

## SŁOŃCE

| d                    | JD   | Wsch.       | Zach.        | A           | $\alpha$ | $\delta$     | $\eta$ | $\theta$ |
|----------------------|------|-------------|--------------|-------------|----------|--------------|--------|----------|
|                      |      | $\lambda=0$ | $\varphi=50$ | $0^h$ UT    |          |              |        |          |
| <b>LISTOPAD 2025</b> |      |             |              |             |          |              |        |          |
|                      | 2460 | h m         | h m          | $\pm^\circ$ | h m s    | $^\circ$ ' " | m s    | h m s    |
|                      | 2461 |             |              |             |          |              |        |          |
| 1                    | 981  | 6 50        | 16 37        | 68          | 14 25 45 | -14 26.4     | 16 24  | 2 42 09  |
| 2                    | 982  | 6 52        | 16 35        | 67          | 14 29 40 | -14 45.5     | 16 26  | 2 46 05  |
| 3                    | 983  | 6 53        | 16 33        | 67          | 14 33 36 | -15 04.3     | 16 26  | 2 50 02  |
| 4                    | 984  | 6 55        | 16 32        | 66          | 14 37 33 | -15 22.9     | 16 26  | 2 53 59  |
| 5                    | 985  | 6 57        | 16 30        | 66          | 14 41 30 | -15 41.2     | 16 25  | 2 57 55  |
| 6                    | 986  | 6 58        | 16 28        | 65          | 14 45 29 | -15 59.3     | 16 23  | 3 01 52  |
| 7                    | 987  | 7 00        | 16 27        | 65          | 14 49 28 | -16 17.1     | 16 20  | 3 05 48  |
| 8                    | 988  | 7 02        | 16 25        | 64          | 14 53 28 | -16 34.7     | 16 17  | 3 09 45  |
| 9                    | 989  | 7 03        | 16 24        | 64          | 14 57 29 | -16 51.9     | 16 12  | 3 13 41  |
| 10                   | 990  | 7 05        | 16 22        | 63          | 15 01 31 | -17 08.9     | 16 07  | 3 17 38  |
| 11                   | 991  | 7 07        | 16 21        | 63          | 15 05 34 | -17 25.6     | 16 01  | 3 21 34  |
| 12                   | 992  | 7 08        | 16 20        | 63          | 15 09 37 | -17 42.0     | 15 54  | 3 25 31  |
| 13                   | 993  | 7 10        | 16 18        | 62          | 15 13 42 | -17 58.1     | 15 46  | 3 29 28  |
| 14                   | 994  | 7 11        | 16 17        | 62          | 15 17 47 | -18 13.9     | 15 37  | 3 33 24  |
| 15                   | 995  | 7 13        | 16 16        | 61          | 15 21 53 | -18 29.4     | 15 28  | 3 37 21  |
| 16                   | 996  | 7 15        | 16 14        | 61          | 15 26 00 | -18 44.5     | 15 17  | 3 41 17  |
| 17                   | 997  | 7 16        | 16 13        | 60          | 15 30 08 | -18 59.3     | 15 06  | 3 45 14  |
| 18                   | 998  | 7 18        | 16 12        | 60          | 15 34 17 | -19 13.8     | 14 54  | 3 49 10  |
| 19                   | 999  | 7 19        | 16 11        | 60          | 15 38 26 | -19 27.9     | 14 41  | 3 53 07  |
| 20                   | 000  | 7 21        | 16 10        | 59          | 15 42 37 | -19 41.7     | 14 27  | 3 57 03  |
| 21                   | 001  | 7 23        | 16 09        | 59          | 15 46 48 | -19 55.1     | 14 12  | 4 01 00  |
| 22                   | 002  | 7 24        | 16 08        | 59          | 15 51 00 | -20 08.1     | 13 57  | 4 04 57  |
| 23                   | 003  | 7 26        | 16 07        | 58          | 15 55 13 | -20 20.8     | 13 41  | 4 08 53  |
| 24                   | 004  | 7 27        | 16 06        | 58          | 15 59 26 | -20 33.1     | 13 24  | 4 12 50  |
| 25                   | 005  | 7 29        | 16 05        | 58          | 16 03 40 | -20 45.0     | 13 06  | 4 16 46  |
| 26                   | 006  | 7 30        | 16 04        | 57          | 16 07 56 | -20 56.6     | 12 47  | 4 20 43  |
| 27                   | 007  | 7 31        | 16 04        | 57          | 16 12 11 | -21 07.7     | 12 28  | 4 24 39  |
| 28                   | 008  | 7 33        | 16 03        | 57          | 16 16 28 | -21 18.5     | 12 08  | 4 28 36  |
| 29                   | 009  | 7 34        | 16 02        | 56          | 16 20 45 | -21 28.8     | 11 48  | 4 32 32  |
| 30                   | 010  | 7 36        | 16 02        | 56          | 16 25 03 | -21 38.7     | 11 26  | 4 36 29  |

13 XI 3<sup>h</sup>44<sup>m</sup> Merkury 1.2°S od Marsa

25 XI 0<sup>h</sup>34<sup>m</sup> Merkury 1°N od Wenus