

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: P939009

Luminaire Tested: **GALN-SB1B-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-927-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

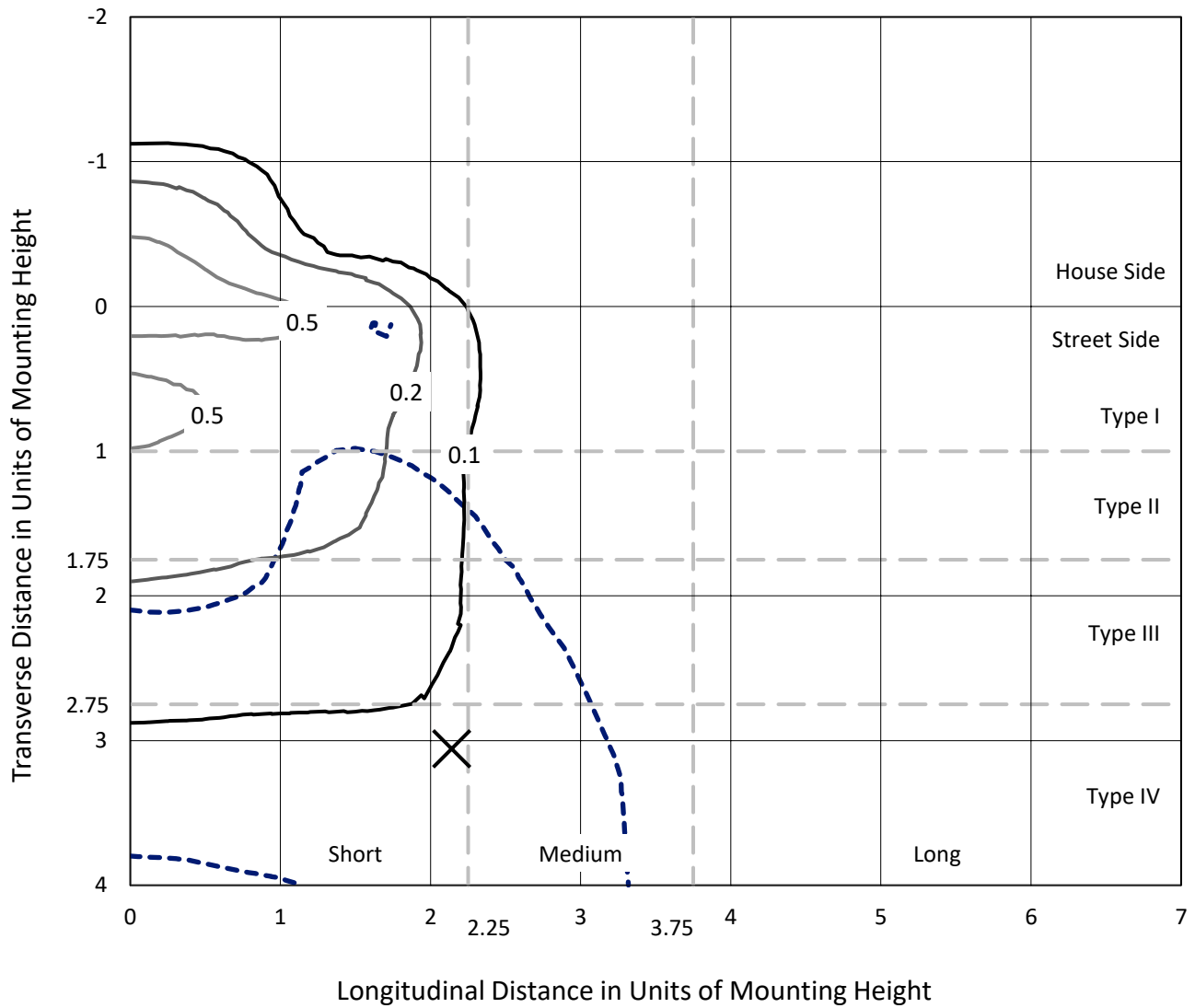
Lumens per Lamp: N/A  
Luminaire Lumens: 3389 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

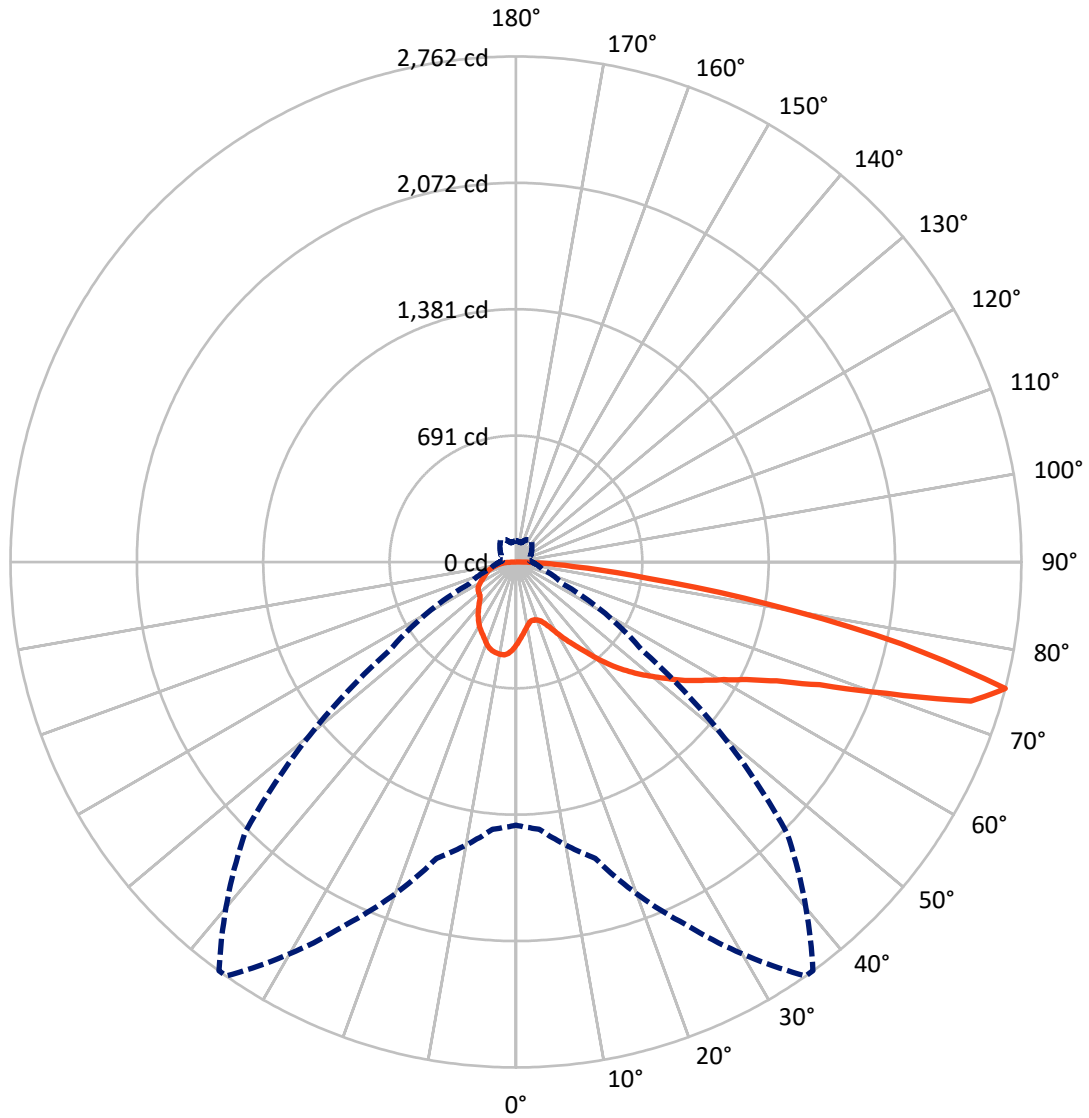
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	806.5	0.0	806.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	2582.5	0.0	2582.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	3389.0	0.0	3389.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.8	1.3
10°-20°	123.3	3.6
20°-30°	207.1	6.1
30°-40°	321.9	9.5
40°-50°	477.8	14.1
50°-60°	659.6	19.5
60°-70°	800.2	23.6
70°-80°	661.3	19.5
80°-90°	95.1	2.8
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°	3389.0	100.0
0°-180°	3389.0	100.0

**Coefficient of Utilization**



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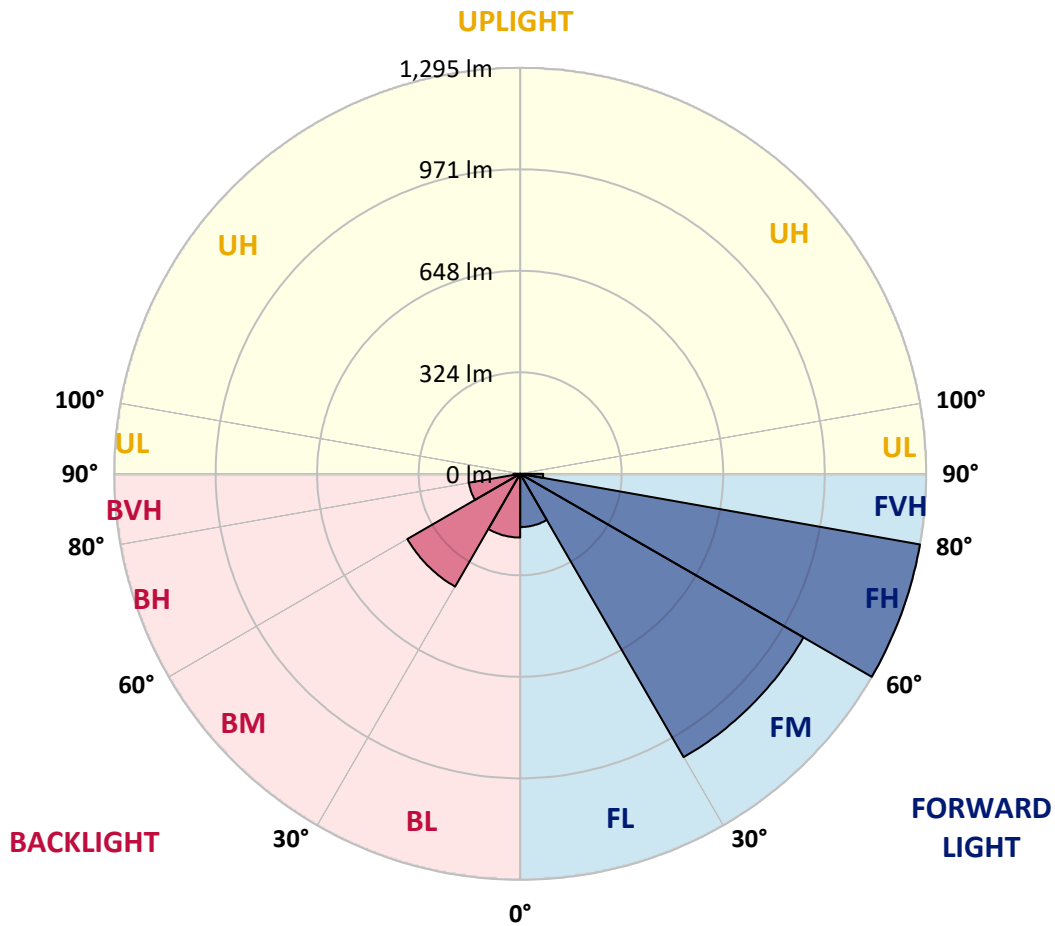
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.0	5.0			
FM (30°-60°)	1043.6	30.8			
FH (60°-80°)	1295.2	38.2			G1/1800
FVH (80°-90°)	73.7	2.2			G1/100
BL (0°-30°)	203.2	6.0	B1/500		
BM (30°-60°)	415.6	12.3	B1/1000		
BH (60°-80°)	166.3	4.9	B1/500		G1/500
