

# 斜视距高差计算用表

国家测绘总局地形八队編算

国家测绘总局技术处审定

中国工业出版社

# 科學圖書集成

卷一百一十五

目錄

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在高程导线测量时，一般要求以仪器的下丝照准标尺顶端读取视距，然后再以中丝照准标尺顶端，读取垂直角，因此测得的视距与垂直角不相应。本表考虑了上述的影响，根据新的高差公式，直接以垂直角和视距为引数而编算的，因此精度较佳，可供大、中、小比例尺测图使用。

### 斜视距高差计算用表

国家测绘总局地形八队编算

国家测绘总局技术处审定

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## 目 录

### 用表說明

|           |     |
|-----------|-----|
| 全絲部分..... | 1   |
| 半絲部分..... | 107 |

### 附 表

|                        |     |
|------------------------|-----|
| 1. 大气折光与地球曲率改正数表.....  | 212 |
| 2. 大气折光与地球曲率改正系数表..... | 220 |

# 全 絲 部 分

0°

| D    | 100   | 200   | 300   | 400  | 500  | 600  | 700  | 800  | 900  |
|------|-------|-------|-------|------|------|------|------|------|------|
| 0.0  | 0.000 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| .5   | 015   | 029   | 044   | 06   | 07   | 09   | 10   | 12   | 13   |
| 1.0  | 029   | 058   | 087   | 12   | 15   | 17   | 20   | 23   | 26   |
| .5   | 044   | 087   | 131   | 17   | 22   | 26   | 31   | 35   | 39   |
| 2.0  | 058   | 116   | 175   | 23   | 29   | 35   | 41   | 47   | 52   |
| .5   | 0.073 | 0.145 | 0.218 | 0.29 | 0.36 | 0.44 | 0.51 | 0.58 | 0.65 |
| 3.0  | 087   | 175   | 262   | 35   | 44   | 52   | 61   | 70   | 79   |
| .5   | 102   | 204   | 305   | 41   | 51   | 61   | 71   | 81   | 92   |
| 4.0  | 116   | 233   | 349   | 47   | 58   | 70   | 81   | 93   | 1.05 |
| .5   | 131   | 262   | 393   | 52   | 65   | 79   | 92   | 1.05 | 1.18 |
| 5.0  | 0.145 | 0.291 | 0.436 | 0.58 | 0.73 | 0.87 | 1.02 | 1.16 | 1.31 |
| .5   | 160   | 320   | 480   | 64   | 80   | 96   | 12   | 28   | 44   |
| 6.0  | 175   | 349   | 524   | 70   | 87   | 1.05 | 22   | 40   | 57   |
| .5   | 189   | 378   | 567   | 76   | 95   | 13   | 32   | 51   | 70   |
| 7.0  | 204   | 407   | 611   | 81   | 1.02 | 22   | 43   | 63   | 83   |
| .5   | 0.218 | 0.436 | 0.654 | 0.87 | 1.09 | 1.31 | 1.53 | 1.75 | 1.96 |
| 8.0  | 233   | 465   | 698   | 93   | 16   | 40   | 63   | 86   | 2.09 |
| .5   | 247   | 495   | 742   | 99   | 24   | 48   | 73   | 98   | 23   |
| 9.0  | 262   | 524   | 785   | 1.05 | 31   | 57   | 83   | 2.09 | 36   |
| .5   | 276   | 553   | 829   | 11   | 38   | 66   | 93   | 21   | 49   |
| 10.0 | 0.291 | 0.582 | 0.873 | 1.16 | 1.45 | 1.75 | 2.04 | 2.33 | 2.62 |
| .5   | 305   | 611   | 916   | 22   | 53   | 83   | 14   | 44   | 75   |
| 11.0 | 320   | 640   | 960   | 28   | 60   | 92   | 24   | 56   | 88   |
| .5   | 335   | 669   | 1.004 | 34   | 67   | 2.01 | 34   | 68   | 3.01 |
| 12.0 | 349   | 698   | 047   | 40   | 75   | 09   | 44   | 79   | 14   |
| .5   | 0.364 | 0.727 | 1.091 | 1.45 | 1.82 | 2.18 | 2.55 | 2.91 | 3.27 |
| 13.0 | 378   | 756   | 134   | 51   | 89   | 27   | 65   | 3.03 | 40   |
| .5   | 393   | 785   | 178   | 57   | 96   | 36   | 75   | 14   | 53   |
| 14.0 | 407   | 814   | 222   | 63   | 2.04 | 44   | 85   | 26   | 67   |
| .5   | 422   | 844   | 265   | 69   | 11   | 53   | 95   | 37   | 80   |
| 15.0 | 0.436 | 0.873 | 1.309 | 1.75 | 2.18 | 2.62 | 3.05 | 3.49 | 3.93 |

## 負角改正数

| D   | 00'   | 10'   | 20'   |
|-----|-------|-------|-------|
| 100 | 0.000 | 0.000 | 0.000 |
| 200 | 0.000 | 0.000 | 0.000 |
| 300 | 0.000 | 0.000 | 0.000 |
| 400 | 0.00  | 0.00  | 0.00  |
| 500 | 0.00  | 0.00  | 0.00  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

