

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: P945729

Luminaire Tested: **GALN-SB1C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945729
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-SB1C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA 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: 5604 lumens
Efficiency: N/A
Efficacy: 103.0 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

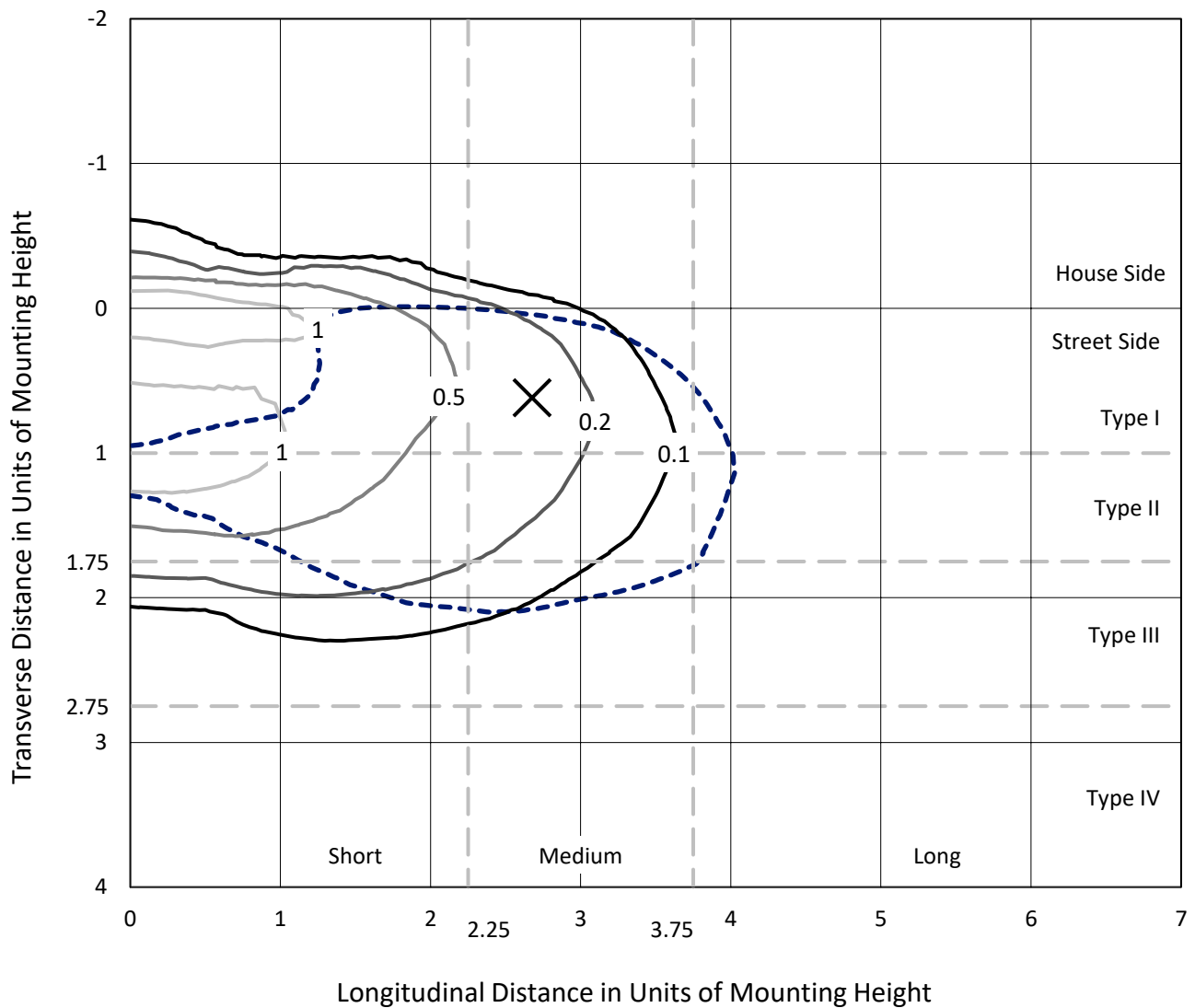
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

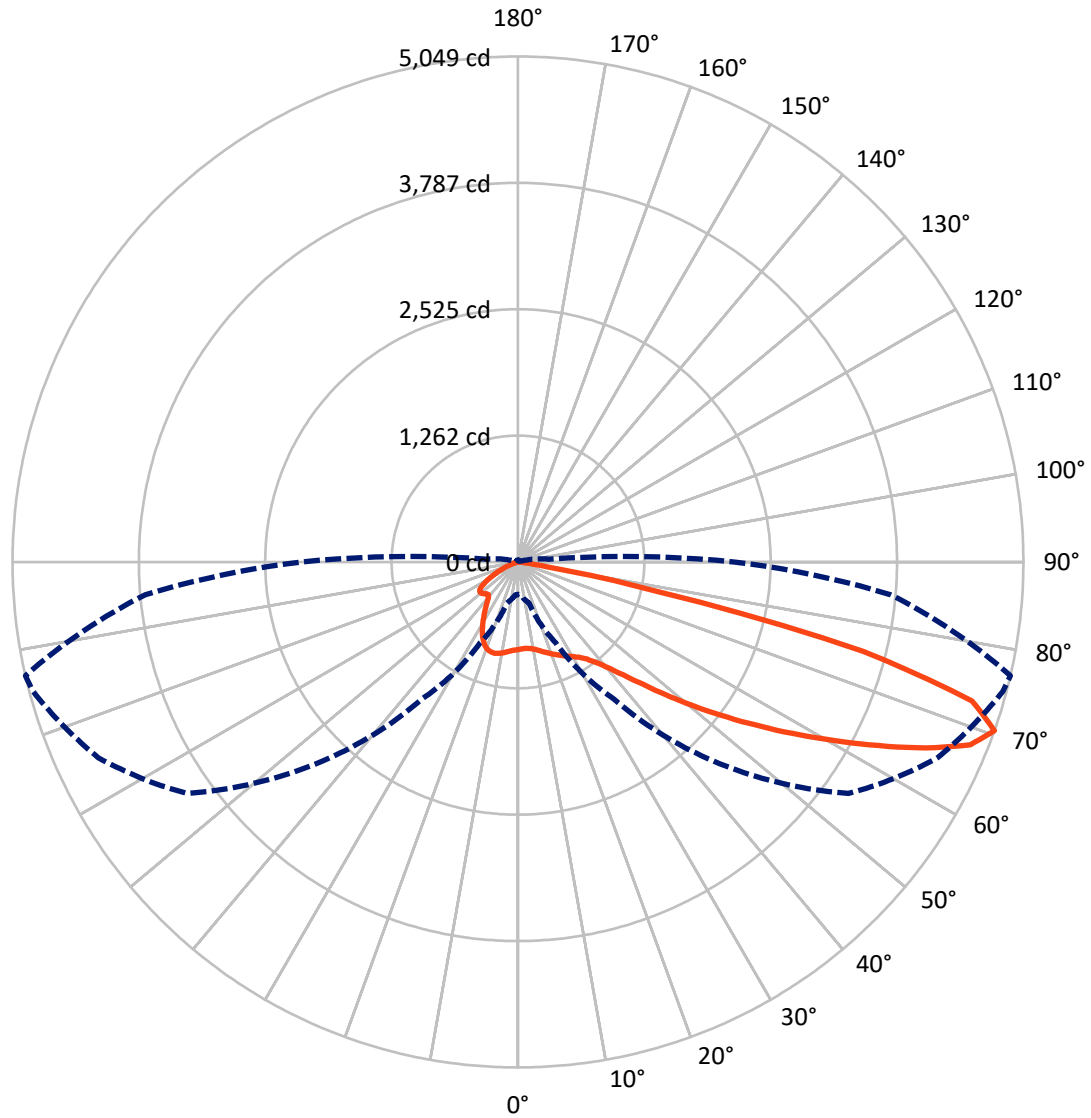
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	590.7	0.0	590.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5013.3	0.0	5013.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	5604.0	0.0	5604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.3
10°-20°	178.8	3.2
20°-30°	276.6	4.9
30°-40°	501.9	9.0
40°-50°	947.4	16.9
50°-60°	1369.0	24.4
60°-70°	1457.3	26.0
70°-80°	772.2	13.8
80°-90°	25.4	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°	5604.0	100.0
0°-180°	5604.0	100.0

Coefficient of Utilization



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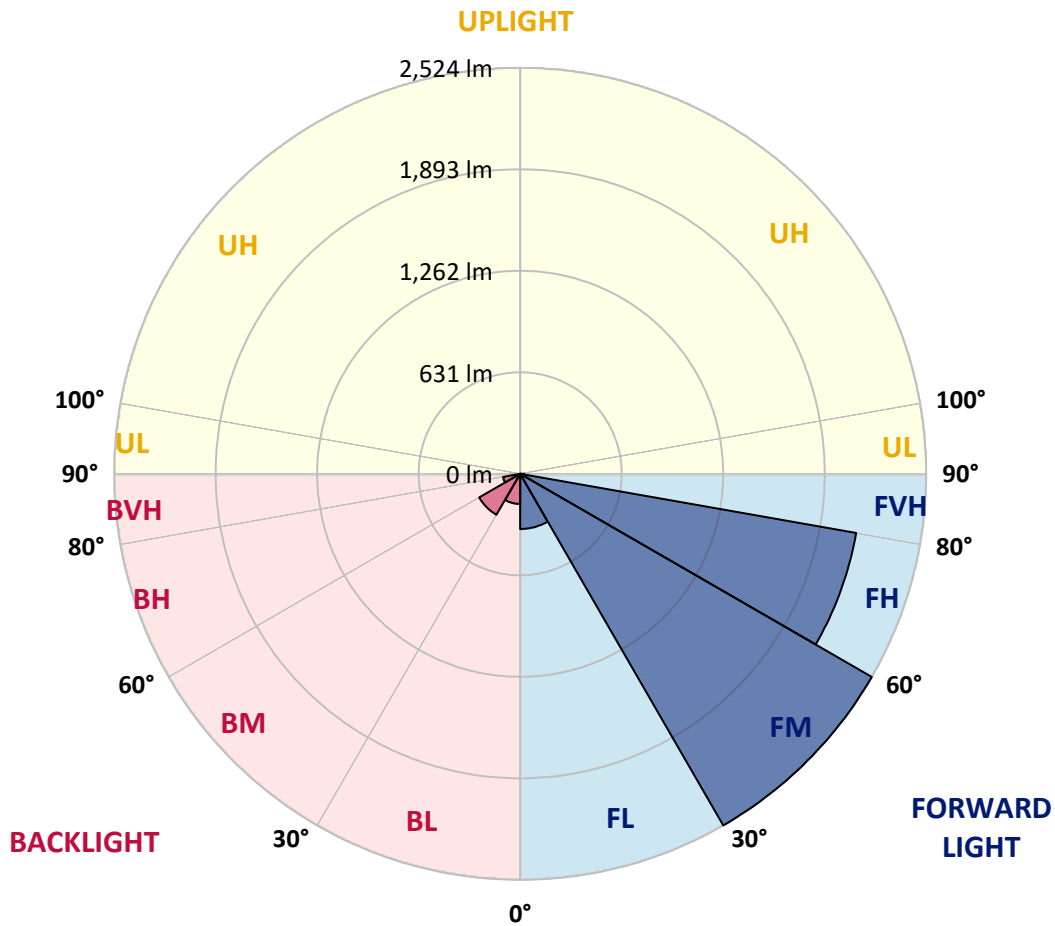
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.1	6.1			
FM (30°-60°)	2524.3	45.0			
FH (60°-80°)	2121.2	37.9			G2/5000
FVH (80°-90°)	24.7	0.4			G1/100
