

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: P945268

Luminaire Tested: **GALN-SB1B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945268
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-SB1B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5783 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

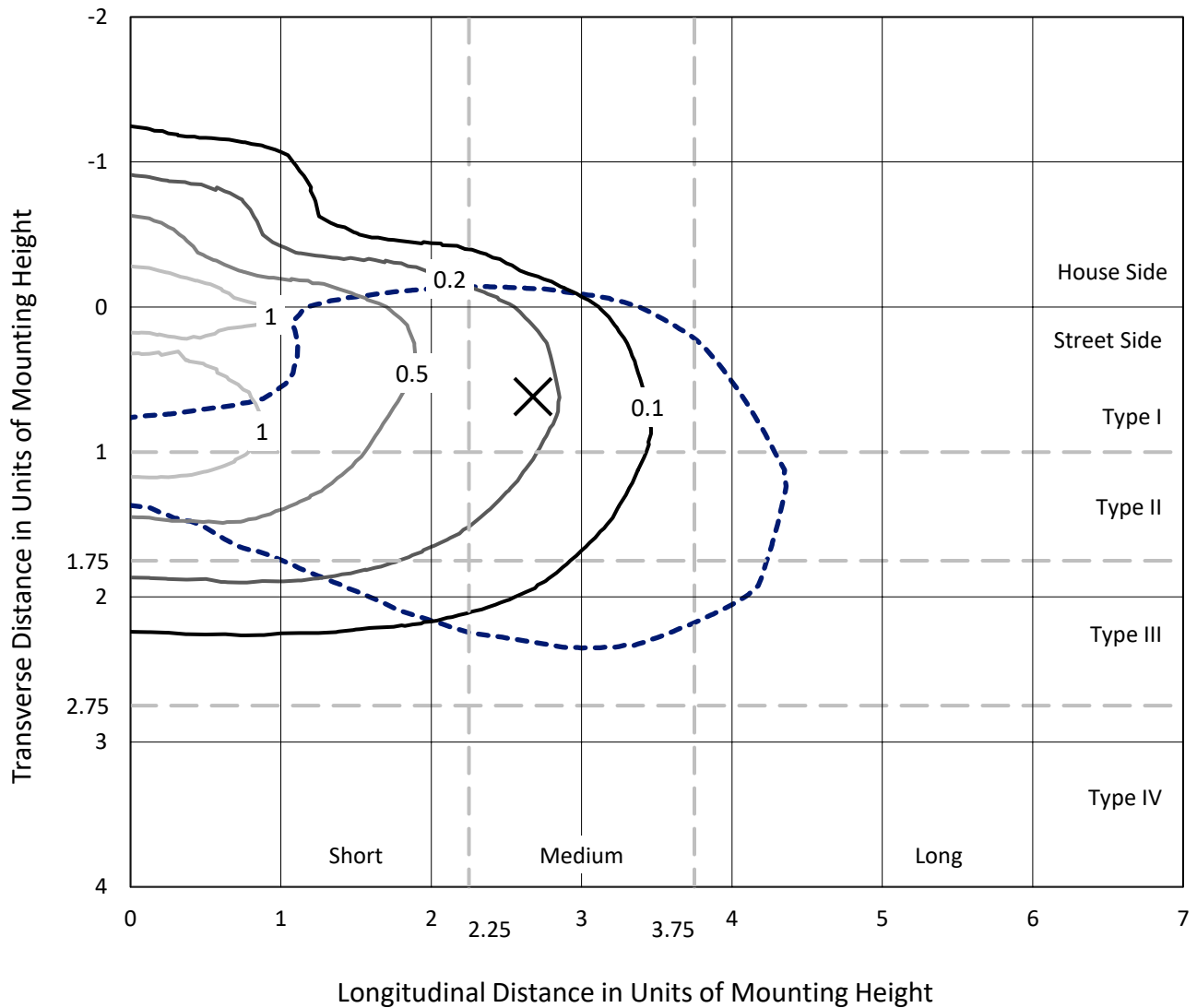
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

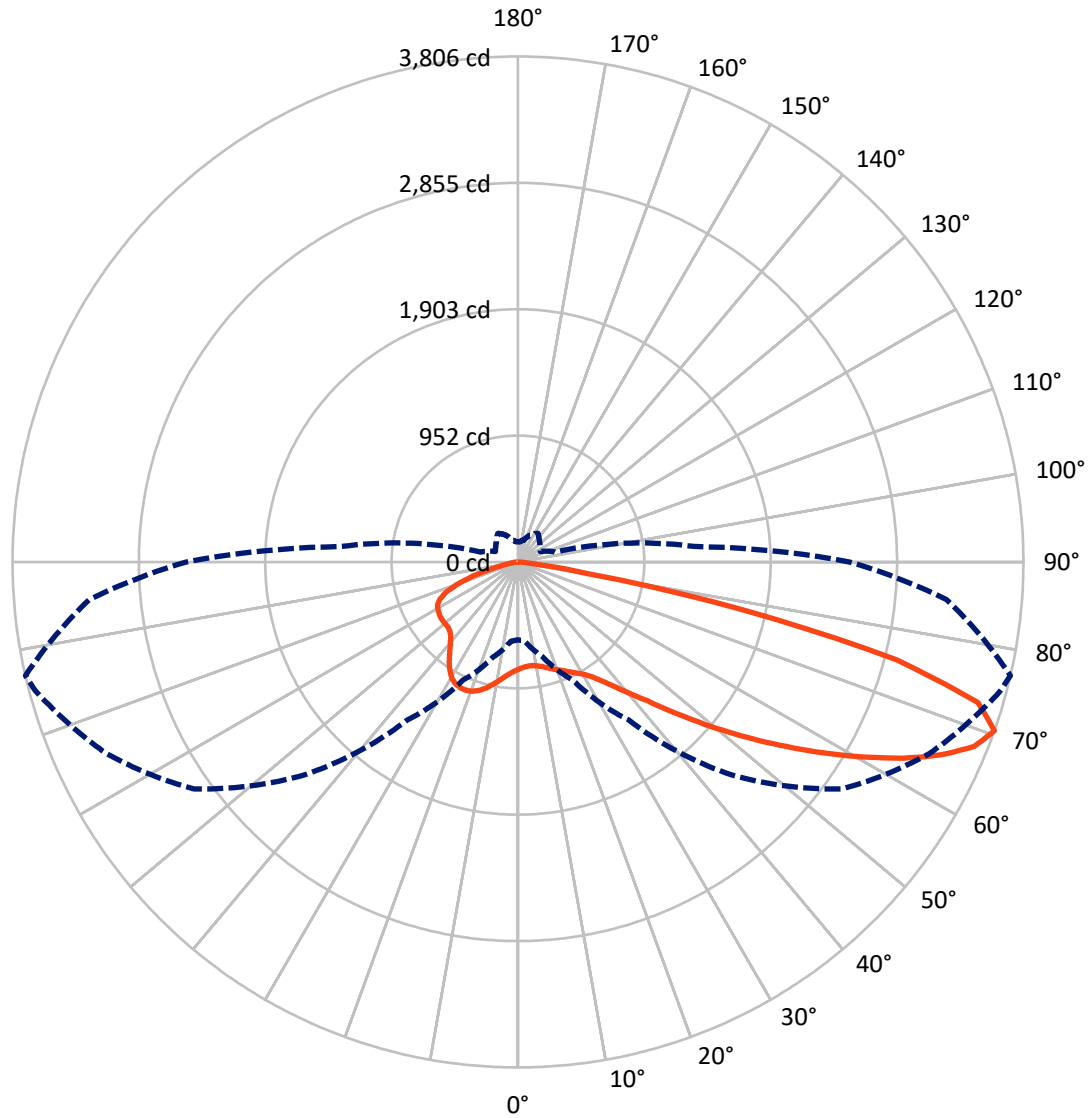
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	1266.4	0.0	1266.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4516.6	0.0	4516.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	5783.0	0.0	5783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.3
10°-20°	222.1	3.8
20°-30°	379.8	6.6
30°-40°	610.7	10.6
40°-50°	953.5	16.5
50°-60°	1273.6	22.0
60°-70°	1357.5	23.5
70°-80°	835.7	14.5
80°-90°	73.2	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°	5783.0	100.0
0°-180°	5783.0	100.0

Coefficient of Utilization



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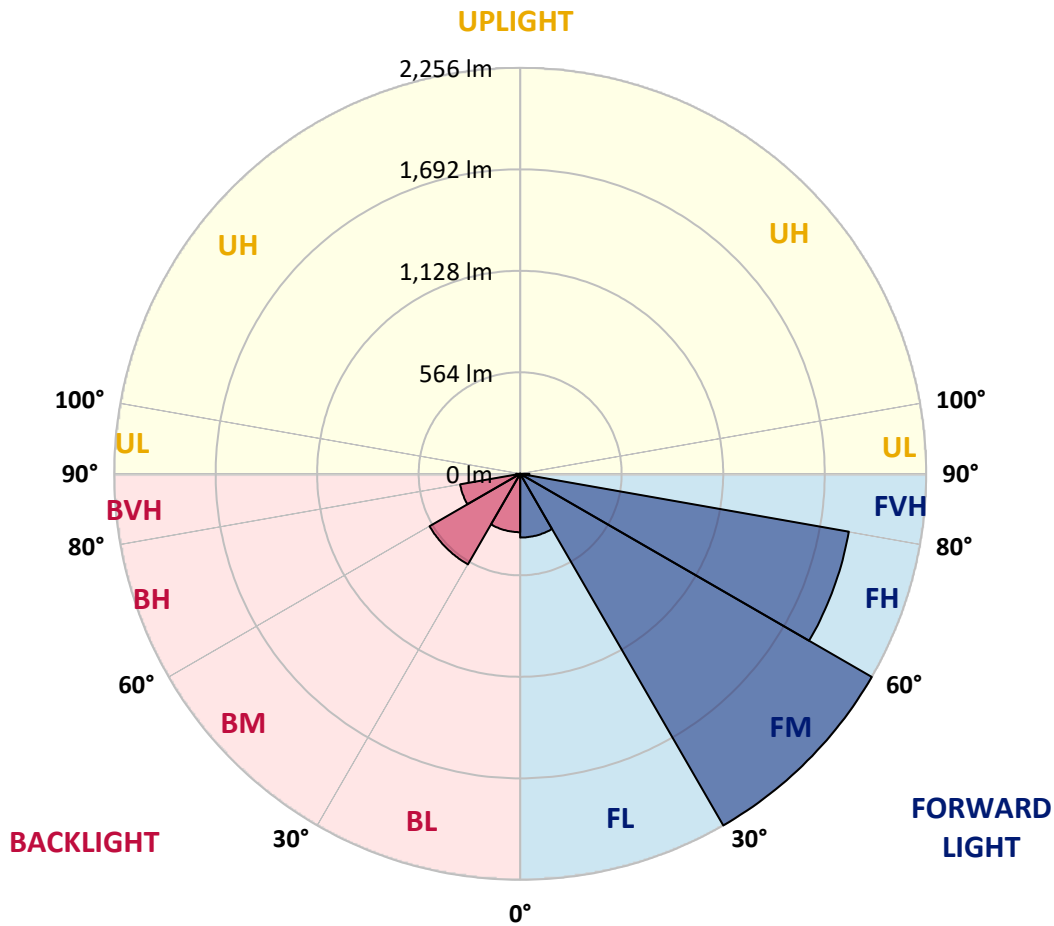
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.3	6.1			
FM (30°-60°)	2256.4	39.0			
FH (60°-80°)	1854.7	32.1			G2/5000
FVH (80°-90°)	51.2	0.9			G1/100
BL (0°-30°)	324.5	5.6	B1/500		
BM (30°-60°)	581.4	10.1	B1/1000		
BH (60°-80°)	338.5	5.9	B1/500		G1/500
