 | 439 | 439 | 441 | 441 | 443 | 444 | 450 | 460 | 475 |     | 441 |     |
|     |    | **  | 490 | 479 | 458 | 441 | 426 | 413 | 404  | 402 | 404 | 409 | 421 | 424 | 433 | 442 | 442 | 444 | 445 | 446 | 452 | 455 | 458 | 465 | 472 | 480 |     | 442 |     |

WATHEROO  
DECEMBER 1954  
VERTICAL INTENSITY  
52000 PLUS TABULAR VALUES IN GAMMAS

2-1254-3-3

|     |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  |     |     |     |     |     |     |     |     |     |     |   |     |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 101 | 1  |     | 181 | 172 | 153 |     | 144 | 147 | 142 |     | 144 | 146 | 157 |     | 165 | 167 | 167 |     | 170 | 171 | 171 |     | 173 | 172 | 168 |     | 166 | 166 | 168 | 168 | 171 | 177 | 0   | 164 |     |   |     |
|     | 2  |     | 174 | 168 | 162 |     | 153 | 146 | 139 |     | 135 | 142 | 154 |     | 167 | 178 | 176 |     | 171 | 169 | 171 |     | 170 | 170 | 171 |     | 167 | 167 | 170 | 172 | 176 | 178 | 0   | 164 |     |   |     |
|     | 3  |     | 171 | 155 | 139 |     | 130 | 128 | 136 |     | 144 | 149 | 158 |     | 161 | 164 | 162 |     | 162 | 164 | 166 |     | 167 | 167 | 168 |     | 168 | 167 | 166 | 168 | 166 | 168 | 0   | 158 |     |   |     |
|     | 4  |     | 172 | 171 | 161 |     | 154 | 143 | 136 |     | 138 | 149 | 161 |     | 164 | 167 | 168 |     | 176 | 175 | 169 |     | 170 | 170 | 164 |     | 166 | 167 | 167 | 172 | 181 | 184 | 0   | 164 |     |   |     |
|     | 5  |     | 181 | 171 | 155 |     | 142 | 133 | 133 |     | 137 | 145 | 152 |     | 159 | 164 | 166 |     | 167 | 166 | 167 |     | 167 | 177 | 169 |     | 165 | 162 | 162 | 167 | 167 | 167 | 0   | 160 |     |   |     |
|     | 6  |     | 170 | 162 | 143 |     | 136 | 134 | 134 |     | 138 | 151 | 162 |     | 167 | 170 | 169 |     | 167 | 167 | 168 |     | 167 | 166 | 165 |     | 167 | 166 | 165 | 167 | 167 | 167 | 174 | 181 | 185 | 0 | 162 |
|     | 7  | **  | 184 | 170 | 150 |     | 139 | 139 | 135 |     | 136 | 146 | 166 |     | 171 | 172 | 172 |     | 171 | 169 | 168 |     | 166 | 166 | 165 |     | 166 | 165 | 165 | 166 | 165 | 173 | 175 | 178 | 186 | 1 | 164 |
|     | 8  |     | 180 | 170 | 154 |     | 136 | 128 | 132 |     | 147 | 161 | 172 |     | 177 | 178 | 176 |     | 175 | 171 | 168 |     | 165 | 166 | 166 |     | 165 | 166 | 166 | 165 | 165 | 171 | 175 | 182 | 185 | 0 | 165 |
|     | 9  |     | 183 | 166 | 133 |     | 115 | 110 | 112 |     | 125 | 141 | 156 |     | 166 | 172 | 170 |     | 167 | 167 | 167 |     | 166 | 162 | 159 |     | 160 | 160 | 163 | 170 | 177 | 186 | 1   | 156 |     |   |     |
|     | 10 | *   | 178 | 161 | 136 |     | 123 | 123 | 130 |     | 141 | 153 | 167 |     | 170 | 171 | 168 |     | 170 | 170 | 168 |     | 165 | 164 | 163 |     | 165 | 164 | 163 | 161 | 161 | 161 | 167 | 172 | 175 | 0 | 159 |
| 102 | 11 | *   | 168 | 153 | 136 |     | 126 | 120 | 118 |     | 130 | 145 | 158 |     | 165 | 167 | 166 |     | 166 | 166 | 168 |     | 166 | 164 | 163 |     | 161 | 160 | 161 | 165 | 169 | 178 | 0   | 156 |     |   |     |
|     | 12 |     | 175 | 165 | 148 |     | 124 | 111 | 115 |     | 134 | 149 | 160 |     | 164 | 165 | 166 |     | 171 | 171 | 167 |     | 167 | 163 | 166 |     | 165 | 167 | 164 | 169 | 169 | 166 | 0   | 158 |     |   |     |
|     | 13 |     | 171 | 161 | 150 |     | 136 | 131 | 138 |     | 150 | 160 | 168 |     | 171 | 169 | 166 |     | 169 | 169 | 172 |     | 162 | 171 | 168 |     | 161 | 158 | 165 | 168 | 174 | 180 | 0   | 162 |     |   |     |
|     | 14 | *   | 184 | 178 | 161 |     | 138 | 131 | 131 |     | 138 | 150 | 161 |     | 169 | 172 | 168 |     | 170 | 171 | 172 |     | 172 | 169 | 168 |     | 166 | 164 | 166 | 168 | 173 | 180 | 0   | 163 |     |   |     |
|     | 15 | *   | 182 | 180 | 162 |     | 141 | 134 | 136 |     | 143 | 154 | 162 |     | 164 | 165 | 165 |     | 166 | 169 | 169 |     | 168 | 168 | 168 |     | 168 | 168 | 168 | 164 | 162 | 162 | 163 | 167 | 171 | 0 | 162 |
|     | 16 | *   | 168 | 160 | 148 |     | 136 | 132 | 136 |     | 138 | 129 | 143 |     | 151 | 153 | 154 |     | 155 | 156 | 158 |     | 158 | 157 | 155 |     | 154 | 152 | 152 | 153 | 154 | 154 | 0   | 150 |     |   |     |
