

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: P945288

Luminaire Tested: **GALN-SB1B-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4961 lumens
Efficiency: N/A
Efficacy: 124.6 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

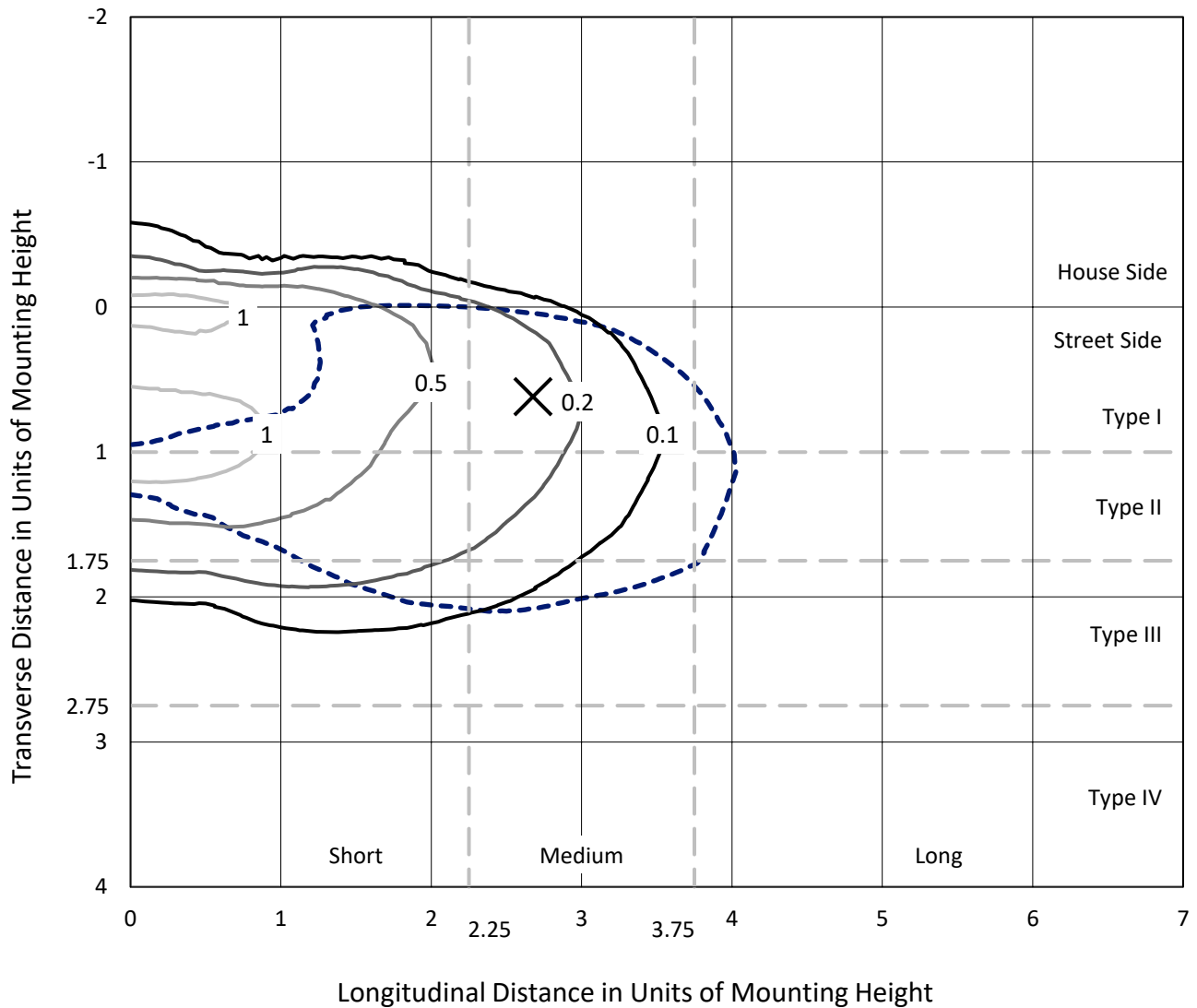
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

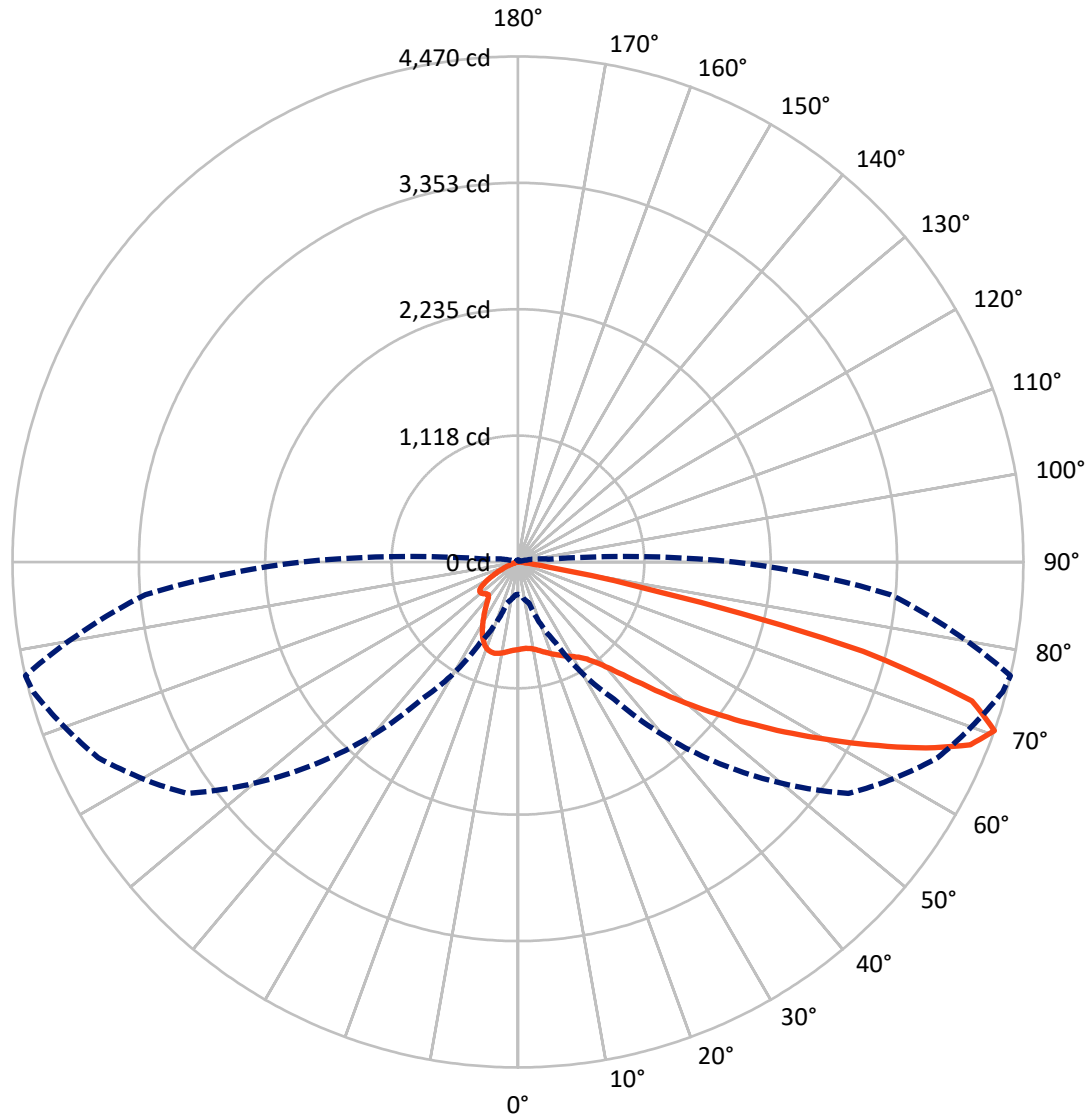
✕ Max cd
 - - - 1/2 Max cd



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	523.0	0.0	523.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4438.0	0.0	4438.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	4961.0	0.0	4961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.3
10°-20°	158.3	3.2
20°-30°	244.9	4.9
30°-40°	444.3	9.0
40°-50°	838.7	16.9
50°-60°	1211.9	24.4
60°-70°	1290.0	26.0
70°-80°	683.6	13.8
80°-90°	22.4	0.5
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°	4961.0	100.0
0°-180°	4961.0	100.0

Coefficient of Utilization



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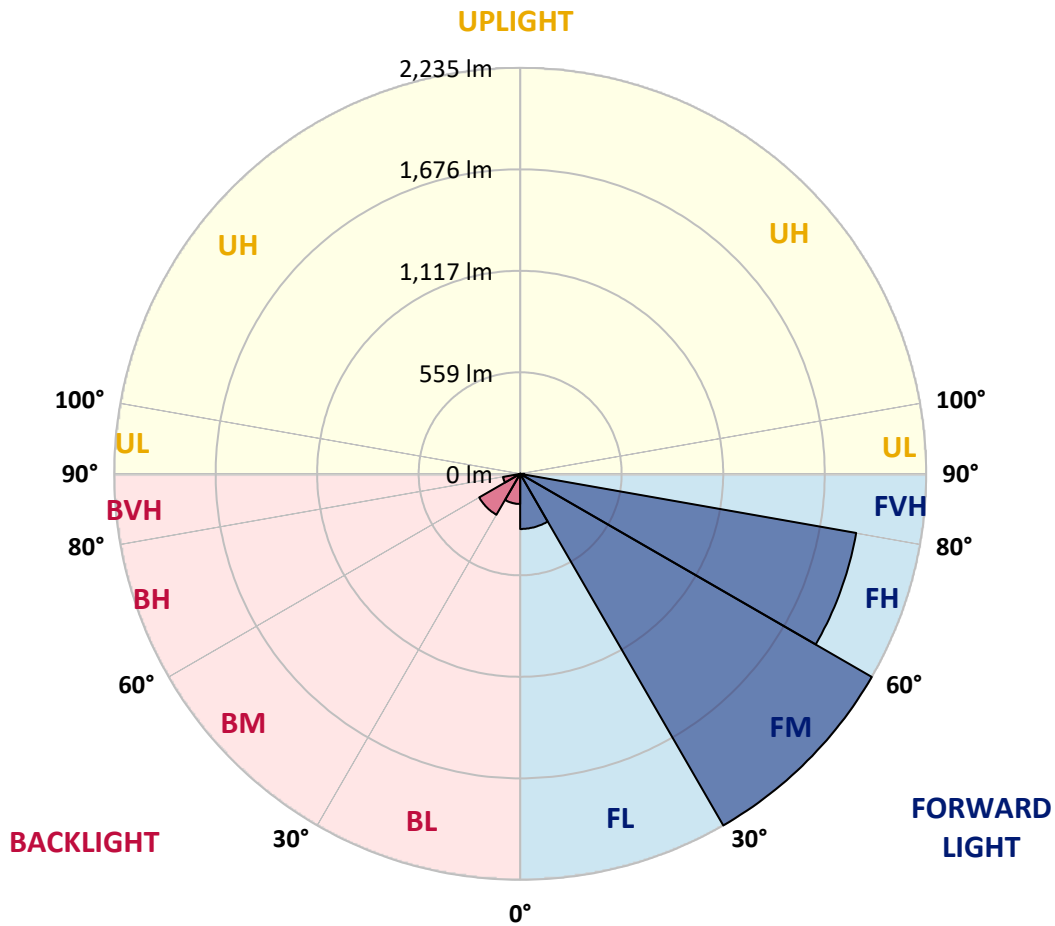
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.7	6.1			
FM (30°-60°)	2234.7	45.0			
FH (60°-80°)	1877.8	37.9			G2/5000
FVH (80°-90°)	21.8	0.4			G1/100
BL (0°-30°)	166.2	3.3	B1/500		
BM (30°-60°)	260.3	5.2	B1/1000		
