

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: P945039

Luminaire Tested: **GALN-SB1A-835-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-835-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4154 lumens  
Efficiency: N/A  
Efficacy: 134.4 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

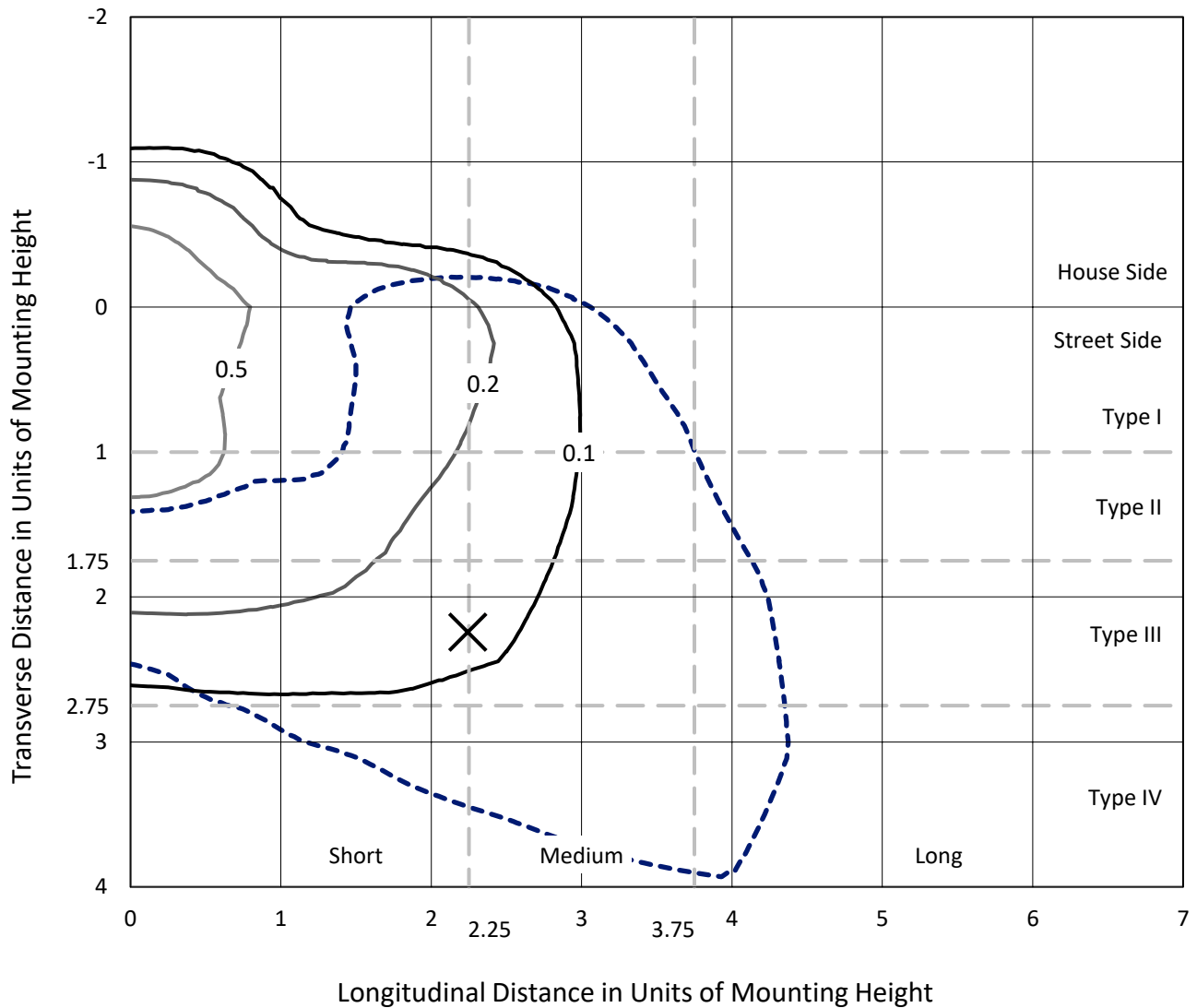
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

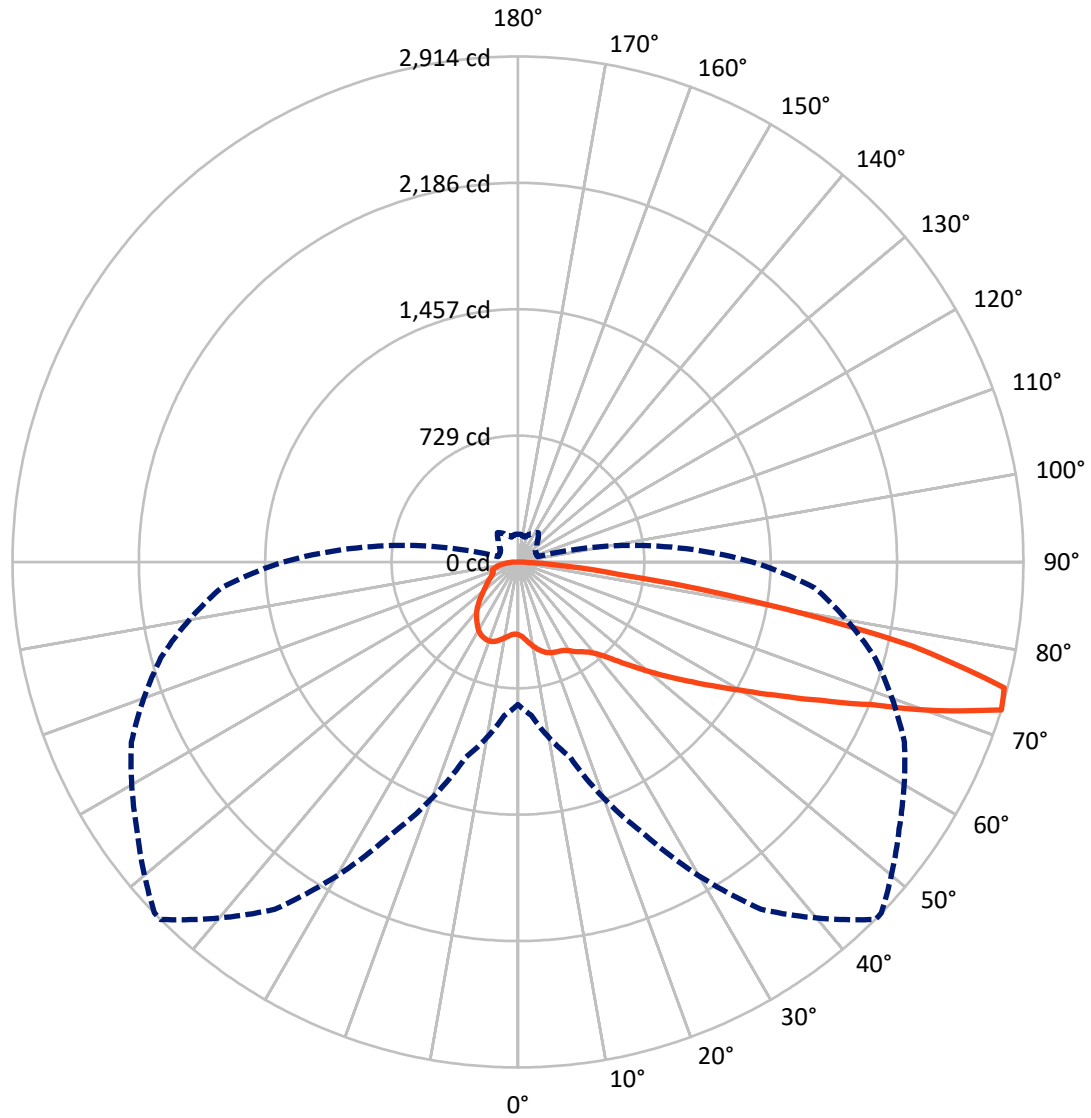
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	939.1	0.0	939.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	3214.9	0.0	3214.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	4154.0	0.0	4154.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.0
10°-20°	142.2	3.4
20°-30°	247.4	6.0
30°-40°	354.6	8.5
40°-50°	499.3	12.0
50°-60°	764.8	18.4
60°-70°	1108.0	26.7
70°-80°	884.8	21.3
80°-90°	110.2	2.7
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°	4154.0	100.0
0°-180°	4154.0	100.0

**Coefficient of Utilization**



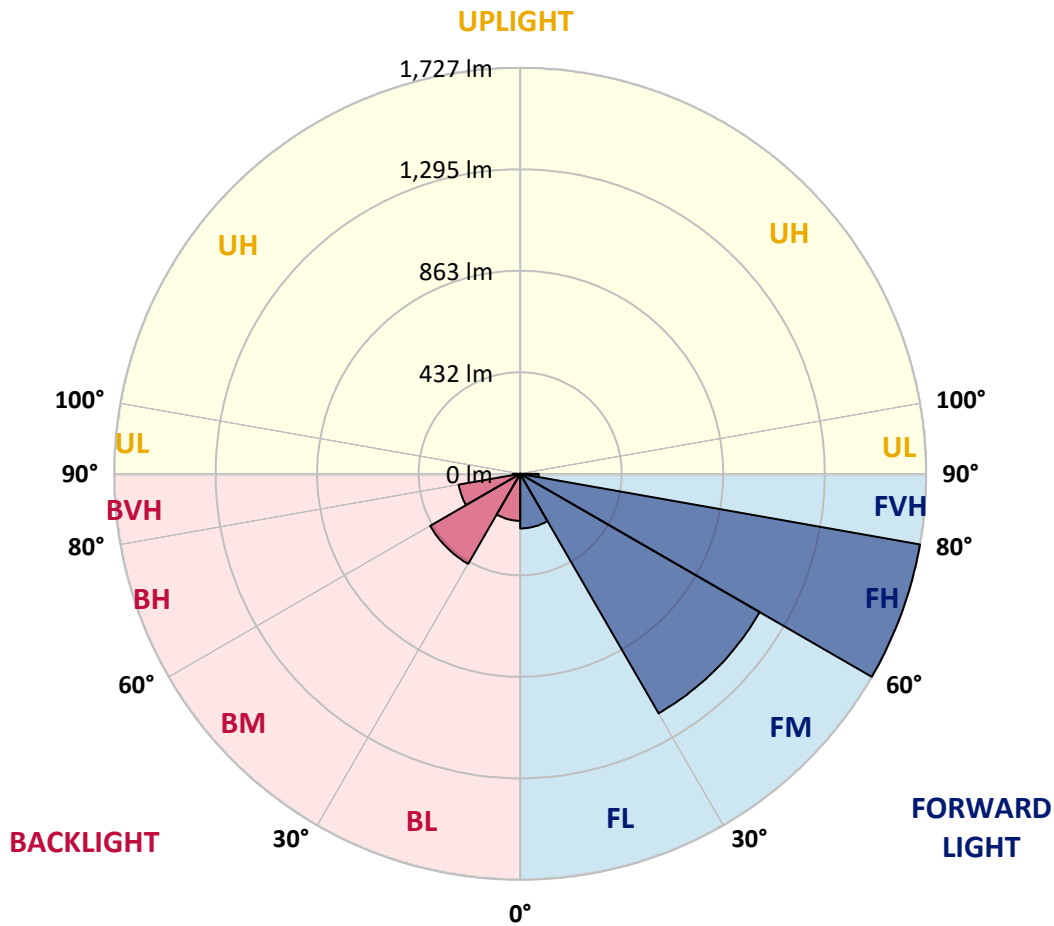
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.3	5.6			
FM (30°-60°)	1176.6	28.3			
FH (60°-80°)	1726.9	41.6			G1/1800
FVH (80°-90°)	79.1	1.9			G1/100
BL (0°-30°)	199.9	4.8	B1/500		
BM (30°-60°)	442.2	10.6	B1/1000		
BH (60°-80°)	265.8	6.4	B1/500		G1/500
BVH (80°-90°)	31.1	0.7			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°	45°	46°	55°	65°	75°