|     | 17 | **  | 153 | 151 | 139 |     | 128 | 126 | 125 |     | 131 | 143 | 156 |     | 162 | 167 | 170 |     | 185 | 181 | 182 |     | 182 | 173 | 167 |     | 170 | 165 | 166 | 169 | 173 | 164 | 1   | 160 |     |   |     |
|     | 18 | **  | 157 | 144 | 143 |     | 144 | 142 | 147 |     | 151 | 154 | 158 |     | 164 | 170 | 160 |     | 160 | 166 | 170 |     | 166 | 166 | 063 |     | 065 | 064 | 063 | 063 | 059 | 057 | 1   | 129 |     |   |     |
|     | 19 |     | 159 | 156 | 143 |     | 144 | 146 | 147 |     | 148 | 149 | 151 |     | 152 | 158 | 160 |     | 161 | 161 | 175 |     | 167 | 162 | 160 |     | 159 | 156 | 156 | 160 | 157 | 155 | 0   | 156 |     |   |     |
|     | 20 | **  | 153 | 152 | 151 |     | 149 | 149 | 147 |     | 144 | 148 | 148 |     | 149 | 157 | 162 |     | 168 | 160 | 157 |     | 158 | 160 | 161 |     | 160 | 163 | 162 | 163 | 157 | 154 | 1   | 156 |     |   |     |
| 103 | 21 |     | 153 | 153 | 150 |     | 143 | 130 | 130 |     | 130 | 138 | 148 |     | 155 | 155 | 159 |     | 165 | 161 | 160 |     | 159 | 157 | 154 |     | 152 | 154 | 154 | 156 | 158 | 161 | 1   | 151 |     |   |     |
|     | 22 |     | 162 | 158 | 157 |     | 148 | 137 | 133 |     | 132 | 133 | 137 |     | 146 | 157 | 158 |     | 157 | 156 | 156 |     | 156 | 154 | 155 |     | 153 | 151 | 155 | 158 | 162 | 166 | 0   | 152 |     |   |     |
|     | 23 |     | 167 | 162 | 154 |     | 131 | 119 | 124 |     | 137 | 142 | 143 |     | 150 | 161 | 165 |     | 164 | 162 | 156 |     | 153 | 154 | 155 |     | 157 | 157 | 160 | 166 | 170 | 170 | 0   | 153 |     |   |     |
|     | 24 |     | 165 | 151 | 135 |     | 128 | 121 | 129 |     | 138 | 144 | 150 |     | 153 | 153 | 153 |     | 156 | 159 | 159 |     | 158 | 156 | 155 |     | 154 | 153 | 155 | 162 | 168 | 168 | 0   | 151 |     |   |     |
|     | 25 |     | 156 | 146 | 134 |     | 114 | 115 | 120 |     | 120 | 125 | 136 |     | 143 | 148 | 153 |     | 155 | 157 | 157 |     | 155 | 152 | 154 |     | 150 | 155 | 156 | 163 | 171 | 177 | 0   | 146 |     |   |     |
|     | 26 |     | 174 | 154 | 127 |     | 119 | 122 | 128 |     | 141 | 154 | 157 |     | 156 | 156 | 158 |     | 158 | 158 | 158 |     | 158 | 155 | 152 |     | 150 | 153 | 155 | 163 | 172 | 177 | 0   | 152 |     |   |     |
|     | 27 | **  | 171 | 141 | 108 |     | 119 | 126 | 131 |     | 138 | 147 | 153 |     | 161 | 165 | 163 |     | 169 | 190 | 174 |     | 164 | 161 | 158 |     | 159 | 160 | 160 | 167 | 176 | 171 | 1   | 156 |     |   |     |
|     | 28 |     | 160 | 152 | 137 |     | 127 | 125 | 128 |     | 134 | 138 | 146 |     | 159 | 169 | 172 |     | 166 | 166 | 164 |     | 161 | 156 | 156 |     | 155 | 156 | 158 | 164 | 169 | 166 | 1   | 154 |     |   |     |
|     | 29 |     | 155 | 141 | 130 |     | 116 | 109 | 110 |     | 115 | 119 | 130 |     | 148 | 168 | 162 |     | 157 | 158 | 158 |     | 158 | 160 | 155 |     | 152 | 149 | 151 | 159 | 163 | 168 | 1   | 145 |     |   |     |
|     | 30 |     | 170 | 155 | 136 |     | 120 | 114 | 111 |     | 114 | 120 | 132 |     | 148 | 155 | 154 |     | 157 | 157 | 159 |     | 155 | 156 | 154 |     | 154 | 153 | 152 | 156 | 166 | 169 | 0   | 147 |     |   |     |
| 31  |    | 170 | 162 | 148 |     | 136 | 128 | 131 |     | 135 | 135 | 137 |     | 144 | 150 | 152 |     | 149 | 154 | 156 |     | 155 | 153 | 152 |     | 152 | 149 | 149 | 152 | 156 | 165 | 0   | 149 |     |     |   |     |
| 104 |    | 169 | 159 | 145 |     | 134 | 129 | 130 |     | 136 | 144 | 153 |     | 159 | 164 | 164 |     | 165 | 166 | 165 |     | 164 | 163 | 158 |     | 157 | 156 | 158 | 162 | 166 | 168 |     | 156 |     |     |   |     |
|     | *  | 176 | 166 | 149 |     | 133 | 128 | 130 |     | 138 | 146 | 158 |     | 164 | 166 | 164 |     | 165 | 166 | 167 |     | 166 | 164 | 163 |     | 161 | 160 | 160 | 163 | 167 | 172 |     | 158 |     |     |   |     |
|     | ** | 164 | 152 | 138 |     | 136 | 136 | 137 |     | 140 | 148 | 156 |     | 161 | 166 | 165 |     | 171 | 173 | 170 |     | 167 | 165 | 143 |     | 144 | 143 | 145 | 147 | 149 | 146 |     | 153 |     |     |   |     |