BVH (80°-90°)	21.4	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6
2.5°	416.4	419.0	420.1	419.5	422.3	421.9	425.8	430.5	437.1	443.5
5°	384.4	387.1	389.5	391.7	397.0	398.7	404.7	413.9	426.0	438.2
7.5°	354.5	356.9	360.6	364.6	373.6	375.2	385.3	399.6	416.4	434.4
10°	330.1	332.5	336.4	340.9	352.1	354.1	367.0	386.0	408.0	430.7
12.5°	319.7	320.4	322.6	327.2	336.9	338.2	352.3	374.1	399.8	428.0
15°	319.1	320.6	320.8	323.2	331.2	331.8	344.8	366.4	394.6	427.4
17.5°	324.6	325.7	324.1	325.6	332.3	333.3	343.5	362.8	393.0	429.8
20°	339.3	340.2	335.3	333.3	338.2	338.9	349.0	365.1	394.6	434.8
22.5°	370.4	371.0	358.9	350.7	351.0	351.4	360.2	374.8	401.0	443.7
25°	419.0	418.6	399.4	383.5	374.3	372.3	378.1	390.6	411.9	455.6
27.5°	475.8	473.0	453.8	430.0	410.0	407.1	405.8	411.1	427.2	471.4
30°	539.9	537.3	516.6	485.5	457.8	453.1	441.0	438.2	450.1	492.8
32.5°	610.3	608.6	583.9	546.1	509.1	503.6	483.3	476.0	485.3	525.3
35°	669.3	667.8	647.3	608.4	563.2	556.4	535.7	527.5	532.2	566.8
37.5°	722.6	721.8	704.3	673.7	626.9	618.7	595.4	592.7	591.8	621.6
40°	772.0	770.2	751.9	735.8	701.1	693.6	673.1	670.7	663.8	689.0
42.5°	826.8	822.1	795.5	788.0	778.6	772.4	760.1	760.5	745.1	765.1
45°	871.5	868.8	841.5	837.1	847.2	844.6	855.2	858.0	828.1	844.8
47.5°	919.5	917.0	893.9	890.8	918.1	918.8	956.3	957.3	909.1	927.6
50°	978.7	975.0	952.1	956.0	986.6	989.3	1058.0	1051.8	983.6	1011.7
