

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: P938755

Luminaire Tested: **GALN-SB1A-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1A-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704 lumens
Efficiency: N/A
Efficacy: 152.2 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

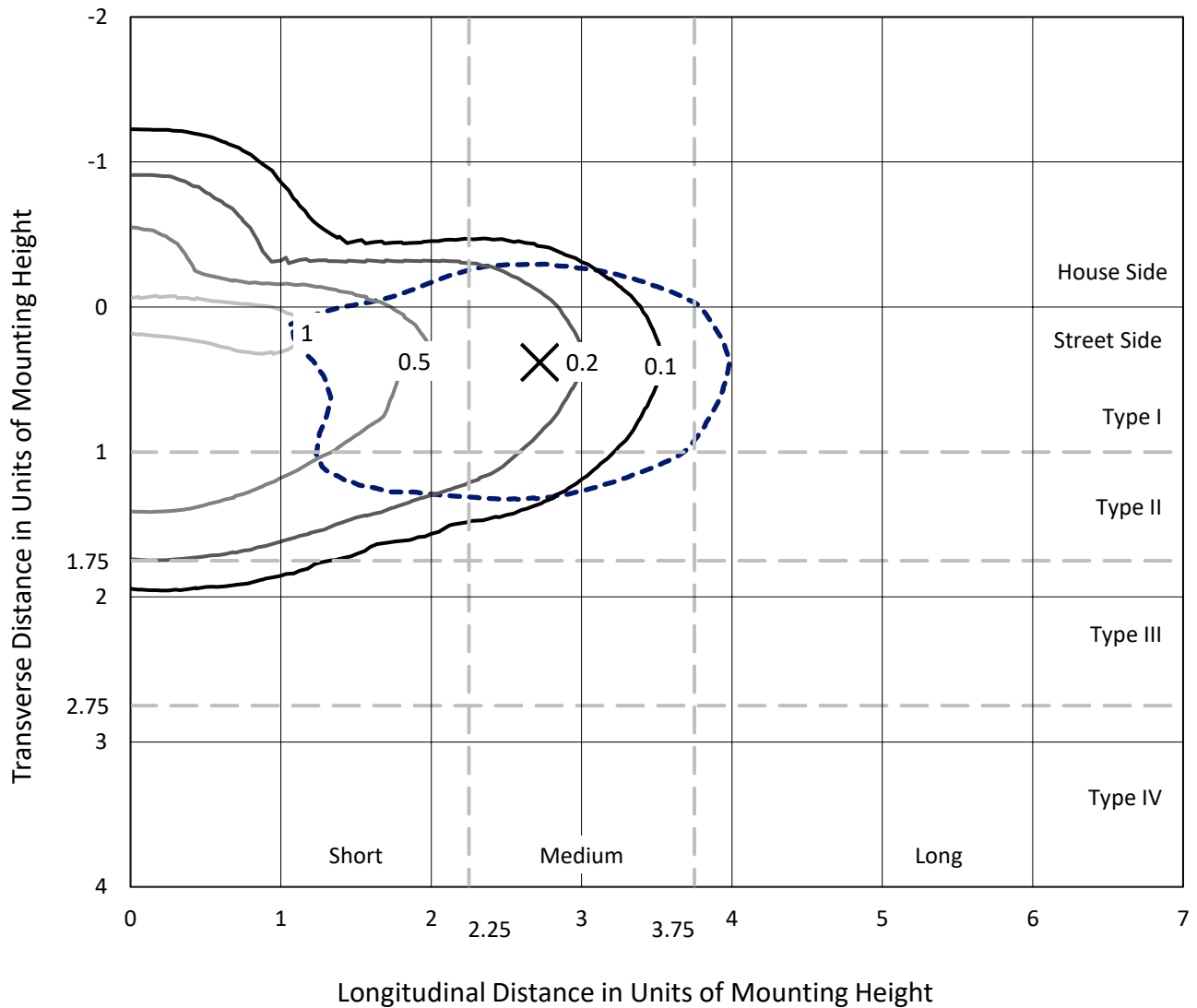
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

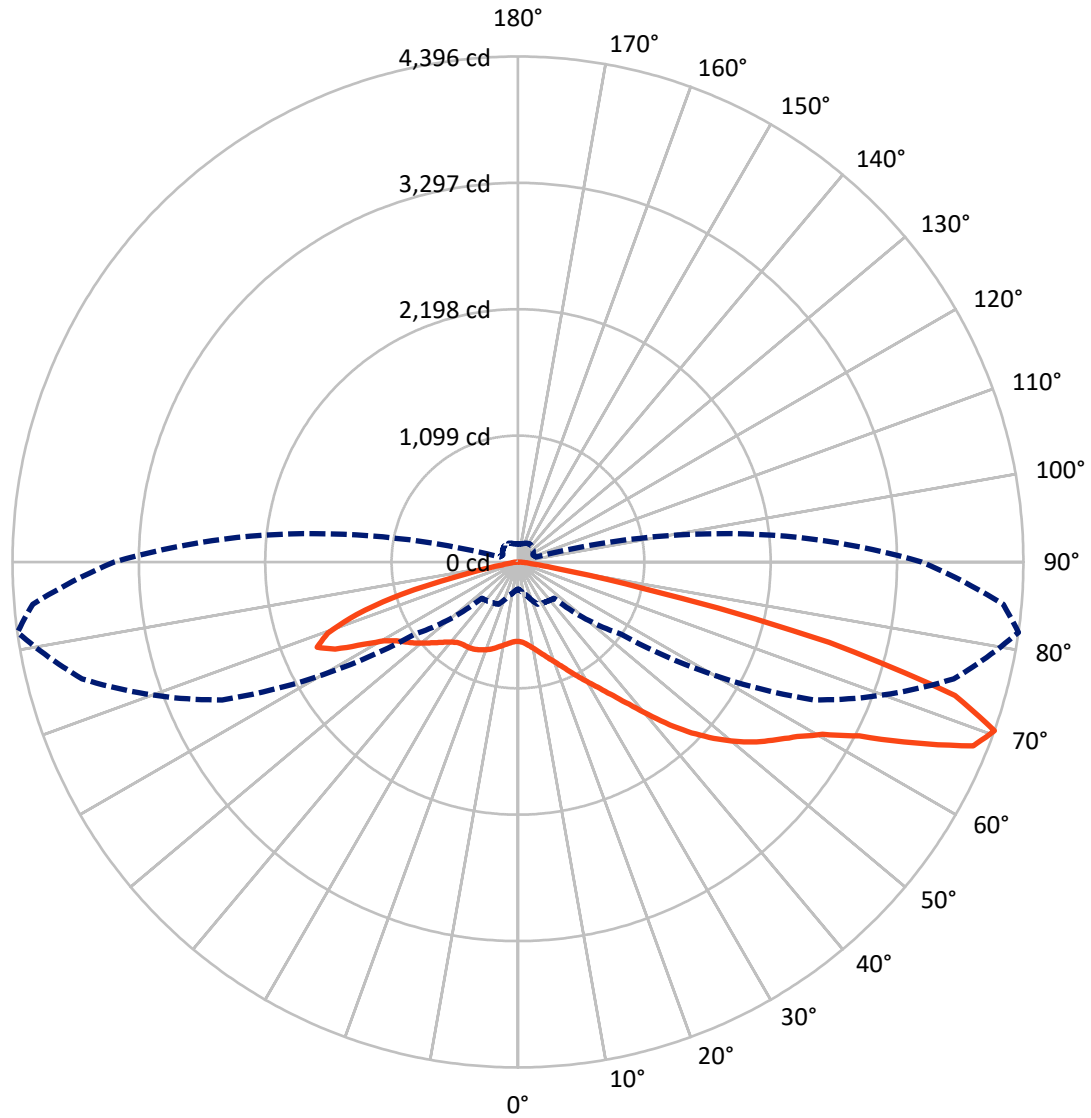
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.7	0.0	1159.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3544.3	0.0	3544.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	4704.0	0.0	4704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	1.4
10°-20°	187.1	4.0
20°-30°	313.0	6.7
30°-40°	488.9	10.4
40°-50°	778.7	16.6
50°-60°	1083.7	23.0
60°-70°	1133.5	24.1
70°-80°	592.4	12.6
80°-90°	61.5	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°	4704.0	100.0
0°-180°	4704.0	100.0

Coefficient of Utilization



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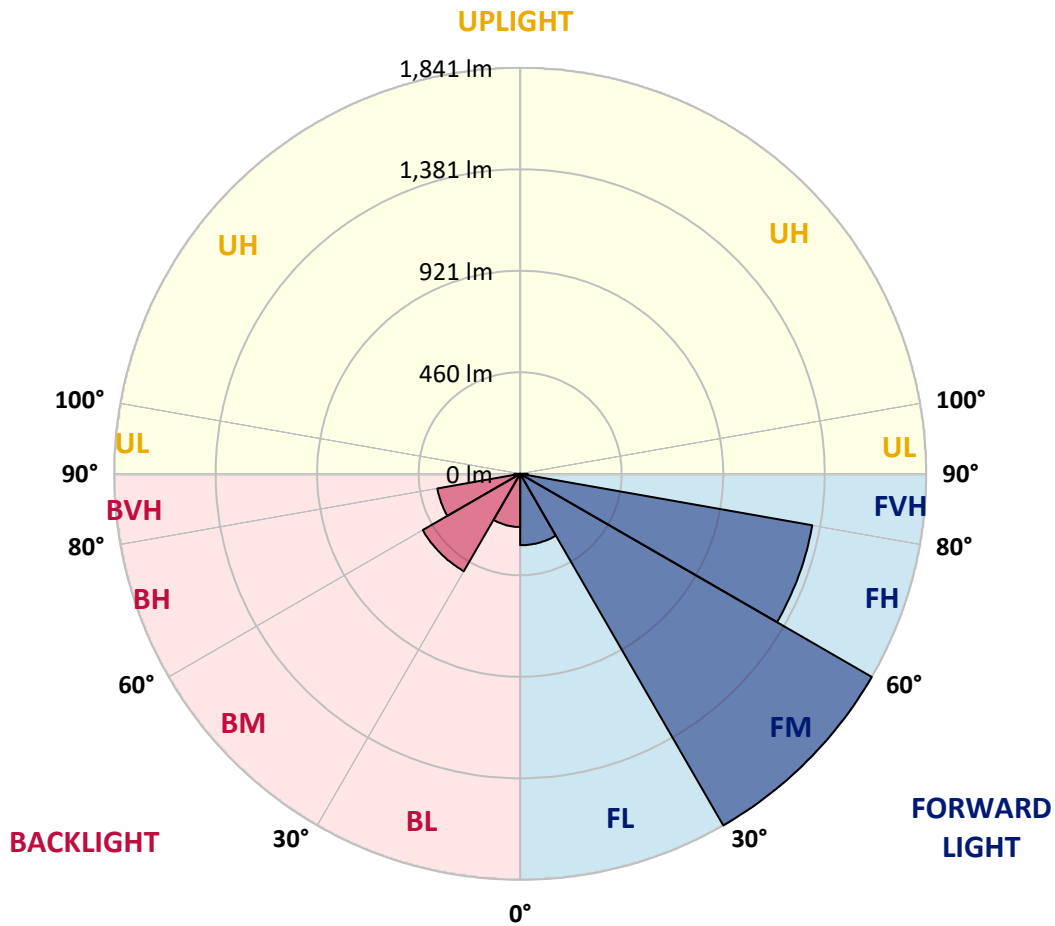
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.9	6.9			
FM (30°-60°)	1841.1	39.1			
FH (60°-80°)	1344.9	28.6			G1/1800
FVH (80°-90°)	34.4	0.7			G1/100
BL (0°-30°)	241.3	5.1	B1/500		
BM (30°-60°)	510.2	10.8	B1/1000		
BH (60°-80°)	381.1	8.1	B1/500		G1/500
