

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: P944932

Luminaire Tested: **GALN-SB1A-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4874 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

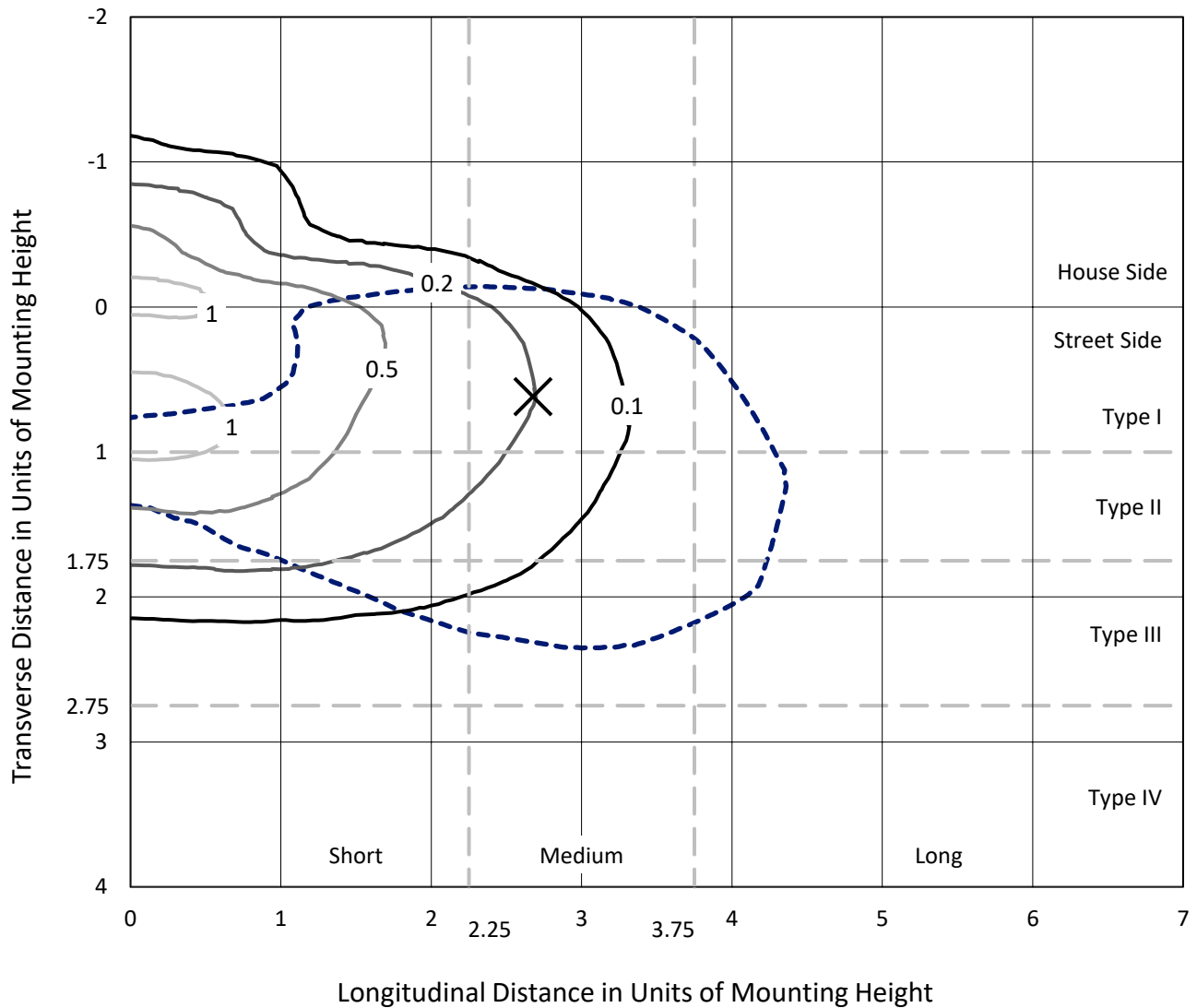
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

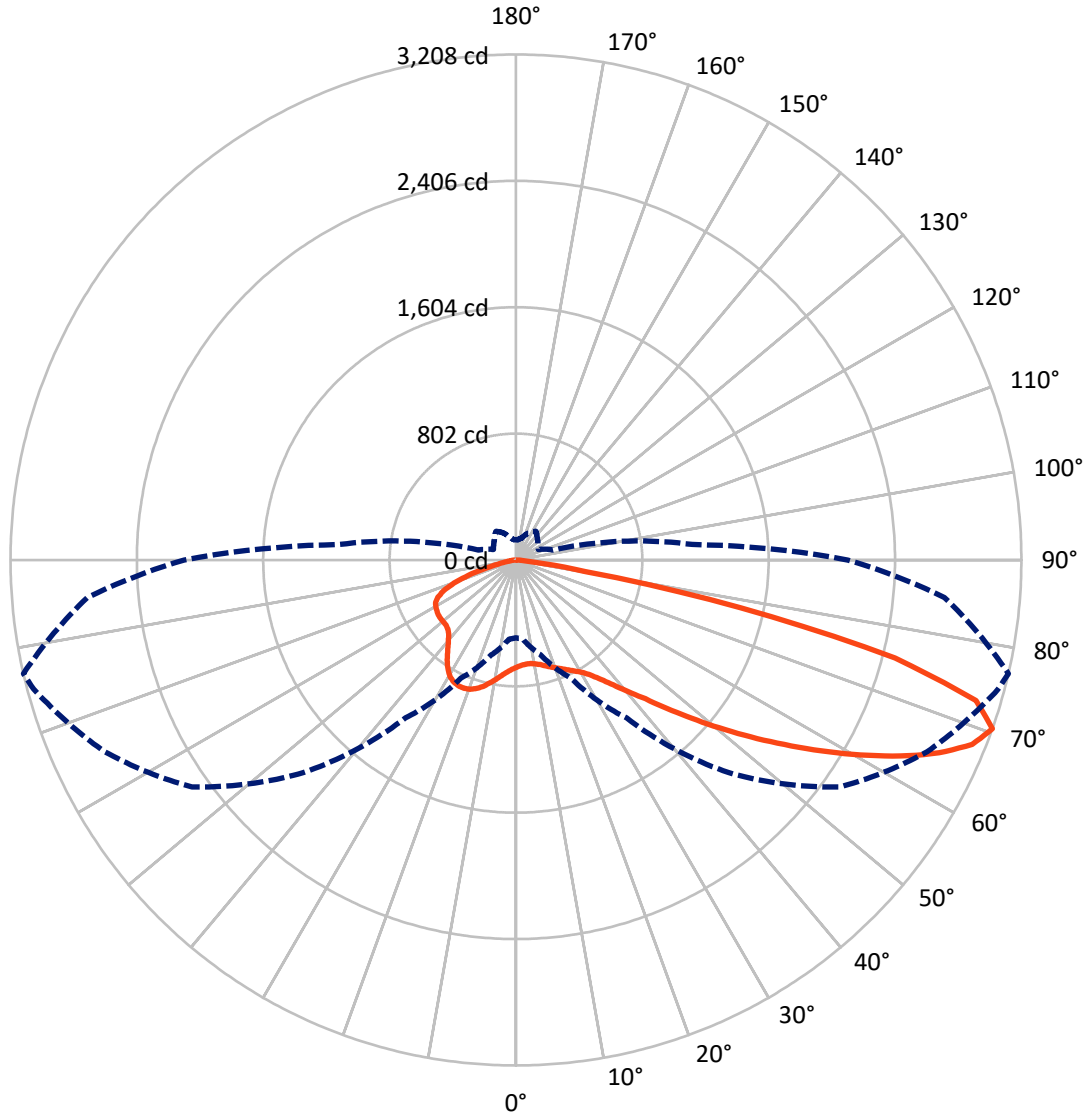
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.3	0.0	1067.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3806.7	0.0	3806.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	4874.0	0.0	4874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.3
10°-20°	187.2	3.8
20°-30°	320.1	6.6
30°-40°	514.7	10.6
40°-50°	803.6	16.5
50°-60°	1073.4	22.0
60°-70°	1144.1	23.5
70°-80°	704.3	14.5
80°-90°	61.7	1.3
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°	4874.0	100.0
0°-180°	4874.0	100.0

Coefficient of Utilization



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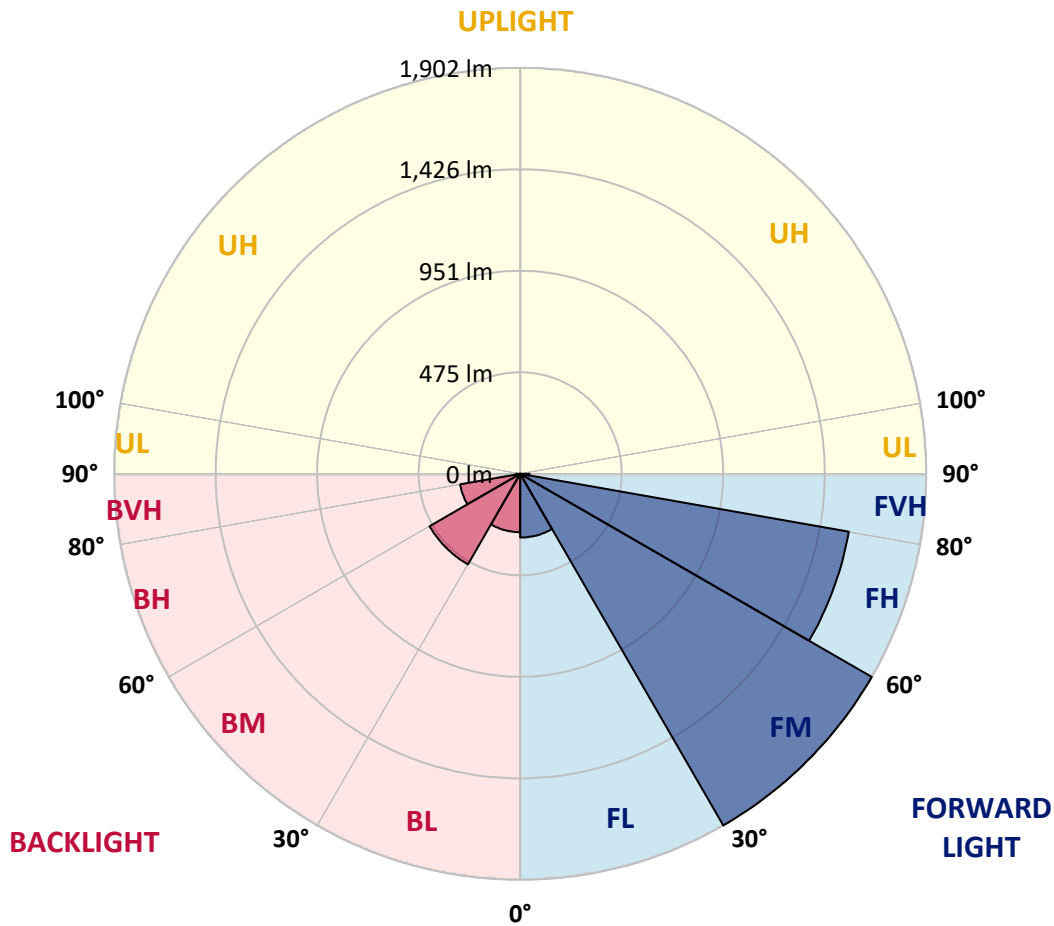
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.6	6.1			
FM (30°-60°)	1901.7	39.0			
FH (60°-80°)	1563.2	32.1			G1/1800
FVH (80°-90°)	43.2	0.9			G1/100
BL (0°-30°)	273.5	5.6	B1/500		
BM (30°-60°)	490.0	10.1	B1/1000		
BH (60°-80°)	285.3	5.9	B1/500		G1/500
BVH (80°-90°)	18.6	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
