

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: P946441

Luminaire Tested: **GALN-SB2A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946441
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-SB2A-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6160 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

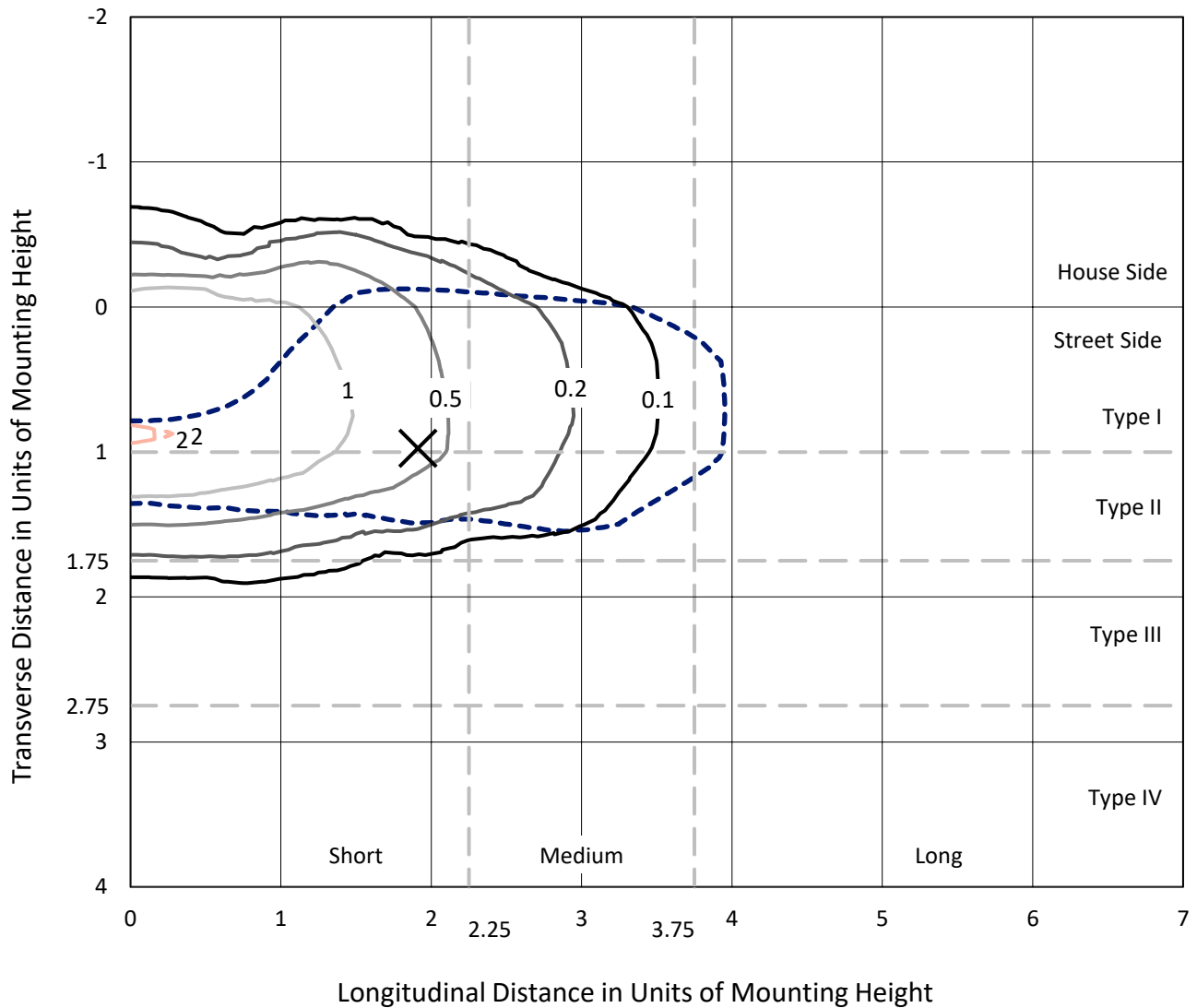
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

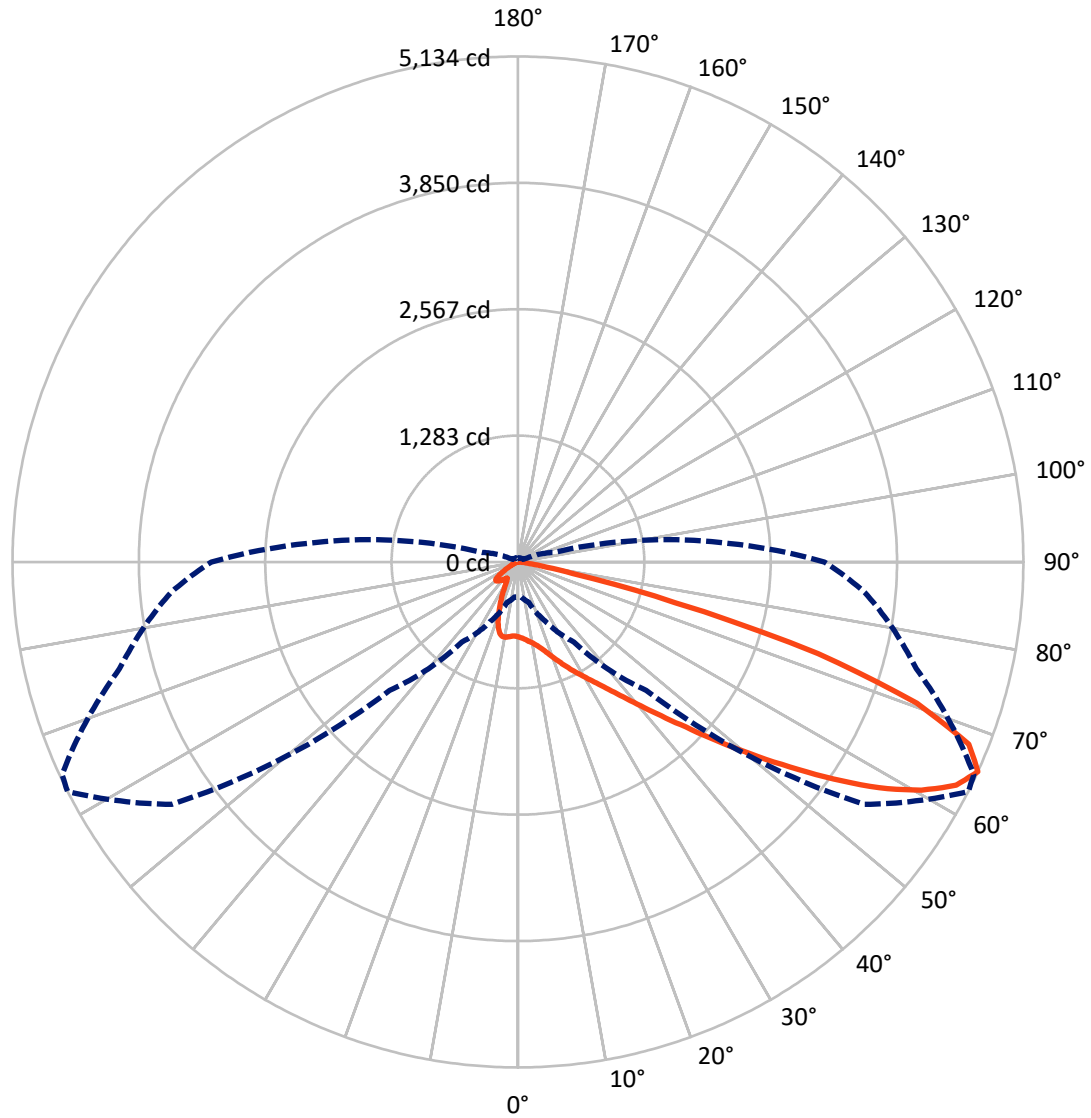
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	905.5	0.0	905.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5254.5	0.0	5254.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	6160.0	0.0	6160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.2
10°-20°	198.7	3.2
20°-30°	346.1	5.6
30°-40°	623.8	10.1
40°-50°	1237.1	20.1
50°-60°	1685.2	27.4
60°-70°	1345.1	21.8
70°-80°	608.7	9.9
80°-90°	43.7	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°	6160.0	100.0
0°-180°	6160.0	100.0

Coefficient of Utilization



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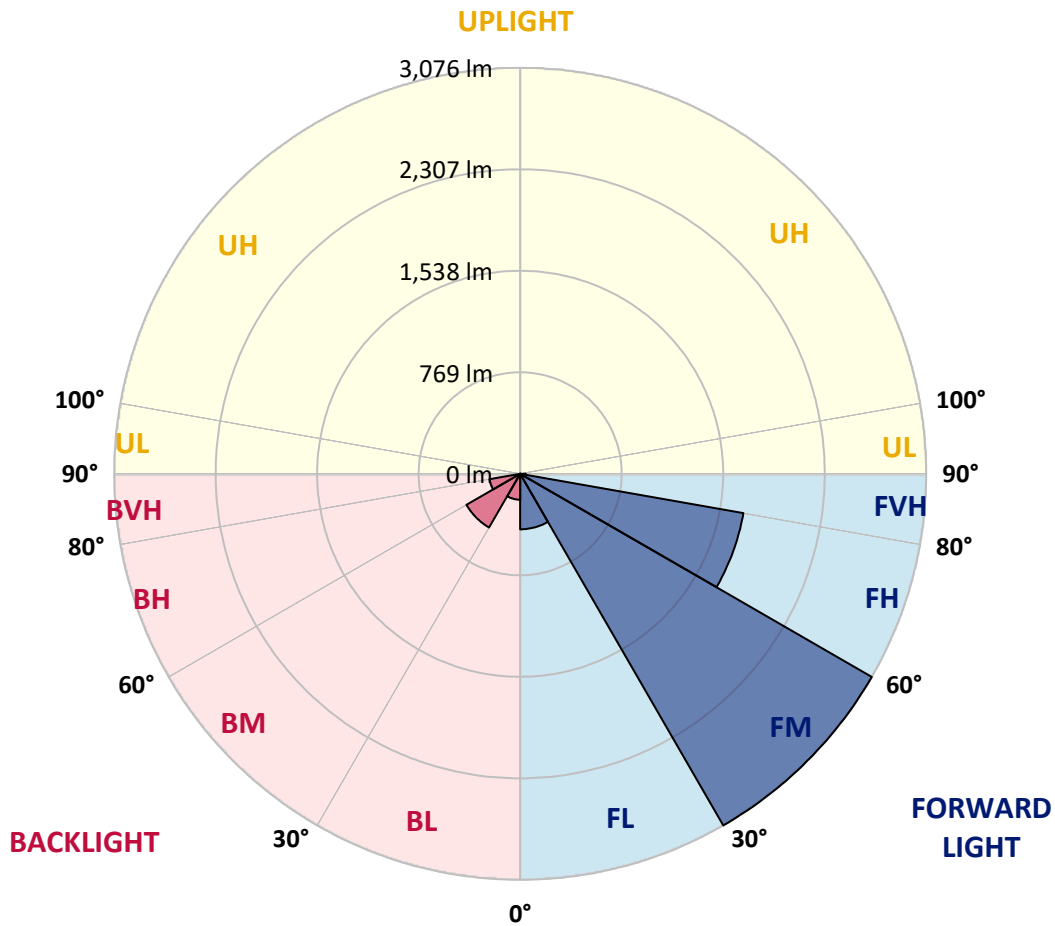
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.5	6.8			
FM (30°-60°)	3076.2	49.9			
FH (60°-80°)	1717.4	27.9			G1/1800
FVH (80°-90°)	40.5	0.7			G1/100
BL (0°-30°)	196.0	3.2	B1/500		
BM (30°-60°)	469.9	7.6	B1/1000		
BH (60°-80°)	236.4	3.8	B1/500		G1/500
