

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: P938835

Luminaire Tested: **GALN-SB1A-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938835  
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-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2706 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

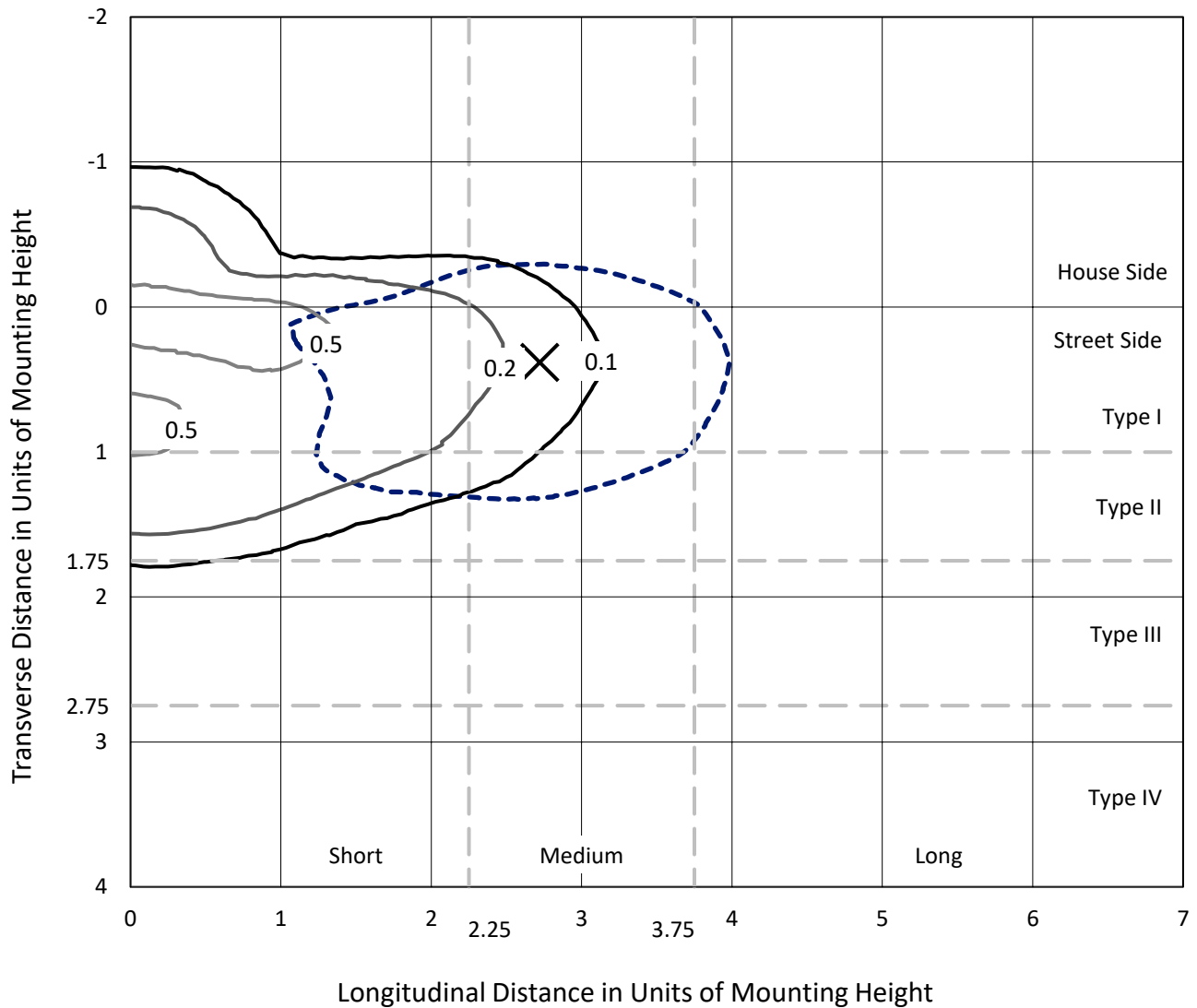
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

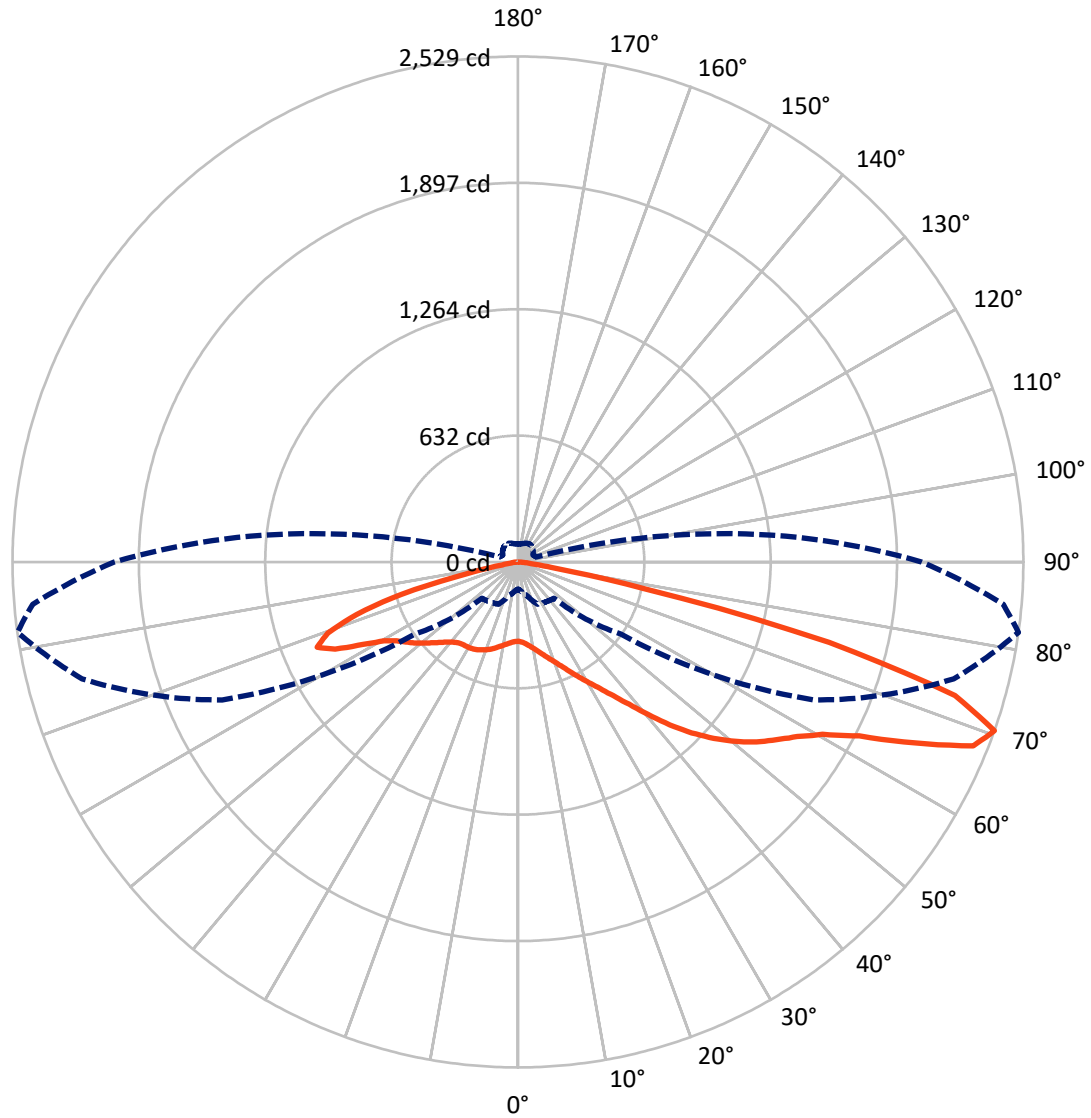
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	667.1	0.0	667.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	2038.9	0.0	2038.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	2706.0	0.0	2706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	1.4
10°-20°	107.6	4.0
20°-30°	180.0	6.7
30°-40°	281.3	10.4
40°-50°	448.0	16.6
50°-60°	623.4	23.0
60°-70°	652.1	24.1
70°-80°	340.8	12.6
80°-90°	35.4	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°	2706.0	100.0
0°-180°	2706.0	100.0

**Coefficient of Utilization**



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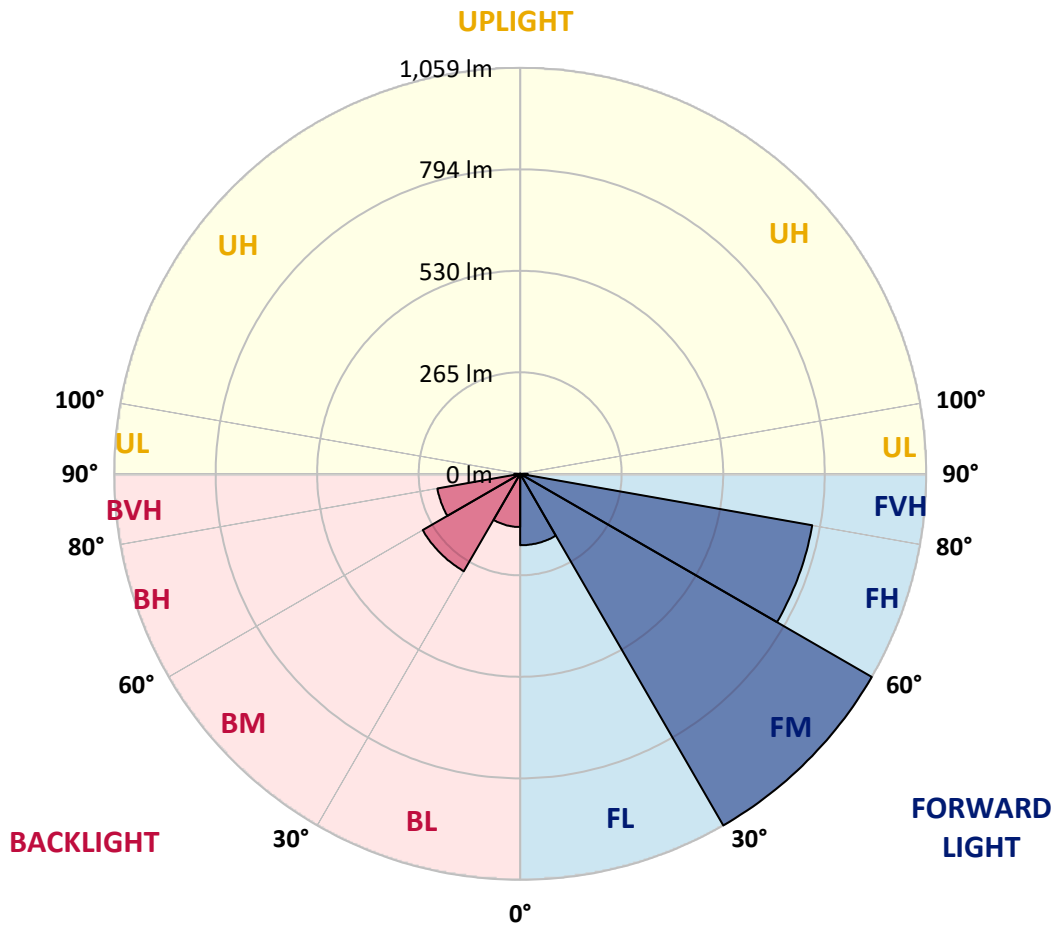
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.3	6.9			
FM (30°-60°)	1059.1	39.1			
FH (60°-80°)	773.7	28.6			G1/1800
FVH (80°-90°)	19.8	0.7			G1/100
BL (0°-30°)	138.8	5.1	B1/500		
BM (30°-60°)	293.5	10.8	B1/1000		
