

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: P946257

Luminaire Tested: **GALN-SB1D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946257
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-SB1D-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7067 lumens
Efficiency: N/A
Efficacy: 88.8 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

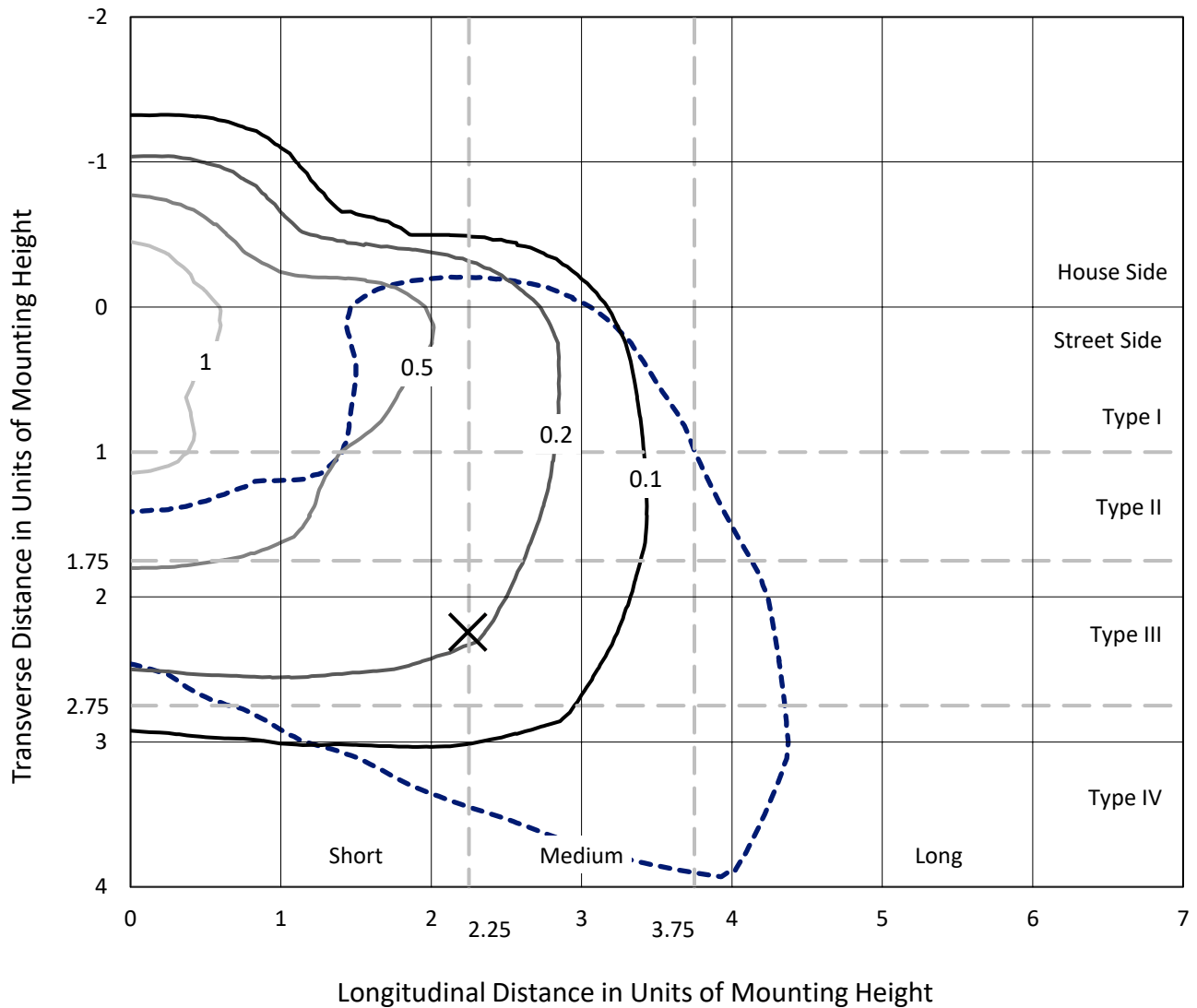
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

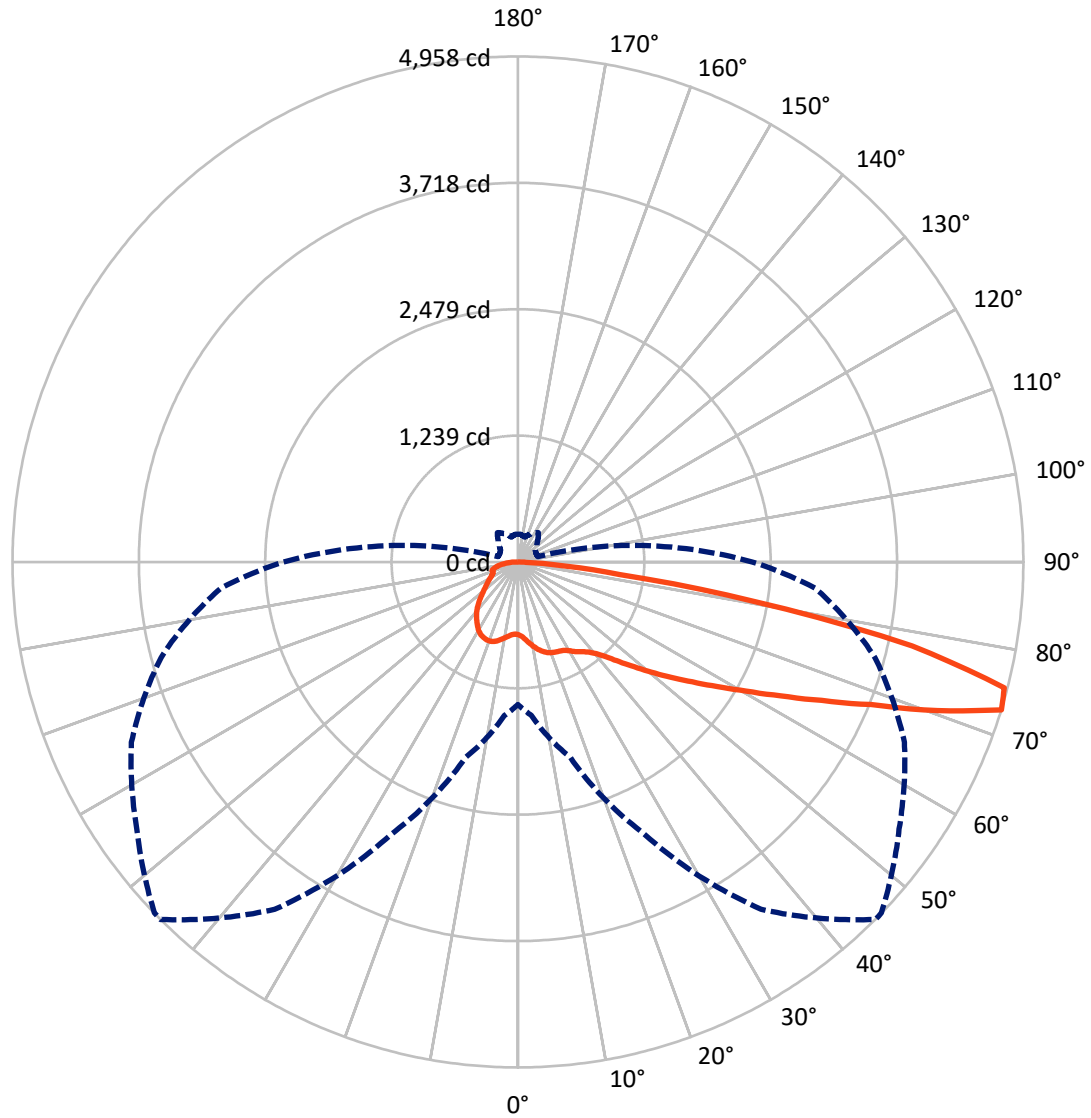
✕ Max cd
 - - - 1/2 Max cd



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	1597.6	0.0	1597.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5469.4	0.0	5469.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	7067.0	0.0	7067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.0
10°-20°	241.9	3.4
20°-30°	420.9	6.0
30°-40°	603.3	8.5
40°-50°	849.5	12.0
50°-60°	1301.2	18.4
60°-70°	1885.0	26.7
70°-80°	1505.3	21.3
80°-90°	187.5	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°	7067.0	100.0
0°-180°	7067.0	100.0

Coefficient of Utilization



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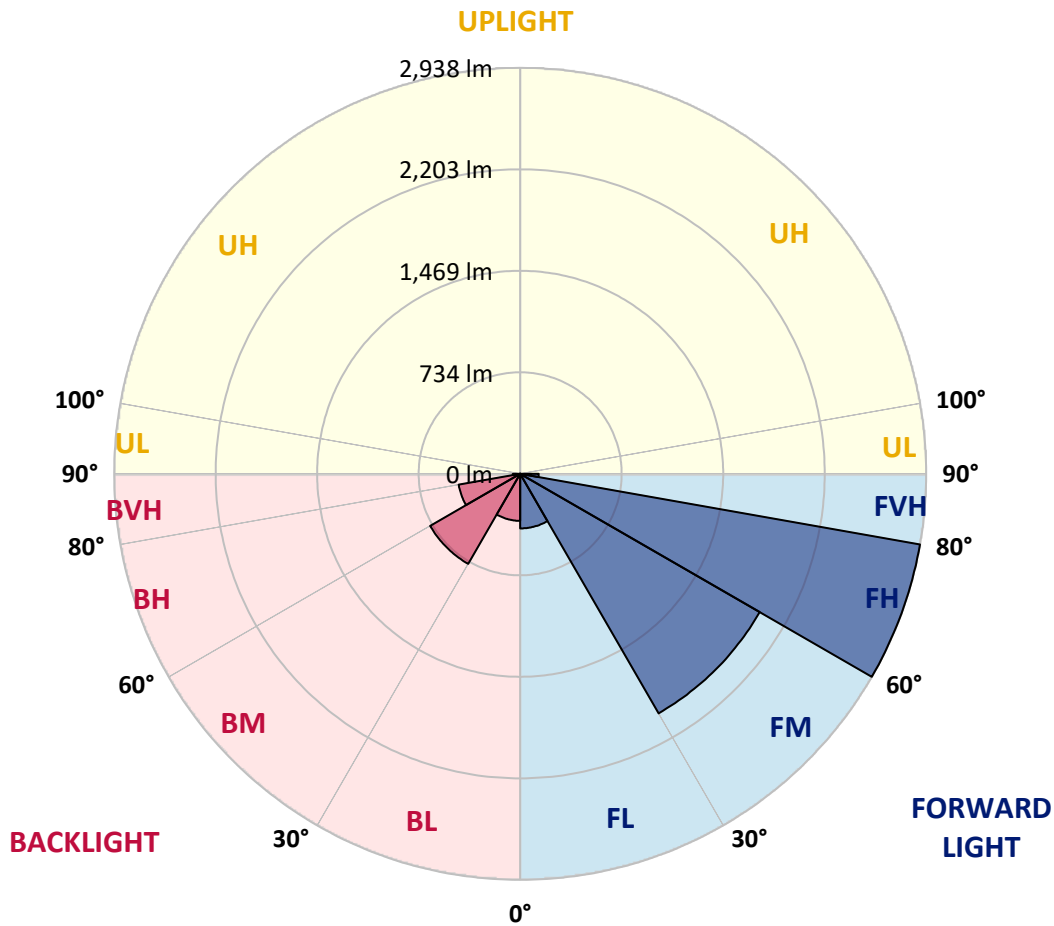
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.2	5.6			
FM (30°-60°)	2001.7	28.3			
FH (60°-80°)	2938.0	41.6			G2/5000
FVH (80°-90°)	134.5	1.9			G2/225
BL (0°-30°)	340.1	4.8	B1/500		
BM (30°-60°)	752.2	10.6	B1/1000		
