

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: P945270

Luminaire Tested: **GALN-SB1B-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945270
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5622 lumens
Efficiency: N/A
Efficacy: 141.3 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

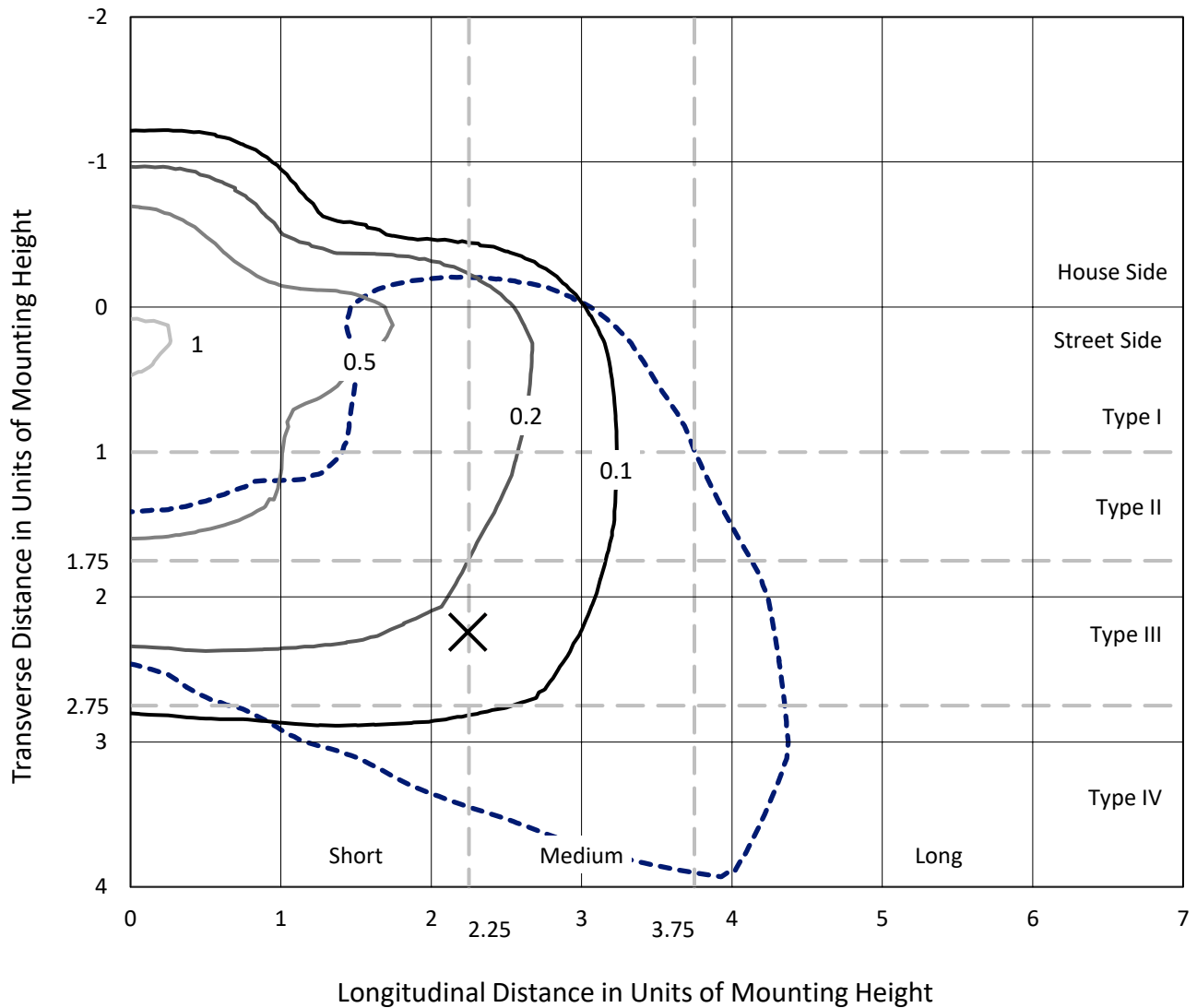
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

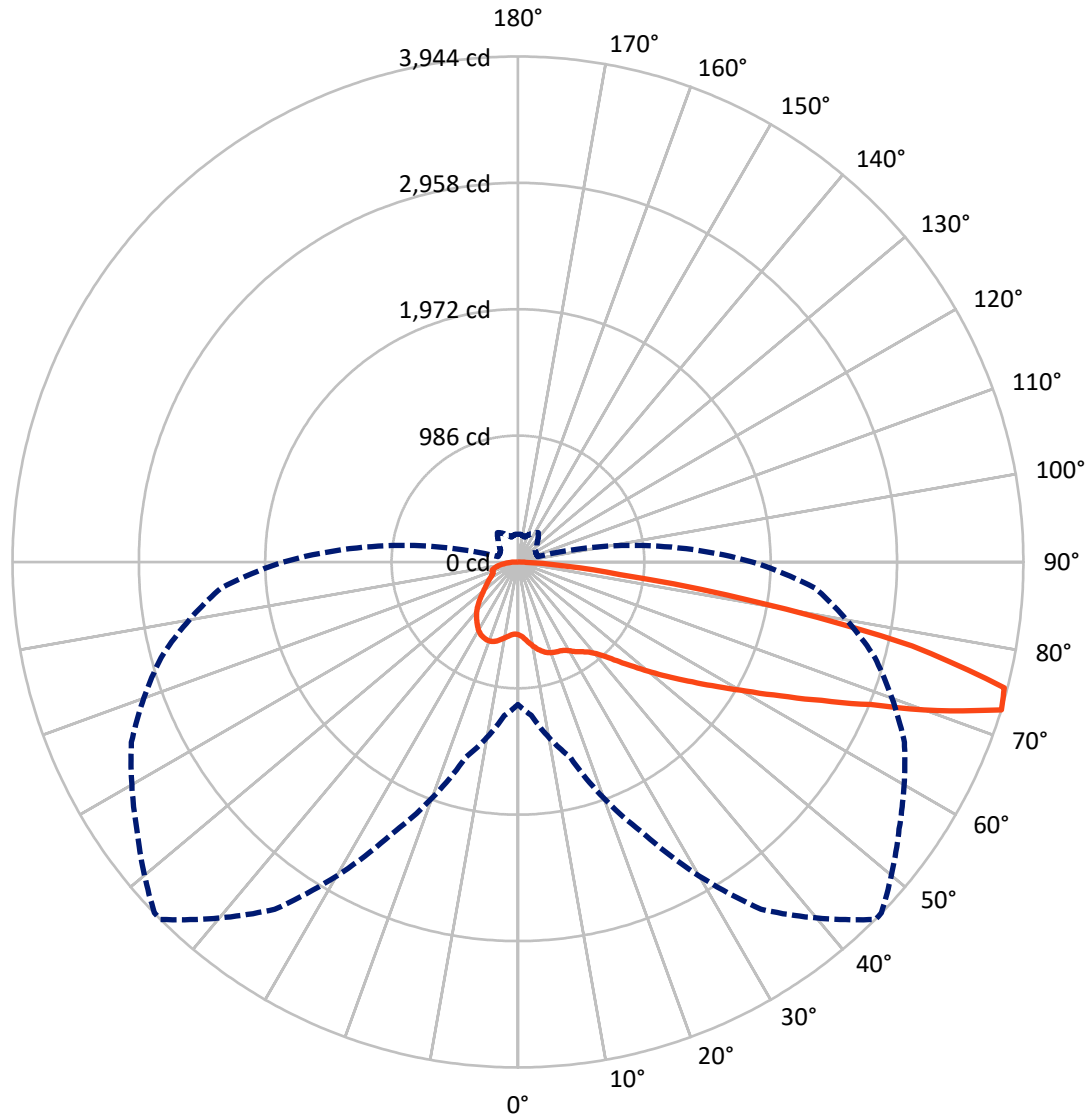
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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
House Side	Lumens	1270.9	0.0	1270.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4351.1	0.0	4351.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	5622.0	0.0	5622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.0
10°-20°	192.5	3.4
20°-30°	334.8	6.0
30°-40°	480.0	8.5
40°-50°	675.8	12.0
50°-60°	1035.1	18.4
60°-70°	1499.5	26.7
70°-80°	1197.5	21.3
80°-90°	149.1	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°	5622.0	100.0
0°-180°	5622.0	100.0

Coefficient of Utilization



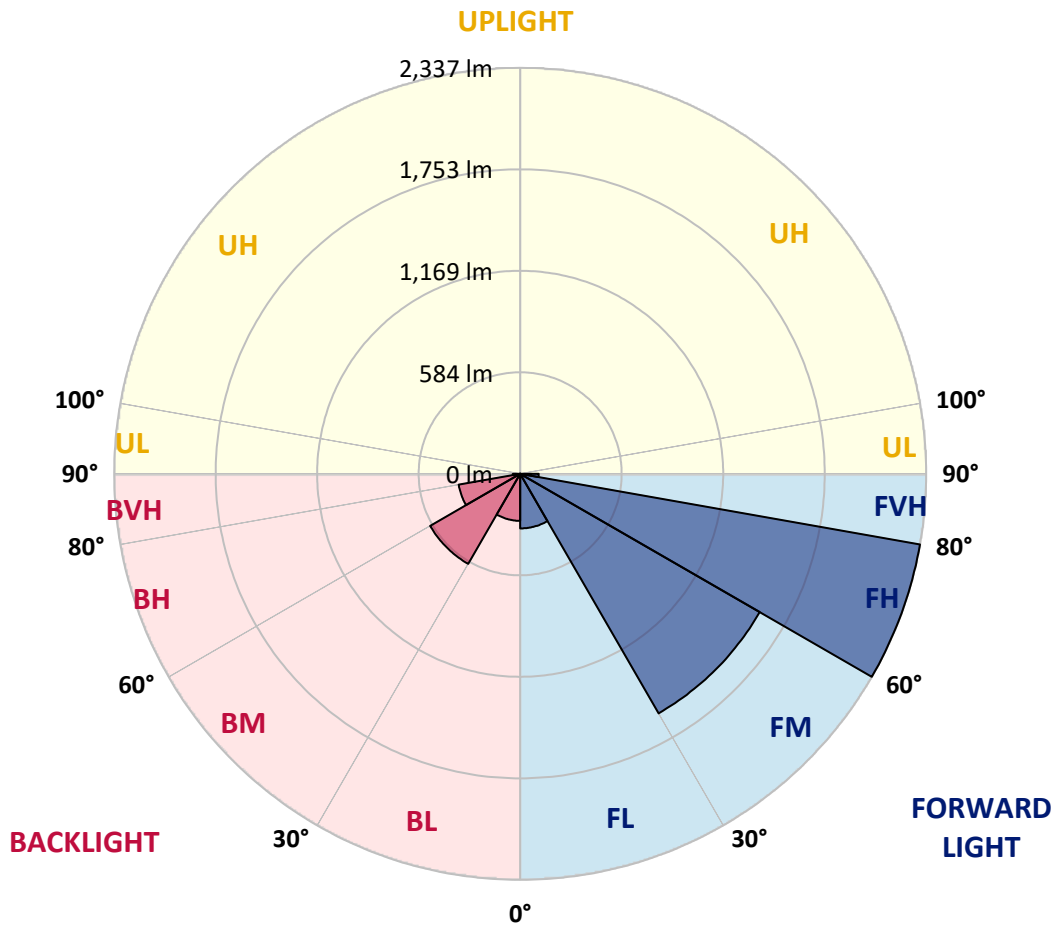
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.4	5.6			
FM (30°-60°)	1592.4	28.3			
FH (60°-80°)	2337.2	41.6			G2/5000
FVH (80°-90°)	107.0	1.9			G2/225
BL (0°-30°)	270.6	4.8	B1/500		
BM (30°-60°)	598.4	10.6	B1/1000		
BH (60°-80°)	359.8	6.4	B1/500		G1/500
