

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: P945153

Luminaire Tested: **GALN-SB1A-940-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1A-940-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

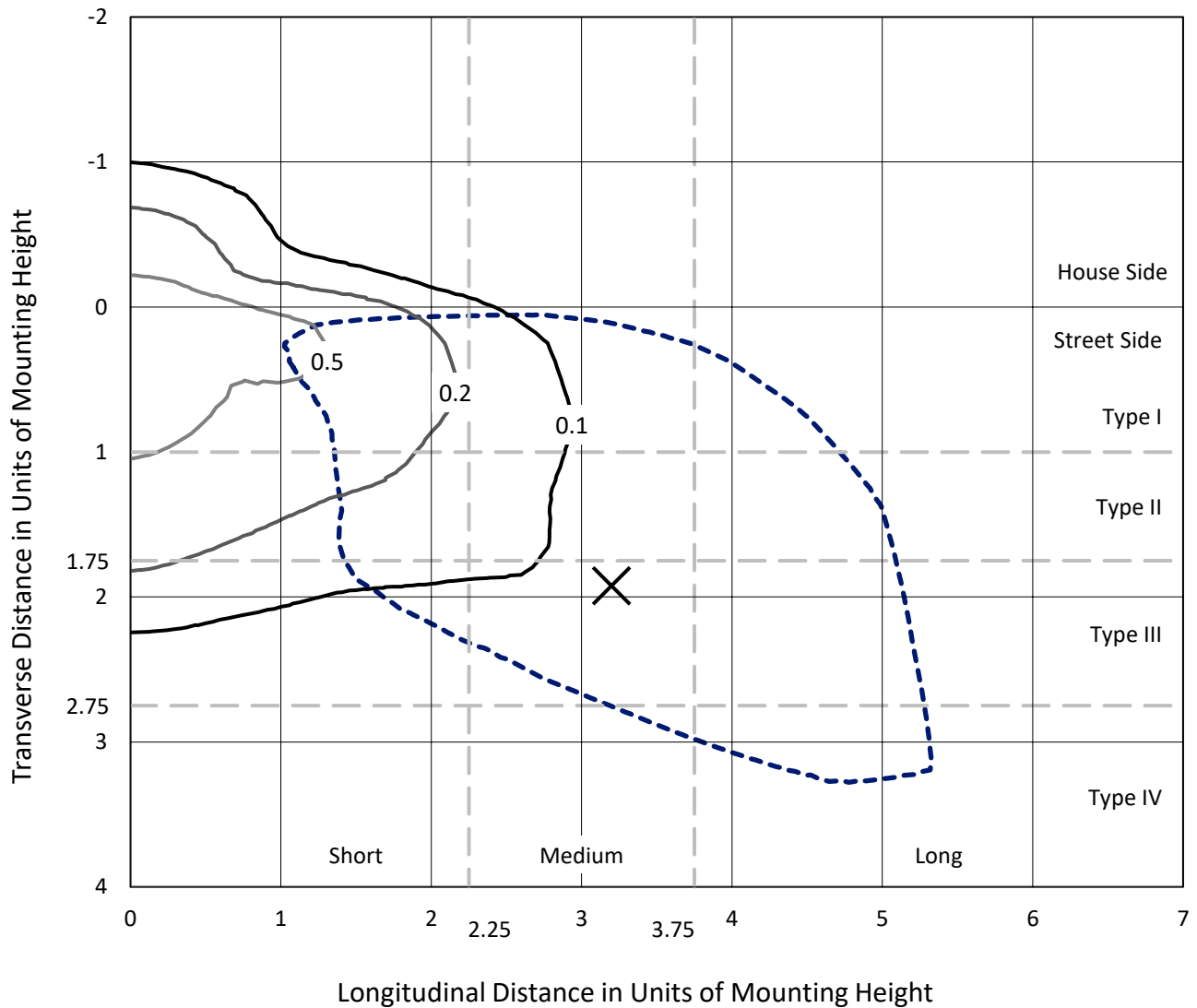
Lumens per Lamp: N/A  
Luminaire Lumens: 3178 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

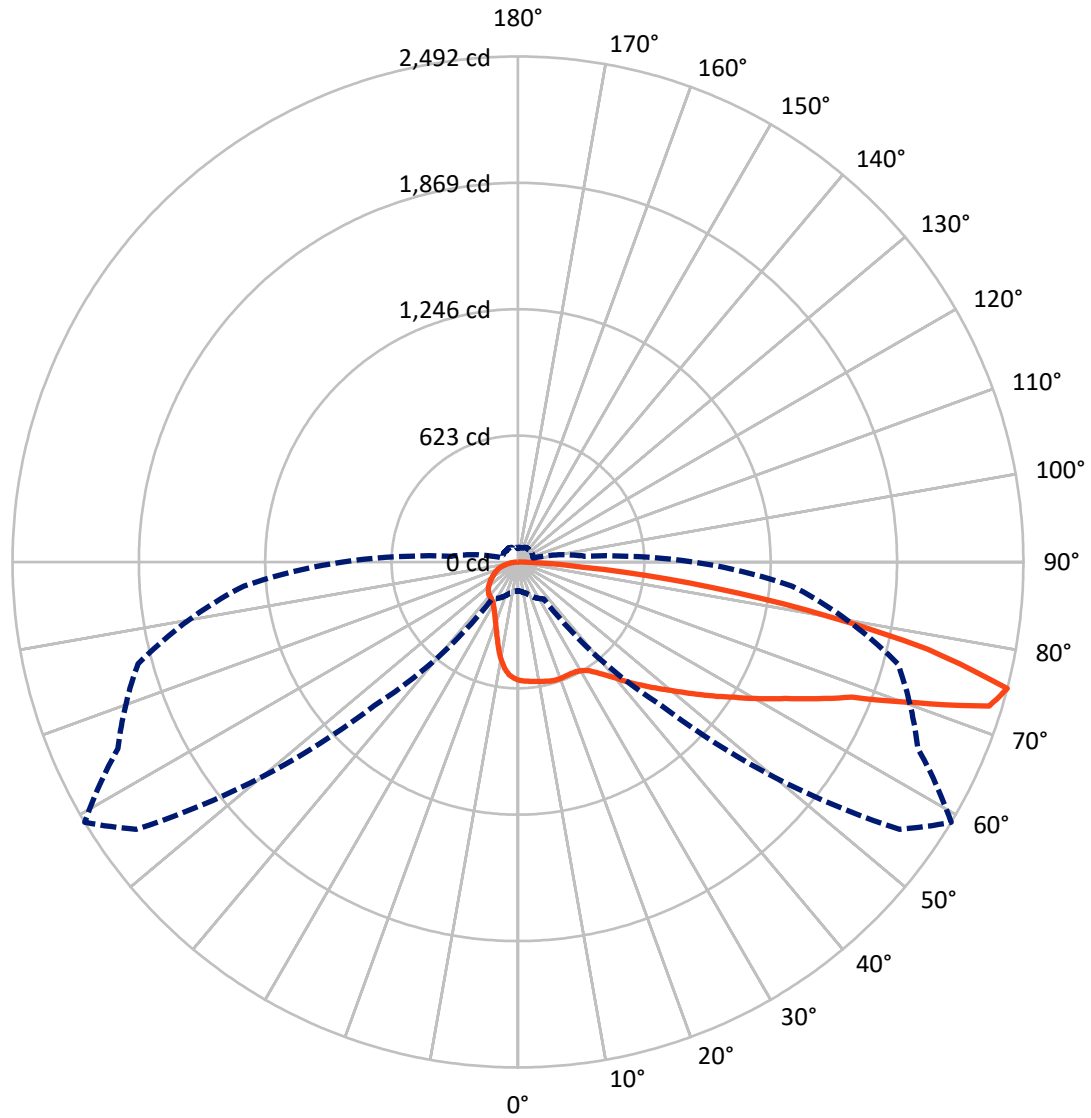
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	596.1	0.0	596.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	2581.9	0.0	2581.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3178.0	0.0	3178.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	1.6
10°-20°	133.7	4.2
20°-30°	203.1	6.4
30°-40°	301.9	9.5
40°-50°	448.9	14.1
50°-60°	609.3	19.2
60°-70°	743.9	23.4
70°-80°	583.8	18.4
80°-90°	101.1	3.2
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°	3178.0	100.0
0°-180°	3178.0	100.0

**Coefficient of Utilization**



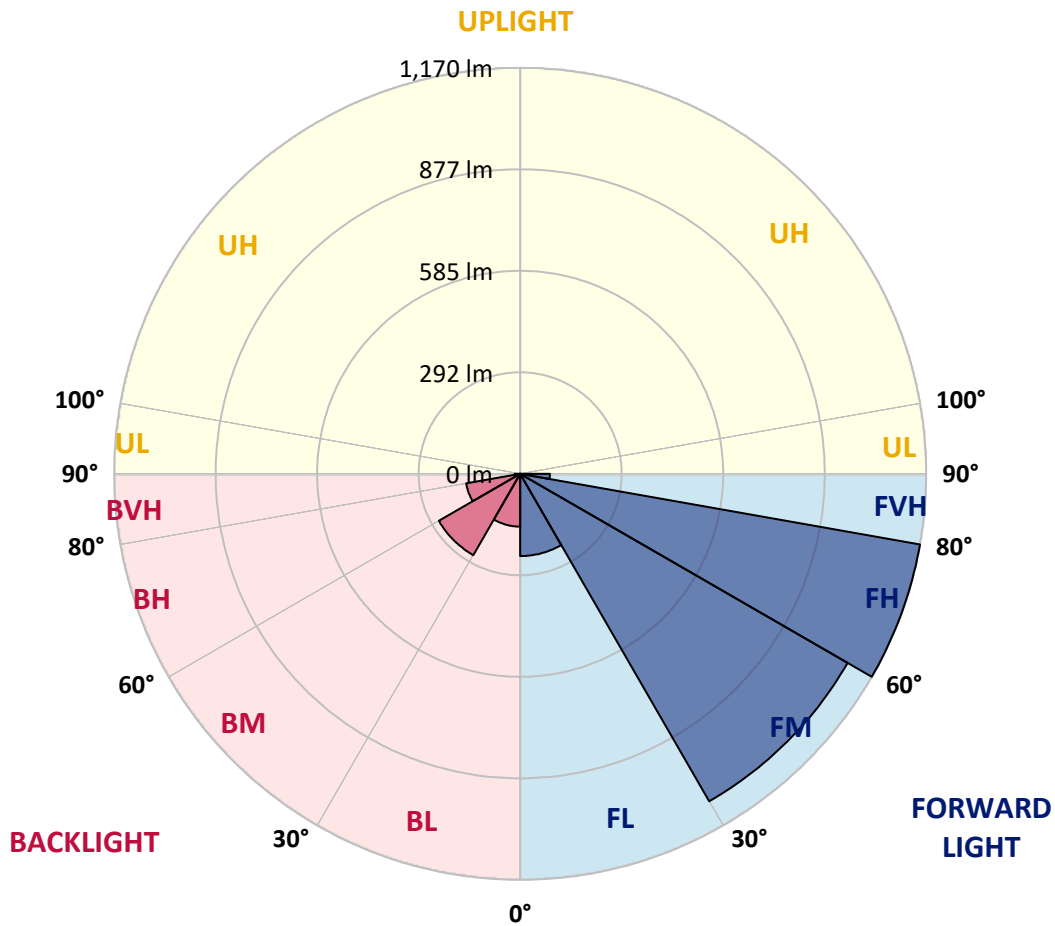
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.0	7.5			
FM (30°-60°)	1089.6	34.3			
FH (60°-80°)	1169.8	36.8			G1/1800
FVH (80°-90°)	85.6	2.7			G1/100
BL (0°-30°)	152.1	4.8	B1/500		
BM (30°-60°)	270.6	8.5	B1/1000		
BH (60°-80°)	157.9	5.0	B1/500		G1/500
