

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: P939512

Luminaire Tested: **GALN-SB2A-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

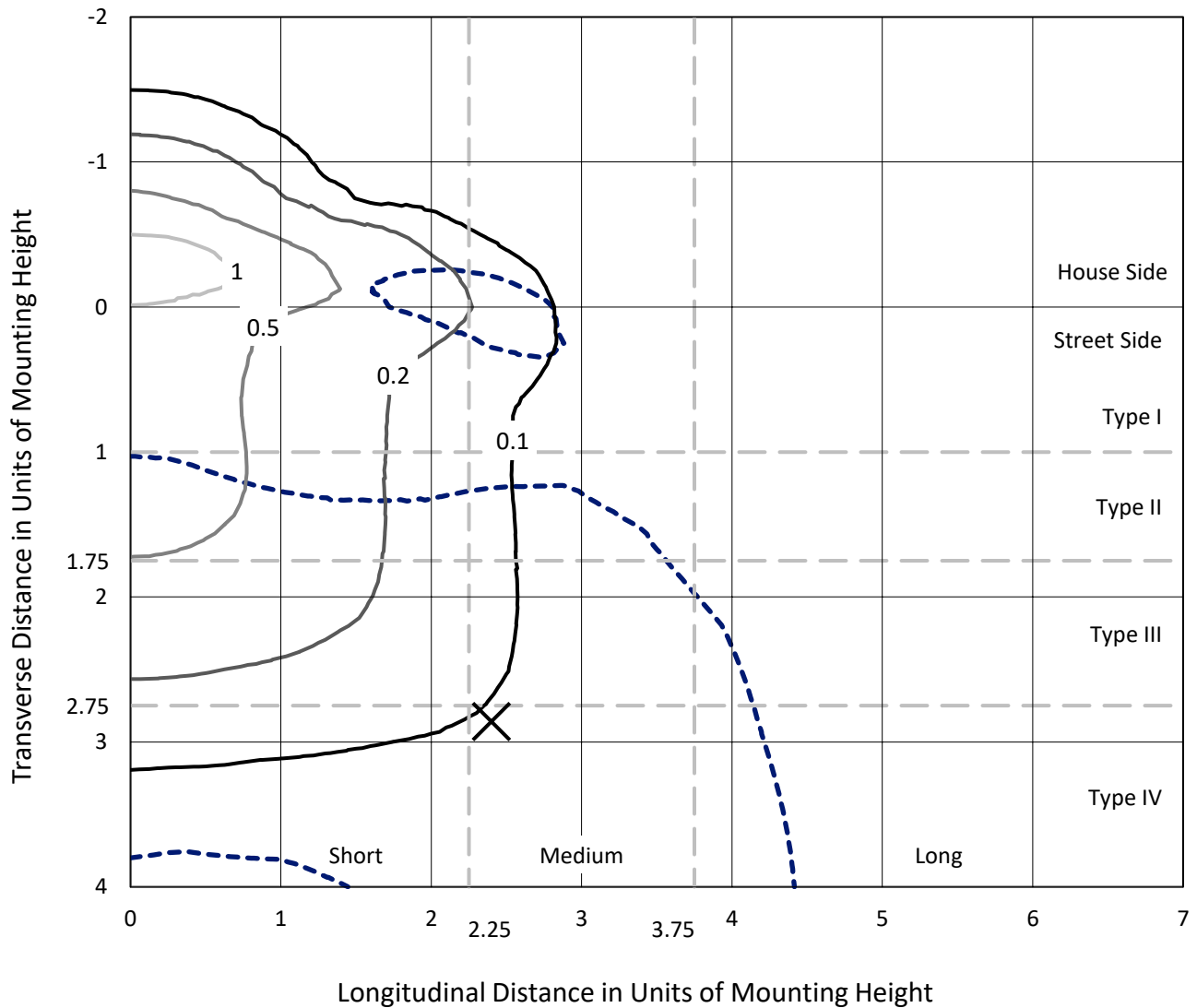
Lumens per Lamp: N/A  
Luminaire Lumens: 5413 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P939512  
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### Iso-Footcandle Lines of Horizontal Illumination

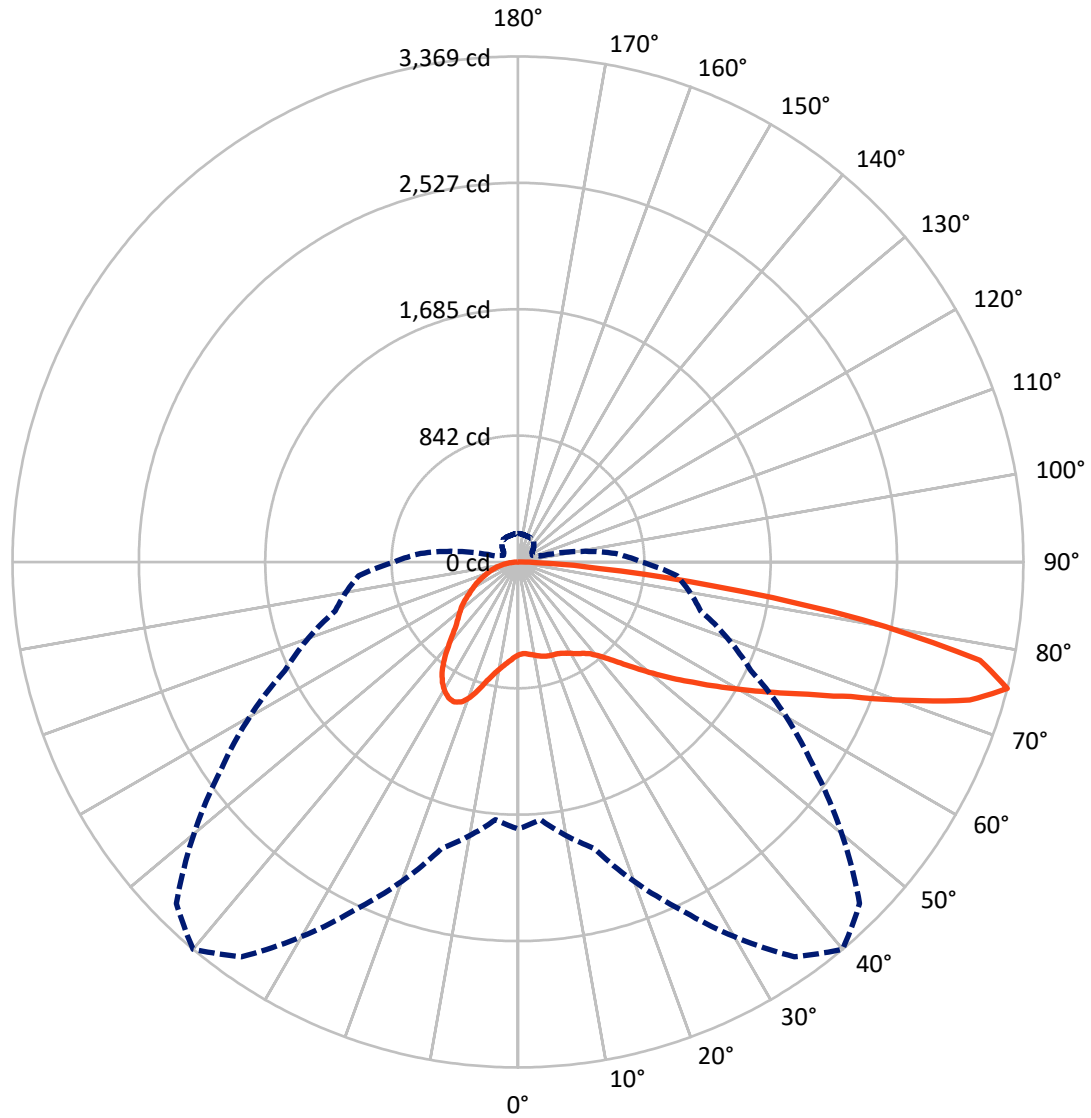
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1677.1	0.0	1677.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	3735.9	0.0	3735.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5413.0	0.0	5413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	1.1
10°-20°	207.4	3.8
20°-30°	378.8	7.0
30°-40°	537.2	9.9
40°-50°	725.4	13.4
50°-60°	975.9	18.0
60°-70°	1238.6	22.9
70°-80°	1124.1	20.8
80°-90°	163.9	3.0
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°	5413.0	100.0
0°-180°	5413.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939512

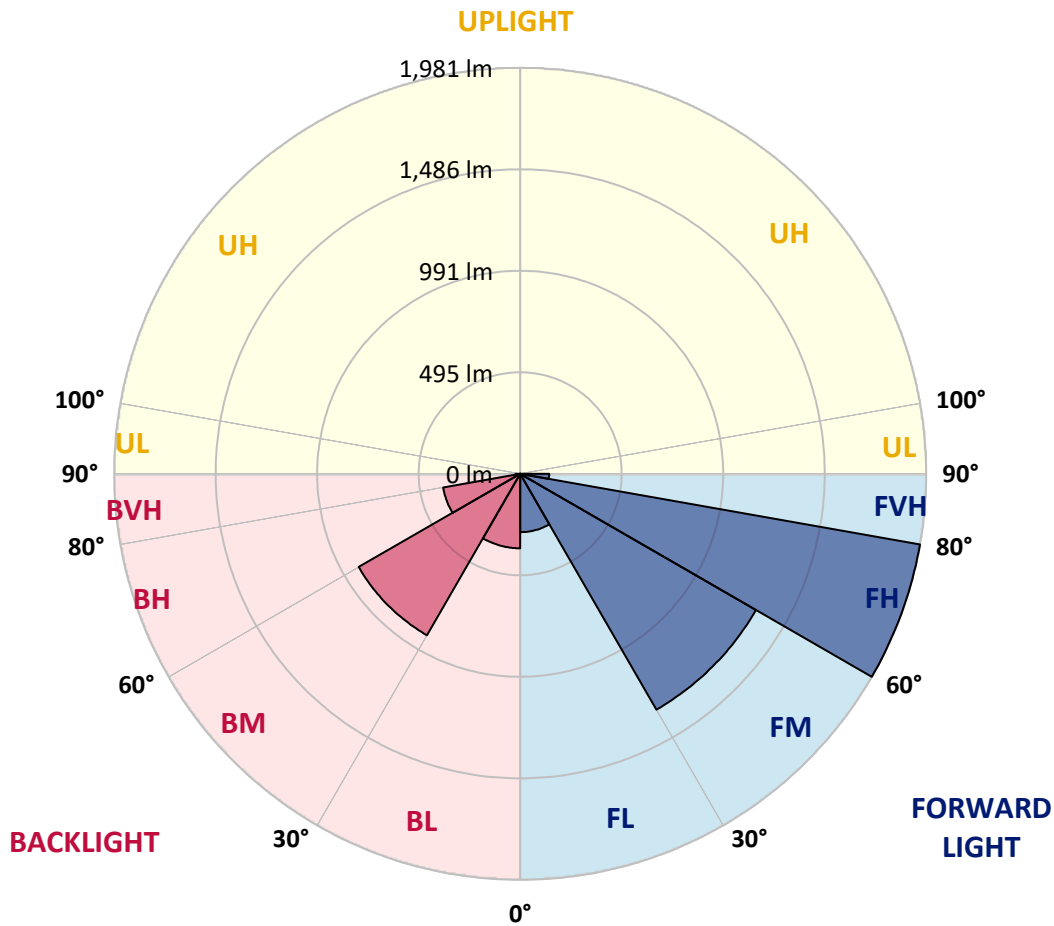
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.7	5.3			
FM (30°-60°)	1328.8	24.5			
FH (60°-80°)	1981.1	36.6			G2/5000
FVH (80°-90°)	141.3	2.6			G2/225
BL (0°-30°)	363.3	6.7	B1/500		
BM (30°-60°)	909.7	16.8	B1/1000		
BH (60°-80°)	381.6	7.0	B1/500		G1/500
BVH (80°-90°)	22.6	0.4			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 IV Medium



