

Analemmatic Sundial

Latitude: 30.0° N/S

Earliest Sunrise: 4:57 a.m. Latest Sunset: 7:03 p.m.
 Semi-Major Axis (E-W): 1000 mm Semi-Minor Axis (N-S): 500.0 mm
 Sunrise/Sunset Markers: X = ± 732.9 mm

| Local Time | X | Y | Z | W | Local Time | X | Y | Z | W | | |
|------------|-------|-------|-------|-------|------------|------|------|--------|--------|--------|--------|
| 12:00 | 0.0 | 500.0 | 500.0 | 0.0 | | | | | | | |
| 11:55 | 12:05 | 21.8 | 499.9 | 500.4 | 21.8 | 8:10 | 3:50 | 843.4 | 268.6 | 885.1 | 874.5 |
| 11:50 | 12:10 | 43.6 | 499.5 | 501.4 | 43.6 | 8:05 | 3:55 | 854.9 | 259.4 | 893.4 | 888.1 |
| 11:45 | 12:15 | 65.4 | 498.9 | 503.2 | 65.4 | 8:00 | 4:00 | 866.0 | 250.0 | 901.4 | 901.4 |
| 11:40 | 12:20 | 87.2 | 498.1 | 505.7 | 87.2 | 7:55 | 4:05 | 876.7 | 240.5 | 909.1 | 914.3 |
| 11:35 | 12:25 | 108.9 | 497.0 | 508.8 | 108.9 | 7:50 | 4:10 | 887.0 | 230.9 | 916.6 | 926.9 |
| 11:30 | 12:30 | 130.5 | 495.7 | 512.6 | 130.6 | 7:45 | 4:15 | 896.9 | 221.1 | 923.7 | 939.2 |
| 11:25 | 12:35 | 152.1 | 494.2 | 517.1 | 152.2 | 7:40 | 4:20 | 906.3 | 211.3 | 930.6 | 951.2 |
| 11:20 | 12:40 | 173.6 | 492.4 | 522.1 | 173.8 | 7:35 | 4:25 | 915.3 | 201.4 | 937.2 | 962.8 |
| 11:15 | 12:45 | 195.1 | 490.4 | 527.8 | 195.3 | 7:30 | 4:30 | 923.9 | 191.3 | 943.5 | 974.1 |
| 11:10 | 12:50 | 216.4 | 488.1 | 534.0 | 216.8 | 7:25 | 4:35 | 932.0 | 181.2 | 949.5 | 985.0 |
| 11:05 | 12:55 | 237.7 | 485.7 | 540.7 | 238.1 | 7:20 | 4:40 | 939.7 | 171.0 | 955.1 | 995.6 |
| 11:00 | 1:00 | 258.8 | 483.0 | 547.9 | 259.4 | 7:15 | 4:45 | 946.9 | 160.7 | 960.5 | 1005.9 |
| 10:55 | 1:05 | 279.8 | 480.0 | 555.6 | 280.5 | 7:10 | 4:50 | 953.7 | 150.4 | 965.5 | 1015.8 |
| 10:50 | 1:10 | 300.7 | 476.9 | 563.8 | 301.6 | 7:05 | 4:55 | 960.0 | 139.9 | 970.2 | 1025.4 |
| 10:45 | 1:15 | 321.4 | 473.5 | 572.3 | 322.5 | 7:00 | 5:00 | 965.9 | 129.4 | 974.6 | 1034.6 |
| 10:40 | 1:20 | 342.0 | 469.8 | 581.1 | 343.3 | 6:55 | 5:05 | 971.3 | 118.8 | 978.6 | 1043.4 |
| 10:35 | 1:25 | 362.4 | 466.0 | 590.4 | 364.0 | 6:50 | 5:10 | 976.3 | 108.2 | 982.3 | 1052.0 |
| 10:30 | 1:30 | 382.7 | 461.9 | 599.9 | 384.6 | 6:45 | 5:15 | 980.8 | 97.5 | 985.6 | 1060.1 |
| 10:25 | 1:35 | 402.7 | 457.7 | 609.6 | 405.0 | 6:40 | 5:20 | 984.8 | 86.8 | 988.6 | 1068.0 |
| 10:20 | 1:40 | 422.6 | 453.2 | 619.6 | 425.2 | 6:35 | 5:25 | 988.4 | 76.1 | 991.3 | 1075.4 |
| 10:15 | 1:45 | 442.3 | 448.4 | 629.9 | 445.3 | 6:30 | 5:30 | 991.4 | 65.3 | 993.6 | 1082.6 |
| 10:10 | 1:50 | 461.7 | 443.5 | 640.2 | 465.2 | 6:25 | 5:35 | 994.1 | 54.4 | 995.5 | 1089.3 |
| 10:05 | 1:55 | 481.0 | 438.4 | 650.8 | 484.9 | 6:20 | 5:40 | 996.2 | 43.6 | 997.1 | 1095.8 |
| 10:00 | 2:00 | 500.0 | 433.0 | 661.4 | 504.5 | 6:15 | 5:45 | 997.9 | 32.7 | 998.4 | 1101.9 |
| 9:55 | 2:05 | 518.8 | 427.5 | 672.2 | 523.8 | 6:10 | 5:50 | 999.0 | 21.8 | 999.3 | 1107.6 |
| 9:50 | 2:10 | 537.3 | 421.7 | 683.0 | 543.0 | 6:05 | 5:55 | 999.8 | 10.9 | 999.8 | 1113.0 |
| 9:45 | 2:15 | 555.6 | 415.7 | 693.9 | 561.9 | 6:00 | 6:00 | 1000.0 | 0.0 | 1000.0 | 1118.0 |
| 9:40 | 2:20 | 573.6 | 409.6 | 704.8 | 580.7 | 5:55 | 6:05 | 999.8 | -10.9 | 999.8 | 1122.7 |
| 9:35 | 2:25 | 591.3 | 403.2 | 715.7 | 599.2 | 5:50 | 6:10 | 999.0 | -21.8 | 999.3 | 1127.1 |
| 9:30 | 2:30 | 608.8 | 396.7 | 726.6 | 617.5 | 5:45 | 6:15 | 997.9 | -32.7 | 998.4 | 1131.1 |
| 9:25 | 2:35 | 625.9 | 389.9 | 737.5 | 635.5 | 5:40 | 6:20 | 996.2 | -43.6 | 997.1 | 1134.8 |
| 9:20 | 2:40 | 642.8 | 383.0 | 748.3 | 653.3 | 5:35 | 6:25 | 994.1 | -54.4 | 995.5 | 1138.2 |
| 9:15 | 2:45 | 659.3 | 375.9 | 759.0 | 670.9 | 5:30 | 6:30 | 991.4 | -65.3 | 993.6 | 1141.3 |
| 9:10 | 2:50 | 675.6 | 368.6 | 769.6 | 688.2 | 5:25 | 6:35 | 988.4 | -76.1 | 991.3 | 1144.0 |
| 9:05 | 2:55 | 691.5 | 361.2 | 780.2 | 705.3 | 5:20 | 6:40 | 984.8 | -86.8 | 988.6 | 1146.4 |
| 9:00 | 3:00 | 707.1 | 353.6 | 790.6 | 722.1 | 5:15 | 6:45 | 980.8 | -97.5 | 985.6 | 1148.5 |
| 8:55 | 3:05 | 722.4 | 345.8 | 800.8 | 738.6 | 5:10 | 6:50 | 976.3 | -108.2 | 982.3 | 1150.3 |
| 8:50 | 3:10 | 737.3 | 337.8 | 811.0 | 754.9 | 5:05 | 6:55 | 971.3 | -118.8 | 978.6 | 1151.7 |
| 8:45 | 3:15 | 751.8 | 329.7 | 820.9 | 770.9 | 5:00 | 7:00 | 965.9 | -129.4 | 974.6 | 1152.9 |
| 8:40 | 3:20 | 766.0 | 321.4 | 830.7 | 786.6 | 4:55 | 7:05 | 960.0 | -139.9 | 970.2 | 1153.8 |
| 8:35 | 3:25 | 779.9 | 313.0 | 840.3 | 802.0 | 4:50 | 7:10 | 953.7 | -150.4 | 965.5 | 1154.4 |
| 8:30 | 3:30 | 793.4 | 304.4 | 849.7 | 817.1 | 4:45 | 7:15 | 946.9 | -160.7 | 960.5 | 1154.7 |
| 8:25 | 3:35 | 806.4 | 295.7 | 858.9 | 831.9 | | | | | | |
| 8:20 | 3:40 | 819.2 | 286.8 | 867.9 | 846.4 | | | | | | |
| 8:15 | 3:45 | 831.5 | 277.8 | 876.6 | 860.7 | | | | | | |

