

SŁOŃCE

| Data 2012 | 0 ^h UT | | | Data 2012 | 0 ^h UT | | | | |
|--------------|-------------------|----------------|----------------|--------------|-------------------|----------------|----------------|-------|--------|
| | P | B ₀ | L ₀ | | P | B ₀ | L ₀ | | |
| I | 1 | 2.34 | -2.95 | 117.75 | II | 18 | -18.17 | -6.92 | 205.70 |
| | 2 | 1.86 | -3.06 | 104.57 | | 19 | -18.49 | -6.96 | 192.53 |
| | 3 | 1.37 | -3.18 | 91.40 | | 20 | -18.81 | -7.00 | 179.36 |
| | 4 | 0.89 | -3.29 | 78.23 | | 21 | -19.12 | -7.03 | 166.19 |
| | 5 | 0.40 | -3.41 | 65.06 | | 22 | -19.42 | -7.06 | 153.03 |
| | 6 | -0.08 | -3.52 | 51.89 | | 23 | -19.71 | -7.09 | 139.86 |
| | 7 | -0.57 | -3.63 | 38.72 | | 24 | -20.00 | -7.11 | 126.69 |
| | 8 | -1.05 | -3.74 | 25.55 | | 25 | -20.29 | -7.14 | 113.52 |
| | 9 | -1.53 | -3.85 | 12.39 | | 26 | -20.56 | -7.16 | 100.35 |
| | 10 | -2.01 | -3.96 | 359.22 | | 27 | -20.84 | -7.18 | 87.17 |
| | 11 | -2.49 | -4.07 | 346.05 | | 28 | -21.10 | -7.19 | 74.00 |
| | 12 | -2.96 | -4.18 | 332.88 | | 29 | -21.36 | -7.21 | 60.83 |
| | 13 | -3.44 | -4.28 | 319.71 | III | 1 | -21.61 | -7.22 | 47.66 |
| | 14 | -3.91 | -4.38 | 306.54 | | 2 | -21.86 | -7.23 | 34.49 |
| | 15 | -4.38 | -4.48 | 293.37 | | 3 | -22.10 | -7.24 | 21.31 |
| | 16 | -4.85 | -4.59 | 280.21 | | 4 | -22.33 | -7.25 | 8.14 |
| | 17 | -5.32 | -4.68 | 267.04 | | 5 | -22.56 | -7.25 | 354.96 |
| | 18 | -5.78 | -4.78 | 253.87 | | 6 | -22.78 | -7.25 | 341.79 |
| | 19 | -6.24 | -4.88 | 240.70 | | 7 | -23.00 | -7.25 | 328.61 |
| | 20 | -6.70 | -4.97 | 227.54 | | 8 | -23.20 | -7.25 | 315.44 |
| | 21 | -7.16 | -5.07 | 214.37 | | 9 | -23.41 | -7.24 | 302.26 |
| | 22 | -7.61 | -5.16 | 201.20 | | 10 | -23.60 | -7.23 | 289.08 |
| | 23 | -8.06 | -5.25 | 188.04 | | 11 | -23.79 | -7.22 | 275.90 |
| | 24 | -8.50 | -5.33 | 174.87 | | 12 | -23.97 | -7.21 | 262.72 |
| | 25 | -8.94 | -5.42 | 161.71 | | 13 | -24.15 | -7.20 | 249.55 |
| | 26 | -9.38 | -5.51 | 148.54 | | 14 | -24.31 | -7.18 | 236.37 |
| | 27 | -9.81 | -5.59 | 135.37 | | 15 | -24.47 | -7.16 | 223.19 |
| | 28 | -10.24 | -5.67 | 122.21 | | 16 | -24.63 | -7.14 | 210.01 |