REPORT NUMBER: P939512

CATALOG NUMBER: GALN-SB2A-927-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
2.5°	609.5	613.0	612.1	610.9	610.9	611.2	610.9	613.0	615.0	617.0
5°	615.8	619.3	617.5	616.1	615.0	614.7	613.8	613.5	614.7	617.3
7.5°	628.2	631.6	629.0	626.4	624.2	623.0	621.9	620.1	619.3	620.7
10°	642.0	645.4	642.2	637.6	633.9	632.5	631.3	629.6	628.5	629.3
12.5°	655.7	659.2	654.9	648.6	643.7	642.8	641.4	640.8	640.5	640.2
15°	668.7	671.5	666.1	658.6	653.4	652.0	650.6	651.4	652.9	654.6
17.5°	678.7	681.6	673.5	663.8	658.9	658.3	657.5	660.3	664.3	668.7
20°	687.9	690.8	680.4	667.2	661.5	661.5	661.8	667.8	673.5	679.8
22.5°	700.8	703.1	690.5	672.4	664.1	664.6	666.9	673.0	680.1	688.7
25°	720.0	721.8	706.3	682.1	672.7	674.4	676.4	679.3	686.2	696.2
27.5°	751.0	752.5	732.1	699.4	685.0	687.9	690.8	688.7	691.9	700.5
30°	794.7	795.5	769.7	726.4	706.0	707.4	708.0	699.7	693.6	700.5
32.5°	846.4	846.1	815.4	759.1	729.8	728.4	723.5	707.1	693.1	699.1
35°	926.5	923.3	883.7	805.0	756.8	747.9	736.4	715.4	695.9	697.6
37.5°	1059.1	1049.3	994.5	880.2	797.0	774.3	757.4	728.9	702.2	697.1
40°	1208.7	1196.3	1136.0	983.3	857.3	820.8	793.5	748.2	712.6	699.7
42.5°	1386.1	1368.6	1303.7	1104.8	933.6	880.8	839.8	772.6	727.8	708.0
45°	1604.0	1580.8	1488.9	1241.7	1029.8	959.5	904.6	809.6	751.0	724.1
47.5°	1824.2	1830.0	1699.3	1398.5	1145.2	1056.5	985.9	865.3	784.9	749.9