Analemmatic Sundial

Latitude: 30.0° N/S

Date Scale

Semi-Major Axis (E-W): 1000 mm Semi-Minor Axis (N-S): 500.0 mm

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | -367.4 | -360.5 | -358.4 | -348.8 | -346.0 | -334.2 | -330.9 | -316.7 | -313.0 | -297.0 | -292.8 |
| February | -265.8 | -246.4 | -241.3 | -220.7 | -215.6 | -194.1 | -188.5 | -166.3 | -160.7 | -137.8 | -131.9 |
| March | -114.5 | -91.0 | -85.1 | -61.3 | -55.4 | -31.5 | -25.6 | -1.5 | 4.4 | 28.3 | 34.2 |
| April | 69.7 | 93.0 | 98.8 | 121.7 | 127.4 | 149.9 | 155.4 | 177.3 | 182.7 | 203.8 | 208.9 |
| May | 234.0 | 253.2 | 257.8 | 275.7 | 280.1 | 296.5 | 300.4 | 315.4 | 319.0 | 332.1 | 335.0 |
| June | 351.3 | 359.8 | 361.7 | 368.0 | 369.4 | 373.3 | 373.9 | 375.3 | 375.5 | 372.8 | 374.0 |
| July | 369.4 | 363.5 | 361.7 | 353.8 | 351.5 | 341.1 | 338.3 | 326.0 | 322.8 | 308.7 | 305.0 |
| August | 281.1 | 263.6 | 259.2 | 240.5 | 235.8 | 216.1 | 211.0 | 190.4 | 185.2 | 163.8 | 158.3 |
| September | 125.3 | 102.7 | 97.0 | 73.9 | 68.2 | 44.9 | 39.2 | 15.7 | 9.8 | -13.8 | -19.7 |
| October | -49.0 | -72.6 | -78.4 | -101.7 | -107.4 | -130.5 | -136.2 | -158.8 | -164.4 | -186.5 | -191.8 |
| November | -223.5 | -243.8 | -248.7 | -267.7 | -272.4 | -290.1 | -294.3 | -310.4 | -314.2 | -328.5 | -331.9 |
| December | -346.7 | -356.8 | -358.9 | -366.2 | -367.8 | -372.4 | -373.3 | -375.3 | -375.5 | -374.6 | -374.0 |

Northern Hemisphere

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | 367.4 | 360.5 | 358.4 | 348.8 | 346.0 | 334.2 | 330.9 | 316.7 | 313.0 | 297.0 | 292.8 |
| February | 265.8 | 246.4 | 241.3 | 220.7 | 215.6 | 194.1 | 188.5 | 166.3 | 160.7 | 137.8 | 131.9 |
| March | 114.5 | 91.0 | 85.1 | 61.3 | 55.4 | 31.5 | 25.6 | 1.5 | -4.4 | -28.3 | -34.2 |
| April | -69.7 | -93.0 | -98.8 | -121.7 | -127.4 | -149.9 | -155.4 | -177.3 | -182.7 | -203.8 | -208.9 |
| May | -234.0 | -253.2 | -257.8 | -275.7 | -280.1 | -296.5 | -300.4 | -315.4 | -319.0 | -332.1 | -335.0 |
| June | -351.3 | -359.8 | -361.7 | -368.0 | -369.4 | -373.3 | -373.9 | -375.3 | -375.5 | -372.8 | -374.0 |
| July | -369.4 | -363.5 | -361.7 | -353.8 | -351.5 | -341.1 | -338.3 | -326.0 | -322.8 | -308.7 | -305.0 |
| August | -281.1 | -263.6 | -259.2 | -240.5 | -235.8 | -216.1 | -211.0 | -190.4 | -185.2 | -163.8 | -158.3 |
| September | -125.3 | -102.7 | -97.0 | -73.9 | -68.2 | -44.9 | -39.2 | -15.7 | -9.8 | 13.8 | 19.7 |
| October | 49.0 | 72.6 | 78.4 | 101.7 | 107.4 | 130.5 | 136.2 | 158.8 | 164.4 | 186.5 | 191.8 |
| November | 223.5 | 243.8 | 248.7 | 267.7 | 272.4 | 290.1 | 294.3 | 310.4 | 314.2 | 328.5 | 331.9 |
| December | 346.7 | 356.8 | 358.9 | 366.2 | 367.8 | 372.4 | 373.3 | 375.3 | 375.5 | 374.6 | 374.0 |

Southern Hemisphere

The shaded "Date" boxes identify the two extremes of the "Date Scale" that occur on the Summer and Winter Solstices.

