

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: P945396

Luminaire Tested: **GALN-SB1B-835-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945396  
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-SB1B-835-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5215 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

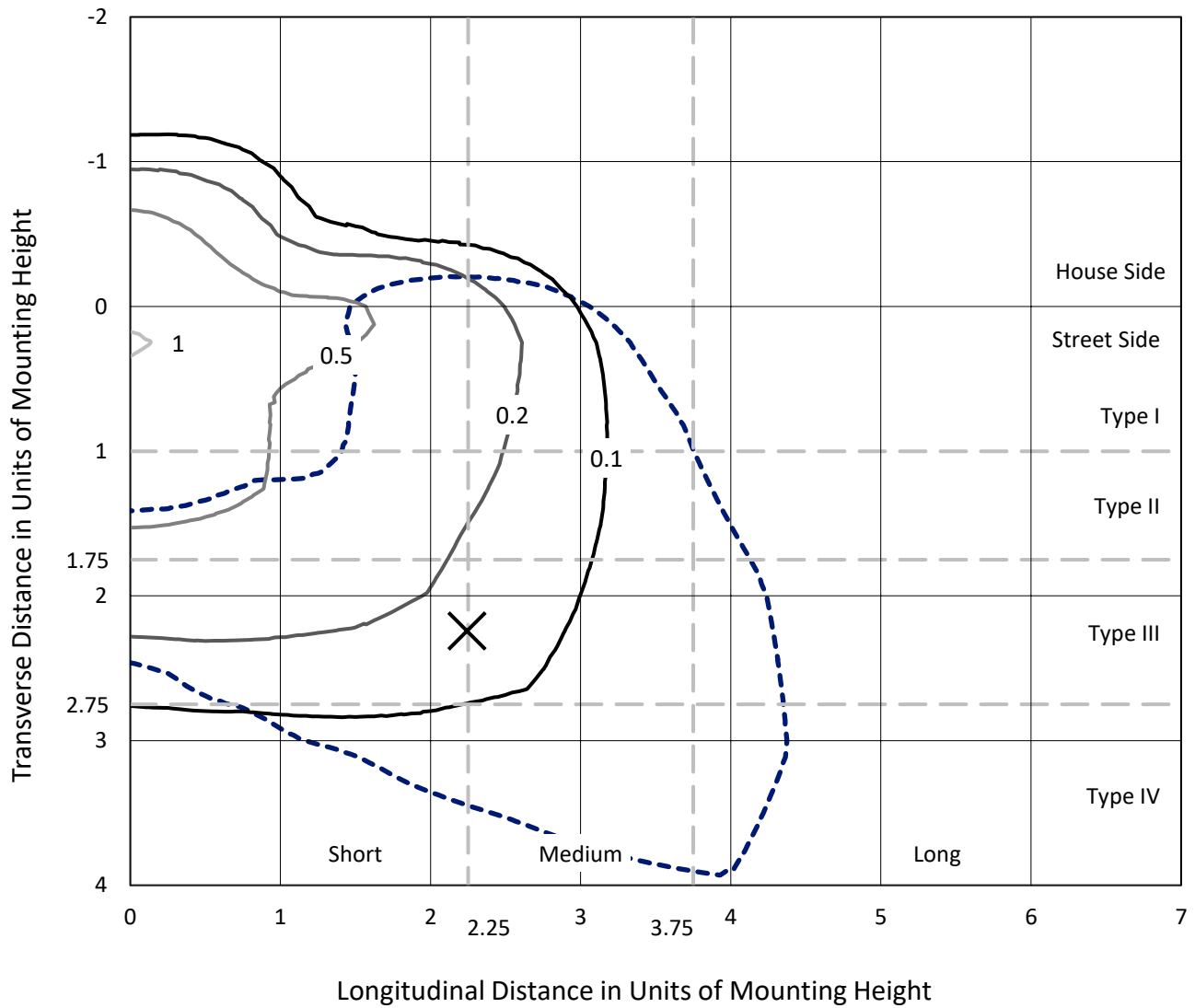
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

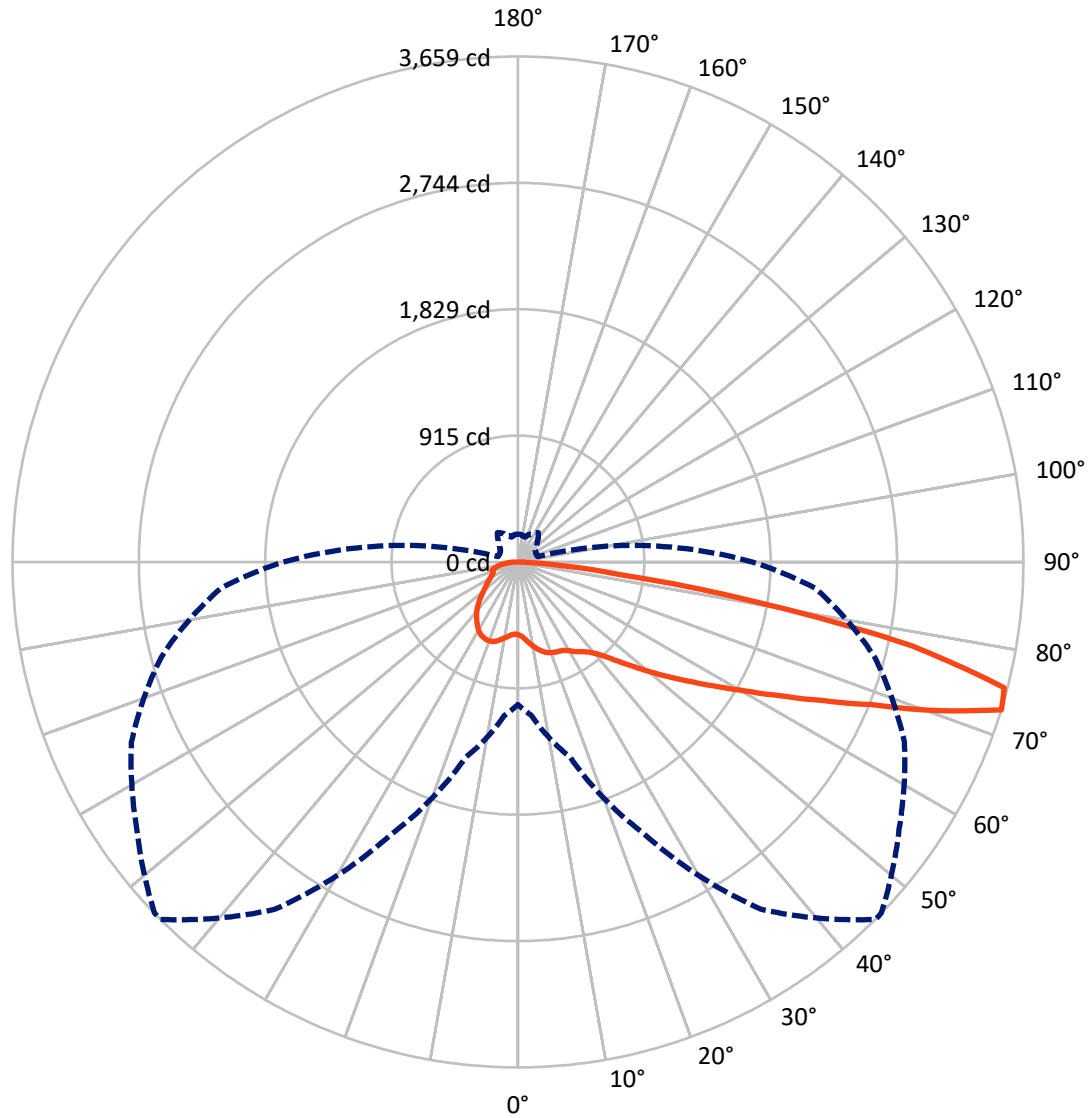
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	1178.9	0.0	1178.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4036.1	0.0	4036.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5215.0	0.0	5215.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.0
10°-20°	178.5	3.4
20°-30°	310.6	6.0
30°-40°	445.2	8.5
40°-50°	626.9	12.0
50°-60°	960.2	18.4
60°-70°	1391.0	26.7
70°-80°	1110.8	21.3
80°-90°	138.3	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°	5215.0	100.0
0°-180°	5215.0	100.0



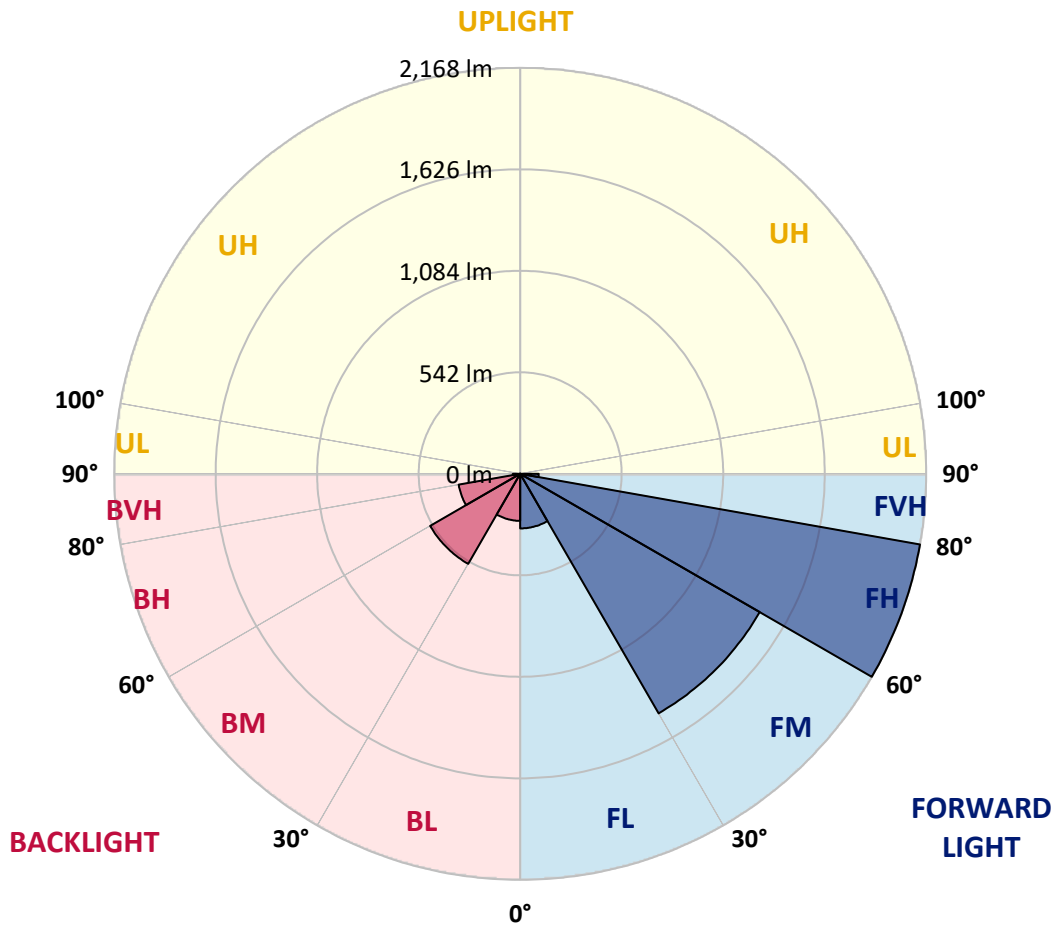
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	5.6			
FM (30°-60°)	1477.2	28.3			
FH (60°-80°)	2168.0	41.6			G2/5000
FVH (80°-90°)	99.2	1.9			G1/100
BL (0°-30°)	251.0	4.8	B1/500		
BM (30°-60°)	555.1	10.6	B1/1000		
BH (60°-80°)	333.7	6.4	B1/500		G1/500
BVH (80°-90°)	39.1	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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1