BH (60°-80°)	219.2	8.1	B1/500		G1/500
BVH (80°-90°)	15.6	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°	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7
2.5°	406.2	408.5	407.8	407.1	407.1	406.1	405.9	404.5	403.3	401.5
5°	411.4	413.8	413.5	414.1	416.0	416.4	416.8	416.0	413.7	411.4
7.5°	406.8	409.5	410.4	413.8	419.6	424.7	428.6	430.2	428.0	424.7
10°	391.3	394.3	397.3	405.5	415.7	427.9	438.2	444.4	444.0	440.8
12.5°	359.8	363.0	369.5	385.4	404.1	425.6	444.8	457.8	462.2	459.9
15°	334.7	337.4	342.3	358.7	382.9	415.7	447.3	472.4	483.7	482.5
17.5°	334.0	335.1	338.1	345.9	364.6	400.2	444.7	486.8	508.4	508.3
20°	346.6	347.1	348.8	350.4	361.0	388.4	438.1	498.7	536.2	536.2
22.5°	364.1	363.9	365.6	364.1	369.3	387.4	433.9	509.2	567.0	569.3
25°	390.4	389.0	388.5	385.2	386.3	396.7	438.5	521.1	603.6	608.4
27.5°	425.5	423.2	421.6	414.0	411.4	416.0	452.6	535.4	644.4	652.6
30°	471.1	466.9	464.7	451.4	442.1	442.8	473.8	554.5	687.1	700.3
32.5°	533.4	527.0	520.8	499.1	482.0	476.4	501.3	581.0	733.3	754.4
35°	603.2	598.0	591.4	558.0	531.7	518.8	538.3	617.9	787.4	820.9
37.5°	670.4	666.0	669.1	624.0	590.1	571.3	586.8	667.4	854.2	903.6
40°	739.9	736.5	736.9	693.8	654.3	633.2	645.7	729.6	930.7	1002.0
42.5°	815.4	812.9	804.2	766.0	721.7	702.0	713.5	801.4	1012.9	1114.0
45°	900.0	898.4	890.4	846.6	795.8	773.7	789.2	880.6	1095.4	1219.3