BVH (80°-90°)	15.5	0.5			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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	588.3	586.2	588.3	587.4	587.1	586.4	586.6	587.8	587.1	587.9
5°	584.3	583.1	585.2	584.7	586.9	587.2	589.5	590.8	591.7	591.9
7.5°	577.8	576.6	579.6	581.9	586.7	588.1	592.7	594.9	596.1	598.2
10°	554.1	553.6	560.7	569.8	581.1	588.1	595.1	598.9	600.8	606.2
12.5°	512.0	512.7	522.1	539.5	562.1	584.7	597.8	603.3	606.2	613.1
15°	471.8	471.7	481.9	500.6	532.2	569.6	599.2	608.6	613.6	623.7
17.5°	448.6	447.9	455.1	469.3	498.7	546.6	595.8	611.5	622.1	634.8
20°	444.3	443.0	446.7	453.7	474.6	521.3	586.9	611.5	629.0	645.4
22.5°	459.9	457.7	456.1	455.3	464.5	500.4	576.8	609.5	639.0	660.6
25°	491.2	487.7	479.9	472.2	469.5	491.0	567.9	609.0	654.1	681.1
27.5°	541.8	537.5	521.6	503.1	486.6	495.8	564.0	612.0	670.7	702.8
30°	604.5	599.9	579.9	551.5	521.8	513.6	569.0	621.1	691.9	731.7
32.5°	660.8	655.6	638.5	609.6	569.5	544.3	584.7	638.4	725.2	771.9
35°	710.7	704.7	689.3	662.6	627.9	587.6	613.1	669.0	772.6	837.2
37.5°	759.6	752.6	735.8	707.6	683.3	645.2	652.2	708.3	835.5	916.5
40°	814.3	804.2	783.9	756.0	732.4	712.7	703.7	756.5	899.4	1005.1
42.5°	867.3	857.7	833.4	809.7	780.1	774.4	763.3	812.9	969.3	1102.3
45°	924.4	912.9	883.5	853.4	834.8	815.5	821.1	869.3	1037.9	1201.5
47.5°	977.9	965.1	930.4	896.9	886.6	850.0	874.1	931.4	1109.2	1302.0
