

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: P945774

Luminaire Tested: **GALN-SB1C-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945774
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-SB1C-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7152 lumens
Efficiency: N/A
Efficacy: 131.5 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

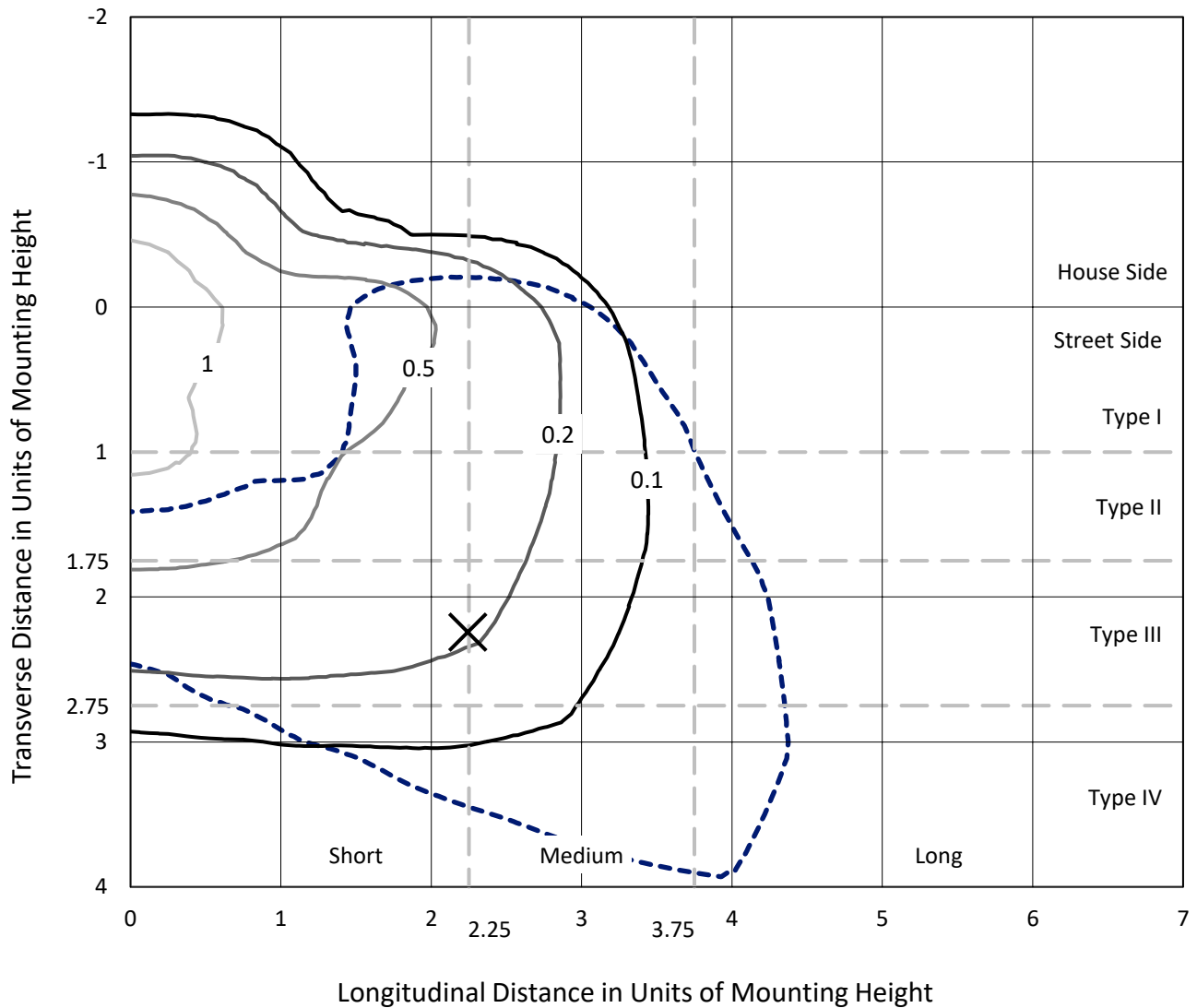
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

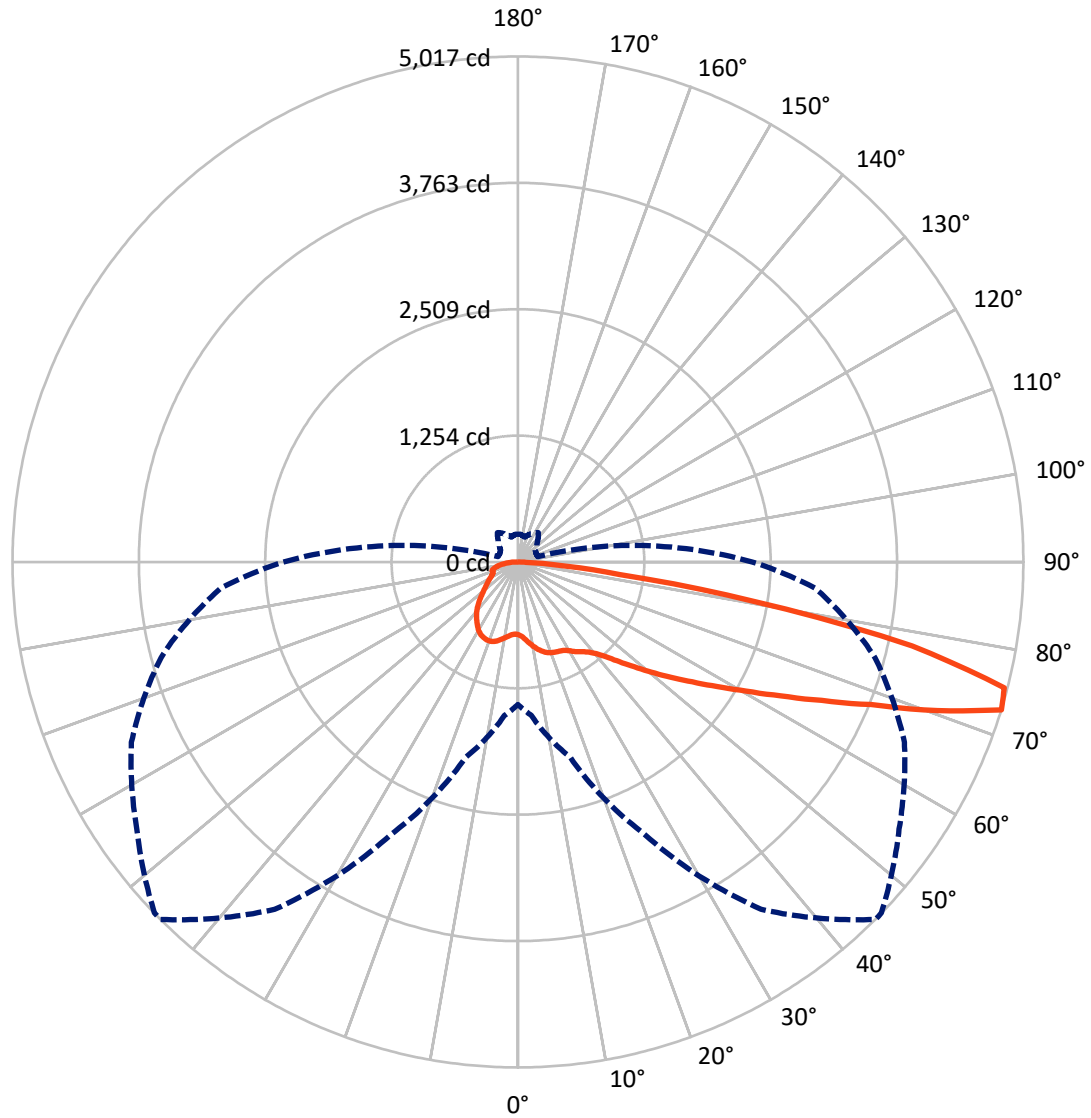
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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
House Side	Lumens	1616.8	0.0	1616.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5535.2	0.0	5535.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	7152.0	0.0	7152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.0
10°-20°	244.8	3.4
20°-30°	425.9	6.0
30°-40°	610.6	8.5
40°-50°	859.7	12.0
50°-60°	1316.8	18.4
60°-70°	1907.6	26.7
70°-80°	1523.4	21.3
80°-90°	189.7	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°	7152.0	100.0
0°-180°	7152.0	100.0

Coefficient of Utilization



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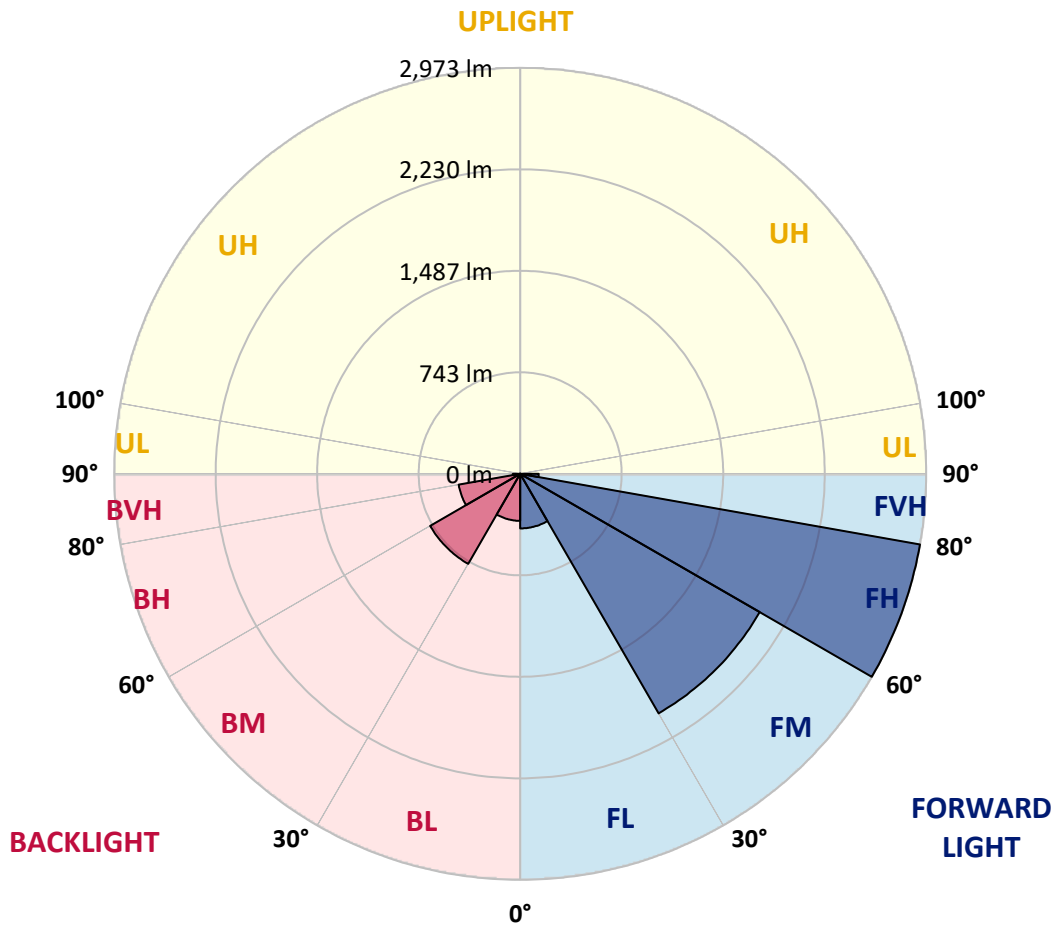
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.9	5.6			
FM (30°-60°)	2025.8	28.3			
FH (60°-80°)	2973.3	41.6			G2/5000
FVH (80°-90°)	136.1	1.9			G2/225
BL (0°-30°)	344.2	4.8	B1/500		
