

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: P945351

Luminaire Tested: **GALN-SB1B-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945351  
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-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

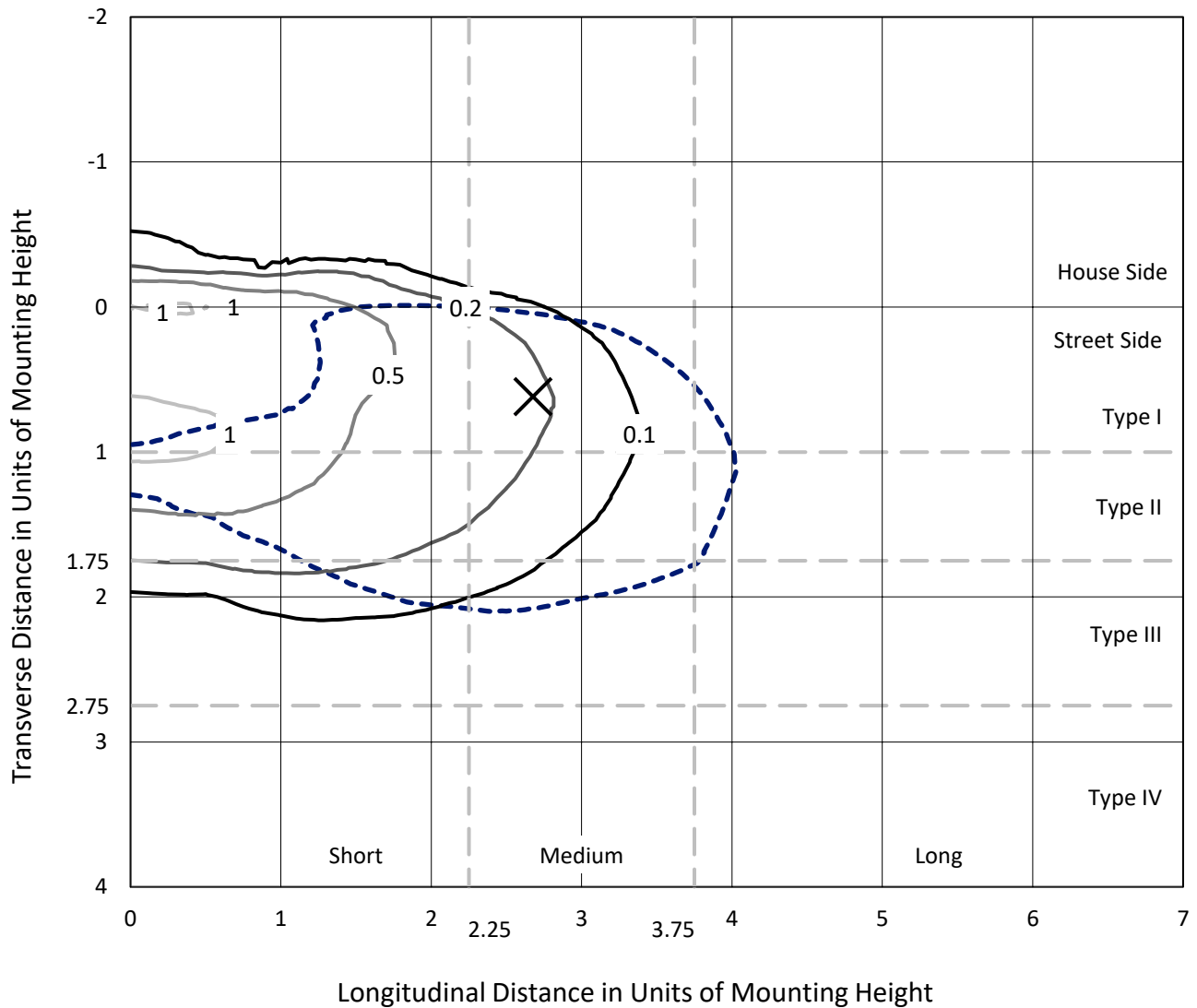
Lumens per Lamp: N/A  
Luminaire Lumens: 4078 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