A number of "Date Scale" configurations are available including the following "Date Line" combinations:

- | | | |
|---------|------------|--------------------|
| a) 1 | c) 1,10,20 | e) 1,5,10,15,20,25 |
| b) 1,15 | d) 1,11,21 | f) 1,6,11,16,21,26 |

Analemmatic Sundial

Latitude: 30.0° N/S

Earliest Sunrise: 4:57 a.m. Latest Sunset: 7:03 p.m.
 Semi-Major Axis (E-W): 1500 mm Semi-Minor Axis (N-S): 750.0 mm
 Sunrise/Sunset Markers: X = ± 1099.3 mm

| Local Time | X | Y | Z | W | Local Time | X | Y | Z | W | | |
|------------|-------|--------|-------|--------|------------|------|------|--------|--------|--------|--------|
| 12:00 | 0.0 | 750.0 | 750.0 | 0.0 | | | | | | | |
| 11:55 | 12:05 | 32.7 | 749.8 | 750.5 | 32.7 | 8:10 | 3:50 | 1265.1 | 403.0 | 1327.7 | 1311.8 |
| 11:50 | 12:10 | 65.4 | 749.3 | 752.1 | 65.4 | 8:05 | 3:55 | 1282.4 | 389.1 | 1340.1 | 1332.2 |
| 11:45 | 12:15 | 98.1 | 748.4 | 754.8 | 98.1 | 8:00 | 4:00 | 1299.0 | 375.0 | 1352.1 | 1352.1 |
| 11:40 | 12:20 | 130.7 | 747.1 | 758.5 | 130.8 | 7:55 | 4:05 | 1315.1 | 360.7 | 1363.7 | 1371.5 |
| 11:35 | 12:25 | 163.3 | 745.5 | 763.2 | 163.4 | 7:50 | 4:10 | 1330.5 | 346.3 | 1374.8 | 1390.4 |
| 11:30 | 12:30 | 195.8 | 743.6 | 768.9 | 195.9 | 7:45 | 4:15 | 1345.3 | 331.7 | 1385.6 | 1408.8 |
| 11:25 | 12:35 | 228.2 | 741.3 | 775.6 | 228.4 | 7:40 | 4:20 | 1359.5 | 317.0 | 1395.9 | 1426.8 |
| 11:20 | 12:40 | 260.5 | 738.6 | 783.2 | 260.7 | 7:35 | 4:25 | 1373.0 | 302.1 | 1405.8 | 1444.2 |
| 11:15 | 12:45 | 292.6 | 735.6 | 791.7 | 293.0 | 7:30 | 4:30 | 1385.8 | 287.0 | 1415.2 | 1461.1 |
| 11:10 | 12:50 | 324.7 | 732.2 | 801.0 | 325.1 | 7:25 | 4:35 | 1398.0 | 271.8 | 1424.2 | 1477.5 |
| 11:05 | 12:55 | 356.5 | 728.5 | 811.1 | 357.2 | 7:20 | 4:40 | 1409.5 | 256.5 | 1432.7 | 1493.4 |
| 11:00 | 1:00 | 388.2 | 724.4 | 821.9 | 389.1 | 7:15 | 4:45 | 1420.4 | 241.1 | 1440.7 | 1508.8 |
| 10:55 | 1:05 | 419.7 | 720.0 | 833.4 | 420.8 | 7:10 | 4:50 | 1430.6 | 225.5 | 1448.2 | 1523.7 |
| 10:50 | 1:10 | 451.1 | 715.3 | 845.6 | 452.4 | 7:05 | 4:55 | 1440.1 | 209.9 | 1455.3 | 1538.0 |
| 10:45 | 1:15 | 482.2 | 710.2 | 858.4 | 483.8 | 7:00 | 5:00 | 1448.9 | 194.1 | 1461.8 | 1551.9 |
| 10:40 | 1:20 | 513.0 | 704.8 | 871.7 | 515.0 | 6:55 | 5:05 | 1457.0 | 178.3 | 1467.9 | 1565.2 |
| 10:35 | 1:25 | 543.7 | 699.0 | 885.5 | 546.0 | 6:50 | 5:10 | 1464.4 | 162.3 | 1473.4 | 1578.0 |
| 10:30 | 1:30 | 574.0 | 692.9 | 899.8 | 576.9 | 6:45 | 5:15 | 1471.2 | 146.3 | 1478.4 | 1590.2 |
| 10:25 | 1:35 | 604.1 | 686.5 | 914.5 | 607.4 | 6:40 | 5:20 | 1477.2 | 130.2 | 1482.9 | 1602.0 |
| 10:20 | 1:40 | 633.9 | 679.7 | 929.5 | 637.8 | 6:35 | 5:25 | 1482.5 | 114.1 | 1486.9 | 1613.2 |
| 10:15 | 1:45 | 663.4 | 672.7 | 944.8 | 667.9 | 6:30 | 5:30 | 1487.2 | 97.9 | 1490.4 | 1623.9 |
| 10:10 | 1:50 | 692.6 | 665.3 | 960.4 | 697.8 | 6:25 | 5:35 | 1491.1 | 81.7 | 1493.3 | 1634.0 |
| 10:05 | 1:55 | 721.5 | 657.5 | 976.2 | 727.4 | 6:20 | 5:40 | 1494.3 | 65.4 | 1495.7 | 1643.7 |
| 10:00 | 2:00 | 750.0 | 649.5 | 992.2 | 756.7 | 6:15 | 5:45 | 1496.8 | 49.1 | 1497.6 | 1652.8 |
| 9:55 | 2:05 | 778.2 | 641.2 | 1008.3 | 785.7 | 6:10 | 5:50 | 1498.6 | 32.7 | 1498.9 | 1661.4 |
| 9:50 | 2:10 | 805.9 | 632.5 | 1024.5 | 814.5 | 6:05 | 5:55 | 1499.6 | 16.4 | 1499.7 | 1669.5 |
| 9:45 | 2:15 | 833.4 | 623.6 | 1040.8 | 842.9 | 6:00 | 6:00 | 1500.0 | 0.0 | 1500.0 | 1677.1 |
| 9:40 | 2:20 | 860.4 | 614.4 | 1057.2 | 871.0 | 5:55 | 6:05 | 1499.6 | -16.4 | 1499.7 | 1684.1 |
| 9:35 | 2:25 | 887.0 | 604.8 | 1073.6 | 898.8 | 5:50 | 6:10 | 1498.6 | -32.7 | 1498.9 | 1690.7 |
| 9:30 | 2:30 | 913.1 | 595.0 | 1089.9 | 926.2 | 5:45 | 6:15 | 1496.8 | -49.1 | 1497.6 | 1696.7 |
| 9:25 | 2:35 | 938.9 | 584.9 | 1106.2 | 953.3 | 5:40 | 6:20 | 1494.3 | -65.4 | 1495.7 | 1702.3 |
| 9:20 | 2:40 | 964.2 | 574.5 | 1122.4 | 980.0 | 5:35 | 6:25 | 1491.1 | -81.7 | 1493.3 | 1707.3 |
| 9:15 | 2:45 | 989.0 | 563.9 | 1138.5 | 1006.4 | 5:30 | 6:30 | 1487.2 | -97.9 | 1490.4 | 1711.9 |
| 9:10 | 2:50 | 1013.4 | 553.0 | 1154.4 | 1032.4 | 5:25 | 6:35 | 1482.5 | -114.1 | 1486.9 | 1716.0 |
| 9:05 | 2:55 | 1037.3 | 541.8 | 1170.2 | 1058.0 | 5:20 | 6:40 | 1477.2 | -130.2 | 1482.9 | 1719.6 |
| 9:00 | 3:00 | 1060.7 | 530.3 | 1185.9 | 1083.2 | 5:15 | 6:45 | 1471.2 | -146.3 | 1478.4 | 1722.7 |
| 8:55 | 3:05 | 1083.5 | 518.6 | 1201.3 | 1108.0 | 5:10 | 6:50 | 1464.4 | -162.3 | 1473.4 | 1725.4 |
| 8:50 | 3:10 | 1105.9 | 506.7 | 1216.5 | 1132.4 | 5:05 | 6:55 | 1457.0 | -178.3 | 1467.9 | 1727.6 |
| 8:45 | 3:15 | 1127.8 | 494.5 | 1231.4 | 1156.3 | 5:00 | 7:00 | 1448.9 | -194.1 | 1461.8 | 1729.3 |
| 8:40 | 3:20 | 1149.1 | 482.1 | 1246.1 | 1179.9 | 4:55 | 7:05 | 1440.1 | -209.9 | 1455.3 | 1730.7 |
| 8:35 | 3:25 | 1169.8 | 469.4 | 1260.5 | 1203.0 | 4:50 | 7:10 | 1430.6 | -225.5 | 1448.2 | 1731.5 |
| 8:30 | 3:30 | 1190.0 | 456.6 | 1274.6 | 1225.7 | 4:45 | 7:15 | 1420.4 | -241.1 | 1440.7 | 1732.0 |
| 8:25 | 3:35 | 1209.7 | 443.5 | 1288.4 | 1247.9 | | | | | | |
| 8:20 | 3:40 | 1228.7 | 430.2 | 1301.9 | 1269.7 | | | | | | |
| 8:15 | 3:45 | 1247.2 | 416.7 | 1315.0 | 1291.0 | | | | | | |

