

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: P945877

Luminaire Tested: **GALN-SB1C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945877
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-SB1C-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5573 lumens
Efficiency: N/A
Efficacy: 102.4 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

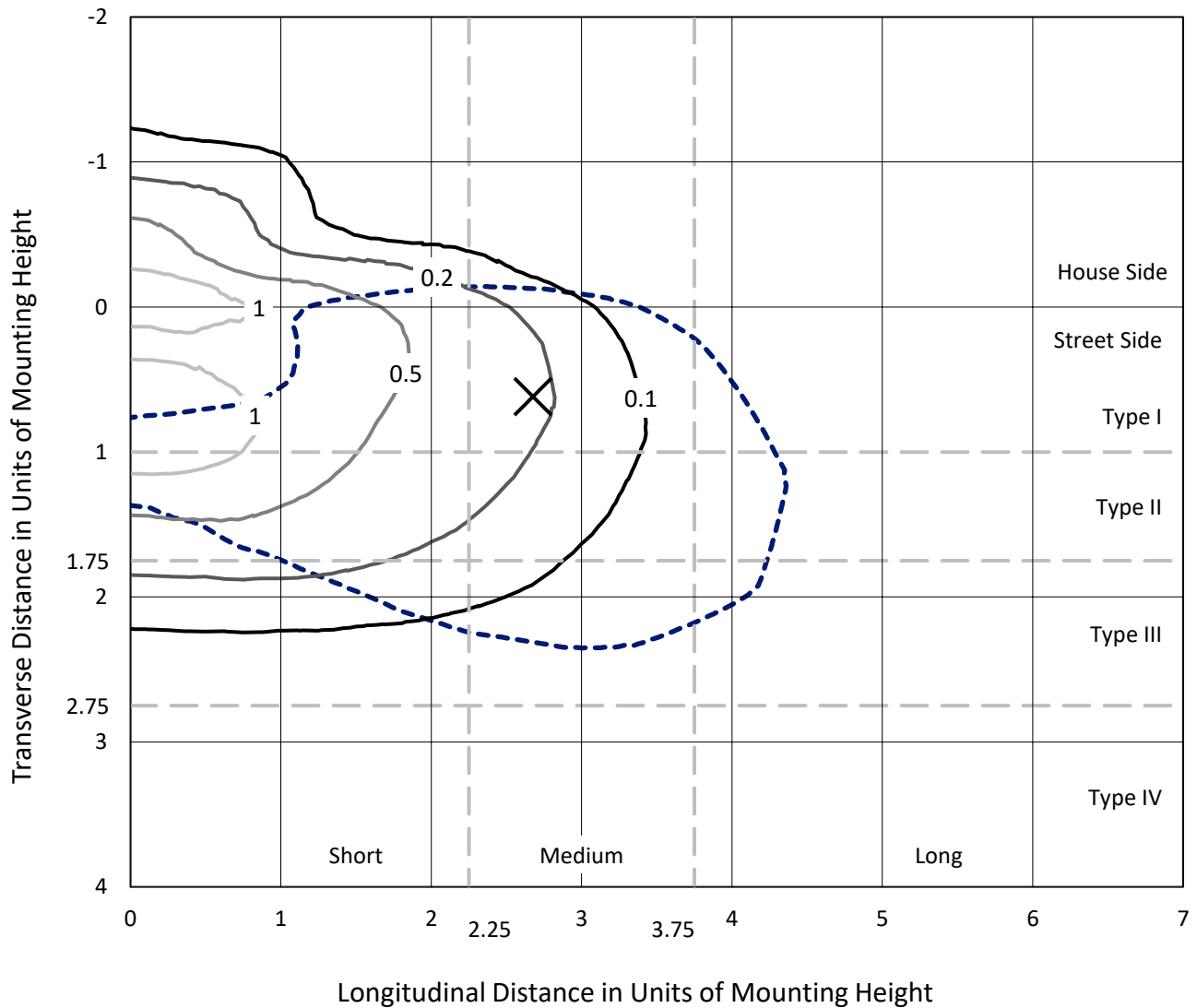
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945877
 CATALOG NUMBER: GALN-SB1C-940-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

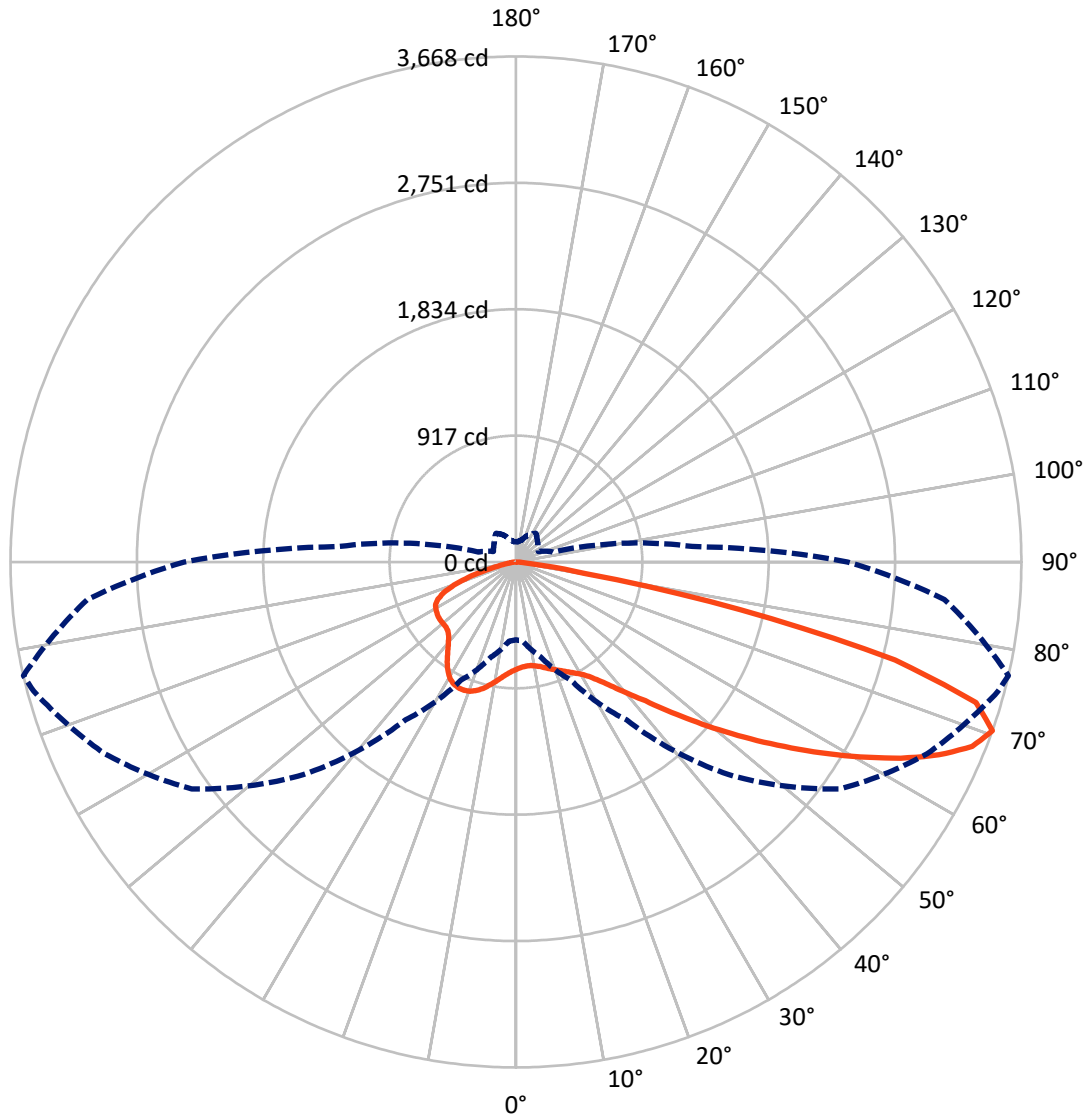
✕ Max cd
 - - - 1/2 Max cd



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	1220.4	0.0	1220.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4352.6	0.0	4352.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	5573.0	0.0	5573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.3
10°-20°	214.0	3.8
20°-30°	366.0	6.6
30°-40°	588.5	10.6
40°-50°	918.9	16.5
50°-60°	1227.4	22.0
60°-70°	1308.2	23.5
70°-80°	805.3	14.5
80°-90°	70.6	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°	5573.0	100.0
0°-180°	5573.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945877

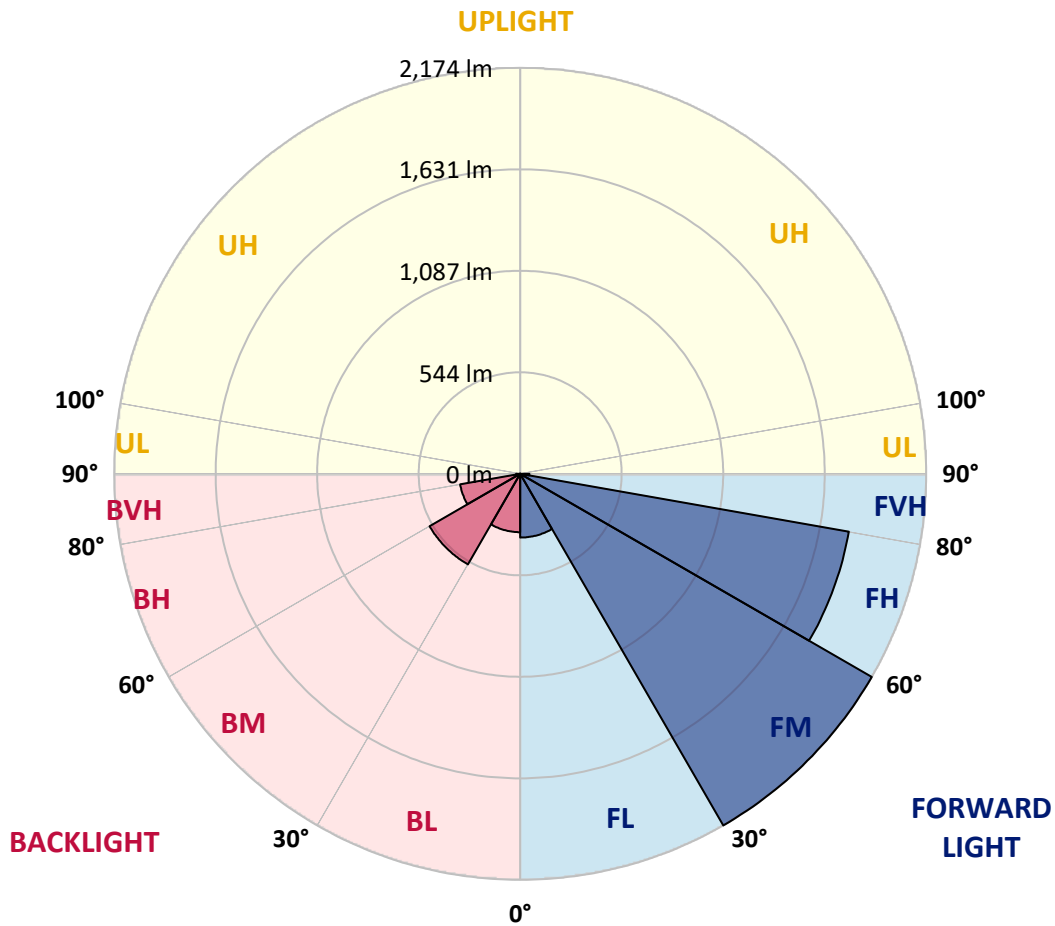
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.4	6.1			
FM (30°-60°)	2174.5	39.0			
FH (60°-80°)	1787.4	32.1			G1/1800
FVH (80°-90°)	49.3	0.9			G1/100
BL (0°-30°)	312.7	5.6	B1/500		
