

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: P939164

Luminaire Tested: **GALN-SB1C-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5233 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

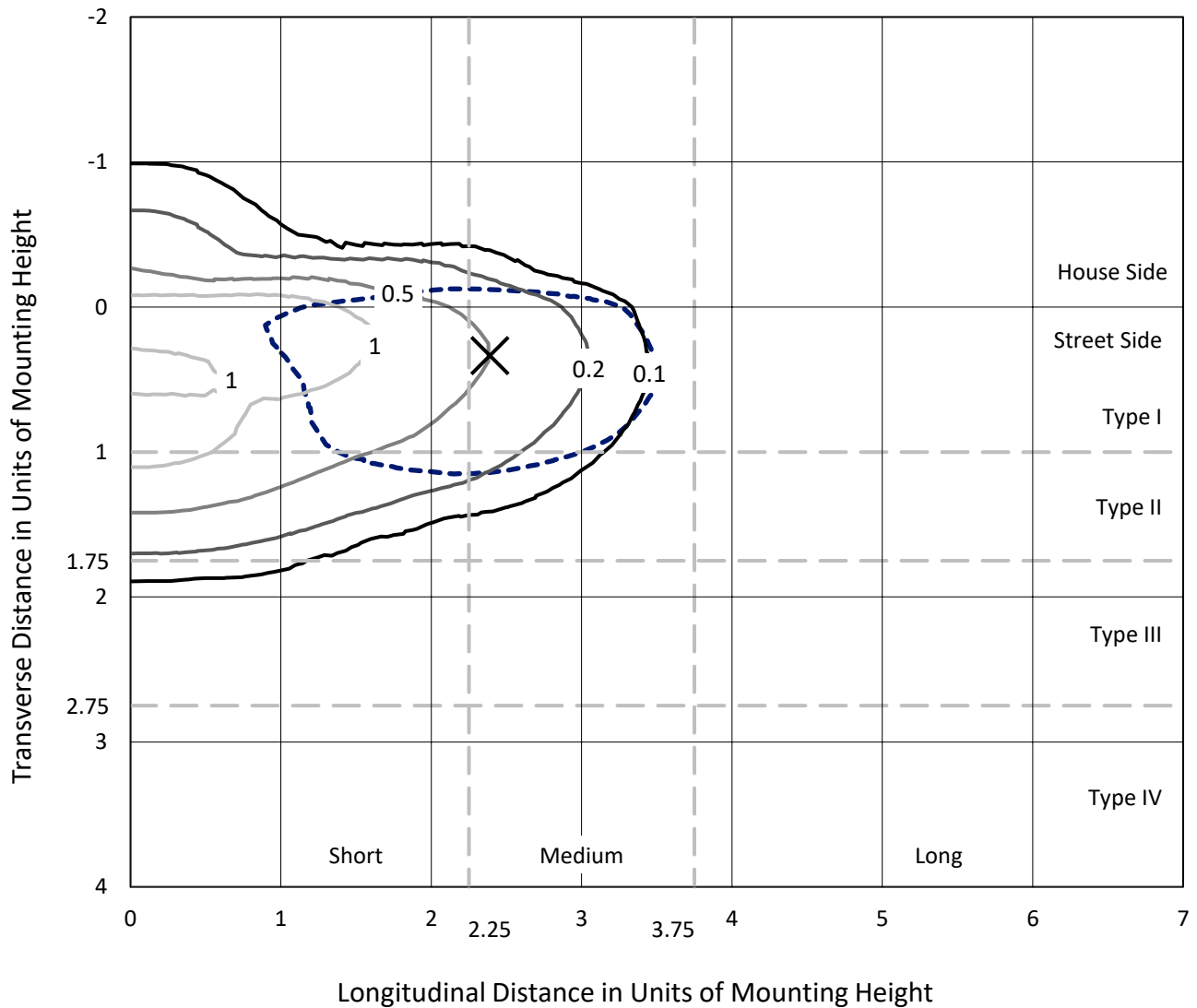
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

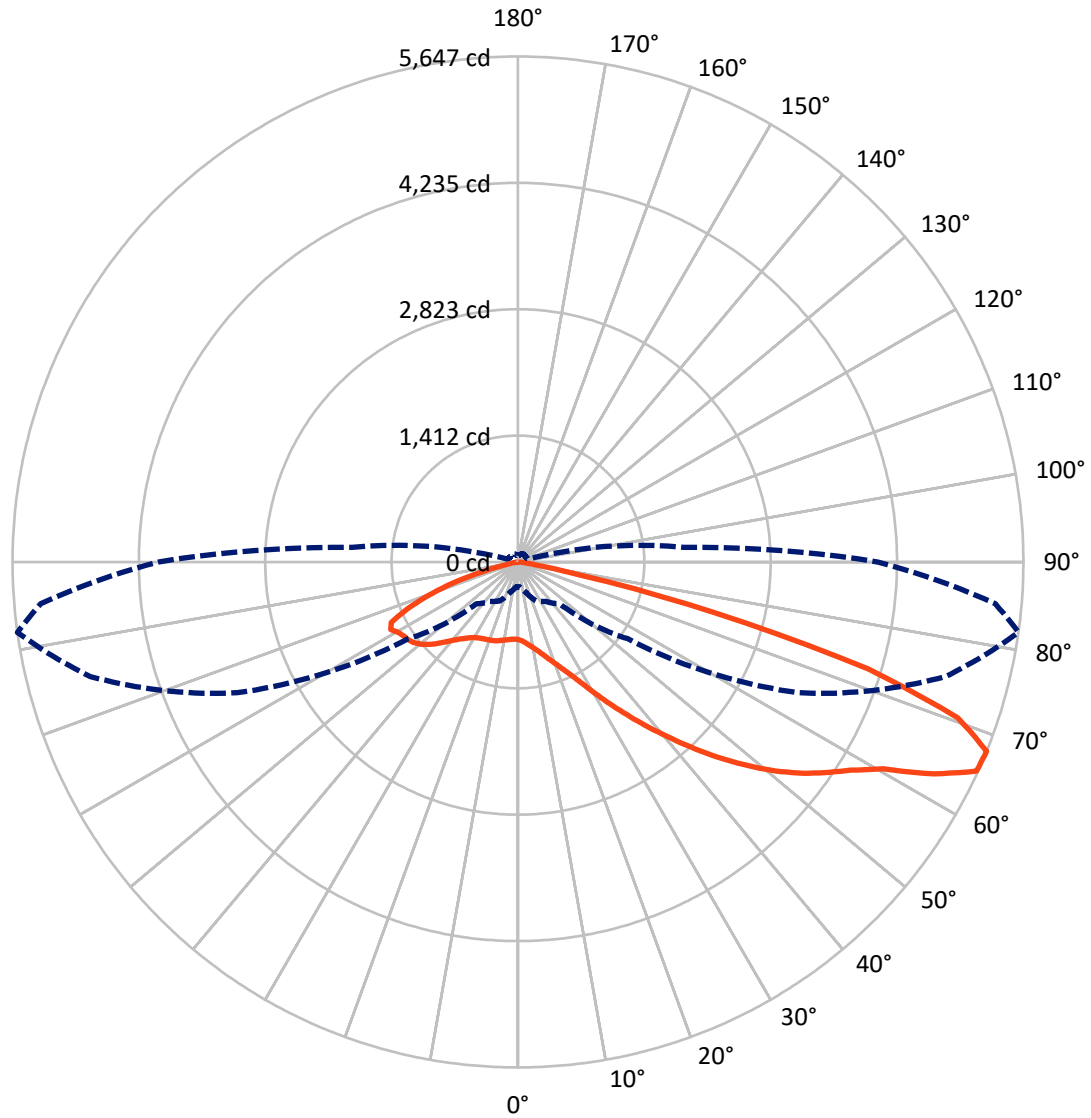
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.9	0.0	947.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4285.1	0.0	4285.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	5233.0	0.0	5233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.5
10°-20°	200.7	3.8
20°-30°	321.5	6.1
30°-40°	568.5	10.9
40°-50°	996.0	19.0
50°-60°	1328.4	25.4
60°-70°	1236.6	23.6
70°-80°	474.6	9.1
80°-90°	29.5	0.6
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°	5233.0	100.0
0°-180°	5233.0	100.0

Coefficient of Utilization



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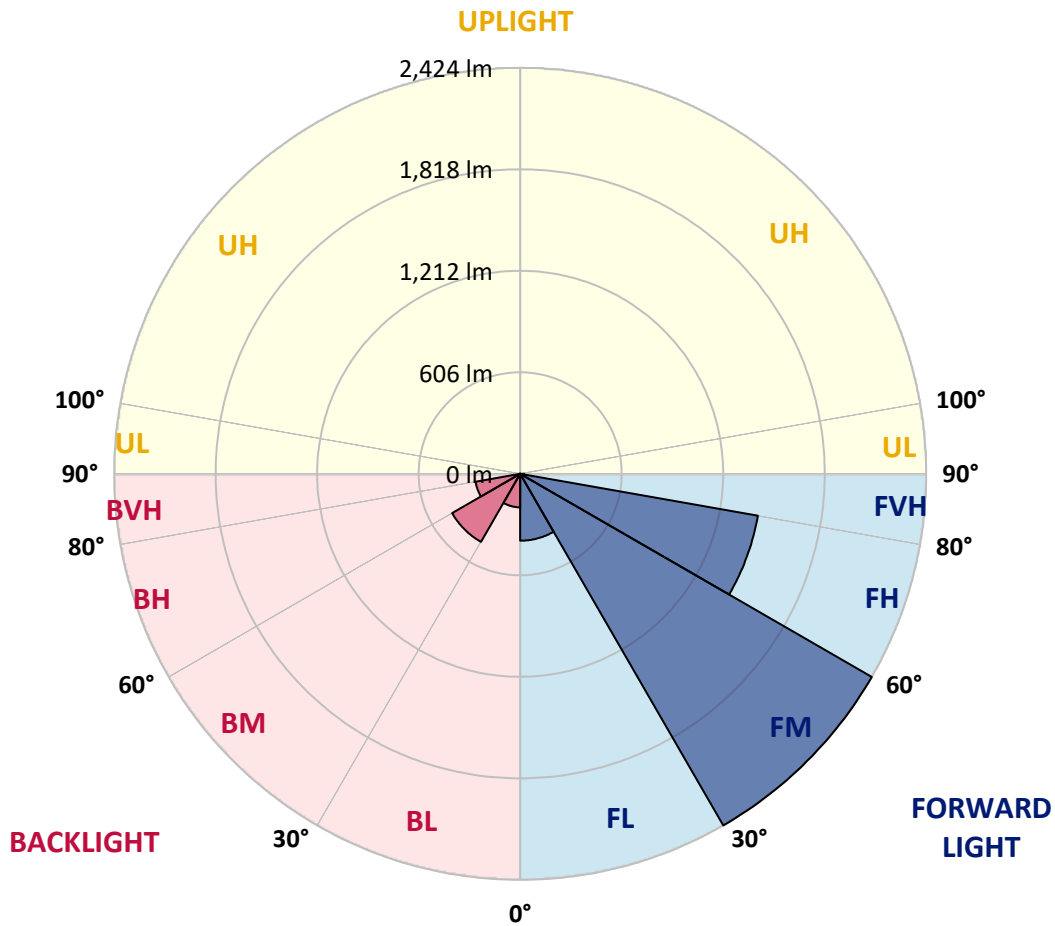
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.2	7.6			
FM (30°-60°)	2423.7	46.3			
FH (60°-80°)	1440.7	27.5			G1/1800
FVH (80°-90°)	21.4	0.4			G1/100
BL (0°-30°)	200.2	3.8	B1/500		
BM (30°-60°)	469.1	9.0	B1/1000		
BH (60°-80°)	270.6	5.2	B1/500		G1/500
BVH (80°-90°)	8.0	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9