BVH (80°-90°)	27.1	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	706.1	710.1	708.9	707.6	707.6	705.9	705.6	703.1	701.1	697.9
5°	715.1	719.4	718.9	719.9	723.1	723.9	724.6	723.1	719.1	715.1
7.5°	707.1	711.9	713.4	719.4	729.4	738.3	745.1	747.8	744.1	738.3
10°	680.2	685.4	690.7	704.9	722.6	743.8	761.8	772.5	771.8	766.3
12.5°	625.5	631.0	642.2	669.9	702.4	739.8	773.3	795.7	803.5	799.5
15°	581.8	586.6	595.1	623.5	665.7	722.6	777.5	821.2	840.9	838.7
17.5°	580.6	582.6	587.8	601.3	633.8	695.7	773.0	846.2	883.9	883.6
20°	602.6	603.3	606.3	609.0	627.5	675.2	761.6	866.9	932.0	932.0
22.5°	633.0	632.5	635.5	633.0	642.0	673.4	754.3	885.1	985.7	989.7
25°	678.7	676.2	675.4	669.7	671.4	689.7	762.3	905.8	1049.3	1057.6
27.5°	739.6	735.6	732.8	719.6	715.1	723.1	786.8	930.8	1120.2	1134.5
30°	819.0	811.7	807.7	784.8	768.5	769.8	823.7	964.0	1194.4	1217.3
32.5°	927.3	916.1	905.3	867.6	837.9	828.2	871.4	1009.9	1274.7	1311.4
35°	1048.6	1039.6	1028.1	970.0	924.3	901.8	935.8	1074.1	1368.8	1427.0
37.5°	1165.4	1157.7	1163.2	1084.8	1025.9	993.2	1020.1	1160.2	1484.9	1570.8
40°	1286.2	1280.2	1281.0	1206.1	1137.5	1100.8	1122.5	1268.3	1618.0	1741.8
42.5°	1417.5	1413.0	1398.1	1331.7	1254.5	1220.3	1240.3	1393.1	1760.7	1936.5
45°	1564.5	1561.8	1547.8	1471.7	1383.3	1344.9	1371.8	1530.8	1904.3	2119.7
47.5°	1691.6	1693.8	1692.1	1627.9	1536.3	1479.9	1512.1	1674.6	2037.8	2291.9