WATHEROO  
DECEMBER 1954  
HORIZONTAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1254-1-3

WATHEROO  
DECEMBER 1954  
DECLINATION WEST  
FOURIER COEFFICIENTS IN HUNDREDTHS OF MINUTES

2-1254-2-3

WATHEROO  
DECEMBER 1954  
VERTICAL INTENSITY  
FOURIER COEFFICIENTS IN TENTHS OF GAMMAS

2-1254-3-3

|     |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|-----|----|------|------|------|------|------|------|------|------|
| 109 | 1  | 029  | -008 | -007 | 000  | -017 | -005 | -008 | -017 |
|     | 2  | 057  | 013  | -035 | 027  | 016  | 025  | -025 | 020  |
|     | 3  | -010 | -017 | 016  | 049  | -023 | -001 | -018 | -018 |
|     | 4  | 069  | 070  | -026 | 056  | -020 | 030  | -023 | 003  |
|     | 5  | -003 | 005  | -014 | -002 | 026  | -005 | 009  | -020 |
|     | 6  | 050  | 035  | -031 | 034  | -014 | -013 | 002  | -019 |
|     | 7  | **   | -005 | 023  | -076 | 028  | -005 | -026 | 034  |
|     | 8  | 057  | -028 | -039 | -002 | 008  | -025 | 014  | -011 |
|     | 9  | 044  | 091  | -028 | 040  | 005  | -013 | 009  | 010  |
|     | 10 | *    | 025  | -002 | 008  | 007  | -004 | -005 | 001  |
|     | 11 | *    | 051  | 029  | -025 | 029  | -031 | -016 | -011 |
|     | 12 |      | 069  | 035  | -013 | 069  | -044 | 016  | -010 |
|     | 13 |      | 043  | 060  | -015 | 029  | -028 | 001  | -011 |
|     | 14 | *    | 042  | -004 | 016  | -001 | 011  | -003 | 007  |
|     | 15 | *    | 027  | 018  | -008 | 010  | 001  | -011 | -002 |
|     | 16 | *    | 017  | -018 | -001 | -027 | 001  | -019 | -005 |
|     | 17 | **   | 239  | 115  | -044 | 157  | -074 | 063  | 043  |
|     | 18 | **   | -021 | -062 | 022  | -019 | -020 | -006 | 022  |
|     | 19 | **   | 004  | 005  | 039  | -034 | -002 | 002  | 004  |
|     | 20 | **   | 037  | -044 | 020  | -008 | 033  | 025  | -023 |
|     | 21 |      | 017  | -008 | 037  | -025 | 036  | 018  | 000  |
|     | 22 |      | 001  | -008 | 026  | -020 | 037  | 022  | -016 |
|     | 23 |      | -003 | 018  | -035 | 027  | -004 | -005 | -011 |
|     | 24 |      | -016 | -011 | -022 | -041 | -019 | -037 | -005 |
|     | 25 |      | -059 | -019 | -008 | -034 | 027  | -015 | 024  |
|     | 26 |      | -028 | -083 | -034 | -098 | 008  | -066 | 018  |
|     | 27 | **   | 021  | 053  | -031 | -088 | -023 | -055 | 016  |
|     | 28 |      | -005 | -054 | -013 | -099 | 057  | -034 | 007  |
|     | 29 |      | -048 | -055 | 078  | -056 | 057  | 026  | -017 |
|     | 30 |      | -044 | -057 | 084  | -060 | 076  | 018  | -004 |
|     | 31 |      | 019  | -101 | 076  | -032 | 031  | 017  | 014  |
|     |    |      | 021  | 001  | -003 | -002 | 002  | -003 | 002  |
|     | *  |      | 031  | 003  | -003 | 003  | -004 | -011 | -002 |

|   |    | A1  | B1   | A2   | B2  | A3   | B3   | A4   | B4   |
|---|----|-----|------|------|-----|------|------|------|------|
| 1 | 1  | 222 | -075 | 122  | 096 | -001 | 052  | -007 | -009 |
|   | 2  | 232 | -090 | 119  | 081 | -028 | 026  | 002  | -065 |
|   | 3  | 209 | -187 | 171  | 056 | 047  | 091  | -002 | 038  |
|   | 4  | 195 | -079 | 151  | 103 | 002  | 019  | 000  | -013 |
|   | 5  | 251 | -075 | 070  | 182 | 005  | 102  | 022  | -014 |
|   | 6  | 230 | -092 | 137  | 116 | 029  | 066  | -005 | -015 |
|   | 7  | **  | 293  | -139 | 181 | 115  | 024  | 084  | -008 |
|   | 8  |     | 262  | -105 | 240 | 093  | 040  | 119  | -013 |
|   | 9  |     | 305  | -142 | 282 | 159  | 069  | 154  | -002 |
|   | 10 | *   | 207  | -089 | 206 | 104  | 052  | 131  | -012 |
| 2 | 11 | *   | 187  | -160 | 185 | 019  | 061  | 082  | -004 |
|   | 12 |     | 215  | -112 | 170 | 042  | 028  | 114  | -025 |
|   | 13 |     | 196  | -030 | 180 | 061  | 078  | 089  | -034 |
|   | 14 | *   | 231  | -094 | 230 | 137  | 014  | 139  | -025 |
|   | 15 | *   | 247  | 000  | 128 | 116  | 025  | 103  | -016 |
|   | 16 | *   | 249  | -071 | 101 | 105  | -008 | 047  | -014 |
|   | 17 | **  | 343  | -235 | 110 | 153  | -036 | -013 | 042  |
|   | 18 | **  | 155  | -135 | 099 | 061  | 026  | 037  | 017  |
|   | 19 | **  | 213  | -150 | 078 | 136  | 035  | -003 | -014 |
|   | 20 | **  | 236  | -113 | 066 | 061  | -045 | 040  | -010 |
| 3 | 21 |     | 196  | -118 | 113 | 114  | 007  | 036  | 000  |
|   | 22 |     | 209  | -117 | 107 | 139  | -021 | 057  | 014  |
|   | 23 |     | 226  | -147 | 142 | 023  | 033  | 006  | 027  |
|   | 24 |     | 262  | -006 | 113 | 040  | 083  | 047  | 008  |
|   | 25 |     | 200  | -170 | 156 | -015 | 087  | 003  | 017  |
|   | 26 |     | 266  | -148 | 225 | -042 | 149  | 026  | 030  |
|   | 27 | **  | 209  | -310 | 287 | -041 | 145  | -021 | 045  |
|   | 28 |     | 257  | -165 | 290 | 031  | 049  | 057  | 019  |
|   | 29 |     | 292  | -163 | 260 | 159  | 011  | 093  | 035  |
|   | 30 |     | 313  | -171 | 238 | 103  | 060  | 078  | 014  |
|   | 31 |     | 285  | -059 | 194 | 128  | 059  | 104  | -005 |
|   |    |     | 240  | -121 | 166 | 085  | 034  | 064  | 003  |
|   | *  |     | 224  | -083 | 170 | 096  | 028  | 100  | -014 |

