

Analemmatic Sundial

Latitude: 26.5° N/S

Earliest Sunrise: 5:06 a.m.    Latest Sunset: 6:54 p.m.  
 Semi-Major Axis (E-W): 1000 mm    Semi-Minor Axis (N-S): 446.2 mm  
 Sunrise/Sunset Markers: X = ± 787.3 mm

Local Time	X	Y	Z	W	Local Time	X	Y	Z	W		
12:00	0.0	446.2	446.2	0.0							
11:55	12:05	21.8	446.1	446.6	21.8	8:25	3:35	806.4	263.8	848.5	826.8
11:50	12:10	43.6	445.8	447.9	43.6	8:20	3:40	819.2	255.9	858.2	841.0
11:45	12:15	65.4	445.2	450.0	65.4	8:15	3:45	831.5	247.9	867.6	854.8
11:40	12:20	87.2	444.5	453.0	87.2	8:10	3:50	843.4	239.7	876.8	868.3
11:35	12:25	108.9	443.5	456.7	108.9	8:05	3:55	854.9	231.5	885.7	881.5
11:30	12:30	130.5	442.4	461.2	130.6	8:00	4:00	866.0	223.1	894.3	894.3
11:25	12:35	152.1	441.0	466.5	152.2	7:55	4:05	876.7	214.6	902.6	906.8
11:20	12:40	173.6	439.4	472.5	173.8	7:50	4:10	887.0	206.0	910.6	918.9
11:15	12:45	195.1	437.6	479.1	195.3	7:45	4:15	896.9	197.3	918.3	930.8
11:10	12:50	216.4	435.6	486.4	216.7	7:40	4:20	906.3	188.6	925.7	942.2
11:05	12:55	237.7	433.4	494.3	238.0	7:35	4:25	915.3	179.7	932.8	953.3
11:00	1:00	258.8	431.0	502.7	259.3	7:30	4:30	923.9	170.8	939.5	964.1
10:55	1:05	279.8	428.4	511.7	280.4	7:25	4:35	932.0	161.7	945.9	974.5
10:50	1:10	300.7	425.5	521.1	301.4	7:20	4:40	939.7	152.6	952.0	984.5
10:45	1:15	321.4	422.5	530.9	322.3	7:15	4:45	946.9	143.4	957.7	994.2
10:40	1:20	342.0	419.3	541.1	343.1	7:10	4:50	953.7	134.2	963.1	1003.5
10:35	1:25	362.4	415.9	551.6	363.7	7:05	4:55	960.0	124.9	968.1	1012.4
10:30	1:30	382.7	412.2	562.5	384.2	7:00	5:00	965.9	115.5	972.8	1021.0
10:25	1:35	402.7	408.4	573.6	404.5	6:55	5:05	971.3	106.1	977.1	1029.2
10:20	1:40	422.6	404.4	584.9	424.7	6:50	5:10	976.3	96.6	981.1	1037.0
10:15	1:45	442.3	400.2	596.5	444.7	6:45	5:15	980.8	87.0	984.6	1044.5
10:10	1:50	461.7	395.8	608.2	464.5	6:40	5:20	984.8	77.5	987.9	1051.6
10:05	1:55	481.0	391.2	620.0	484.1	6:35	5:25	988.4	67.9	990.7	1058.3
10:00	2:00	500.0	386.4	631.9	503.6	6:30	5:30	991.4	58.2	993.2	1064.6
9:55	2:05	518.8	381.5	643.9	522.8	6:25	5:35	994.1	48.6	995.2	1070.6
9:50	2:10	537.3	376.3	656.0	541.8	6:20	5:40	996.2	38.9	997.0	1076.2
9:45	2:15	555.6	371.0	668.1	560.6	6:15	5:45	997.9	29.2	998.3	1081.5
9:40	2:20	573.6	365.5	680.1	579.2	6:10	5:50	999.0	19.5	999.2	1086.4
9:35	2:25	591.3	359.8	692.2	597.6	6:05	5:55	999.8	9.7	999.8	1090.9
9:30	2:30	608.8	354.0	704.2	615.7	6:00	6:00	1000.0	0.0	1000.0	1095.0
9:25	2:35	625.9	348.0	716.2	633.6	5:55	6:05	999.8	-9.7	999.8	1098.8
9:20	2:40	642.8	341.8	728.0	651.2	5:50	6:10	999.0	-19.5	999.2	1102.2
9:15	2:45	659.3	335.5	739.8	668.6	5:45	6:15	997.9	-29.2	998.3	1105.3
9:10	2:50	675.6	329.0	751.4	685.7	5:40	6:20	996.2	-38.9	997.0	1108.0
9:05	2:55	691.5	322.3	762.9	702.5	5:35	6:25	994.1	-48.6	995.2	1110.4
9:00	3:00	707.1	315.5	774.3	719.1	5:30	6:30	991.4	-58.2	993.2	1112.4
8:55	3:05	722.4	308.6	785.5	735.4	5:25	6:35	988.4	-67.9	990.7	1114.1
8:50	3:10	737.3	301.4	796.5	751.4	5:20	6:40	984.8	-77.5	987.9	1115.4
8:45	3:15	751.8	294.2	807.4	767.1	5:15	6:45	980.8	-87.0	984.6	1116.4
8:40	3:20	766.0	286.8	818.0	782.5	5:10	6:50	976.3	-96.6	981.1	1117.0
8:35	3:25	779.9	279.3	828.4	797.5	5:05	6:55	971.3	-106.1	977.1	1117.4
8:30	3:30	793.4	271.6	838.6	812.3	5:00	7:00	965.9	-115.5	972.8	1117.4

