

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: P940867

Luminaire Tested: **GALN-SB4A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17208 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

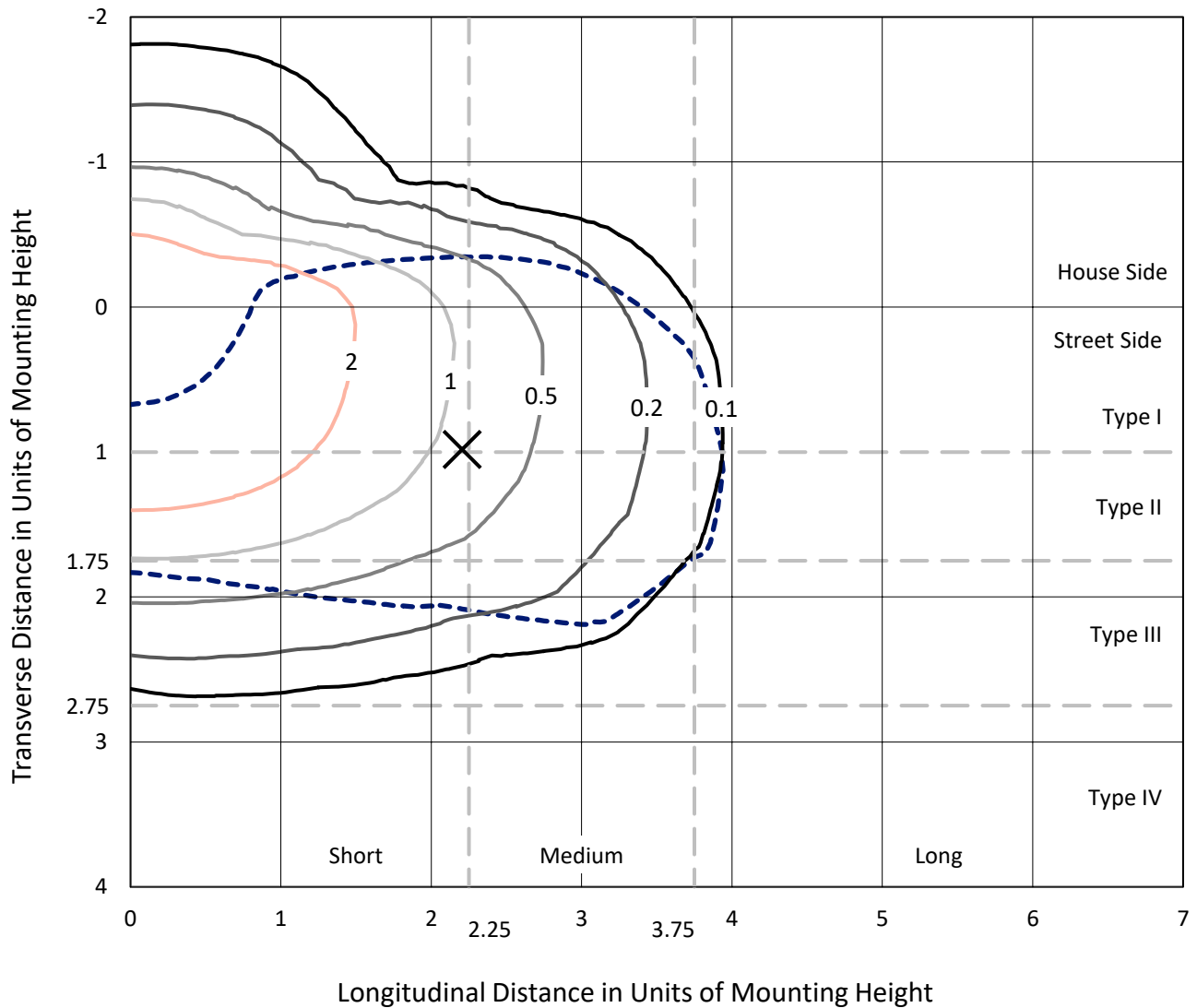
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

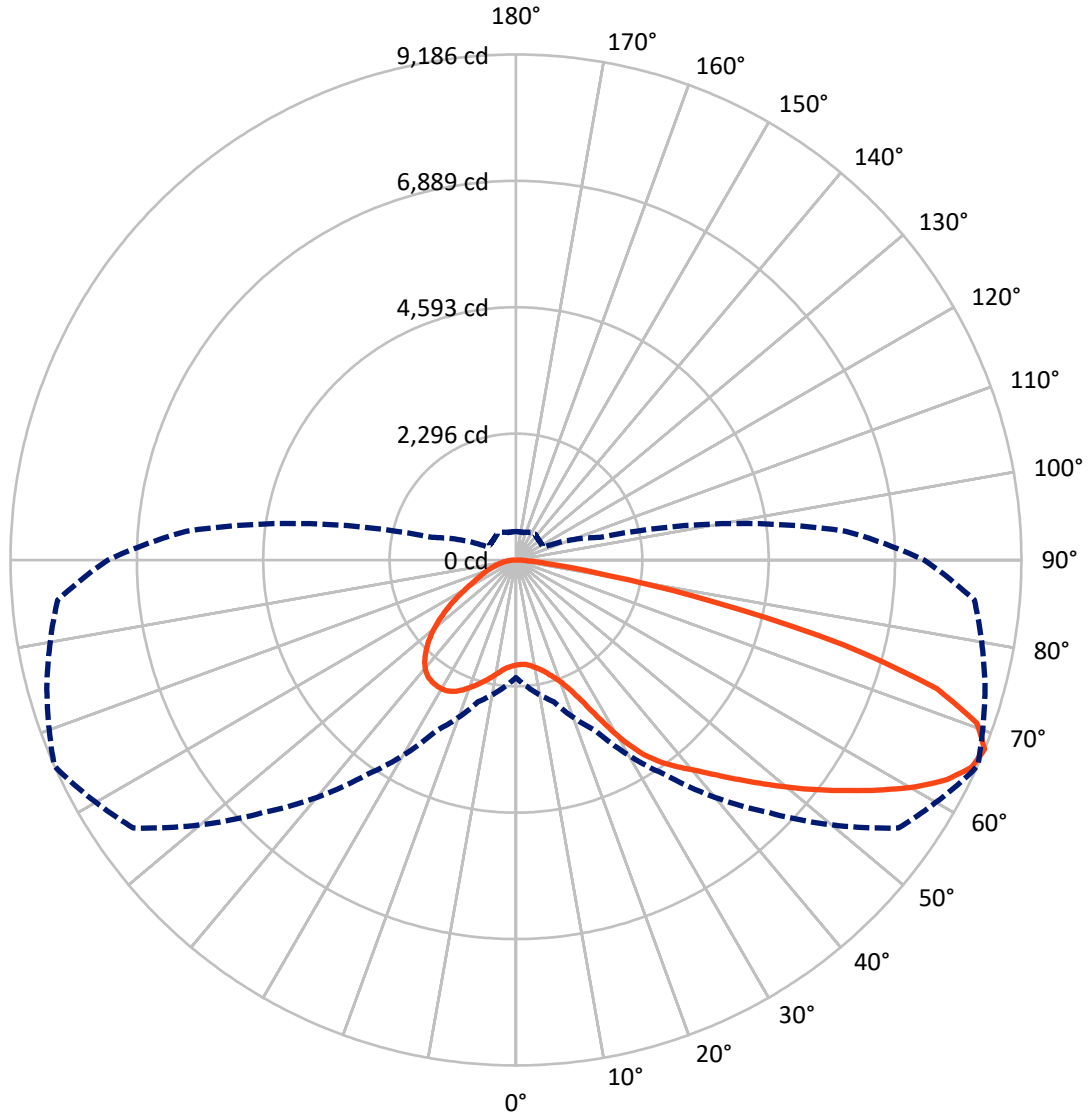
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4278.7	0.0	4278.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12929.3	0.0	12929.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	17208.0	0.0	17208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.1
10°-20°	625.2	3.6
20°-30°	1205.0	7.0
30°-40°	2112.8	12.3
40°-50°	3141.1	18.3
50°-60°	3981.6	23.1
60°-70°	3895.9	22.6
70°-80°	1858.4	10.8
80°-90°	198.6	1.2
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°	17208.0	100.0
0°-180°	17208.0	100.0

Coefficient of Utilization



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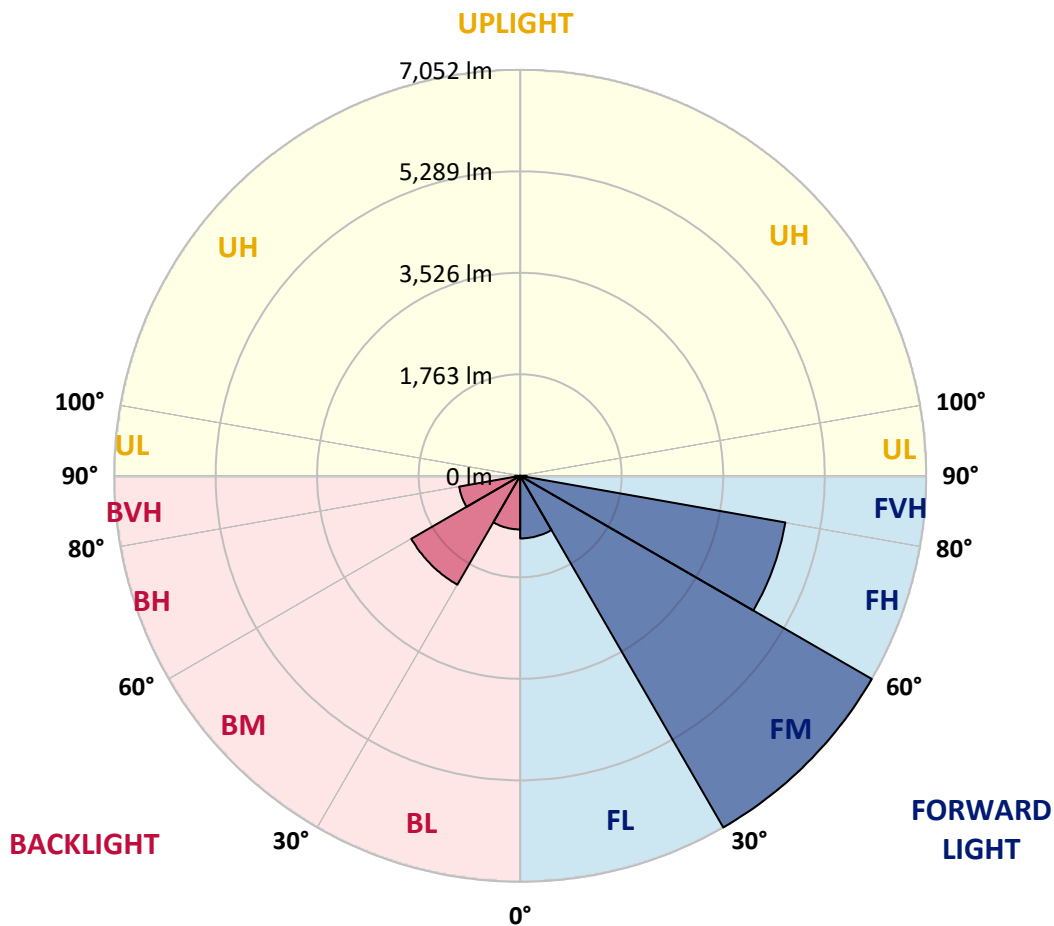
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.4	6.3			
FM (30°-60°)	7051.7	41.0			
FH (60°-80°)	4677.6	27.2			G2/5000
FVH (80°-90°)	112.6	0.7			G2/225
BL (0°-30°)	932.1	5.4	B2/1000		
BM (30°-60°)	2183.9	12.7	B2/2500		
BH (60°-80°)	1076.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	86.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6
2.5°	1888.7	1899.6	1896.8	1892.3	1891.4	1893.2	1895.9	1898.6	1897.7	1902.3