2.5°	916.3	921.6	918.5	917.0	914.4	910.6	907.6	898.2	888.4	882.0
5°	934.7	940.0	939.6	941.2	943.0	944.2	943.4	932.9	918.9	908.0
7.5°	918.9	925.0	929.9	937.4	950.6	964.5	971.3	969.0	954.7	939.6
10°	874.1	880.5	892.2	909.9	937.8	967.9	993.1	1004.8	995.8	979.2
12.5°	792.0	798.4	821.3	859.8	906.5	958.9	1007.1	1038.4	1040.6	1024.0
15°	699.6	706.1	730.5	778.8	850.0	934.0	1014.6	1073.8	1093.7	1079.4
17.5°	642.4	648.0	666.5	705.3	779.5	884.3	1012.0	1111.5	1157.0	1145.7
20°	625.0	629.9	638.6	665.7	727.5	832.6	994.7	1146.9	1225.2	1218.8
22.5°	643.5	648.0	650.7	662.7	701.5	798.7	972.8	1183.0	1304.4	1305.1
25°	686.1	690.6	687.6	695.1	712.1	788.2	964.5	1225.6	1403.8	1412.1
27.5°	756.2	756.5	749.4	749.0	751.6	804.0	973.2	1271.2	1529.3	1544.7
30°	896.7	891.0	863.5	833.8	820.2	851.5	997.3	1325.1	1677.3	1704.9
32.5°	1113.3	1105.0	1054.6	983.4	911.8	928.0	1040.6	1386.5	1838.6	1888.3
35°	1348.4	1346.2	1293.4	1187.6	1062.5	1036.9	1111.1	1467.1	2014.6	2093.7
37.5°	1567.0	1565.8	1535.7	1411.0	1258.8	1188.7	1224.1	1572.6	2202.9	2317.5
40°	1766.6	1770.0	1739.9	1628.4	1475.0	1383.5	1377.8	1703.0	2412.4	2561.2
42.5°	1939.2	1943.0	1912.4	1829.9	1688.7	1599.0	1566.6	1862.7	2617.0	2823.1
45°	2056.4	2079.7	2075.2	2009.3	1907.9	1814.9	1793.4	2063.2	2850.2	3100.8
47.5°	2089.5	2111.0	2144.9	2154.0	2092.2	2000.6	2026.2	2304.7	3086.1	3378.8