## Analematic Sundial

Latitude: 26.5° N/S

## Date Scale

Semi-Major Axis (E-W): 1000 mm    Semi-Minor Axis (N-S): 446.2 mm

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	-379.7	-372.5	-370.3	-360.5	-357.6	-345.3	-341.9	-327.3	-323.4	-306.9	-302.6
February	-274.6	-254.6	-249.4	-228.1	-222.8	-200.5	-194.8	-171.9	-166.0	-142.4	-136.3
March	-118.3	-94.1	-87.9	-63.4	-57.2	-32.5	-26.4	-1.6	4.5	29.2	35.3
April	72.0	96.1	102.1	125.8	131.7	154.9	160.5	183.2	188.8	210.6	215.8
May	241.8	261.7	266.5	284.9	289.4	306.4	310.4	325.9	329.6	343.2	346.2
June	363.0	371.8	373.8	380.2	381.7	385.8	386.3	387.8	388.0	385.2	386.5
July	381.7	375.6	373.8	365.6	363.2	352.5	349.6	336.9	333.5	319.0	315.2
August	290.4	272.4	267.8	248.5	243.7	223.3	218.0	196.8	191.4	169.3	163.6
September	129.4	106.1	100.2	76.4	70.4	46.4	40.5	16.2	10.2	-14.2	-20.3
October	-50.7	-75.0	-81.0	-105.1	-111.0	-134.9	-140.8	-164.1	-169.9	-192.7	-198.2
November	-230.9	-251.9	-257.0	-276.7	-281.5	-299.8	-304.1	-320.8	-324.7	-339.4	-343.0
December	-358.3	-368.7	-370.9	-378.4	-380.1	-384.9	-385.8	-387.8	-388.0	-387.1	-386.5

Northern Hemisphere

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	379.7	372.5	370.3	360.5	357.6	345.3	341.9	327.3	323.4	306.9	302.6
February	274.6	254.6	249.4	228.1	222.8	200.5	194.8	171.9	166.0	142.4	136.3
March	118.3	94.1	87.9	63.4	57.2	32.5	26.4	1.6	-4.5	-29.2	-35.3
April	-72.0	-96.1	-102.1	-125.8	-131.7	-154.9	-160.5	-183.2	-188.8	-210.6	-215.8
May	-241.8	-261.7	-266.5	-284.9	-289.4	-306.4	-310.4	-325.9	-329.6	-343.2	-346.2
June	-363.0	-371.8	-373.8	-380.2	-381.7	-385.8	-386.3	-387.8	-388.0	-385.2	-386.5
July	-381.7	-375.6	-373.8	-365.6	-363.2	-352.5	-349.6	-336.9	-333.5	-319.0	-315.2
August	-290.4	-272.4	-267.8	-248.5	-243.7	-223.3	-218.0	-196.8	-191.4	-169.3	-163.6
September	-129.4	-106.1	-100.2	-76.4	-70.4	-46.4	-40.5	-16.2	-10.2	14.2	20.3
October	50.7	75.0	81.0	105.1	111.0	134.9	140.8	164.1	169.9	192.7	198.2
November	230.9	251.9	257.0	276.7	281.5	299.8	304.1	320.8	324.7	339.4	343.0
December	358.3	368.7	370.9	378.4	380.1	384.9	385.8	387.8	388.0	387.1	386.5

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: 26.5° N/S

Earliest Sunrise: 5:06 a.m.    Latest Sunset: 6:54 p.m.  
 Semi-Major Axis (E-W): 1500 mm    Semi-Minor Axis (N-S): 669.3 mm  
 Sunrise/Sunset Markers: X = ± 1181.0 mm

