

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: P939167

Luminaire Tested: **GALN-SB1C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939167
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-SB1C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7171 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

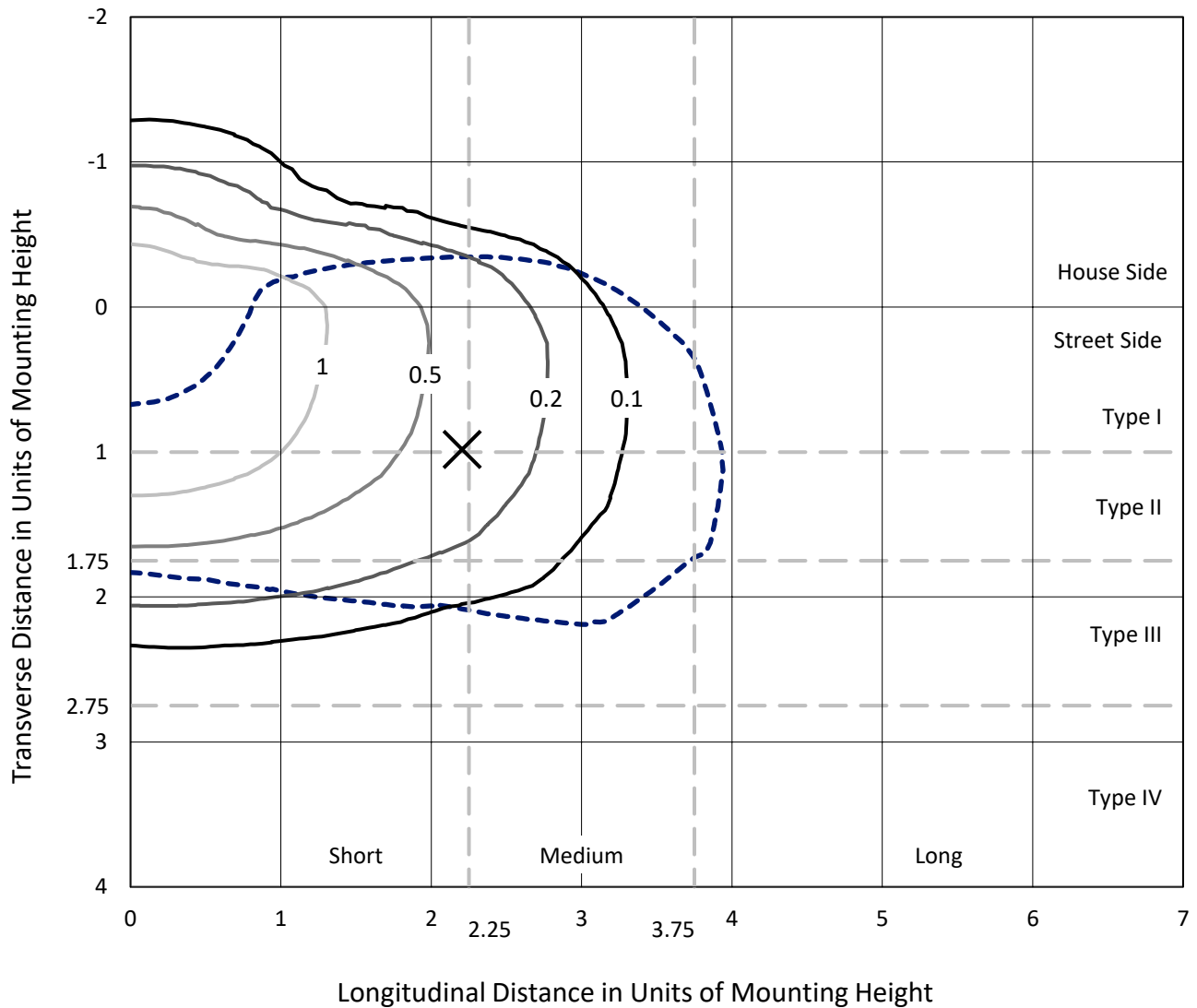
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

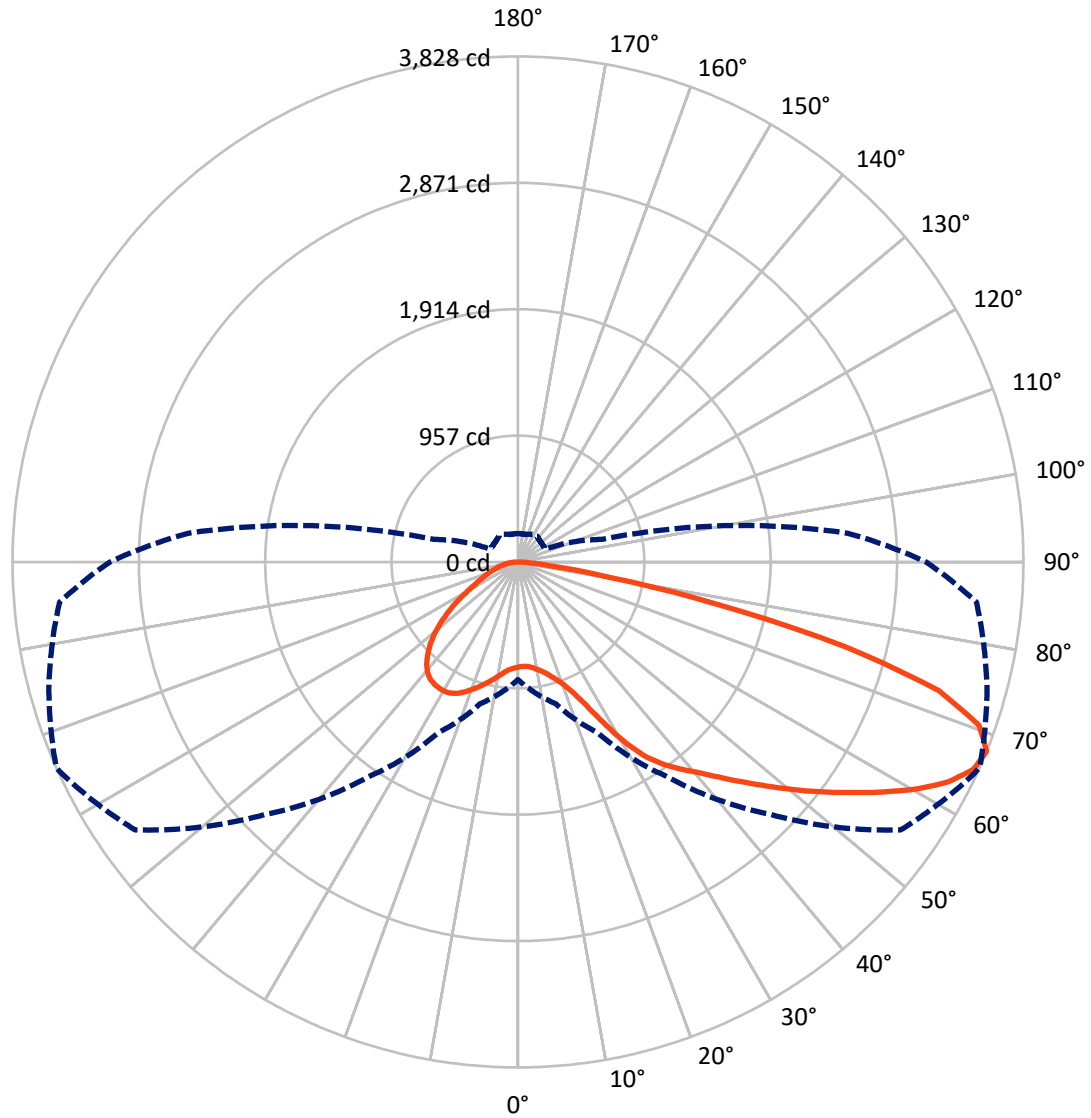
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	1783.0	0.0	1783.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5387.9	0.0	5387.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	7171.0	0.0	7171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.1
10°-20°	260.5	3.6
20°-30°	502.2	7.0
30°-40°	880.5	12.3
40°-50°	1309.0	18.3
50°-60°	1659.3	23.1
60°-70°	1623.5	22.6
70°-80°	774.4	10.8
80°-90°	82.8	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°	7171.0	100.0
0°-180°	7171.0	100.0

Coefficient of Utilization



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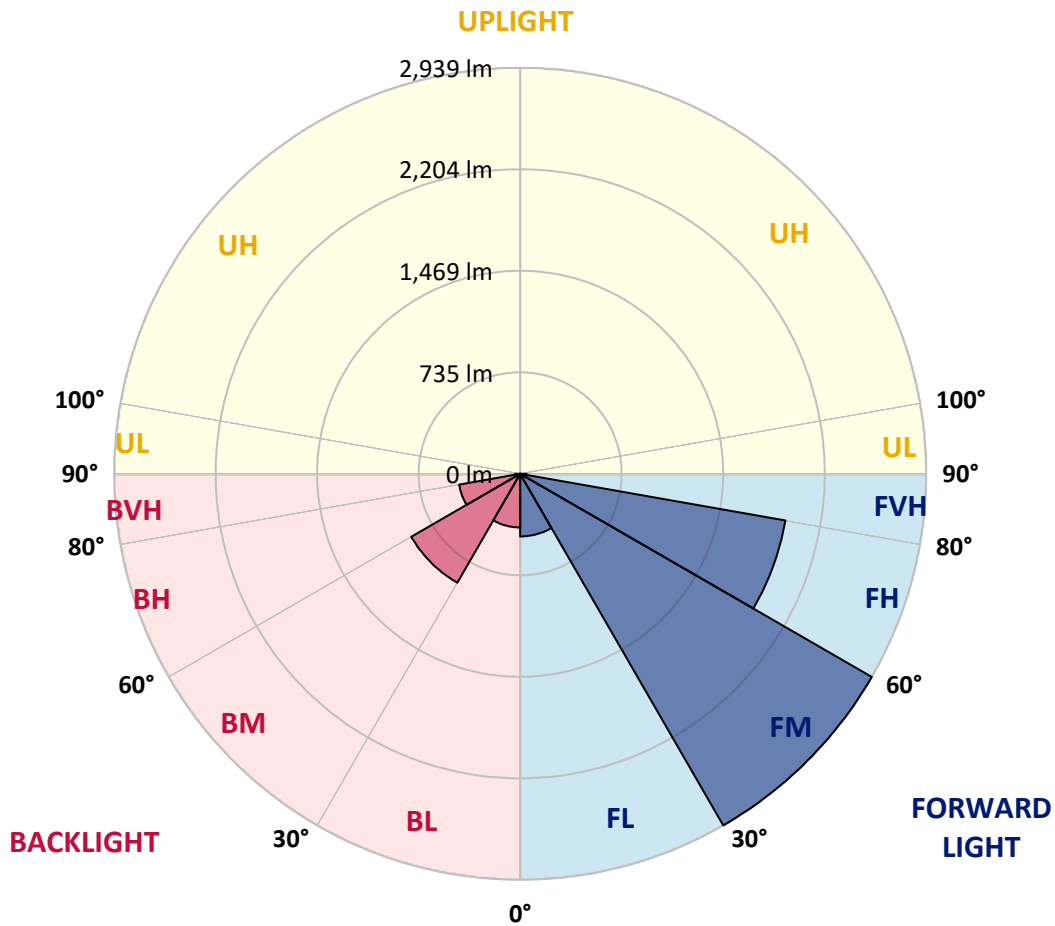
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.1	6.3			
FM (30°-60°)	2938.6	41.0			
FH (60°-80°)	1949.3	27.2			G2/5000
FVH (80°-90°)	46.9	0.7			G1/100
BL (0°-30°)	388.4	5.4	B1/500		
BM (30°-60°)	910.1	12.7	B1/1000		
BH (60°-80°)	448.7	6.3	B1/500		G1/500