BM (30°-60°)	761.3	10.6	B1/1000		
BH (60°-80°)	457.7	6.4	B1/500		G1/500
BVH (80°-90°)	53.6	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°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
2.5°	749.8	754.7	750.1	746.0	744.1	739.2	738.8	735.8	733.9	728.7
5°	802.1	808.5	801.0	792.7	785.2	773.1	771.6	762.9	753.1	741.8
7.5°	861.3	866.9	858.3	845.8	832.6	812.7	812.3	796.5	781.0	761.8
10°	912.9	920.4	908.7	891.8	875.2	852.6	850.0	831.9	812.3	787.4
12.5°	958.5	963.8	952.5	931.7	912.5	889.9	886.5	866.6	844.7	816.4
15°	994.6	1001.4	986.4	964.1	943.8	921.6	918.5	900.5	878.6	848.8
17.5°	1018.4	1024.0	1008.6	983.7	964.1	945.7	943.4	928.3	909.1	879.0
20°	1027.4	1033.5	1017.3	992.0	973.9	959.6	958.5	947.6	934.4	906.9
22.5°	1036.5	1042.1	1021.0	994.6	978.8	969.8	969.4	962.2	957.0	934.4
25°	1073.0	1074.5	1046.3	1008.2	985.6	977.7	977.3	976.9	979.2	961.5
27.5°	1104.7	1104.3	1080.2	1044.4	1009.3	992.8	992.4	996.2	1003.3	988.6
30°	1151.0	1146.9	1118.2	1080.9	1048.9	1023.3	1021.0	1017.6	1023.3	1011.6
32.5°	1249.3	1236.2	1189.8	1123.5	1081.7	1062.1	1059.1	1038.0	1040.2	1033.1
35°	1390.2	1372.9	1311.1	1204.1	1122.4	1094.5	1093.0	1066.2	1061.7	1055.3
37.5°	1557.9	1536.4	1464.5	1320.9	1192.4	1132.2	1129.9	1105.8	1087.3	1080.6
40°	1726.3	1699.2	1639.7	1463.3	1295.7	1195.1	1187.9	1151.4	1130.3	1119.0
42.5°	1889.8	1867.2	1816.4	1623.1	1423.0	1287.0	1271.2	1208.6	1192.8	1182.3
