

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: P938787

Luminaire Tested: **GALN-SB1A-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3905 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

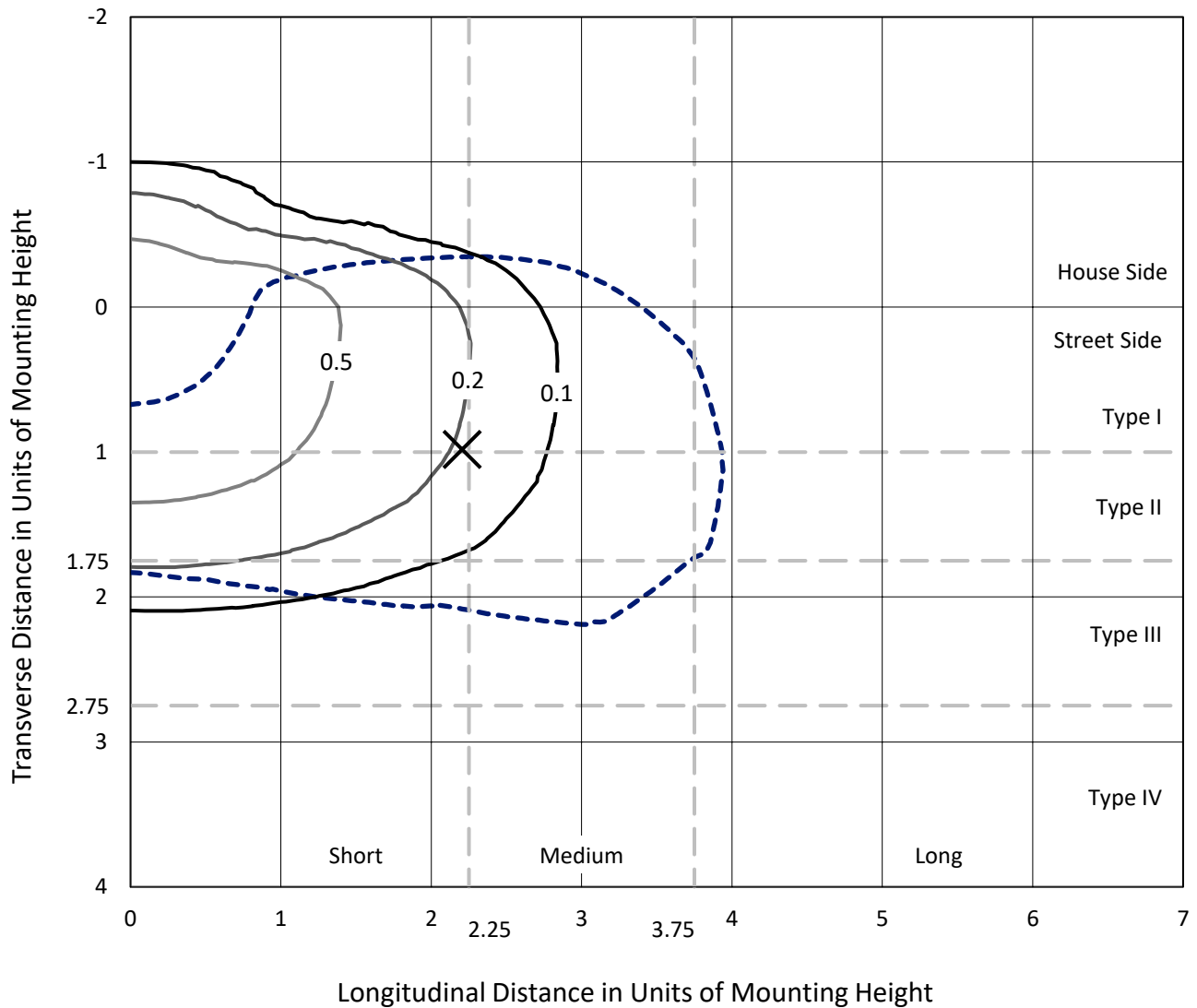
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

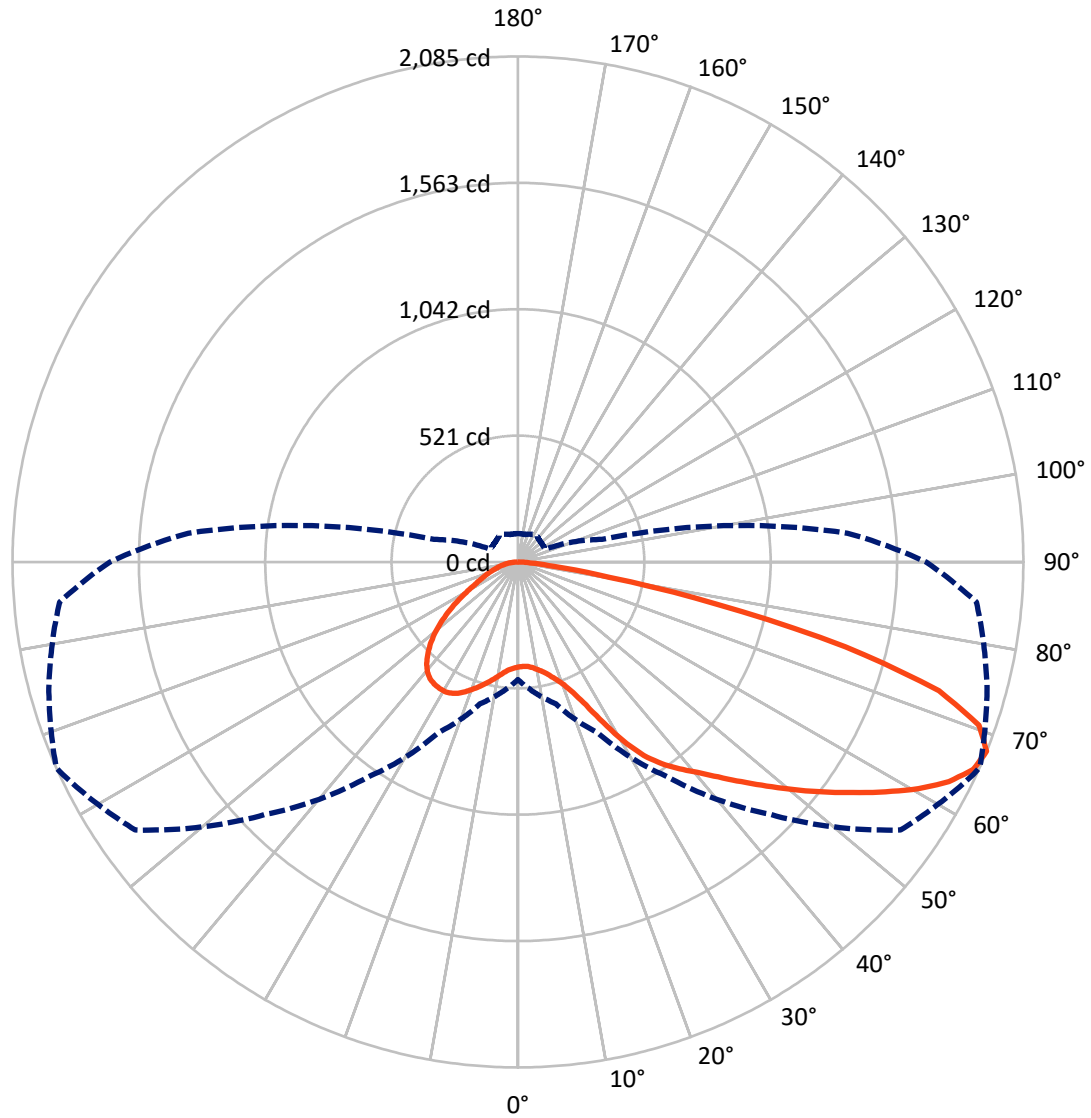
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	971.0	0.0	971.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	2934.0	0.0	2934.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	3905.0	0.0	3905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.9	1.1
10°-20°	141.9	3.6
20°-30°	273.5	7.0
30°-40°	479.5	12.3
40°-50°	712.8	18.3
50°-60°	903.6	23.1
60°-70°	884.1	22.6
70°-80°	421.7	10.8
80°-90°	45.1	1.2
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°	3905.0	100.0
0°-180°	3905.0	100.0

**Coefficient of Utilization**



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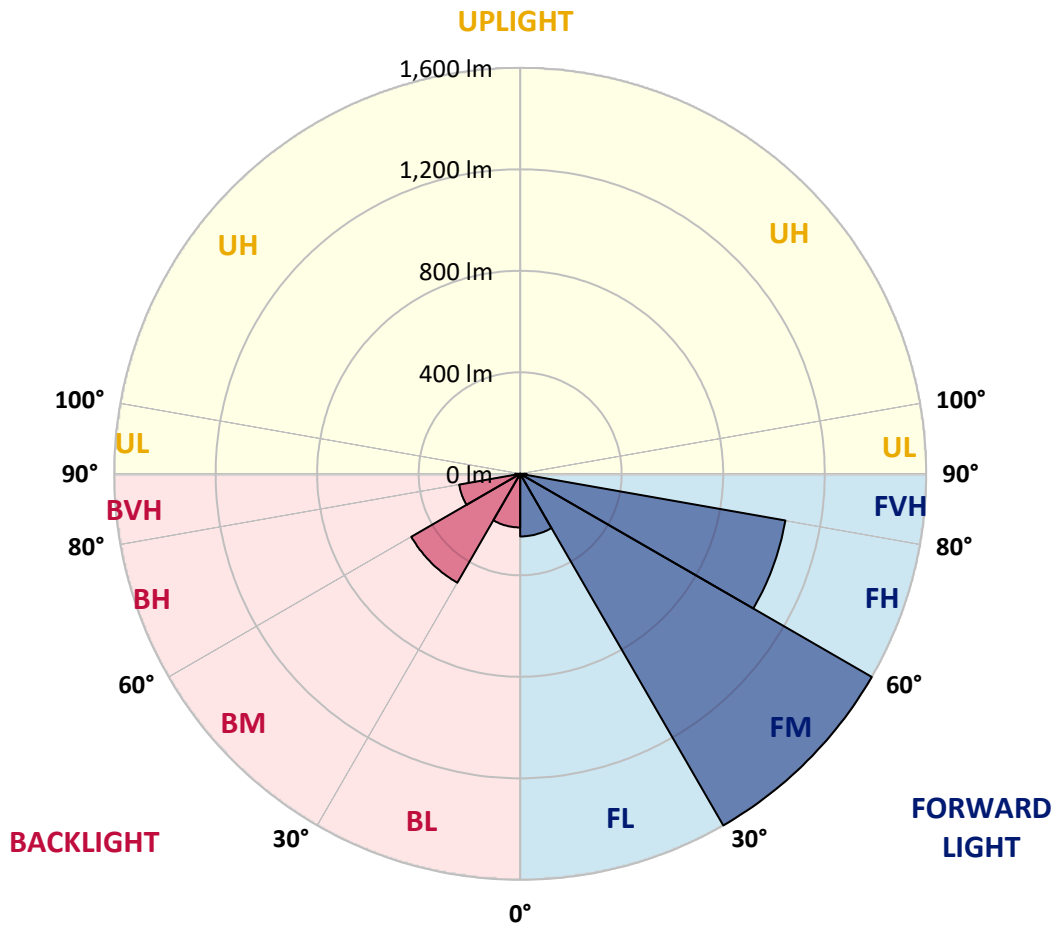
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.8	6.3			
FM (30°-60°)	1600.2	41.0			
FH (60°-80°)	1061.5	27.2			G1/1800
FVH (80°-90°)	25.6	0.7			G1/100
BL (0°-30°)	211.5	5.4	B1/500		
BM (30°-60°)	495.6	12.7	B1/1000		
BH (60°-80°)	244.3	6.3	B1/500		G1/500
BVH (80°-90°)	19.5	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1