47.5°	973.1	974.4	973.4	936.5	883.8	851.3	869.9	963.3	1172.3	1318.4
50°	1008.3	1015.0	1024.9	1013.4	980.7	947.7	951.3	1043.2	1245.5	1411.3
52.5°	989.9	1002.7	1029.7	1048.0	1060.7	1053.8	1044.2	1122.4	1314.4	1495.2
55°	921.4	939.4	984.2	1028.5	1093.0	1143.1	1155.7	1210.3	1381.6	1569.0
57.5°	796.6	825.8	866.0	955.7	1064.3	1186.3	1285.8	1332.2	1452.8	1647.8
60°	582.7	621.7	671.7	805.2	963.8	1163.2	1396.5	1519.4	1554.1	1749.9
62.5°	372.9	397.0	443.0	568.8	751.0	1044.7	1430.4	1753.5	1725.6	1917.3
65°	255.3	270.8	312.9	383.5	485.5	777.7	1339.7	1929.0	1998.2	2182.7
67.5°	185.5	197.3	233.2	295.1	316.3	460.2	1039.6	1920.9	2263.1	2456.1
70°	135.3	143.6	173.7	233.2	243.4	256.0	629.8	1632.9	2257.3	2528.7
72.5°	100.2	106.0	126.2	180.9	197.0	172.9	311.7	1186.8	1939.7	2287.2
75°	72.5	76.8	91.8	138.4	157.7	131.7	155.5	693.5	1353.0	1608.9
77.5°	55.4	58.7	68.5	101.4	126.2	98.8	96.5	319.1	641.6	644.7
80°	44.5	46.7	52.0	71.4	96.8	73.9	62.9	128.8	202.7	171.6
82.5°	32.7	36.3	43.9	50.1	69.2	51.0	38.3	65.0	77.1	66.3
85°	18.7	21.1	26.6	35.9	44.2	31.2	22.0	28.9	35.9	29.4
87.5°	6.6	8.6	9.3	14.1	19.2	12.9	8.5	8.3	11.8	8.8
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°
396.7	0°	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7
401.0	2.5°	399.6	398.9	396.0	392.1	388.1	384.2	382.9	380.2	378.4	377.3