52.5°	1017.7	1019.9	1015.0	1021.2	1063.0	1065.5	1158.1	1142.1	1057.5	1094.7
55°	1046.5	1050.9	1066.3	1080.6	1143.6	1146.1	1252.4	1228.0	1118.7	1171.6
57.5°	1083.5	1077.3	1106.0	1133.9	1220.2	1226.9	1344.2	1310.9	1172.9	1237.9
60°	1136.6	1132.2	1154.6	1195.8	1305.9	1316.7	1441.3	1385.4	1212.7	1290.5
62.5°	1244.3	1233.4	1236.8	1273.3	1414.0	1428.3	1550.9	1450.5	1232.4	1311.0
65°	1405.4	1386.5	1368.9	1394.2	1566.2	1580.4	1674.5	1501.6	1225.1	1271.3
67.5°	1608.2	1589.5	1567.9	1591.7	1790.5	1801.7	1827.1	1530.3	1167.4	1118.1
70°	1775.5	1768.5	1794.3	1892.4	2148.7	2149.0	2022.8	1506.5	1009.3	792.7
72.5°	1753.3	1749.1	1885.2	2188.2	2600.1	2590.4	2208.0	1326.2	679.9	357.6
75°	1438.4	1465.7	1676.5	2182.9	2762.2	2760.9	2094.6	843.1	281.2	148.2
77.5°	771.3	814.5	1088.4	1611.7	2156.4	2188.8	1472.6	295.0	120.7	94.9
80°	251.5	289.3	433.8	820.6	1401.2	1395.1	631.2	115.8	82.6	67.2
82.5°	106.8	111.2	193.8	387.5	719.1	707.9	201.0	66.5	58.1	46.0
85°	41.8	46.7	85.6	179.2	311.5	304.7	72.6	33.0	37.2	30.0
87.5°	13.7	16.7	30.6	61.4	96.9	93.4	17.8	11.4	16.1	13.7
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°
451.6	0°	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6	451.6
452.9	2.5°	455.5	458.4	461.9	467.0	471.4	475.1	478.9	481.3	482.2	485.0
453.6	5°	458.8	465.2	473.8	482.2	490.4	495.4	499.8	502.0	504.0	505.5
