

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: P938967

Luminaire Tested: **GALN-SB1B-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938967  
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-SB1B-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5065 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

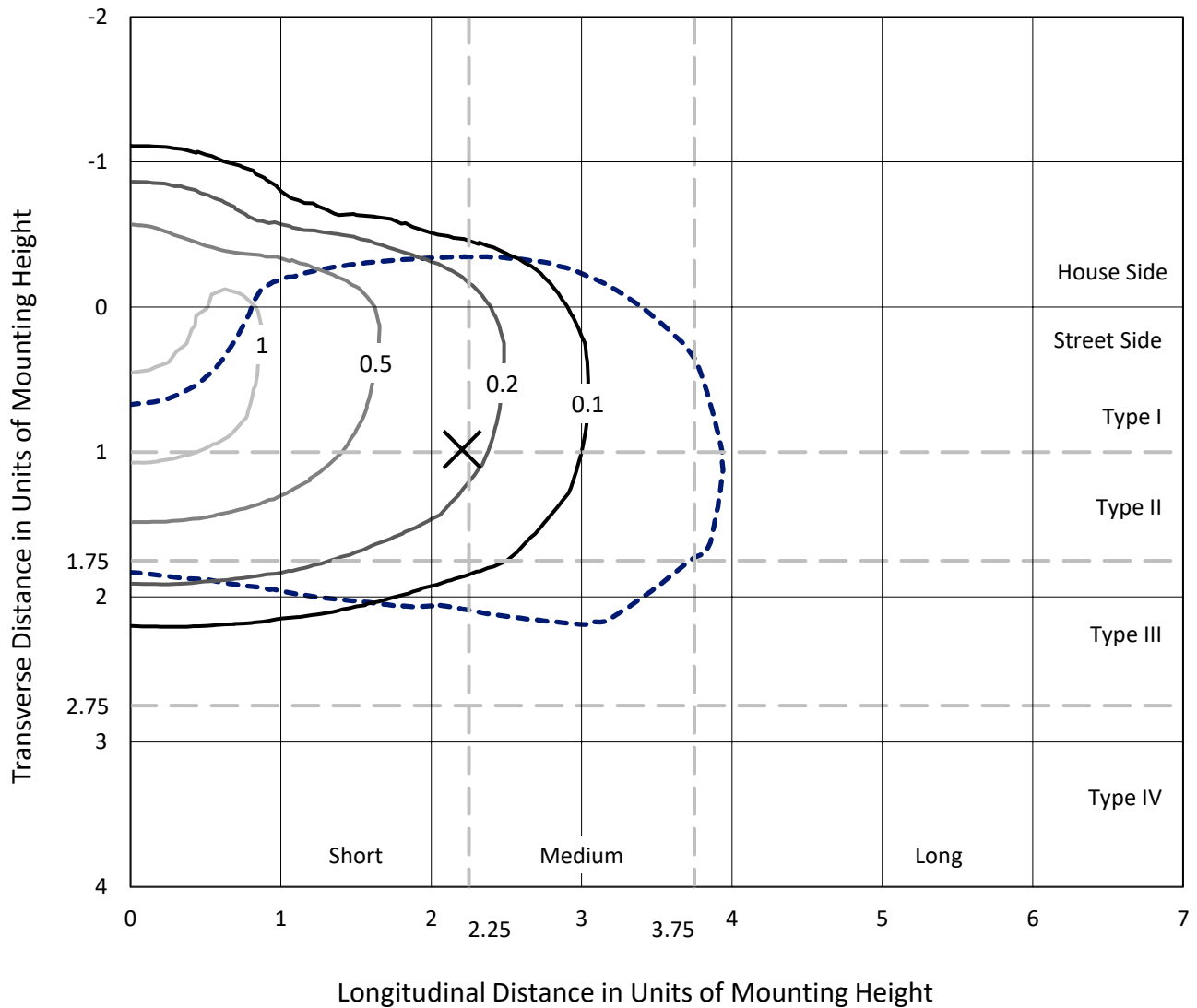
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P938967  
 CATALOG NUMBER: GALN-SB1B-830-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

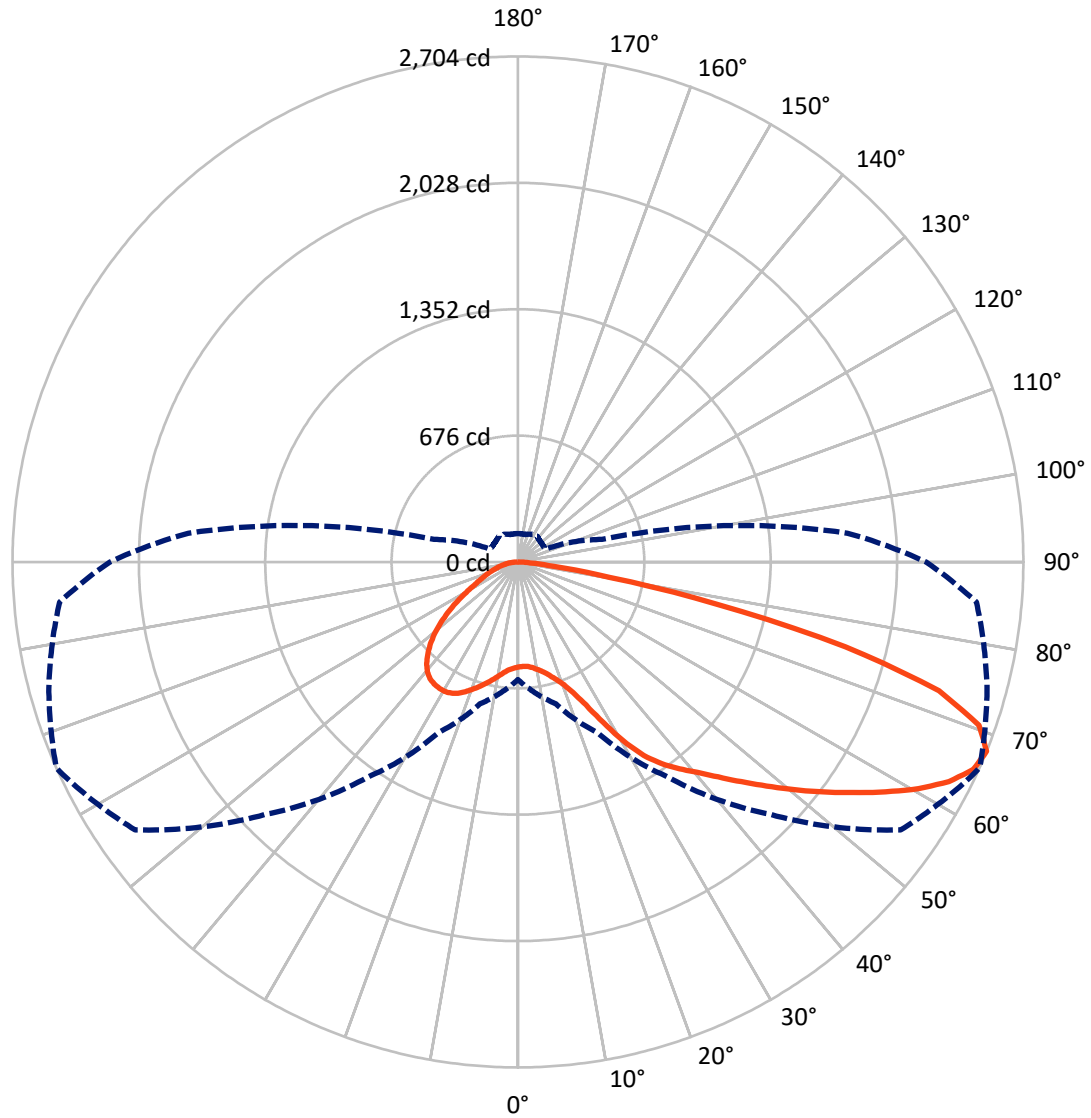
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P938967  
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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	1259.4	0.0	1259.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	3805.6	0.0	3805.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	5065.0	0.0	5065.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	1.1
10°-20°	184.0	3.6
20°-30°	354.7	7.0
30°-40°	621.9	12.3
40°-50°	924.5	18.3
50°-60°	1172.0	23.1
60°-70°	1146.7	22.6
70°-80°	547.0	10.8
80°-90°	58.5	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°	5065.0	100.0
0°-180°	5065.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938967

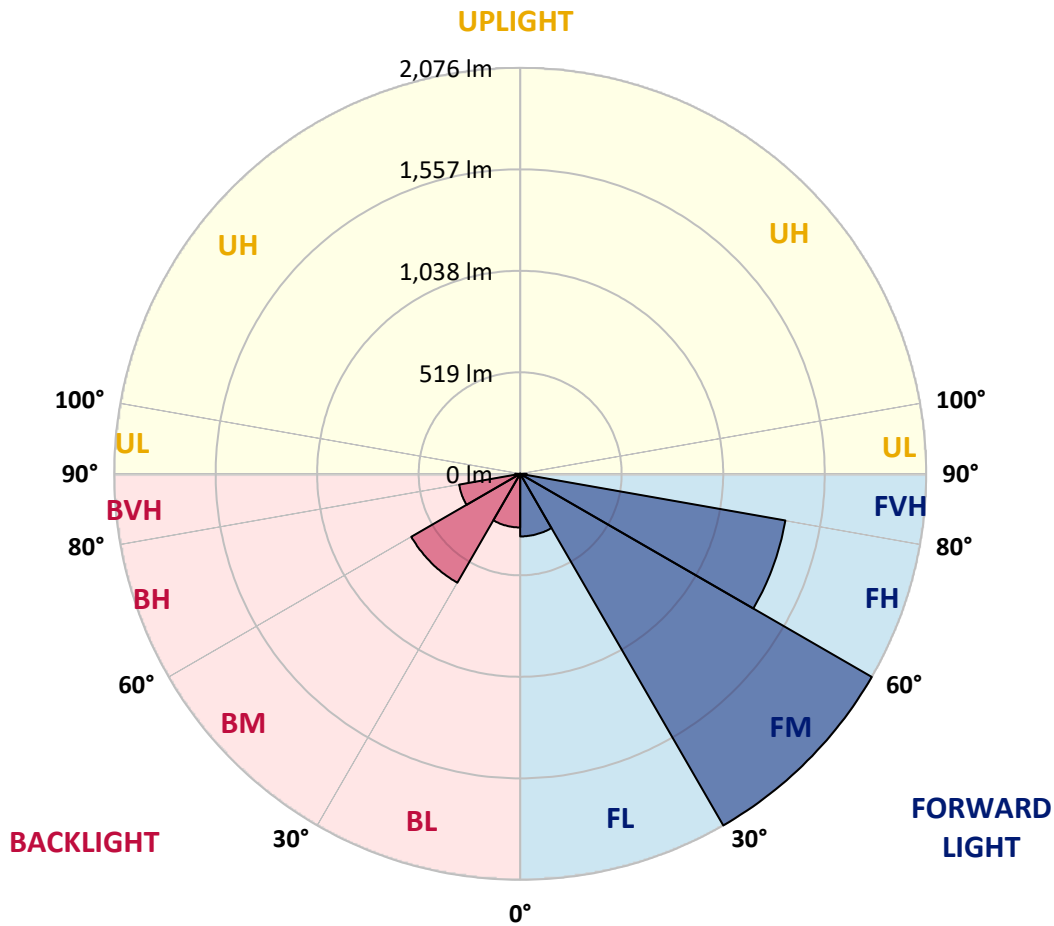
CATALOG NUMBER: GALN-SB1B-830-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.1	6.3			
FM (30°-60°)	2075.6	41.0			
FH (60°-80°)	1376.8	27.2			G1/1800
FVH (80°-90°)	33.1	0.7			G1/100