| | 29 | -10.67 | -5.75 | 109.04 | | 17 | -24.78 | -7.12 | 196.82 |
| | 30 | -11.09 | -5.83 | 95.88 | | 18 | -24.92 | -7.09 | 183.64 |
| | 31 | -11.51 | -5.90 | 82.71 | | 19 | -25.05 | -7.07 | 170.46 |
| II | 1 | -11.92 | -5.98 | 69.54 | | 20 | -25.18 | -7.04 | 157.28 |
| | 2 | -12.33 | -6.05 | 56.38 | | 21 | -25.30 | -7.01 | 144.09 |
| | 3 | -12.73 | -6.12 | 43.21 | | 22 | -25.42 | -6.97 | 130.91 |
| | 4 | -13.13 | -6.19 | 30.04 | | 23 | -25.52 | -6.94 | 117.72 |
| | 5 | -13.52 | -6.25 | 16.88 | | 24 | -25.62 | -6.90 | 104.54 |
| | 6 | -13.91 | -6.32 | 3.71 | | 25 | -25.71 | -6.86 | 91.35 |
| | 7 | -14.30 | -6.38 | 350.54 | | 26 | -25.80 | -6.82 | 78.16 |
| | 8 | -14.68 | -6.44 | 337.38 | | 27 | -25.88 | -6.78 | 64.98 |
| | 9 | -15.05 | -6.50 | 324.21 | | 28 | -25.95 | -6.73 | 51.79 |
| | 10 | -15.42 | -6.55 | 311.04 | | 29 | -26.01 | -6.68 | 38.60 |
| | 11 | -15.78 | -6.61 | 297.87 | | 30 | -26.07 | -6.63 | 25.41 |
| | 12 | -16.14 | -6.66 | 284.71 | | 31 | -26.12 | -6.58 | 12.22 |
| | 13 | -16.49 | -6.71 | 271.54 | IV | 1 | -26.16 | -6.53 | 359.02 |
| | 14 | -16.84 | -6.75 | 258.37 | | 2 | -26.20 | -6.47 | 345.83 |
| | 15 | -17.18 | -6.80 | 245.20 | | 3 | -26.23 | -6.42 | 332.64 |
| | 16 | -17.52 | -6.84 | 232.04 | | 4 | -26.25 | -6.36 | 319.44 |
| II | 17 | -17.85 | -6.88 | 218.87 | | 5 | -26.27 | -6.29 | 306.25 |
| | | | | | IV | 6 | -26.27 | -6.23 | 293.05 |

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| | P | B ₀ | L ₀ | | P | B ₀ | L ₀ | | |
| IV | 7 | -26.27 | -6.17 | 279.85 | V | 25 | -17.79 | -1.47 | 5.50 |
| | 8 | -26.26 | -6.10 | 266.65 | | 26 | -17.44 | -1.35 | 352.27 |
| | 9 | -26.25 | -6.03 | 253.46 | | 27 | -17.10 | -1.23 | 339.04 |
| | 10 | -26.23 | -5.96 | 240.26 | | 28 | -16.75 | -1.11 | 325.81 |
| | 11 | -26.20 | -5.89 | 227.05 | | 29 | -16.39 | -0.99 | 312.58 |
| | 12 | -26.16 | -5.82 | 213.85 | | 30 | -16.03 | -0.87 | 299.34 |
| | 13 | -26.12 | -5.74 | 200.65 | | 31 | -15.66 | -0.75 | 286.11 |
| | 14 | -26.07 | -5.67 | 187.45 | VI | 1 | -15.29 | -0.63 | 272.88 |
| | 15 | -26.01 | -5.59 | 174.25 | | 2 | -14.91 | -0.51 | 259.64 |
| | 16 | -25.94 | -5.51 | 161.04 | | 3 | -14.53 | -0.39 | 246.41 |