2.5°	546.7	550.3	547.0	543.9	542.6	539.0	538.7	536.5	535.2	531.3
5°	584.9	589.6	584.1	578.0	572.5	563.7	562.6	556.3	549.2	540.9
7.5°	628.0	632.1	625.8	616.8	607.1	592.6	592.3	580.8	569.5	555.5
10°	665.7	671.1	662.6	650.3	638.2	621.7	619.8	606.6	592.3	574.2
12.5°	698.9	702.7	694.5	679.4	665.4	648.9	646.4	631.9	615.9	595.3
15°	725.3	730.2	719.2	703.0	688.2	672.0	669.8	656.6	640.7	618.9
17.5°	742.6	746.7	735.4	717.3	703.0	689.6	687.9	676.9	662.9	640.9
20°	749.2	753.6	741.7	723.3	710.2	699.7	698.9	690.9	681.3	661.3
22.5°	755.8	759.9	744.5	725.3	713.7	707.1	706.9	701.6	697.8	681.3
25°	782.4	783.5	762.9	735.2	718.7	712.9	712.6	712.4	714.0	701.1
27.5°	805.5	805.2	787.6	761.5	736.0	723.9	723.6	726.4	731.6	720.9
30°	839.3	836.3	815.4	788.2	764.8	746.1	744.5	742.0	746.1	737.6
32.5°	911.0	901.4	867.6	819.2	788.7	774.4	772.2	756.9	758.5	753.3
35°	1013.7	1001.1	956.0	878.0	818.4	798.1	797.0	777.5	774.2	769.5
37.5°	1136.0	1120.3	1067.8	963.2	869.5	825.5	823.9	806.3	792.8	787.9
40°	1258.8	1239.0	1195.6	1067.0	944.8	871.4	866.2	839.5	824.2	815.9
42.5°	1378.0	1361.5	1324.4	1183.5	1037.6	938.4	926.9	881.3	869.8	862.1
45°	1483.5	1468.7	1441.5	1307.9	1146.4	1029.7	1018.4	943.9	940.4	940.4
47.5°	1569.2	1565.9	1537.1	1434.9	1274.7	1133.5	1114.0	1031.0	1040.6	1055.5
50°	1664.3	1655.2	1624.4	1559.9	1425.5	1252.5	1236.5	1137.9	1173.9	1214.5