0°

| D    | 100   | 200   | 300   | 400  | 500  | 600  | 700  | 800  | 900  |
|------|-------|-------|-------|------|------|------|------|------|------|
| 15.0 | 0.436 | 0.873 | 1.309 | 1.75 | 2.18 | 2.62 | 3.05 | 3.49 | 3.93 |
| .5   | 451   | 902   | 353   | 80   | 25   | 71   | 16   | 61   | 4.06 |
| 16.0 | 465   | 931   | 396   | 86   | 33   | 79   | 26   | 72   | 19   |
| .5   | 480   | 969   | 440   | 92   | 40   | 88   | 36   | 84   | 32   |
| 17.0 | 495   | 989   | 484   | 98   | 47   | 97   | 46   | 96   | 45   |
| .5   | 0.509 | 1.018 | 1.527 | 2.04 | 2.55 | 3.05 | 3.56 | 4.07 | 4.58 |
| 18.0 | 524   | 047   | 571   | 09   | 62   | 14   | 67   | 19   | 71   |
| .5   | 538   | 076   | 614   | 15   | 69   | 23   | 77   | 31   | 84   |
| 19.0 | 553   | 105   | 658   | 21   | 76   | 32   | 87   | 42   | 97   |
| .5   | 567   | 134   | 702   | 27   | 84   | 40   | 97   | 54   | 5.11 |
| 20.0 | 0.582 | 1.164 | 1.745 | 2.33 | 2.91 | 3.49 | 4.07 | 4.65 | 5.24 |
| .5   | 596   | 193   | 789   | 39   | 98   | 58   | 17   | 77   | 37   |
| 21.0 | 611   | 222   | 833   | 44   | 3.05 | 67   | 38   | 89   | 50   |
| .5   | 625   | 251   | 876   | 50   | 13   | 75   | 38   | 5.00 | 63   |
| 22.0 | 640   | 280   | 920   | 56   | 20   | 84   | 48   | 12   | 76   |
| .5   | 0.655 | 1.309 | 1.964 | 2.62 | 3.27 | 3.93 | 4.58 | 5.24 | 5.89 |
| 23.0 | 669   | 338   | 2.007 | 68   | 35   | 4.01 | 68   | 35   | 6.02 |
| .5   | 684   | 367   | 051   | 73   | 42   | 10   | 79   | 47   | 15   |
| 24.0 | 698   | 396   | 094   | 79   | 49   | 19   | 89   | 59   | 28   |
| .5   | 713   | 425   | 138   | 85   | 56   | 28   | 99   | 70   | 41   |
| 25.0 | 0.727 | 1.454 | 2.182 | 2.91 | 3.64 | 4.36 | 5.09 | 5.82 | 6.55 |
| .5   | 742   | 484   | 225   | 97   | 71   | 45   | 19   | 93   | 68   |
| 26.0 | 756   | 513   | 269   | 3.03 | 78   | 54   | 29   | 6.05 | 81   |
| .5   | 771   | 542   | 313   | 08   | 85   | 63   | 40   | 17   | 94   |
| 27.0 | 785   | 571   | 356   | 14   | 93   | 71   | 50   | 28   | 7.07 |
| .5   | 0.800 | 1.600 | 2.400 | 3.20 | 4.00 | 4.80 | 5.60 | 6.40 | 7.20 |
| 28.0 | 814   | 629   | 443   | 26   | 07   | 89   | 70   | 52   | 33   |
| .5   | 829   | 658   | 487   | 32   | 15   | 97   | 80   | 63   | 46   |
| 29.0 | 844   | 687   | 531   | 37   | 22   | 5.06 | 91   | 75   | 59   |
| .5   | 858   | 716   | 574   | 43   | 29   | 15   | 6.01 | 86   | 72   |
| 30.0 | 0.873 | 1.745 | 2.618 | 3.49 | 4.36 | 5.24 | 6.11 | 6.98 | 7.85 |

## 負角改正数

| D   | 10'   | 20'   | 30'   |
|-----|-------|-------|-------|
| 100 | 0.000 | 0.000 | 0.000 |
| 200 | 0.000 | 0.000 | 0.000 |
| 300 | 0.000 | 0.000 | 0.000 |
| 400 | 0.00  | 0.00  | 0.00  |
| 500 | 0.00  | 0.00  | 0.00  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

0°

| D    | 100   | 200   | 300   | 400  | 500  | 600  | 700  | 800   | 900   |
|------|-------|-------|-------|------|------|------|------|-------|-------|
| 30.0 | 0.873 | 1.745 | 2.618 | 3.49 | 4.36 | 5.24 | 6.11 | 6.98  | 7.85  |
| .5   | 887   | 774   | 662   | 55   | 44   | 32   | 21   | 7.10  | 98    |
| 31.0 | 902   | 804   | 705   | 61   | 51   | 41   | 31   | 21    | 8.12  |
| .5   | 916   | 833   | 749   | 66   | 58   | 50   | 41   | 33    | 25    |
| 32.0 | 931   | 862   | 793   | 72   | 65   | 59   | 52   | 45    | 38    |
| .5   | 0.945 | 1.891 | 2.836 | 3.78 | 4.73 | 5.67 | 6.62 | 7.56  | 8.51  |
| 33.0 | 960   | 920   | 880   | 84   | 80   | 76   | 72   | 68    | 64    |
| .5   | 974   | 949   | 923   | 90   | 87   | 85   | 82   | 80    | 77    |
| 34.0 | 989   | 978   | 967   | 96   | 95   | 93   | 92   | 91    | 90    |
| .5   | 1.004 | 2.007 | 3.011 | 4.01 | 5.02 | 6.02 | 7.02 | 8.03  | 9.03  |
| 35.0 | 1.018 | 2.036 | 3.054 | 4.07 | 5.09 | 6.11 | 7.13 | 8.14  | 9.16  |
| .5   | 033   | 065   | 093   | 13   | 16   | 20   | 23   | 26    | 29    |
| 36.0 | 047   | 094   | 142   | 19   | 24   | 28   | 33   | 38    | 42    |
| .5   | 062   | 123   | 185   | 25   | 31   | 37   | 43   | 49    | 56    |
| 37.0 | 076   | 153   | 229   | 31   | 38   | 46   | 53   | 61    | 69    |
| .5   | 1.091 | 2.182 | 3.272 | 4.36 | 5.45 | 6.54 | 7.64 | 8.73  | 9.82  |
| 38.0 | 105   | 211   | 316   | 42   | 53   | 63   | 74   | 84    | 95    |
| .5   | 120   | 240   | 360   | 48   | 60   | 72   | 84   | 96    | 10.08 |
| 39.0 | 134   | 269   | 403   | 54   | 67   | 81   | 94   | 9.08  | 21    |
| .5   | 149   | 298   | 447   | 60   | 74   | 89   | 8.04 | 19    | 34    |
| 40.0 | 1.164 | 2.327 | 3.491 | 4.65 | 5.82 | 6.98 | 8.14 | 9.31  | 10.47 |
| .5   | 178   | 356   | 534   | 71   | 89   | 7.07 | 25   | 42    | 60    |
| 41.0 | 193   | 385   | 578   | 77   | 96   | 16   | 35   | 54    | 73    |
| .5   | 207   | 414   | 622   | 83   | 6.04 | 24   | 45   | 66    | 86    |
| 42.0 | 222   | 443   | 665   | 89   | 11   | 33   | 55   | 77    | 11.00 |
| .5   | 1.236 | 2.473 | 3.709 | 4.94 | 6.18 | 7.42 | 8.65 | 9.89  | 11.13 |
| 43.0 | 251   | 502   | 752   | 5.00 | 25   | 50   | 76   | 10.01 | 26    |
| .5   | 265   | 531   | 796   | 06   | 33   | 59   | 86   | 12    | 39    |
| 44.0 | 280   | 560   | 840   | 12   | 40   | 68   | 96   | 24    | 52    |
| .5   | 294   | 589   | 883   | 18   | 47   | 77   | 9.06 | 36    | 65    |
| 45.0 | 1.309 | 2.618 | 3.927 | 5.24 | 6.54 | 7.85 | 9.16 | 10.47 | 11.78 |