50°	1006.8	994.1	965.2	935.0	926.9	892.6	931.6	999.6	1183.9	1402.2
52.5°	1030.9	1017.2	979.4	962.7	960.3	938.9	1002.3	1077.6	1258.6	1490.8
55°	1056.5	1041.3	993.1	978.1	989.0	990.9	1086.3	1165.9	1337.6	1577.1
57.5°	1086.1	1066.8	1006.3	991.1	1017.0	1051.7	1182.7	1257.6	1415.2	1657.1
60°	1114.0	1094.5	1031.6	1011.7	1047.3	1122.4	1293.3	1368.5	1503.1	1728.4
62.5°	1119.4	1103.4	1051.7	1051.6	1088.3	1204.8	1424.3	1480.5	1579.8	1798.8
65°	1024.7	1014.6	984.0	1050.0	1147.1	1323.4	1570.1	1623.8	1677.5	1860.4
67.5°	779.9	781.3	779.1	906.4	1099.6	1493.8	1781.2	1777.1	1798.0	1929.5
70°	356.6	364.7	417.0	625.7	881.0	1513.5	2130.3	2077.2	1949.3	2018.9
72.5°	192.7	198.8	220.2	303.1	529.6	1345.6	2391.2	2429.0	2150.5	2079.0
75°	141.4	144.8	159.7	192.7	222.4	1000.1	2297.7	2491.6	2175.6	1938.7
77.5°	105.8	107.4	119.5	152.7	113.9	527.2	1835.9	2063.5	1862.4	1592.8
80°	76.8	78.5	87.5	114.5	79.8	192.8	1260.7	1448.4	1275.5	1015.3
82.5°	53.0	53.7	57.6	78.0	55.7	74.9	715.3	849.3	712.0	356.3
85°	32.0	32.8	34.5	45.5	31.6	35.6	308.8	319.4	212.8	85.1
87.5°	13.2	14.0	15.4	19.1	12.5	9.9	50.9	63.9	39.8	25.0
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°
583.3	0°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
585.0	2.5°	584.2	583.0	579.7	575.3	571.2	566.0	563.8	561.9	560.2	557.0
589.6	5°	587.8	584.5	575.8	564.5	551.7	537.7	524.0	514.6	506.6	500.6