50°	1752.7	1764.5	1781.7	1761.7	1704.8	1647.4	1653.6	1813.4	2165.1	2453.4
52.5°	1720.8	1743.0	1789.9	1821.9	1843.8	1831.9	1815.1	1951.2	2284.9	2599.2
55°	1601.7	1632.9	1710.8	1787.9	1900.0	1987.1	2009.1	2103.9	2401.7	2727.5
57.5°	1384.8	1435.5	1505.4	1661.4	1850.1	2062.3	2235.2	2315.9	2525.5	2864.5
60°	1012.9	1080.8	1167.7	1399.8	1675.4	2022.1	2427.7	2641.3	2701.5	3042.0
62.5°	648.2	690.2	770.0	988.7	1305.4	1816.1	2486.6	3048.2	2999.8	3333.0
65°	443.8	470.8	543.9	666.7	843.9	1351.9	2328.8	3353.2	3473.5	3794.3
67.5°	322.5	343.0	405.4	512.9	549.9	800.0	1807.2	3339.2	3934.1	4269.5
70°	235.1	249.6	302.0	405.4	423.1	445.0	1094.8	2838.5	3924.1	4395.8
72.5°	174.2	184.2	219.4	314.5	342.5	300.5	541.9	2063.0	3371.9	3976.0
75°	126.1	133.5	159.5	240.6	274.1	228.9	270.3	1205.6	2352.1	2796.9
77.5°	96.3	102.1	119.1	176.2	219.4	171.7	167.7	554.6	1115.2	1120.7
80°	77.4	81.1	90.4	124.1	168.2	128.5	109.3	223.9	352.4	298.3
82.5°	56.9	63.2	76.4	87.1	120.3	88.6	66.6	113.1	134.0	115.3
85°	32.4	36.7	46.2	62.4	76.9	54.2	38.2	50.2	62.4	51.2
87.5°	11.5	15.0	16.2	24.5	33.4	22.5	14.7	14.5	20.5	15.2
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°
689.7	0°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
697.2	2.5°	694.7	693.4	688.4	681.7	674.7	667.9	665.7	661.0	657.7	656.0
713.4	5°	708.6	704.6	692.9	677.9	662.2	645.2	633.3	622.3	614.3	606.8