| | 17 | -25.87 | -5.43 | 147.84 | | 4 | -14.15 | -0.27 | 233.17 |
| | 18 | -25.79 | -5.35 | 134.63 | | 5 | -13.76 | -0.15 | 219.94 |
| | 19 | -25.70 | -5.26 | 121.42 | | 6 | -13.36 | -0.03 | 206.70 |
| | 20 | -25.60 | -5.17 | 108.22 | | 7 | -12.96 | 0.09 | 193.47 |
| | 21 | -25.50 | -5.09 | 95.01 | | 8 | -12.56 | 0.21 | 180.23 |
| | 22 | -25.39 | -5.00 | 81.80 | | 9 | -12.15 | 0.33 | 167.00 |
| | 23 | -25.27 | -4.91 | 68.59 | | 10 | -11.74 | 0.45 | 153.76 |
| | 24 | -25.15 | -4.82 | 55.38 | | 11 | -11.33 | 0.57 | 140.52 |
| | 25 | -25.01 | -4.72 | 42.17 | | 12 | -10.91 | 0.69 | 127.29 |
| | 26 | -24.87 | -4.63 | 28.96 | | 13 | -10.49 | 0.81 | 114.05 |
| | 27 | -24.73 | -4.54 | 15.74 | | 14 | -10.06 | 0.93 | 100.82 |
| | 28 | -24.57 | -4.44 | 2.53 | | 15 | -9.64 | 1.05 | 87.58 |
| | 29 | -24.41 | -4.34 | 349.32 | | 16 | -9.21 | 1.17 | 74.34 |
| | 30 | -24.24 | -4.24 | 336.10 | | 17 | -8.77 | 1.29 | 61.11 |
| V | 1 | -24.07 | -4.14 | 322.89 | | 18 | -8.34 | 1.41 | 47.87 |
| | 2 | -23.88 | -4.04 | 309.67 | | 19 | -7.90 | 1.53 | 34.63 |
| | 3 | -23.69 | -3.94 | 296.45 | | 20 | -7.46 | 1.64 | 21.40 |
| | 4 | -23.49 | -3.83 | 283.23 | | 21 | -7.02 | 1.76 | 8.16 |
| | 5 | -23.29 | -3.73 | 270.01 | | 22 | -6.58 | 1.88 | 354.92 |
| | 6 | -23.08 | -3.62 | 256.79 | | 23 | -6.13 | 1.99 | 341.69 |
| | 7 | -22.86 | -3.52 | 243.57 | | 24 | -5.68 | 2.11 | 328.45 |
| | 8 | -22.63 | -3.41 | 230.35 | | 25 | -5.23 | 2.22 | 315.21 |
| | 9 | -22.40 | -3.30 | 217.13 | | 26 | -4.78 | 2.34 | 301.98 |
| | 10 | -22.16 | -3.19 | 203.91 | | 27 | -4.33 | 2.45 | 288.74 |
| | 11 | -21.92 | -3.08 | 190.68 | | 28 | -3.88 | 2.57 | 275.50 |
| | 12 | -21.66 | -2.97 | 177.46 | | 29 | -3.43 | 2.68 | 262.27 |
| | 13 | -21.40 | -2.86 | 164.23 | | 30 | -2.98 | 2.79 | 249.03 |
| | 14 | -21.14 | -2.75 | 151.01 | VII | 1 | -2.52 | 2.90 | 235.79 |
| | 15 | -20.86 | -2.64 | 137.78 | | 2 | -2.07 | 3.01 | 222.56 |
| | 16 | -20.58 | -2.52 | 124.56 | | 3 | -1.62 | 3.12 | 209.32 |
| | 17 | -20.30 | -2.41 | 111.33 | | 4 | -1.16 | 3.23 | 196.09 |
| | 18 | -20.00 | -2.29 | 98.11 | | 5 | -0.71 | 3.33 | 182.85 |
| | 19 | -19.71 | -2.18 | 84.88 | | 6 | -0.26 | 3.44 | 169.61 |