BH (60°-80°)	452.2	6.4	B1/500		G1/500
BVH (80°-90°)	53.0	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°	712.9	712.9	712.9	712.9	712.9	712.9	712.9	712.9	712.9	712.9
2.5°	740.8	745.7	741.2	737.1	735.3	730.4	730.0	727.1	725.2	720.0
5°	792.6	798.9	791.5	783.3	775.8	763.9	762.4	753.9	744.2	733.0
7.5°	851.0	856.6	848.1	835.8	822.7	803.0	802.6	787.0	771.7	752.8
10°	902.0	909.5	897.9	881.2	864.8	842.5	839.9	822.0	802.6	778.1
12.5°	947.1	952.3	941.1	920.7	901.7	879.3	876.0	856.3	834.7	806.7
15°	982.8	989.5	974.6	952.7	932.6	910.6	907.6	889.8	868.2	838.8
17.5°	1006.3	1011.9	996.6	972.0	952.7	934.4	932.2	917.3	898.3	868.5
20°	1015.2	1021.2	1005.2	980.2	962.4	948.2	947.1	936.3	923.3	896.1
22.5°	1024.2	1029.7	1008.9	982.8	967.2	958.3	957.9	950.8	945.6	923.3
25°	1060.3	1061.8	1033.8	996.2	973.9	966.1	965.7	965.3	967.6	950.1
27.5°	1091.5	1091.2	1067.3	1032.0	997.3	981.0	980.6	984.3	991.4	976.9
30°	1137.3	1133.2	1104.9	1068.1	1036.4	1011.1	1008.9	1005.5	1011.1	999.6
32.5°	1234.5	1221.5	1175.7	1110.1	1068.8	1049.5	1046.5	1025.6	1027.9	1020.8
35°	1373.7	1356.6	1295.5	1189.8	1109.0	1081.5	1080.0	1053.6	1049.1	1042.8
37.5°	1539.4	1518.2	1447.1	1305.2	1178.3	1118.7	1116.5	1092.7	1074.4	1067.7
40°	1705.8	1679.0	1620.2	1445.9	1280.3	1180.9	1173.8	1137.7	1116.9	1105.7
42.5°	1867.4	1845.0	1794.8	1603.8	1406.1	1271.7	1256.1	1194.3	1178.6	1168.2
45°	2010.3	1990.2	1953.4	1772.4	1553.5	1395.3	1380.1	1279.2	1274.3	1274.3