BVH (80°-90°)	22.0	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8
2.5°	743.7	743.4	747.3	748.4	755.5	760.6	770.1	780.1	793.2	794.6
5°	700.8	700.8	705.2	709.9	719.1	729.2	743.7	761.2	783.7	787.2
7.5°	664.3	666.7	670.5	679.7	690.4	704.9	727.1	752.0	781.6	787.2
10°	635.0	637.7	642.4	649.8	665.8	685.9	715.0	747.0	786.6	795.5
12.5°	625.8	628.5	631.1	636.8	651.6	675.3	709.9	749.3	798.8	807.7
15°	647.1	650.4	648.3	646.8	654.5	676.2	712.3	757.9	813.9	826.6
17.5°	696.3	697.5	692.8	678.8	677.6	689.2	723.6	769.8	832.8	846.8
20°	775.7	773.6	763.8	736.3	720.6	718.2	742.8	787.5	852.4	867.2
22.5°	883.5	881.1	861.6	818.0	783.1	760.0	770.6	810.6	874.3	890.9
25°	1018.0	1014.7	986.0	926.7	872.5	815.4	808.6	841.1	901.3	916.7
27.5°	1174.9	1172.3	1141.2	1063.0	984.8	891.2	855.7	877.0	929.4	946.9
30°	1343.7	1351.4	1296.4	1212.2	1113.3	990.1	919.0	921.1	965.8	981.5
32.5°	1542.2	1555.5	1489.2	1382.5	1247.5	1097.6	999.0	982.7	1018.8	1031.9
35°	1738.8	1753.9	1698.9	1581.0	1425.5	1224.4	1082.5	1053.5	1089.3	1103.5
37.5°	1908.8	1929.0	1900.6	1798.1	1615.9	1377.2	1191.5	1136.7	1176.1	1193.9
40°	2043.0	2073.8	2071.7	2007.8	1840.4	1562.6	1329.8	1239.5	1283.9	1303.2
42.5°	2152.0	2178.7	2201.8	2198.5	2074.7	1773.2	1492.4	1373.1	1406.8	1429.0
45°	2227.2	2255.7	2305.4	2359.0	2300.1	1998.6	1678.7	1531.5	1562.3	1595.8
47.5°	2294.5	2326.8	2391.3	2476.3	2491.4	2224.9	1882.8	1716.0	1744.2	1778.8
