

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: P939467

Luminaire Tested: **GALN-SB2A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939467
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-SB2A-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

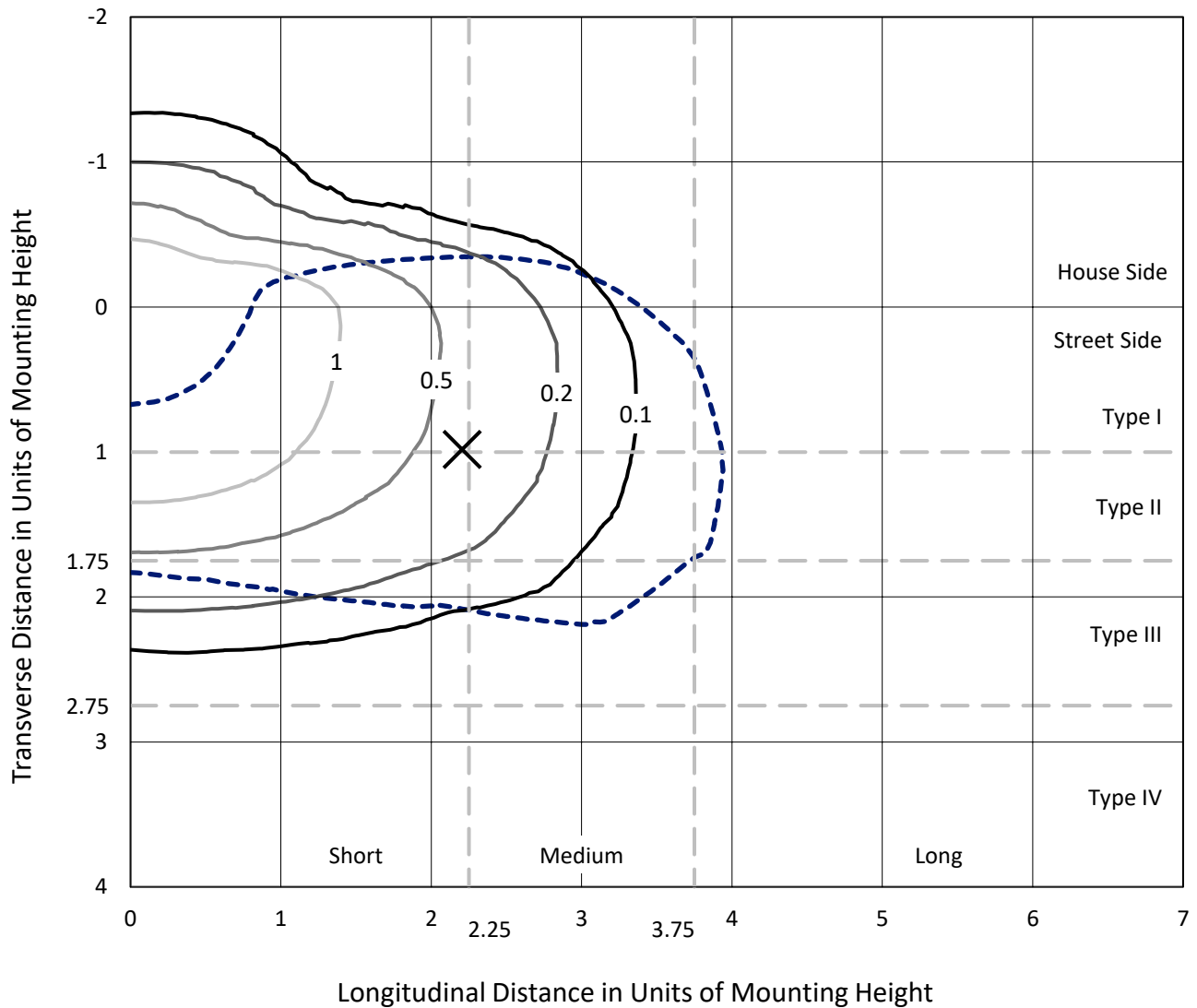
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

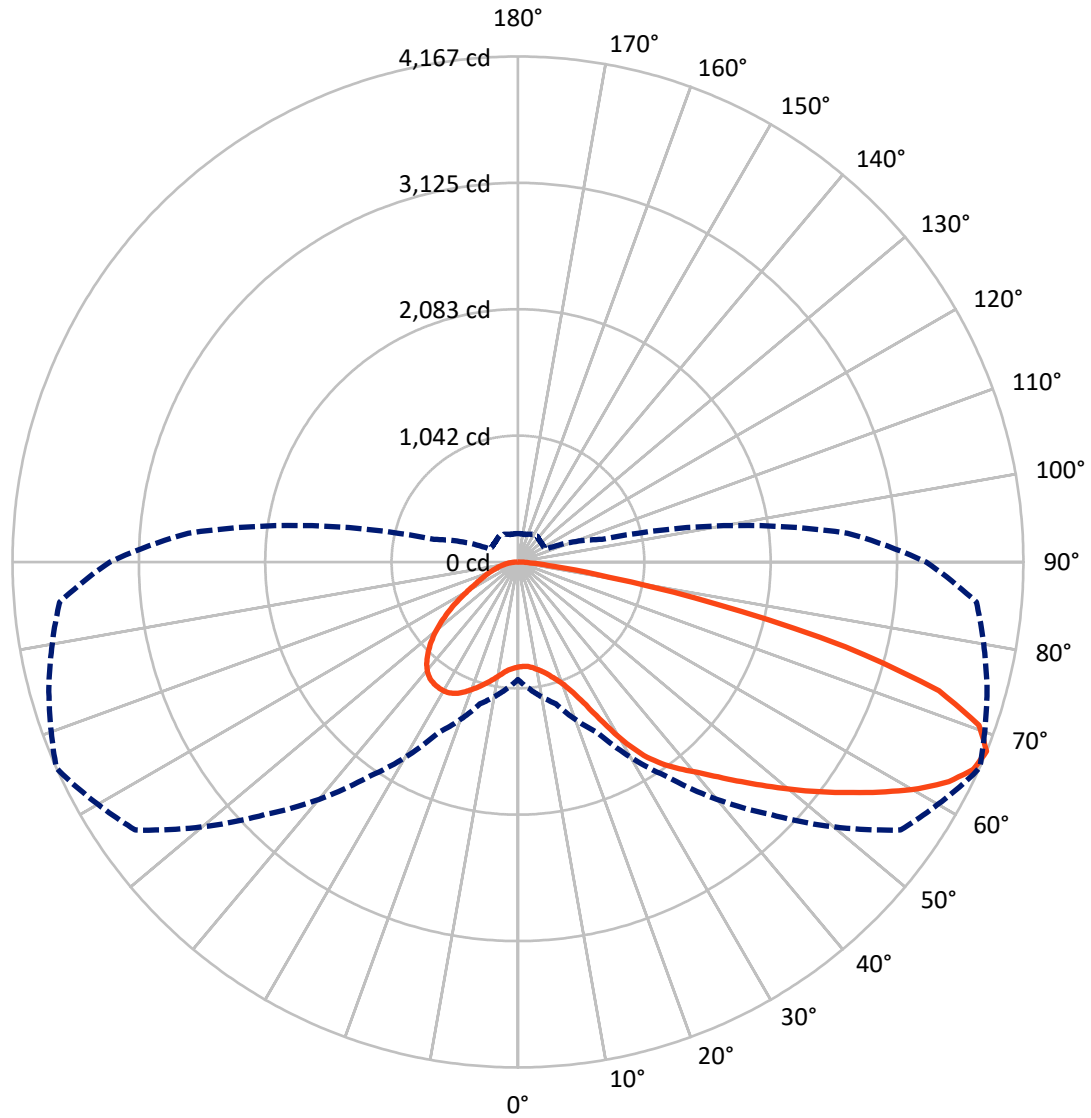
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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
House Side	Lumens	1940.9	0.0	1940.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5865.1	0.0	5865.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	7806.0	0.0	7806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.1
10°-20°	283.6	3.6
20°-30°	546.6	7.0
30°-40°	958.4	12.3
40°-50°	1424.9	18.3
50°-60°	1806.2	23.1
60°-70°	1767.3	22.6
70°-80°	843.0	10.8
80°-90°	90.1	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°	7806.0	100.0
0°-180°	7806.0	100.0

Coefficient of Utilization



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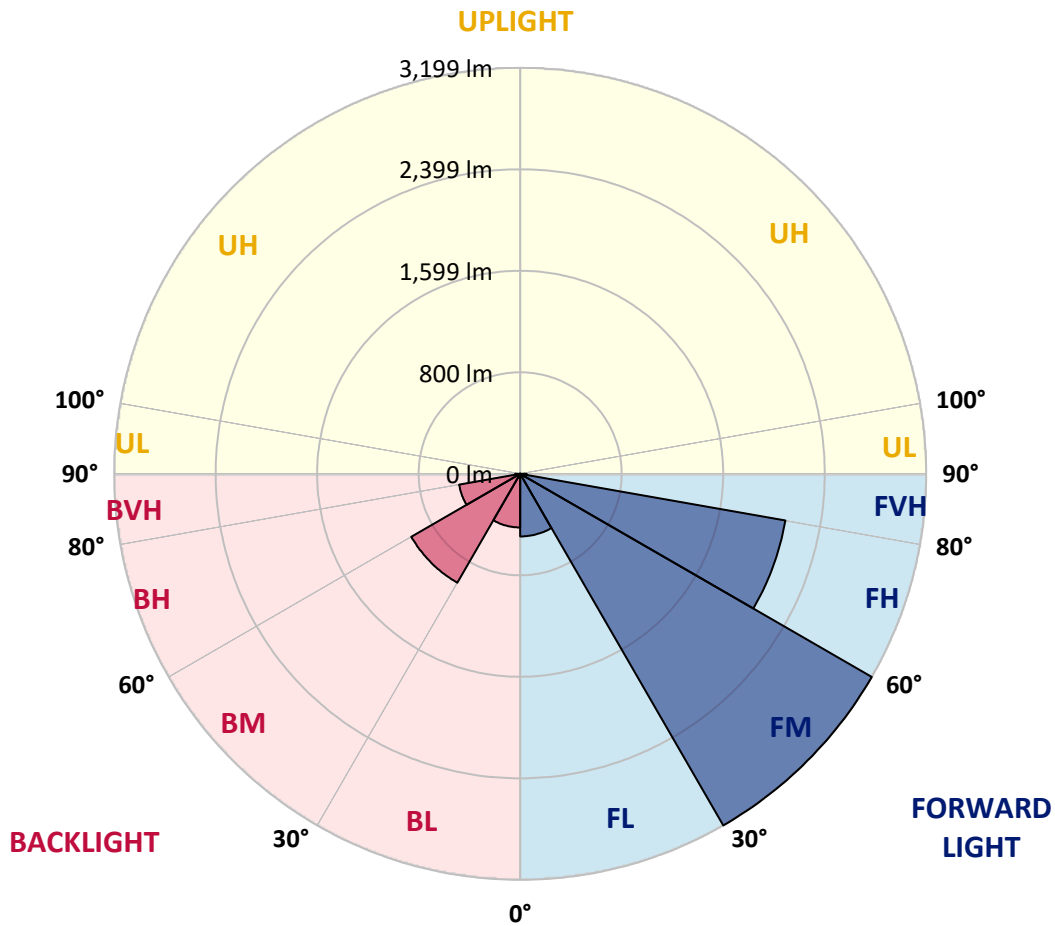
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.3	6.3			
FM (30°-60°)	3198.8	41.0			
FH (60°-80°)	2121.9	27.2			G2/5000
FVH (80°-90°)	51.1	0.7			G1/100
BL (0°-30°)	422.8	5.4	B1/500		
BM (30°-60°)	990.7	12.7	B1/1000		
BH (60°-80°)	488.4	6.3	B1/500		G1/500
