

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: P939035

Luminaire Tested: **GALN-SB1B-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939035  
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-SB1B-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4044 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

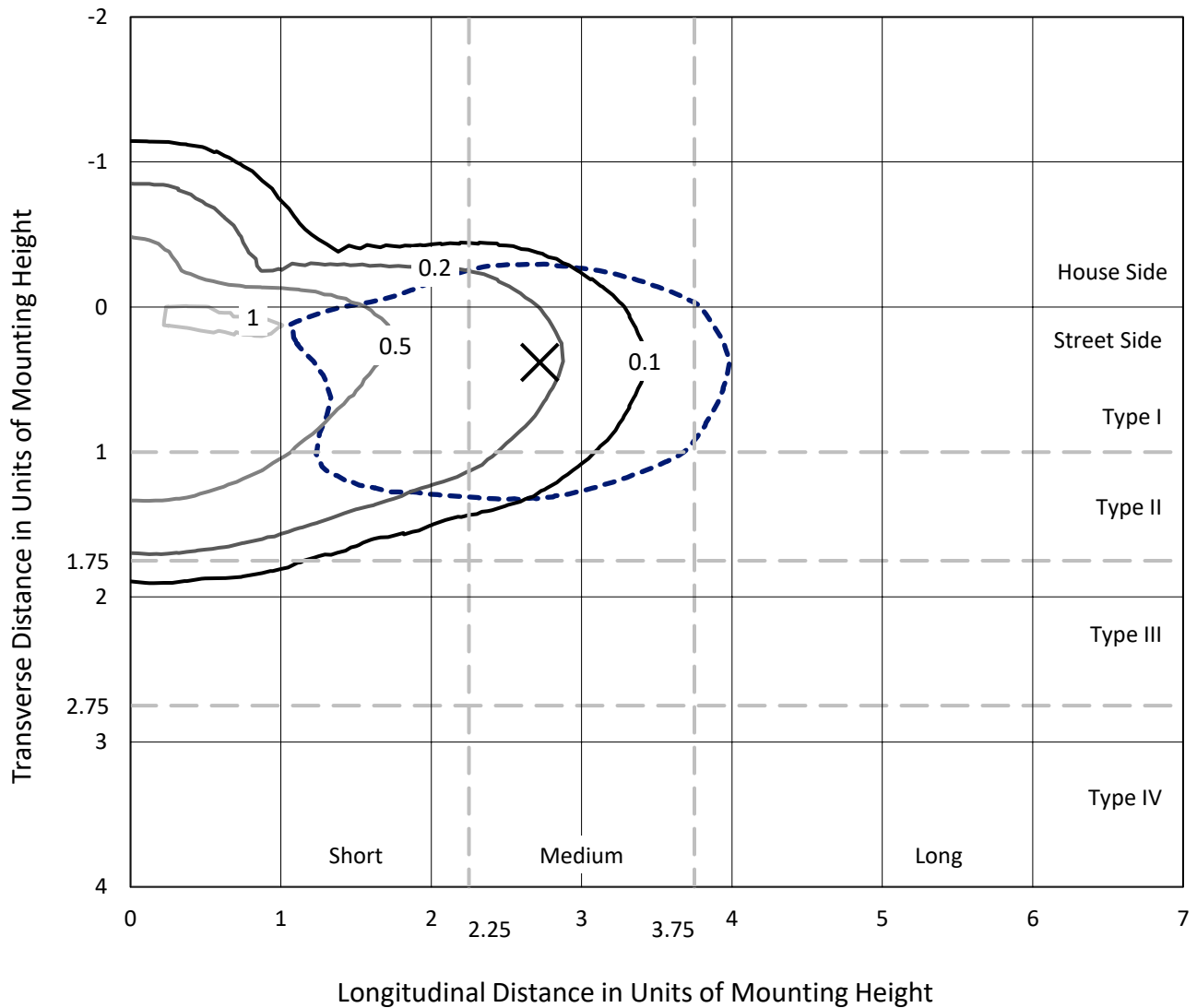
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

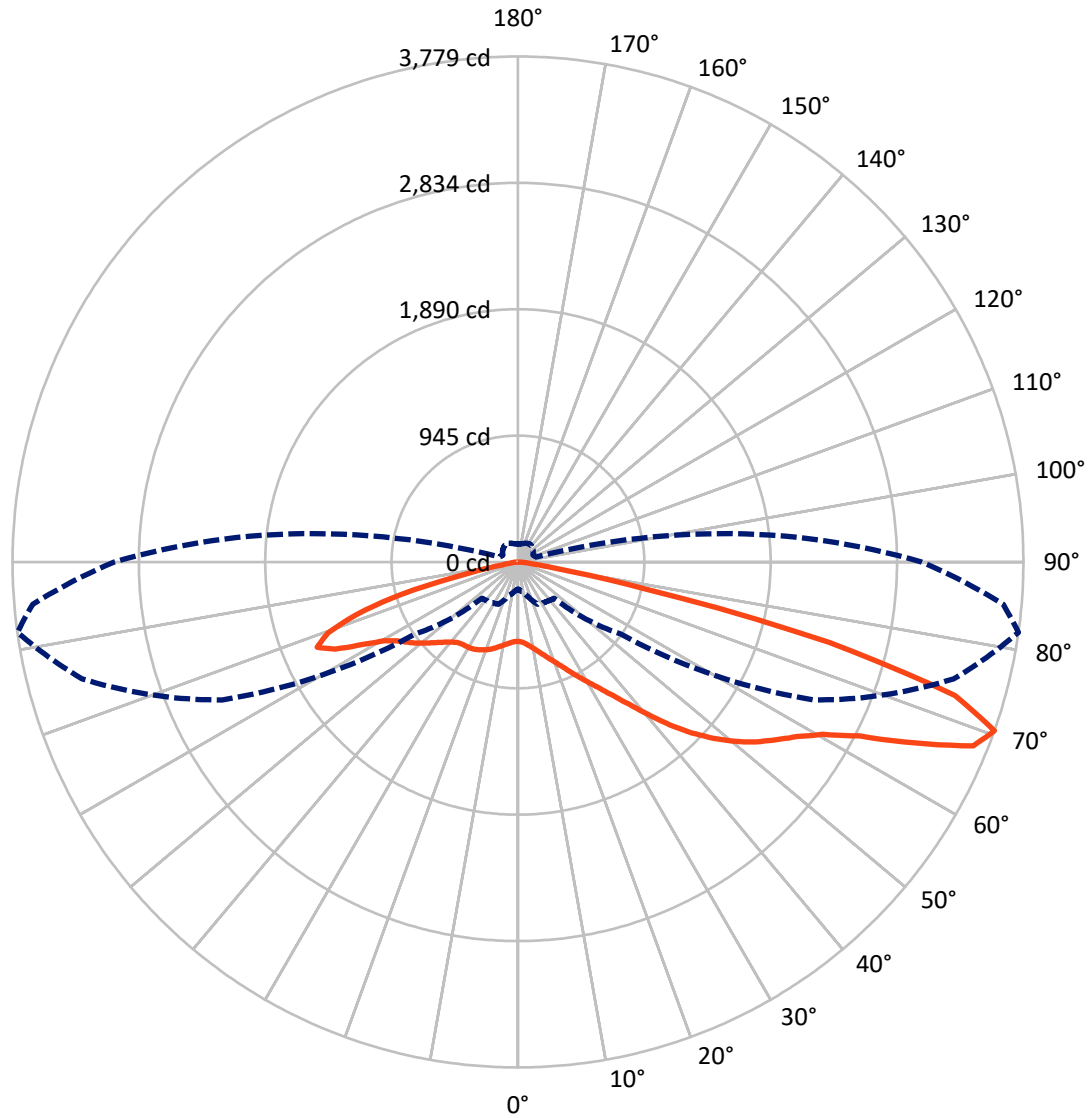
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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
<b>House Side</b>	Lumens	996.9	0.0	996.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	3047.1	0.0	3047.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	4044.0	0.0	4044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	1.4
10°-20°	160.8	4.0
20°-30°	269.1	6.7
30°-40°	420.3	10.4
40°-50°	669.4	16.6
50°-60°	931.6	23.0
60°-70°	974.5	24.1
70°-80°	509.3	12.6
80°-90°	52.9	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°	4044.0	100.0
0°-180°	4044.0	100.0

**Coefficient of Utilization**



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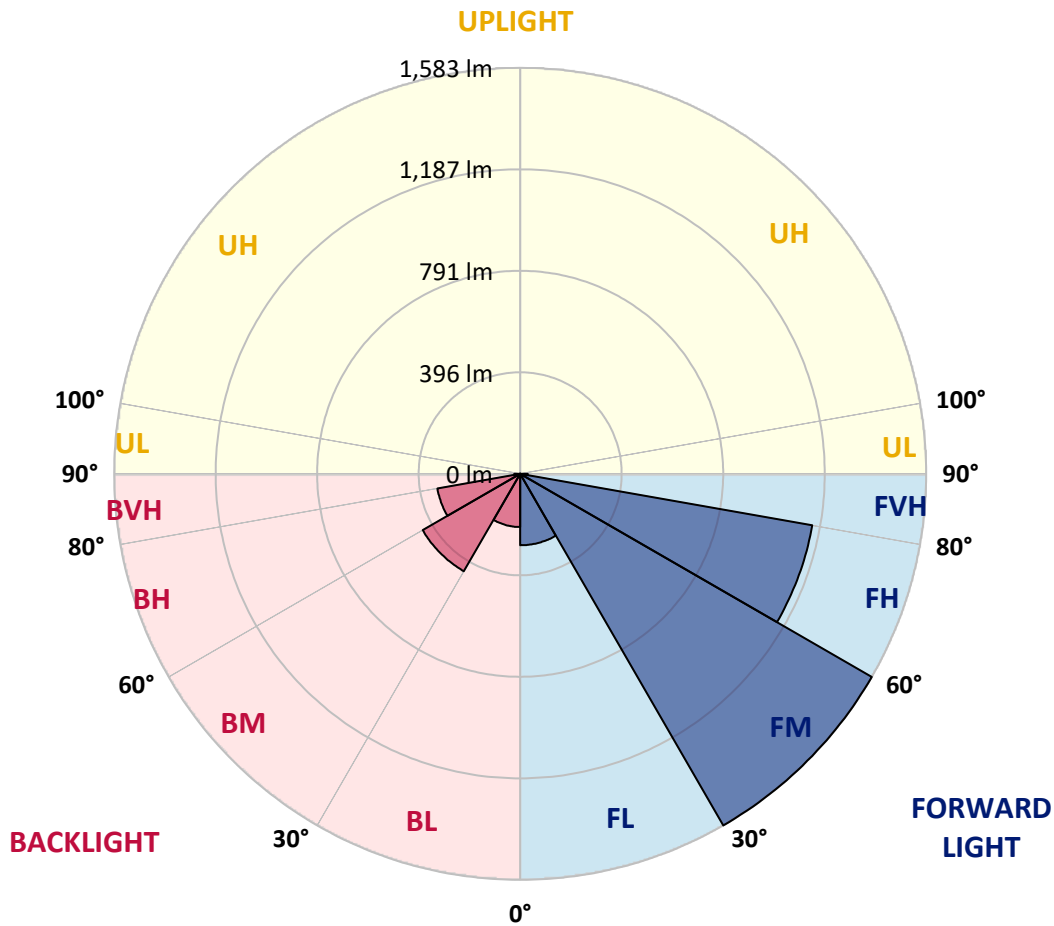
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.5	6.9			
FM (30°-60°)	1582.8	39.1			
FH (60°-80°)	1156.2	28.6			G1/1800
FVH (80°-90°)	29.6	0.7			G1/100
BL (0°-30°)	207.4	5.1	B1/500		