50°	2300.4	2328.2	2428.3	2548.9	2627.4	2442.3	2102.0	1923.1	1949.4	1986.4
52.5°	2157.3	2201.2	2375.9	2546.8	2689.9	2624.1	2319.6	2138.4	2168.0	2212.4
55°	1674.6	1738.8	2222.2	2467.4	2667.7	2741.7	2526.7	2367.3	2405.2	2451.7
57.5°	1442.4	1470.5	1764.0	2322.9	2566.4	2772.2	2701.4	2598.6	2659.7	2710.6
60°	1296.4	1319.8	1493.3	2098.1	2433.1	2723.9	2836.5	2814.3	2919.7	2980.4
62.5°	1140.0	1162.2	1320.1	1751.9	2262.5	2643.7	2921.8	3013.3	3186.3	3252.6
65°	984.8	1003.7	1155.1	1472.0	2045.7	2563.4	2965.9	3185.4	3433.0	3501.7
67.5°	811.8	827.5	970.6	1241.9	1782.1	2453.5	2987.8	3320.7	3647.7	3706.6
70°	585.8	598.0	745.8	982.1	1451.3	2264.6	2978.9	3416.7	3759.1	3806.1
72.5°	276.9	287.9	461.4	637.7	1025.1	1896.7	2799.2	3340.6	3645.9	3622.5
75°	147.8	157.3	265.1	349.8	541.4	1300.2	2290.6	2877.6	3061.6	2947.8
77.5°	100.1	107.5	164.1	210.0	247.3	617.2	1472.3	1992.4	1916.8	1729.1
80°	79.4	87.1	134.5	142.2	119.7	223.0	608.3	922.3	662.5	529.9
82.5°	61.0	69.6	113.1	103.1	65.2	91.5	177.1	291.7	169.7	129.1
85°	37.3	46.5	88.9	65.8	36.7	41.8	60.1	81.2	51.8	43.2
87.5°	19.0	26.7	45.0	24.0	16.6	9.8	16.0	16.0	13.6	11.8
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°
806.8	0°	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8	806.8
802.6	2.5°	809.7	815.7	825.7	835.2	842.6	849.7	856.8	860.7	861.9	866.6
807.1	5°	819.2	830.2	849.7	868.1	879.6	886.7	891.8	894.7	895.3	896.8