BVH (80°-90°)	3.2	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°	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3
2.5°	778.1	775.9	778.9	777.6	776.8	775.1	774.2	773.4	771.7	770.4
5°	780.2	778.9	781.9	784.4	787.0	789.5	790.8	792.5	790.8	787.4
7.5°	762.4	761.5	767.9	775.5	787.0	796.7	807.3	813.2	813.7	812.4
10°	761.1	759.0	765.3	774.7	789.5	806.9	825.5	838.2	839.9	845.4
12.5°	781.0	778.9	787.8	798.0	813.2	831.5	854.3	872.1	874.7	882.3
15°	814.5	811.5	821.7	834.8	854.3	875.1	899.3	915.4	917.5	926.8
17.5°	853.5	850.5	862.4	876.4	897.6	926.0	953.9	971.7	974.3	980.2
20°	903.5	899.7	909.0	921.7	944.2	978.1	1011.6	1037.0	1036.6	1036.6
22.5°	961.6	955.6	963.7	973.8	995.0	1036.1	1080.6	1110.7	1110.7	1098.9
25°	1023.9	1017.9	1026.8	1036.1	1054.8	1101.4	1153.5	1190.8	1192.5	1172.2
27.5°	1101.8	1094.2	1101.0	1112.0	1123.0	1170.5	1232.4	1275.6	1276.4	1245.1
30°	1251.8	1230.2	1209.0	1197.2	1202.3	1249.3	1315.4	1363.3	1367.5	1324.3
32.5°	1526.5	1522.2	1447.6	1350.2	1299.3	1334.1	1408.2	1465.9	1468.4	1412.9
35°	1953.2	1948.1	1828.2	1642.6	1476.9	1447.6	1520.9	1589.2	1587.5	1524.8
37.5°	2462.6	2457.9	2299.9	2051.5	1783.3	1619.3	1666.3	1737.9	1748.5	1666.3
40°	2897.8	2880.4	2780.4	2541.0	2190.1	1904.0	1873.1	1920.6	1931.6	1834.1
42.5°	3227.5	3212.7	3161.8	3012.2	2682.5	2325.3	2116.8	2135.0	2147.3	2030.3
