

# The Sundial Primer - "Dialling Guide"

created by Carl Sabanski

## Horizontal Shadow Plane Sundial

Latitude: 47.0° N/S

Earliest Sunrise: 4:03 a.m. Latest Sunset: 7:57 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	8.0	-500.0	8:25	3:35	498.7	-500.0	4:55	7:05	500.0	199.3
11:50	12:10	16.0	-500.0	8:20	3:40	500.0	-478.7	4:50	7:10	500.0	215.6
11:45	12:15	24.0	-500.0	8:15	3:45	500.0	-456.8	4:45	7:15	500.0	232.1
11:40	12:20	32.0	-500.0	8:10	3:50	500.0	-435.5	4:40	7:20	500.0	248.8
11:35	12:25	40.0	-500.0	8:05	3:55	500.0	-414.9	4:35	7:25	500.0	265.9
11:30	12:30	48.1	-500.0	8:00	4:00	500.0	-394.7	4:30	7:30	500.0	283.2
11:25	12:35	56.3	-500.0	7:55	4:05	500.0	-375.1	4:25	7:35	500.0	300.8
11:20	12:40	64.5	-500.0	7:50	4:10	500.0	-355.9	4:20	7:40	500.0	318.8
11:15	12:45	72.7	-500.0	7:45	4:15	500.0	-337.1	4:15	7:45	500.0	337.1
11:10	12:50	81.1	-500.0	7:40	4:20	500.0	-318.8	4:10	7:50	500.0	355.9
11:05	12:55	89.5	-500.0	7:35	4:25	500.0	-300.8	4:05	7:55	500.0	375.1
11:00	1:00	98.0	-500.0	7:30	4:30	500.0	-283.2	4:00	8:00	500.0	394.7
10:55	1:05	106.6	-500.0	7:25	4:35	500.0	-265.9				
10:50	1:10	115.3	-500.0	7:20	4:40	500.0	-248.8				
10:45	1:15	124.1	-500.0	7:15	4:45	500.0	-232.1				
10:40	1:20	133.1	-500.0	7:10	4:50	500.0	-215.6				
10:35	1:25	142.2	-500.0	7:05	4:55	500.0	-199.3				
10:30	1:30	151.5	-500.0	7:00	5:00	500.0	-183.2				
10:25	1:35	160.9	-500.0	6:55	5:05	500.0	-167.3				
10:20	1:40	170.5	-500.0	6:50	5:10	500.0	-151.6				
10:15	1:45	180.3	-500.0	6:45	5:15	500.0	-136.0				
10:10	1:50	190.4	-500.0	6:40	5:20	500.0	-120.5				
10:05	1:55	200.6	-500.0	6:35	5:25	500.0	-105.2				
10:00	2:00	211.1	-500.0	6:30	5:30	500.0	-90.0				
9:55	2:05	221.9	-500.0	6:25	5:35	500.0	-74.9				
9:50	2:10	233.0	-500.0	6:20	5:40	500.0	-59.8				
9:45	2:15	244.3	-500.0	6:15	5:45	500.0	-44.8				
9:40	2:20	256.0	-500.0	6:10	5:50	500.0	-29.8				
9:35	2:25	268.1	-500.0	6:05	5:55	500.0	-14.9				
9:30	2:30	280.6	-500.0	6:00	6:00	500.0	0.0				
9:25	2:35	293.5	-500.0	5:55	6:05	500.0	14.9				
9:20	2:40	306.8	-500.0	5:50	6:10	500.0	29.8				
9:15	2:45	320.7	-500.0	5:45	6:15	500.0	44.8				
9:10	2:50	335.1	-500.0	5:40	6:20	500.0	59.8				
9:05	2:55	350.1	-500.0	5:35	6:25	500.0	74.9				
9:00	3:00	365.7	-500.0	5:30	6:30	500.0	90.0				
8:55	3:05	382.0	-500.0	5:25	6:35	500.0	105.2				
8:50	3:10	399.1	-500.0	5:20	6:40	500.0	120.5				
8:45	3:15	417.0	-500.0	5:15	6:45	500.0	136.0				
8:40	3:20	435.8	-500.0	5:10	6:50	500.0	151.6				
8:35	3:25	455.6	-500.0	5:05	6:55	500.0	167.3				
8:30	3:30	476.6	-500.0	5:00	7:00	500.0	183.2				

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## Horizontal Shadow Plane Sundial

Latitude: 47.0° N/S

Earliest Sunrise: 4:03 a.m. Latest Sunset: 7:57 p.m.