47.5°	2126.5	2122.0	2082.9	1944.4	1727.4	1536.0	1509.6	1397.2	1410.2	1430.3
50°	2255.3	2243.0	2201.3	2113.8	1931.8	1697.2	1675.6	1542.0	1590.8	1645.9
52.5°	2373.7	2380.4	2333.8	2290.3	2162.6	1877.1	1839.1	1712.9	1818.2	1909.4
55°	2495.4	2495.8	2482.8	2476.8	2404.6	2075.9	2034.2	1918.4	2085.9	2199.1
57.5°	2609.7	2610.5	2629.8	2682.3	2685.3	2305.2	2257.9	2170.8	2383.4	2498.8
60°	2711.7	2716.9	2769.8	2892.6	2932.1	2568.0	2523.3	2469.0	2690.9	2807.0
62.5°	2746.0	2764.9	2882.6	3057.2	3175.9	2890.4	2846.5	2814.1	3014.0	3122.0
65°	2687.9	2731.4	2958.9	3193.1	3426.9	3273.5	3229.9	3194.6	3349.8	3451.4
67.5°	2545.3	2601.5	2954.4	3335.7	3731.4	3734.4	3693.8	3610.8	3709.8	3748.9
70°	2169.7	2253.8	2694.2	3388.9	4081.0	4364.7	4325.6	4111.9	4069.1	3879.9
72.5°	1397.9	1511.1	1983.9	2950.7	4158.8	4957.7	4955.5	4564.2	4182.6	3625.3
75°	510.0	579.3	921.8	1852.1	3490.9	4927.5	4942.1	4486.8	3818.1	2800.3
77.5°	185.8	203.3	300.8	711.8	2147.0	3953.6	3983.8	3587.0	2717.7	1405.4
80°	97.5	107.2	154.1	276.2	919.9	2348.0	2395.3	2131.7	1277.3	423.3
82.5°	54.0	58.4	86.4	150.0	414.4	1004.0	1032.3	842.1	449.3	179.4
85°	29.0	30.9	40.6	81.9	202.5	348.1	355.9	251.7	179.1	105.4
87.5°	8.6	10.4	13.4	26.1	79.3	78.2	80.0	49.9	70.7	53.2
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°
712.9	0°	712.9	712.9	712.9	712.9	712.9	712.9	712.9	712.9	712.9	712.9
718.5	2.5°	716.3	715.2	711.1	709.2	707.0	706.6	708.5	708.8	709.2	709.6