52.5°	1751.6	1756.6	1722.2	1690.1	1595.9	1385.1	1357.1	1264.0	1341.7	1409.0
55°	1841.5	1841.7	1832.1	1827.7	1774.4	1531.8	1501.1	1415.6	1539.3	1622.8
57.5°	1925.8	1926.3	1940.6	1979.4	1981.6	1701.1	1666.2	1601.9	1758.8	1843.9
60°	2001.1	2004.9	2043.9	2134.6	2163.7	1895.0	1862.1	1822.0	1985.7	2071.4
62.5°	2026.3	2040.4	2127.2	2256.0	2343.7	2132.9	2100.5	2076.6	2224.1	2303.8
65°	1983.5	2015.6	2183.5	2356.3	2528.8	2415.6	2383.5	2357.4	2471.9	2546.9
67.5°	1878.3	1919.8	2180.2	2461.5	2753.5	2755.7	2725.8	2664.5	2737.6	2766.4
70°	1601.1	1663.2	1988.2	2500.8	3011.5	3220.8	3192.0	3034.3	3002.7	2863.1
72.5°	1031.6	1115.1	1464.0	2177.4	3068.9	3658.5	3656.8	3368.1	3086.5	2675.2
75°	376.4	427.5	680.2	1366.7	2576.1	3636.2	3646.9	3310.9	2817.5	2066.5
77.5°	137.1	150.0	222.0	525.3	1584.3	2917.5	2939.8	2646.9	2005.5	1037.1
80°	72.0	79.1	113.7	203.8	678.8	1732.7	1767.6	1573.1	942.6	312.4
82.5°	39.8	43.1	63.7	110.7	305.8	740.9	761.8	621.4	331.6	132.4
85°	21.4	22.8	29.9	60.4	149.4	256.9	262.6	185.7	132.1	77.7
87.5°	6.3	7.7	9.9	19.2	58.5	57.7	59.1	36.8	52.2	39.3
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°
526.1	0°	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1	526.1
530.2	2.5°	528.6	527.7	524.7	523.3	521.7	521.4	522.8	523.1	523.3	523.6
536.3	5°	533.5	530.8	528.0	526.4	526.9	527.2	529.9	531.9	533.2	534.3