BH (60°-80°)	95.9	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
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°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	726.5	733.1	732.2	736.5	738.1	744.4	750.6	759.1	768.5	768.2
5°	685.5	692.1	693.6	699.6	707.1	716.8	729.7	746.6	764.1	766.9
7.5°	636.9	643.8	647.9	659.8	673.6	693.6	714.6	739.4	768.5	772.6
10°	588.4	594.6	600.0	616.9	638.8	668.6	702.7	738.4	777.6	783.5
12.5°	558.3	564.2	570.2	584.9	612.2	648.5	694.9	742.8	792.6	801.1
15°	547.6	553.0	557.7	570.8	596.2	637.5	693.3	751.9	811.7	823.0
17.5°	549.2	552.0	555.1	565.2	589.9	632.5	696.1	767.6	834.3	844.3
20°	558.3	559.8	560.2	567.1	589.0	631.9	701.8	782.6	855.6	869.1
22.5°	569.9	570.5	569.9	574.6	594.9	636.6	709.3	800.8	879.4	891.9
25°	624.1	612.2	597.1	588.0	605.0	645.7	720.6	825.2	905.4	917.6
27.5°	792.3	758.2	704.3	643.8	625.6	658.8	736.2	850.0	931.7	942.7
30°	1065.5	1020.7	929.2	792.9	692.1	686.4	756.6	874.7	959.6	971.5
32.5°	1339.3	1328.3	1222.8	1034.2	841.5	747.8	790.4	908.2	996.6	1006.0
35°	1616.3	1594.0	1507.6	1321.1	1071.8	872.8	846.8	952.1	1045.1	1055.8
37.5°	1828.4	1814.9	1761.3	1607.8	1345.0	1065.8	943.3	1020.1	1115.6	1127.5
40°	2015.7	2009.4	1991.3	1890.1	1650.4	1318.3	1093.4	1125.3	1213.4	1227.5
42.5°	2163.0	2177.7	2188.0	2159.8	1965.3	1606.6	1295.1	1273.2	1349.7	1364.1