Local Time	X	Y	Z	W	Local Time	X	Y	Z	W		
12:00	0.0	669.3	669.3	0.0							
11:55	12:05	32.7	669.1	669.9	32.7	8:25	3:35	1209.7	395.8	1272.8	1240.2
11:50	12:10	65.4	668.7	671.9	65.4	8:20	3:40	1228.7	383.9	1287.3	1261.4
11:45	12:15	98.1	667.9	675.0	98.1	8:15	3:45	1247.2	371.8	1301.5	1282.2
11:40	12:20	130.7	666.7	679.4	130.8	8:10	3:50	1265.1	359.6	1315.2	1302.4
11:35	12:25	163.3	665.3	685.1	163.3	8:05	3:55	1282.4	347.2	1328.5	1322.2
11:30	12:30	195.8	663.6	691.9	195.9	8:00	4:00	1299.0	334.6	1341.5	1341.5
11:25	12:35	228.2	661.5	699.8	228.3	7:55	4:05	1315.1	321.9	1353.9	1360.2
11:20	12:40	260.5	659.1	708.7	260.7	7:50	4:10	1330.5	309.0	1365.9	1378.4
11:15	12:45	292.6	656.4	718.7	292.9	7:45	4:15	1345.3	296.0	1377.5	1396.1
11:10	12:50	324.7	653.4	729.6	325.0	7:40	4:20	1359.5	282.9	1388.6	1413.3
11:05	12:55	356.5	650.1	741.5	357.0	7:35	4:25	1373.0	269.6	1399.2	1430.0
11:00	1:00	388.2	646.5	754.1	388.9	7:30	4:30	1385.8	256.1	1409.3	1446.1
10:55	1:05	419.7	642.6	767.5	420.6	7:25	4:35	1398.0	242.6	1418.9	1461.7
10:50	1:10	451.1	638.3	781.6	452.1	7:20	4:40	1409.5	228.9	1428.0	1476.7
10:45	1:15	482.2	633.8	796.3	483.5	7:15	4:45	1420.4	215.1	1436.6	1491.2
10:40	1:20	513.0	628.9	811.6	514.6	7:10	4:50	1430.6	201.3	1444.7	1505.2
10:35	1:25	543.7	623.8	827.5	545.6	7:05	4:55	1440.1	187.3	1452.2	1518.6
10:30	1:30	574.0	618.3	843.7	576.3	7:00	5:00	1448.9	173.2	1459.2	1531.5
10:25	1:35	604.1	612.6	860.4	606.8	6:55	5:05	1457.0	159.1	1465.7	1543.8
10:20	1:40	633.9	606.6	877.4	637.0	6:50	5:10	1464.4	144.9	1471.6	1555.5
10:15	1:45	663.4	600.3	894.7	667.0	6:45	5:15	1471.2	130.6	1477.0	1566.7
10:10	1:50	692.6	593.7	912.2	696.7	6:40	5:20	1477.2	116.2	1481.8	1577.4
10:05	1:55	721.5	586.8	930.0	726.2	6:35	5:25	1482.5	101.8	1486.0	1587.4
10:00	2:00	750.0	579.6	947.9	755.3	6:30	5:30	1487.2	87.4	1489.7	1597.0
9:55	2:05	778.2	572.2	965.9	784.2	6:25	5:35	1491.1	72.9	1492.9	1605.9
9:50	2:10	805.9	564.5	984.0	812.7	6:20	5:40	1494.3	58.3	1495.4	1614.4
9:45	2:15	833.4	556.5	1002.1	841.0	6:15	5:45	1496.8	43.8	1497.4	1622.2
9:40	2:20	860.4	548.3	1020.2	868.8	6:10	5:50	1498.6	29.2	1498.9	1629.6
9:35	2:25	887.0	539.8	1038.3	896.4	6:05	5:55	1499.6	14.6	1499.7	1636.3
9:30	2:30	913.1	531.0	1056.3	923.6	6:00	6:00	1500.0	0.0	1500.0	1642.5
9:25	2:35	938.9	522.0	1074.2	950.4	5:55	6:05	1499.6	-14.6	1499.7	1648.2
9:20	2:40	964.2	512.7	1092.0	976.8	5:50	6:10	1498.6	-29.2	1498.9	1653.4
9:15	2:45	989.0	503.2	1109.7	1002.9	5:45	6:15	1496.8	-43.8	1497.4	1658.0
9:10	2:50	1013.4	493.5	1127.1	1028.5	5:40	6:20	1494.3	-58.3	1495.4	1662.0
9:05	2:55	1037.3	483.5	1144.4	1053.8	5:35	6:25	1491.1	-72.9	1492.9	1665.6
9:00	3:00	1060.7	473.3	1161.5	1078.6	5:30	6:30	1487.2	-87.4	1489.7	1668.6
8:55	3:05	1083.5	462.8	1178.3	1103.0	5:25	6:35	1482.5	-101.8	1486.0	1671.1
8:50	3:10	1105.9	452.2	1194.8	1127.0	5:20	6:40	1477.2	-116.2	1481.8	1673.1
8:45	3:15	1127.8	441.3	1211.0	1150.6	5:15	6:45	1471.2	-130.6	1477.0	1674.6
8:40	3:20	1149.1	430.2	1227.0	1173.7	5:10	6:50	1464.4	-144.9	1471.6	1675.5
8:35	3:25	1169.8	418.9	1242.6	1196.3	5:05	6:55	1457.0	-159.1	1465.7	1676.0
8:30	3:30	1190.0	407.4	1257.8	1218.5	5:00	7:00	1448.9	-173.2	1459.2	1676.0

