

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: P945790

Luminaire Tested: **GALN-SB1C-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5476 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

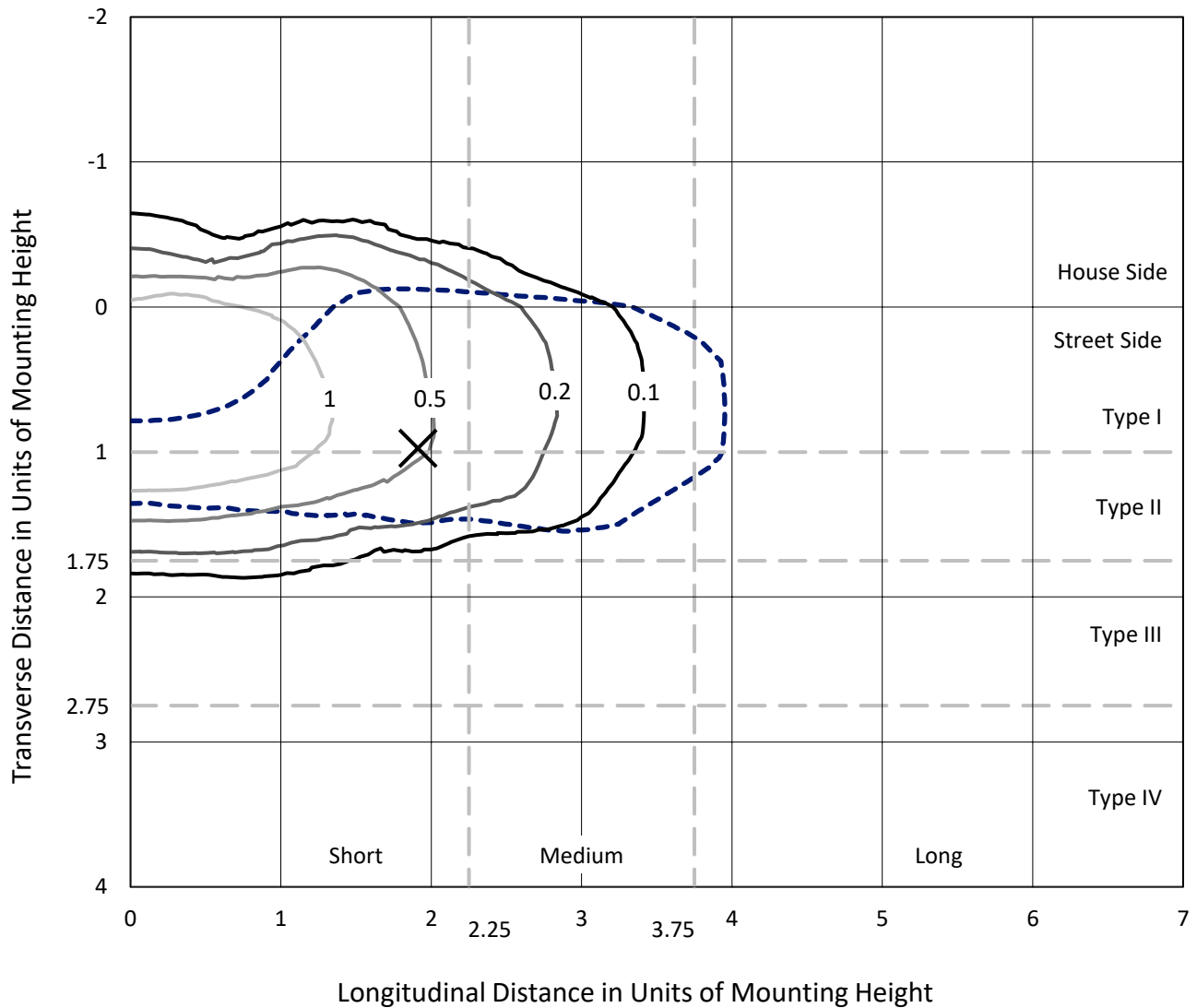
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

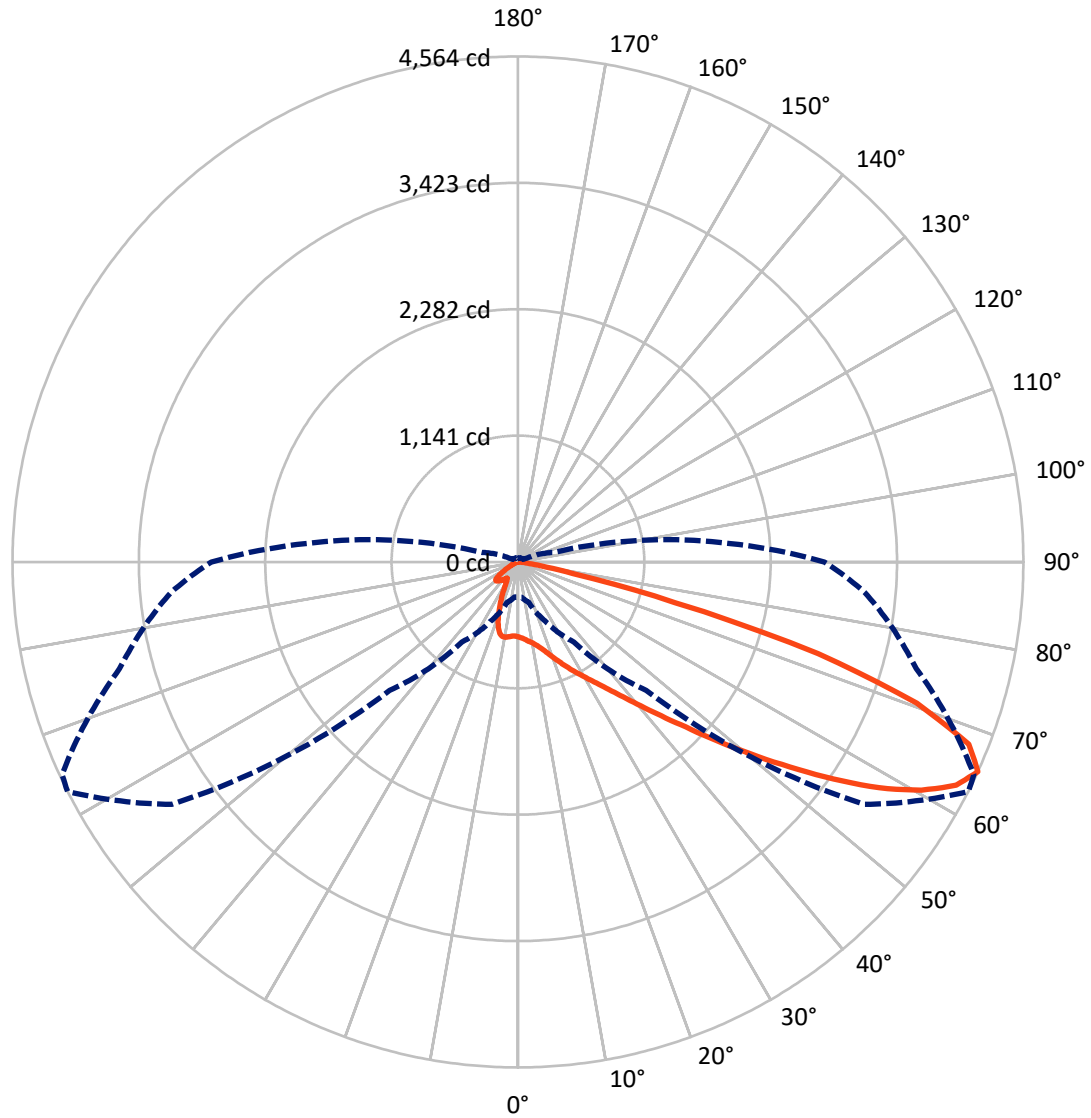
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.9	0.0	804.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4671.1	0.0	4671.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	5476.0	0.0	5476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.2
10°-20°	176.7	3.2
20°-30°	307.6	5.6
30°-40°	554.5	10.1
40°-50°	1099.7	20.1
50°-60°	1498.0	27.4
60°-70°	1195.7	21.8
70°-80°	541.1	9.9
80°-90°	38.9	0.7
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°	5476.0	100.0
0°-180°	5476.0	100.0

Coefficient of Utilization

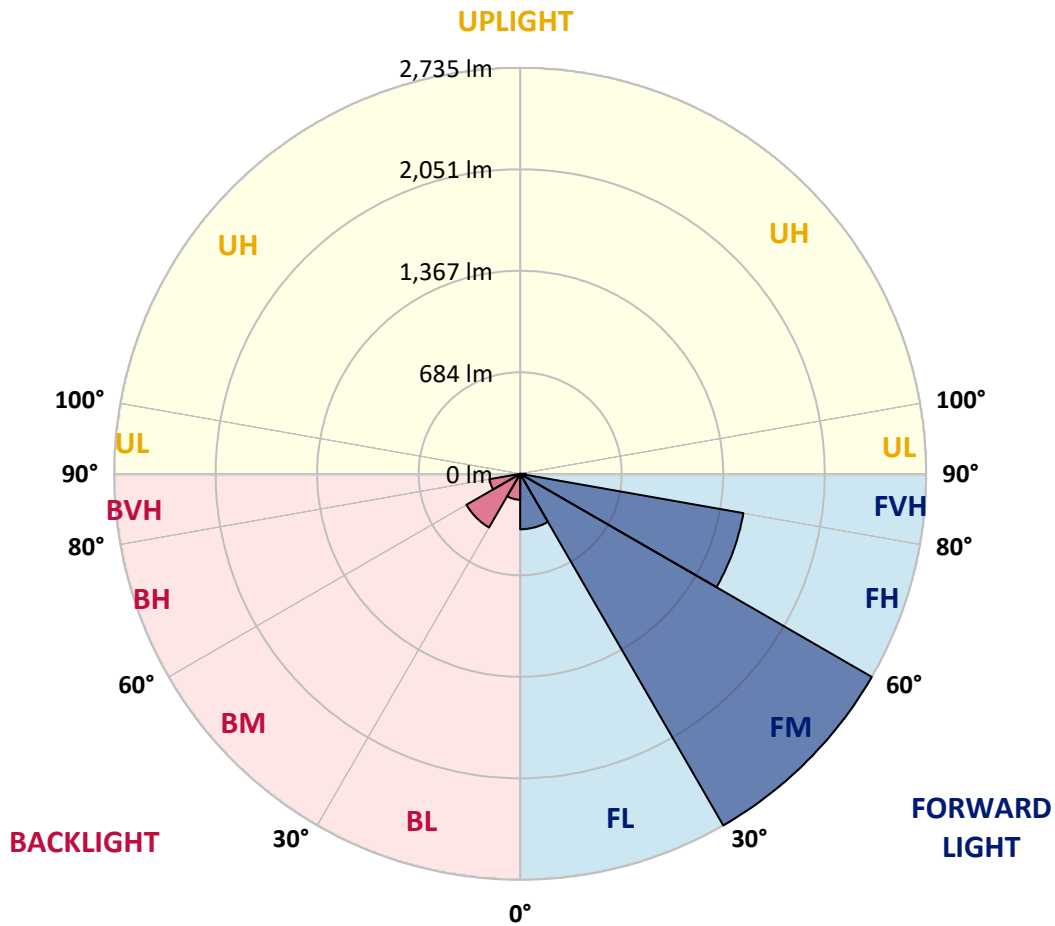


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.8	6.8			
FM (30°-60°)	2734.6	49.9			
FH (60°-80°)	1526.7	27.9			G1/1800
FVH (80°-90°)	36.0	0.7			G1/100
BL (0°-30°)	174.2	3.2	B1/500		
BM (30°-60°)	417.7	7.6	B1/1000		
BH (60°-80°)	210.1	3.8	B1/500		G1/500
BVH (80°-90°)	2.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	675.8	675.8	675.8	675.8	675.8	675.8	675.8	675.8	675.8	675.8