735.6	7.5°	728.6	721.6	701.4	675.2	647.2	619.0	598.1	582.1	571.4	564.4
761.6	10°	751.8	741.1	710.1	670.9	627.8	587.3	562.6	548.9	542.1	538.4
791.3	12.5°	778.5	763.3	719.1	661.2	598.1	551.9	534.9	530.9	531.2	531.4
828.7	15°	811.5	790.3	726.4	640.0	559.4	524.7	521.7	528.2	534.9	538.2
871.1	17.5°	848.7	818.7	727.6	605.0	521.4	507.2	516.7	530.7	540.9	545.4
918.6	20°	888.6	847.7	718.6	555.6	490.2	493.0	509.9	527.9	539.2	544.9
972.7	22.5°	934.3	878.6	697.2	503.7	464.8	477.5	497.5	514.9	526.7	532.4
1036.4	25°	986.4	913.3	663.5	460.0	442.8	460.0	480.0	494.5	504.0	509.2
1107.5	27.5°	1044.4	949.5	618.5	425.3	423.6	442.1	458.5	469.8	474.8	478.7
1183.1	30°	1102.5	982.5	564.1	399.1	406.9	424.3	436.1	441.1	442.6	443.3
1267.5	32.5°	1165.4	1010.9	507.0	377.4	390.9	407.1	414.1	416.3	409.4	404.6
1369.8	35°	1241.5	1041.4	451.0	360.2	375.2	389.1	391.4	389.4	381.2	371.4
1498.1	37.5°	1335.6	1079.3	406.4	348.0	360.4	369.7	366.9	366.4	367.2	355.7
1652.4	40°	1451.0	1128.7	373.7	338.5	348.5	350.4	342.7	347.0	350.7	333.2
1821.6	42.5°	1579.0	1188.4	352.9	332.0	338.5	333.7	321.7	326.5	326.0	303.0
1991.6	45°	1709.6	1253.3	345.7	327.2	329.2	319.7	306.5	307.8	297.3	276.6
2154.6	47.5°	1839.4	1322.9	350.2	323.2	317.8	307.0	296.8	291.3	275.8	260.3
2310.9	50°	1966.7	1396.1	366.7	315.3	302.0	295.8	288.3	278.6	262.1	248.9
2458.6	52.5°	2084.7	1469.7	385.1	302.0	282.3	286.1	281.3	270.1	253.9	240.4