594.9	7.5°	593.2	587.1	571.2	548.1	518.7	488.6	461.4	442.1	427.6	422.3
602.5	10°	598.9	591.5	563.8	523.1	472.4	426.0	390.0	370.1	358.5	354.7
611.4	12.5°	605.5	594.8	552.4	488.4	420.6	369.8	338.3	326.7	320.7	318.7
622.3	15°	615.3	597.5	535.1	445.0	371.2	328.8	308.4	300.4	297.3	297.1
633.6	17.5°	622.6	598.0	508.3	398.5	333.2	304.0	287.2	284.1	286.2	289.3
644.7	20°	630.8	593.4	473.0	356.1	306.5	282.3	275.2	277.3	282.3	286.7
659.4	22.5°	636.7	585.0	430.5	323.1	283.5	269.8	269.4	273.7	276.4	278.7
676.7	25°	641.8	570.8	385.3	295.4	264.5	262.3	266.0	264.6	262.8	264.6
693.9	27.5°	645.5	548.4	345.0	271.1	251.1	257.1	254.9	251.8	251.7	252.7
714.3	30°	644.3	518.5	311.8	248.1	241.7	247.5	242.3	241.7	241.2	241.7
744.9	32.5°	644.3	484.5	286.4	232.2	235.8	233.5	233.0	231.8	229.8	229.6
786.4	35°	647.9	450.5	264.5	223.6	230.8	225.5	225.8	222.9	218.7	216.6
841.5	37.5°	655.3	423.1	242.8	219.5	222.1	221.9	220.5	215.6	208.1	201.6
910.2	40°	673.1	415.1	227.9	217.6	218.0	220.0	216.4	206.9	189.8	179.2
979.9	42.5°	700.9	428.6	224.6	213.0	215.2	217.3	210.3	188.1	175.9	169.6
1053.1	45°	736.3	452.2	231.7	206.3	208.7	212.3	191.5	180.9	175.4	175.6
1125.6	47.5°	781.1	477.0	244.6	200.5	199.3	201.4	179.0	172.5	165.0	166.9
1195.2	50°	832.9	502.1	257.0	192.7	188.9	182.2	171.0	164.8	155.2	150.8