|   |    | A1   | B1   | A2   | B2   | A3   | B3   | A4   | B4   |
|---|----|------|------|------|------|------|------|------|------|
| 1 | 1  | 000  | -113 | 094  | -005 | 043  | 021  | 012  | 001  |
|   | 2  | -001 | -119 | 116  | -012 | 004  | 046  | -006 | -031 |
|   | 3  | -029 | -141 | 064  | -062 | 058  | 014  | 018  | 015  |
|   | 4  | 010  | -112 | 120  | -013 | 028  | 018  | -011 | 000  |
|   | 5  | -001 | -131 | 099  | 001  | 052  | 049  | 011  | 010  |
|   | 6  | -010 | -133 | 112  | -074 | 057  | 009  | 008  | -010 |
|   | 7  | **   | 006  | -121 | 138  | -062 | 050  | 030  | 005  |
|   | 8  |      | -025 | -102 | 141  | -093 | 073  | 031  | 006  |
|   | 9  |      | -025 | -182 | 195  | -091 | 101  | 034  | 020  |
|   | 10 | *    | -053 | -123 | 127  | -084 | 089  | 016  | 022  |
| 2 | 11 | *    | -048 | -159 | 131  | -070 | 075  | 025  | 004  |
|   | 12 |      | -040 | -168 | 135  | -066 | 071  | 047  | -004 |
|   | 13 |      | -041 | -100 | 092  | -054 | 090  | 005  | 001  |
|   | 14 | *    | -004 | -123 | 135  | -023 | 072  | 053  | -002 |
|   | 15 | *    | 000  | -093 | 102  | -005 | 070  | 052  | 003  |
|   | 16 | *    | 002  | -090 | 075  | 014  | 027  | 030  | 011  |
|   | 17 | **   | -105 | -203 | 107  | -029 | 029  | -011 | -014 |
|   | 18 | **   | -372 | 317  | 098  | 265  | 098  | 029  | -084 |
|   | 19 | **   | -039 | -078 | 031  | 012  | 022  | -016 | 001  |
|   | 20 | **   | -016 | -074 | 025  | -006 | -031 | 000  | 009  |
| 3 | 21 |      | -027 | -097 | 091  | -003 | 011  | 021  | -016 |
|   | 22 |      | 030  | -087 | 096  | 018  | 000  | 025  | 002  |
|   | 23 |      | 013  | -119 | 134  | -044 | 028  | 022  | 020  |
|   | 24 |      | -007 | -117 | 092  | -053 | 070  | -010 | 014  |
|   | 25 |      | 015  | -180 | 132  | -051 | 048  | -016 | 020  |
|   | 26 |      | -071 | -103 | 115  | -087 | 104  | -022 | 034  |
|   | 27 | **   | -088 | -168 | 121  | -080 | 064  | -070 | 041  |
|   | 28 |      | -051 | -130 | 129  | -054 | 023  | 003  | 016  |
|   | 29 |      | -043 | -197 | 158  | -044 | 037  | 028  | 018  |
|   | 30 |      | 009  | -183 | 158  | -022 | 050  | 037  | 019  |
|   | 31 |      | 031  | -089 | 093  | 014  | 047  | 024  | 022  |
|   |    |      | -029 | -114 | 112  | -028 | 050  | 017  | 005  |
|   | *  |      | -020 | -117 | 115  | -034 | 067  | 036  | 007  |



## EXPLANATION OF TABLES OF MEAN HOURLY VALUES, FOURIER COEFFICIENTS ETC.

### General

The preceding tables are arranged in monthly groups consisting of:

Mean Hourly Values of Horizontal Intensity (H)  
Mean Hourly Values of Declination (D)  
Mean Hourly Values of Vertical Intensity (Z)  
Daily Fourier Coefficients of H, D, Z for each month.

The five international quiet days and the five international disturbed days are indicated by \* and \*\* respectively at the left of the tables.

### Mean Hourly Values tables

The tabulated values are means for hourly periods commencing at Greenwich midnight. Thus the column marked 1 gives the mean for the period 00-01 GMT.

Daily character figures C and daily mean values are given in the right hand columns of each table. Monthly mean values for each hourly period are given at the bottom of the tables for three groups of days:

All days  
Five international quiet days (\*)  
Five international disturbed days (\*\*).