## 負角改正数

| D   | 30'   | 40'   | 50'   |
|-----|-------|-------|-------|
| 100 | 0.000 | 0.000 | 0.000 |
| 200 | 0.000 | 0.000 | 0.001 |
| 300 | 0.000 | 0.001 | 0.001 |
| 400 | 0.00  | 0.00  | 0.00  |
| 500 | 0.00  | 0.00  | 0.00  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

0°

| D    | 100   | 200   | 300   | 400  | 500  | 600   | 700   | 800   | 900   |
|------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 45.0 | 1.309 | 2.618 | 3.927 | 5.24 | 6.54 | 7.85  | 9.16  | 10.47 | 11.78 |
| .5   | 324   | 647   | 971   | 29   | 62   | 94    | 26    | 59    | 91    |
| 46.0 | 338   | 676   | 4.014 | 35   | 69   | 8.03  | 37    | 70    | 12.04 |
| .5   | 353   | 705   | 058   | 41   | 76   | 12    | 47    | 82    | 17    |
| 47.0 | 367   | 734   | 101   | 47   | 84   | 20    | 57    | 94    | 30    |
| .5   | 1.382 | 2.763 | 4.145 | 5.53 | 6.91 | 8.29  | 9.67  | 11.05 | 12.44 |
| 48.0 | 396   | 792   | 189   | 58   | 98   | 38    | 77    | 17    | 57    |
| .5   | 411   | 822   | 232   | 64   | 7.05 | 46    | 88    | 29    | 70    |
| 49.0 | 425   | 851   | 276   | 70   | 13   | 55    | 98    | 40    | 83    |
| .5   | 440   | 880   | 320   | 76   | 20   | 64    | 10.08 | 52    | 96    |
| 50.0 | 1.454 | 2.909 | 4.363 | 5.82 | 7.27 | 8.73  | 10.18 | 11.64 | 13.09 |
| .5   | 469   | 938   | 407   | 88   | 34   | 81    | 28    | 75    | 22    |
| 51.0 | 483   | 967   | 450   | 93   | 42   | 90    | 38    | 87    | 35    |
| .5   | 498   | 996   | 494   | 99   | 49   | 99    | 49    | 98    | 48    |
| 52.0 | 513   | 3.025 | 538   | 6.05 | 56   | 9.08  | 59    | 12.10 | 61    |
| .5   | 1.527 | 3.054 | 4.581 | 6.11 | 7.64 | 9.16  | 10.69 | 12.22 | 13.74 |
| 53.0 | 542   | 083   | 625   | 17   | 71   | 25    | 79    | 33    | 87    |
| .5   | 556   | 112   | 669   | 22   | 78   | 34    | 89    | 45    | 14.01 |
| 54.0 | 571   | 141   | 712   | 28   | 85   | 42    | 11.00 | 57    | 14    |
| .5   | 585   | 171   | 756   | 34   | 93   | 51    | 10    | 68    | 27    |
| 55.0 | 1.600 | 3.200 | 4.799 | 6.40 | 8.00 | 9.60  | 11.20 | 12.80 | 14.40 |
| .5   | 614   | 229   | 843   | 46   | 07   | 69    | 30    | 91    | 53    |
| 56.0 | 629   | 258   | 887   | 52   | 14   | 77    | 40    | 13.03 | 66    |
| .5   | 643   | 287   | 930   | 57   | 22   | 86    | 50    | 15    | 79    |
| 57.0 | 658   | 316   | 974   | 63   | 29   | 95    | 61    | 26    | 92    |
| .5   | 1.673 | 3.345 | 5.018 | 6.69 | 8.36 | 10.04 | 11.71 | 13.38 | 15.05 |
| 58.0 | 687   | 374   | 061   | 75   | 44   | 12    | 81    | 50    | 18    |
| .5   | 702   | 403   | 105   | 81   | 51   | 21    | 91    | 61    | 31    |
| 59.0 | 716   | 432   | 148   | 86   | 58   | 30    | 12.01 | 73    | 45    |
| .5   | 731   | 461   | 192   | 92   | 65   | 38    | 11    | 85    | 58    |
| 60.0 | 1.745 | 3.490 | 5.236 | 6.98 | 8.73 | 10.47 | 12.22 | 13.96 | 15.71 |

## 負角改正数

| D   | 40'   | 50'   |
|-----|-------|-------|
| 100 | 0.000 | 0.000 |
| 200 | 0.001 | 0.001 |
| 300 | 0.001 | 0.001 |
| 400 | 0.00  | 0.00  |
| 500 | 0.00  | 0.00  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

