

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: P939002

Luminaire Tested: **GALN-SB1B-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
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-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

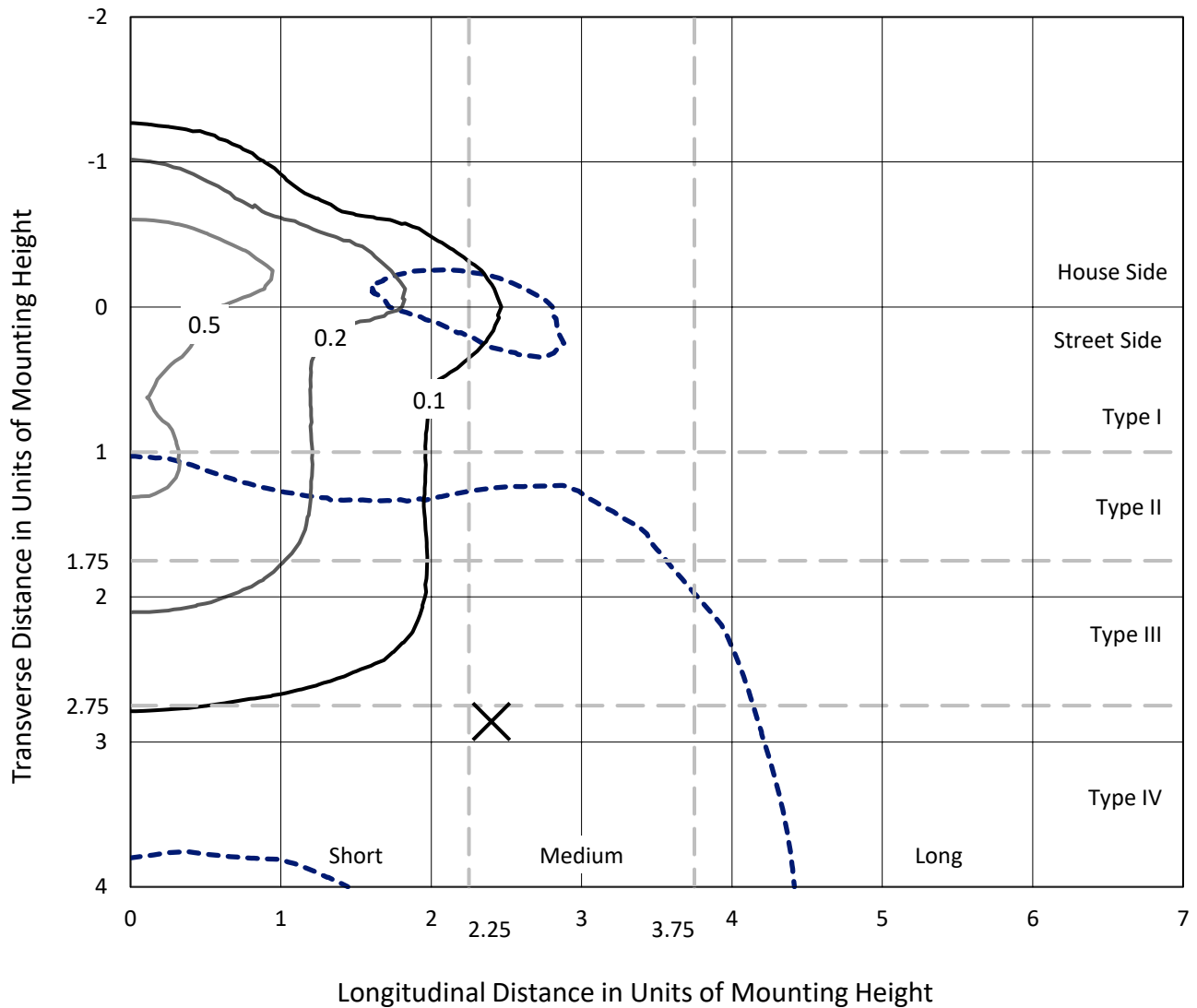
Lumens per Lamp: N/A  
Luminaire Lumens: 3399 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

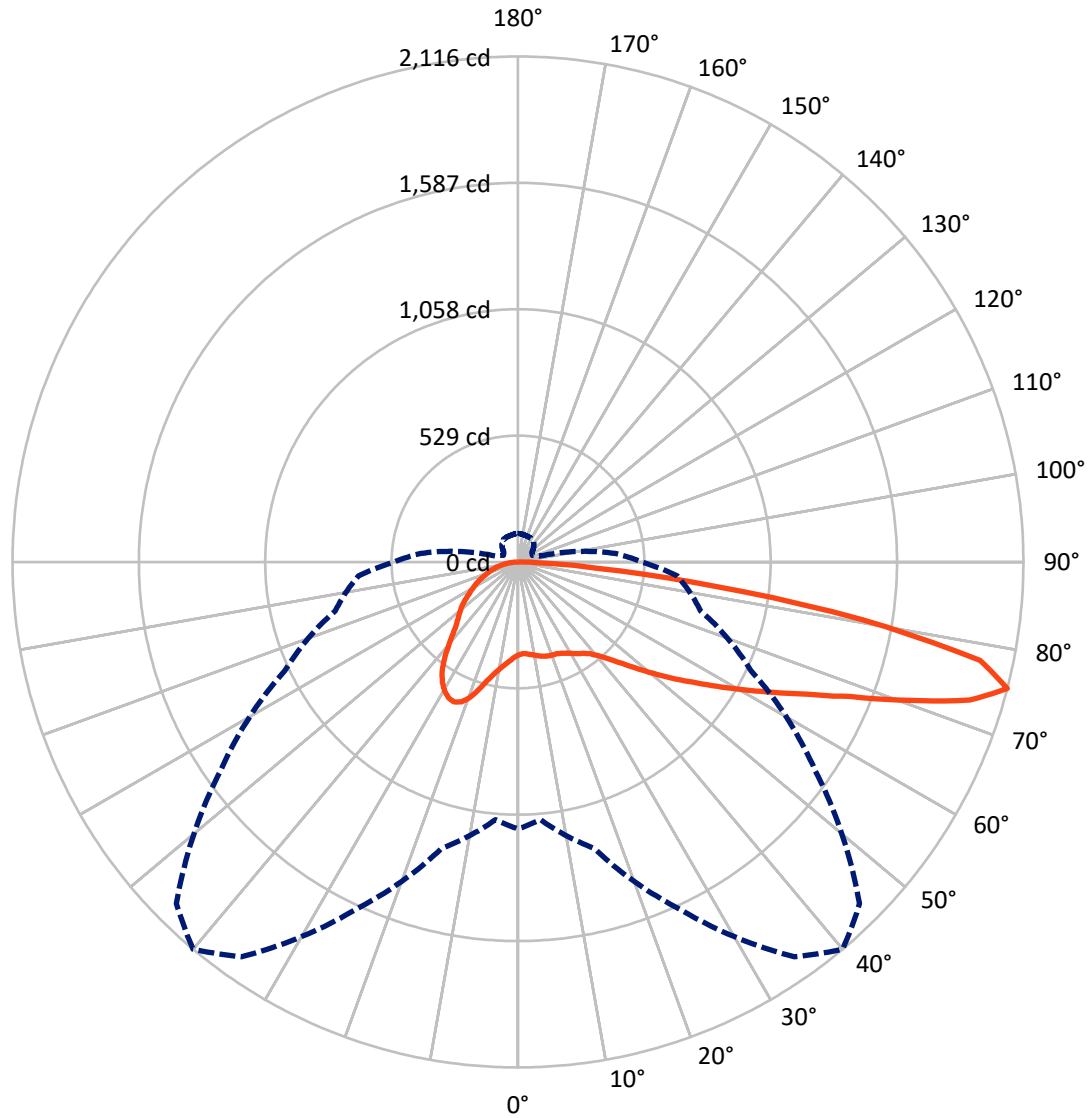
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P939002  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1053.1	0.0	1053.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	2345.9	0.0	2345.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	3399.0	0.0	3399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.8	1.1
10°-20°	130.3	3.8
20°-30°	237.8	7.0
30°-40°	337.3	9.9
40°-50°	455.5	13.4
50°-60°	612.8	18.0
60°-70°	777.7	22.9
70°-80°	705.9	20.8
80°-90°	102.9	3.0
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°	3399.0	100.0
0°-180°	3399.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939002

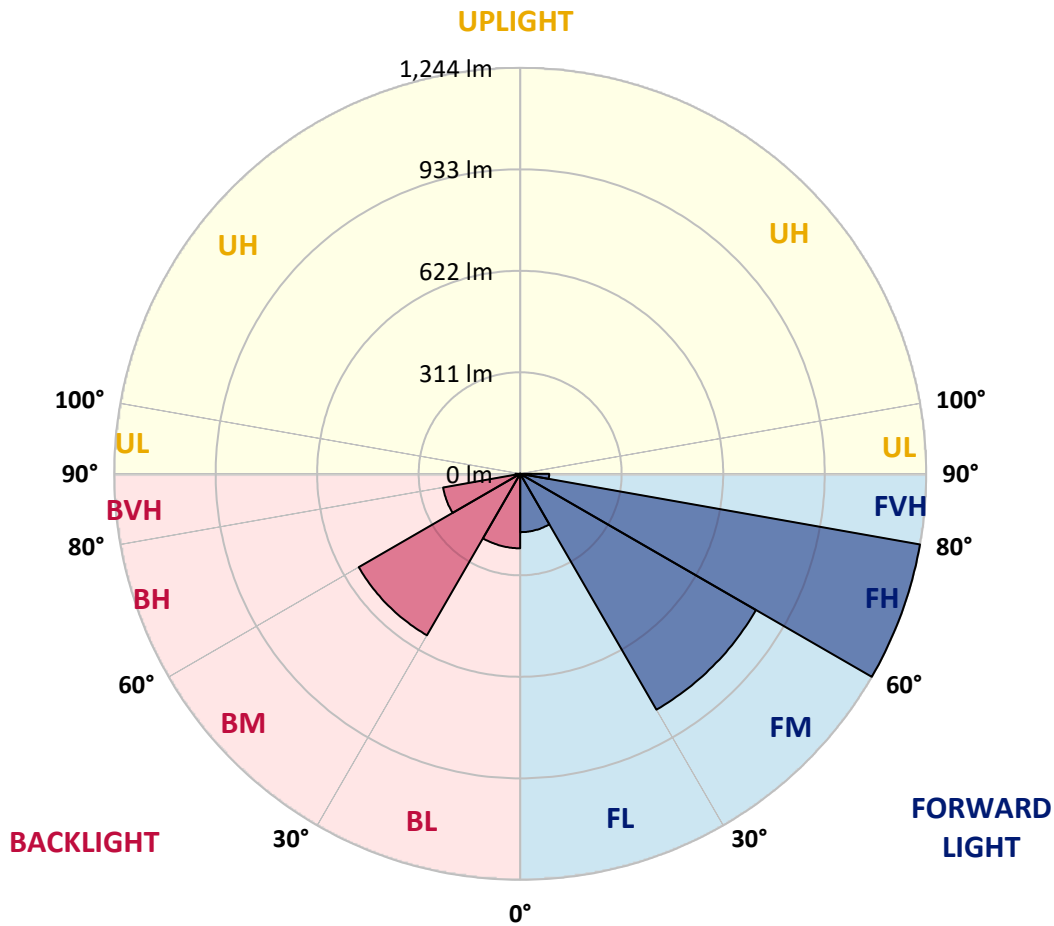
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.8	5.3			
FM (30°-60°)	834.4	24.5			
FH (60°-80°)	1244.0	36.6			G1/1800
FVH (80°-90°)	88.7	2.6			G1/100
BL (0°-30°)	228.1	6.7	B1/500		
BM (30°-60°)	571.2	16.8	B1/1000		
BH (60°-80°)	239.6	7.0	B1/500		G1/500