455.6	7.5°	464.2	472.5	486.1	497.0	504.0	508.0	511.0	510.2	511.0	511.3
457.8	10°	469.0	480.6	496.7	507.1	512.4	512.6	511.9	509.3	508.0	508.2
461.1	12.5°	474.7	487.5	504.9	513.7	515.2	511.1	508.0	503.6	502.0	501.3
466.1	15°	482.4	497.0	513.9	517.2	513.5	508.4	503.1	495.9	492.3	489.3
474.5	17.5°	491.7	507.9	520.9	518.5	510.6	502.2	493.6	482.8	475.2	472.1
486.1	20°	504.7	519.2	526.2	515.7	503.8	491.0	476.3	463.1	456.2	453.1
500.7	22.5°	520.5	534.4	531.3	511.0	494.1	473.6	455.3	445.6	442.1	439.9
519.6	25°	539.4	551.3	535.0	504.0	478.2	450.5	436.4	433.3	431.6	430.0
542.7	27.5°	563.9	570.3	537.7	493.7	453.3	426.0	420.8	421.4	420.8	418.1
574.7	30°	596.3	595.1	540.3	477.1	424.7	403.8	404.2	406.5	406.9	405.1
619.4	32.5°	639.0	626.0	541.6	455.5	397.4	384.4	384.7	387.3	389.1	386.0
677.9	35°	690.7	662.1	539.5	428.3	376.3	365.9	363.1	363.9	364.4	361.5
748.8	37.5°	751.0	702.6	530.6	398.3	358.9	347.7	341.9	336.9	334.0	331.2
829.0	40°	817.1	746.8	514.1	369.0	339.5	328.5	319.7	310.4	300.5	296.8
914.0	42.5°	886.4	792.2	494.1	340.9	317.1	308.2	298.8	285.3	270.4	262.9
1002.3	45°	958.2	838.7	474.5	313.3	294.2	290.4	279.6	263.3	247.1	237.6
1090.8	47.5°	1028.5	882.7	445.7	285.4	272.8	277.0	268.6	253.6	235.6	220.6
1178.6	50°	1095.8	923.9	398.7	257.2	255.4	273.0	264.9	243.3	222.8	203.5