BM (30°-60°)	438.6	10.8	B1/1000		
BH (60°-80°)	327.6	8.1	B1/500		G1/500
BVH (80°-90°)	23.3	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°	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
2.5°	607.1	610.5	609.4	608.4	608.4	606.8	606.6	604.5	602.8	600.0
5°	614.8	618.4	618.0	618.9	621.7	622.3	622.9	621.7	618.2	614.8
7.5°	607.9	612.0	613.3	618.4	627.0	634.7	640.5	642.9	639.7	634.7
10°	584.7	589.3	593.8	606.0	621.2	639.5	654.9	664.1	663.5	658.8
12.5°	537.8	542.5	552.1	575.9	603.8	636.0	664.8	684.1	690.8	687.3
15°	500.2	504.3	511.6	536.0	572.3	621.2	668.4	706.0	722.9	721.0
17.5°	499.1	500.8	505.3	516.9	544.8	598.1	664.6	727.4	759.8	759.6
20°	518.0	518.7	521.2	523.6	539.5	580.5	654.7	745.3	801.3	801.3
22.5°	544.2	543.8	546.3	544.2	551.9	579.0	648.5	760.9	847.4	850.8
25°	583.5	581.3	580.7	575.7	577.2	592.9	655.3	778.7	902.1	909.2
27.5°	635.8	632.4	630.0	618.7	614.8	621.7	676.4	800.2	963.1	975.3
30°	704.1	697.8	694.4	674.7	660.7	661.8	708.1	828.7	1026.8	1046.5
32.5°	797.2	787.5	778.3	745.9	720.4	712.0	749.1	868.2	1095.9	1127.4
35°	901.5	893.8	883.9	833.9	794.6	775.3	804.5	923.4	1176.8	1226.8
37.5°	1001.9	995.2	1000.0	932.6	881.9	853.8	877.0	997.4	1276.6	1350.4
40°	1105.8	1100.6	1101.3	1036.9	977.9	946.3	965.0	1090.3	1390.9	1497.4
42.5°	1218.6	1214.8	1201.9	1144.8	1078.5	1049.1	1066.3	1197.6	1513.7	1664.8
45°	1345.0	1342.7	1330.6	1265.2	1189.2	1156.2	1179.4	1316.1	1637.1	1822.3