BVH (80°-90°)	14.2	0.4			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



REPORT NUMBER: P939002

CATALOG NUMBER: GALN-SB1B-927-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	382.7	384.9	384.4	383.6	383.6	383.8	383.6	384.9	386.2	387.4
5°	386.7	388.9	387.8	386.9	386.2	386.0	385.4	385.3	386.0	387.6
7.5°	394.4	396.6	395.0	393.4	391.9	391.2	390.5	389.4	388.9	389.8
10°	403.1	405.3	403.3	400.4	398.1	397.2	396.4	395.4	394.6	395.2
12.5°	411.8	413.9	411.2	407.2	404.2	403.6	402.7	402.4	402.2	402.0
15°	419.9	421.7	418.2	413.6	410.3	409.4	408.5	409.1	410.0	411.0
17.5°	426.2	428.0	422.9	416.8	413.7	413.4	412.8	414.6	417.2	419.9
20°	431.9	433.7	427.3	419.0	415.4	415.4	415.5	419.3	422.9	426.9
22.5°	440.1	441.5	433.6	422.2	417.0	417.3	418.8	422.6	427.1	432.5
25°	452.1	453.2	443.5	428.3	422.4	423.5	424.7	426.5	430.9	437.2
27.5°	471.6	472.5	459.7	439.2	430.1	431.9	433.7	432.5	434.5	439.9
30°	499.0	499.6	483.3	456.1	443.3	444.2	444.6	439.3	435.6	439.9
32.5°	531.5	531.3	512.0	476.7	458.3	457.4	454.3	444.0	435.2	439.0
35°	581.8	579.8	554.9	505.5	475.2	469.6	462.4	449.3	437.0	438.1
37.5°	665.0	658.9	624.5	552.7	500.5	486.2	475.6	457.7	441.0	437.7
40°	759.0	751.2	713.4	617.5	538.3	515.4	498.3	469.8	447.5	439.3
42.5°	870.4	859.4	818.6	693.7	586.3	553.1	527.3	485.1	457.0	444.6
45°	1007.2	992.6	934.9	779.7	646.7	602.5	568.1	508.4	471.6	454.7
47.5°	1145.5	1149.1	1067.1	878.1	719.1	663.4	619.1	543.4	492.9	470.9