2598.4	55°	2196.5	1543.3	392.4	283.8	263.8	277.6	274.8	254.1	234.6	223.6
2744.7	57.5°	2318.4	1631.9	384.4	260.6	248.9	267.8	257.3	234.4	223.1	214.9
2935.1	60°	2487.1	1771.0	367.2	231.9	234.6	253.4	235.4	225.9	213.7	204.4
3220.7	62.5°	2767.4	2030.3	339.5	203.4	217.9	231.9	224.9	215.4	202.9	193.9
3708.9	65°	3181.7	2390.7	287.3	181.2	199.2	210.9	213.7	204.2	191.2	181.7
4136.7	67.5°	3531.2	2616.9	217.4	162.7	180.0	193.9	201.7	192.4	178.7	169.5
4236.8	70°	3512.0	2452.6	166.0	144.5	163.0	177.2	187.2	180.0	165.2	156.5
3848.4	72.5°	3119.3	2051.8	134.3	126.1	145.8	159.7	171.7	166.2	151.3	142.8
2819.3	75°	2291.6	1456.5	107.3	107.3	124.3	141.5	154.8	151.3	137.5	131.5
1183.6	77.5°	966.0	611.0	84.1	89.1	103.3	121.6	138.0	139.3	127.3	134.8
313.0	80°	256.8	168.5	64.1	70.1	81.1	100.3	120.1	119.6	106.6	99.6
116.3	82.5°	97.8	66.4	45.7	49.4	58.7	76.9	95.1	98.1	85.1	73.6
45.7	85°	37.7	28.5	28.2	29.7	34.2	50.9	71.9	74.4	64.1	54.4
12.7	87.5°	9.7	8.5	10.5	10.0	15.7	27.2	41.2	42.7	39.2	22.7
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>
689.7
658.0
609.8
565.9
539.4
531.9
537.9
546.4
546.4
533.9
510.7
480.2
445.0
406.1
371.9
356.4
333.7
302.8
277.3
260.3
247.9
240.6
222.6
214.2
203.9
193.9
182.2
169.7
157.3
142.8
129.8
122.3
92.6
73.6
56.2
32.4
0.0

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