50°	2007.8	2027.7	2098.2	2192.0	2235.0	2206.7	2252.7	2563.5	3327.6	3656.1
52.5°	1846.5	1866.9	1955.8	2104.2	2279.4	2368.3	2479.9	2818.6	3561.5	3918.7
55°	1613.3	1634.8	1748.9	1917.0	2194.6	2435.0	2669.4	3073.3	3775.9	4154.9
57.5°	1296.1	1311.9	1430.6	1665.7	1981.4	2368.7	2809.1	3351.3	3977.9	4387.0
60°	844.7	858.6	996.5	1258.8	1628.0	2147.2	2837.0	3661.4	4246.1	4688.8
62.5°	561.8	571.2	652.9	845.5	1146.5	1721.8	2673.9	3908.9	4639.5	5214.0
65°	385.4	394.8	476.6	610.7	740.7	1139.0	2204.8	3876.1	4995.9	5631.1
67.5°	275.0	282.9	352.3	478.9	536.1	661.6	1494.6	3457.2	4944.6	5646.9
70°	197.0	201.6	258.8	373.0	426.1	397.5	831.1	2644.1	4329.4	5214.4
72.5°	137.9	139.4	179.7	284.1	343.2	290.1	395.6	1762.9	3274.4	4092.8
75°	93.4	95.3	120.9	208.3	275.4	221.5	209.5	945.3	1922.2	2265.5
77.5°	57.3	58.0	78.0	142.4	206.1	168.8	134.9	400.5	743.7	730.2
80°	32.4	32.4	49.7	88.5	140.5	108.9	94.6	170.3	235.5	206.8
82.5°	18.1	18.5	36.2	55.0	93.1	64.4	52.0	78.7	101.7	90.0
85°	7.5	8.3	22.2	26.0	44.5	32.0	21.1	33.2	37.7	33.5
87.5°	0.8	1.1	6.8	4.9	5.3	6.4	3.0	6.4	5.3	5.3
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°
866.9	0°	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9	866.9
879.7	2.5°	872.6	866.9	852.6	836.0	814.2	803.6	789.3	779.5	771.2	772.0
901.6	5°	889.5	875.2	843.2	803.3	753.5	718.1	680.4	654.4	633.3	628.8