547.5	7.5°	543.1	540.9	536.3	536.0	536.8	539.3	542.9	547.2	549.7	551.6
562.1	10°	557.4	553.3	547.8	548.6	550.3	553.8	561.3	564.8	568.9	572.5
579.9	12.5°	572.0	568.4	562.1	562.6	565.4	571.7	578.8	583.2	586.0	588.7
599.2	15°	590.9	584.6	577.7	577.7	582.7	589.6	592.8	596.4	598.1	601.1
619.8	17.5°	610.4	602.2	593.1	592.6	598.6	601.9	603.8	604.4	604.9	608.2
639.8	20°	629.9	620.9	608.0	606.9	608.2	607.7	607.4	606.9	607.7	611.8
660.4	22.5°	649.2	638.7	620.9	615.9	612.1	606.9	606.6	606.3	606.9	611.0
682.7	25°	671.7	659.1	635.2	620.3	607.4	600.3	601.1	601.4	601.9	605.2
705.8	27.5°	696.1	682.1	648.3	618.9	595.6	590.7	589.3	590.1	592.0	597.2
728.8	30°	720.6	704.1	660.4	613.5	580.8	573.9	569.5	571.4	577.5	582.7
748.9	32.5°	742.8	726.4	670.0	601.4	561.8	551.1	545.3	547.8	553.8	555.8
771.1	35°	768.9	750.3	674.2	582.1	541.2	524.7	517.0	513.5	516.5	514.6
797.2	37.5°	798.1	778.6	673.6	556.9	517.0	498.1	487.4	473.9	467.6	461.0
835.7	40°	841.2	813.2	667.0	526.4	487.1	469.8	450.5	427.7	413.5	400.5
897.8	42.5°	900.0	861.3	654.9	492.9	453.3	437.1	411.0	384.3	361.8	340.4
992.0	45°	987.6	924.2	639.8	457.1	416.8	400.8	372.5	342.6	317.0	289.6
1125.8	47.5°	1114.0	1008.8	625.5	416.5	378.3	363.7	338.2	310.4	280.2	253.6
1319.2	50°	1287.6	1130.2	612.4	376.9	340.4	329.4	309.1	280.8	250.3	228.8
1545.9	52.5°	1508.5	1295.3	606.9	338.7	304.9	300.8	284.6	258.2	229.4	211.3