BVH (80°-90°)	42.1	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°	567.2	567.2	567.2	567.2	567.2	567.2	567.2	567.2	567.2	567.2
2.5°	589.4	593.2	589.7	586.4	584.9	581.1	580.8	578.4	576.9	572.8
5°	630.5	635.6	629.6	623.1	617.2	607.7	606.5	599.7	592.0	583.1
7.5°	677.0	681.5	674.7	664.9	654.5	638.8	638.5	626.1	613.9	598.8
10°	717.6	723.5	714.3	701.0	688.0	670.2	668.1	653.9	638.5	619.0
12.5°	753.4	757.6	748.7	732.4	717.3	699.5	696.9	681.2	664.0	641.8
15°	781.9	787.2	775.4	757.9	741.9	724.4	722.0	707.8	690.6	667.3
17.5°	800.5	805.0	792.8	773.3	757.9	743.4	741.6	729.7	714.6	690.9
20°	807.6	812.4	799.6	779.8	765.6	754.3	753.4	744.8	734.5	712.9
22.5°	814.7	819.2	802.6	781.9	769.4	762.3	762.0	756.4	752.3	734.5
25°	843.5	844.7	822.4	792.5	774.8	768.5	768.2	767.9	769.7	755.8
27.5°	868.3	868.1	849.1	821.0	793.4	780.4	780.1	783.1	788.7	777.1
30°	904.8	901.5	879.0	849.7	824.5	804.4	802.6	799.9	804.4	795.2
32.5°	982.1	971.7	935.3	883.2	850.3	834.9	832.5	815.9	817.7	812.1
35°	1092.8	1079.2	1030.6	946.5	882.3	860.4	859.2	838.1	834.6	829.5
37.5°	1224.6	1207.7	1151.2	1038.3	937.4	890.0	888.2	869.2	854.7	849.4
40°	1357.0	1335.7	1288.9	1150.3	1018.5	939.4	933.8	905.1	888.5	879.6
42.5°	1485.5	1467.8	1427.8	1275.9	1118.6	1011.7	999.3	950.1	937.6	929.4
45°	1599.3	1583.3	1554.0	1410.0	1235.9	1110.0	1097.9	1017.6	1013.8	1013.8
47.5°	1691.7	1688.1	1657.0	1546.9	1374.2	1222.0	1200.9	1111.5	1121.9	1137.9