2.5°	626.8	626.5	629.8	630.8	636.8	641.0	649.0	657.5	668.5	669.7
5°	590.6	590.6	594.3	598.3	606.1	614.6	626.8	641.5	660.5	663.5
7.5°	559.9	561.9	565.1	572.9	581.9	594.1	612.8	633.8	658.7	663.5
10°	535.2	537.4	541.4	547.7	561.1	578.1	602.6	629.5	663.0	670.5
12.5°	527.4	529.7	531.9	536.7	549.2	569.1	598.3	631.5	673.2	680.7
15°	545.4	548.2	546.4	545.2	551.7	569.9	600.3	638.8	686.0	696.7
17.5°	586.9	587.9	583.9	572.1	571.1	580.9	609.8	648.8	701.9	713.7
20°	653.8	652.0	643.8	620.6	607.3	605.3	626.0	663.7	718.4	730.9
22.5°	744.6	742.6	726.1	689.5	660.0	640.5	649.5	683.2	736.9	750.9
25°	857.9	855.2	831.0	781.1	735.4	687.2	681.5	708.9	759.6	772.6
27.5°	990.2	988.0	961.8	895.9	830.0	751.1	721.2	739.1	783.3	798.0
30°	1132.5	1139.0	1092.6	1021.7	938.3	834.5	774.6	776.3	814.0	827.2
32.5°	1299.8	1311.0	1255.1	1165.2	1051.4	925.1	842.0	828.2	858.7	869.7
35°	1465.5	1478.3	1431.8	1332.5	1201.4	1031.9	912.4	887.9	918.1	930.1
37.5°	1608.8	1625.8	1601.8	1515.4	1361.9	1160.7	1004.2	958.0	991.2	1006.2
40°	1721.9	1747.8	1746.1	1692.2	1551.1	1317.0	1120.8	1044.7	1082.1	1098.3
42.5°	1813.7	1836.2	1855.7	1852.9	1748.6	1494.5	1257.8	1157.2	1185.7	1204.4
45°	1877.1	1901.1	1943.0	1988.2	1938.6	1684.4	1414.9	1290.8	1316.8	1345.0
47.5°	1933.8	1961.0	2015.4	2087.1	2099.8	1875.2	1586.8	1446.3	1470.0	1499.2
50°	1938.8	1962.3	2046.6	2148.2	2214.4	2058.4	1771.6	1620.8	1643.0	1674.2