45°	2313.6	2318.7	2360.3	2401.1	2277.9	1907.9	1522.6	1446.5	1519.1	1537.0
47.5°	2410.5	2430.5	2503.8	2575.6	2540.8	2206.8	1767.0	1651.0	1715.6	1749.1
50°	2417.7	2455.6	2556.4	2681.4	2732.2	2491.3	2032.6	1884.1	1952.7	1989.7
52.5°	2297.7	2356.6	2512.9	2695.9	2835.6	2732.2	2307.4	2117.2	2205.2	2253.5
55°	1761.6	1838.7	2349.0	2617.5	2839.7	2914.9	2574.9	2360.0	2486.6	2541.1
57.5°	1534.8	1573.7	1846.8	2481.6	2764.2	2988.5	2816.8	2591.2	2792.7	2860.3
60°	1277.0	1328.0	1548.9	2259.1	2661.7	2995.7	3030.5	2889.5	3124.4	3200.6
62.5°	867.8	923.3	1142.9	1876.9	2521.7	2992.2	3205.6	3196.5	3493.2	3575.0
65°	537.6	572.4	717.1	1532.6	2325.9	2996.0	3388.9	3569.3	3882.3	3965.3
67.5°	424.8	440.8	516.3	1176.7	1988.5	2911.4	3571.8	3919.9	4248.5	4314.3
70°	285.4	295.1	375.6	788.9	1479.4	2521.0	3568.4	4096.0	4437.1	4470.0
72.5°	150.4	157.9	219.6	365.3	893.5	1792.0	3007.9	3885.4	4249.5	4200.0
75°	75.2	87.7	147.9	185.5	381.6	999.4	1867.8	3063.4	3344.7	3153.0
77.5°	57.0	68.9	122.2	122.2	132.8	336.5	791.1	1670.8	1541.1	1283.2
80°	36.3	47.0	106.8	92.4	55.5	85.5	206.1	468.1	327.4	249.1
82.5°	21.3	30.7	89.0	61.1	31.0	31.6	58.3	99.6	84.9	66.1
85°	8.5	20.1	61.1	24.1	12.2	7.8	17.5	21.3	17.5	13.2
87.5°	0.0	4.7	10.7	0.0	0.9	0.6	1.3	1.6	1.6	1.3
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°