1264.7	52.5°	1162.5	957.3	338.4	231.6	246.0	271.9	260.2	236.3	211.2	191.1
1345.7	55°	1219.1	974.5	280.3	209.6	232.5	262.5	254.5	228.1	194.9	173.5
1401.2	57.5°	1251.3	960.6	231.9	188.0	213.8	247.1	244.8	210.5	175.5	159.0
1412.0	60°	1237.4	904.1	192.4	169.1	196.0	230.5	227.9	193.1	160.7	145.1
1354.1	62.5°	1160.6	796.6	161.0	152.6	179.9	213.4	211.1	179.7	149.3	134.3
1200.4	65°	1006.0	648.0	136.7	138.9	163.6	192.9	196.4	168.6	140.3	125.7
928.7	67.5°	767.3	469.4	117.6	127.0	147.7	172.8	182.8	160.5	132.8	118.9
537.3	70°	437.3	266.6	101.5	115.4	133.6	154.1	172.4	154.1	124.8	113.2
201.3	72.5°	165.8	122.4	87.8	103.9	120.0	138.3	160.9	144.0	115.4	106.8
104.1	75°	88.5	74.6	73.8	90.3	104.4	122.9	146.4	134.1	108.5	112.9
72.0	77.5°	60.3	52.8	61.7	77.3	87.4	105.9	131.0	119.1	94.0	93.6
49.8	80°	41.8	37.4	50.2	62.3	67.6	89.0	114.3	102.2	76.6	71.5
30.8	82.5°	25.1	24.4	37.6	46.5	47.8	68.7	94.7	85.7	62.7	54.6
18.3	85°	13.7	14.5	24.0	27.3	27.8	48.0	74.2	66.3	48.2	40.5
6.6	87.5°	3.8	4.9	8.8	10.8	13.4	24.9	44.2	39.4	24.2	16.9
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>
451.6
484.8
505.8
511.9
508.6
500.9
490.3
472.3
452.7
440.2
430.0
418.6
406.0
387.5
363.5
333.1
298.4
263.8
236.9
218.9
201.9
188.9
171.7
156.8
142.9
131.9
123.3
116.7
111.8
105.3
<i>116.5</i>
86.3
68.3
55.0
40.9
16.9
0.0

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