The grand means at the bottom right hand corner are the means of the values in the corresponding rows.

Doubtful values are indicated by \* immediately following the value. Daily means and monthly means for hourly periods are shown as doubtful if more than three values are missing from that day or hour. Monthly means for hourly periods for five international quiet or disturbed days are shown as doubtful if any of the five values is missing.

### Fourier Coefficients tables

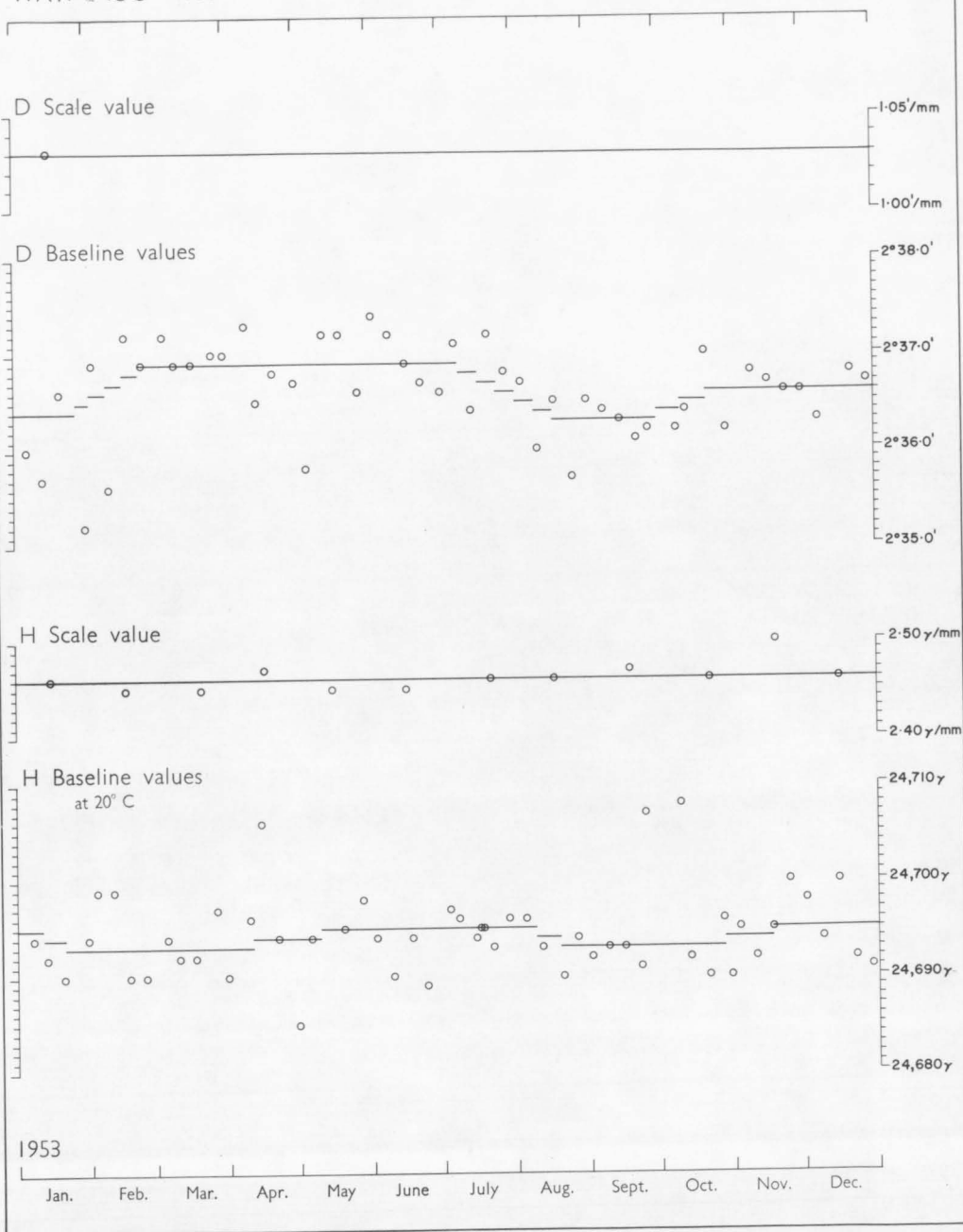
The tabulated values are the first four pairs of Fourier coefficients of the daily variation of H, D, Z. At the bottom of the tables, coefficients are given of the monthly mean variation for:

All days  
Five international quiet days (\*)