BVH (80°-90°)	39.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	865.8	865.8	865.8	865.8	865.8	865.8	865.8	865.8	865.8	865.8
2.5°	856.8	861.7	860.5	858.4	858.0	858.8	860.0	861.3	860.9	862.9
5°	854.3	859.2	858.8	858.8	860.5	863.7	865.8	867.8	865.8	868.2
7.5°	855.9	859.6	861.3	862.9	867.0	873.2	878.1	882.6	880.1	883.0
10°	876.9	879.7	881.4	881.4	884.2	891.2	896.1	904.3	902.3	906.8
12.5°	915.0	917.9	917.9	916.2	918.3	922.8	924.4	933.5	929.8	937.2
15°	961.8	967.5	963.0	960.1	960.9	965.5	965.0	972.0	968.3	974.5
17.5°	1013.4	1020.8	1013.4	1013.0	1011.4	1016.3	1016.7	1022.9	1016.3	1020.8
20°	1074.5	1084.8	1078.6	1080.7	1077.0	1079.1	1081.1	1090.1	1079.9	1083.2
22.5°	1160.7	1173.0	1166.4	1174.2	1171.7	1170.1	1169.7	1185.7	1169.7	1170.9
25°	1286.2	1300.9	1289.5	1300.1	1300.1	1305.5	1311.6	1332.1	1305.5	1297.7
27.5°	1471.6	1486.3	1463.8	1470.3	1468.3	1481.4	1474.8	1525.7	1497.0	1484.3
30°	1694.7	1720.9	1678.3	1676.6	1674.6	1695.5	1704.9	1738.5	1709.4	1696.7
32.5°	1935.8	1963.3	1912.4	1897.7	1889.9	1902.6	1894.8	1921.9	1901.8	1882.1
35°	2190.9	2218.0	2169.6	2140.9	2109.7	2083.1	2055.2	2062.1	2043.3	2013.3
37.5°	2432.1	2481.7	2430.4	2399.7	2342.3	2290.2	2212.3	2179.9	2162.2	2134.7
40°	2677.8	2706.1	2667.1	2640.8	2578.5	2496.9	2372.2	2303.7	2279.9	2253.3
42.5°	2858.6	2885.7	2864.8	2846.7	2797.9	2703.2	2542.0	2456.3	2421.8	2391.9
45°	3002.2	3022.3	3009.1	3015.7	2994.8	2902.9	2717.9	2619.9	2584.2	2547.7