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| D    | 100   | 200   | 300   | 400  | 500   | 600   | 700   | 800   | 900   |
|------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 0.0  | 1.745 | 3.490 | 5.236 | 6.98 | 8.73  | 10.47 | 12.22 | 13.96 | 15.71 |
| .5   | 760   | 520   | 279   | 7.04 | 80    | 56    | 32    | 14.08 | 84    |
| 1.0  | 774   | 549   | 323   | 10   | 87    | 65    | 42    | 19    | 97    |
| .5   | 789   | 578   | 367   | 16   | 94    | 73    | 52    | 31    | 16.10 |
| 2.0  | 803   | 607   | 410   | 21   | 9.02  | 82    | 62    | 42    | 23    |
| .5   | 1.818 | 3.636 | 5.454 | 7.27 | 9.09  | 10.91 | 12.73 | 14.54 | 16.36 |
| 3.0  | 832   | 665   | 497   | 33   | 16    | 99    | 83    | 66    | 49    |
| .5   | 847   | 694   | 541   | 39   | 24    | 11.08 | 93    | 78    | 62    |
| 4.0  | 862   | 723   | 585   | 45   | 31    | 17    | 13.03 | 89    | 75    |
| .5   | 876   | 752   | 628   | 50   | 38    | 26    | 13    | 15.01 | 88    |
| 5.0  | 1.891 | 3.781 | 5.672 | 7.56 | 9.45  | 11.34 | 13.23 | 15.12 | 17.02 |
| .5   | 905   | 810   | 716   | 62   | 53    | 43    | 34    | 24    | 15    |
| 6.0  | 920   | 839   | 759   | 68   | 60    | 52    | 44    | 36    | 28    |
| .5   | 934   | 868   | 803   | 74   | 67    | 61    | 54    | 47    | 41    |
| 7.0  | 949   | 898   | 846   | 80   | 74    | 69    | 64    | 59    | 54    |
| .5   | 1.963 | 3.927 | 5.890 | 7.85 | 9.82  | 11.78 | 13.74 | 15.71 | 17.67 |
| 8.0  | 978   | 956   | 934   | 91   | 89    | 87    | 84    | 82    | 80    |
| .5   | 992   | 985   | 977   | 97   | 96    | 95    | 95    | 94    | 93    |
| 9.0  | 2.007 | 4.014 | 6.021 | 8.03 | 10.03 | 12.04 | 14.05 | 16.06 | 18.06 |
| .5   | 021   | 043   | 064   | 09   | 11    | 13    | 15    | 17    | 19    |
| 10.0 | 2.036 | 4.072 | 6.108 | 8.14 | 10.18 | 12.22 | 14.25 | 16.29 | 18.32 |
| .5   | 051   | 101   | 152   | 20   | 25    | 30    | 35    | 40    | 46    |
| 11.0 | 065   | 130   | 195   | 26   | 33    | 39    | 46    | 52    | 59    |
| .5   | 080   | 159   | 239   | 32   | 40    | 48    | 56    | 64    | 72    |
| 12.0 | 094   | 188   | 282   | 38   | 47    | 56    | 66    | 75    | 85    |
| .5   | 2.109 | 4.217 | 6.326 | 8.43 | 10.54 | 12.65 | 14.76 | 16.87 | 18.98 |
| 13.0 | 123   | 246   | 370   | 49   | 62    | 74    | 86    | 99    | 19.11 |
| .5   | 138   | 276   | 413   | 55   | 69    | 83    | 96    | 17.10 | 24    |
| 14.0 | 152   | 305   | 457   | 61   | 76    | 91    | 15.07 | 22    | 37    |
| .5   | 167   | 334   | 501   | 67   | 83    | 13.00 | 17    | 33    | 50    |
| 15.0 | 2.181 | 4.363 | 6.544 | 8.73 | 10.91 | 13.09 | 15.27 | 17.45 | 19.63 |

## 負角改正数

| D   | 00'   | 10'   | 20'   |
|-----|-------|-------|-------|
| 100 | 0.001 | 0.001 | 0.001 |
| 200 | 0.001 | 0.002 | 0.002 |
| 300 | 0.002 | 0.002 | 0.003 |
| 400 | 0.00  | 0.00  | 0.00  |
| 500 | 0.00  | 0.00  | 0.00  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

1°

| D    | 100   | 200   | 300   | 400   | 500   | 600   | 700   | 800   | 900   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 15.0 | 2.181 | 4.363 | 6.544 | 8.73  | 10.91 | 13.09 | 15.27 | 17.45 | 19.63 |
| .5   | 196   | 392   | 588   | 78    | 98    | 18    | 37    | 57    | 76    |
| 16.0 | 210   | 421   | 631   | 84    | 11.05 | 26    | 47    | 68    | 89    |
| .5   | 225   | 450   | 675   | 90    | 12    | 35    | 57    | 80    | 20.02 |
| 17.0 | 240   | 479   | 719   | 96    | 20    | 44    | 68    | 92    | 16    |
| .5   | 2.254 | 4.508 | 6.762 | 9.02  | 11.27 | 13.52 | 15.78 | 18.03 | 20.29 |
| 18.0 | 269   | 537   | 806   | 07    | 34    | 61    | 88    | 15    | 42    |
| .5   | 283   | 566   | 849   | 13    | 41    | 70    | 98    | 27    | 55    |
| 19.0 | 298   | 595   | 893   | 19    | 49    | 79    | 16.08 | 38    | 68    |
| .5   | 312   | 624   | 937   | 25    | 56    | 87    | 19    | 50    | 81    |
| 20.0 | 2.327 | 4.653 | 6.980 | 9.31  | 11.63 | 13.96 | 16.29 | 18.61 | 20.94 |
| .5   | 341   | 683   | 7.024 | 36    | 71    | 14.05 | 39    | 73    | 21.07 |
| 21.0 | 356   | 712   | 067   | 42    | 78    | 13    | 49    | 85    | 20    |
| .5   | 370   | 741   | 111   | 48    | 85    | 22    | 59    | 96    | 33    |
| 22.0 | 385   | 770   | 155   | 54    | 92    | 31    | 69    | 19.08 | 46    |
| .5   | 2.399 | 4.799 | 7.198 | 9.60  | 12.00 | 14.40 | 16.80 | 19.20 | 21.59 |
| 23.0 | 414   | 828   | 242   | 66    | 07    | 48    | 90    | 31    | 73    |
| .5   | 428   | 857   | 285   | 71    | 14    | 57    | 17.00 | 43    | 86    |
| 24.0 | 443   | 886   | 329   | 77    | 22    | 66    | 10    | 54    | 99    |
| .5   | 458   | 915   | 373   | 83    | 29    | 75    | 20    | 66    | 22.12 |
| 25.0 | 2.472 | 4.944 | 7.416 | 9.89  | 12.36 | 14.83 | 17.30 | 19.78 | 22.25 |
| .5   | 487   | 973   | 460   | 95    | 43    | 92    | 41    | 89    | 38    |
| 26.0 | 501   | 5.002 | 503   | 10.00 | 51    | 15.01 | 51    | 20.01 | 51    |
| .5   | 516   | 031   | 547   | 06    | 58    | 09    | 61    | 13    | 64    |
| 27.0 | 530   | 060   | 591   | 12    | 65    | 18    | 71    | 24    | 77    |
| .5   | 2.545 | 5.089 | 7.634 | 10.18 | 12.72 | 15.27 | 17.81 | 20.36 | 22.90 |
| 28.0 | 559   | 119   | 678   | 24    | 80    | 36    | 91    | 47    | 23.03 |
| .5   | 574   | 148   | 721   | 30    | 87    | 44    | 18.02 | 59    | 16    |
| 29.0 | 588   | 177   | 765   | 35    | 94    | 53    | 12    | 71    | 30    |
| .5   | 603   | 206   | 809   | 41    | 13.01 | 62    | 22    | 82    | 43    |
| 30.0 | 2.617 | 5.235 | 7.852 | 10.47 | 13.09 | 15.70 | 18.32 | 20.94 | 23.56 |

