

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949447

Luminaire Tested: **GALN-SB4A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13374 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

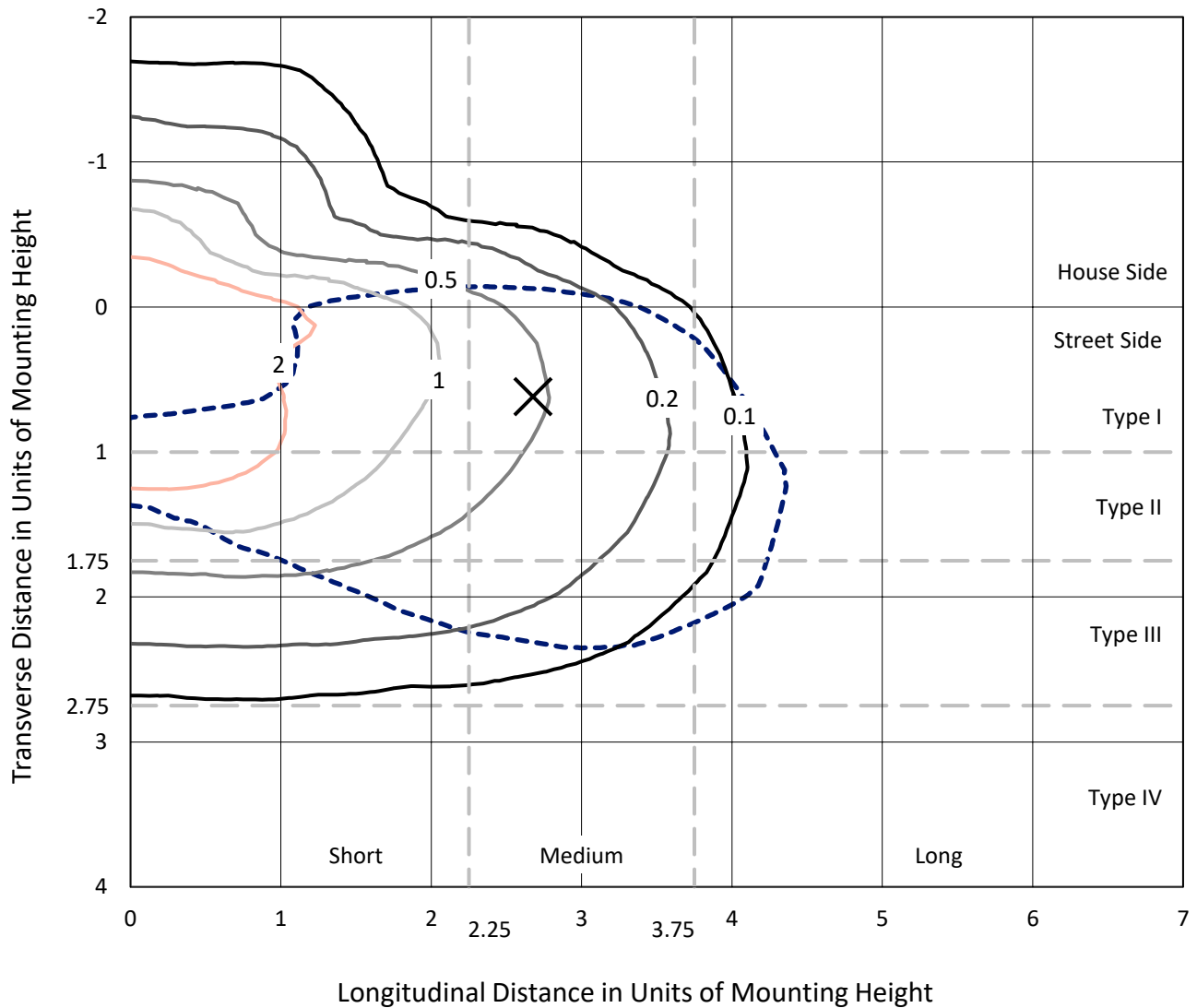
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

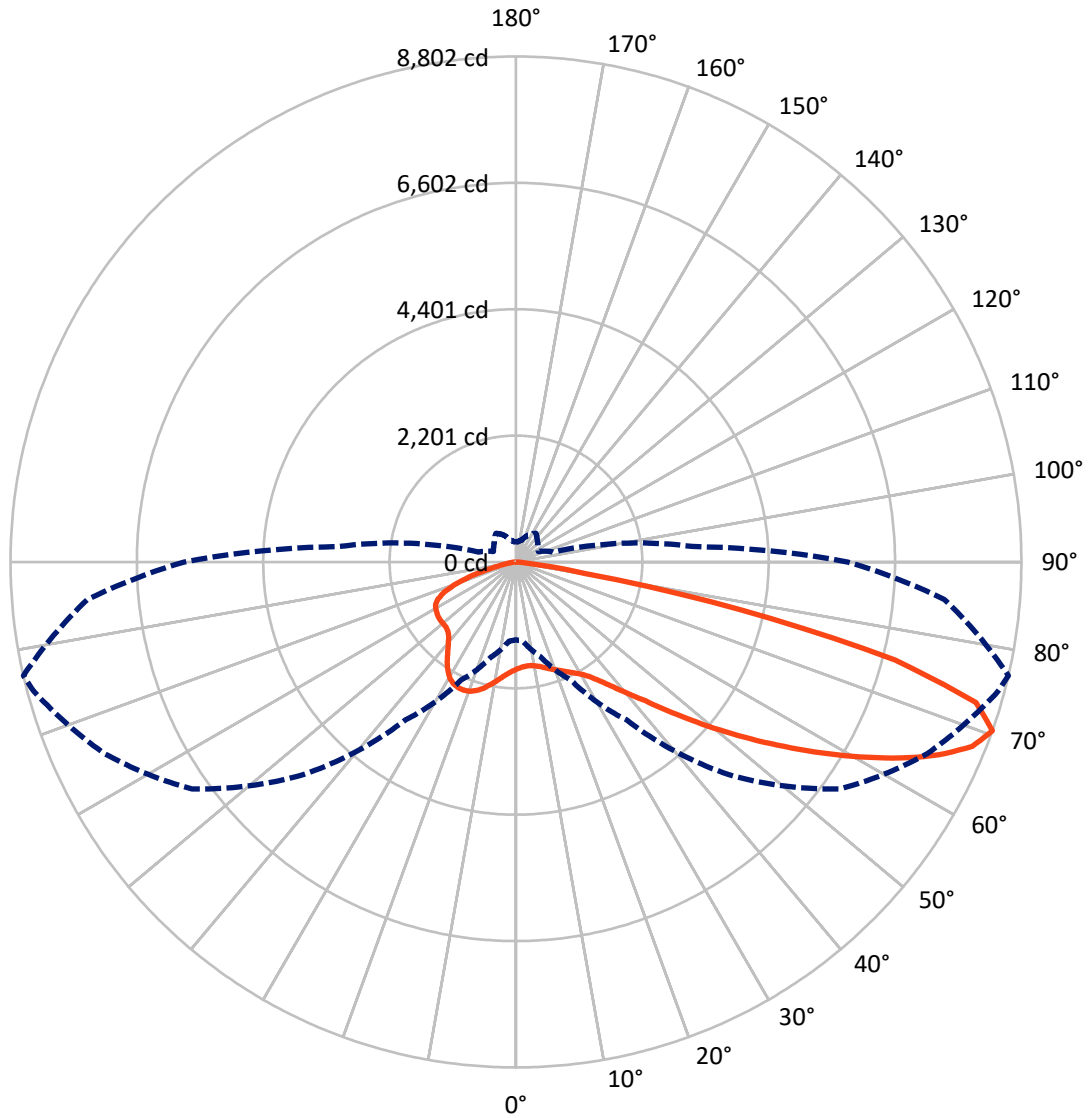
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2928.7	0.0	2928.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10445.3	0.0	10445.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	13374.0	0.0	13374.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.3
10°-20°	513.6	3.8
20°-30°	878.3	6.6
30°-40°	1412.4	10.6
40°-50°	2205.1	16.5
50°-60°	2945.4	22.0
60°-70°	3139.4	23.5
70°-80°	1932.6	14.5
80°-90°	169.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13374.0	100.0
0°-180°	13374.0	100.0



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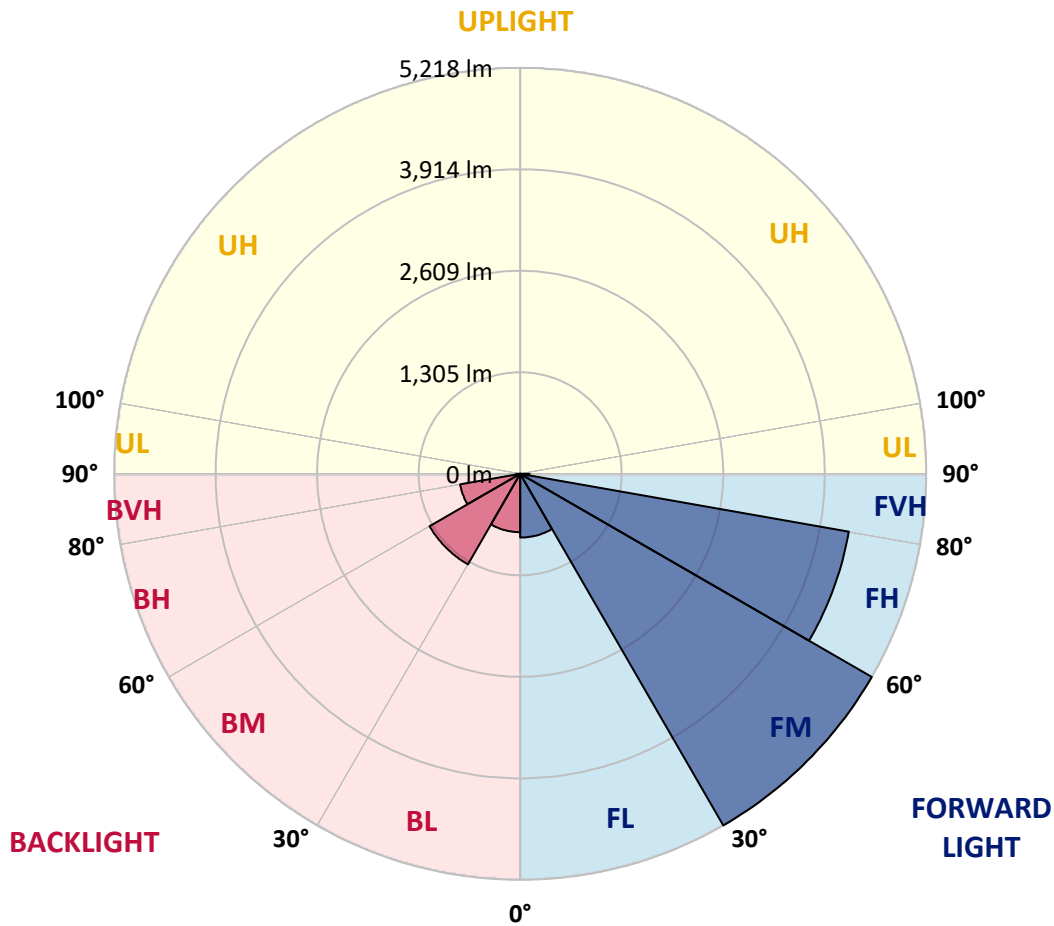
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.4	6.1			
FM (30°-60°)	5218.3	39.0			
FH (60°-80°)	4289.3	32.1			G2/5000
FVH (80°-90°)	118.4	0.9			G2/225
BL (0°-30°)	750.4	5.6	B2/1000		
BM (30°-60°)	1344.6	10.1	B2/2500		
BH (60°-80°)	782.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	50.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8
2.5°	1719.9	1719.2	1728.1	1730.9	1747.3	1758.9	1780.9	1804.1	1834.3	1837.7