45°	2034.5	2014.2	1976.9	1793.8	1572.2	1412.1	1396.7	1294.6	1289.7	1289.7
47.5°	2152.1	2147.5	2108.0	1967.8	1748.2	1554.5	1527.8	1414.0	1427.2	1447.5
50°	2282.4	2270.0	2227.8	2139.2	1955.0	1717.7	1695.8	1560.5	1609.9	1665.7
52.5°	2402.2	2409.0	2361.9	2317.8	2188.6	1899.6	1861.2	1733.5	1840.1	1932.4
55°	2525.4	2525.8	2512.6	2506.6	2433.5	2100.8	2058.6	1941.5	2111.0	2225.5
57.5°	2641.1	2641.8	2661.4	2714.6	2717.6	2332.9	2285.1	2196.9	2412.0	2528.8
60°	2744.3	2749.6	2803.1	2927.4	2967.4	2598.9	2553.7	2498.7	2723.2	2840.8
62.5°	2779.0	2798.2	2917.3	3094.0	3214.1	2925.2	2880.7	2847.9	3050.3	3159.5
65°	2720.2	2764.3	2994.5	3231.5	3468.1	3312.9	3268.8	3233.0	3390.1	3493.0
67.5°	2575.9	2632.8	2990.0	3375.8	3776.3	3779.3	3738.2	3654.2	3754.4	3794.0
70°	2195.8	2280.9	2726.6	3429.7	4130.1	4417.1	4377.6	4161.3	4118.0	3926.6
72.5°	1414.7	1529.3	2007.8	2986.2	4208.8	5017.3	5015.1	4619.1	4232.9	3668.9
75°	516.2	586.2	932.9	1874.4	3532.9	4986.8	5001.5	4540.7	3864.1	2834.0
77.5°	188.0	205.7	304.4	720.4	2172.8	4001.2	4031.7	3630.1	2750.4	1422.3
80°	98.7	108.5	156.0	279.6	931.0	2376.2	2424.1	2157.3	1292.7	428.4
82.5°	54.6	59.2	87.4	151.8	419.3	1016.1	1044.8	852.2	454.8	181.6
85°	29.4	31.3	41.1	82.9	205.0	352.3	360.2	254.7	181.2	106.6
87.5°	8.7	10.5	13.6	26.4	80.3	79.1	81.0	50.5	71.6	53.9
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°
721.5	0°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