| | 20 | -19.40 | -2.06 | 71.65 | | 7 | 0.19 | 3.55 | 156.38 |
| | 21 | -19.09 | -1.94 | 58.42 | | 8 | 0.65 | 3.65 | 143.14 |
| | 22 | -18.77 | -1.83 | 45.19 | | 9 | 1.10 | 3.75 | 129.91 |
| | 23 | -18.45 | -1.71 | 31.96 | | 10 | 1.55 | 3.86 | 116.67 |
| V | 24 | -18.12 | -1.59 | 18.73 | VII | 11 | 2.00 | 3.96 | 103.44 |

SŁOŃCE

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| | P | B ₀ | L ₀ | | P | B ₀ | L ₀ | | |
| VII | 12 | 2.44 | 4.06 | 90.21 | VIII | 29 | 20.36 | 7.14 | 175.50 |
| | 13 | 2.89 | 4.16 | 76.97 | | 30 | 20.63 | 7.16 | 162.29 |
| | 14 | 3.34 | 4.26 | 63.74 | | 31 | 20.89 | 7.18 | 149.08 |
| | 15 | 3.78 | 4.35 | 50.51 | IX | 1 | 21.14 | 7.20 | 135.87 |
| | 16 | 4.22 | 4.45 | 37.27 | | 2 | 21.39 | 7.21 | 122.66 |
| | 17 | 4.66 | 4.54 | 24.04 | | 3 | 21.64 | 7.22 | 109.45 |
| | 18 | 5.10 | 4.64 | 10.81 | | 4 | 21.87 | 7.23 | 96.24 |
| | 19 | 5.53 | 4.73 | 357.58 | | 5 | 22.10 | 7.24 | 83.03 |
| | 20 | 5.97 | 4.82 | 344.35 | | 6 | 22.33 | 7.24 | 69.82 |
| | 21 | 6.40 | 4.91 | 331.12 | | 7 | 22.55 | 7.25 | 56.62 |
| | 22 | 6.83 | 5.00 | 317.89 | | 8 | 22.77 | 7.25 | 43.41 |
| | 23 | 7.25 | 5.09 | 304.66 | | 9 | 22.97 | 7.25 | 30.21 |
| | 24 | 7.68 | 5.17 | 291.43 | | 10 | 23.18 | 7.25 | 17.00 |
| | 25 | 8.10 | 5.25 | 278.20 | | 11 | 23.37 | 7.24 | 3.80 |
| | 26 | 8.52 | 5.34 | 264.97 | | 12 | 23.56 | 7.23 | 350.59 |
| | 27 | 8.93 | 5.42 | 251.74 | | 13 | 23.75 | 7.23 | 337.39 |
| | 28 | 9.34 | 5.50 | 238.52 | | 14 | 23.93 | 7.21 | 324.19 |
| | 29 | 9.75 | 5.58 | 225.29 | | 15 | 24.10 | 7.20 | 310.99 |
| | 30 | 10.15 | 5.65 | 212.06 | | 16 | 24.27 | 7.19 | 297.78 |
| | 31 | 10.55 | 5.73 | 198.84 | | 17 | 24.43 | 7.17 | 284.58 |
| VIII | 1 | 10.95 | 5.80 | 185.61 | | 18 | 24.58 | 7.15 | 271.38 |
| | 2 | 11.35 | 5.87 | 172.38 | | 19 | 24.73 | 7.13 | 258.18 |
| | 3 | 11.74 | 5.94 | 159.16 | | 20 | 24.87 | 7.10 | 244.98 |
| | 4 | 12.12 | 6.01 | 145.93 | | 21 | 25.00 | 7.08 | 231.78 |
| | 5 | 12.51 | 6.08 | 132.71 | | 22 | 25.13 | 7.05 | 218.58 |
| | 6 | 12.89 | 6.14 | 119.49 | | 23 | 25.25 | 7.02 | 205.38 |
| | 7 | 13.26 | 6.21 | 106.26 | | 24 | 25.37 | 6.99 | 192.19 |