773.8	0°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
774.5	2.5°	777.3	777.9	779.8	780.1	775.7	770.1	767.9	766.9	763.2	762.9
779.5	5°	786.7	789.5	786.7	778.5	759.1	731.8	711.2	694.3	678.9	674.2
796.7	7.5°	805.5	808.3	799.8	767.9	719.0	664.8	615.9	581.5	550.5	538.9
817.7	10°	832.4	836.2	809.5	745.0	658.5	571.4	488.7	430.5	385.0	366.5
846.2	12.5°	866.2	867.8	814.9	710.2	579.9	455.5	338.4	276.0	235.6	220.6
880.7	15°	903.5	901.3	815.5	662.9	472.8	322.1	220.9	181.4	165.1	160.1
915.1	17.5°	942.7	933.6	803.0	594.6	355.3	220.2	163.9	154.5	151.6	150.4
949.3	20°	981.2	960.9	780.1	505.3	255.0	164.5	148.8	146.0	144.4	143.8
983.7	22.5°	1016.3	981.5	740.9	401.6	185.2	145.4	140.7	138.2	135.3	134.1
1017.3	25°	1050.5	993.4	685.8	304.8	148.2	136.0	132.2	127.5	123.7	122.2
1053.3	27.5°	1083.7	1001.0	616.9	225.6	132.2	127.2	120.3	113.7	110.9	110.3
1091.8	30°	1119.1	1003.5	538.5	168.2	122.5	116.2	106.2	98.7	97.1	97.4
1143.8	32.5°	1162.3	1007.2	459.6	137.8	114.4	103.1	91.2	83.3	82.1	83.3
1219.6	35°	1214.0	1014.7	383.5	126.9	107.1	89.6	76.8	70.2	68.9	69.9
1316.8	37.5°	1284.2	1027.0	312.4	124.7	101.2	78.3	64.5	59.2	59.2	59.5
1435.8	40°	1377.5	1059.5	248.8	123.1	98.1	69.9	54.5	52.3	53.3	53.9
1587.4	42.5°	1491.3	1128.8	205.8	121.2	94.6	66.1	49.5	48.6	50.1	50.8
1769.1	45°	1618.8	1216.5	190.8	118.1	91.5	68.6	47.3	46.1	47.9	48.2