50°	2058.2	2062.2	1908.6	1572.1	1276.2	1166.2	1077.2	927.6	832.0	786.6
52.5°	2240.8	2241.4	2098.7	1753.9	1412.5	1286.8	1175.7	998.8	886.6	835.5
55°	2355.1	2353.6	2231.9	1925.9	1569.3	1413.4	1284.8	1079.8	953.2	892.9
57.5°	2438.0	2433.7	2323.8	2073.7	1736.4	1563.0	1408.2	1171.6	1031.8	961.2
60°	2469.6	2467.0	2386.1	2201.5	1912.1	1728.3	1550.6	1274.4	1121.1	1041.9
62.5°	2481.7	2486.6	2447.2	2325.2	2100.1	1911.5	1707.1	1397.3	1221.6	1133.2
65°	2524.2	2533.1	2525.0	2487.1	2312.6	2126.0	1914.7	1543.4	1331.3	1231.1
67.5°	2608.3	2617.2	2620.6	2680.9	2572.1	2393.3	2173.6	1725.5	1459.6	1332.7
70°	2606.3	2603.7	2664.6	2835.1	2897.1	2763.3	2522.7	1949.4	1612.6	1417.1
72.5°	2372.3	2351.6	2495.5	2833.4	3167.6	3149.8	2949.1	2238.2	1744.7	1427.5
75°	1779.7	1724.6	1978.7	2553.5	3212.6	3369.1	3220.1	2417.4	1713.4	1261.2
77.5°	761.1	705.7	1005.1	1890.3	2875.3	3149.5	2971.5	2109.0	1367.7	834.0
80°	199.2	199.0	303.7	857.0	1955.4	2325.8	2040.4	1362.0	781.5	298.0
82.5°	82.4	80.4	111.7	333.3	955.5	1305.1	1065.1	607.5	282.2	80.7
85°	30.7	30.4	54.3	115.1	337.1	538.3	389.6	155.3	70.3	39.3
87.5°	8.6	8.3	11.8	39.9	82.1	124.6	66.6	25.6	19.8	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939512  
 CATALOG NUMBER: GALN-SB2A-927-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
619.0	0°	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0	619.0
620.1	2.5°	621.0	622.4	625.0	627.0	629.6	632.5	636.5	639.1	641.7	643.4