726.7	5°	723.0	719.3	715.5	713.3	714.0	714.4	718.1	720.7	722.6	724.1
742.0	7.5°	736.0	733.0	726.7	726.3	727.4	730.8	735.6	741.6	744.9	747.5
761.7	10°	755.4	749.8	742.3	743.4	745.7	750.5	760.6	765.4	771.0	775.8
785.9	12.5°	775.1	770.3	761.7	762.4	766.2	774.7	784.4	790.4	794.1	797.8
812.0	15°	800.8	792.2	782.9	782.9	789.6	798.9	803.4	808.2	810.5	814.6
839.9	17.5°	827.2	816.0	803.8	803.0	811.2	815.7	818.3	819.0	819.8	824.2
867.0	20°	853.6	841.4	823.9	822.4	824.2	823.5	823.1	822.4	823.5	829.1
895.0	22.5°	879.7	865.6	841.4	834.7	829.4	822.4	822.0	821.6	822.4	828.0
925.1	25°	910.2	893.1	860.7	840.6	823.1	813.4	814.6	814.9	815.7	820.1
956.4	27.5°	943.4	924.4	878.6	838.8	807.1	800.4	798.5	799.7	802.3	809.3
987.7	30°	976.5	954.2	895.0	831.3	787.0	777.7	771.7	774.3	782.5	789.6
1014.8	32.5°	1006.7	984.3	908.0	814.9	761.3	746.8	739.0	742.3	750.5	753.1
1045.0	35°	1042.0	1016.7	913.6	788.9	733.4	711.1	700.6	695.8	699.9	697.3
1080.4	37.5°	1081.5	1055.1	912.8	754.6	700.6	674.9	660.4	642.2	633.6	624.7
1132.5	40°	1139.9	1102.0	903.9	713.3	660.1	636.6	610.5	579.6	560.3	542.8
1216.6	42.5°	1219.6	1167.1	887.5	667.9	614.3	592.3	556.9	520.8	490.3	461.3
1344.3	45°	1338.4	1252.4	867.0	619.5	564.8	543.2	504.8	464.2	429.6	392.4
1525.6	47.5°	1509.6	1367.0	847.7	564.4	512.6	492.9	458.3	420.7	379.7	343.6
1787.7	50°	1744.9	1531.6	829.8	510.8	461.3	446.4	418.8	380.5	339.2	310.1