## Analematic Sundial

Latitude: 26.5° N/S

## Date Scale

Semi-Major Axis (E-W): 1500 mm    Semi-Minor Axis (N-S): 669.3 mm

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	-569.5	-558.8	-555.5	-540.7	-536.4	-518.0	-512.9	-491.0	-485.1	-460.4	-453.9
February	-412.0	-381.9	-374.0	-342.2	-334.2	-300.8	-292.2	-257.8	-249.0	-213.6	-204.5
March	-177.4	-141.1	-131.9	-95.0	-85.9	-48.8	-39.6	-2.3	6.8	43.8	53.0
April	108.0	144.2	153.2	188.7	197.5	232.4	240.8	274.8	283.1	315.8	323.8
May	362.7	392.5	399.7	427.4	434.1	459.6	465.6	488.9	494.4	514.8	519.3
June	544.5	557.7	560.7	570.4	572.6	578.7	579.5	581.7	582.0	577.9	579.8
July	572.6	563.5	560.7	548.4	544.8	528.8	524.5	505.4	500.3	478.5	472.7
August	435.7	408.6	401.7	372.8	365.5	334.9	327.0	295.1	287.1	253.9	245.4
September	194.2	159.1	150.3	114.6	105.6	69.6	60.7	24.4	15.2	-21.3	-30.5
October	-76.0	-112.5	-121.5	-157.7	-166.5	-202.3	-211.2	-246.1	-254.9	-289.0	-297.4
November	-346.4	-377.8	-385.4	-415.0	-422.2	-449.7	-456.2	-481.2	-487.0	-509.1	-514.5
December	-537.5	-553.0	-556.3	-567.6	-570.1	-577.3	-578.7	-581.7	-582.0	-580.6	-579.8

Northern Hemisphere

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	569.5	558.8	555.5	540.7	536.4	518.0	512.9	491.0	485.1	460.4	453.9
February	412.0	381.9	374.0	342.2	334.2	300.8	292.2	257.8	249.0	213.6	204.5
March	177.4	141.1	131.9	95.0	85.9	48.8	39.6	2.3	-6.8	-43.8	-53.0
April	-108.0	-144.2	-153.2	-188.7	-197.5	-232.4	-240.8	-274.8	-283.1	-315.8	-323.8
May	-362.7	-392.5	-399.7	-427.4	-434.1	-459.6	-465.6	-488.9	-494.4	-514.8	-519.3
June	-544.5	-557.7	-560.7	-570.4	-572.6	-578.7	-579.5	-581.7	-582.0	-577.9	-579.8
July	-572.6	-563.5	-560.7	-548.4	-544.8	-528.8	-524.5	-505.4	-500.3	-478.5	-472.7
August	-435.7	-408.6	-401.7	-372.8	-365.5	-334.9	-327.0	-295.1	-287.1	-253.9	-245.4
September	-194.2	-159.1	-150.3	-114.6	-105.6	-69.6	-60.7	-24.4	-15.2	21.3	30.5
October	76.0	112.5	121.5	157.7	166.5	202.3	211.2	246.1	254.9	289.0	297.4
November	346.4	377.8	385.4	415.0	422.2	449.7	456.2	481.2	487.0	509.1	514.5
December	537.5	553.0	556.3	567.6	570.1	577.3	578.7	581.7	582.0	580.6	579.8

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: 26.5° N/S

Earliest Sunrise: 5:06 a.m.    Latest Sunset: 6:54 p.m.  
 Semi-Major Axis (E-W): 2000 mm    Semi-Minor Axis (N-S): 892.4 mm  
 Sunrise/Sunset Markers: X = ± 1574.6 mm