BVH (80°-90°)	35.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
2.5°	787.1	791.6	790.5	788.6	788.2	789.0	790.1	791.2	790.8	792.7
5°	784.8	789.3	789.0	789.0	790.5	793.5	795.4	797.2	795.4	797.6
7.5°	786.3	789.7	791.2	792.7	796.5	802.1	806.7	810.8	808.5	811.2
10°	805.5	808.2	809.7	809.7	812.3	818.7	823.2	830.8	828.9	833.0
12.5°	840.6	843.2	843.2	841.7	843.6	847.7	849.2	857.5	854.1	860.9
15°	883.5	888.8	884.7	882.0	882.8	886.9	886.5	892.9	889.6	895.2
17.5°	931.0	937.8	931.0	930.6	929.1	933.6	934.0	939.7	933.6	937.8
20°	987.1	996.6	990.9	992.8	989.4	991.3	993.2	1001.5	992.0	995.0
22.5°	1066.3	1077.6	1071.5	1078.7	1076.4	1074.9	1074.5	1089.2	1074.5	1075.7
25°	1181.5	1195.1	1184.6	1194.4	1194.4	1199.3	1204.9	1223.7	1199.3	1192.1
27.5°	1351.8	1365.4	1344.7	1350.7	1348.8	1360.9	1354.9	1401.6	1375.2	1363.5
30°	1556.8	1580.9	1541.7	1540.2	1538.3	1557.6	1566.2	1597.1	1570.4	1558.7
32.5°	1778.3	1803.6	1756.9	1743.3	1736.2	1747.8	1740.7	1765.5	1747.1	1729.0
35°	2012.7	2037.6	1993.1	1966.7	1938.1	1913.6	1888.0	1894.4	1877.1	1849.6
37.5°	2234.2	2279.8	2232.7	2204.5	2151.7	2103.9	2032.3	2002.5	1986.3	1961.1
40°	2459.9	2485.9	2450.1	2426.0	2368.7	2293.8	2179.2	2116.3	2094.5	2070.0
42.5°	2626.1	2650.9	2631.7	2615.2	2570.3	2483.3	2335.2	2256.5	2224.8	2197.3
45°	2757.9	2776.4	2764.4	2770.4	2751.2	2666.8	2496.8	2406.8	2374.0	2340.5
47.5°	2811.1	2830.7	2849.9	2885.7	2918.5	2856.3	2670.5	2569.6	2534.9	2500.6