47.5°	1454.2	1456.2	1454.7	1399.5	1320.8	1272.3	1300.0	1439.7	1751.9	1970.3
50°	1506.8	1516.9	1531.7	1514.5	1465.6	1416.3	1421.6	1559.0	1861.3	2109.2
52.5°	1479.4	1498.5	1538.8	1566.3	1585.1	1574.8	1560.5	1677.4	1964.3	2234.5
55°	1377.0	1403.8	1470.8	1537.1	1633.4	1708.3	1727.2	1808.7	2064.7	2344.8
57.5°	1190.5	1234.1	1294.2	1428.3	1590.5	1772.9	1921.6	1990.9	2171.2	2462.6
60°	870.8	929.2	1003.8	1203.4	1440.3	1738.4	2087.1	2270.7	2322.5	2615.2
62.5°	557.3	593.3	662.0	850.0	1122.3	1561.3	2137.7	2620.5	2578.9	2865.4
65°	381.5	404.7	467.6	573.2	725.5	1162.2	2002.1	2882.7	2986.2	3261.9
67.5°	277.2	294.8	348.5	441.0	472.7	687.7	1553.6	2870.7	3382.1	3670.5
70°	202.1	214.6	259.6	348.5	363.7	382.6	941.2	2440.3	3373.5	3779.1
72.5°	149.8	158.4	188.6	270.4	294.4	258.4	465.9	1773.6	2898.8	3418.1
75°	108.4	114.8	137.1	206.9	235.6	196.8	232.4	1036.5	2022.0	2404.4
77.5°	82.8	87.8	102.4	151.5	188.6	147.6	144.2	476.8	958.8	963.5
80°	66.5	69.7	77.7	106.6	144.6	110.5	94.0	192.5	303.0	256.4
82.5°	48.9	54.3	65.7	74.9	103.4	76.2	57.3	97.2	115.2	99.1
85°	27.9	31.5	39.7	53.6	66.1	46.6	32.8	43.1	53.6	44.0
87.5°	9.9	12.9	13.9	21.0	28.8	19.3	12.7	12.4	17.6	13.1
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°
592.9	0°	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
599.3	2.5°	597.2	596.1	591.8	586.0	580.0	574.2	572.3	568.2	565.4	563.9