2.5°	428.6	431.1	430.4	429.4	429.2	429.6	430.2	430.9	430.7	431.7
5°	427.4	429.8	429.6	429.6	430.4	432.1	433.1	434.1	433.1	434.3
7.5°	428.2	430.0	430.9	431.7	433.7	436.8	439.3	441.5	440.3	441.7
10°	438.7	440.1	440.9	440.9	442.3	445.8	448.3	452.4	451.4	453.6
12.5°	457.7	459.2	459.2	458.4	459.4	461.6	462.5	467.0	465.1	468.8
15°	481.1	484.0	481.7	480.3	480.7	483.0	482.8	486.3	484.4	487.5
17.5°	507.0	510.7	507.0	506.8	506.0	508.4	508.6	511.7	508.4	510.7
20°	537.5	542.7	539.6	540.6	538.8	539.8	540.8	545.3	540.2	541.9
22.5°	580.6	586.8	583.5	587.4	586.2	585.4	585.1	593.1	585.1	585.8
25°	643.4	650.8	645.1	650.4	650.4	653.1	656.1	666.4	653.1	649.2
27.5°	736.2	743.5	732.3	735.5	734.5	741.1	737.8	763.2	748.9	742.5
30°	847.8	860.9	839.6	838.7	837.7	848.2	852.9	869.7	855.2	848.8
32.5°	968.4	982.2	956.7	949.3	945.4	951.8	947.9	961.4	951.4	941.5
35°	1096.0	1109.6	1085.4	1071.0	1055.4	1042.1	1028.1	1031.6	1022.2	1007.2
37.5°	1216.7	1241.5	1215.8	1200.5	1171.7	1145.7	1106.7	1090.5	1081.7	1067.9
40°	1339.6	1353.7	1334.2	1321.1	1289.9	1249.1	1186.7	1152.4	1140.5	1127.2
42.5°	1430.0	1443.6	1433.1	1424.1	1399.7	1352.3	1271.7	1228.8	1211.5	1196.6
45°	1501.9	1511.9	1505.3	1508.6	1498.2	1452.2	1359.7	1310.6	1292.8	1274.5
47.5°	1530.8	1541.5	1551.9	1571.4	1589.3	1555.4	1454.3	1399.3	1380.4	1361.7