1262.4	52.5°	889.0	526.4	261.9	183.1	177.6	169.9	165.5	158.0	146.3	139.0
1325.8	55°	942.2	548.4	256.4	171.6	166.3	160.4	159.7	155.1	142.6	132.3
1382.2	57.5°	992.4	566.9	242.8	160.0	154.9	151.3	155.9	153.7	138.0	124.8
1435.5	60°	1035.0	579.6	222.9	148.2	144.6	142.8	149.8	149.1	131.5	116.8
1483.4	62.5°	1068.8	584.5	201.0	136.9	136.1	132.7	141.2	141.2	123.3	108.9
1525.5	65°	1095.3	579.7	178.8	125.8	127.5	122.4	130.8	129.8	114.5	101.9
1573.9	67.5°	1118.8	564.0	154.2	114.9	118.8	112.3	119.8	117.4	105.0	94.9
1615.7	70°	1129.2	527.4	126.2	103.9	108.7	102.4	108.9	104.5	94.2	87.4
1569.8	72.5°	1045.4	438.3	99.3	92.5	96.6	91.5	97.1	92.0	82.6	79.5
1355.5	75°	864.9	328.9	76.4	80.0	83.1	79.2	82.9	79.2	70.6	72.8
1001.3	77.5°	628.1	222.1	58.5	66.8	68.2	66.2	69.4	65.1	57.4	56.9
499.0	80°	312.3	130.1	45.8	52.8	52.3	50.9	54.7	52.7	46.2	48.9
134.7	82.5°	90.4	55.7	33.3	37.1	36.1	36.4	39.1	40.2	60.2	59.7
41.9	85°	28.4	21.9	20.0	20.7	19.7	20.2	23.1	45.8	42.4	24.8
13.0	87.5°	7.4	7.5	5.0	5.3	5.5	6.5	7.4	27.9	13.3	8.7
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>
583.3
555.4
495.6
413.0
348.9
319.2
297.8
290.5
288.2
279.9
265.8
254.4
243.6
231.8
218.7
203.8
180.5
169.6
176.4
171.6
152.0
138.8
132.3
124.1
116.3
108.4
101.2
94.2
86.0
76.9
66.5
54.4
48.4
61.0
26.8
9.2
0.0

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