BL (0°-30°)	187.7	3.3	B1/500		
BM (30°-60°)	294.1	5.2	B1/1000		
BH (60°-80°)	108.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.7	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°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	820.7	828.1	827.1	832.0	833.8	840.9	847.9	857.5	868.1	867.8
5°	774.3	781.8	783.5	790.2	798.7	809.7	824.2	843.3	863.2	866.3
7.5°	719.5	727.3	731.9	745.3	760.9	783.5	807.2	835.2	868.1	872.7
10°	664.6	671.7	677.7	696.8	721.6	755.2	793.8	834.1	878.4	885.1
12.5°	630.6	637.4	644.1	660.7	691.5	732.6	784.9	839.1	895.4	904.9
15°	618.6	624.6	629.9	644.8	673.5	720.2	783.2	849.4	916.9	929.7
17.5°	620.4	623.6	627.1	638.4	666.4	714.5	786.4	867.0	942.4	953.7
20°	630.6	632.4	632.8	640.6	665.3	713.8	792.7	884.0	966.5	981.7
22.5°	643.7	644.4	643.7	649.0	672.0	719.1	801.2	904.6	993.4	1007.5
25°	705.0	691.5	674.5	664.3	683.4	729.4	814.0	932.2	1022.8	1036.6
27.5°	895.0	856.4	795.6	727.3	706.7	744.2	831.7	960.1	1052.5	1064.9
30°	1203.6	1153.0	1049.7	895.7	781.8	775.4	854.7	988.1	1084.0	1097.4
32.5°	1512.9	1500.5	1381.3	1168.2	950.6	844.7	892.9	1025.9	1125.7	1136.4
35°	1825.7	1800.6	1702.9	1492.4	1210.7	986.0	956.6	1075.5	1180.6	1192.6
37.5°	2065.3	2050.1	1989.6	1816.2	1519.3	1204.0	1065.6	1152.3	1260.2	1273.7
40°	2277.0	2269.9	2249.4	2135.1	1864.3	1489.2	1235.1	1271.2	1370.6	1386.6