5°	1883.3	1894.1	1893.2	1893.2	1896.8	1904.1	1908.6	1913.1	1908.6	1914.0
7.5°	1886.9	1895.0	1898.6	1902.3	1911.3	1924.9	1935.7	1945.7	1940.2	1946.6
10°	1933.0	1939.3	1943.0	1943.0	1949.3	1964.6	1975.5	1993.6	1989.1	1999.0
12.5°	2017.1	2023.4	2023.4	2019.8	2024.3	2034.3	2037.9	2057.8	2049.6	2065.9
15°	2120.2	2132.8	2122.9	2116.5	2118.4	2128.3	2127.4	2142.8	2134.6	2148.2
17.5°	2234.1	2250.4	2234.1	2233.2	2229.6	2240.4	2241.3	2254.9	2240.4	2250.4
20°	2368.8	2391.4	2377.8	2382.4	2374.2	2378.7	2383.3	2403.1	2380.5	2387.8
22.5°	2558.7	2585.8	2571.3	2588.5	2583.1	2579.5	2578.5	2613.8	2578.5	2581.3
25°	2835.3	2867.9	2842.5	2866.1	2866.1	2877.8	2891.4	2936.6	2877.8	2860.6
27.5°	3244.0	3276.5	3226.8	3241.3	3236.7	3265.7	3251.2	3363.3	3300.0	3272.0
30°	3735.8	3793.7	3699.7	3696.0	3691.5	3737.6	3758.4	3832.6	3768.4	3740.3
32.5°	4267.4	4328.0	4215.9	4183.4	4166.2	4194.2	4177.0	4236.7	4192.4	4149.0
35°	4829.8	4889.5	4782.8	4719.5	4650.8	4592.0	4530.5	4545.9	4504.3	4438.3
37.5°	5361.4	5470.8	5357.8	5290.0	5163.4	5048.6	4876.8	4805.4	4766.5	4705.9
40°	5903.0	5965.4	5879.5	5821.6	5684.2	5504.3	5229.4	5078.4	5026.0	4967.2
42.5°	6301.7	6361.4	6315.3	6275.5	6167.9	5959.0	5603.7	5414.8	5338.8	5272.8
45°	6618.1	6662.5	6633.5	6648.0	6601.9	6399.4	5991.6	5775.5	5696.9	5616.4
47.5°	6745.6	6792.6	6838.8	6924.6	7003.3	6854.1	6408.4	6166.1	6082.9	6000.6
50°	6731.2	6779.1	6912.9	7095.5	7339.6	7289.9	6847.8	6582.0	6505.1	6411.1
