

Horizontal Shadow Plane Sundial

Latitude: 54.5° N/S

Earliest Sunrise: 3:23 a.m. Latest Sunset: 8:37 p.m.

E-W Dimension: 1000 mm

Local Time		X	Y	Local Time		X	Y	Local Time		X	Y
12:00		0.0	-500.0								
11:55	12:05	8.9	-500.0	8:25	3:35	500.0	-450.3	4:55	7:05	500.0	179.0
11:50	12:10	17.8	-500.0	8:20	3:40	500.0	-430.0	4:50	7:10	500.0	193.6
11:45	12:15	26.7	-500.0	8:15	3:45	500.0	-410.4	4:45	7:15	500.0	208.5
11:40	12:20	35.6	-500.0	8:10	3:50	500.0	-391.3	4:40	7:20	500.0	223.5
11:35	12:25	44.6	-500.0	8:05	3:55	500.0	-372.7	4:35	7:25	500.0	238.8
11:30	12:30	53.6	-500.0	8:00	4:00	500.0	-354.6	4:30	7:30	500.0	254.4
11:25	12:35	62.7	-500.0	7:55	4:05	500.0	-336.9	4:25	7:35	500.0	270.2
11:20	12:40	71.8	-500.0	7:50	4:10	500.0	-319.7	4:20	7:40	500.0	286.4
11:15	12:45	81.0	-500.0	7:45	4:15	500.0	-302.9	4:15	7:45	500.0	302.9
11:10	12:50	90.2	-500.0	7:40	4:20	500.0	-286.4	4:10	7:50	500.0	319.7
11:05	12:55	99.6	-500.0	7:35	4:25	500.0	-270.2	4:05	7:55	500.0	336.9
11:00	1:00	109.1	-500.0	7:30	4:30	500.0	-254.4	4:00	8:00	500.0	354.6
10:55	1:05	118.6	-500.0	7:25	4:35	500.0	-238.8	3:55	8:05	500.0	372.7
10:50	1:10	128.3	-500.0	7:20	4:40	500.0	-223.5	3:50	8:10	500.0	391.3
10:45	1:15	138.2	-500.0	7:15	4:45	500.0	-208.5	3:45	8:15	500.0	410.4
10:40	1:20	148.2	-500.0	7:10	4:50	500.0	-193.6	3:40	8:20	500.0	430.0
10:35	1:25	158.3	-500.0	7:05	4:55	500.0	-179.0	3:35	8:25	500.0	450.3
10:30	1:30	168.6	-500.0	7:00	5:00	500.0	-164.6	3:30	8:30	500.0	471.3
10:25	1:35	179.1	-500.0	6:55	5:05	500.0	-150.3	3:25	8:35	500.0	492.9
10:20	1:40	189.8	-500.0	6:50	5:10	500.0	-136.2	3:20	8:40	485.1	500.0
10:15	1:45	200.7	-500.0	6:45	5:15	500.0	-122.2	3:15	8:45	464.2	500.0
10:10	1:50	211.9	-500.0	6:40	5:20	500.0	-108.3				
10:05	1:55	223.3	-500.0	6:35	5:25	500.0	-94.5				
10:00	2:00	235.0	-500.0	6:30	5:30	500.0	-80.9				
9:55	2:05	247.0	-500.0	6:25	5:35	500.0	-67.3				
9:50	2:10	259.3	-500.0	6:20	5:40	500.0	-53.7				
9:45	2:15	272.0	-500.0	6:15	5:45	500.0	-40.3				
9:40	2:20	285.0	-500.0	6:10	5:50	500.0	-26.8				
9:35	2:25	298.5	-500.0	6:05	5:55	500.0	-13.4				
9:30	2:30	312.3	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	326.7	-500.0	5:55	6:05	500.0	13.4				
9:20	2:40	341.6	-500.0	5:50	6:10	500.0	26.8				
9:15	2:45	357.0	-500.0	5:45	6:15	500.0	40.3				
9:10	2:50	373.0	-500.0	5:40	6:20	500.0	53.7				
9:05	2:55	389.7	-500.0	5:35	6:25	500.0	67.3				
9:00	3:00	407.1	-500.0	5:30	6:30	500.0	80.9				
8:55	3:05	425.2	-500.0	5:25	6:35	500.0	94.5				
8:50	3:10	444.2	-500.0	5:20	6:40	500.0	108.3				
8:45	3:15	464.2	-500.0	5:15	6:45	500.0	122.2				
8:40	3:20	485.1	-500.0	5:10	6:50	500.0	136.2				
8:35	3:25	500.0	-492.9	5:05	6:55	500.0	150.3				
8:30	3:30	500.0	-471.3	5:00	7:00	500.0	164.6				