0°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1
2.5°	435.5	438.3	435.7	433.3	432.2	429.3	429.1	427.4	426.3	423.2
5°	465.9	469.6	465.2	460.4	456.0	449.0	448.2	443.1	437.4	430.9
7.5°	500.2	503.5	498.5	491.3	483.6	472.0	471.8	462.6	453.6	442.5
10°	530.2	534.6	527.8	518.0	508.3	495.2	493.7	483.2	471.8	457.4
12.5°	556.7	559.8	553.2	541.2	530.0	516.9	514.9	503.3	490.6	474.2
15°	577.7	581.6	572.9	560.0	548.2	535.3	533.5	523.0	510.3	493.0
17.5°	591.5	594.8	585.8	571.4	560.0	549.3	547.9	539.2	528.0	510.5
20°	596.7	600.2	590.8	576.2	565.7	557.4	556.7	550.4	542.7	526.7
22.5°	602.0	605.3	593.0	577.7	568.5	563.3	563.0	558.9	555.8	542.7
25°	623.2	624.1	607.7	585.6	572.5	567.9	567.6	567.4	568.7	558.5
27.5°	641.6	641.4	627.4	606.6	586.2	576.6	576.4	578.6	582.7	574.2
30°	668.5	666.1	649.5	627.8	609.2	594.3	593.0	591.1	594.3	587.6
32.5°	725.6	718.0	691.1	652.5	628.3	616.9	615.1	602.9	604.2	600.0
35°	807.5	797.4	761.5	699.4	651.9	635.7	634.8	619.3	616.7	612.9
37.5°	904.9	892.4	850.6	767.2	692.6	657.6	656.3	642.3	631.5	627.6
40°	1002.7	986.9	952.3	849.9	752.6	694.1	690.0	668.7	656.5	649.9
42.5°	1097.6	1084.5	1055.0	942.7	826.5	747.5	738.3	702.0	692.8	686.7
45°	1181.7	1169.9	1148.2	1041.8	913.2	820.2	811.2	751.9	749.1	749.1
47.5°	1250.0	1247.3	1224.3	1142.9	1015.4	902.9	887.4	821.3	828.9	840.7
50°	1325.7	1318.4	1293.9	1242.5	1135.5	997.6	984.9	906.4	935.1	967.4