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	23.9	-1500.0	8:25	3:35	1496.2	-1500.0	4:55	7:05	1500.0	597.8
11:50	12:10	47.9	-1500.0	8:20	3:40	1500.0	-1436.1	4:50	7:10	1500.0	646.7
11:45	12:15	71.9	-1500.0	8:15	3:45	1500.0	-1370.4	4:45	7:15	1500.0	696.2
11:40	12:20	96.0	-1500.0	8:10	3:50	1500.0	-1306.6	4:40	7:20	1500.0	746.5
11:35	12:25	120.1	-1500.0	8:05	3:55	1500.0	-1244.6	4:35	7:25	1500.0	797.6
11:30	12:30	144.4	-1500.0	8:00	4:00	1500.0	-1184.1	4:30	7:30	1500.0	849.5
11:25	12:35	168.8	-1500.0	7:55	4:05	1500.0	-1125.2	4:25	7:35	1500.0	902.5
11:20	12:40	193.4	-1500.0	7:50	4:10	1500.0	-1067.7	4:20	7:40	1500.0	956.4
11:15	12:45	218.2	-1500.0	7:45	4:15	1500.0	-1011.4	4:15	7:45	1500.0	1011.4
11:10	12:50	243.2	-1500.0	7:40	4:20	1500.0	-956.4	4:10	7:50	1500.0	1067.7
11:05	12:55	268.4	-1500.0	7:35	4:25	1500.0	-902.5	4:05	7:55	1500.0	1125.2
11:00	1:00	293.9	-1500.0	7:30	4:30	1500.0	-849.5	4:00	8:00	1500.0	1184.1
10:55	1:05	319.8	-1500.0	7:25	4:35	1500.0	-797.6				
10:50	1:10	345.9	-1500.0	7:20	4:40	1500.0	-746.5				
10:45	1:15	372.4	-1500.0	7:15	4:45	1500.0	-696.2				
10:40	1:20	399.3	-1500.0	7:10	4:50	1500.0	-646.7				
10:35	1:25	426.6	-1500.0	7:05	4:55	1500.0	-597.8				
10:30	1:30	454.4	-1500.0	7:00	5:00	1500.0	-549.6				
10:25	1:35	482.7	-1500.0	6:55	5:05	1500.0	-501.9				
10:20	1:40	511.6	-1500.0	6:50	5:10	1500.0	-454.7				
10:15	1:45	541.0	-1500.0	6:45	5:15	1500.0	-408.0				
10:10	1:50	571.1	-1500.0	6:40	5:20	1500.0	-361.6				
10:05	1:55	601.9	-1500.0	6:35	5:25	1500.0	-315.7				
10:00	2:00	633.4	-1500.0	6:30	5:30	1500.0	-270.0				
9:55	2:05	665.7	-1500.0	6:25	5:35	1500.0	-224.6				
9:50	2:10	698.9	-1500.0	6:20	5:40	1500.0	-179.4				
9:45	2:15	733.0	-1500.0	6:15	5:45	1500.0	-134.4				
9:40	2:20	768.1	-1500.0	6:10	5:50	1500.0	-89.5				
9:35	2:25	804.4	-1500.0	6:05	5:55	1500.0	-44.8				
9:30	2:30	841.8	-1500.0	6:00	6:00	1500.0	0.0				
9:25	2:35	880.5	-1500.0	5:55	6:05	1500.0	44.8				
9:20	2:40	920.5	-1500.0	5:50	6:10	1500.0	89.5				
9:15	2:45	962.1	-1500.0	5:45	6:15	1500.0	134.4				
9:10	2:50	1005.2	-1500.0	5:40	6:20	1500.0	179.4				
9:05	2:55	1050.2	-1500.0	5:35	6:25	1500.0	224.6				
9:00	3:00	1097.0	-1500.0	5:30	6:30	1500.0	270.0				
8:55	3:05	1146.0	-1500.0	5:25	6:35	1500.0	315.7				
8:50	3:10	1197.2	-1500.0	5:20	6:40	1500.0	361.6				
8:45	3:15	1250.9	-1500.0	5:15	6:45	1500.0	408.0				
8:40	3:20	1307.4	-1500.0	5:10	6:50	1500.0	454.7				
8:35	3:25	1366.9	-1500.0	5:05	6:55	1500.0	501.9				
8:30	3:30	1429.7	-1500.0	5:00	7:00	1500.0	549.6				