613.3	5°	609.2	605.8	595.7	582.8	569.3	554.7	544.4	535.0	528.1	521.7
632.4	7.5°	626.4	620.4	603.0	580.5	556.4	532.2	514.1	500.4	491.2	485.2
654.7	10°	646.3	637.1	610.5	576.8	539.7	504.9	483.7	471.9	466.1	462.9
680.2	12.5°	669.3	656.2	618.2	568.4	514.1	474.4	459.9	456.4	456.6	456.9
712.4	15°	697.6	679.4	624.4	550.2	480.9	451.1	448.5	454.1	459.9	462.6
748.9	17.5°	729.6	703.8	625.5	520.2	448.3	436.0	444.2	456.2	465.0	468.9
789.7	20°	763.9	728.7	617.8	477.7	421.4	423.8	438.4	453.8	463.5	468.4
836.2	22.5°	803.2	755.3	599.3	433.0	399.6	410.5	427.7	442.7	452.8	457.7
891.0	25°	848.0	785.2	570.4	395.5	380.7	395.5	412.6	425.1	433.2	437.8
952.1	27.5°	897.8	816.3	531.7	365.7	364.2	380.0	394.2	403.9	408.1	411.6
1017.1	30°	947.8	844.6	485.0	343.1	349.8	364.8	374.9	379.2	380.5	381.1
1089.7	32.5°	1001.9	869.1	435.8	324.5	336.0	350.0	356.0	357.9	351.9	347.8
1177.6	35°	1067.4	895.3	387.8	309.6	322.5	334.5	336.5	334.8	327.7	319.3
1287.9	37.5°	1148.2	927.9	349.3	299.1	309.9	317.8	315.4	315.0	315.7	305.8
1420.6	40°	1247.4	970.4	321.2	291.0	299.6	301.3	294.6	298.3	301.5	286.5
1566.0	42.5°	1357.5	1021.6	303.4	285.4	291.0	286.9	276.6	280.7	280.2	260.5
1712.2	45°	1469.7	1077.4	297.2	281.3	283.0	274.9	263.5	264.6	255.6	237.8
1852.3	47.5°	1581.3	1137.3	301.1	277.9	273.2	263.9	255.1	250.4	237.1	223.8
1986.6	50°	1690.7	1200.2	315.2	271.0	259.6	254.3	247.8	239.5	225.3	213.9