BM (30°-60°)	560.3	10.1	B1/1000		
BH (60°-80°)	326.2	5.9	B1/500		G1/500
BVH (80°-90°)	21.2	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°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
2.5°	716.7	716.4	720.1	721.3	728.1	733.0	742.1	751.8	764.4	765.8
5°	675.3	675.3	679.6	684.2	693.0	702.7	716.7	733.5	755.2	758.6
7.5°	640.2	642.5	646.2	655.0	665.3	679.3	700.7	724.7	753.2	758.6
10°	611.9	614.5	619.1	626.2	641.6	661.0	689.0	719.8	758.1	766.6
12.5°	603.1	605.7	608.2	613.7	627.9	650.8	684.2	722.1	769.8	778.3
15°	623.6	626.8	624.8	623.4	630.8	651.6	686.4	730.4	784.3	796.6
17.5°	671.0	672.2	667.6	654.2	653.0	664.2	697.3	741.8	802.6	816.0
20°	747.5	745.5	736.1	709.6	694.4	692.1	715.8	758.9	821.4	835.7
22.5°	851.4	849.1	830.3	788.3	754.7	732.4	742.7	781.2	842.6	858.5
25°	981.0	977.8	950.2	893.1	840.8	785.8	779.2	810.6	868.5	883.4
27.5°	1132.3	1129.7	1099.7	1024.4	949.0	858.8	824.6	845.1	895.6	912.5
30°	1295.0	1302.4	1249.3	1168.2	1072.9	954.2	885.7	887.7	930.8	945.9
32.5°	1486.2	1499.0	1435.1	1332.3	1202.2	1057.8	962.7	947.0	981.8	994.4
35°	1675.7	1690.3	1637.2	1523.6	1373.7	1179.9	1043.2	1015.2	1049.8	1063.5
37.5°	1839.5	1858.9	1831.5	1732.8	1557.3	1327.2	1148.2	1095.4	1133.4	1150.5
40°	1968.8	1998.5	1996.5	1934.9	1773.6	1505.9	1281.5	1194.5	1237.3	1255.8
42.5°	2073.9	2099.6	2121.8	2118.7	1999.4	1708.8	1438.2	1323.2	1355.7	1377.2
45°	2146.4	2173.8	2221.7	2273.4	2216.6	1926.0	1617.8	1475.9	1505.6	1537.8