Analematic Sundial

Latitude: 30.0° N/S

Date Scale

Semi-Major Axis (E-W): 1500 mm Semi-Minor Axis (N-S): 750.0 mm

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | -551.1 | -540.7 | -537.5 | -523.3 | -519.1 | -501.3 | -496.3 | -475.1 | -469.5 | -445.5 | -439.2 |
| February | -398.6 | -369.6 | -362.0 | -331.1 | -323.4 | -291.1 | -282.8 | -249.4 | -241.0 | -206.7 | -197.9 |
| March | -171.7 | -136.5 | -127.6 | -92.0 | -83.1 | -47.2 | -38.3 | -2.3 | 6.6 | 42.4 | 51.3 |
| April | 104.5 | 139.5 | 148.2 | 182.6 | 191.1 | 224.8 | 233.0 | 265.9 | 274.0 | 305.6 | 313.3 |
| May | 351.0 | 379.9 | 386.8 | 413.6 | 420.1 | 444.8 | 450.6 | 473.1 | 478.5 | 498.1 | 502.6 |
| June | 527.0 | 539.7 | 542.6 | 551.9 | 554.1 | 560.0 | 560.8 | 563.0 | 563.2 | 559.2 | 561.1 |
| July | 554.1 | 545.3 | 542.6 | 530.7 | 527.2 | 511.7 | 507.5 | 489.1 | 484.1 | 463.1 | 457.5 |
| August | 421.6 | 395.4 | 388.7 | 360.7 | 353.7 | 324.1 | 316.4 | 285.6 | 277.8 | 245.7 | 237.5 |
| September | 187.9 | 154.0 | 145.5 | 110.9 | 102.2 | 67.4 | 58.8 | 23.6 | 14.7 | -20.6 | -29.5 |
| October | -73.5 | -108.9 | -117.5 | -152.6 | -161.1 | -195.8 | -204.4 | -238.2 | -246.6 | -279.7 | -287.8 |
| November | -335.2 | -365.6 | -373.0 | -401.6 | -408.6 | -435.2 | -441.5 | -465.6 | -471.3 | -492.7 | -497.9 |
| December | -520.1 | -535.2 | -538.3 | -549.3 | -551.7 | -558.6 | -560.0 | -563.0 | -563.2 | -561.9 | -561.1 |

Northern Hemisphere

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | 551.1 | 540.7 | 537.5 | 523.3 | 519.1 | 501.3 | 496.3 | 475.1 | 469.5 | 445.5 | 439.2 |
| February | 398.6 | 369.6 | 362.0 | 331.1 | 323.4 | 291.1 | 282.8 | 249.4 | 241.0 | 206.7 | 197.9 |
| March | 171.7 | 136.5 | 127.6 | 92.0 | 83.1 | 47.2 | 38.3 | 2.3 | -6.6 | -42.4 | -51.3 |
| April | -104.5 | -139.5 | -148.2 | -182.6 | -191.1 | -224.8 | -233.0 | -265.9 | -274.0 | -305.6 | -313.3 |
| May | -351.0 | -379.9 | -386.8 | -413.6 | -420.1 | -444.8 | -450.6 | -473.1 | -478.5 | -498.1 | -502.6 |
| June | -527.0 | -539.7 | -542.6 | -551.9 | -554.1 | -560.0 | -560.8 | -563.0 | -563.2 | -559.2 | -561.1 |
| July | -554.1 | -545.3 | -542.6 | -530.7 | -527.2 | -511.7 | -507.5 | -489.1 | -484.1 | -463.1 | -457.5 |
| August | -421.6 | -395.4 | -388.7 | -360.7 | -353.7 | -324.1 | -316.4 | -285.6 | -277.8 | -245.7 | -237.5 |
| September | -187.9 | -154.0 | -145.5 | -110.9 | -102.2 | -67.4 | -58.8 | -23.6 | -14.7 | 20.6 | 29.5 |
| October | 73.5 | 108.9 | 117.5 | 152.6 | 161.1 | 195.8 | 204.4 | 238.2 | 246.6 | 279.7 | 287.8 |
| November | 335.2 | 365.6 | 373.0 | 401.6 | 408.6 | 435.2 | 441.5 | 465.6 | 471.3 | 492.7 | 497.9 |
| December | 520.1 | 535.2 | 538.3 | 549.3 | 551.7 | 558.6 | 560.0 | 563.0 | 563.2 | 561.9 | 561.1 |

Southern Hemisphere

The shaded "Date" boxes identify the two extremes of the "Date Scale" that occur on the Summer and Winter Solstices.