2094.8	52.5°	2044.2	1755.3	822.4	459.0	413.2	407.7	385.7	349.9	310.9	286.3
2453.0	55°	2387.8	2023.0	822.4	409.5	371.2	373.0	357.8	324.6	290.8	268.8
2822.3	57.5°	2738.5	2294.0	807.5	363.7	335.4	343.2	333.6	304.5	274.0	251.3
3210.6	60°	3061.7	2521.1	747.2	322.0	303.8	316.1	309.7	284.8	247.6	228.6
3535.2	62.5°	3310.0	2649.2	631.0	288.9	277.7	291.9	288.5	258.7	242.7	234.9
3801.8	65°	3434.3	2628.3	482.5	259.5	255.8	277.7	270.7	269.5	256.9	247.9
3888.5	67.5°	3358.0	2448.9	349.9	237.9	243.1	264.7	291.9	296.3	272.9	255.4
3644.3	70°	3023.3	2124.2	260.6	217.4	227.1	265.1	332.8	310.1	267.7	247.2
2922.8	72.5°	2300.0	1584.1	202.1	195.8	206.2	266.9	351.1	303.8	252.8	273.3
1820.8	75°	1315.3	869.7	162.3	169.4	180.2	249.4	341.8	287.4	241.2	250.9
721.5	77.5°	501.5	334.3	134.0	143.3	144.8	217.8	326.9	286.3	229.7	224.1
216.3	80°	173.9	130.7	110.9	113.9	112.1	193.6	313.5	249.1	188.0	168.3
89.3	82.5°	71.1	65.1	87.9	84.1	79.7	150.4	253.2	203.6	153.8	135.9
43.2	85°	30.9	41.3	58.1	51.0	46.2	104.2	202.9	172.4	129.9	112.1
14.1	87.5°	6.3	15.6	24.6	23.1	23.8	69.6	144.1	122.5	92.0	68.9
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>
712.9
711.1
724.8
748.3
774.7
799.3
816.0
825.7
831.3
831.7
826.1
816.4
797.4
762.4
705.5
630.3
543.9
458.7
387.9
339.5
308.3
284.4
266.6
247.6
225.6
232.3
245.0
252.4
243.8
271.0
250.9
204.4
162.7
134.4
111.7
54.0
0.0

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