50°	1794.1	1784.4	1751.2	1681.6	1536.8	1350.2	1333.0	1226.7	1265.5	1309.3
52.5°	1888.3	1893.7	1856.6	1822.0	1720.4	1493.2	1463.0	1362.6	1446.5	1519.0
55°	1985.2	1985.5	1975.1	1970.4	1912.9	1651.4	1618.2	1526.1	1659.4	1749.4
57.5°	2076.1	2076.7	2092.1	2133.8	2136.2	1833.8	1796.2	1726.9	1896.0	1987.8
60°	2157.2	2161.4	2203.4	2301.2	2332.6	2042.9	2007.4	1964.1	2140.7	2233.1
62.5°	2184.5	2199.6	2293.2	2432.1	2526.6	2299.4	2264.5	2238.7	2397.7	2483.6
65°	2138.3	2172.9	2353.9	2540.2	2726.2	2604.2	2569.5	2541.4	2664.9	2745.7
67.5°	2024.9	2069.6	2350.3	2653.6	2968.4	2970.8	2938.5	2872.5	2951.3	2982.4
70°	1726.0	1793.0	2143.3	2696.0	3246.5	3472.2	3441.1	3271.1	3237.1	3086.6
72.5°	1112.1	1202.1	1578.2	2347.4	3308.4	3944.0	3942.2	3630.9	3327.4	2884.0
75°	405.7	460.8	733.3	1473.4	2777.1	3920.0	3931.6	3569.3	3037.4	2227.7
77.5°	147.8	161.7	239.3	566.3	1708.0	3145.2	3169.2	2853.5	2162.0	1118.0
80°	77.6	85.3	122.6	219.8	731.8	1867.9	1905.5	1695.8	1016.1	336.7
82.5°	42.9	46.5	68.7	119.4	329.6	798.7	821.3	669.9	357.5	142.8
85°	23.1	24.6	32.3	65.2	161.1	276.9	283.1	200.2	142.5	83.8
87.5°	6.8	8.3	10.7	20.7	63.1	62.2	63.7	39.7	56.3	42.4
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°
567.2	0°	567.2	567.2	567.2	567.2	567.2	567.2	567.2	567.2	567.2	567.2
571.6	2.5°	569.8	568.9	565.7	564.2	562.4	562.1	563.6	563.9	564.2	564.5
578.1	5°	575.1	572.2	569.2	567.4	568.0	568.3	571.3	573.4	574.9	576.0