47.5°	2211.1	2242.3	2304.5	2386.4	2401.0	2144.1	1814.4	1653.7	1680.8	1714.2
50°	2216.9	2243.7	2340.2	2456.3	2532.0	2353.6	2025.6	1853.2	1878.6	1914.3
52.5°	2079.0	2121.2	2289.6	2454.3	2592.2	2528.8	2235.4	2060.7	2089.3	2132.1
55°	1613.8	1675.7	2141.5	2377.8	2570.8	2642.1	2434.9	2281.4	2317.9	2362.7
57.5°	1390.0	1417.1	1700.0	2238.5	2473.2	2671.5	2603.3	2504.3	2563.1	2612.2
60°	1249.3	1271.8	1439.1	2021.9	2344.7	2625.0	2733.5	2712.1	2813.7	2872.2
62.5°	1098.6	1120.0	1272.1	1688.3	2180.3	2547.7	2815.7	2903.9	3070.5	3134.5
65°	949.0	967.3	1113.1	1418.5	1971.4	2470.3	2858.2	3069.7	3308.3	3374.5
67.5°	782.3	797.5	935.3	1196.8	1717.4	2364.4	2879.3	3200.1	3515.2	3572.0
70°	564.6	576.3	718.7	946.5	1398.6	2182.3	2870.8	3292.6	3622.6	3667.9
72.5°	266.9	277.4	444.7	614.5	987.8	1827.8	2697.5	3219.3	3513.5	3491.0
75°	142.4	151.6	255.5	337.1	521.7	1253.0	2207.4	2773.1	2950.4	2840.8
77.5°	96.5	103.6	158.1	202.4	238.3	594.8	1418.8	1920.0	1847.2	1666.3
80°	76.5	83.9	129.6	137.0	115.3	214.9	586.3	888.8	638.5	510.6
82.5°	58.8	67.1	109.0	99.3	62.8	88.2	170.7	281.1	163.5	124.4
85°	36.0	44.8	85.6	63.4	35.4	40.2	57.9	78.2	49.9	41.7
87.5°	18.3	25.7	43.4	23.1	16.0	9.4	15.4	15.4	13.1	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945877
 CATALOG NUMBER: GALN-SB1C-940-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
777.5	0°	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5	777.5
