

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: P945415

Luminaire Tested: **GALN-SB1B-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945415
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-SB1B-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5531 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

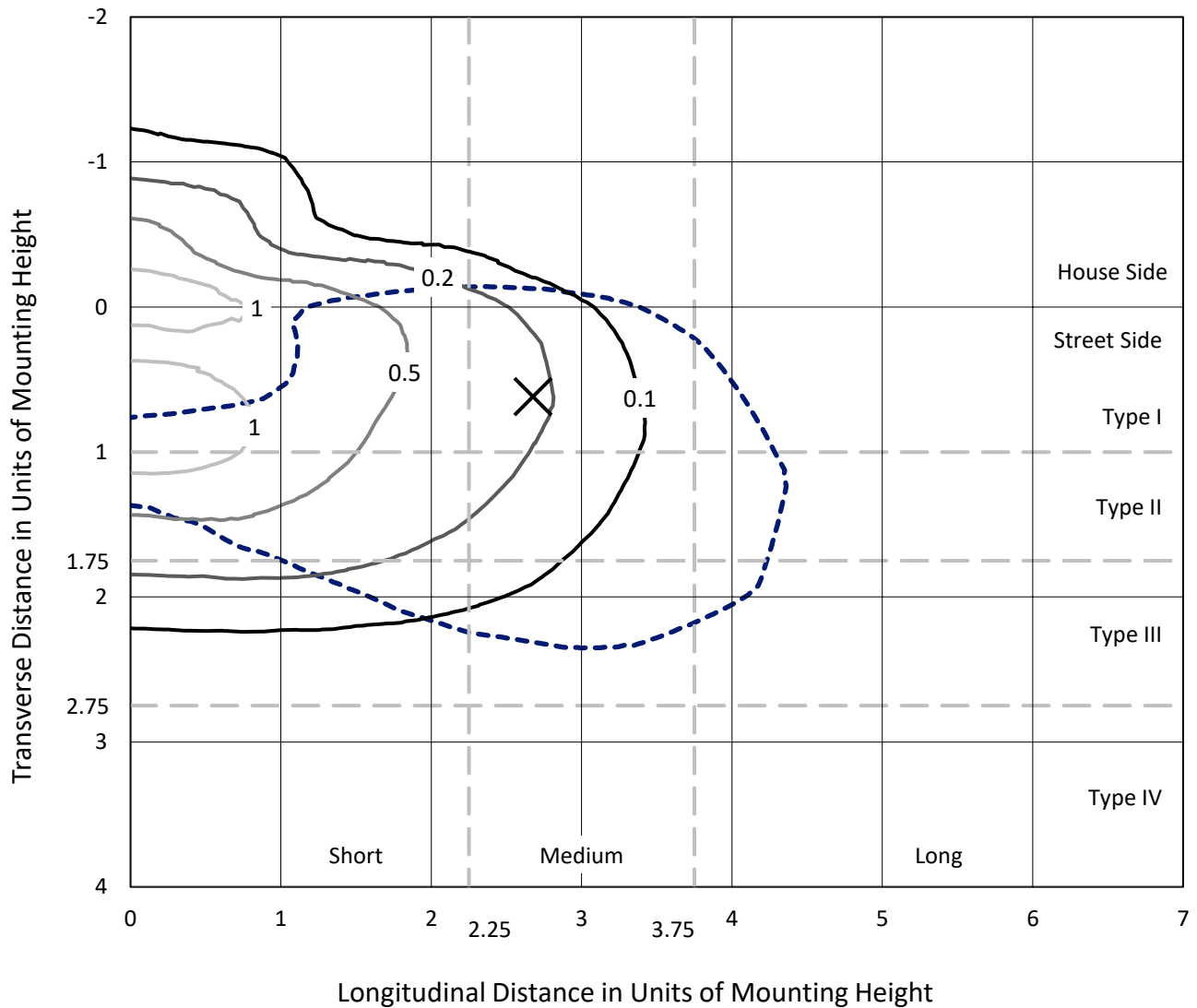
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

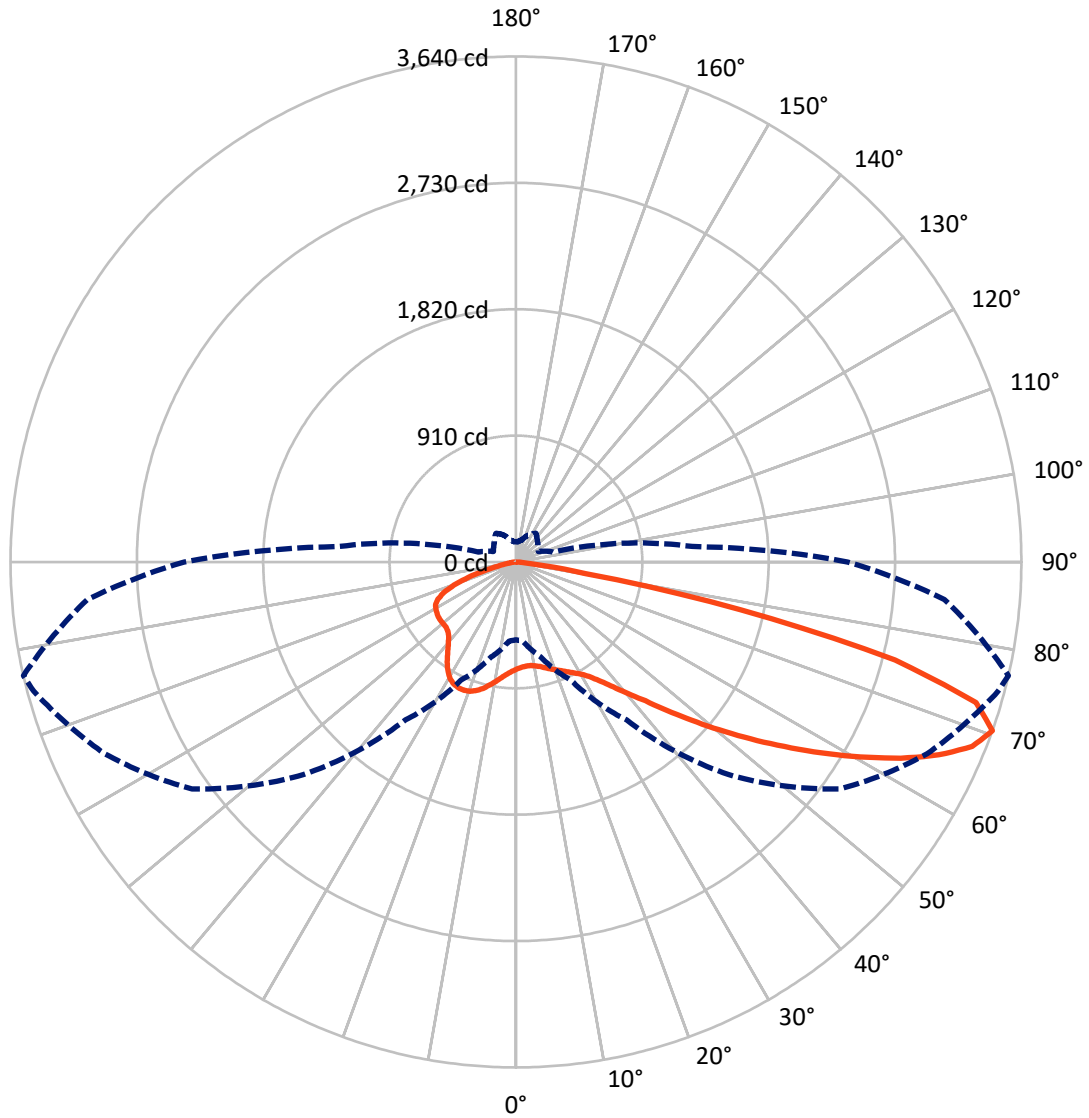
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	1211.2	0.0	1211.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4319.8	0.0	4319.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	5531.0	0.0	5531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.3
10°-20°	212.4	3.8
20°-30°	363.2	6.6
30°-40°	584.1	10.6
40°-50°	911.9	16.5
50°-60°	1218.1	22.0
60°-70°	1298.3	23.5
70°-80°	799.2	14.5
80°-90°	70.0	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°	5531.0	100.0
0°-180°	5531.0	100.0



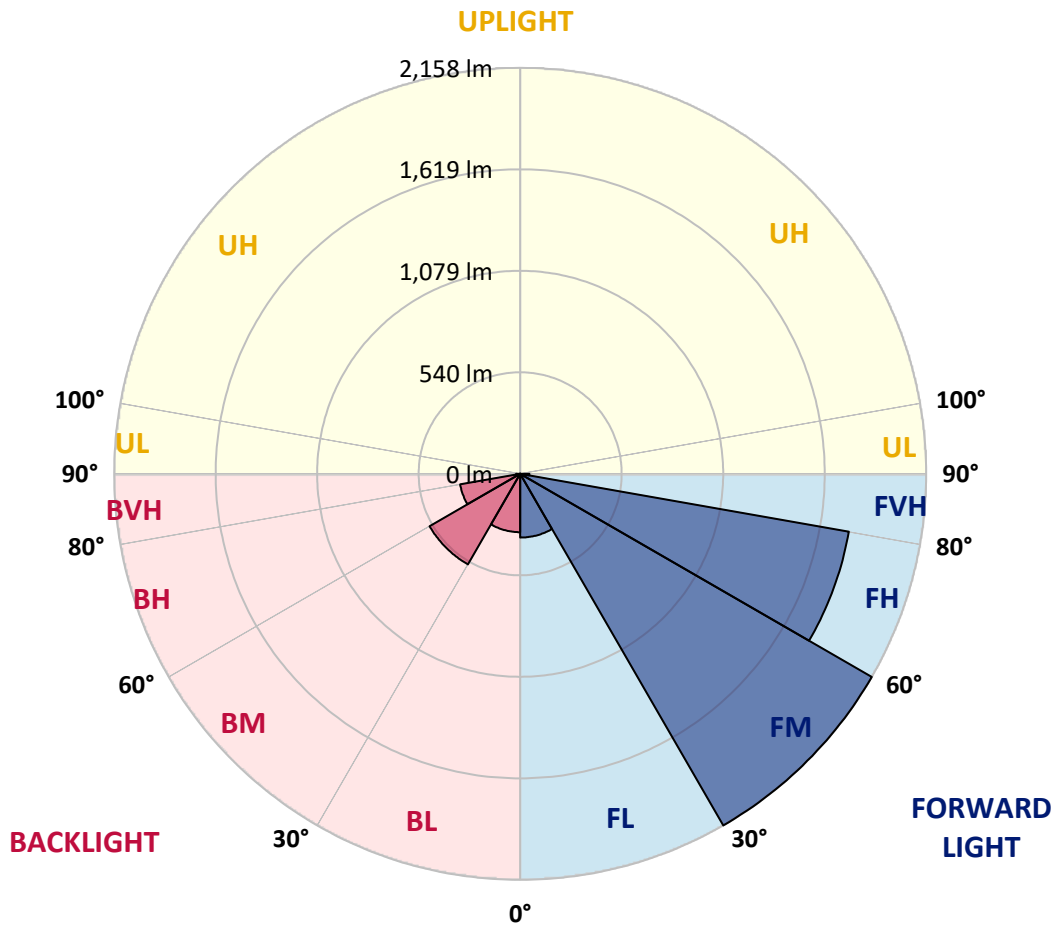
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.9	6.1			
FM (30°-60°)	2158.1	39.0			
FH (60°-80°)	1773.9	32.1			G1/1800
FVH (80°-90°)	49.0	0.9			G1/100
BL (0°-30°)	310.3	5.6	B1/500		
BM (30°-60°)	556.1	10.1	B1/1000		
BH (60°-80°)	323.7	5.9	B1/500		G1/500
BVH (80°-90°)	21.1	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6