590.3	7.5°	585.5	583.1	578.1	577.8	578.7	581.4	585.2	590.0	592.6	594.7
605.9	10°	600.9	596.5	590.5	591.4	593.2	597.1	605.1	608.9	613.4	617.2
625.2	12.5°	616.6	612.8	605.9	606.5	609.5	616.3	624.0	628.8	631.7	634.7
645.9	15°	637.0	630.2	622.8	622.8	628.2	635.6	639.1	643.0	644.7	648.0
668.1	17.5°	658.1	649.2	639.4	638.8	645.3	648.9	651.0	651.6	652.1	655.7
689.8	20°	679.1	669.3	655.4	654.2	655.7	655.1	654.8	654.2	655.1	659.6
712.0	22.5°	699.8	688.6	669.3	664.0	659.8	654.2	653.9	653.6	654.2	658.7
736.0	25°	724.1	710.5	684.7	668.7	654.8	647.1	648.0	648.3	648.9	652.4
760.8	27.5°	750.5	735.4	698.9	667.3	642.1	636.7	635.3	636.2	638.2	643.9
785.7	30°	776.8	759.1	712.0	661.3	626.1	618.7	613.9	616.0	622.5	628.2
807.3	32.5°	800.8	783.1	722.3	648.3	605.7	594.1	587.9	590.5	597.1	599.1
831.3	35°	829.0	808.8	726.8	627.6	583.4	565.7	557.4	553.5	556.8	554.7
859.5	37.5°	860.4	839.3	726.2	600.3	557.4	536.9	525.4	510.9	504.1	497.0
900.9	40°	906.8	876.6	719.1	567.4	525.1	506.4	485.7	461.1	445.7	431.8
967.9	42.5°	970.2	928.5	706.1	531.3	488.7	471.2	443.1	414.3	390.0	366.9
1069.4	45°	1064.7	996.3	689.8	492.8	449.3	432.1	401.6	369.3	341.8	312.2
1213.7	47.5°	1200.9	1087.5	674.4	449.0	407.8	392.1	364.6	334.7	302.1	273.4
1422.2	50°	1388.1	1218.4	660.1	406.3	366.9	355.1	333.2	302.7	269.8	246.7
1666.5	52.5°	1626.2	1396.4	654.2	365.2	328.7	324.3	306.8	278.4	247.3	227.7