52.5°	1395.3	1399.2	1371.8	1346.2	1271.2	1103.3	1081.0	1006.8	1068.8	1122.4
55°	1466.8	1467.0	1459.4	1455.9	1413.4	1220.2	1195.7	1127.6	1226.1	1292.6
57.5°	1534.0	1534.4	1545.8	1576.7	1578.4	1355.0	1327.2	1276.0	1400.9	1468.8
60°	1594.0	1597.0	1628.1	1700.3	1723.5	1509.5	1483.2	1451.3	1581.7	1650.0
62.5°	1614.1	1625.2	1694.4	1797.0	1866.8	1699.0	1673.2	1654.1	1771.6	1835.1
65°	1579.9	1605.5	1739.3	1876.9	2014.3	1924.2	1898.6	1877.8	1969.0	2028.8
67.5°	1496.1	1529.2	1736.6	1960.7	2193.3	2195.1	2171.2	2122.4	2180.6	2203.6
70°	1275.3	1324.8	1583.7	1992.0	2398.8	2565.6	2542.6	2417.0	2391.8	2280.6
72.5°	821.7	888.2	1166.1	1734.4	2444.5	2914.1	2912.8	2682.8	2458.5	2131.0
75°	299.8	340.5	541.8	1088.7	2052.0	2896.4	2905.0	2637.3	2244.3	1646.0
77.5°	109.2	119.5	176.8	418.4	1262.0	2324.0	2341.7	2108.4	1597.5	826.1
80°	57.3	63.0	90.6	162.4	540.7	1380.2	1407.9	1253.0	750.8	248.8
82.5°	31.7	34.4	50.8	88.2	243.6	590.2	606.8	495.0	264.1	105.5
85°	17.1	18.2	23.9	48.1	119.0	204.6	209.2	147.9	105.3	61.9
87.5°	5.0	6.1	7.9	15.3	46.6	46.0	47.0	29.3	41.6	31.3
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°
419.1	0°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1
422.3	2.5°	421.0	420.4	418.0	416.9	415.6	415.3	416.4	416.7	416.9	417.1
427.2	5°	425.0	422.8	420.6	419.3	419.7	419.9	422.1	423.7	424.7	425.6
436.1	7.5°	432.6	430.9	427.2	426.9	427.6	429.6	432.4	435.9	437.9	439.4