50°	1527.5	1538.4	1568.7	1610.2	1665.6	1654.3	1554.0	1493.6	1476.2	1454.9
52.5°	1501.2	1513.5	1552.5	1621.5	1709.7	1728.4	1655.5	1591.1	1574.7	1549.2
55°	1432.3	1439.7	1498.2	1595.8	1720.2	1780.1	1755.0	1694.9	1678.5	1643.0
57.5°	1304.5	1315.1	1400.3	1526.7	1693.9	1815.1	1842.4	1804.1	1788.3	1737.2
60°	1137.7	1154.7	1252.2	1410.6	1627.0	1814.9	1921.8	1911.4	1898.2	1829.9
62.5°	948.9	968.6	1062.4	1246.4	1510.1	1763.4	1971.5	2001.2	1994.5	1915.5
65°	728.8	742.3	835.7	1034.1	1328.1	1652.9	1977.2	2062.6	2063.8	1980.5
67.5°	485.2	524.2	605.3	776.0	1084.3	1472.1	1926.8	2072.6	2084.5	2002.9
70°	236.8	288.1	367.5	504.3	776.0	1194.9	1794.8	1990.2	2016.6	1937.6
72.5°	98.3	114.9	158.2	248.9	445.4	806.3	1529.8	1766.5	1815.6	1716.9
75°	66.3	71.8	90.5	127.6	202.9	397.6	1103.2	1317.2	1396.2	1296.7
77.5°	51.1	54.6	65.9	89.2	120.6	150.4	590.5	793.8	834.6	772.7
80°	40.2	42.9	49.2	65.0	85.6	80.4	201.3	359.7	383.3	321.5
82.5°	34.9	35.9	35.3	44.1	56.8	47.0	66.1	132.7	146.5	106.3
85°	25.2	28.1	29.3	27.3	30.2	23.8	27.1	47.0	51.7	46.2
87.5°	10.3	15.2	18.7	17.6	11.1	6.8	8.4	13.7	15.8	17.2
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°
433.1	0°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1
433.3	2.5°	433.5	435.0	436.0	437.2	438.0	439.3	441.7	443.2	443.4	444.4
436.6	5°	437.4	439.5	441.7	445.0	448.7	451.8	456.5	459.8	461.0	462.0