A number of "Date Scale" configurations are available including the following "Date Line" combinations:

- | | | |
|---------|------------|--------------------|
| a) 1 | c) 1,10,20 | e) 1,5,10,15,20,25 |
| b) 1,15 | d) 1,11,21 | f) 1,6,11,16,21,26 |

Analemmatic Sundial

Latitude: 30.0° N/S

Earliest Sunrise: 4:57 a.m. Latest Sunset: 7:03 p.m.
 Semi-Major Axis (E-W): 2000 mm Semi-Minor Axis (N-S): 1000.0 mm
 Sunrise/Sunset Markers: X = ± 1465.8 mm

| Local Time | X | Y | Z | W | Local Time | X | Y | Z | W | | |
|------------|-------|--------|--------|--------|------------|------|------|--------|--------|--------|--------|
| 12:00 | 0.0 | 1000.0 | 1000.0 | 0.0 | | | | | | | |
| 11:55 | 12:05 | 43.6 | 999.8 | 1000.7 | 43.6 | 8:10 | 3:50 | 1686.8 | 537.3 | 1770.3 | 1749.1 |
| 11:50 | 12:10 | 87.2 | 999.0 | 1002.8 | 87.2 | 8:05 | 3:55 | 1709.8 | 518.8 | 1786.8 | 1776.3 |
| 11:45 | 12:15 | 130.8 | 997.9 | 1006.4 | 130.8 | 8:00 | 4:00 | 1732.1 | 500.0 | 1802.8 | 1802.8 |
| 11:40 | 12:20 | 174.3 | 996.2 | 1011.3 | 174.4 | 7:55 | 4:05 | 1753.5 | 481.0 | 1818.2 | 1828.7 |
| 11:35 | 12:25 | 217.7 | 994.1 | 1017.6 | 217.8 | 7:50 | 4:10 | 1774.0 | 461.7 | 1833.1 | 1853.9 |
| 11:30 | 12:30 | 261.1 | 991.4 | 1025.2 | 261.2 | 7:45 | 4:15 | 1793.7 | 442.3 | 1847.5 | 1878.4 |
| 11:25 | 12:35 | 304.2 | 988.4 | 1034.1 | 304.5 | 7:40 | 4:20 | 1812.6 | 422.6 | 1861.2 | 1902.4 |
| 11:20 | 12:40 | 347.3 | 984.8 | 1044.3 | 347.6 | 7:35 | 4:25 | 1830.6 | 402.7 | 1874.4 | 1925.6 |
| 11:15 | 12:45 | 390.2 | 980.8 | 1055.5 | 390.7 | 7:30 | 4:30 | 1847.8 | 382.7 | 1887.0 | 1948.2 |
| 11:10 | 12:50 | 432.9 | 976.3 | 1068.0 | 433.5 | 7:25 | 4:35 | 1864.0 | 362.4 | 1898.9 | 1970.0 |
| 11:05 | 12:55 | 475.4 | 971.3 | 1081.4 | 476.2 | 7:20 | 4:40 | 1879.4 | 342.0 | 1910.3 | 1991.2 |
| 11:00 | 1:00 | 517.6 | 965.9 | 1095.9 | 518.8 | 7:15 | 4:45 | 1893.9 | 321.4 | 1920.9 | 2011.8 |
| 10:55 | 1:05 | 559.7 | 960.0 | 1111.3 | 561.1 | 7:10 | 4:50 | 1907.4 | 300.7 | 1931.0 | 2031.6 |
| 10:50 | 1:10 | 601.4 | 953.7 | 1127.5 | 603.2 | 7:05 | 4:55 | 1920.1 | 279.8 | 1940.4 | 2050.7 |
| 10:45 | 1:15 | 642.9 | 946.9 | 1144.5 | 645.1 | 7:00 | 5:00 | 1931.9 | 258.8 | 1949.1 | 2069.2 |
| 10:40 | 1:20 | 684.0 | 939.7 | 1162.3 | 686.7 | 6:55 | 5:05 | 1942.7 | 237.7 | 1957.2 | 2086.9 |
| 10:35 | 1:25 | 724.9 | 932.0 | 1180.7 | 728.1 | 6:50 | 5:10 | 1952.6 | 216.4 | 1964.6 | 2103.9 |
| 10:30 | 1:30 | 765.4 | 923.9 | 1199.7 | 769.1 | 6:45 | 5:15 | 1961.6 | 195.1 | 1971.2 | 2120.3 |
| 10:25 | 1:35 | 805.5 | 915.3 | 1219.3 | 809.9 | 6:40 | 5:20 | 1969.6 | 173.6 | 1977.3 | 2135.9 |
| 10:20 | 1:40 | 845.2 | 906.3 | 1239.3 | 850.4 | 6:35 | 5:25 | 1976.7 | 152.1 | 1982.6 | 2150.9 |
| 10:15 | 1:45 | 884.6 | 896.9 | 1259.7 | 890.6 | 6:30 | 5:30 | 1982.9 | 130.5 | 1987.2 | 2165.1 |
| 10:10 | 1:50 | 923.5 | 887.0 | 1280.5 | 930.4 | 6:25 | 5:35 | 1988.1 | 108.9 | 1991.1 | 2178.7 |
| 10:05 | 1:55 | 962.0 | 876.7 | 1301.6 | 969.8 | 6:20 | 5:40 | 1992.4 | 87.2 | 1994.3 | 2191.6 |
| 10:00 | 2:00 | 1000.0 | 866.0 | 1322.9 | 1008.9 | 6:15 | 5:45 | 1995.7 | 65.4 | 1996.8 | 2203.7 |
| 9:55 | 2:05 | 1037.5 | 854.9 | 1344.4 | 1047.6 | 6:10 | 5:50 | 1998.1 | 43.6 | 1998.6 | 2215.2 |
| 9:50 | 2:10 | 1074.6 | 843.4 | 1366.0 | 1086.0 | 6:05 | 5:55 | 1999.5 | 21.8 | 1999.6 | 2226.0 |
| 9:45 | 2:15 | 1111.1 | 831.5 | 1387.8 | 1123.8 | 6:00 | 6:00 | 2000.0 | 0.0 | 2000.0 | 2236.1 |
| 9:40 | 2:20 | 1147.2 | 819.2 | 1409.6 | 1161.3 | 5:55 | 6:05 | 1999.5 | -21.8 | 1999.6 | 2245.5 |
| 9:35 | 2:25 | 1182.6 | 806.4 | 1431.4 | 1198.4 | 5:50 | 6:10 | 1998.1 | -43.6 | 1998.6 | 2254.2 |
| 9:30 | 2:30 | 1217.5 | 793.4 | 1453.2 | 1234.9 | 5:45 | 6:15 | 1995.7 | -65.4 | 1996.8 | 2262.3 |
| 9:25 | 2:35 | 1251.8 | 779.9 | 1474.9 | 1271.1 | 5:40 | 6:20 | 1992.4 | -87.2 | 1994.3 | 2269.7 |
| 9:20 | 2:40 | 1285.6 | 766.0 | 1496.5 | 1306.7 | 5:35 | 6:25 | 1988.1 | -108.9 | 1991.1 | 2276.4 |
| 9:15 | 2:45 | 1318.7 | 751.8 | 1518.0 | 1341.8 | 5:30 | 6:30 | 1982.9 | -130.5 | 1987.2 | 2282.5 |
| 9:10 | 2:50 | 1351.2 | 737.3 | 1539.2 | 1376.5 | 5:25 | 6:35 | 1976.7 | -152.1 | 1982.6 | 2288.0 |
| 9:05 | 2:55 | 1383.0 | 722.4 | 1560.3 | 1410.6 | 5:20 | 6:40 | 1969.6 | -173.6 | 1977.3 | 2292.8 |
| 9:00 | 3:00 | 1414.2 | 707.1 | 1581.1 | 1444.2 | 5:15 | 6:45 | 1961.6 | -195.1 | 1971.2 | 2297.0 |
| 8:55 | 3:05 | 1444.7 | 691.5 | 1601.7 | 1477.3 | 5:10 | 6:50 | 1952.6 | -216.4 | 1964.6 | 2300.5 |
| 8:50 | 3:10 | 1474.6 | 675.6 | 1622.0 | 1509.8 | 5:05 | 6:55 | 1942.7 | -237.7 | 1957.2 | 2303.5 |
| 8:45 | 3:15 | 1503.7 | 659.3 | 1641.9 | 1541.8 | 5:00 | 7:00 | 1931.9 | -258.8 | 1949.1 | 2305.8 |
| 8:40 | 3:20 | 1532.1 | 642.8 | 1661.5 | 1573.2 | 4:55 | 7:05 | 1920.1 | -279.8 | 1940.4 | 2307.5 |
| 8:35 | 3:25 | 1559.8 | 625.9 | 1680.7 | 1604.0 | 4:50 | 7:10 | 1907.4 | -300.7 | 1931.0 | 2308.7 |
| 8:30 | 3:30 | 1586.7 | 608.8 | 1699.5 | 1634.2 | 4:45 | 7:15 | 1893.9 | -321.4 | 1920.9 | 2309.3 |
| 8:25 | 3:35 | 1612.9 | 591.3 | 1717.9 | 1663.9 | | | | | | |
| 8:20 | 3:40 | 1638.3 | 573.6 | 1735.8 | 1692.9 | | | | | | |
| 8:15 | 3:45 | 1662.9 | 555.6 | 1753.3 | 1721.3 | | | | | | |