52.5°	6615.4	6669.7	6841.5	7145.3	7534.0	7616.3	7295.3	7011.4	6939.1	6827.0
55°	6311.7	6344.2	6601.9	7032.2	7580.1	7844.1	7733.8	7468.9	7396.6	7240.2
57.5°	5748.4	5795.4	6170.6	6727.5	7464.4	7998.7	8119.0	7949.9	7880.3	7655.2
60°	5013.3	5088.4	5517.8	6215.8	7169.7	7997.8	8468.9	8422.8	8364.9	8063.8
62.5°	4181.5	4268.3	4681.5	5492.5	6654.3	7770.9	8687.7	8818.8	8788.9	8440.9
65°	3211.4	3271.1	3682.5	4556.8	5852.4	7283.6	8713.0	9089.1	9094.5	8727.5
67.5°	2138.2	2310.0	2667.2	3419.4	4778.3	6487.1	8490.6	9133.4	9185.8	8826.0
70°	1043.4	1269.4	1619.3	2222.3	3419.4	5265.6	7909.2	8770.0	8886.6	8538.5
72.5°	433.1	506.3	697.1	1096.7	1962.8	3553.2	6741.1	7784.5	8000.5	7565.7
75°	292.0	316.4	398.7	562.4	894.2	1752.2	4861.4	5804.4	6152.5	5714.0
77.5°	225.1	240.5	290.2	393.3	531.6	662.7	2602.1	3498.0	3678.0	3404.9
80°	177.2	189.0	217.0	286.6	377.0	354.4	886.9	1584.9	1688.9	1416.8
82.5°	153.7	158.2	155.5	194.4	250.4	207.0	291.1	585.0	645.5	468.3
85°	111.2	123.9	129.3	120.2	132.9	104.9	119.3	207.0	227.8	203.4
87.5°	45.2	66.9	82.3	77.8	48.8	29.8	37.1	60.6	69.6	75.9
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°
1908.6	0°	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6	1908.6
1909.5	2.5°	1910.4	1916.7	1921.3	1926.7	1930.3	1935.7	1946.6	1952.9	1953.8	1958.3
1924.0	5°	1927.6	1936.6	1946.6	1961.0	1977.3	1990.9	2011.7	2026.1	2031.6	2036.1
1959.2	7.5°	1964.6	1977.3	1995.4	2020.7	2044.2	2062.3	2087.6	2104.8	2122.0	2128.3