1810.1	55°	1762.1	1492.8	606.9	302.2	273.9	275.3	264.0	239.6	214.6	198.3
2082.7	57.5°	2020.9	1692.8	595.9	268.4	247.5	253.3	246.2	224.7	202.2	185.4
2369.2	60°	2259.3	1860.4	551.4	237.6	224.2	233.2	228.6	210.2	182.7	168.7
2608.8	62.5°	2442.6	1954.9	465.7	213.2	204.9	215.4	212.9	190.9	179.1	173.3
2805.5	65°	2534.3	1939.5	356.0	191.5	188.7	204.9	199.7	198.9	189.6	183.0
2869.5	67.5°	2478.0	1807.1	258.2	175.5	179.4	195.3	215.4	218.7	201.4	188.5
2689.3	70°	2231.0	1567.6	192.3	160.4	167.6	195.6	245.6	228.8	197.5	182.4
2156.8	72.5°	1697.2	1168.9	149.2	144.5	152.2	197.0	259.1	224.2	186.5	201.6
1343.7	75°	970.6	641.7	119.8	125.0	133.0	184.1	252.2	212.1	178.0	185.2
532.4	77.5°	370.1	246.7	98.9	105.8	106.9	160.7	241.2	211.3	169.5	165.4
159.6	80°	128.3	96.4	81.9	84.1	82.7	142.9	231.3	183.8	138.7	124.2
65.9	82.5°	52.5	48.1	64.8	62.1	58.8	111.0	186.8	150.3	113.5	100.3
31.9	85°	22.8	30.5	42.9	37.6	34.1	76.9	149.7	127.2	95.9	82.7
10.4	87.5°	4.7	11.5	18.1	17.0	17.6	51.4	106.3	90.4	67.9	50.8
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°  
526.1  
524.7  
534.9  
552.2  
571.7  
589.8  
602.2  
609.3  
613.5  
613.7  
609.6  
602.5  
588.5  
562.6  
520.6  
465.1  
401.4  
338.5  
286.3  
250.5  
227.5  
209.9  
196.7  
182.7  
166.5  
171.4  
180.8  
186.3  
179.9  
*200.0*  
185.2  
150.8  
120.1  
99.2  
82.4  
39.8  
0.0

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