2.5°	691.7	689.8	692.4	691.3	690.5	689.0	688.3	687.5	686.0	684.9
5°	693.5	692.4	695.1	697.3	699.6	701.8	703.0	704.5	703.0	700.0
7.5°	677.7	677.0	682.6	689.4	699.6	708.2	717.7	722.9	723.3	722.2
10°	676.6	674.7	680.4	688.7	701.8	717.3	733.9	745.2	746.7	751.6
12.5°	694.3	692.4	700.3	709.4	722.9	739.1	759.5	775.3	777.6	784.3
15°	724.1	721.4	730.5	742.1	759.5	777.9	799.4	813.7	815.6	823.9
17.5°	758.7	756.1	766.6	779.1	797.9	823.1	848.0	863.8	866.1	871.4
20°	803.2	799.8	808.1	819.4	839.3	869.5	899.2	921.8	921.5	921.5
22.5°	854.8	849.5	856.7	865.7	884.5	921.1	960.6	987.4	987.4	976.8
25°	910.2	904.9	912.8	921.1	937.7	979.1	1025.4	1058.6	1060.1	1042.0
27.5°	979.5	972.7	978.7	988.5	998.3	1040.5	1095.5	1133.9	1134.7	1106.8
30°	1112.8	1093.6	1074.8	1064.2	1068.8	1110.6	1169.3	1211.9	1215.7	1177.3
32.5°	1357.0	1353.2	1286.9	1200.2	1155.0	1185.9	1251.9	1303.1	1305.3	1256.0
35°	1736.3	1731.8	1625.2	1460.2	1312.9	1286.9	1352.1	1412.7	1411.2	1355.5
37.5°	2189.1	2185.0	2044.5	1823.7	1585.3	1439.5	1481.3	1544.9	1554.4	1481.3
40°	2576.0	2560.6	2471.7	2258.8	1946.9	1692.6	1665.1	1707.3	1717.1	1630.5
42.5°	2869.1	2855.9	2810.7	2677.8	2384.7	2067.1	1881.7	1897.9	1908.9	1804.9
45°	3020.9	3017.9	3036.0	3023.6	2830.7	2526.7	2191.4	2124.0	2128.1	1998.1