2015.3	10°	2019.8	2037.9	2064.1	2098.5	2123.8	2147.3	2173.5	2188.0	2205.1	2212.4
2082.2	12.5°	2088.5	2107.5	2141.9	2189.8	2213.3	2229.6	2238.6	2235.0	2238.6	2244.9
2162.7	15°	2167.2	2188.0	2226.8	2278.4	2294.7	2280.2	2260.3	2242.2	2239.5	2241.3
2260.3	17.5°	2260.3	2275.7	2320.9	2364.3	2352.5	2292.8	2249.4	2220.5	2206.0	2201.5
2385.1	20°	2390.5	2390.5	2427.6	2454.7	2376.0	2274.8	2207.0	2159.9	2130.1	2117.4
2555.0	22.5°	2548.7	2534.2	2557.8	2538.8	2371.5	2224.1	2130.1	2048.7	2003.5	1985.4
2792.8	25°	2749.4	2732.2	2725.9	2608.4	2339.0	2143.7	1990.9	1892.3	1852.5	1842.6
3135.5	27.5°	3052.3	3008.9	2926.6	2646.4	2279.3	2017.1	1828.1	1736.8	1714.2	1715.1
3575.8	30°	3455.5	3368.7	3167.1	2652.7	2181.6	1838.1	1661.8	1596.7	1585.8	1590.3
3945.6	32.5°	3828.9	3746.7	3413.0	2623.8	2031.6	1662.7	1512.6	1469.2	1452.9	1458.3
4227.7	35°	4121.9	4099.3	3640.9	2583.1	1847.1	1498.1	1378.8	1341.7	1310.1	1302.8
4493.5	37.5°	4398.5	4389.5	3811.8	2526.1	1664.5	1381.5	1271.2	1222.4	1176.3	1150.9
4787.3	40°	4702.3	4693.3	3923.9	2438.4	1502.6	1280.2	1174.5	1110.3	1053.3	1007.2
5120.0	42.5°	5044.1	4990.7	3977.2	2312.7	1365.2	1194.3	1095.8	1009.0	934.0	891.5
5496.1	45°	5417.5	5297.2	3976.3	2152.7	1249.5	1115.7	1011.7	888.7	819.1	779.4
5882.2	47.5°	5813.5	5590.2	3927.5	1975.5	1137.4	1028.9	881.5	787.5	741.4	717.0
6301.7	50°	6222.1	5864.1	3844.3	1772.1	1022.6	930.3	800.1	736.0	700.7	678.1