773.5	2.5°	780.3	786.0	795.8	804.9	812.0	818.9	825.7	829.4	830.6	835.1
777.8	5°	789.5	800.0	818.9	836.6	847.7	854.5	859.4	862.3	862.8	864.3
789.5	7.5°	806.3	823.2	849.4	867.1	875.4	874.8	872.8	865.7	862.8	860.3
806.6	10°	830.0	852.3	884.5	896.8	891.7	878.0	860.3	839.4	829.7	820.3
830.0	12.5°	859.4	887.7	919.3	918.8	893.4	858.3	817.2	785.2	764.9	750.4
858.8	15°	895.1	927.6	951.9	932.5	876.8	813.7	753.5	711.8	693.6	677.6
887.9	17.5°	931.9	966.7	977.8	928.2	835.1	747.8	679.6	646.8	628.8	620.2
919.3	20°	967.9	1002.4	993.3	903.6	771.8	673.0	612.2	594.2	590.5	592.5
949.9	22.5°	1005.8	1036.6	996.4	856.3	691.0	596.5	563.1	563.7	572.0	578.0
981.8	25°	1044.6	1065.5	988.1	787.8	604.2	540.3	532.0	541.2	557.4	569.1
1017.8	27.5°	1082.0	1091.2	970.1	703.0	529.7	500.1	501.5	520.3	544.9	561.1
1061.5	30°	1124.3	1114.0	935.6	607.7	478.1	465.5	477.5	499.5	524.0	538.6
1116.6	32.5°	1171.9	1133.7	880.8	519.5	441.5	437.8	457.5	471.8	482.6	486.9
1189.6	35°	1231.3	1161.4	810.6	457.5	408.7	417.6	436.4	429.3	425.0	422.7
1287.8	37.5°	1308.4	1198.8	728.4	417.3	382.2	403.0	410.7	388.5	371.6	363.3
1406.8	40°	1401.1	1253.6	649.3	386.2	365.3	390.5	377.0	350.2	328.8	317.1
1540.7	42.5°	1504.2	1310.9	582.8	362.8	355.9	380.2	352.2	320.2	285.7	282.0
1700.2	45°	1612.3	1370.0	537.4	344.8	351.4	371.3	337.9	286.3	261.7	276.9
1860.4	47.5°	1720.5	1424.2	510.0	331.4	349.1	361.3	325.4	267.4	250.0	272.0
2031.9	50°	1841.0	1472.8	497.8	321.7	346.5	357.3	306.5	262.6	237.8	252.3