47.5°	3060.0	3081.3	3102.2	3141.2	3176.9	3109.2	2907.0	2797.1	2759.4	2722.0
50°	3053.4	3075.2	3135.9	3218.7	3329.5	3306.9	3106.3	2985.8	2950.9	2908.2
52.5°	3000.9	3025.5	3103.5	3241.3	3417.6	3455.0	3309.4	3180.6	3147.8	3096.9
55°	2863.1	2877.9	2994.8	3190.0	3438.5	3558.3	3508.3	3388.1	3355.3	3284.3
57.5°	2607.6	2628.9	2799.2	3051.8	3386.0	3628.4	3683.0	3606.3	3574.7	3472.6
60°	2274.2	2308.2	2503.0	2819.7	3252.3	3628.0	3841.7	3820.8	3794.5	3658.0
62.5°	1896.9	1936.2	2123.7	2491.6	3018.6	3525.1	3941.0	4000.4	3986.9	3829.0
65°	1456.8	1483.9	1670.5	2067.1	2654.8	3304.0	3952.4	4123.1	4125.5	3959.0
67.5°	970.0	1047.9	1209.9	1551.1	2167.5	2942.7	3851.5	4143.2	4166.9	4003.7
70°	473.3	575.8	734.5	1008.1	1551.1	2388.6	3587.8	3978.3	4031.2	3873.3
72.5°	196.5	229.7	316.2	497.5	890.4	1611.8	3057.9	3531.2	3629.3	3432.0
75°	132.5	143.5	180.9	255.1	405.6	794.8	2205.3	2633.0	2790.9	2592.0
77.5°	102.1	109.1	131.7	178.4	241.2	300.6	1180.4	1586.8	1668.4	1544.6
80°	80.4	85.7	98.4	130.0	171.0	160.8	402.3	719.0	766.1	642.7
82.5°	69.7	71.8	70.5	88.2	113.6	93.9	132.1	265.4	292.8	212.4
85°	50.4	56.2	58.6	54.5	60.3	47.6	54.1	93.9	103.4	92.3
87.5°	20.5	30.3	37.3	35.3	22.1	13.5	16.8	27.5	31.6	34.5
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°
865.8	0°	865.8	865.8	865.8	865.8	865.8	865.8	865.8	865.8	865.8	865.8
866.2	2.5°	866.6	869.5	871.5	874.0	875.6	878.1	883.0	885.9	886.3	888.3
872.8	5°	874.4	878.5	883.0	889.6	897.0	903.1	912.5	919.1	921.6	923.6