## 負角改正数

| D   | 10'   | 20'   | 30'   |
|-----|-------|-------|-------|
| 100 | 0.001 | 0.001 | 0.001 |
| 200 | 0.002 | 0.002 | 0.003 |
| 300 | 0.002 | 0.003 | 0.004 |
| 400 | 0.00  | 0.00  | 0.00  |
| 500 | 0.00  | 0.00  | 0.01  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

1°

| D    | 100   | 200   | 300   | 400   | 500   | 600   | 700   | 800   | 900   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30.0 | 2.617 | 5.235 | 7.852 | 10.47 | 13.09 | 15.70 | 18.32 | 20.94 | 23.56 |
| .5   | 632   | 264   | 896   | 53    | 16    | 79    | 42    | 21.06 | 69    |
| 31.0 | 646   | 293   | 939   | 59    | 23    | 88    | 53    | 17    | 82    |
| .5   | 661   | 322   | 983   | 64    | 30    | 97    | 63    | 29    | 95    |
| 32.0 | 676   | 351   | 8.027 | 70    | 38    | 16.05 | 73    | 40    | 24.08 |
| .5   | 2.690 | 5.380 | 8.070 | 10.76 | 13.45 | 16.14 | 18.83 | 21.52 | 24.21 |
| 33.0 | 705   | 409   | 114   | 82    | 52    | 23    | 93    | 64    | 34    |
| .5   | 719   | 438   | 157   | 88    | 60    | 31    | 19.03 | 75    | 47    |
| 34.0 | 734   | 467   | 201   | 93    | 67    | 40    | 14    | 87    | 60    |
| .5   | 748   | 496   | 245   | 99    | 74    | 49    | 24    | 99    | 73    |
| 35.0 | 2.763 | 5.525 | 8.288 | 11.05 | 13.81 | 16.58 | 19.34 | 22.10 | 24.86 |
| .5   | 777   | 554   | 332   | 11    | 89    | 66    | 44    | 22    | 25.00 |
| 36.0 | 792   | 584   | 375   | 17    | 96    | 75    | 54    | 33    | 13    |
| .5   | 806   | 613   | 419   | 23    | 14.03 | 84    | 64    | 45    | 26    |
| 37.0 | 821   | 642   | 462   | 28    | 10    | 92    | 75    | 57    | 39    |
| .5   | 2.835 | 5.671 | 8.506 | 11.34 | 14.18 | 17.01 | 19.85 | 22.68 | 25.52 |
| 38.0 | 850   | 700   | 550   | 40    | 25    | 10    | 95    | 80    | 65    |
| .5   | 864   | 729   | 593   | 46    | 32    | 19    | 20.05 | 92    | 78    |
| 39.0 | 879   | 758   | 637   | 52    | 39    | 27    | 15    | 23.03 | 91    |
| .5   | 893   | 787   | 680   | 57    | 47    | 36    | 25    | 15    | 26.04 |
| 40.0 | 2.908 | 5.816 | 8.724 | 11.63 | 14.54 | 17.45 | 20.36 | 23.26 | 26.17 |
| .5   | 923   | 845   | 768   | 69    | 61    | 54    | 46    | 38    | 30    |
| 41.0 | 937   | 874   | 811   | 75    | 69    | 62    | 56    | 50    | 43    |
| .5   | 952   | 903   | 855   | 81    | 76    | 71    | 66    | 61    | 56    |
| 42.0 | 966   | 932   | 898   | 86    | 83    | 80    | 76    | 73    | 70    |
| .5   | 2.981 | 5.961 | 8.942 | 11.92 | 14.90 | 17.88 | 20.86 | 23.85 | 26.83 |
| 43.0 | 995   | 990   | 986   | 98    | 98    | 97    | 97    | 96    | 96    |
| .5   | 3.010 | 6.019 | 9.029 | 12.04 | 15.05 | 18.06 | 21.07 | 24.08 | 27.09 |
| 44.0 | 024   | 048   | 073   | 10    | 12    | 15    | 17    | 19    | 22    |
| .5   | 039   | 078   | 116   | 16    | 19    | 23    | 27    | 31    | 35    |
| 45.0 | 3.053 | 6.107 | 9.160 | 12.21 | 15.27 | 18.32 | 21.37 | 24.43 | 27.48 |

## 負角改正数

| D   | 30'   | 40'   | 50'   |
|-----|-------|-------|-------|
| 100 | 0.001 | 0.002 | 0.002 |
| 200 | 0.003 | 0.003 | 0.004 |
| 300 | 0.004 | 0.005 | 0.006 |
| 400 | 0.00  | 0.01  | 0.01  |
| 500 | 0.01  | 0.01  | 0.01  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.02  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