444.6	7.5°	445.8	448.7	452.8	458.6	463.9	468.0	473.7	477.6	481.5	483.0
457.3	10°	458.4	462.5	468.4	476.2	481.9	487.3	493.2	496.5	500.4	502.1
472.5	12.5°	473.9	478.3	486.1	496.9	502.3	506.0	508.0	507.2	508.0	509.4
490.8	15°	491.8	496.5	505.3	517.0	520.7	517.4	512.9	508.8	508.2	508.6
512.9	17.5°	512.9	516.4	526.7	536.5	533.9	520.3	510.5	503.9	500.6	499.6
541.2	20°	542.5	542.5	550.9	557.0	539.2	516.2	500.8	490.2	483.4	480.5
579.8	22.5°	578.4	575.1	580.4	576.1	538.2	504.7	483.4	464.9	454.7	450.6
633.8	25°	623.9	620.0	618.6	591.9	530.8	486.5	451.8	429.4	420.4	418.1
711.5	27.5°	692.7	682.8	664.1	600.5	517.2	457.7	414.9	394.1	389.0	389.2
811.5	30°	784.2	764.5	718.7	602.0	495.1	417.1	377.1	362.3	359.9	360.9
895.4	32.5°	868.9	850.2	774.5	595.4	461.0	377.3	343.3	333.4	329.7	330.9
959.4	35°	935.4	930.2	826.2	586.2	419.2	340.0	312.9	304.5	297.3	295.7
1019.7	37.5°	998.2	996.1	865.0	573.2	377.7	313.5	288.5	277.4	266.9	261.2
1086.4	40°	1067.1	1065.0	890.4	553.3	341.0	290.5	266.5	252.0	239.0	228.6
1161.9	42.5°	1144.6	1132.5	902.5	524.8	309.8	271.0	248.7	229.0	211.9	202.3
1247.2	45°	1229.4	1202.1	902.3	488.5	283.5	253.2	229.6	201.7	185.9	176.9
1334.8	47.5°	1319.2	1268.6	891.3	448.3	258.1	233.5	200.0	178.7	168.2	162.7
1430.0	50°	1412.0	1330.7	872.4	402.1	232.0	211.1	181.6	167.0	159.0	153.9
1524.4	52.5°	1499.2	1387.2	849.6	349.8	205.6	189.4	173.4	162.1	153.7	147.9