2209.4	52.5°	1960.6	1510.4	488.6	312.0	342.8	354.2	297.4	256.9	222.9	223.8
2388.1	55°	2079.9	1535.0	478.6	299.1	334.5	347.4	296.6	250.6	211.8	207.8
2577.1	57.5°	2207.2	1549.0	466.4	284.8	320.2	329.9	295.7	245.7	208.4	201.8
2770.3	60°	2336.7	1569.5	450.4	267.4	301.1	309.1	293.7	244.0	206.4	195.2
2952.4	62.5°	2452.9	1576.7	431.3	250.9	276.6	288.6	289.4	242.6	200.9	181.8
3103.7	65°	2529.1	1545.8	397.9	232.0	250.0	267.4	281.1	237.8	191.2	172.1
3178.4	67.5°	2526.0	1457.9	345.6	207.8	224.3	244.0	269.2	229.5	179.5	160.1
3121.9	70°	2408.4	1284.4	279.4	179.5	196.1	218.9	253.7	217.2	165.5	147.0
2776.0	72.5°	2065.6	1005.2	202.9	146.4	163.3	192.9	233.8	202.4	151.3	135.3
2051.6	75°	1475.6	636.2	137.6	112.5	127.0	163.5	208.9	185.0	138.1	135.9
1027.5	77.5°	753.8	304.0	91.0	82.2	88.5	129.0	175.5	165.3	140.1	112.2
292.3	80°	245.2	112.2	57.4	55.9	58.8	85.9	135.9	135.6	106.2	76.2
70.8	82.5°	78.2	48.2	37.4	36.0	34.5	53.9	94.8	107.3	71.6	48.2
25.4	85°	31.1	28.8	22.0	20.3	14.6	25.4	49.7	71.4	53.4	34.8
6.6	87.5°	11.4	11.4	6.0	4.3	3.1	8.6	13.4	21.4	30.5	18.0
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>
777.5
837.7
866.5
860.8
817.4
746.9
675.9
622.8
591.7
579.4
572.3
565.1
542.0
489.2
425.0
365.3
318.0
285.7
284.8
282.3
263.2
229.8
210.6
202.6
196.1
181.8
172.1
161.0
148.7
134.4
128.2
99.9
67.4
48.0
35.7
17.7
0.0

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