50°	1292.4	1294.9	1198.5	987.2	801.3	732.3	676.4	582.5	522.4	494.0
52.5°	1407.1	1407.4	1317.8	1101.3	887.0	808.0	738.2	627.2	556.7	524.6
55°	1478.8	1477.9	1401.5	1209.3	985.4	887.5	806.7	678.0	598.5	560.7
57.5°	1530.9	1528.2	1459.2	1302.2	1090.3	981.4	884.3	735.7	647.9	603.6
60°	1550.8	1549.1	1498.3	1382.4	1200.7	1085.3	973.7	800.3	704.0	654.2
62.5°	1558.3	1561.4	1536.7	1460.1	1318.7	1200.3	1071.9	877.4	767.1	711.6
65°	1585.0	1590.6	1585.5	1561.8	1452.1	1335.0	1202.3	969.2	836.0	773.0
67.5°	1637.8	1643.4	1645.6	1683.4	1615.1	1502.8	1364.9	1083.5	916.5	836.9
70°	1636.6	1634.9	1673.2	1780.2	1819.2	1735.2	1584.1	1224.1	1012.6	889.9
72.5°	1489.6	1476.7	1567.0	1779.2	1989.0	1977.8	1851.8	1405.5	1095.6	896.3
75°	1117.5	1082.9	1242.5	1603.4	2017.3	2115.6	2022.0	1517.9	1075.9	792.0
77.5°	477.9	443.1	631.2	1187.0	1805.5	1977.7	1865.9	1324.3	858.8	523.7
80°	125.1	124.9	190.7	538.1	1227.9	1460.4	1281.2	855.2	490.7	187.1
82.5°	51.7	50.5	70.1	209.3	600.0	819.5	668.8	381.5	177.2	50.7
85°	19.3	19.1	34.1	72.3	211.6	338.0	244.6	97.5	44.2	24.7
87.5°	5.4	5.2	7.4	25.1	51.6	78.2	41.8	16.0	12.4	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939002  
 CATALOG NUMBER: GALN-SB1B-927-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
388.7	0°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
389.4	2.5°	389.9	390.8	392.5	393.7	395.4	397.2	399.7	401.3	402.9	404.0