50°	2805.0	2825.0	2880.8	2956.9	3058.6	3037.9	2853.6	2742.9	2710.9	2671.7
52.5°	2756.8	2779.4	2851.0	2977.6	3139.6	3173.9	3040.1	2921.8	2891.7	2845.0
55°	2630.2	2643.8	2751.2	2930.5	3158.8	3268.8	3222.9	3112.5	3082.3	3017.2
57.5°	2395.5	2415.1	2571.4	2803.5	3110.6	3333.3	3383.4	3312.9	3283.9	3190.1
60°	2089.2	2120.5	2299.4	2590.3	2987.8	3332.9	3529.2	3510.0	3485.9	3360.4
62.5°	1742.6	1778.7	1950.9	2288.9	2773.0	3238.3	3620.4	3675.0	3662.6	3517.5
65°	1338.3	1363.1	1534.6	1898.9	2438.8	3035.2	3630.9	3787.7	3789.9	3636.9
67.5°	891.1	962.6	1111.5	1424.9	1991.2	2703.3	3538.2	3806.1	3828.0	3678.0
70°	434.8	529.0	674.8	926.1	1424.9	2194.3	3296.0	3654.7	3703.3	3558.2
72.5°	180.5	211.0	290.5	457.0	818.0	1480.7	2809.2	3244.0	3334.0	3152.8
75°	121.7	131.9	166.2	234.4	372.6	730.2	2025.9	2418.9	2563.9	2381.2
77.5°	93.8	100.2	120.9	163.9	221.5	276.2	1084.3	1457.7	1532.7	1418.9
80°	73.8	78.7	90.4	119.4	157.1	147.7	369.6	660.5	703.8	590.4
82.5°	64.1	65.9	64.8	81.0	104.4	86.3	121.3	243.8	269.0	195.2
85°	46.3	51.6	53.9	50.1	55.4	43.7	49.7	86.3	94.9	84.8
87.5°	18.8	27.9	34.3	32.4	20.3	12.4	15.4	25.2	29.0	31.6
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°
795.4	0°	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4	795.4
795.7	2.5°	796.1	798.7	800.6	802.9	804.4	806.7	811.2	813.8	814.2	816.1
801.8	5°	803.3	807.0	811.2	817.2	824.0	829.6	838.3	844.3	846.6	848.5