931.7	7.5°	912.9	890.3	834.2	762.2	678.2	614.5	557.6	521.1	495.1	486.8
968.3	10°	943.0	910.3	822.5	710.6	589.6	508.6	447.6	419.0	401.3	395.2
1011.2	12.5°	978.1	933.2	807.0	647.7	498.5	420.5	381.7	367.3	361.7	359.8
1064.0	15°	1022.2	961.9	783.7	573.1	421.2	366.6	350.0	348.1	348.9	348.1
1127.3	17.5°	1074.5	993.1	745.6	496.2	369.2	339.1	333.1	334.6	336.4	336.1
1198.1	20°	1131.8	1024.0	697.0	428.0	333.8	319.5	316.1	317.6	319.1	318.4
1279.9	22.5°	1197.0	1057.2	643.1	374.9	310.1	301.4	297.6	298.0	298.0	296.5
1383.5	25°	1275.0	1093.7	586.6	337.2	292.0	285.2	280.7	279.2	276.9	272.4
1509.3	27.5°	1368.0	1132.5	532.4	310.8	277.7	271.3	266.0	262.2	256.6	249.0
1660.4	30°	1472.8	1179.6	486.4	294.3	266.4	260.0	253.9	248.3	240.0	230.6
1834.1	32.5°	1596.0	1230.1	452.9	283.3	256.2	249.4	242.3	235.5	226.4	217.0
2029.2	35°	1742.9	1291.2	433.3	275.8	248.3	239.2	231.3	223.8	217.0	208.7
2241.4	37.5°	1902.3	1356.0	427.2	272.0	243.0	229.1	220.0	214.8	214.0	209.1
2470.8	40°	2076.7	1432.8	431.8	269.8	237.4	219.3	209.5	208.3	210.2	201.6
2716.1	42.5°	2261.3	1524.0	439.3	267.1	229.4	209.5	200.1	200.1	198.6	186.5
2975.3	45°	2461.0	1629.1	446.8	260.7	220.0	199.7	192.5	189.9	183.5	171.8
3236.0	47.5°	2662.2	1736.1	452.5	249.0	208.7	191.4	185.0	179.0	169.5	159.0
3491.8	50°	2853.2	1832.2	446.5	231.7	195.9	183.5	176.7	168.4	158.2	151.1