410.4	5°	407.6	405.3	398.6	390.0	380.9	371.2	364.3	358.0	353.4	349.1
423.2	7.5°	419.1	415.1	403.5	388.4	372.3	356.1	344.0	334.8	328.7	324.7
438.1	10°	432.5	426.3	408.5	386.0	361.1	337.9	323.6	315.7	311.9	309.7
455.2	12.5°	447.9	439.1	413.7	380.4	344.0	317.5	307.7	305.4	305.6	305.7
476.7	15°	466.8	454.6	417.8	368.2	321.8	301.8	300.1	303.8	307.7	309.6
501.1	17.5°	488.2	471.0	418.6	348.1	300.0	291.8	297.2	305.3	311.2	313.7
528.4	20°	511.2	487.6	413.4	319.6	282.0	283.6	293.4	303.7	310.1	313.5
559.6	22.5°	537.4	505.4	401.0	289.8	267.4	274.7	286.2	296.2	303.0	306.3
596.2	25°	567.5	525.4	381.7	264.6	254.7	264.6	276.1	284.4	289.9	292.9
637.1	27.5°	600.8	546.2	355.8	244.7	243.7	254.3	263.8	270.2	273.1	275.4
680.6	30°	634.2	565.2	324.5	229.6	234.0	244.1	250.8	253.7	254.6	255.0
729.1	32.5°	670.4	581.5	291.6	217.1	224.9	234.2	238.2	239.5	235.5	232.8
788.0	35°	714.2	599.0	259.5	207.2	215.8	223.9	225.1	224.0	219.3	213.7
861.8	37.5°	768.3	620.9	233.8	200.2	207.3	212.7	211.1	210.8	211.2	204.6
950.6	40°	834.7	649.3	215.0	194.7	200.4	201.6	197.1	199.6	201.7	191.7
1047.9	42.5°	908.3	683.6	203.0	191.0	194.7	192.0	185.1	187.8	187.5	174.3
1145.7	45°	983.4	721.0	198.9	188.2	189.4	183.9	176.3	177.0	171.0	159.1
1239.5	47.5°	1058.1	761.0	201.5	185.9	182.8	176.6	170.7	167.6	158.7	149.8
1329.3	50°	1131.3	803.1	210.9	181.4	173.7	170.2	165.8	160.2	150.8	143.2