1951.4	55°	1899.6	1609.3	654.2	325.8	295.3	296.8	284.6	258.3	231.3	213.8
2245.2	57.5°	2178.6	1825.0	642.4	289.4	266.8	273.1	265.4	242.3	218.0	199.9
2554.1	60°	2435.6	2005.6	594.4	256.2	241.7	251.4	246.4	226.6	196.9	181.8
2812.4	62.5°	2633.2	2107.5	502.0	229.8	220.9	232.2	229.5	205.8	193.1	186.9
3024.4	65°	2732.1	2090.9	383.8	206.4	203.5	220.9	215.3	214.4	204.4	197.2
3093.4	67.5°	2671.4	1948.2	278.4	189.2	193.4	210.6	232.2	235.7	217.1	203.2
2899.1	70°	2405.1	1689.9	207.3	173.0	180.7	210.9	264.8	246.7	212.9	196.7
2325.2	72.5°	1829.7	1260.2	160.8	155.8	164.1	212.3	279.3	241.7	201.1	217.4
1448.5	75°	1046.3	691.8	129.1	134.8	143.3	198.4	271.9	228.6	191.9	199.6
574.0	77.5°	398.9	266.0	106.6	114.0	115.2	173.3	260.0	227.7	182.7	178.3
172.1	80°	138.3	104.0	88.3	90.6	89.1	154.0	249.4	198.1	149.6	133.9
71.1	82.5°	56.6	51.8	69.9	66.9	63.4	119.6	201.4	162.0	122.3	108.1
34.4	85°	24.6	32.9	46.2	40.6	36.7	82.9	161.4	137.1	103.4	89.1
11.3	87.5°	5.0	12.4	19.5	18.4	19.0	55.4	114.6	97.4	73.2	54.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
567.2
565.7
576.6
595.3
616.3
635.9
649.2
656.9
661.3
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657.2
649.5
634.4
606.5
561.2
501.4
432.7
364.9
308.6
270.1
245.2
226.3
212.1
196.9
179.5
184.8
194.9
200.8
194.0
215.6
199.6
162.6
129.4
106.9
88.8
42.9
0.0

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