Local Time	X	Y	Z	W	Local Time	X	Y	Z	W		
12:00	0.0	892.4	892.4	0.0							
11:55	12:05	43.6	892.2	893.2	43.6	8:25	3:35	1612.9	527.7	1697.0	1653.6
11:50	12:10	87.2	891.5	895.8	87.2	8:20	3:40	1638.3	511.9	1716.4	1681.9
11:45	12:15	130.8	890.5	900.0	130.8	8:15	3:45	1662.9	495.8	1735.3	1709.6
11:40	12:20	174.3	889.0	905.9	174.3	8:10	3:50	1686.8	479.5	1753.6	1736.6
11:35	12:25	217.7	887.1	913.4	217.8	8:05	3:55	1709.8	463.0	1771.4	1762.9
11:30	12:30	261.1	884.8	922.5	261.2	8:00	4:00	1732.1	446.2	1788.6	1788.6
11:25	12:35	304.2	882.0	933.0	304.4	7:55	4:05	1753.5	429.2	1805.2	1813.6
11:20	12:40	347.3	878.8	945.0	347.6	7:50	4:10	1774.0	412.1	1821.2	1837.9
11:15	12:45	390.2	875.2	958.3	390.6	7:45	4:15	1793.7	394.7	1836.7	1861.5
11:10	12:50	432.9	871.2	972.9	433.4	7:40	4:20	1812.6	377.1	1851.4	1884.4
11:05	12:55	475.4	866.8	988.6	476.1	7:35	4:25	1830.6	359.4	1865.6	1906.6
11:00	1:00	517.6	862.0	1005.5	518.5	7:30	4:30	1847.8	341.5	1879.1	1928.1
10:55	1:05	559.7	856.7	1023.3	560.8	7:25	4:35	1864.0	323.4	1891.9	1948.9
10:50	1:10	601.4	851.1	1042.1	602.8	7:20	4:40	1879.4	305.2	1904.0	1969.0
10:45	1:15	642.9	845.0	1061.8	644.6	7:15	4:45	1893.9	286.9	1915.5	1988.3
10:40	1:20	684.0	838.6	1082.2	686.2	7:10	4:50	1907.4	268.3	1926.2	2006.9
10:35	1:25	724.9	831.7	1103.3	727.4	7:05	4:55	1920.1	249.7	1936.3	2024.8
10:30	1:30	765.4	824.5	1125.0	768.4	7:00	5:00	1931.9	231.0	1945.6	2041.9
10:25	1:35	805.5	816.8	1147.2	809.0	6:55	5:05	1942.7	212.1	1954.2	2058.4
10:20	1:40	845.2	808.8	1169.9	849.4	6:50	5:10	1952.6	193.1	1962.1	2074.0
10:15	1:45	884.6	800.4	1192.9	889.4	6:45	5:15	1961.6	174.1	1969.3	2088.9
10:10	1:50	923.5	791.6	1216.3	929.0	6:40	5:20	1969.6	155.0	1975.7	2103.1
10:05	1:55	962.0	782.4	1240.0	968.2	6:35	5:25	1976.7	135.8	1981.4	2116.6
10:00	2:00	1000.0	772.8	1263.8	1007.1	6:30	5:30	1982.9	116.5	1986.3	2129.3
9:55	2:05	1037.5	762.9	1287.8	1045.6	6:25	5:35	1988.1	97.2	1990.5	2141.3
9:50	2:10	1074.6	752.6	1312.0	1083.6	6:20	5:40	1992.4	77.8	1993.9	2152.5
9:45	2:15	1111.1	742.0	1336.1	1121.3	6:15	5:45	1995.7	58.4	1996.6	2163.0
9:40	2:20	1147.2	731.0	1360.3	1158.4	6:10	5:50	1998.1	38.9	1998.5	2172.7
9:35	2:25	1182.6	719.7	1384.4	1195.2	6:05	5:55	1999.5	19.5	1999.6	2181.8
9:30	2:30	1217.5	708.0	1408.4	1231.4	6:00	6:00	2000.0	0.0	2000.0	2190.1
9:25	2:35	1251.8	696.0	1432.3	1267.2	5:55	6:05	1999.5	-19.5	1999.6	2197.6
9:20	2:40	1285.6	683.6	1456.0	1302.4	5:50	6:10	1998.1	-38.9	1998.5	2204.5
9:15	2:45	1318.7	670.9	1479.6	1337.2	5:45	6:15	1995.7	-58.4	1996.6	2210.6
9:10	2:50	1351.2	657.9	1502.9	1371.4	5:40	6:20	1992.4	-77.8	1993.9	2216.0
9:05	2:55	1383.0	644.6	1525.9	1405.0	5:35	6:25	1988.1	-97.2	1990.5	2220.8
9:00	3:00	1414.2	631.0	1548.6	1438.2	5:30	6:30	1982.9	-116.5	1986.3	2224.8
8:55	3:05	1444.7	617.1	1571.0	1470.7	5:25	6:35	1976.7	-135.8	1981.4	2228.1
8:50	3:10	1474.6	602.9	1593.0	1502.7	5:20	6:40	1969.6	-155.0	1975.7	2230.8
8:45	3:15	1503.7	588.4	1614.7	1534.1	5:15	6:45	1961.6	-174.1	1969.3	2232.7
8:40	3:20	1532.1	573.6	1636.0	1564.9	5:10	6:50	1952.6	-193.1	1962.1	2234.1
8:35	3:25	1559.8	558.6	1656.8	1595.1	5:05	6:55	1942.7	-212.1	1954.2	2234.7
8:30	3:30	1586.7	543.3	1677.1	1624.7	5:00	7:00	1931.9	-231.0	1945.6	2234.7