Analematic Sundial

Latitude: 30.0° N/S

Date Scale

Semi-Major Axis (E-W): 2000 mm Semi-Minor Axis (N-S): 1000.0 mm

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | -734.9 | -721.0 | -716.7 | -697.7 | -692.1 | -668.3 | -661.8 | -633.5 | -626.0 | -594.0 | -585.6 |
| February | -531.5 | -492.7 | -482.6 | -441.5 | -431.2 | -388.1 | -377.0 | -332.6 | -321.3 | -275.6 | -263.8 |
| March | -229.0 | -182.0 | -170.1 | -122.6 | -110.8 | -62.9 | -51.1 | -3.0 | 8.8 | 56.6 | 68.4 |
| April | 139.4 | 186.0 | 197.6 | 243.4 | 254.8 | 299.8 | 310.7 | 354.6 | 365.3 | 407.5 | 417.7 |
| May | 468.0 | 506.5 | 515.7 | 551.4 | 560.1 | 593.0 | 600.8 | 630.8 | 638.0 | 664.2 | 670.1 |
| June | 702.6 | 719.6 | 723.5 | 735.9 | 738.8 | 746.7 | 747.7 | 750.6 | 751.0 | 745.6 | 748.1 |
| July | 738.8 | 727.0 | 723.5 | 707.5 | 703.0 | 682.3 | 676.7 | 652.1 | 645.5 | 617.4 | 610.0 |
| August | 562.1 | 527.2 | 518.3 | 481.0 | 471.6 | 432.2 | 421.9 | 380.8 | 370.4 | 327.6 | 316.6 |
| September | 250.5 | 205.3 | 194.0 | 147.9 | 136.3 | 89.9 | 78.3 | 31.4 | 19.7 | -27.5 | -39.3 |
| October | -98.0 | -145.1 | -156.7 | -203.5 | -214.8 | -261.0 | -272.5 | -317.6 | -328.8 | -372.9 | -383.7 |
| November | -447.0 | -487.5 | -497.3 | -535.5 | -544.8 | -580.2 | -588.6 | -620.8 | -628.4 | -656.9 | -663.8 |
| December | -693.5 | -713.5 | -717.8 | -732.4 | -735.6 | -744.9 | -746.7 | -750.6 | -751.0 | -749.2 | -748.1 |

Northern Hemisphere

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | 734.9 | 721.0 | 716.7 | 697.7 | 692.1 | 668.3 | 661.8 | 633.5 | 626.0 | 594.0 | 585.6 |
| February | 531.5 | 492.7 | 482.6 | 441.5 | 431.2 | 388.1 | 377.0 | 332.6 | 321.3 | 275.6 | 263.8 |
| March | 229.0 | 182.0 | 170.1 | 122.6 | 110.8 | 62.9 | 51.1 | 3.0 | -8.8 | -56.6 | -68.4 |
| April | -139.4 | -186.0 | -197.6 | -243.4 | -254.8 | -299.8 | -310.7 | -354.6 | -365.3 | -407.5 | -417.7 |
| May | -468.0 | -506.5 | -515.7 | -551.4 | -560.1 | -593.0 | -600.8 | -630.8 | -638.0 | -664.2 | -670.1 |
| June | -702.6 | -719.6 | -723.5 | -735.9 | -738.8 | -746.7 | -747.7 | -750.6 | -751.0 | -745.6 | -748.1 |
| July | -738.8 | -727.0 | -723.5 | -707.5 | -703.0 | -682.3 | -676.7 | -652.1 | -645.5 | -617.4 | -610.0 |
| August | -562.1 | -527.2 | -518.3 | -481.0 | -471.6 | -432.2 | -421.9 | -380.8 | -370.4 | -327.6 | -316.6 |
| September | -250.5 | -205.3 | -194.0 | -147.9 | -136.3 | -89.9 | -78.3 | -31.4 | -19.7 | 27.5 | 39.3 |
| October | 98.0 | 145.1 | 156.7 | 203.5 | 214.8 | 261.0 | 272.5 | 317.6 | 328.8 | 372.9 | 383.7 |
| November | 447.0 | 487.5 | 497.3 | 535.5 | 544.8 | 580.2 | 588.6 | 620.8 | 628.4 | 656.9 | 663.8 |
| December | 693.5 | 713.5 | 717.8 | 732.4 | 735.6 | 744.9 | 746.7 | 750.6 | 751.0 | 749.2 | 748.1 |

Southern Hemisphere

The shaded "Date" boxes identify the two extremes of the "Date Scale" that occur on the Summer and Winter Solstices.