2.5°	711.3	711.0	714.7	715.8	722.6	727.4	736.5	746.1	758.6	760.0
5°	670.2	670.2	674.5	679.0	687.8	697.4	711.3	728.0	749.5	752.9
7.5°	635.4	637.6	641.3	650.1	660.3	674.2	695.4	719.2	747.5	752.9
10°	607.3	609.9	614.4	621.5	636.8	656.1	683.8	714.4	752.4	760.9
12.5°	598.5	601.1	603.6	609.0	623.2	645.9	679.0	716.7	764.0	772.5
15°	618.9	622.1	620.1	618.7	626.0	646.7	681.3	724.9	778.4	790.6
17.5°	666.0	667.1	662.6	649.3	648.1	659.2	692.0	736.2	796.6	809.9
20°	741.9	739.9	730.6	704.2	689.2	686.9	710.4	753.2	815.2	829.4
22.5°	845.0	842.7	824.0	782.4	749.0	726.9	737.1	775.3	836.2	852.1
25°	973.6	970.5	943.0	886.3	834.5	779.8	773.3	804.5	862.0	876.7
27.5°	1123.7	1121.2	1091.4	1016.7	941.9	852.4	818.4	838.8	888.9	905.6
30°	1285.2	1292.6	1239.9	1159.4	1064.8	947.0	879.0	881.0	923.7	938.8
32.5°	1475.0	1487.7	1424.3	1322.3	1193.1	1049.8	955.5	939.9	974.4	986.9
35°	1663.1	1677.5	1624.8	1512.1	1363.4	1171.0	1035.3	1007.6	1041.9	1055.5
37.5°	1825.7	1844.9	1817.7	1719.7	1545.5	1317.2	1139.6	1087.2	1124.9	1141.9
40°	1954.0	1983.5	1981.5	1920.3	1760.2	1494.5	1271.9	1185.5	1228.0	1246.4
42.5°	2058.2	2083.7	2105.8	2102.7	1984.3	1695.9	1427.4	1313.2	1345.5	1366.8
45°	2130.2	2157.4	2205.0	2256.2	2199.9	1911.5	1605.6	1464.8	1494.2	1526.3
47.5°	2194.5	2225.4	2287.1	2368.4	2382.9	2127.9	1800.7	1641.3	1668.2	1701.3