390.3	5°	391.6	393.5	397.7	401.8	406.7	411.2	416.4	420.2	423.3	424.2
393.5	7.5°	395.2	398.4	405.4	412.5	420.2	427.6	435.2	441.7	446.9	448.9
399.3	10°	401.5	405.8	415.7	425.6	435.9	447.3	457.0	466.4	473.8	476.8
406.2	12.5°	409.4	414.8	427.8	441.5	455.7	471.4	484.0	495.6	504.8	508.9
415.7	15°	419.7	426.7	443.3	461.7	482.6	504.4	520.5	533.3	543.5	548.6
425.6	17.5°	430.9	440.2	461.2	488.9	518.8	547.5	566.3	575.6	586.3	591.1
434.8	20°	441.7	453.2	483.1	523.5	563.4	593.8	609.0	611.5	612.2	612.8
443.5	22.5°	452.9	468.4	510.7	567.2	609.9	631.0	633.1	622.3	607.2	600.1
452.0	25°	465.1	485.7	546.8	615.3	649.9	652.4	635.8	609.5	580.9	567.7
458.8	27.5°	477.0	505.7	590.1	661.3	678.7	656.6	620.9	583.6	548.9	535.1
463.7	30°	488.9	528.6	637.8	701.5	691.9	646.3	597.3	555.6	520.8	506.2
468.0	32.5°	501.0	555.3	692.8	730.5	689.6	624.5	567.9	524.2	493.6	478.3
471.8	35°	514.7	588.1	744.9	746.4	673.9	592.4	529.1	486.8	460.1	447.8
476.3	37.5°	532.5	629.7	790.9	750.3	646.5	545.3	481.0	442.4	420.4	414.8
483.0	40°	554.7	679.8	826.0	744.0	605.9	488.2	428.3	397.5	385.1	386.3
492.0	42.5°	583.6	735.9	850.7	727.8	549.5	429.2	382.2	368.5	374.4	379.5
505.5	45°	621.1	794.1	866.1	700.2	485.7	379.3	355.0	358.2	362.7	363.3
527.3	47.5°	669.0	853.1	876.2	658.6	420.6	344.2	337.7	338.4	337.5	333.7
559.9	50°	728.9	910.4	885.2	603.4	365.2	322.2	313.5	311.0	298.5	286.3