819.2	7.5°	836.7	854.2	881.4	899.8	908.4	907.8	905.7	898.3	895.3	892.7
837.0	10°	861.3	884.4	917.8	930.6	925.3	911.0	892.7	871.1	861.0	851.2
861.3	12.5°	891.8	921.1	954.0	953.4	927.0	890.6	847.9	814.8	793.7	778.6
891.2	15°	928.8	962.6	987.7	967.6	909.9	844.4	781.9	738.7	719.7	703.1
921.4	17.5°	967.0	1003.1	1014.7	963.2	866.6	776.0	705.2	671.1	652.5	643.6
954.0	20°	1004.3	1040.2	1030.7	937.7	800.9	698.4	635.3	616.6	612.8	614.9
985.7	22.5°	1043.7	1075.7	1033.9	888.5	717.0	619.0	584.4	584.9	593.5	599.8
1018.8	25°	1084.0	1105.6	1025.4	817.4	627.0	560.7	552.1	561.5	578.4	590.6
1056.2	27.5°	1122.8	1132.3	1006.7	729.5	549.7	518.9	520.4	539.9	565.4	582.3
1101.5	30°	1166.6	1156.0	970.9	630.6	496.1	483.1	495.5	518.3	543.8	558.9
1158.6	32.5°	1216.1	1176.4	914.0	539.0	458.2	454.3	474.8	489.6	500.8	505.3
1234.5	35°	1277.7	1205.1	841.1	474.8	424.1	433.3	452.9	445.4	441.0	438.6
1336.3	37.5°	1357.7	1243.9	755.8	433.0	396.6	418.2	426.2	403.1	385.6	377.0
1459.8	40°	1453.9	1300.8	673.8	400.7	379.1	405.2	391.2	363.4	341.2	329.1
1598.8	42.5°	1560.8	1360.3	604.8	376.4	369.3	394.5	365.5	332.3	296.5	292.6
1764.3	45°	1673.1	1421.6	557.7	357.8	364.6	385.3	350.7	297.1	271.6	287.3
1930.5	47.5°	1785.3	1477.9	529.3	343.9	362.2	375.0	337.6	277.5	259.4	282.3
2108.5	50°	1910.3	1528.3	516.5	333.8	359.6	370.8	318.1	272.5	246.7	261.8