816.5	7.5°	818.7	824.0	831.5	842.1	851.9	859.4	870.0	877.1	884.3	886.9
839.8	10°	841.7	849.2	860.2	874.5	885.0	894.8	905.8	911.8	918.9	922.0
867.7	12.5°	870.3	878.2	892.6	912.5	922.3	929.1	932.9	931.4	932.9	935.5
901.2	15°	903.1	911.8	928.0	949.5	956.2	950.2	941.9	934.4	933.3	934.0
941.9	17.5°	941.9	948.3	967.2	985.3	980.4	955.5	937.4	925.3	919.3	917.4
993.9	20°	996.2	996.2	1011.6	1022.9	990.1	947.9	919.7	900.1	887.7	882.4
1064.7	22.5°	1062.1	1056.1	1065.9	1058.0	988.3	926.9	887.7	853.8	834.9	827.4
1163.8	25°	1145.8	1138.6	1136.0	1087.0	974.7	893.3	829.6	788.6	772.0	767.9
1306.6	27.5°	1272.0	1253.9	1219.6	1102.8	949.8	840.6	761.8	723.8	714.4	714.7
1490.1	30°	1440.0	1403.8	1319.8	1105.4	909.1	766.0	692.5	665.4	660.9	662.7
1644.2	32.5°	1595.6	1561.3	1422.3	1093.4	846.6	692.9	630.3	612.2	605.5	607.7
1761.8	35°	1717.7	1708.3	1517.2	1076.4	769.7	624.3	574.6	559.1	545.9	542.9
1872.5	37.5°	1833.0	1829.2	1588.5	1052.7	693.6	575.7	529.7	509.4	490.2	479.6
1995.0	40°	1959.6	1955.8	1635.2	1016.1	626.2	533.5	489.4	462.7	438.9	419.7
2133.6	42.5°	2102.0	2079.8	1657.4	963.8	568.9	497.7	456.6	420.5	389.2	371.5
2290.4	45°	2257.6	2207.5	1657.0	897.1	520.7	464.9	421.6	370.4	341.4	324.8
2451.3	47.5°	2422.6	2329.6	1636.7	823.2	474.0	428.8	367.3	328.2	309.0	298.8
2626.1	50°	2592.9	2443.7	1602.0	738.5	426.1	387.7	333.4	306.7	292.0	282.6