1°

| D \ ' / | 100   | 200   | 300    | 400   | 500   | 600   | 700   | 800   | 900   |
|---------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 45.0    | 3.053 | 6.107 | 9.160  | 12.21 | 15.27 | 18.32 | 21.37 | 24.43 | 27.48 |
| .5      | 068   | 136   | 203    | 27    | 34    | 41    | 47    | 54    | 61    |
| 46.0    | 082   | 165   | 247    | 33    | 41    | 49    | 58    | 66    | 74    |
| .5      | 097   | 194   | 291    | 39    | 48    | 58    | 68    | 77    | 87    |
| 47.0    | 111   | 223   | 334    | 45    | 56    | 67    | 78    | 89    | 28.00 |
| .5      | 3.126 | 6.252 | 9.378  | 12.50 | 15.63 | 18.76 | 21.88 | 25.01 | 28.13 |
| 48.0    | 140   | 281   | 421    | 56    | 70    | 84    | 98    | 12    | 26    |
| .5      | 155   | 310   | 465    | 62    | 77    | 93    | 22.08 | 24    | 39    |
| 49.0    | 169   | 339   | 508    | 68    | 85    | 19.02 | 19    | 36    | 53    |
| .5      | 184   | 368   | 552    | 74    | 92    | 10    | 29    | 47    | 66    |
| 50.0    | 3.199 | 6.397 | 9.596  | 12.79 | 15.99 | 19.19 | 22.39 | 25.59 | 28.79 |
| .5      | 213   | 426   | 639    | 85    | 16.07 | 28    | 49    | 70    | 92    |
| 51.0    | 228   | 455   | 683    | 91    | 14    | 37    | 59    | 82    | 29.05 |
| .5      | 242   | 484   | 726    | 97    | 21    | 45    | 69    | 94    | 18    |
| 52.0    | 257   | 513   | 770    | 13.03 | 28    | 54    | 80    | 26.05 | 31    |
| .5      | 3.271 | 6.542 | 9.813  | 13.08 | 16.36 | 19.63 | 22.90 | 26.17 | 29.44 |
| 53.0    | 286   | 571   | 857    | 14    | 43    | 71    | 23.00 | 29    | 57    |
| .5      | 300   | 600   | 901    | 20    | 50    | 80    | 10    | 40    | 70    |
| 54.0    | 315   | 629   | 944    | 26    | 57    | 89    | 20    | 52    | 83    |
| .5      | 329   | 658   | 988    | 32    | 65    | 98    | 30    | 63    | 96    |
| 55.0    | 3.344 | 6.687 | 10.031 | 13.37 | 16.72 | 20.06 | 23.41 | 26.75 | 30.09 |
| .5      | 358   | 717   | 075    | 43    | 79    | 15    | 51    | 87    | 22    |
| 56.0    | 373   | 746   | 118    | 49    | 86    | 24    | 61    | 98    | 36    |
| .5      | 387   | 775   | 162    | 55    | 94    | 32    | 71    | 27.10 | 49    |
| 57.0    | 402   | 804   | 205    | 61    | 17.01 | 41    | 81    | 21    | 62    |
| .5      | 3.416 | 6.833 | 10.249 | 13.67 | 17.08 | 20.50 | 23.91 | 27.33 | 30.75 |
| 58.0    | 431   | 862   | 292    | 72    | 15    | 59    | 24.02 | 45    | 88    |
| .5      | 445   | 891   | 336    | 78    | 23    | 67    | 12    | 56    | 31.01 |
| 59.0    | 460   | 920   | 380    | 84    | 30    | 76    | 22    | 68    | 14    |
| .5      | 474   | 949   | 423    | 90    | 37    | 85    | 32    | 80    | 27    |
| 60.0    | 3.489 | 6.978 | 10.467 | 13.96 | 17.44 | 20.93 | 24.42 | 27.91 | 31.40 |

## 負角改正数

| D \ ' / | 40'   | 50'   |
|---------|-------|-------|
| 100     | 0.002 | 0.002 |
| 200     | 0.003 | 0.004 |
| 300     | 0.005 | 0.006 |
| 400     | 0.01  | 0.01  |
| 500     | 0.01  | 0.01  |

## 秒差改正数

| D \ ' / | 0'.1  | 0'.2  |
|---------|-------|-------|
| 100     | 0.003 | 0.006 |
| 200     | 0.006 | 0.012 |
| 300     | 0.009 | 0.017 |
| 400     | 0.01  | 0.02  |
| 500     | 0.02  | 0.03  |
| 600     | 0.02  | 0.04  |
| 700     | 0.02  | 0.04  |
| 800     | 0.02  | 0.05  |
| 900     | 0.03  | 0.05  |

| D \ ' / | 0'.3  | 0'.4  |
|---------|-------|-------|
| 100     | 0.009 | 0.012 |
| 200     | 0.017 | 0.023 |
| 300     | 0.026 | 0.035 |
| 400     | 0.04  | 0.05  |
| 500     | 0.04  | 0.06  |
| 600     | 0.05  | 0.07  |
| 700     | 0.06  | 0.08  |
| 800     | 0.07  | 0.09  |
| 900     | 0.08  | 0.10  |