WATHEROO 1953

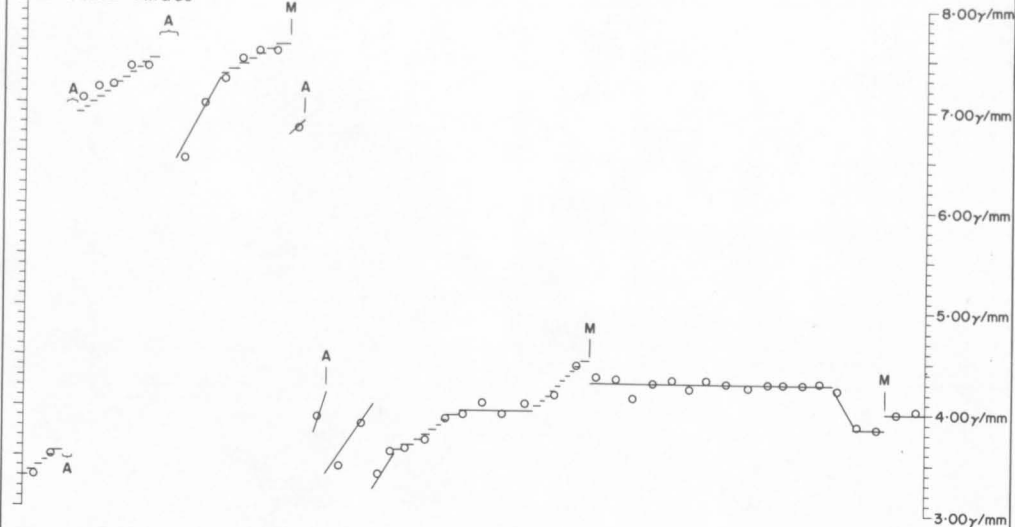
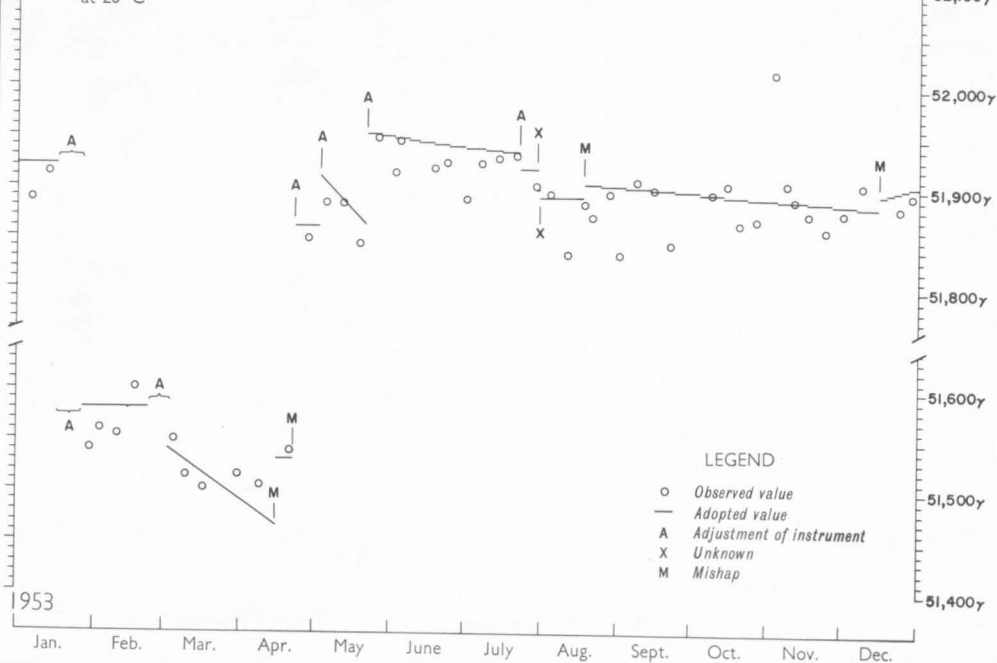
FIGURE 1