47.5°	3042.4	3040.9	3123.4	3240.2	3214.2	3045.1	2588.8	2405.8	2391.1	2216.3
50°	2915.8	2912.8	3071.0	3289.9	3470.4	3480.5	3040.2	2723.3	2690.9	2441.9
52.5°	2511.6	2510.9	2770.8	3135.1	3560.4	3861.8	3486.2	3072.2	3017.9	2680.8
55°	1932.6	1946.5	2244.5	2675.1	3396.2	4045.3	3886.7	3459.5	3376.2	2921.1
57.5°	1369.0	1389.4	1684.0	2067.5	2886.8	3936.8	4157.5	3847.5	3757.8	3160.7
60°	735.4	753.4	1048.4	1506.1	2147.7	3532.2	4300.3	4184.3	4099.5	3388.3
62.5°	438.1	444.2	566.2	972.3	1452.6	2698.5	4239.6	4440.8	4371.1	3579.2
65°	314.6	315.7	377.1	593.7	881.9	1639.5	3814.3	4563.6	4542.2	3723.2
67.5°	264.8	264.1	289.7	394.4	600.9	821.3	2923.4	4390.0	4481.1	3814.3
70°	227.2	228.3	258.4	288.9	451.7	464.9	1453.4	3822.2	4016.6	3838.4
72.5°	169.1	172.9	200.8	263.3	340.9	319.8	501.8	2834.1	3185.6	3616.5
75°	119.4	121.3	141.3	221.5	254.3	232.8	256.2	1465.1	1915.6	2772.7
77.5°	91.9	95.3	107.0	154.8	250.5	163.5	156.7	507.1	779.1	1674.9
80°	49.7	55.8	77.2	111.9	175.9	115.7	77.6	201.9	264.1	783.2
82.5°	25.6	28.6	53.9	80.6	100.2	101.0	38.4	84.0	108.9	241.9
85°	10.2	12.4	36.2	44.5	51.6	49.7	17.3	33.9	39.2	67.1
87.5°	2.3	3.8	13.2	10.2	9.8	10.5	4.1	7.9	7.5	7.9
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°
675.8	0°	675.8	675.8	675.8	675.8	675.8	675.8	675.8	675.8	675.8	675.8