2°

| D    | 100   | 200   | 300    | 400   | 500   | 600   | 700   | 800   | 900   |
|------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 0.0  | 3.489 | 6.978 | 10.467 | 13.96 | 17.44 | 20.93 | 24.42 | 27.91 | 31.40 |
| .5   | 503   | 7.007 | 510    | 14.01 | 52    | 21.02 | 52    | 28.03 | 53    |
| 1.0  | 518   | 036   | 554    | 07    | 59    | 11    | 63    | 14    | 66    |
| .5   | 532   | 065   | 597    | 13    | 66    | 19    | 73    | 26    | 79    |
| 2.0  | 547   | 094   | 641    | 19    | 74    | 28    | 83    | 38    | 92    |
| .5   | 3.562 | 7.123 | 10.685 | 14.25 | 17.81 | 21.37 | 24.93 | 28.49 | 32.05 |
| 3.0  | 576   | 152   | 728    | 30    | 88    | 46    | 25.03 | 61    | 18    |
| .5   | 591   | 181   | 772    | 36    | 95    | 54    | 13    | 72    | 32    |
| 4.0  | 605   | 210   | 815    | 42    | 18.03 | 63    | 24    | 84    | 45    |
| .5   | 620   | 239   | 859    | 48    | 10    | 72    | 34    | 96    | 58    |
| 5.0  | 3.634 | 7.268 | 10.902 | 14.54 | 18.17 | 21.80 | 25.44 | 29.07 | 32.71 |
| .5   | 649   | 297   | 946    | 59    | 24    | 89    | 54    | 19    | 84    |
| 6.0  | 663   | 326   | 989    | 65    | 32    | 98    | 64    | 30    | 97    |
| .5   | 678   | 355   | 11.033 | 71    | 39    | 22.07 | 74    | 42    | 33.10 |
| 7.0  | 692   | 384   | 077    | 77    | 46    | 15    | 85    | 54    | 23    |
| .5   | 3.707 | 7.413 | 11.120 | 14.83 | 18.53 | 22.24 | 25.95 | 29.65 | 33.36 |
| 8.0  | 721   | 442   | 164    | 89    | 61    | 33    | 26.05 | 77    | 49    |
| .5   | 736   | 471   | 207    | 94    | 68    | 41    | 15    | 89    | 62    |
| 9.0  | 750   | 500   | 251    | 15.00 | 75    | 50    | 25    | 30.00 | 75    |
| .5   | 765   | 529   | 294    | 06    | 82    | 59    | 35    | 12    | 88    |
| 10.0 | 3.779 | 7.559 | 11.338 | 15.12 | 18.90 | 22.68 | 26.45 | 30.23 | 34.01 |
| .5   | 794   | 588   | 381    | 18    | 97    | 76    | 56    | 35    | 14    |
| 11.0 | 808   | 617   | 425    | 23    | 19.04 | 85    | 66    | 47    | 27    |
| .5   | 823   | 646   | 468    | 29    | 11    | 94    | 76    | 58    | 41    |
| 12.0 | 837   | 675   | 512    | 35    | 19    | 23.02 | 86    | 70    | 54    |
| .5   | 3.852 | 7.704 | 11.555 | 15.41 | 19.26 | 23.11 | 26.96 | 30.81 | 34.67 |
| 13.0 | 866   | 733   | 599    | 47    | 33    | 20    | 27.06 | 93    | 80    |
| .5   | 881   | 762   | 643    | 52    | 40    | 29    | 17    | 31.05 | 93    |
| 14.0 | 895   | 791   | 686    | 58    | 48    | 37    | 27    | 16    | 35.06 |
| .5   | 910   | 820   | 730    | 64    | 55    | 46    | 37    | 28    | 19    |
| 15.0 | 3.924 | 7.849 | 11.773 | 15.70 | 19.62 | 23.55 | 27.47 | 31.40 | 35.32 |

## 負角改正数

| D   | 00'   | 10'   | 20'   |
|-----|-------|-------|-------|
| 100 | 0.002 | 0.003 | 0.003 |
| 200 | 0.005 | 0.006 | 0.007 |
| 300 | 0.007 | 0.008 | 0.010 |
| 400 | 0.01  | 0.01  | 0.01  |
| 500 | 0.01  | 0.01  | 0.02  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.01  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

2°

| D    | 100   | 200   | 300    | 400   | 500   | 600   | 700   | 800   | 900   |
|------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 15.0 | 3.924 | 7.849 | 11.773 | 15.70 | 19.62 | 23.55 | 27.47 | 31.40 | 35.32 |
| .5   | 939   | 878   | 817    | 76    | 69    | 63    | 57    | 51    | 45    |
| 16.0 | 953   | 907   | 860    | 81    | 77    | 72    | 67    | 63    | 58    |
| .5   | 968   | 936   | 904    | 87    | 84    | 81    | 78    | 74    | 71    |
| 17.0 | 982   | 965   | 947    | 93    | 91    | 89    | 88    | 86    | 84    |
| .5   | 3.997 | 7.994 | 11.991 | 15.99 | 19.98 | 23.98 | 27.98 | 31.98 | 35.97 |
| 18.0 | 4.011 | 8.023 | 12.034 | 16.05 | 20.06 | 24.07 | 28.08 | 32.09 | 36.10 |
| .5   | 026   | 052   | 078    | 10    | 13    | 16    | 18    | 21    | 23    |
| 19.0 | 040   | 081   | 121    | 16    | 20    | 24    | 28    | 32    | 36    |
| .5   | 055   | 110   | 165    | 22    | 27    | 33    | 38    | 44    | 49    |
| 20.0 | 4.069 | 8.139 | 12.208 | 16.28 | 20.35 | 24.42 | 28.49 | 32.56 | 36.63 |
| .5   | 084   | 168   | 252    | 34    | 42    | 50    | 59    | 67    | 76    |
| 21.0 | 098   | 197   | 295    | 39    | 49    | 59    | 69    | 79    | 89    |
| .5   | 113   | 226   | 339    | 45    | 56    | 68    | 79    | 90    | 37.02 |
| 22.0 | 128   | 255   | 382    | 51    | 64    | 76    | 89    | 33.02 | 15    |
| .5   | 4.142 | 8.284 | 12.426 | 16.57 | 20.71 | 24.85 | 28.99 | 33.14 | 37.28 |
| 23.0 | 157   | 313   | 470    | 63    | 78    | 94    | 29.10 | 25    | 41    |
| .5   | 171   | 342   | 513    | 68    | 86    | 25.03 | 20    | 37    | 54    |
| 24.0 | 186   | 371   | 557    | 74    | 93    | 11    | 30    | 48    | 67    |
| .5   | 200   | 400   | 600    | 80    | 21.00 | 20    | 40    | 60    | 80    |
| 25.0 | 4.215 | 8.429 | 12.644 | 16.86 | 21.07 | 25.29 | 29.50 | 33.72 | 37.93 |
| .5   | 229   | 458   | 687    | 92    | 15    | 37    | 60    | 83    | 38.06 |
| 26.0 | 244   | 487   | 731    | 97    | 22    | 46    | 70    | 95    | 19    |
| .5   | 258   | 516   | 774    | 17.03 | 29    | 55    | 81    | 34.06 | 32    |
| 27.0 | 273   | 545   | 818    | 09    | 36    | 64    | 91    | 18    | 45    |
| .5   | 4.287 | 8.574 | 12.861 | 17.15 | 21.44 | 25.72 | 30.01 | 34.30 | 38.58 |
| 28.0 | 302   | 583   | 905    | 21    | 51    | 81    | 11    | 41    | 71    |
| .5   | 316   | 632   | 948    | 26    | 58    | 90    | 21    | 53    | 84    |
| 29.0 | 331   | 661   | 992    | 32    | 65    | 98    | 31    | 64    | 98    |
| .5   | 345   | 690   | 13.035 | 38    | 73    | 26.07 | 42    | 76    | 39.11 |
| 30.0 | 4.360 | 8.719 | 13.079 | 17.44 | 21.80 | 26.16 | 30.52 | 34.88 | 39.24 |