WATHEROO 1953

FIGURE 1

Z Scale values

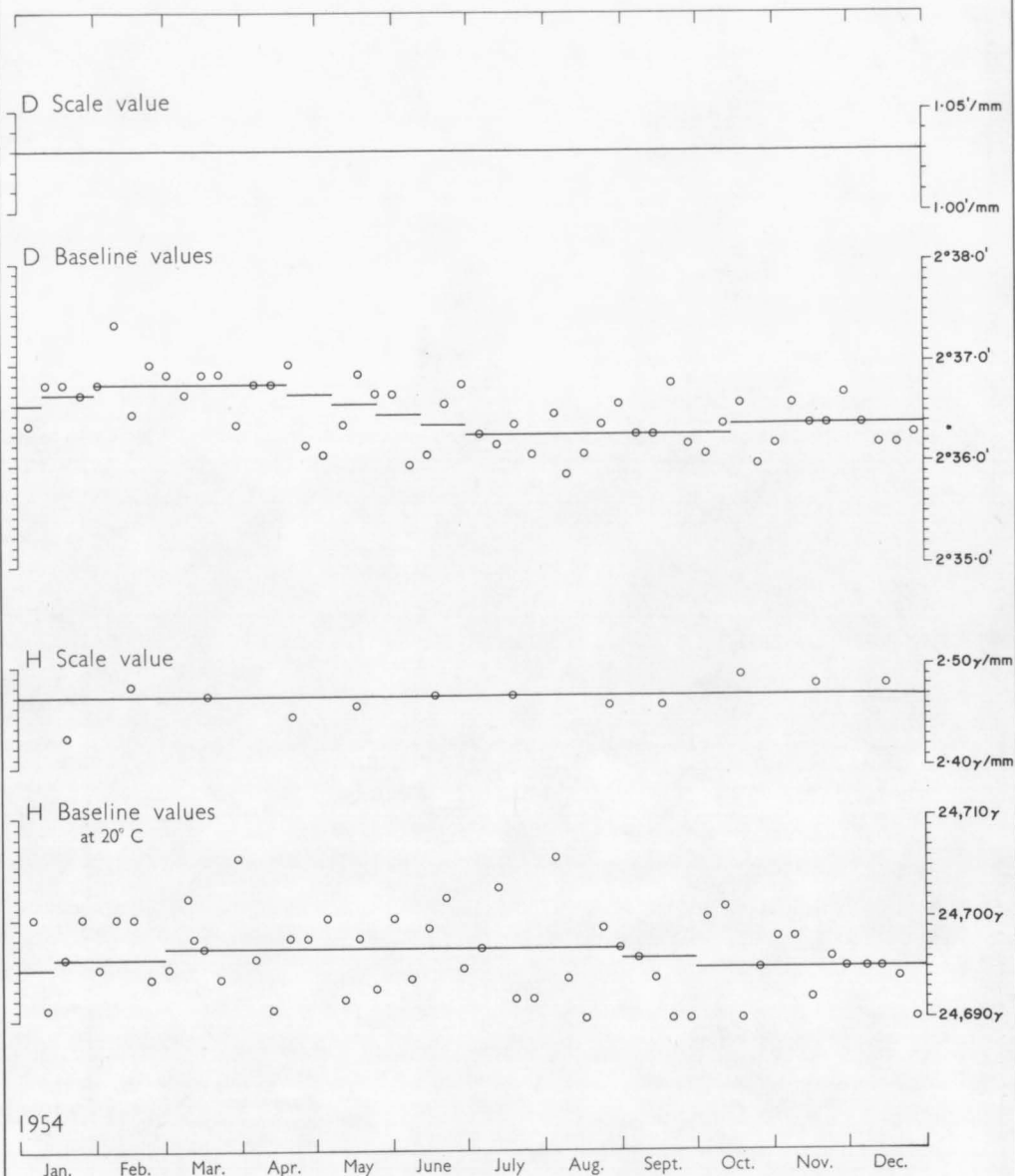
Z Baseline values  
at 20° C

## LEGEND

- Observed value
- Adopted value
- A Adjustment of instrument
- X Unknown
- M Mishap

WATHEROO 1954

FIGURE 2



WATHEROO 1954

FIGURE 2

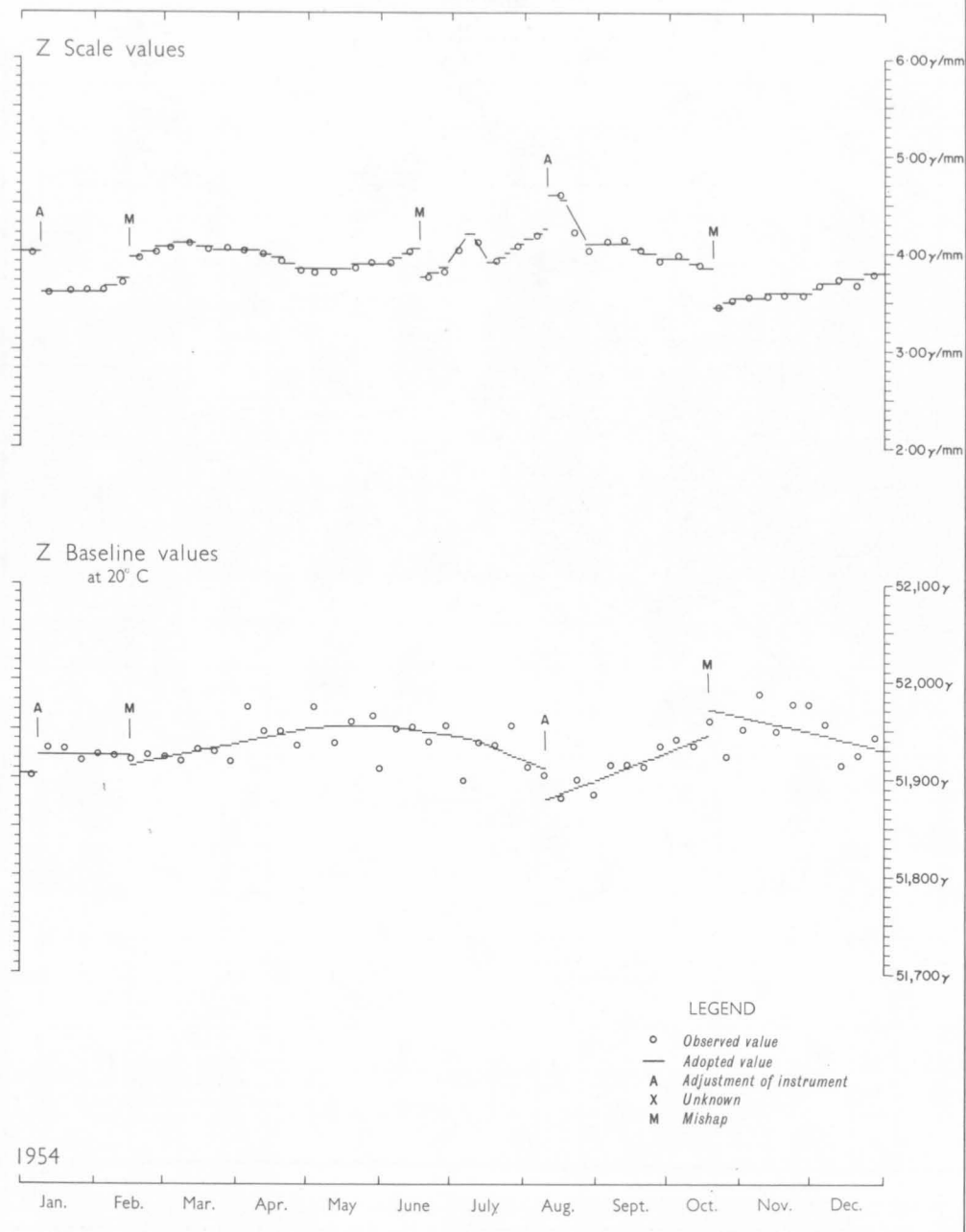
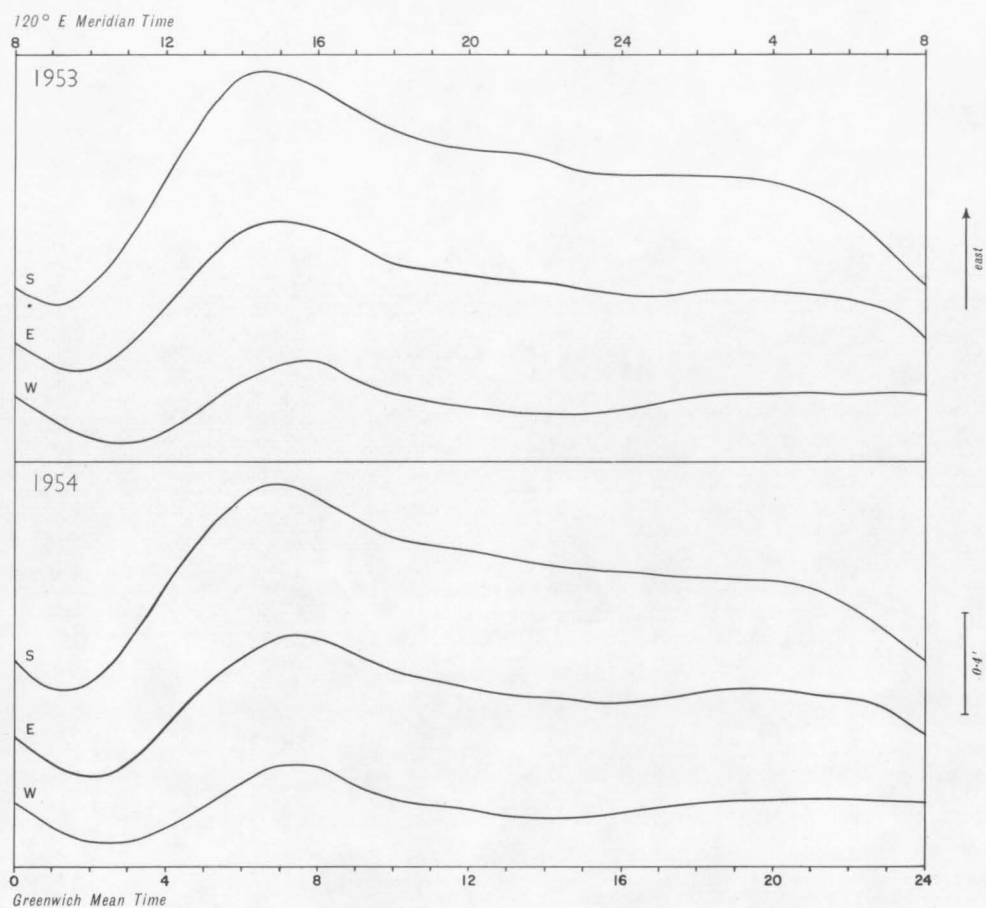