447.7	10°	444.0	440.7	436.3	437.0	438.3	441.2	447.1	449.9	453.2	456.0
461.9	12.5°	455.6	452.8	447.7	448.2	450.4	455.4	461.1	464.6	466.8	469.0
477.3	15°	470.7	465.7	460.2	460.2	464.1	469.6	472.2	475.1	476.4	478.8
493.7	17.5°	486.2	479.7	472.5	472.0	476.8	479.5	481.0	481.4	481.9	484.5
509.7	20°	501.8	494.6	484.3	483.4	484.5	484.0	483.8	483.4	484.0	487.3
526.1	22.5°	517.1	508.8	494.6	490.6	487.6	483.4	483.2	483.0	483.4	486.7
543.8	25°	535.0	525.0	505.9	494.1	483.8	478.1	478.8	479.0	479.5	482.1
562.2	27.5°	554.5	543.4	516.4	493.0	474.4	470.5	469.4	470.0	471.6	475.7
580.6	30°	574.0	560.9	526.1	488.6	462.6	457.1	453.6	455.2	460.0	464.1
596.5	32.5°	591.7	578.6	533.7	479.0	447.5	439.0	434.4	436.3	441.2	442.7
614.3	35°	612.5	597.6	537.0	463.7	431.1	418.0	411.8	409.0	411.4	409.9
635.0	37.5°	635.7	620.2	536.6	443.6	411.8	396.7	388.2	377.5	372.4	367.2
665.7	40°	670.1	647.7	531.3	419.3	388.0	374.2	358.9	340.7	329.3	319.1
715.1	42.5°	716.9	686.0	521.7	392.6	361.1	348.2	327.4	306.1	288.2	271.1
790.2	45°	786.7	736.1	509.7	364.1	332.0	319.3	296.7	272.9	252.5	230.6
896.8	47.5°	887.4	803.5	498.3	331.7	301.3	289.7	269.4	247.3	223.2	202.0
1050.8	50°	1025.7	900.3	487.8	300.2	271.1	262.4	246.2	223.6	199.4	182.3
1231.4	52.5°	1201.6	1031.8	483.4	269.8	242.9	239.6	226.7	205.7	182.7	168.3
1441.9	55°	1403.6	1189.1	483.4	240.7	218.2	219.3	210.3	190.8	170.9	158.0