A number of "Date Scale" configurations are available including the following "Date Line" combinations:

- | | | |
|---------|------------|--------------------|
| a) 1 | c) 1,10,20 | e) 1,5,10,15,20,25 |
| b) 1,15 | d) 1,11,21 | f) 1,6,11,16,21,26 |

Analemmatic Sundial

Latitude: 30.0° N/S

Earliest Sunrise: 4:57 a.m. Latest Sunset: 7:03 p.m.
 Semi-Major Axis (E-W): 2500 mm Semi-Minor Axis (N-S): 1250.0 mm
 Sunrise/Sunset Markers: X = ± 1832.2 mm

| Local Time | X | Y | Z | W | Local Time | X | Y | Z | W | | |
|------------|-------|--------|--------|--------|------------|------|------|--------|--------|--------|--------|
| 12:00 | 0.0 | 1250.0 | 1250.0 | 0.0 | | | | | | | |
| 11:55 | 12:05 | 54.5 | 1249.7 | 1250.9 | 54.5 | 8:10 | 3:50 | 2108.5 | 671.6 | 2212.9 | 2186.4 |
| 11:50 | 12:10 | 109.0 | 1248.8 | 1253.6 | 109.1 | 8:05 | 3:55 | 2137.3 | 648.5 | 2233.5 | 2220.3 |
| 11:45 | 12:15 | 163.5 | 1247.3 | 1258.0 | 163.5 | 8:00 | 4:00 | 2165.1 | 625.0 | 2253.5 | 2253.5 |
| 11:40 | 12:20 | 217.9 | 1245.2 | 1264.2 | 217.9 | 7:55 | 4:05 | 2191.8 | 601.2 | 2272.8 | 2285.8 |
| 11:35 | 12:25 | 272.2 | 1242.6 | 1272.0 | 272.3 | 7:50 | 4:10 | 2217.5 | 577.2 | 2291.4 | 2317.3 |
| 11:30 | 12:30 | 326.3 | 1239.3 | 1281.5 | 326.5 | 7:45 | 4:15 | 2242.2 | 552.9 | 2309.3 | 2348.1 |
| 11:25 | 12:35 | 380.3 | 1235.5 | 1292.7 | 380.6 | 7:40 | 4:20 | 2265.8 | 528.3 | 2326.5 | 2377.9 |
| 11:20 | 12:40 | 434.1 | 1231.0 | 1305.3 | 434.5 | 7:35 | 4:25 | 2288.3 | 503.4 | 2343.0 | 2407.0 |
| 11:15 | 12:45 | 487.7 | 1226.0 | 1319.4 | 488.3 | 7:30 | 4:30 | 2309.7 | 478.4 | 2358.7 | 2435.2 |
| 11:10 | 12:50 | 541.1 | 1220.4 | 1334.9 | 541.9 | 7:25 | 4:35 | 2330.0 | 453.0 | 2373.7 | 2462.5 |
| 11:05 | 12:55 | 594.2 | 1214.2 | 1351.8 | 595.3 | 7:20 | 4:40 | 2349.2 | 427.5 | 2387.8 | 2489.0 |
| 11:00 | 1:00 | 647.0 | 1207.4 | 1369.9 | 648.4 | 7:15 | 4:45 | 2367.3 | 401.8 | 2401.2 | 2514.7 |
| 10:55 | 1:05 | 699.6 | 1200.1 | 1389.1 | 701.4 | 7:10 | 4:50 | 2384.3 | 375.9 | 2413.7 | 2539.5 |
| 10:50 | 1:10 | 751.8 | 1192.1 | 1409.4 | 754.0 | 7:05 | 4:55 | 2400.1 | 349.8 | 2425.5 | 2563.4 |
| 10:45 | 1:15 | 803.6 | 1183.7 | 1430.7 | 806.3 | 7:00 | 5:00 | 2414.8 | 323.5 | 2436.4 | 2586.4 |
| 10:40 | 1:20 | 855.1 | 1174.6 | 1452.9 | 858.4 | 6:55 | 5:05 | 2428.4 | 297.1 | 2446.5 | 2608.6 |
| 10:35 | 1:25 | 906.1 | 1165.0 | 1475.9 | 910.1 | 6:50 | 5:10 | 2440.7 | 270.5 | 2455.7 | 2629.9 |
| 10:30 | 1:30 | 956.7 | 1154.8 | 1499.7 | 961.4 | 6:45 | 5:15 | 2452.0 | 243.9 | 2464.1 | 2650.4 |
| 10:25 | 1:35 | 1006.9 | 1144.1 | 1524.1 | 1012.4 | 6:40 | 5:20 | 2462.0 | 217.1 | 2471.6 | 2669.9 |
| 10:20 | 1:40 | 1056.5 | 1132.9 | 1549.1 | 1063.0 | 6:35 | 5:25 | 2470.9 | 190.2 | 2478.2 | 2688.6 |
| 10:15 | 1:45 | 1105.7 | 1121.1 | 1574.6 | 1113.2 | 6:30 | 5:30 | 2478.6 | 163.2 | 2484.0 | 2706.4 |
| 10:10 | 1:50 | 1154.4 | 1108.8 | 1600.6 | 1163.0 | 6:25 | 5:35 | 2485.1 | 136.1 | 2488.9 | 2723.4 |
| 10:05 | 1:55 | 1202.5 | 1095.9 | 1626.9 | 1212.3 | 6:20 | 5:40 | 2490.5 | 108.9 | 2492.9 | 2739.4 |
| 10:00 | 2:00 | 1250.0 | 1082.5 | 1653.6 | 1261.2 | 6:15 | 5:45 | 2494.6 | 81.8 | 2496.0 | 2754.6 |
| 9:55 | 2:05 | 1296.9 | 1068.6 | 1680.5 | 1309.6 | 6:10 | 5:50 | 2497.6 | 54.5 | 2498.2 | 2769.0 |
| 9:50 | 2:10 | 1343.2 | 1054.2 | 1707.6 | 1357.4 | 6:05 | 5:55 | 2499.4 | 27.3 | 2499.6 | 2782.5 |
| 9:45 | 2:15 | 1388.9 | 1039.3 | 1734.7 | 1404.8 | 6:00 | 6:00 | 2500.0 | 0.0 | 2500.0 | 2795.1 |
| 9:40 | 2:20 | 1433.9 | 1023.9 | 1762.0 | 1451.7 | 5:55 | 6:05 | 2499.4 | -27.3 | 2499.6 | 2806.9 |
| 9:35 | 2:25 | 1478.3 | 1008.1 | 1789.3 | 1497.9 | 5:50 | 6:10 | 2497.6 | -54.5 | 2498.2 | 2817.8 |
| 9:30 | 2:30 | 1521.9 | 991.7 | 1816.5 | 1543.7 | 5:45 | 6:15 | 2494.6 | -81.8 | 2496.0 | 2827.9 |
| 9:25 | 2:35 | 1564.8 | 974.9 | 1843.6 | 1588.8 | 5:40 | 6:20 | 2490.5 | -108.9 | 2492.9 | 2837.1 |
| 9:20 | 2:40 | 1607.0 | 957.6 | 1870.6 | 1633.4 | 5:35 | 6:25 | 2485.1 | -136.1 | 2488.9 | 2845.5 |
| 9:15 | 2:45 | 1648.4 | 939.8 | 1897.5 | 1677.3 | 5:30 | 6:30 | 2478.6 | -163.2 | 2484.0 | 2853.2 |
| 9:10 | 2:50 | 1689.0 | 921.6 | 1924.1 | 1720.6 | 5:25 | 6:35 | 2470.9 | -190.2 | 2478.2 | 2860.0 |
| 9:05 | 2:55 | 1728.8 | 903.0 | 1950.4 | 1763.3 | 5:20 | 6:40 | 2462.0 | -217.1 | 2471.6 | 2866.0 |
| 9:00 | 3:00 | 1767.8 | 883.9 | 1976.4 | 1805.3 | 5:15 | 6:45 | 2452.0 | -243.9 | 2464.1 | 2871.2 |
| 8:55 | 3:05 | 1805.9 | 864.4 | 2002.1 | 1846.6 | 5:10 | 6:50 | 2440.7 | -270.5 | 2455.7 | 2875.6 |
| 8:50 | 3:10 | 1843.2 | 844.5 | 2027.4 | 1887.3 | 5:05 | 6:55 | 2428.4 | -297.1 | 2446.5 | 2879.3 |
| 8:45 | 3:15 | 1879.6 | 824.2 | 2052.4 | 1927.2 | 5:00 | 7:00 | 2414.8 | -323.5 | 2436.4 | 2882.2 |
| 8:40 | 3:20 | 1915.1 | 803.5 | 2076.8 | 1966.5 | 4:55 | 7:05 | 2400.1 | -349.8 | 2425.5 | 2884.4 |
| 8:35 | 3:25 | 1949.7 | 782.4 | 2100.8 | 2005.0 | 4:50 | 7:10 | 2384.3 | -375.9 | 2413.7 | 2885.9 |
| 8:30 | 3:30 | 1983.4 | 761.0 | 2124.3 | 2042.8 | 4:45 | 7:15 | 2367.3 | -401.8 | 2401.2 | 2886.6 |
| 8:25 | 3:35 | 2016.1 | 739.1 | 2147.3 | 2079.8 | | | | | | |
| 8:20 | 3:40 | 2047.9 | 717.0 | 2169.8 | 2116.1 | | | | | | |
| 8:15 | 3:45 | 2078.7 | 694.5 | 2191.6 | 2151.6 | | | | | | |