BL (0°-30°)	274.3	5.4	B1/500		
BM (30°-60°)	642.8	12.7	B1/1000		
BH (60°-80°)	316.9	6.3	B1/500		G1/500
BVH (80°-90°)	25.3	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



REPORT NUMBER: P938967

CATALOG NUMBER: GALN-SB1B-830-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	555.9	559.1	558.3	557.0	556.7	557.3	558.0	558.8	558.6	559.9
5°	554.3	557.5	557.3	557.3	558.3	560.4	561.8	563.1	561.8	563.4
7.5°	555.4	557.8	558.8	559.9	562.6	566.6	569.8	572.7	571.1	573.0
10°	569.0	570.8	571.9	571.9	573.8	578.3	581.5	586.8	585.5	588.4
12.5°	593.7	595.6	595.6	594.5	595.8	598.8	599.8	605.7	603.3	608.1
15°	624.0	627.8	624.8	623.0	623.5	626.4	626.2	630.7	628.3	632.3
17.5°	657.6	662.4	657.6	657.3	656.2	659.4	659.7	663.7	659.4	662.4
20°	697.2	703.9	699.9	701.2	698.8	700.2	701.5	707.3	700.7	702.8
22.5°	753.1	761.1	756.8	761.9	760.3	759.2	759.0	769.3	759.0	759.8
25°	834.5	844.1	836.7	843.6	843.6	847.1	851.0	864.4	847.1	842.0
27.5°	954.8	964.4	949.8	954.0	952.7	961.2	957.0	990.0	971.3	963.1
30°	1099.6	1116.6	1089.0	1087.9	1086.6	1100.1	1106.3	1128.1	1109.2	1100.9
32.5°	1256.1	1273.9	1240.9	1231.3	1226.3	1234.5	1229.5	1247.0	1234.0	1221.2
35°	1421.6	1439.2	1407.8	1389.1	1368.9	1351.6	1333.5	1338.0	1325.8	1306.4
37.5°	1578.1	1610.3	1577.0	1557.1	1519.8	1486.0	1435.4	1414.4	1403.0	1385.1
40°	1737.5	1755.8	1730.6	1713.5	1673.1	1620.1	1539.2	1494.8	1479.4	1462.1
42.5°	1854.8	1872.4	1858.8	1847.1	1815.5	1754.0	1649.4	1593.8	1571.4	1552.0