45°	3398.3	3394.9	3415.2	3401.3	3184.3	2842.3	2465.1	2389.3	2393.9	2247.7
47.5°	3422.4	3420.7	3513.6	3644.9	3615.7	3425.4	2912.2	2706.3	2689.7	2493.1
50°	3280.1	3276.7	3454.7	3700.9	3903.9	3915.3	3419.9	3063.5	3027.1	2746.9
52.5°	2825.3	2824.5	3116.9	3526.7	4005.1	4344.2	3921.7	3455.9	3394.9	3015.6
55°	2174.0	2189.7	2524.9	3009.3	3820.4	4550.5	4372.1	3891.6	3797.9	3286.0
57.5°	1540.0	1562.9	1894.3	2325.7	3247.4	4428.5	4676.8	4328.1	4227.2	3555.5
60°	827.2	847.6	1179.4	1694.3	2416.0	3973.4	4837.4	4706.9	4611.6	3811.5
62.5°	492.9	499.6	636.9	1093.8	1634.1	3035.5	4769.2	4995.5	4917.1	4026.3
65°	353.9	355.1	424.2	667.9	992.1	1844.3	4290.8	5133.7	5109.5	4188.2
67.5°	297.9	297.1	325.9	443.7	675.9	923.8	3288.5	4938.3	5040.9	4290.8
70°	255.5	256.8	290.7	325.0	508.1	522.9	1634.9	4299.7	4518.3	4317.9
72.5°	190.3	194.5	225.9	296.2	383.5	359.8	564.5	3188.1	3583.5	4068.3
75°	134.3	136.5	158.9	249.2	286.1	261.9	288.2	1648.1	2154.9	3119.0
77.5°	103.4	107.2	120.4	174.2	281.8	183.9	176.3	570.4	876.4	1884.1
80°	55.9	62.7	86.9	125.9	197.9	130.1	87.3	227.1	297.1	881.0
82.5°	28.8	32.2	60.6	90.7	112.7	113.6	43.2	94.5	122.5	272.1
85°	11.4	14.0	40.7	50.0	58.1	55.9	19.5	38.1	44.1	75.4
87.5°	2.5	4.2	14.8	11.4	11.0	11.9	4.7	8.9	8.5	8.9
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°
760.3	0°	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3	760.3