1658.9	57.5°	1609.7	1348.4	474.6	213.8	197.2	201.8	196.1	179.0	161.1	147.7
1887.2	60°	1799.7	1481.9	439.2	189.3	178.6	185.8	182.1	167.4	145.5	134.4
2078.0	62.5°	1945.6	1557.2	370.9	169.8	163.2	171.6	169.6	152.1	142.7	138.1
2234.7	65°	2018.7	1544.9	283.6	152.5	150.3	163.2	159.1	158.4	151.0	145.7
2285.7	67.5°	1973.8	1439.5	205.7	139.8	142.9	155.6	171.6	174.2	160.4	150.1
2142.1	70°	1777.1	1248.6	153.2	127.8	133.5	155.8	195.6	182.3	157.3	145.3
1718.0	72.5°	1351.9	931.1	118.8	115.1	121.2	156.9	206.4	178.6	148.6	160.6
1070.3	75°	773.1	511.2	95.4	99.6	105.9	146.6	200.9	168.9	141.8	147.5
424.1	77.5°	294.8	196.5	78.8	84.2	85.1	128.0	192.1	168.3	135.0	131.7
127.1	80°	102.2	76.8	65.2	67.0	65.9	113.8	184.3	146.4	110.5	98.9
52.5	82.5°	41.8	38.3	51.6	49.5	46.8	88.4	148.8	119.7	90.4	79.9
25.4	85°	18.2	24.3	34.1	30.0	27.1	61.3	119.3	101.3	76.4	65.9
8.3	87.5°	3.7	9.2	14.4	13.6	14.0	40.9	84.7	72.0	54.1	40.5
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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180°  
419.1  
418.0  
426.1  
439.8  
455.4  
469.8  
479.7  
485.4  
488.6  
488.9  
485.6  
479.9  
468.7  
448.2  
414.7  
370.5  
319.7  
269.6  
228.0  
199.6  
181.2  
167.2  
156.7  
145.5  
132.6  
136.5  
144.0  
148.4  
143.3  
*159.3*  
147.5  
120.1  
95.6  
79.0  
65.6  
31.7  
0.0

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