45°	1948.0	1961.0	1952.5	1956.8	1943.2	1883.6	1763.6	1700.0	1676.8	1653.1
47.5°	1985.5	1999.3	2012.9	2038.2	2061.4	2017.4	1886.2	1814.9	1790.4	1766.2
50°	1981.2	1995.4	2034.7	2088.5	2160.3	2145.7	2015.6	1937.3	1914.7	1887.0
52.5°	1947.2	1963.2	2013.7	2103.1	2217.6	2241.8	2147.3	2063.7	2042.5	2009.5
55°	1857.8	1867.4	1943.2	2069.9	2231.1	2308.8	2276.4	2198.4	2177.1	2131.1
57.5°	1692.0	1705.8	1816.3	1980.2	2197.1	2354.3	2389.7	2340.0	2319.5	2253.2
60°	1475.6	1497.7	1624.1	1829.6	2110.3	2354.1	2492.7	2479.2	2462.1	2373.5
62.5°	1230.8	1256.3	1378.0	1616.7	1958.6	2287.3	2557.1	2595.7	2586.9	2484.5
65°	945.3	962.8	1083.9	1341.2	1722.6	2143.8	2564.6	2675.3	2676.9	2568.8
67.5°	629.4	679.9	785.0	1006.5	1406.4	1909.4	2499.1	2688.3	2703.8	2597.8
70°	307.1	373.6	476.6	654.1	1006.5	1549.9	2328.0	2581.3	2615.7	2513.2
72.5°	127.5	149.0	205.2	322.8	577.7	1045.8	1984.2	2291.3	2354.9	2226.9
75°	86.0	93.1	117.4	165.5	263.2	515.7	1430.9	1708.5	1810.9	1681.9
77.5°	66.3	70.8	85.4	115.8	156.5	195.1	765.9	1029.6	1082.6	1002.2
80°	52.2	55.6	63.9	84.4	111.0	104.3	261.1	466.5	497.1	417.0
82.5°	45.2	46.6	45.8	57.2	73.7	60.9	85.7	172.2	190.0	137.8
85°	32.7	36.5	38.1	35.4	39.1	30.9	35.1	60.9	67.1	59.9
87.5°	13.3	19.7	24.2	22.9	14.4	8.8	10.9	17.8	20.5	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938967  
 CATALOG NUMBER: GALN-SB1B-830-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
561.8	0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