1972.8	47.5°	1750.7	1302.3	188.9	114.7	88.3	72.4	46.7	43.9	46.1	46.4
2190.2	50°	1884.1	1358.4	190.8	109.3	83.3	72.4	47.0	41.7	43.5	44.5
2415.8	52.5°	2018.5	1384.1	189.5	97.7	74.6	68.0	47.0	39.8	41.7	42.3
2659.5	55°	2148.9	1379.1	170.4	80.5	63.3	60.2	45.7	38.2	39.5	39.8
2889.8	57.5°	2251.9	1309.2	135.0	62.7	51.4	50.1	41.7	36.3	37.3	37.0
3100.9	60°	2305.8	1155.7	96.5	48.2	40.4	39.5	36.7	33.8	34.5	32.9
3279.8	62.5°	2306.4	952.7	64.5	38.2	32.3	31.3	31.3	30.4	29.8	26.6
3418.3	65°	2257.3	727.5	42.9	30.4	26.0	24.4	26.3	26.0	23.8	19.4
3460.6	67.5°	2145.7	476.8	32.6	23.8	20.1	19.1	21.0	21.9	20.4	16.3
3306.5	70°	1916.4	277.6	26.9	18.5	15.0	14.1	16.9	18.8	16.9	13.2
2826.2	72.5°	1591.8	149.8	21.9	13.8	10.3	9.4	13.5	15.4	13.5	9.7
1813.3	75°	1032.9	80.2	16.9	9.1	5.3	6.0	10.0	11.3	9.4	6.3
532.3	77.5°	346.8	35.4	10.7	4.4	2.5	2.5	6.0	6.9	4.4	2.2
96.8	80°	77.4	14.7	4.4	1.9	0.9	0.9	1.3	1.3	0.6	0.0
29.8	82.5°	25.4	6.0	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
7.5	85°	9.7	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	3.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
773.8
763.5
671.4
534.2
358.7
215.9
160.1
150.1
143.2
133.8
121.6
109.7
97.4
83.0
69.6
59.2
53.9
50.8
48.6
46.7
44.8
42.3
39.8
37.0
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