2113.7	52.5°	1792.2	1263.5	331.1	259.6	242.7	245.9	241.8	232.2	218.2	206.6
2233.8	55°	1888.4	1326.8	337.3	244.0	226.8	238.6	236.3	218.4	201.7	192.3
2359.6	57.5°	1993.1	1403.0	330.5	224.0	213.9	230.3	221.2	201.5	191.8	184.8
2523.3	60°	2138.1	1522.5	315.7	199.4	201.7	217.8	202.4	194.2	183.7	175.7
2768.8	62.5°	2379.1	1745.4	291.8	174.9	187.3	199.4	193.3	185.2	174.5	166.7
3188.5	65°	2735.3	2055.3	247.0	155.8	171.2	181.3	183.7	175.5	164.4	156.2
3556.3	67.5°	3035.7	2249.7	186.9	139.9	154.7	166.7	173.4	165.4	153.6	145.7
3642.4	70°	3019.2	2108.5	142.7	124.2	140.1	152.4	160.9	154.7	142.1	134.5
3308.5	72.5°	2681.7	1763.9	115.4	108.4	125.3	137.3	147.6	142.9	130.0	122.7
2423.7	75°	1970.1	1252.1	92.3	92.3	106.9	121.7	133.0	130.0	118.2	113.1
1017.6	77.5°	830.4	525.3	72.3	76.6	88.8	104.5	118.7	119.7	109.4	115.9
269.1	80°	220.8	144.8	55.1	60.3	69.7	86.3	103.2	102.8	91.6	85.6
100.0	82.5°	84.1	57.1	39.3	42.5	50.4	66.1	81.8	84.3	73.2	63.3
39.3	85°	32.4	24.5	24.2	25.5	29.4	43.8	61.8	63.9	55.1	46.8
10.9	87.5°	8.4	7.3	9.0	8.6	13.5	23.4	35.4	36.7	33.7	19.5
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>
592.9
565.6
524.2
486.5
463.7
457.3
462.4
469.7
469.7
459.0
439.0
412.9
382.6
349.1
319.7
306.4
286.9
260.3
238.4
223.8
213.1
206.9
191.4
184.1
175.3
166.7
156.6
145.9
135.2
122.7
111.6
105.1
79.6
63.3
48.3
27.9
0.0

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