5°	1620.6	1620.6	1630.9	1641.8	1663.1	1686.3	1719.9	1760.3	1812.4	1820.6
7.5°	1536.3	1541.8	1550.7	1572.0	1596.6	1630.2	1681.5	1739.1	1807.6	1820.6
10°	1468.5	1474.7	1485.6	1502.8	1539.8	1586.3	1653.5	1727.4	1819.2	1839.8
12.5°	1447.3	1453.5	1459.6	1472.6	1506.9	1561.7	1641.8	1732.9	1847.3	1867.8
15°	1496.6	1504.1	1499.3	1495.9	1513.7	1563.7	1647.3	1752.8	1882.2	1911.7
17.5°	1610.3	1613.0	1602.1	1569.9	1567.2	1593.9	1673.3	1780.2	1926.1	1958.3
20°	1793.9	1789.1	1766.5	1702.8	1666.5	1661.0	1717.8	1821.3	1971.3	2005.5
22.5°	2043.2	2037.7	1992.5	1891.8	1811.0	1757.6	1782.2	1874.7	2022.0	2060.3
25°	2354.2	2346.6	2280.2	2143.2	2017.9	1885.7	1869.9	1945.2	2084.3	2119.9
27.5°	2717.2	2711.0	2639.1	2458.3	2277.4	2061.0	1978.8	2028.1	2149.4	2189.8
30°	3107.6	3125.4	2998.0	2803.5	2574.7	2289.8	2125.4	2130.2	2233.6	2269.9
32.5°	3566.5	3597.3	3443.9	3197.3	2885.0	2538.4	2310.3	2272.7	2356.2	2386.4
35°	4021.3	4056.3	3928.9	3656.2	3296.6	2831.6	2503.5	2436.4	2519.2	2552.1
37.5°	4414.5	4461.1	4395.3	4158.3	3737.1	3185.0	2755.5	2628.8	2719.9	2761.0
40°	4724.8	4796.0	4791.2	4643.3	4256.3	3613.8	3075.4	2866.5	2969.2	3013.8
42.5°	4976.8	5038.5	5091.9	5084.4	4798.1	4100.8	3451.4	3175.4	3253.5	3304.9
45°	5150.8	5216.6	5331.6	5455.6	5319.3	4622.0	3882.3	3541.9	3613.1	3690.5
47.5°	5306.3	5380.9	5530.3	5726.8	5761.8	5145.3	4354.2	3968.6	4033.7	4113.8
50°	5320.0	5384.4	5615.9	5894.7	6076.2	5648.1	4861.1	4447.4	4508.3	4593.9