603.4	52.5°	797.0	963.0	889.0	534.9	322.2	303.8	289.7	273.8	250.6	246.8
658.0	55°	872.7	1011.7	879.2	450.7	285.9	280.2	258.9	239.8	237.2	234.0
729.9	57.5°	963.2	1064.2	859.4	356.8	248.8	252.6	231.8	234.0	229.5	224.4
822.4	60°	1062.2	1118.4	824.6	271.1	210.4	218.1	224.8	224.6	223.4	219.2
920.0	62.5°	1151.3	1154.1	756.1	207.7	176.7	191.5	209.7	209.5	208.4	206.1
1021.8	65°	1204.3	1148.7	641.8	163.5	148.9	169.5	189.1	190.6	190.7	190.6
1098.4	67.5°	1194.9	1085.5	484.9	130.2	126.0	147.1	168.7	170.7	172.2	172.5
1108.2	70°	1088.9	946.5	316.2	103.8	105.6	127.5	149.5	151.4	152.7	154.1
961.6	72.5°	848.8	695.9	181.0	84.0	87.8	110.5	130.3	132.7	133.4	136.1
669.2	75°	517.2	409.2	97.7	66.2	72.1	94.5	111.4	114.1	115.4	118.6
328.6	77.5°	245.9	177.2	55.7	51.6	58.0	77.2	94.1	97.2	93.7	95.5
90.7	80°	83.1	65.8	35.2	39.3	44.3	60.2	75.4	78.4	71.2	70.8
30.1	82.5°	29.0	26.7	22.4	26.1	28.7	43.1	57.0	60.9	53.0	52.8
13.5	85°	11.4	10.8	12.4	14.2	17.1	26.5	37.5	39.5	32.6	26.3
4.0	87.5°	2.3	2.5	3.1	3.2	5.2	9.2	13.5	16.6	13.2	11.2
0.0	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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<u>180°</u>
388.7
403.3
424.6
449.1
477.0
508.9
548.2
591.0
614.2
602.1
569.7
536.7
507.8
480.3
450.5
418.8
390.7
384.2
366.9
336.6
287.9
248.1
234.5
223.5
217.8
205.2
190.6
172.9
154.9
137.2
<i>119.0</i>
94.1
70.1
50.3
26.0
10.3
0.0

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