52.5°	1818.2	1855.2	2002.5	2146.5	2267.1	2211.6	1955.0	1802.3	1827.2	1864.7
55°	1411.4	1465.5	1872.9	2079.6	2248.3	2310.7	2129.5	1995.2	2027.2	2066.4
57.5°	1215.7	1239.4	1486.7	1957.8	2163.0	2336.5	2276.8	2190.2	2241.6	2284.5
60°	1092.6	1112.3	1258.6	1768.3	2050.6	2295.8	2390.6	2371.9	2460.8	2511.9
62.5°	960.8	979.5	1112.6	1476.5	1906.9	2228.1	2462.5	2539.6	2685.4	2741.3
65°	830.0	846.0	973.5	1240.6	1724.1	2160.5	2499.7	2684.7	2893.4	2951.3
67.5°	684.2	697.4	818.0	1046.7	1502.0	2067.9	2518.2	2798.8	3074.3	3124.0
70°	493.8	504.0	628.5	827.7	1223.1	1908.6	2510.7	2879.6	3168.2	3207.9
72.5°	233.4	242.6	388.9	537.4	863.9	1598.6	2359.2	2815.5	3072.8	3053.1
75°	124.6	132.5	223.4	294.8	456.3	1095.8	1930.6	2425.3	2580.3	2484.5
77.5°	84.4	90.6	138.3	177.0	208.4	520.2	1240.9	1679.2	1615.5	1457.3
80°	66.9	73.4	113.3	119.8	100.8	188.0	512.7	777.3	558.4	446.6
82.5°	51.4	58.7	95.4	86.9	54.9	77.1	149.3	245.9	143.0	108.8
85°	31.5	39.2	74.9	55.4	31.0	35.2	50.7	68.4	43.7	36.4
87.5°	16.0	22.5	37.9	20.2	14.0	8.2	13.5	13.5	11.5	10.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
680.0	0°	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
676.5	2.5°	682.5	687.5	695.9	703.9	710.2	716.2	722.2	725.4	726.4	730.4
680.2	5°	690.5	699.7	716.2	731.6	741.4	747.4	751.6	754.1	754.6	755.9