52.5°	4989.2	5090.5	5494.6	5889.9	6220.7	6068.6	5364.5	4945.3	5013.8	5116.6
55°	3872.7	4021.3	5139.2	5706.3	6169.3	6340.6	5843.3	5474.8	5562.5	5670.0
57.5°	3335.7	3400.8	4079.5	5372.0	5935.1	6411.1	6247.4	6009.7	6150.8	6268.6
60°	2998.0	3052.1	3453.5	4852.2	5626.8	6299.5	6559.7	6508.4	6752.2	6892.6
62.5°	2636.4	2687.7	3052.8	4051.5	5232.3	6113.8	6757.0	6968.6	7368.7	7522.1
65°	2277.4	2321.3	2671.3	3404.2	4730.9	5928.2	6859.1	7366.6	7939.2	8098.1
67.5°	1877.4	1913.7	2244.6	2872.0	4121.3	5674.1	6909.7	7679.6	8435.8	8572.1
70°	1354.8	1382.9	1724.7	2271.3	3356.2	5237.1	6889.2	7901.5	8693.3	8802.3
72.5°	640.4	665.8	1067.1	1474.7	2370.6	4386.4	6473.4	7725.5	8431.7	8377.6
75°	341.8	363.7	613.0	808.9	1252.1	3006.9	5297.4	6654.9	7080.3	6817.3
77.5°	231.5	248.6	379.5	485.6	571.9	1427.4	3404.9	4607.6	4433.0	3998.7
80°	183.6	201.4	311.0	328.8	276.7	515.8	1406.9	2132.9	1532.2	1225.4
82.5°	141.1	161.0	261.6	238.4	150.7	211.6	409.6	674.7	392.5	298.6
85°	86.3	107.5	205.5	152.1	84.9	96.6	139.0	187.7	119.9	100.0
87.5°	43.8	61.6	104.1	55.5	38.4	22.6	37.0	37.0	31.5	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1865.8	0°	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8
1856.2	2.5°	1872.6	1886.3	1909.6	1931.5	1948.7	1965.1	1981.6	1990.5	1993.2	2004.2
1866.5	5°	1894.6	1919.9	1965.1	2007.6	2034.3	2050.7	2062.4	2069.2	2070.6	2074.0
1894.6	7.5°	1935.0	1975.4	2038.4	2080.9	2100.7	2099.4	2094.6	2077.4	2070.6	2064.4