## Analematic Sundial

Latitude: 26.5° N/S

## Date Scale

Semi-Major Axis (E-W): 2000 mm    Semi-Minor Axis (N-S): 892.4 mm

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	-759.4	-745.1	-740.7	-721.0	-715.2	-690.7	-683.8	-654.6	-646.9	-613.9	-605.1
February	-549.3	-509.2	-498.7	-456.2	-445.6	-401.1	-389.6	-343.7	-332.1	-284.8	-272.6
March	-236.6	-188.1	-175.8	-126.7	-114.5	-65.0	-52.8	-3.1	9.1	58.4	70.6
April	144.0	192.2	204.2	251.5	263.3	309.8	321.1	366.4	377.5	421.1	431.7
May	483.6	523.4	532.9	569.8	578.8	612.8	620.8	651.8	659.3	686.3	692.4
June	726.1	743.6	747.6	760.5	763.4	771.6	772.7	775.7	776.0	770.5	773.1
July	763.4	751.3	747.6	731.2	726.4	705.0	699.3	673.8	667.1	638.0	630.3
August	580.9	544.8	535.6	497.0	487.3	446.6	436.0	393.5	382.7	338.5	327.2
September	258.9	212.2	200.4	152.8	140.9	92.9	81.0	32.5	20.3	-28.4	-40.6
October	-101.3	-150.0	-161.9	-210.3	-222.0	-269.7	-281.6	-328.2	-339.8	-385.3	-396.5
November	-461.9	-503.8	-513.9	-553.4	-563.0	-599.6	-608.3	-641.6	-649.3	-678.8	-686.0
December	-716.6	-737.4	-741.8	-756.8	-760.1	-769.7	-771.6	-775.7	-776.0	-774.2	-773.1

Northern Hemisphere

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	759.4	745.1	740.7	721.0	715.2	690.7	683.8	654.6	646.9	613.9	605.1
February	549.3	509.2	498.7	456.2	445.6	401.1	389.6	343.7	332.1	284.8	272.6
March	236.6	188.1	175.8	126.7	114.5	65.0	52.8	3.1	-9.1	-58.4	-70.6
April	-144.0	-192.2	-204.2	-251.5	-263.3	-309.8	-321.1	-366.4	-377.5	-421.1	-431.7
May	-483.6	-523.4	-532.9	-569.8	-578.8	-612.8	-620.8	-651.8	-659.3	-686.3	-692.4
June	-726.1	-743.6	-747.6	-760.5	-763.4	-771.6	-772.7	-775.7	-776.0	-770.5	-773.1
July	-763.4	-751.3	-747.6	-731.2	-726.4	-705.0	-699.3	-673.8	-667.1	-638.0	-630.3
August	-580.9	-544.8	-535.6	-497.0	-487.3	-446.6	-436.0	-393.5	-382.7	-338.5	-327.2
September	-258.9	-212.2	-200.4	-152.8	-140.9	-92.9	-81.0	-32.5	-20.3	28.4	40.6
October	101.3	150.0	161.9	210.3	222.0	269.7	281.6	328.2	339.8	385.3	396.5
November	461.9	503.8	513.9	553.4	563.0	599.6	608.3	641.6	649.3	678.8	686.0
December	716.6	737.4	741.8	756.8	760.1	769.7	771.6	775.7	776.0	774.2	773.1

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: 26.5° N/S

Earliest Sunrise: 5:06 a.m.    Latest Sunset: 6:54 p.m.  
 Semi-Major Axis (E-W): 2500 mm    Semi-Minor Axis (N-S): 1155.5 mm  
 Sunrise/Sunset Markers: X = ± 1968.3 mm