690.5	7.5°	705.2	719.9	742.9	758.3	765.6	765.1	763.3	757.1	754.6	752.4
705.4	10°	725.9	745.4	773.6	784.3	779.8	767.8	752.4	734.1	725.6	717.4
725.9	12.5°	751.6	776.3	804.0	803.5	781.3	750.6	714.7	686.7	669.0	656.3
751.1	15°	782.8	811.3	832.5	815.5	766.8	711.7	659.0	622.6	606.6	592.6
776.6	17.5°	815.0	845.5	855.2	811.8	730.4	654.0	594.3	565.6	549.9	542.4
804.0	20°	846.5	876.7	868.7	790.3	675.0	588.6	535.4	519.7	516.5	518.2
830.7	22.5°	879.7	906.6	871.4	748.9	604.3	521.7	492.5	493.0	500.2	505.5
858.7	25°	913.6	931.8	864.2	689.0	528.4	472.5	465.3	473.3	487.5	497.7
890.1	27.5°	946.3	954.3	848.5	614.8	463.3	437.3	438.6	455.1	476.5	490.8
928.3	30°	983.3	974.3	818.3	531.4	418.1	407.1	417.6	436.8	458.3	471.0
976.5	32.5°	1024.9	991.5	770.3	454.3	386.2	382.9	400.1	412.6	422.1	425.9
1040.4	35°	1076.9	1015.7	708.9	400.1	357.5	365.2	381.7	375.4	371.7	369.7
1126.3	37.5°	1144.3	1048.4	637.0	364.9	334.2	352.5	359.2	339.7	325.0	317.8
1230.4	40°	1225.4	1096.3	567.9	337.7	319.5	341.5	329.7	306.3	287.6	277.3
1347.5	42.5°	1315.5	1146.5	509.7	317.3	311.3	332.5	308.0	280.1	249.9	246.6
1487.0	45°	1410.1	1198.2	470.0	301.5	307.3	324.8	295.6	250.4	228.9	242.1
1627.0	47.5°	1504.7	1245.6	446.1	289.8	305.3	316.0	284.6	233.9	218.7	237.9
1777.1	50°	1610.1	1288.0	435.3	281.3	303.0	312.5	268.1	229.7	207.9	220.7
1932.3	52.5°	1714.6	1321.0	427.4	272.8	299.8	309.8	260.1	224.7	195.0	195.7