1615.9	55°	1580.2	1435.8	817.4	296.3	184.0	174.8	169.5	160.0	150.4	143.6
1708.9	57.5°	1652.2	1467.4	761.8	246.0	168.7	164.8	165.4	156.5	145.5	139.7
1800.4	60°	1712.2	1490.6	679.5	199.4	156.1	154.9	159.0	150.0	137.1	130.5
1877.7	62.5°	1748.1	1490.2	578.6	163.3	145.5	145.9	150.6	141.8	128.6	122.5
1918.1	65°	1745.0	1453.6	467.8	139.7	135.2	135.6	141.8	132.7	121.7	118.0
1897.8	67.5°	1683.2	1364.6	358.8	124.3	123.9	125.8	133.0	126.6	117.4	116.9
1776.8	70°	1516.0	1179.7	258.5	112.0	112.2	114.9	124.3	122.7	115.1	115.9
1493.9	72.5°	1215.6	899.5	173.6	99.1	99.3	103.6	116.1	119.6	112.8	123.7
1059.9	75°	809.6	560.9	111.6	85.4	85.6	91.1	108.9	113.7	106.7	123.3
551.5	77.5°	389.0	252.2	80.8	71.8	71.8	76.9	94.2	101.8	90.9	95.8
177.3	80°	134.4	94.8	63.6	57.9	56.6	60.1	79.4	88.2	78.4	72.2
57.9	82.5°	52.9	49.2	51.1	44.9	40.8	43.1	61.8	72.8	57.7	52.1
32.6	85°	30.4	32.0	36.1	29.7	23.6	26.5	45.3	52.3	43.5	38.4
10.7	87.5°	8.2	11.3	16.6	15.4	10.7	11.3	21.5	28.9	25.0	19.3
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>
433.1
444.2
461.8
483.2
502.9
509.9
510.1
501.0
479.9
449.9
418.5
389.8
364.4
332.6
296.9
261.4
229.6
202.9
176.4
161.5
152.0
145.5
141.0
136.0
127.6
120.6
117.8
<i>117.6</i>
115.7
125.4
124.3
87.8
67.7
51.9
39.2
19.9
0.0

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