Local Time	X	Y	Z	W	Local Time	X	Y	Z	W		
12:00	0.0	1115.5	1115.5	0.0							
11:55	12:05	54.5	1115.2	1116.6	54.5	8:25	3:35	2016.1	659.6	2121.3	2067.0
11:50	12:10	109.0	1114.4	1119.8	109.1	8:20	3:40	2047.9	639.8	2145.5	2102.4
11:45	12:15	163.5	1113.1	1125.1	163.5	8:15	3:45	2078.7	619.7	2169.1	2137.0
11:40	12:20	217.9	1111.2	1132.4	217.9	8:10	3:50	2108.5	599.4	2192.0	2170.7
11:35	12:25	272.2	1108.9	1141.8	272.2	8:05	3:55	2137.3	578.7	2214.2	2203.7
11:30	12:30	326.3	1106.0	1153.1	326.5	8:00	4:00	2165.1	557.7	2235.8	2235.8
11:25	12:35	380.3	1102.5	1166.3	380.5	7:55	4:05	2191.8	536.5	2256.5	2267.0
11:20	12:40	434.1	1098.5	1181.2	434.5	7:50	4:10	2217.5	515.1	2276.6	2297.4
11:15	12:45	487.7	1094.1	1197.9	488.2	7:45	4:15	2242.2	493.4	2295.8	2326.9
11:10	12:50	541.1	1089.1	1216.1	541.7	7:40	4:20	2265.8	471.4	2314.3	2355.5
11:05	12:55	594.2	1083.5	1235.8	595.1	7:35	4:25	2288.3	449.3	2332.0	2383.3
11:00	1:00	647.0	1077.5	1256.8	648.2	7:30	4:30	2309.7	426.9	2348.8	2410.2
10:55	1:05	699.6	1070.9	1279.2	701.0	7:25	4:35	2330.0	404.3	2364.8	2436.1
10:50	1:10	751.8	1063.9	1302.7	753.5	7:20	4:40	2349.2	381.5	2380.0	2461.2
10:45	1:15	803.6	1056.3	1327.2	805.8	7:15	4:45	2367.3	358.6	2394.3	2485.4
10:40	1:20	855.1	1048.2	1352.7	857.7	7:10	4:50	2384.3	335.4	2407.8	2508.7
10:35	1:25	906.1	1039.6	1379.1	909.3	7:05	4:55	2400.1	312.1	2420.3	2531.0
10:30	1:30	956.7	1030.6	1406.2	960.5	7:00	5:00	2414.8	288.7	2432.0	2552.4
10:25	1:35	1006.9	1021.0	1434.0	1011.3	6:55	5:05	2428.4	265.1	2442.8	2572.9
10:20	1:40	1056.5	1011.0	1462.3	1061.7	6:50	5:10	2440.7	241.4	2452.7	2592.5
10:15	1:45	1105.7	1000.5	1491.2	1111.7	6:45	5:15	2452.0	217.6	2461.6	2611.2
10:10	1:50	1154.4	989.5	1520.4	1161.2	6:40	5:20	2462.0	193.7	2469.6	2628.9
10:05	1:55	1202.5	978.0	1550.0	1210.3	6:35	5:25	2470.9	169.7	2476.7	2645.7
10:00	2:00	1250.0	966.0	1579.8	1258.9	6:30	5:30	2478.6	145.6	2482.9	2661.6
9:55	2:05	1296.9	953.6	1609.8	1307.0	6:25	5:35	2485.1	121.4	2488.1	2676.6
9:50	2:10	1343.2	940.8	1639.9	1354.6	6:20	5:40	2490.5	97.2	2492.4	2690.6
9:45	2:15	1388.9	927.5	1670.1	1401.6	6:15	5:45	2494.6	73.0	2495.7	2703.7
9:40	2:20	1433.9	913.8	1700.3	1448.1	6:10	5:50	2497.6	48.7	2498.1	2715.9
9:35	2:25	1478.3	899.6	1730.5	1494.0	6:05	5:55	2499.4	24.3	2499.5	2727.2
9:30	2:30	1521.9	885.0	1760.5	1539.3	6:00	6:00	2500.0	0.0	2500.0	2737.6
9:25	2:35	1564.8	870.0	1790.4	1584.0	5:55	6:05	2499.4	-24.3	2499.5	2747.0
9:20	2:40	1607.0	854.5	1820.0	1628.0	5:50	6:10	2497.6	-48.7	2498.1	2755.6
9:15	2:45	1648.4	838.7	1849.5	1671.4	5:45	6:15	2494.6	-73.0	2495.7	2763.3
9:10	2:50	1689.0	822.4	1878.6	1714.2	5:40	6:20	2490.5	-97.2	2492.4	2770.1
9:05	2:55	1728.8	805.8	1907.4	1756.3	5:35	6:25	2485.1	-121.4	2488.1	2776.0
9:00	3:00	1767.8	788.8	1935.8	1797.7	5:30	6:30	2478.6	-145.6	2482.9	2781.0
8:55	3:05	1805.9	771.4	1963.8	1838.4	5:25	6:35	2470.9	-169.7	2476.7	2785.2
8:50	3:10	1843.2	753.6	1991.3	1878.4	5:20	6:40	2462.0	-193.7	2469.6	2788.5
8:45	3:15	1879.6	735.5	2018.4	1917.6	5:15	6:45	2452.0	-217.6	2461.6	2790.9
8:40	3:20	1915.1	717.0	2044.9	1956.1	5:10	6:50	2440.7	-241.4	2452.7	2792.6
8:35	3:25	1949.7	698.2	2071.0	1993.9	5:05	6:55	2428.4	-265.1	2442.8	2793.4
8:30	3:30	1983.4	679.1	2096.4	2030.8	5:00	7:00	2414.8	-288.7	2432.0	2793.4