765.3	2.5°	764.9	763.2	758.6	753.5	747.5	744.2	742.0	741.6	738.6	736.5
782.3	5°	777.6	775.9	767.0	756.4	745.0	736.1	727.6	720.0	709.0	706.9
806.9	7.5°	803.1	798.4	784.0	769.6	748.0	722.1	690.8	654.7	622.5	612.8
839.5	10°	834.4	828.1	809.8	784.4	736.5	666.2	590.3	520.0	464.0	448.4
878.1	12.5°	870.0	864.5	840.4	793.3	688.6	561.1	445.0	357.7	303.4	289.9
919.2	15°	912.4	904.3	870.9	779.8	603.0	426.3	305.5	253.8	234.4	231.8
966.2	17.5°	957.3	944.2	898.0	731.0	487.8	303.0	236.0	221.2	212.7	210.2
1013.7	20°	998.4	981.5	914.1	657.3	364.5	236.0	211.5	201.7	194.1	191.1
1061.1	22.5°	1039.5	1015.4	914.1	556.8	273.3	209.3	194.1	185.2	176.3	172.5
1112.0	25°	1082.3	1050.1	898.0	445.0	219.9	192.0	177.6	167.8	160.2	155.5
1160.3	27.5°	1123.9	1079.4	861.1	339.0	195.8	176.7	162.3	153.0	145.8	142.4
1212.9	30°	1163.3	1108.2	809.4	257.2	180.1	161.9	148.3	140.3	133.1	129.7
1281.1	32.5°	1216.7	1144.6	754.3	211.0	166.5	147.9	135.6	128.0	121.6	119.1
1369.7	35°	1290.8	1198.4	706.9	207.2	155.1	136.5	124.2	117.0	110.6	108.5
1484.1	37.5°	1395.9	1285.3	681.9	232.7	145.8	126.3	114.8	107.2	101.3	99.6
1629.4	40°	1525.6	1403.1	695.4	258.1	139.4	117.4	106.4	98.7	93.7	91.5
1796.4	42.5°	1679.4	1548.5	770.4	277.6	135.2	109.8	98.3	89.8	86.5	85.6
1985.8	45°	1856.2	1708.3	885.3	298.3	128.4	102.6	90.3	83.9	81.4	80.9
2191.8	47.5°	2057.0	1883.7	1018.3	324.2	121.6	95.8	83.9	79.7	77.6	76.7