2088.6	55°	1819.0	1342.5	418.6	261.6	292.6	303.8	259.4	219.2	185.2	181.7
2253.8	57.5°	1930.3	1354.7	407.9	249.1	280.1	288.6	258.6	214.9	182.2	176.5
2422.8	60°	2043.6	1372.7	393.9	233.9	263.4	270.3	256.9	213.4	180.5	170.7
2582.1	62.5°	2145.2	1378.9	377.2	219.4	241.9	252.4	253.1	212.2	175.7	159.0
2714.4	65°	2211.9	1351.9	348.0	202.9	218.7	233.9	245.9	207.9	167.2	150.5
2779.8	67.5°	2209.1	1275.1	302.3	181.7	196.2	213.4	235.4	200.7	157.0	140.0
2730.4	70°	2106.3	1123.3	244.4	157.0	171.5	191.5	221.9	190.0	144.8	128.6
2427.8	72.5°	1806.5	879.2	177.5	128.1	142.8	168.7	204.4	177.0	132.3	118.3
1794.3	75°	1290.5	556.4	120.3	98.4	111.1	143.0	182.7	161.8	120.8	118.8
898.6	77.5°	659.2	265.8	79.6	71.9	77.4	112.8	153.5	144.5	122.6	98.1
255.6	80°	214.4	98.1	50.2	48.9	51.4	75.1	118.8	118.6	92.9	66.6
61.9	82.5°	68.4	42.2	32.7	31.5	30.2	47.2	82.9	93.9	62.7	42.2
22.2	85°	27.2	25.2	19.2	17.7	12.7	22.2	43.4	62.4	46.7	30.5
5.7	87.5°	10.0	10.0	5.2	3.7	2.7	7.5	11.7	18.7	26.7	15.7
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

<u>180°</u>
680.0
732.6
757.8
752.9
714.9
653.3
591.1
544.7
517.5
506.7
500.5
494.2
474.0
427.9
371.7
319.5
278.1
249.9
249.1
246.9
230.2
200.9
184.2
177.2
171.5
159.0
150.5
140.8
130.1
117.6
112.1
87.4
58.9
41.9
31.2
15.5
0.0

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