1935.7	10°	1991.8	2045.3	2122.7	2152.1	2139.8	2106.9	2064.4	2014.4	1991.1	1968.5
1991.8	12.5°	2062.4	2130.2	2206.2	2204.8	2143.9	2059.6	1961.0	1884.3	1835.7	1800.7
2061.0	15°	2148.0	2226.1	2284.3	2237.7	2104.2	1952.8	1808.3	1708.3	1664.4	1626.1
2130.9	17.5°	2236.4	2319.9	2346.6	2227.4	2004.2	1794.6	1630.9	1552.1	1508.9	1488.4
2206.2	20°	2322.7	2405.5	2383.6	2168.5	1852.1	1615.1	1469.2	1426.1	1417.2	1421.9
2279.5	22.5°	2413.8	2487.7	2391.1	2054.8	1658.3	1431.5	1351.4	1352.8	1372.6	1387.0
2356.2	25°	2506.9	2556.9	2371.3	1890.5	1450.0	1296.6	1276.7	1298.7	1337.7	1365.8
2442.5	27.5°	2596.6	2618.6	2328.1	1687.0	1271.3	1200.0	1203.5	1248.7	1307.6	1346.6
2547.3	30°	2698.0	2673.3	2245.3	1458.3	1147.3	1117.1	1145.9	1198.7	1257.6	1292.5
2679.5	32.5°	2812.4	2720.6	2113.7	1246.6	1059.6	1050.7	1098.0	1132.2	1158.2	1168.5
2854.9	35°	2954.9	2787.0	1945.2	1098.0	980.8	1002.1	1047.3	1030.2	1019.9	1014.4
3090.5	37.5°	3139.8	2876.8	1748.0	1001.4	917.1	967.1	985.6	932.2	891.8	871.9
3376.1	40°	3362.4	3008.3	1558.3	926.7	876.7	937.0	904.8	840.4	789.1	761.0
3697.3	42.5°	3609.7	3146.0	1398.7	870.6	854.1	912.3	845.2	768.5	685.6	676.7
4080.2	45°	3869.3	3287.7	1289.8	827.4	843.2	891.1	811.0	687.0	628.1	664.4
4464.5	47.5°	4128.9	3417.9	1224.0	795.2	837.7	867.1	780.8	641.8	600.0	652.8
4876.1	50°	4417.9	3534.3	1194.5	771.9	831.5	857.6	735.6	630.2	570.6	605.5