42.5°	2443.3	2459.9	2471.6	2439.8	2220.0	1814.8	1463.0	1438.2	1524.6	1540.9
45°	2613.5	2619.2	2666.3	2712.3	2573.2	2155.2	1719.9	1633.9	1716.0	1736.2
47.5°	2722.9	2745.5	2828.3	2909.4	2870.1	2492.8	1996.0	1865.0	1937.9	1975.8
50°	2731.0	2773.8	2887.8	3029.0	3086.3	2814.2	2296.1	2128.3	2205.8	2247.6
52.5°	2595.5	2662.0	2838.6	3045.3	3203.1	3086.3	2606.4	2391.6	2491.1	2545.6
55°	1990.0	2077.0	2653.5	2956.8	3207.7	3292.6	2908.7	2665.9	2808.9	2870.4
57.5°	1733.7	1777.6	2086.2	2803.2	3122.4	3375.8	3181.9	2927.1	3154.6	3231.1
60°	1442.5	1500.2	1749.7	2551.9	3006.7	3384.0	3423.2	3264.0	3529.4	3615.4
62.5°	980.3	1042.9	1291.0	2120.2	2848.5	3380.1	3621.1	3610.8	3945.9	4038.3
65°	607.3	646.6	810.1	1731.3	2627.3	3384.3	3828.1	4031.9	4385.5	4479.3
67.5°	479.9	497.9	583.2	1329.2	2246.2	3288.8	4034.8	4427.9	4799.2	4873.5
70°	322.4	333.4	424.3	891.1	1671.1	2847.8	4030.9	4626.8	5012.2	5049.4
72.5°	169.9	178.4	248.1	412.6	1009.3	2024.3	3397.8	4389.0	4800.2	4744.3
75°	84.9	99.1	167.0	209.5	431.0	1128.9	2109.9	3460.4	3778.2	3561.6
77.5°	64.4	77.9	138.0	138.0	150.1	380.1	893.6	1887.3	1740.8	1449.6
80°	41.1	53.1	120.7	104.4	62.6	96.6	232.9	528.7	369.8	281.3
82.5°	24.1	34.7	100.5	69.0	35.0	35.7	65.8	112.5	95.9	74.7
85°	9.6	22.6	69.0	27.2	13.8	8.8	19.8	24.1	19.8	14.9
87.5°	0.0	5.3	12.0	0.0	1.1	0.7	1.4	1.8	1.8	1.4
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°