680.4	2.5°	680.0	678.5	674.3	669.8	664.5	661.5	659.6	659.3	656.6	654.7
695.4	5°	691.3	689.8	681.9	672.5	662.3	654.4	646.8	640.1	630.3	628.4
717.3	7.5°	713.9	709.7	696.9	684.1	664.9	641.9	614.1	582.0	553.4	544.7
746.3	10°	741.8	736.1	719.9	697.3	654.7	592.2	524.8	462.2	412.5	398.6
780.6	12.5°	773.4	768.5	747.0	705.2	612.2	498.8	395.6	318.0	269.7	257.7
817.1	15°	811.1	803.9	774.2	693.2	536.1	379.0	271.6	225.7	208.3	206.1
858.9	17.5°	851.0	839.3	798.3	649.8	433.6	269.4	209.8	196.6	189.1	186.9
901.1	20°	887.6	872.5	812.6	584.3	324.0	209.8	188.0	179.3	172.5	169.9
943.3	22.5°	924.1	902.6	812.6	495.0	243.0	186.1	172.5	164.6	156.7	153.3
988.5	25°	962.2	933.5	798.3	395.6	195.5	170.7	157.8	149.2	142.4	138.3
1031.5	27.5°	999.1	959.5	765.5	301.4	174.0	157.1	144.3	136.0	129.6	126.6
1078.2	30°	1034.1	985.1	719.5	228.7	160.1	143.9	131.9	124.7	118.3	115.3
1138.8	32.5°	1081.6	1017.5	670.6	187.6	148.1	131.5	120.6	113.8	108.1	105.9
1217.6	35°	1147.5	1065.4	628.4	184.2	137.9	121.3	110.4	104.0	98.3	96.4
1319.3	37.5°	1240.9	1142.6	606.1	206.8	129.6	112.3	102.1	95.3	90.0	88.5
1448.5	40°	1356.2	1247.3	618.2	229.4	123.9	104.4	94.6	87.8	83.3	81.4
1596.9	42.5°	1493.0	1376.5	684.9	246.8	120.2	97.6	87.4	79.9	76.9	76.1
1765.3	45°	1650.0	1518.6	787.0	265.2	114.1	91.2	80.2	74.6	72.3	72.0
1948.4	47.5°	1828.6	1674.5	905.3	288.2	108.1	85.1	74.6	70.8	68.9	68.2