5302.2	52.5°	4704.9	3624.7	1172.6	748.6	822.6	850.0	713.7	616.5	534.9	537.0
5730.9	55°	4991.2	3683.6	1148.7	717.8	802.8	833.6	711.7	601.4	508.2	498.6
6184.4	57.5°	5296.7	3717.2	1119.2	683.6	768.5	791.8	709.6	589.7	500.0	484.3
6648.1	60°	5607.7	3766.5	1080.8	641.8	722.6	741.8	704.8	585.6	495.2	468.5
7085.1	62.5°	5886.4	3783.6	1035.0	602.1	663.7	692.5	694.5	582.2	482.2	436.3
7448.1	65°	6069.3	3709.7	954.8	556.9	600.0	641.8	674.7	570.6	458.9	413.0
7627.6	67.5°	6061.8	3498.7	829.5	498.6	538.4	585.6	645.9	550.7	430.8	384.3
7491.9	70°	5779.6	3082.3	670.6	430.8	470.6	525.4	608.9	521.2	397.3	352.7
6661.8	72.5°	4957.0	2412.4	487.0	351.4	391.8	463.0	561.0	485.6	363.0	324.7
4923.4	75°	3541.2	1526.7	330.1	269.9	304.8	392.5	501.4	443.8	331.5	326.0
2465.8	77.5°	1808.9	729.5	218.5	197.3	212.3	309.6	421.2	396.6	336.3	269.2
701.4	80°	588.4	269.2	137.7	134.2	141.1	206.2	326.0	325.3	254.8	182.9
169.9	82.5°	187.7	115.8	89.7	86.3	82.9	129.5	227.4	257.5	171.9	115.8
61.0	85°	74.7	69.2	52.7	48.6	34.9	61.0	119.2	171.2	128.1	83.6
15.8	87.5°	27.4	27.4	14.4	10.3	7.5	20.5	32.2	51.4	73.3	43.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1865.8
2010.3
2079.5
2065.8
1961.7
1792.5
1622.0
1494.6
1419.9
1390.4
1373.3
1356.2
1300.7
1174.0
1019.9
876.7
763.0
685.6
683.6
677.4
631.5
551.4
505.5
486.3
470.6
436.3
413.0
386.3
356.9
322.6
307.5
239.7
161.6
115.1
85.6
42.5
0.0

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