## 負角改正数

| D   | 10'   | 20'   | 30'   |
|-----|-------|-------|-------|
| 100 | 0.003 | 0.003 | 0.004 |
| 200 | 0.006 | 0.007 | 0.008 |
| 300 | 0.008 | 0.010 | 0.011 |
| 400 | 0.01  | 0.01  | 0.02  |
| 500 | 0.01  | 0.02  | 0.02  |

## 秒差改正数

| D   | 0.1   | 0.2   |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.01  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0.3   | 0.4   |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |

2°

| D    | 100   | 200   | 300    | 400   | 500   | 600   | 700   | 800   | 900   |
|------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 30.0 | 4.360 | 8.719 | 13.079 | 17.44 | 21.80 | 26.16 | 30.52 | 34.88 | 39.24 |
| .5   | 374   | 748   | 122    | 50    | 87    | 24    | 62    | 99    | 37    |
| 31.0 | 389   | 777   | 166    | 55    | 94    | 33    | 72    | 35.11 | 50    |
| .5   | 403   | 806   | 209    | 61    | 22.02 | 42    | 82    | 22    | 63    |
| 32.0 | 418   | 835   | 253    | 67    | 09    | 51    | 92    | 34    | 76    |
| .5   | 4.432 | 8.864 | 13.296 | 17.73 | 22.16 | 26.59 | 31.02 | 35.46 | 39.89 |
| 33.0 | 447   | 893   | 340    | 79    | 23    | 68    | 13    | 57    | 40.02 |
| .5   | 461   | 922   | 383    | 84    | 31    | 77    | 23    | 69    | 15    |
| 34.0 | 476   | 951   | 427    | 90    | 38    | 85    | 33    | 80    | 28    |
| .5   | 490   | 980   | 470    | 96    | 45    | 94    | 43    | 92    | 41    |
| 35.0 | 4.505 | 9.009 | 13.514 | 18.02 | 22.52 | 27.03 | 31.53 | 36.04 | 40.54 |
| .5   | 519   | 038   | 557    | 08    | 60    | 11    | 63    | 15    | 67    |
| 36.0 | 534   | 067   | 601    | 13    | 67    | 20    | 73    | 27    | 80    |
| .5   | 548   | 096   | 644    | 19    | 74    | 29    | 84    | 38    | 93    |
| 37.0 | 563   | 125   | 688    | 25    | 81    | 38    | 94    | 50    | 41.06 |
| .5   | 4.577 | 9.154 | 13.731 | 18.31 | 22.89 | 27.46 | 32.04 | 36.62 | 41.19 |
| 38.0 | 592   | 183   | 775    | 37    | 96    | 55    | 14    | 73    | 32    |
| .5   | 606   | 212   | 818    | 42    | 23.03 | 64    | 24    | 85    | 45    |
| 39.0 | 621   | 241   | 862    | 48    | 10    | 72    | 34    | 96    | 58    |
| .5   | 635   | 270   | 905    | 54    | 18    | 81    | 45    | 37.08 | 72    |
| 40.0 | 4.650 | 9.299 | 13.949 | 18.60 | 23.25 | 27.90 | 32.55 | 37.20 | 41.85 |
| .5   | 664   | 328   | 992    | 66    | 32    | 98    | 65    | 31    | 98    |
| 41.0 | 678   | 357   | 14.036 | 71    | 39    | 28.07 | 75    | 43    | 42.11 |
| .5   | 693   | 386   | 14.079 | 77    | 46    | 16    | 85    | 54    | 24    |
| 42.0 | 707   | 415   | 122    | 83    | 54    | 24    | 95    | 66    | 37    |
| .5   | 4.722 | 9.444 | 14.166 | 18.89 | 23.61 | 28.33 | 33.05 | 37.78 | 42.50 |
| 43.0 | 736   | 473   | 209    | 95    | 68    | 42    | 16    | 89    | 63    |
| .5   | 751   | 502   | 253    | 19.00 | 75    | 51    | 26    | 38.01 | 76    |
| 44.0 | 765   | 531   | 296    | 06    | 83    | 59    | 36    | 12    | 89    |
| .5   | 780   | 560   | 340    | 12    | 90    | 68    | 46    | 24    | 43.02 |
| 45.0 | 4.794 | 9.589 | 14.383 | 19.18 | 23.97 | 28.77 | 33.56 | 38.36 | 43.15 |

## 負角改正数

| D   | 30'   | 40'   | 50'   |
|-----|-------|-------|-------|
| 100 | 0.004 | 0.004 | 0.005 |
| 200 | 0.008 | 0.009 | 0.010 |
| 300 | 0.011 | 0.013 | 0.014 |
| 400 | 0.02  | 0.02  | 0.02  |
| 500 | 0.02  | 0.02  | 0.02  |

## 秒差改正数

| D   | 0'.1  | 0'.2  |
|-----|-------|-------|
| 100 | 0.003 | 0.006 |
| 200 | 0.006 | 0.012 |
| 300 | 0.009 | 0.017 |
| 400 | 0.01  | 0.02  |
| 500 | 0.01  | 0.03  |
| 600 | 0.02  | 0.04  |
| 700 | 0.02  | 0.04  |
| 800 | 0.02  | 0.05  |
| 900 | 0.03  | 0.05  |

| D   | 0'.3  | 0'.4  |
|-----|-------|-------|
| 100 | 0.009 | 0.012 |
| 200 | 0.017 | 0.023 |
| 300 | 0.026 | 0.035 |
| 400 | 0.04  | 0.05  |
| 500 | 0.04  | 0.06  |
| 600 | 0.05  | 0.07  |
| 700 | 0.06  | 0.08  |
| 800 | 0.07  | 0.09  |
| 900 | 0.08  | 0.10  |