2139.4	50°	2005.7	1831.6	1026.9	301.0	103.2	79.5	70.1	67.1	65.5	65.2
2341.3	52.5°	2191.0	1993.2	1125.3	288.9	99.1	75.0	66.3	64.0	62.5	62.2
2527.4	55°	2367.7	2124.0	1142.2	245.2	90.8	70.4	62.2	61.0	59.1	59.1
2716.2	57.5°	2519.9	2189.5	1022.4	180.1	82.5	63.7	58.0	56.9	55.4	55.0
2886.5	60°	2659.7	2170.7	789.2	121.3	73.5	56.9	52.7	52.0	50.5	48.6
3034.5	62.5°	2738.4	2087.8	539.8	79.1	64.4	49.7	46.7	46.3	42.9	39.2
3144.1	65°	2768.2	1917.5	336.8	57.6	53.9	42.6	40.3	39.6	34.7	30.5
3206.3	67.5°	2742.2	1637.2	169.9	45.6	42.6	35.4	33.2	33.2	29.8	26.0
3202.5	70°	2638.2	1227.4	71.6	36.5	32.8	27.1	27.1	28.6	25.2	21.1
3036.4	72.5°	2412.5	825.8	38.0	27.9	24.5	19.2	22.2	23.4	20.0	15.8
2485.2	75°	1917.9	503.7	26.4	20.7	15.4	13.6	17.0	17.7	13.6	10.5
1703.9	77.5°	1311.8	289.3	17.7	13.2	9.8	7.9	11.7	10.9	7.2	4.9
657.0	80°	576.0	120.6	10.2	6.0	3.8	3.0	4.1	3.0	2.3	1.5
90.0	82.5°	67.4	28.3	3.8	2.3	1.5	0.8	0.4	0.0	0.0	0.0
27.5	85°	13.9	3.4	1.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0
4.9	87.5°	2.6	0.8	0.4	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>
675.8
656.6
627.6
540.6
393.3
254.3
203.8
185.7
168.4
151.4
136.8
126.6
115.7
105.9
96.4
88.2
81.0
76.1
71.6
68.2
65.2
62.2
58.8
54.6
48.2
38.4
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