6717.6	52.5°	6606.4	6112.7	3744.0	1541.5	905.9	834.5	764.0	714.3	677.2	651.9
7120.8	55°	6963.5	6327.0	3602.0	1305.5	811.0	770.3	746.8	705.2	662.7	632.9
7530.4	57.5°	7280.9	6466.3	3357.0	1084.0	743.2	726.0	728.7	689.8	641.0	615.7
7933.6	60°	7544.9	6568.4	2994.4	878.8	688.0	682.6	700.7	660.9	604.0	575.0
8274.5	62.5°	7703.1	6566.6	2549.6	719.7	641.0	642.8	663.6	624.7	566.9	539.8
8452.6	65°	7689.5	6405.7	2061.4	615.7	595.8	597.6	624.7	585.0	536.1	519.9
8363.1	67.5°	7417.4	6013.3	1581.3	547.9	546.1	554.2	585.9	557.8	517.2	515.3
7829.7	70°	6680.5	5198.7	1139.2	493.6	494.6	506.3	547.9	540.7	507.2	510.8
6582.9	72.5°	5356.9	3963.7	764.9	436.7	437.6	456.6	511.7	527.1	497.3	545.2
4670.7	75°	3567.7	2471.9	491.8	376.1	377.0	401.4	480.1	500.9	470.1	543.4
2430.3	77.5°	1714.2	1111.2	356.2	316.4	316.4	339.0	415.0	448.4	400.5	422.2
781.2	80°	592.2	417.7	280.3	255.0	249.5	264.9	349.9	388.8	345.4	318.2
255.0	82.5°	233.3	217.0	225.1	198.0	179.9	189.9	272.1	321.0	254.1	229.6
143.8	85°	133.8	141.0	159.1	131.1	104.0	116.6	199.8	230.6	191.7	169.1
47.0	87.5°	36.2	49.7	73.2	67.8	47.0	49.7	94.9	127.5	110.3	85.0
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>
1908.6
1957.4
2035.2
2129.2
2216.0
2246.7
2247.6
2207.9
2114.7
1982.7
1844.4
1717.8
1605.7
1465.6
1308.3
1151.8
1011.7
894.2
777.5
711.5
670.0
641.0
621.1
599.4
562.4
531.6
519.0
518.1
509.9
552.4
547.9
387.0
298.4
228.7
172.7
87.7
0.0

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