Analematic Sundial

Latitude: 30.0° N/S

Date Scale

Semi-Major Axis (E-W): 2500 mm Semi-Minor Axis (N-S): 1250.0 mm

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | -918.6 | -901.2 | -895.9 | -872.1 | -865.1 | -835.4 | -827.2 | -791.9 | -782.5 | -742.5 | -732.0 |
| February | -664.4 | -615.9 | -603.3 | -551.9 | -539.0 | -485.1 | -471.3 | -415.7 | -401.7 | -344.5 | -329.8 |
| March | -286.2 | -227.6 | -212.7 | -153.3 | -138.5 | -78.6 | -63.9 | -3.8 | 11.0 | 70.7 | 85.4 |
| April | 174.2 | 232.5 | 247.1 | 304.3 | 318.6 | 374.7 | 388.4 | 443.2 | 456.6 | 509.4 | 522.2 |
| May | 585.0 | 633.1 | 644.6 | 689.3 | 700.1 | 741.3 | 751.0 | 788.4 | 797.4 | 830.2 | 837.6 |
| June | 878.3 | 899.5 | 904.3 | 919.9 | 923.5 | 933.3 | 934.7 | 938.3 | 938.7 | 932.0 | 935.1 |
| July | 923.5 | 908.8 | 904.3 | 884.4 | 878.7 | 852.8 | 845.9 | 815.1 | 806.9 | 771.8 | 762.4 |
| August | 702.6 | 659.0 | 647.9 | 601.2 | 589.5 | 540.2 | 527.4 | 476.0 | 463.0 | 409.5 | 395.8 |
| September | 313.1 | 256.6 | 242.5 | 184.9 | 170.4 | 112.3 | 97.9 | 39.3 | 24.6 | -34.4 | -49.1 |
| October | -122.6 | -181.4 | -195.9 | -254.3 | -268.5 | -326.3 | -340.6 | -397.0 | -411.1 | -466.1 | -479.6 |
| November | -558.7 | -609.4 | -621.6 | -669.4 | -681.0 | -725.3 | -735.8 | -776.1 | -785.5 | -821.1 | -829.8 |
| December | -866.8 | -891.9 | -897.2 | -915.4 | -919.5 | -931.1 | -933.3 | -938.3 | -938.7 | -936.5 | -935.1 |

Northern Hemisphere

| Month | Date | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 1 | 5 | 6 | 10 | 11 | 15 | 16 | 20 | 21 | 25 | 26 |
| January | 918.6 | 901.2 | 895.9 | 872.1 | 865.1 | 835.4 | 827.2 | 791.9 | 782.5 | 742.5 | 732.0 |
| February | 664.4 | 615.9 | 603.3 | 551.9 | 539.0 | 485.1 | 471.3 | 415.7 | 401.7 | 344.5 | 329.8 |
| March | 286.2 | 227.6 | 212.7 | 153.3 | 138.5 | 78.6 | 63.9 | 3.8 | -11.0 | -70.7 | -85.4 |
| April | -174.2 | -232.5 | -247.1 | -304.3 | -318.6 | -374.7 | -388.4 | -443.2 | -456.6 | -509.4 | -522.2 |
| May | -585.0 | -633.1 | -644.6 | -689.3 | -700.1 | -741.3 | -751.0 | -788.4 | -797.4 | -830.2 | -837.6 |
| June | -878.3 | -899.5 | -904.3 | -919.9 | -923.5 | -933.3 | -934.7 | -938.3 | -938.7 | -932.0 | -935.1 |
| July | -923.5 | -908.8 | -904.3 | -884.4 | -878.7 | -852.8 | -845.9 | -815.1 | -806.9 | -771.8 | -762.4 |
| August | -702.6 | -659.0 | -647.9 | -601.2 | -589.5 | -540.2 | -527.4 | -476.0 | -463.0 | -409.5 | -395.8 |
| September | -313.1 | -256.6 | -242.5 | -184.9 | -170.4 | -112.3 | -97.9 | -39.3 | -24.6 | 34.4 | 49.1 |
| October | 122.6 | 181.4 | 195.9 | 254.3 | 268.5 | 326.3 | 340.6 | 397.0 | 411.1 | 466.1 | 479.6 |
| November | 558.7 | 609.4 | 621.6 | 669.4 | 681.0 | 725.3 | 735.8 | 776.1 | 785.5 | 821.1 | 829.8 |
| December | 866.8 | 891.9 | 897.2 | 915.4 | 919.5 | 931.1 | 933.3 | 938.3 | 938.7 | 936.5 | 935.1 |

Southern Hemisphere

The shaded "Date" boxes identify the two extremes of the "Date Scale" that occur on the Summer and Winter Solstices.

A number of "Date Scale" configurations are available including the following "Date Line" combinations:

- | | | |
|---------|------------|--------------------|
| a) 1 | c) 1,10,20 | e) 1,5,10,15,20,25 |
| b) 1,15 | d) 1,11,21 | f) 1,6,11,16,21,26 |