1414.3	52.5°	1199.2	845.4	221.6	173.7	162.4	164.6	161.8	155.4	146.0	138.3
1494.8	55°	1263.6	887.8	225.7	163.3	151.8	159.7	158.1	146.2	135.0	128.7
1578.9	57.5°	1333.6	938.8	221.1	149.9	143.2	154.1	148.0	134.8	128.4	123.6
1688.5	60°	1430.7	1018.8	211.2	133.4	135.0	145.7	135.4	129.9	122.9	117.6
1852.7	62.5°	1592.0	1167.9	195.3	117.0	125.4	133.4	129.4	123.9	116.7	111.6
2133.6	65°	1830.3	1375.3	165.3	104.2	114.6	121.3	122.9	117.5	110.0	104.5
2379.7	67.5°	2031.3	1505.4	125.1	93.6	103.5	111.6	116.0	110.7	102.8	97.5
2437.3	70°	2020.3	1410.9	95.5	83.1	93.8	101.9	107.7	103.5	95.1	90.0
2213.8	72.5°	1794.4	1180.3	77.3	72.5	83.9	91.9	98.8	95.6	87.0	82.1
1621.8	75°	1318.3	837.8	61.7	61.7	71.5	81.4	89.0	87.0	79.1	75.7
680.9	77.5°	555.7	351.5	48.4	51.3	59.4	69.9	79.4	80.1	73.2	77.5
180.1	80°	147.8	96.9	36.9	40.3	46.7	57.7	69.1	68.8	61.3	57.3
66.9	82.5°	56.3	38.2	26.3	28.4	33.7	44.2	54.7	56.4	49.0	42.4
26.3	85°	21.7	16.4	16.2	17.1	19.7	29.3	41.4	42.8	36.9	31.3
7.3	87.5°	5.6	4.9	6.0	5.7	9.0	15.7	23.7	24.6	22.5	13.1
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>
396.7
378.5
350.8
325.5
310.3
306.0
309.4
314.3
314.3
307.1
293.8
276.3
256.0
233.6
213.9
205.0
192.0
174.2
159.5
149.8
142.6
138.4
128.1
123.2
117.3
111.6
104.8
97.6
90.5
82.1
74.7
70.4
53.3
42.4
32.3
18.7
0.0

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