621.6	5°	623.6	626.7	633.3	639.9	647.7	654.9	663.2	669.2	674.1	675.5
626.7	7.5°	629.3	634.5	645.7	656.9	669.2	681.0	693.1	703.4	711.7	714.9
635.9	10°	639.4	646.3	662.0	677.8	694.2	712.3	727.8	742.7	754.5	759.4
646.8	12.5°	652.0	660.6	681.3	703.1	725.8	750.8	770.9	789.2	803.9	810.5
662.0	15°	668.4	679.6	706.0	735.3	768.6	803.3	828.9	849.2	865.6	873.6
677.8	17.5°	686.2	701.1	734.4	778.6	826.3	871.9	901.8	916.7	933.6	941.4
692.5	20°	703.4	721.8	769.4	833.7	897.2	945.7	969.8	973.8	975.0	975.8
706.3	22.5°	721.2	745.9	813.3	903.2	971.3	1004.8	1008.3	991.1	966.9	955.7
719.8	25°	740.7	773.4	870.8	979.9	1035.0	1039.0	1012.6	970.7	925.0	904.1
730.7	27.5°	759.7	805.3	939.7	1053.1	1080.9	1045.6	988.8	929.3	874.2	852.1
738.4	30°	778.6	841.8	1015.8	1117.1	1101.9	1029.2	951.2	884.8	829.4	806.2
745.3	32.5°	797.8	884.3	1103.3	1163.3	1098.2	994.5	904.4	834.9	786.1	761.7
751.3	35°	819.7	936.5	1186.3	1188.6	1073.2	943.4	842.6	775.2	732.7	713.2
758.5	37.5°	848.1	1002.8	1259.5	1194.9	1029.5	868.5	766.0	704.5	669.5	660.6
769.1	40°	883.4	1082.6	1315.5	1184.9	964.9	777.5	682.1	633.1	613.2	615.3
783.5	42.5°	929.3	1171.9	1354.8	1159.0	875.1	683.6	608.6	586.8	596.3	604.3
805.0	45°	989.1	1264.7	1379.2	1115.1	773.4	604.1	565.3	570.5	577.6	578.5
839.8	47.5°	1065.4	1358.5	1395.3	1048.8	669.8	548.1	537.7	538.9	537.4	531.4
891.7	50°	1160.7	1449.8	1409.7	960.9	581.7	513.0	499.3	495.2	475.4	455.9