888.8	7.5°	891.2	897.0	905.2	916.6	927.3	935.5	947.0	954.8	962.6	965.5
914.2	10°	916.2	924.4	936.3	951.9	963.4	974.1	986.0	992.5	1000.3	1003.6
944.5	12.5°	947.4	956.0	971.6	993.3	1004.0	1011.4	1015.5	1013.8	1015.5	1018.4
981.0	15°	983.1	992.5	1010.2	1033.5	1040.9	1034.4	1025.3	1017.1	1015.9	1016.7
1025.3	17.5°	1025.3	1032.3	1052.8	1072.5	1067.2	1040.1	1020.4	1007.3	1000.7	998.7
1081.9	20°	1084.4	1084.4	1101.2	1113.5	1077.8	1031.9	1001.1	979.8	966.3	960.5
1159.0	22.5°	1156.2	1149.6	1160.3	1151.7	1075.8	1008.9	966.3	929.4	908.9	900.6
1266.9	25°	1247.2	1239.4	1236.5	1183.2	1061.0	972.4	903.1	858.4	840.4	835.8
1422.3	27.5°	1384.6	1364.9	1327.6	1200.5	1033.9	915.0	829.3	787.9	777.6	778.0
1622.1	30°	1567.5	1528.2	1436.7	1203.3	989.6	833.8	753.8	724.3	719.4	721.4
1789.8	32.5°	1736.9	1699.6	1548.2	1190.2	921.6	754.2	686.2	666.5	659.1	661.5
1917.8	35°	1869.8	1859.5	1651.6	1171.7	837.9	679.6	625.5	608.6	594.3	591.0
2038.4	37.5°	1995.3	1991.2	1729.1	1145.9	755.1	626.7	576.6	554.5	533.6	522.1
2171.6	40°	2133.1	2129.0	1780.0	1106.1	681.6	580.7	532.8	503.6	477.8	456.9
2322.6	42.5°	2288.1	2263.9	1804.2	1049.1	619.3	541.8	497.1	457.7	423.7	404.4
2493.2	45°	2457.5	2403.0	1803.8	976.5	566.8	506.1	458.9	403.2	371.6	353.5
2668.3	47.5°	2637.1	2535.8	1781.6	896.1	515.9	466.7	399.9	357.2	336.3	325.2
2858.6	50°	2822.5	2660.1	1743.9	803.9	463.9	422.0	363.0	333.8	317.9	307.6