727.1	2.5°	724.9	723.8	719.6	717.7	715.5	715.1	717.0	717.4	717.7	718.1
735.4	5°	731.7	727.9	724.1	721.9	722.6	723.0	726.8	729.4	731.3	732.8
750.9	7.5°	744.9	741.8	735.4	735.1	736.2	739.6	744.5	750.5	753.9	756.5
770.9	10°	764.4	758.8	751.3	752.4	754.7	759.6	769.7	774.6	780.3	785.2
795.3	12.5°	784.4	779.5	770.9	771.6	775.4	784.0	793.8	799.9	803.6	807.4
821.7	15°	810.4	801.7	792.3	792.3	799.1	808.5	813.1	817.9	820.2	824.4
850.0	17.5°	837.2	825.9	813.4	812.7	821.0	825.5	828.1	828.9	829.6	834.1
877.5	20°	863.9	851.5	833.8	832.3	834.1	833.4	833.0	832.3	833.4	839.0
905.7	22.5°	890.3	876.0	851.5	844.7	839.4	832.3	831.9	831.5	832.3	837.9
936.3	25°	921.2	903.8	871.1	850.7	833.0	823.2	824.4	824.7	825.5	830.0
967.9	27.5°	954.7	935.5	889.2	848.8	816.8	810.0	808.2	809.3	811.9	819.1
999.5	30°	988.2	965.6	905.7	841.3	796.5	787.1	781.0	783.7	792.0	799.1
1027.1	32.5°	1018.8	996.2	918.9	824.7	770.5	755.8	747.9	751.3	759.6	762.2
1057.6	35°	1054.6	1028.9	924.6	798.4	742.2	719.6	709.1	704.2	708.3	705.7
1093.4	37.5°	1094.5	1067.7	923.8	763.7	709.1	683.1	668.4	649.9	641.2	632.2
1146.1	40°	1153.6	1115.2	914.8	721.9	668.0	644.3	617.9	586.6	567.0	549.3
1231.3	42.5°	1234.3	1181.1	898.2	675.9	621.7	599.4	563.6	527.1	496.2	466.8
1360.5	45°	1354.5	1267.4	877.5	626.9	571.5	549.7	510.9	469.8	434.8	397.1
1544.0	47.5°	1527.8	1383.5	857.9	571.2	518.8	498.8	463.8	425.7	384.3	347.8
1809.2	50°	1765.9	1550.0	839.8	516.9	466.8	451.7	423.9	385.0	343.2	313.8