50°	2200.2	2226.8	2322.5	2437.8	2512.9	2335.8	2010.4	1839.3	1864.5	1899.9
52.5°	2063.3	2105.3	2272.4	2435.8	2572.6	2509.8	2218.6	2045.2	2073.5	2116.0
55°	1601.6	1663.1	2125.4	2359.9	2551.4	2622.2	2416.6	2264.2	2300.4	2344.9
57.5°	1379.5	1406.4	1687.2	2221.7	2454.5	2651.4	2583.7	2485.4	2543.8	2592.5
60°	1239.9	1262.2	1428.2	2006.7	2327.1	2605.2	2712.9	2691.6	2792.5	2850.5
62.5°	1090.3	1111.5	1262.5	1675.5	2163.9	2528.5	2794.4	2882.0	3047.4	3110.9
65°	941.9	960.0	1104.7	1407.8	1956.5	2451.7	2836.7	3046.6	3283.4	3349.1
67.5°	776.4	791.5	928.3	1187.7	1704.4	2346.6	2857.6	3176.0	3488.7	3545.1
70°	560.3	571.9	713.3	939.3	1388.0	2165.9	2849.1	3267.8	3595.3	3640.3
72.5°	264.9	275.3	441.3	609.9	980.4	1814.1	2677.2	3195.0	3487.0	3464.7
75°	141.4	150.4	253.5	334.5	517.8	1243.6	2190.8	2752.2	2928.2	2819.4
77.5°	95.7	102.8	156.9	200.8	236.5	590.3	1408.1	1905.6	1833.3	1653.7
80°	75.9	83.3	128.6	136.0	114.4	213.3	581.8	882.1	633.7	506.8
82.5°	58.4	66.6	108.2	98.6	62.3	87.5	169.4	279.0	162.3	123.5
85°	35.7	44.5	85.0	62.9	35.1	39.9	57.5	77.6	49.6	41.4
87.5°	18.1	25.5	43.1	22.9	15.9	9.3	15.3	15.3	13.0	11.3
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°
771.6	0°	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6	771.6
767.7	2.5°	774.5	780.1	789.8	798.8	805.9	812.7	819.5	823.2	824.3	828.8
771.9	5°	783.5	794.0	812.7	830.3	841.3	848.1	852.9	855.8	856.3	857.7