562.0	2.5°	562.3	564.2	565.5	567.1	568.2	569.8	573.0	574.8	575.1	576.4
566.3	5°	567.4	570.0	573.0	577.2	582.0	586.0	592.1	596.4	598.0	599.3
576.7	7.5°	578.3	582.0	587.3	594.8	601.7	607.0	614.5	619.5	624.6	626.4
593.2	10°	594.5	599.8	607.5	617.7	625.1	632.0	639.7	644.0	649.1	651.2
612.9	12.5°	614.7	620.3	630.4	644.5	651.5	656.2	658.9	657.8	658.9	660.8
636.6	15°	637.9	644.0	655.4	670.6	675.4	671.2	665.3	660.0	659.2	659.7
665.3	17.5°	665.3	669.8	683.1	695.9	692.4	674.9	662.1	653.6	649.3	648.0
702.0	20°	703.6	703.6	714.5	722.5	699.4	669.6	649.6	635.8	627.0	623.2
752.0	22.5°	750.2	745.9	752.8	747.3	698.0	654.7	627.0	603.0	589.7	584.4
822.0	25°	809.3	804.2	802.3	767.8	688.4	631.0	586.0	557.0	545.3	542.3
922.9	27.5°	898.4	885.6	861.4	778.9	670.9	593.7	538.1	511.2	504.6	504.8
1052.5	30°	1017.1	991.6	932.2	780.8	642.1	541.0	489.1	470.0	466.8	468.1
1161.3	32.5°	1127.0	1102.8	1004.6	772.3	598.0	489.4	445.2	432.4	427.7	429.2
1244.4	35°	1213.2	1206.6	1071.7	760.3	543.7	441.0	405.8	394.9	385.6	383.5
1322.6	37.5°	1294.7	1292.0	1122.0	743.5	489.9	406.6	374.2	359.8	346.2	338.8
1409.1	40°	1384.1	1381.4	1155.0	717.7	442.3	376.8	345.7	326.8	310.0	296.5
1507.0	42.5°	1484.7	1469.0	1170.7	680.7	401.8	351.5	322.5	297.0	274.9	262.4
1617.7	45°	1594.6	1559.2	1170.4	633.6	367.8	328.4	297.8	261.6	241.1	229.4
1731.4	47.5°	1711.1	1645.4	1156.0	581.5	334.8	302.8	259.5	231.8	218.2	211.0
1854.8	50°	1831.4	1726.0	1131.5	521.6	301.0	273.8	235.5	216.6	206.2	199.6