## Analematic Sundial

Latitude: 26.5° N/S

## Date Scale

Semi-Major Axis (E-W): 2500 mm    Semi-Minor Axis (N-S): 1155.5 mm

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	-949.2	-931.3	-925.8	-901.2	-894.0	-863.3	-854.8	-818.3	-808.6	-767.3	-756.4
February	-686.6	-636.5	-623.4	-570.3	-557.0	-501.3	-487.0	-429.6	-415.1	-356.0	-340.8
March	-295.7	-235.2	-219.8	-158.4	-143.1	-81.3	-66.0	-3.9	11.3	73.0	88.3
April	180.0	240.3	255.3	314.4	329.2	387.3	401.4	458.0	471.9	526.4	539.6
May	604.5	654.2	666.1	712.3	723.5	766.0	776.1	814.8	824.1	857.9	865.6
June	907.6	929.5	934.5	950.6	954.3	964.5	965.9	969.6	970.0	963.1	966.3
July	954.3	939.1	934.5	914.0	908.0	881.3	874.1	842.3	833.8	797.6	787.9
August	726.1	681.0	669.5	621.3	609.1	558.2	545.0	491.9	478.4	423.2	409.0
September	323.6	265.2	250.6	191.0	176.1	116.1	101.2	40.6	25.4	-35.5	-50.8
October	-126.7	-187.5	-202.4	-262.8	-277.5	-337.2	-352.0	-410.2	-424.8	-481.7	-495.6
November	-577.4	-629.7	-642.4	-691.7	-703.7	-749.5	-760.3	-802.0	-811.7	-848.5	-857.5
December	-895.8	-921.7	-927.2	-946.0	-950.2	-962.2	-964.5	-969.6	-970.0	-967.7	-966.3

Northern Hemisphere

Month	Date										
	1	5	6	10	11	15	16	20	21	25	26
January	949.2	931.3	925.8	901.2	894.0	863.3	854.8	818.3	808.6	767.3	756.4
February	686.6	636.5	623.4	570.3	557.0	501.3	487.0	429.6	415.1	356.0	340.8
March	295.7	235.2	219.8	158.4	143.1	81.3	66.0	3.9	-11.3	-73.0	-88.3
April	-180.0	-240.3	-255.3	-314.4	-329.2	-387.3	-401.4	-458.0	-471.9	-526.4	-539.6
May	-604.5	-654.2	-666.1	-712.3	-723.5	-766.0	-776.1	-814.8	-824.1	-857.9	-865.6
June	-907.6	-929.5	-934.5	-950.6	-954.3	-964.5	-965.9	-969.6	-970.0	-963.1	-966.3
July	-954.3	-939.1	-934.5	-914.0	-908.0	-881.3	-874.1	-842.3	-833.8	-797.6	-787.9
August	-726.1	-681.0	-669.5	-621.3	-609.1	-558.2	-545.0	-491.9	-478.4	-423.2	-409.0
September	-323.6	-265.2	-250.6	-191.0	-176.1	-116.1	-101.2	-40.6	-25.4	35.5	50.8
October	126.7	187.5	202.4	262.8	277.5	337.2	352.0	410.2	424.8	481.7	495.6
November	577.4	629.7	642.4	691.7	703.7	749.5	760.3	802.0	811.7	848.5	857.5
December	895.8	921.7	927.2	946.0	950.2	962.2	964.5	969.6	970.0	967.7	966.3

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 |