783.5	7.5°	800.2	816.9	843.0	860.6	868.8	868.2	866.2	859.2	856.3	853.8
800.5	10°	823.7	845.8	877.9	890.0	884.9	871.3	853.8	833.1	823.5	814.1
823.7	12.5°	852.9	881.0	912.4	911.8	886.6	851.8	811.0	779.3	759.2	744.7
852.4	15°	888.3	920.6	944.7	925.4	870.2	807.6	747.8	706.5	688.3	672.5
881.3	17.5°	924.9	959.4	970.5	921.2	828.8	742.2	674.5	641.9	624.0	615.5
912.4	20°	960.6	994.8	985.8	896.8	766.0	667.9	607.6	589.8	586.1	588.1
942.7	22.5°	998.2	1028.8	988.9	849.8	685.8	592.0	558.9	559.5	567.7	573.6
974.4	25°	1036.8	1057.4	980.7	781.8	599.7	536.2	528.0	537.1	553.2	564.8
1010.1	27.5°	1073.9	1082.9	962.8	697.7	525.7	496.3	497.7	516.4	540.8	556.9
1053.5	30°	1115.8	1105.6	928.6	603.1	474.5	462.0	473.9	495.7	520.1	534.5
1108.1	32.5°	1163.1	1125.1	874.2	515.5	438.2	434.5	454.1	468.2	479.0	483.3
1180.7	35°	1222.0	1152.6	804.5	454.1	405.6	414.4	433.1	426.0	421.8	419.5
1278.1	37.5°	1298.5	1189.7	722.9	414.1	379.3	400.0	407.6	385.5	368.8	360.6
1396.2	40°	1390.6	1244.1	644.4	383.3	362.6	387.5	374.2	347.6	326.3	314.7
1529.1	42.5°	1492.8	1301.1	578.4	360.0	353.2	377.3	349.6	317.8	283.6	279.9
1687.4	45°	1600.2	1359.7	533.4	342.2	348.7	368.5	335.4	284.1	259.8	274.8
1846.3	47.5°	1707.5	1413.5	506.2	328.9	346.4	358.6	322.9	265.4	248.1	270.0
2016.6	50°	1827.1	1461.7	494.0	319.2	343.9	354.7	304.2	260.6	236.0	250.4