2292.7	52.5°	2034.4	1567.4	507.1	323.7	355.7	367.6	308.6	266.6	231.3	232.2
2478.1	55°	2158.2	1592.8	496.7	310.4	347.1	360.4	307.7	260.0	219.8	215.6
2674.2	57.5°	2290.3	1607.3	484.0	295.6	332.3	342.4	306.8	255.0	216.2	209.4
2874.7	60°	2424.8	1628.7	467.4	277.5	312.5	320.8	304.8	253.2	214.1	202.6
3063.6	62.5°	2545.3	1636.1	447.5	260.3	287.0	299.4	300.3	251.7	208.5	188.7
3220.6	65°	2624.4	1604.1	412.9	240.8	259.4	277.5	291.7	246.7	198.4	178.6
3298.2	67.5°	2621.2	1512.9	358.7	215.6	232.8	253.2	279.3	238.1	186.3	166.2
3239.6	70°	2499.1	1332.8	290.0	186.3	203.5	227.2	263.3	225.4	171.8	152.5
2880.6	72.5°	2143.4	1043.1	210.6	151.9	169.4	200.2	242.6	210.0	157.0	140.4
2128.9	75°	1531.2	660.2	142.8	116.7	131.8	169.7	216.8	191.9	143.3	141.0
1066.2	77.5°	782.2	315.4	94.5	85.3	91.8	133.9	182.1	171.5	145.4	116.4
303.3	80°	254.4	116.4	59.5	58.1	61.0	89.1	141.0	140.7	110.2	79.1
73.5	82.5°	81.2	50.1	38.8	37.3	35.8	56.0	98.3	111.4	74.3	50.1
26.4	85°	32.3	29.9	22.8	21.0	15.1	26.4	51.5	74.0	55.4	36.1
6.8	87.5°	11.8	11.8	6.2	4.4	3.3	8.9	13.9	22.2	31.7	18.7
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>
806.8
869.3
899.2
893.3
848.2
775.1
701.3
646.3
614.0
601.2
593.8
586.4
562.4
507.6
441.0
379.1
329.9
296.5
295.6
292.9
273.1
238.4
218.6
210.3
203.5
188.7
178.6
167.0
154.3
139.5
133.0
103.7
69.9
49.8
37.0
18.4
0.0

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