874.1	0°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
874.8	2.5°	878.0	878.7	880.8	881.2	876.2	869.9	867.4	866.3	862.1	861.7
880.5	5°	888.6	891.8	888.6	879.4	857.5	826.7	803.3	784.2	766.9	761.6
900.0	7.5°	909.9	913.1	903.5	867.4	812.2	751.0	695.8	656.8	621.8	608.7
923.7	10°	940.3	944.5	914.5	841.6	743.9	645.5	552.1	486.3	434.9	414.1
955.9	12.5°	978.5	980.3	920.5	802.3	655.1	514.6	382.2	311.8	266.1	249.1
994.8	15°	1020.6	1018.2	921.2	748.8	534.0	363.8	249.5	204.9	186.5	180.8
1033.7	17.5°	1064.9	1054.6	907.0	671.7	401.3	248.8	185.1	174.5	171.3	169.9
1072.3	20°	1108.4	1085.4	881.2	570.8	288.1	185.8	168.1	164.9	163.1	162.4
1111.2	22.5°	1148.0	1108.8	837.0	453.7	209.2	164.2	158.9	156.1	152.9	151.5
1149.1	25°	1186.6	1122.2	774.7	344.3	167.4	153.6	149.3	144.0	139.8	138.0
1189.8	27.5°	1224.1	1130.7	696.8	254.8	149.3	143.7	135.9	128.5	125.3	124.6
1233.3	30°	1264.1	1133.5	608.3	190.0	138.4	131.3	120.0	111.5	109.7	110.1
1292.1	32.5°	1313.0	1137.8	519.2	155.7	129.2	116.4	103.0	94.1	92.7	94.1
1377.7	35°	1371.3	1146.3	433.2	143.3	121.0	101.2	86.7	79.3	77.9	78.9
1487.4	37.5°	1450.6	1160.1	352.8	140.9	114.3	88.5	72.9	66.9	66.9	67.2
1621.9	40°	1556.1	1196.9	281.0	139.1	110.8	78.9	61.6	59.1	60.2	60.9
1793.2	42.5°	1684.5	1275.1	232.5	137.0	106.9	74.7	55.9	54.9	56.6	57.3
1998.4	45°	1828.6	1374.2	215.5	133.4	103.3	77.5	53.4	52.0	54.1	54.5