| | 8 | 13.63 | 6.27 | 93.04 | | 25 | 25.48 | 6.95 | 178.99 |
| | 9 | 14.00 | 6.33 | 79.82 | | 26 | 25.58 | 6.92 | 165.79 |
| | 10 | 14.36 | 6.39 | 66.60 | | 27 | 25.67 | 6.88 | 152.59 |
| | 11 | 14.72 | 6.44 | 53.38 | | 28 | 25.76 | 6.84 | 139.39 |
| | 12 | 15.07 | 6.50 | 40.16 | | 29 | 25.84 | 6.80 | 126.20 |
| | 13 | 15.42 | 6.55 | 26.94 | | 30 | 25.91 | 6.75 | 113.00 |
| | 14 | 15.77 | 6.60 | 13.72 | X | 1 | 25.98 | 6.71 | 99.81 |
| | 15 | 16.11 | 6.65 | 0.50 | | 2 | 26.04 | 6.66 | 86.61 |
| | 16 | 16.44 | 6.70 | 347.28 | | 3 | 26.10 | 6.61 | 73.41 |
| | 17 | 16.78 | 6.75 | 334.06 | | 4 | 26.14 | 6.56 | 60.22 |
| | 18 | 17.10 | 6.79 | 320.85 | | 5 | 26.18 | 6.50 | 47.02 |
| | 19 | 17.42 | 6.83 | 307.63 | | 6 | 26.21 | 6.44 | 33.83 |
| | 20 | 17.74 | 6.87 | 294.42 | | 7 | 26.24 | 6.39 | 20.64 |
| | 21 | 18.05 | 6.91 | 281.20 | | 8 | 26.26 | 6.33 | 7.44 |
| | 22 | 18.36 | 6.95 | 267.99 | | 9 | 26.27 | 6.26 | 354.25 |
| | 23 | 18.66 | 6.98 | 254.77 | | 10 | 26.27 | 6.20 | 341.06 |
| | 24 | 18.96 | 7.01 | 241.56 | | 11 | 26.27 | 6.13 | 327.87 |
| | 25 | 19.25 | 7.04 | 228.35 | | 12 | 26.26 | 6.07 | 314.67 |
| | 26 | 19.54 | 7.07 | 215.13 | | 13 | 26.24 | 6.00 | 301.48 |
| | 27 | 19.82 | 7.10 | 201.92 | | 14 | 26.21 | 5.93 | 288.29 |
| VIII | 28 | 20.09 | 7.12 | 188.71 | X | 15 | 26.18 | 5.85 | 275.10 |

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| Data 2012 | 0 ^h UT | | | Data 2012 | 0 ^h UT | | | | |
|--------------|-------------------|----------------|----------------|--------------|-------------------|----------------|----------------|-------|--------|
| | P | B ₀ | L ₀ | | P | B ₀ | L ₀ | | |
| X | 16 | 26.14 | 5.78 | 261.91 | XII | 3 | 15.17 | 0.60 | 349.07 |
| | 17 | 26.09 | 5.70 | 248.72 | | 4 | 14.77 | 0.47 | 335.89 |
| | 18 | 26.03 | 5.62 | 235.53 | | 5 | 14.36 | 0.34 | 322.71 |
| | 19 | 25.97 | 5.54 | 222.34 | | 6 | 13.95 | 0.21 | 309.53 |
| | 20 | 25.89 | 5.46 | 209.15 | | 7 | 13.53 | 0.08 | 296.35 |
| | 21 | 25.82 | 5.38 | 195.96 | | 8 | 13.11 | -0.04 | 283.18 |
| | 22 | 25.73 | 5.29 | 182.77 | | 9 | 12.69 | -0.17 | 270.00 |
| | 23 | 25.63 | 5.20 | 169.59 | | 10 | 12.25 | -0.30 | 256.82 |