FIGURE 3

# QUIET DAY DIURNAL VARIATION DECLINATION WEST



WATHEROO

## LEGEND

- S Mean of Jan. Feb. Nov. Dec.
- E Mean of Mar. Apr. Sept. Oct.
- W Mean of May June July Aug.

FIGURE 4

QUIET DAY DIURNAL VARIATION  
HORIZONTAL INTENSITY

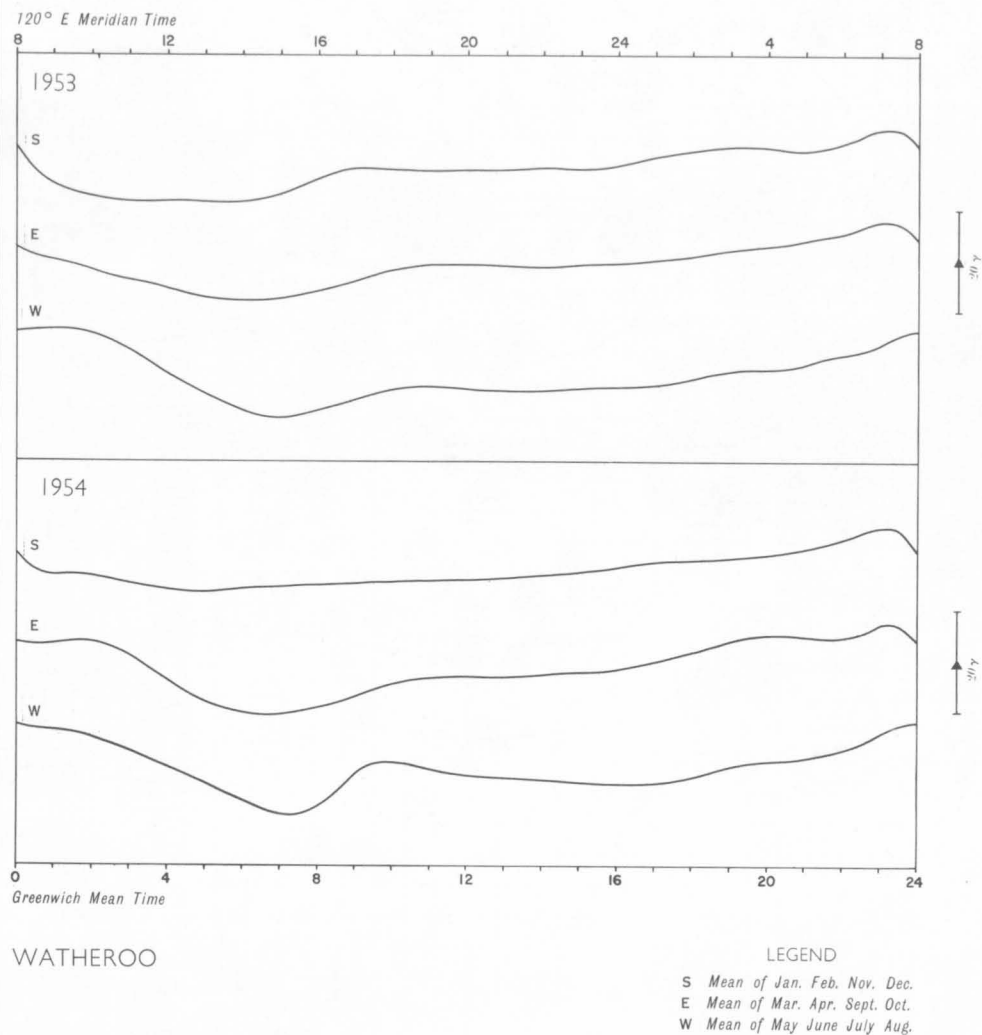




FIGURE 5