3047.3	52.5°	2996.8	2772.9	1698.4	699.3	411.0	378.6	346.6	324.0	307.2	295.7
3230.2	55°	3158.8	2870.1	1634.0	592.2	367.9	349.4	338.8	319.9	300.6	287.1
3416.0	57.5°	3302.8	2933.3	1522.8	491.7	337.1	329.3	330.6	312.9	290.8	279.3
3598.9	60°	3422.6	2979.6	1358.4	398.6	312.1	309.6	317.9	299.8	274.0	260.8
3753.5	62.5°	3494.3	2978.8	1156.6	326.5	290.8	291.6	301.0	283.4	257.2	244.8
3834.3	65°	3488.2	2905.8	935.1	279.3	270.3	271.1	283.4	265.4	243.2	235.8
3793.7	67.5°	3364.7	2727.8	717.3	248.5	247.7	251.4	265.8	253.1	234.6	233.8
3551.7	70°	3030.5	2358.3	516.8	223.9	224.3	229.7	248.5	245.3	230.1	231.7
2986.2	72.5°	2430.0	1798.0	347.0	198.1	198.5	207.1	232.1	239.1	225.6	247.3
2118.7	75°	1618.4	1121.3	223.1	170.6	171.0	182.1	217.8	227.2	213.3	246.5
1102.4	77.5°	777.6	504.1	161.6	143.5	143.5	153.8	188.3	203.4	181.7	191.5
354.4	80°	268.6	189.5	127.1	115.7	113.2	120.2	158.7	176.4	156.7	144.4
115.7	82.5°	105.8	98.4	102.1	89.8	81.6	86.1	123.4	145.6	115.2	104.2
65.2	85°	60.7	64.0	72.2	59.5	47.2	52.9	90.6	104.6	86.9	76.7
21.3	87.5°	16.4	22.6	33.2	30.8	21.3	22.6	43.1	57.8	50.0	38.6
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>
865.8
887.9
923.2
965.9
1005.2
1019.2
1019.6
1001.5
959.3
899.4
836.7
779.3
728.4
664.8
593.5
522.5
458.9
405.6
352.7
322.8
303.9
290.8
281.8
271.9
255.1
241.2
235.4
235.0
231.3
250.6
248.5
175.5
135.3
103.8
78.3
39.8
0.0

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