960.9	52.5°	1269.3	1533.7	1415.7	851.8	513.0	483.8	461.4	436.1	399.1	393.0
1047.9	55°	1389.8	1611.2	1400.2	717.7	455.3	446.2	412.3	381.8	377.8	372.7
1162.5	57.5°	1534.0	1694.7	1368.6	568.2	396.2	402.2	369.2	372.7	365.5	357.4
1309.7	60°	1691.6	1781.2	1313.2	431.8	335.0	347.4	358.0	357.7	355.7	349.1
1465.1	62.5°	1833.4	1838.0	1204.1	330.7	281.4	304.9	333.9	333.6	331.9	328.2
1627.3	65°	1917.8	1829.4	1022.1	260.4	237.1	269.9	301.2	303.5	303.7	303.5
1749.3	67.5°	1902.9	1728.6	772.3	207.3	200.7	234.3	268.7	271.9	274.2	274.8
1764.8	70°	1734.1	1507.3	503.6	165.4	168.2	203.0	238.0	241.2	243.2	245.5
1531.4	72.5°	1351.7	1108.2	288.2	133.8	139.8	176.0	207.6	211.3	212.5	216.8
1065.7	75°	823.7	651.7	155.6	105.4	114.8	150.4	177.4	181.7	183.7	188.9
523.4	77.5°	391.6	282.2	88.7	82.1	92.4	122.9	149.9	154.7	149.3	152.2
144.4	80°	132.4	104.8	56.0	62.6	70.6	95.9	120.0	124.9	113.4	112.8
47.9	82.5°	46.2	42.5	35.6	41.6	45.6	68.6	90.7	97.0	84.4	84.1
21.5	85°	18.1	17.2	19.8	22.7	27.3	42.2	59.7	62.9	52.0	41.9
6.3	87.5°	3.7	4.0	4.9	5.2	8.3	14.6	21.5	26.4	21.0	17.8
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>
619.0
642.2
676.1
715.2
759.7
810.5
873.1
941.1
978.1
958.9
907.2
854.7
808.8
764.8
717.5
666.9
622.1
611.8
584.2
536.0
458.5
395.0
373.5
356.0
346.8
326.7
303.5
275.3
246.6
218.5
189.5
149.9
111.7
80.1
41.3
16.4
0.0

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