2406.6	50°	2256.2	2060.4	1155.2	338.6	116.1	89.4	78.8	75.4	73.7	73.3
2633.8	52.5°	2464.7	2242.2	1265.8	325.0	111.5	84.3	74.6	72.0	70.3	69.9
2843.1	55°	2663.5	2389.3	1284.9	275.9	102.1	79.2	69.9	68.7	66.5	66.5
3055.5	57.5°	2834.7	2463.0	1150.1	202.6	92.8	71.6	65.3	64.0	62.3	61.9
3247.0	60°	2991.9	2441.8	887.8	136.5	82.6	64.0	59.3	58.5	56.8	54.7
3413.5	62.5°	3080.5	2348.6	607.3	89.0	72.5	55.9	52.5	52.1	48.3	44.1
3536.9	65°	3113.9	2157.0	378.9	64.8	60.6	47.9	45.3	44.5	39.0	34.3
3606.8	67.5°	3084.7	1841.7	191.1	51.3	47.9	39.8	37.3	37.3	33.5	29.2
3602.5	70°	2967.7	1380.7	80.5	41.1	36.9	30.5	30.5	32.2	28.4	23.7
3415.7	72.5°	2713.9	928.9	42.8	31.4	27.5	21.6	25.0	26.3	22.5	17.8
2795.7	75°	2157.5	566.6	29.7	23.3	17.4	15.3	19.1	19.9	15.3	11.9
1916.8	77.5°	1475.6	325.5	19.9	14.8	11.0	8.9	13.1	12.3	8.1	5.5
739.1	80°	648.0	135.6	11.4	6.8	4.2	3.4	4.7	3.4	2.5	1.7
101.3	82.5°	75.9	31.8	4.2	2.5	1.7	0.8	0.4	0.0	0.0	0.0
30.9	85°	15.7	3.8	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	3.0	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>
760.3
738.6
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442.4
286.1
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208.9
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170.4
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130.1
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