1977.3	52.5°	1944.5	1799.2	1102.0	453.7	266.7	245.6	224.9	210.2	199.3	191.9
2095.9	55°	2049.6	1862.3	1060.2	384.3	238.7	226.7	219.8	207.6	195.1	186.3
2216.5	57.5°	2143.0	1903.3	988.1	319.1	218.7	213.7	214.5	203.0	188.7	181.2
2335.2	60°	2220.8	1933.3	881.4	258.7	202.5	200.9	206.2	194.5	177.8	169.3
2435.5	62.5°	2267.3	1932.8	750.5	211.8	188.7	189.2	195.3	183.9	166.9	158.9
2487.9	65°	2263.3	1885.4	606.7	181.2	175.4	175.9	183.9	172.2	157.8	153.0
2461.6	67.5°	2183.2	1770.0	465.4	161.3	160.7	163.1	172.4	164.2	152.2	151.7
2304.6	70°	1966.3	1530.2	335.3	145.3	145.6	149.0	161.3	159.1	149.3	150.4
1937.6	72.5°	1576.8	1166.7	225.1	128.5	128.8	134.4	150.6	155.1	146.4	160.5
1374.8	75°	1050.1	727.6	144.8	110.7	111.0	118.2	141.3	147.4	138.4	159.9
715.3	77.5°	504.6	327.1	104.9	93.1	93.1	99.8	122.1	132.0	117.9	124.3
229.9	80°	174.3	122.9	82.5	75.0	73.4	78.0	103.0	114.4	101.7	93.7
75.0	82.5°	68.7	63.9	66.3	58.3	53.0	55.9	80.1	94.5	74.8	67.6
42.3	85°	39.4	41.5	46.8	38.6	30.6	34.3	58.8	67.9	56.4	49.8
13.8	87.5°	10.6	14.6	21.6	20.0	13.8	14.6	27.9	37.5	32.5	25.0
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°  
561.8  
576.1  
599.0  
626.7  
652.3  
661.3  
661.6  
649.9  
622.5  
583.6  
542.9  
505.6  
472.6  
431.4  
385.1  
339.0  
297.8  
263.2  
228.9  
209.4  
197.2  
188.7  
182.8  
176.4  
165.5  
156.5  
152.8  
*152.5*  
150.1  
162.6  
161.3  
113.9  
87.8  
67.3  
50.8  
25.8  
0.0

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