3734.1	52.5°	3023.9	1915.5	420.8	211.4	182.4	175.2	169.2	160.5	152.2	144.7
3952.6	55°	3172.3	1982.9	375.6	192.1	170.3	168.0	162.0	151.1	139.8	133.4
4169.3	57.5°	3314.8	2034.1	319.1	176.3	159.4	160.1	151.1	141.3	130.7	124.0
4461.2	60°	3504.3	2102.7	261.9	161.6	147.7	150.0	140.2	133.0	119.8	111.1
4962.0	62.5°	3807.2	2209.3	208.0	143.5	134.1	134.9	130.7	122.1	106.2	96.1
5333.1	65°	4047.6	2170.2	163.9	124.0	118.7	119.8	119.8	110.4	93.4	81.8
5353.0	67.5°	4020.4	1858.2	130.7	104.7	104.0	104.7	107.4	99.5	82.9	73.5
4945.4	70°	3703.6	1478.0	104.7	87.0	90.4	88.5	96.1	90.8	74.6	65.2
3833.9	72.5°	3022.0	1064.7	79.9	72.0	69.3	72.3	86.7	81.8	62.2	51.6
2030.8	75°	1765.9	568.2	59.5	56.9	50.1	60.3	76.9	69.7	47.5	38.1
622.4	77.5°	574.9	198.2	43.7	41.8	37.3	48.6	65.6	58.8	38.8	30.1
182.4	80°	154.1	59.9	29.8	27.5	24.1	36.2	52.0	46.7	27.9	19.6
78.4	82.5°	61.8	25.2	17.3	15.4	13.2	24.9	41.1	37.7	20.7	12.4
24.5	85°	20.0	8.3	6.4	4.9	6.0	15.4	24.5	25.6	14.7	6.4
3.8	87.5°	2.6	1.1	1.1	1.5	1.1	2.6	7.5	7.2	4.1	0.8
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>
866.9
764.5
618.6
478.5
390.7
358.7
347.8
335.3
318.0
295.8
271.6
248.3
229.8
217.4
208.0
208.7
201.9
186.5
171.4
158.6
150.0
143.9
132.6
123.2
110.0
95.3
80.6
72.0
64.0
50.5
36.9
29.0
19.2
12.4
4.9
0.0
0.0

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