2799.4	52.5°	2753.0	2547.3	1560.2	642.4	377.5	347.8	318.4	297.6	282.2	271.7
2967.4	55°	2901.9	2636.6	1501.0	544.1	338.0	321.0	311.2	293.9	276.2	263.7
3138.1	57.5°	3034.1	2694.6	1398.9	451.7	309.7	302.5	303.7	287.5	267.1	256.6
3306.1	60°	3144.1	2737.2	1247.9	366.2	286.7	284.5	292.0	275.4	251.7	239.6
3448.2	62.5°	3210.1	2736.5	1062.5	299.9	267.1	267.9	276.5	260.3	236.2	224.9
3522.4	65°	3204.4	2669.4	859.0	256.6	248.3	249.0	260.3	243.8	223.4	216.6
3485.1	67.5°	3091.0	2505.9	659.0	228.3	227.6	231.0	244.1	232.5	215.5	214.8
3262.8	70°	2783.9	2166.4	474.7	205.7	206.1	211.0	228.3	225.3	211.4	212.9
2743.3	72.5°	2232.4	1651.8	318.7	182.0	182.4	190.3	213.3	219.7	207.2	227.2
1946.4	75°	1486.7	1030.1	205.0	156.7	157.1	167.3	200.1	208.7	195.9	226.4
1012.8	77.5°	714.4	463.0	148.4	131.9	131.9	141.3	172.9	186.9	166.9	176.0
325.5	80°	246.8	174.1	116.8	106.2	104.0	110.4	145.8	162.0	143.9	132.6
106.2	82.5°	97.2	90.4	93.8	82.5	75.0	79.1	113.4	133.8	105.9	95.7
59.9	85°	55.8	58.8	66.3	54.6	43.3	48.6	83.3	96.1	79.9	70.5
19.6	87.5°	15.1	20.7	30.5	28.3	19.6	20.7	39.6	53.1	46.0	35.4
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

180°
795.4
815.7
848.1
887.3
923.5
936.3
936.6
920.1
881.3
826.3
768.6
715.9
669.1
610.7
545.2
480.0
421.6
372.6
324.0
296.5
279.2
267.1
258.8
249.8
234.4
221.5
216.3
215.9
212.5
230.2
228.3
161.3
124.3
95.3
72.0
36.5
0.0

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