2228.5	47.5°	1977.6	1471.1	213.4	129.5	99.8	81.7	52.7	49.5	52.0	52.4
2474.1	50°	2128.3	1534.5	215.5	123.5	94.1	81.7	53.1	47.1	49.2	50.3
2728.9	52.5°	2280.2	1563.5	214.1	110.4	84.2	76.8	53.1	44.9	47.1	47.8
3004.2	55°	2427.4	1557.8	192.5	91.0	71.5	67.9	51.7	43.2	44.6	44.9
3264.3	57.5°	2543.8	1478.9	152.5	70.8	58.0	56.6	47.1	41.1	42.1	41.8
3502.9	60°	2604.7	1305.5	109.0	54.5	45.7	44.6	41.4	38.2	38.9	37.2
3704.9	62.5°	2605.4	1076.2	72.9	43.2	36.5	35.4	35.4	34.3	33.6	30.1
3861.4	65°	2549.8	821.7	48.5	34.3	29.4	27.6	29.7	29.4	26.9	21.9
3909.1	67.5°	2423.8	538.6	36.8	26.9	22.6	21.6	23.7	24.8	23.0	18.4
3735.0	70°	2164.8	313.6	30.4	20.9	17.0	15.9	19.1	21.2	19.1	14.9
3192.5	72.5°	1798.1	169.2	24.8	15.6	11.7	10.6	15.2	17.3	15.2	11.0
2048.3	75°	1166.8	90.6	19.1	10.3	6.0	6.7	11.3	12.7	10.6	7.1
601.3	77.5°	391.8	40.0	12.0	5.0	2.8	2.8	6.7	7.8	5.0	2.5
109.4	80°	87.4	16.6	5.0	2.1	1.1	1.1	1.4	1.4	0.7	0.0
33.6	82.5°	28.7	6.7	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
8.5	85°	11.0	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.8	87.5°	4.2	0.4	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>
874.1
862.4
758.4
603.4
405.2
243.8
180.8
169.5
161.7
151.1
137.3
123.9
110.1
93.8
78.6
66.9
60.9
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47.8
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