Horizontal Shadow Plane Sundial

Latitude: 54.5° N/S

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E-W Dimension: 3000 mm

Local Time	X	Y	Local Time	X	Y	Local Time	X	Y			
12:00	0.0	-1500.0									
11:55	12:05	26.6	-1500.0	8:25	3:35	1500.0	-1351.0	4:55	7:05	1500.0	537.0
11:50	12:10	53.3	-1500.0	8:20	3:40	1500.0	-1290.1	4:50	7:10	1500.0	580.9
11:45	12:15	80.0	-1500.0	8:15	3:45	1500.0	-1231.1	4:45	7:15	1500.0	625.4
11:40	12:20	106.8	-1500.0	8:10	3:50	1500.0	-1173.8	4:40	7:20	1500.0	670.6
11:35	12:25	133.7	-1500.0	8:05	3:55	1500.0	-1118.1	4:35	7:25	1500.0	716.5
11:30	12:30	160.8	-1500.0	8:00	4:00	1500.0	-1063.8	4:30	7:30	1500.0	763.2
11:25	12:35	188.0	-1500.0	7:55	4:05	1500.0	-1010.8	4:25	7:35	1500.0	810.7
11:20	12:40	215.3	-1500.0	7:50	4:10	1500.0	-959.1	4:20	7:40	1500.0	859.2
11:15	12:45	242.9	-1500.0	7:45	4:15	1500.0	-908.6	4:15	7:45	1500.0	908.6
11:10	12:50	270.7	-1500.0	7:40	4:20	1500.0	-859.2	4:10	7:50	1500.0	959.1
11:05	12:55	298.8	-1500.0	7:35	4:25	1500.0	-810.7	4:05	7:55	1500.0	1010.8
11:00	1:00	327.2	-1500.0	7:30	4:30	1500.0	-763.2	4:00	8:00	1500.0	1063.8
10:55	1:05	355.9	-1500.0	7:25	4:35	1500.0	-716.5	3:55	8:05	1500.0	1118.1
10:50	1:10	385.0	-1500.0	7:20	4:40	1500.0	-670.6	3:50	8:10	1500.0	1173.8
10:45	1:15	414.5	-1500.0	7:15	4:45	1500.0	-625.4	3:45	8:15	1500.0	1231.1
10:40	1:20	444.5	-1500.0	7:10	4:50	1500.0	-580.9	3:40	8:20	1500.0	1290.1
10:35	1:25	474.9	-1500.0	7:05	4:55	1500.0	-537.0	3:35	8:25	1500.0	1351.0
10:30	1:30	505.8	-1500.0	7:00	5:00	1500.0	-493.7	3:30	8:30	1500.0	1413.8
10:25	1:35	537.3	-1500.0	6:55	5:05	1500.0	-450.9	3:25	8:35	1500.0	1478.8
10:20	1:40	569.4	-1500.0	6:50	5:10	1500.0	-408.5	3:20	8:40	1455.3	1500.0
10:15	1:45	602.2	-1500.0	6:45	5:15	1500.0	-366.5	3:15	8:45	1392.5	1500.0
10:10	1:50	635.7	-1500.0	6:40	5:20	1500.0	-324.9				
10:05	1:55	670.0	-1500.0	6:35	5:25	1500.0	-283.6				
10:00	2:00	705.0	-1500.0	6:30	5:30	1500.0	-242.6				
9:55	2:05	741.0	-1500.0	6:25	5:35	1500.0	-201.8				
9:50	2:10	778.0	-1500.0	6:20	5:40	1500.0	-161.2				
9:45	2:15	816.0	-1500.0	6:15	5:45	1500.0	-120.8				
9:40	2:20	855.1	-1500.0	6:10	5:50	1500.0	-80.4				
9:35	2:25	895.4	-1500.0	6:05	5:55	1500.0	-40.2				
9:30	2:30	937.0	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	980.1	-1500.0	5:55	6:05	1500.0	40.2				
9:20	2:40	1024.7	-1500.0	5:50	6:10	1500.0	80.4				
9:15	2:45	1070.9	-1500.0	5:45	6:15	1500.0	120.8				
9:10	2:50	1119.0	-1500.0	5:40	6:20	1500.0	161.2				
9:05	2:55	1169.0	-1500.0	5:35	6:25	1500.0	201.8				
9:00	3:00	1221.2	-1500.0	5:30	6:30	1500.0	242.6				
8:55	3:05	1275.7	-1500.0	5:25	6:35	1500.0	283.6				
8:50	3:10	1332.7	-1500.0	5:20	6:40	1500.0	324.9				
8:45	3:15	1392.5	-1500.0	5:15	6:45	1500.0	366.5				
8:40	3:20	1455.3	-1500.0	5:10	6:50	1500.0	408.5				
8:35	3:25	1500.0	-1478.8	5:05	6:55	1500.0	450.9				
8:30	3:30	1500.0	-1413.8	5:00	7:00	1500.0	493.7				