2192.8	52.5°	1945.8	1499.1	485.0	309.6	340.2	351.5	295.2	254.9	221.2	222.1
2370.1	55°	2064.2	1523.4	475.0	296.9	332.0	344.7	294.3	248.7	210.2	206.2
2557.6	57.5°	2190.5	1537.3	462.9	282.7	317.8	327.5	293.5	243.9	206.8	200.3
2749.4	60°	2319.1	1557.7	447.0	265.4	298.8	306.8	291.5	242.2	204.8	193.8
2930.1	62.5°	2434.4	1564.8	428.0	249.0	274.5	286.4	287.2	240.8	199.4	180.4
3080.3	65°	2510.0	1534.2	394.9	230.3	248.1	265.4	279.0	236.0	189.8	170.8
3154.5	67.5°	2506.9	1446.9	343.0	206.2	222.6	242.2	267.1	227.7	178.2	158.9
3098.4	70°	2390.2	1274.7	277.3	178.2	194.6	217.3	251.8	215.6	164.3	145.9
2755.1	72.5°	2050.0	997.7	201.4	145.3	162.0	191.5	232.0	200.8	150.1	134.3
2036.1	75°	1464.5	631.4	136.5	111.6	126.1	162.3	207.4	183.6	137.1	134.8
1019.8	77.5°	748.1	301.7	90.4	81.6	87.8	128.0	174.2	164.0	139.1	111.3
290.1	80°	243.3	111.3	56.9	55.5	58.4	85.3	134.8	134.6	105.4	75.6
70.3	82.5°	77.6	47.9	37.1	35.7	34.3	53.5	94.0	106.5	71.1	47.9
25.2	85°	30.9	28.6	21.8	20.1	14.4	25.2	49.3	70.8	53.0	34.6
6.5	87.5°	11.3	11.3	5.9	4.2	3.1	8.5	13.3	21.2	30.3	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>
771.6
831.4
860.0
854.3
811.3
741.3
670.8
618.1
587.2
575.0
568.0
560.9
537.9
485.5
421.8
362.6
315.6
283.6
282.7
280.2
261.2
228.0
209.1
201.1
194.6
180.4
170.8
159.8
147.6
133.4
127.2
99.1
66.9
47.6
35.4
17.6
0.0

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