2120.0	52.5°	2068.8	1776.4	832.3	464.5	418.2	412.6	390.3	354.2	314.6	289.7
2482.5	55°	2416.5	2047.3	832.3	414.4	375.6	377.5	362.1	328.5	294.3	272.0
2856.2	57.5°	2771.5	2321.6	817.2	368.1	339.5	347.4	337.6	308.2	277.3	254.3
3249.2	60°	3098.5	2551.4	756.2	325.9	307.4	319.9	313.5	288.2	250.5	231.3
3577.7	62.5°	3349.8	2681.0	638.6	292.4	281.1	295.4	292.0	261.8	245.6	237.7
3847.5	65°	3475.6	2659.9	488.3	262.6	258.8	281.1	273.9	272.8	260.0	250.9
3935.3	67.5°	3398.4	2478.3	354.2	240.8	246.0	267.9	295.4	299.9	276.2	258.5
3688.1	70°	3059.7	2149.8	263.7	220.0	229.8	268.3	336.8	313.8	270.9	250.2
2958.0	72.5°	2327.6	1603.1	204.6	198.2	208.7	270.1	355.3	307.4	255.8	276.5
1842.7	75°	1331.1	880.1	164.3	171.4	182.4	252.4	345.9	290.9	244.1	253.9
730.2	77.5°	507.5	338.3	135.6	145.1	146.6	220.4	330.8	289.7	232.5	226.8
218.9	80°	175.9	132.2	112.3	115.3	113.4	195.9	317.2	252.1	190.3	170.3
90.4	82.5°	72.0	65.9	88.9	85.1	80.6	152.2	256.2	206.1	155.6	137.5
43.7	85°	31.3	41.8	58.8	51.6	46.7	105.5	205.3	174.4	131.5	113.4
14.3	87.5°	6.4	15.8	24.9	23.4	24.1	70.5	145.8	124.0	93.1	69.7
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>
721.5
719.6
733.6
757.3
784.0
808.9
825.9
835.7
841.3
841.7
836.0
826.2
807.0
771.6
714.0
637.9
550.4
464.2
392.6
343.6
312.0
287.8
269.8
250.5
228.3
235.1
247.9
255.4
246.8
274.3
253.9
206.8
164.6
136.0
113.0
54.6
0.0

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