| | 24 | 25.53 | 5.12 | 156.40 | | 11 | 11.82 | -0.43 | 243.65 |
| | 25 | 25.42 | 5.03 | 143.21 | | 12 | 11.38 | -0.56 | 230.47 |
| | 26 | 25.30 | 4.93 | 130.02 | | 13 | 10.93 | -0.69 | 217.30 |
| | 27 | 25.18 | 4.84 | 116.83 | | 14 | 10.49 | -0.81 | 204.12 |
| | 28 | 25.04 | 4.75 | 103.65 | | 15 | 10.03 | -0.94 | 190.95 |
| | 29 | 24.90 | 4.65 | 90.46 | | 16 | 9.58 | -1.07 | 177.77 |
| | 30 | 24.75 | 4.55 | 77.27 | | 17 | 9.12 | -1.19 | 164.60 |
| | 31 | 24.59 | 4.45 | 64.08 | | 18 | 8.66 | -1.32 | 151.43 |
| XI | 1 | 24.43 | 4.35 | 50.90 | | 19 | 8.19 | -1.45 | 138.25 |
| | 2 | 24.26 | 4.25 | 37.71 | | 20 | 7.73 | -1.57 | 125.08 |
| | 3 | 24.07 | 4.15 | 24.52 | | 21 | 7.26 | -1.70 | 111.90 |
| | 4 | 23.89 | 4.04 | 11.34 | | 22 | 6.78 | -1.82 | 98.73 |
| | 5 | 23.69 | 3.94 | 358.15 | | 23 | 6.31 | -1.95 | 85.56 |
| | 6 | 23.48 | 3.83 | 344.97 | | 24 | 5.83 | -2.07 | 72.38 |
| | 7 | 23.27 | 3.72 | 331.78 | | 25 | 5.35 | -2.19 | 59.21 |
| | 8 | 23.05 | 3.61 | 318.60 | | 26 | 4.87 | -2.32 | 46.04 |
| | 9 | 22.82 | 3.50 | 305.41 | | 27 | 4.39 | -2.44 | 32.87 |
| | 10 | 22.59 | 3.39 | 292.23 | | 28 | 3.91 | -2.56 | 19.70 |
| | 11 | 22.35 | 3.28 | 279.05 | | 29 | 3.43 | -2.68 | 6.52 |
| | 12 | 22.09 | 3.16 | 265.86 | | 30 | 2.94 | -2.80 | 353.35 |
| | 13 | 21.84 | 3.05 | 252.68 | XII | 31 | 2.46 | -2.92 | 340.18 |
| | 14 | 21.57 | 2.93 | 239.50 | | | | | |
| | 15 | 21.30 | 2.82 | 226.32 | | | | | |
| | 16 | 21.01 | 2.70 | 213.13 | | | | | |
| | 17 | 20.73 | 2.58 | 199.95 | | | | | |
| | 18 | 20.43 | 2.46 | 186.77 | | | | | |
| | 19 | 20.13 | 2.34 | 173.59 | | | | | |
| | 20 | 19.82 | 2.22 | 160.41 | | | | | |
| | 21 | 19.50 | 2.10 | 147.23 | | | | | |
| | 22 | 19.17 | 1.98 | 134.04 | | | | | |
| | 23 | 18.84 | 1.85 | 120.86 | | | | | |
| | 24 | 18.50 | 1.73 | 107.68 | | | | | |
| | 25 | 18.16 | 1.60 | 94.50 | | | | | |
| | 26 | 17.81 | 1.48 | 81.32 | | | | | |
| | 27 | 17.45 | 1.35 | 68.14 | | | | | |
| | 28 | 17.08 | 1.23 | 54.96 | | | | | |
| | 29 | 16.71 | 1.10 | 41.78 | | | | | |
| | 30 | 16.34 | 0.98 | 28.60 | | | | | |
| XII | 1 | 15.95 | 0.85 | 15.42 | | | | | |
| XII | 2 | 15.56 | 0.72 | 2.24 | | | | | |