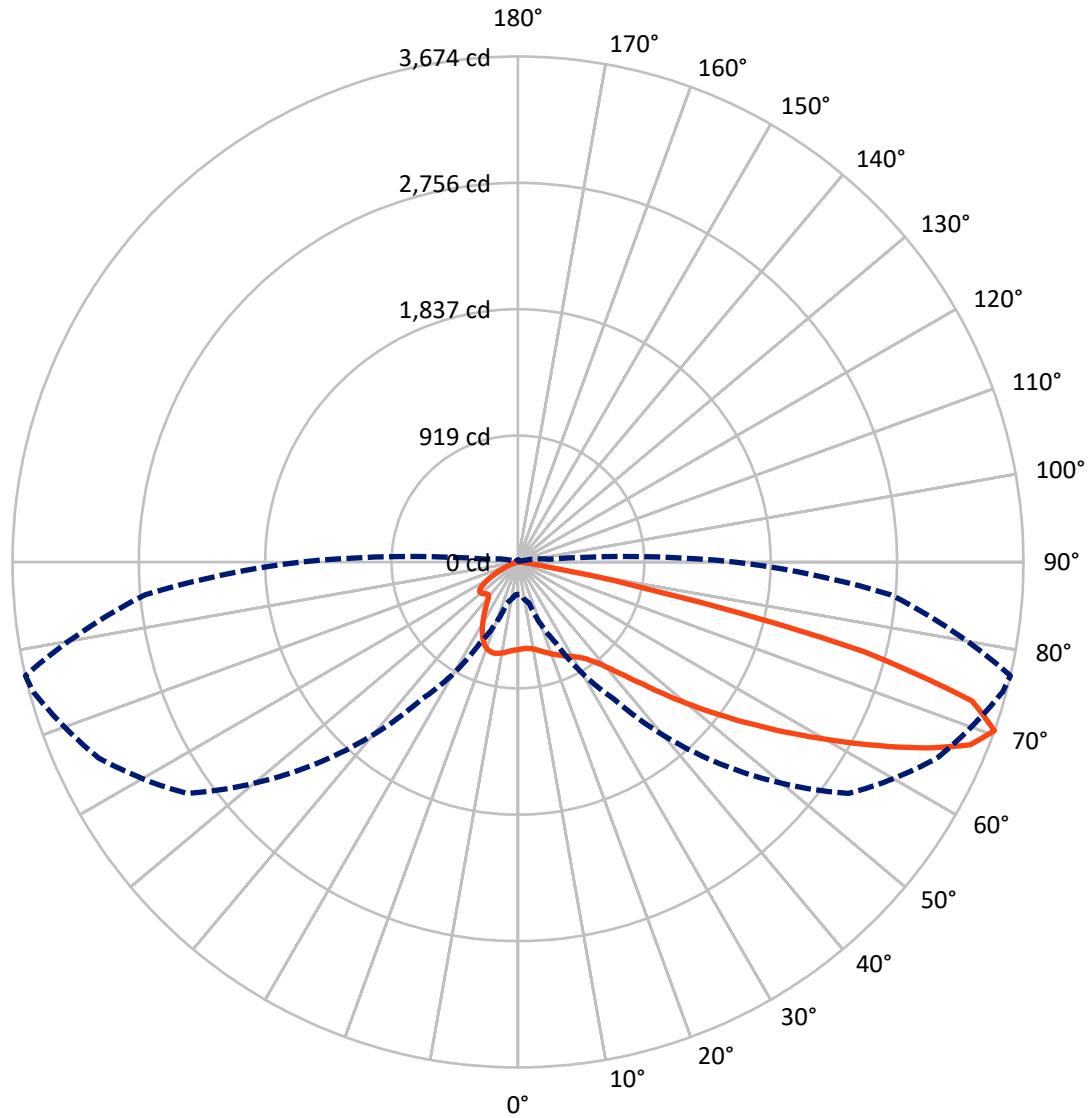
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
<b>House Side</b>	Lumens	429.9	0.0	429.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3648.1	0.0	3648.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4078.0	0.0	4078.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	1.3
10°-20°	130.1	3.2
20°-30°	201.3	4.9
30°-40°	365.3	9.0
40°-50°	689.5	16.9
50°-60°	996.2	24.4
60°-70°	1060.4	26.0
70°-80°	562.0	13.8
80°-90°	18.4	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°	4078.0	100.0
0°-180°	4078.0	100.0

**Coefficient of Utilization**



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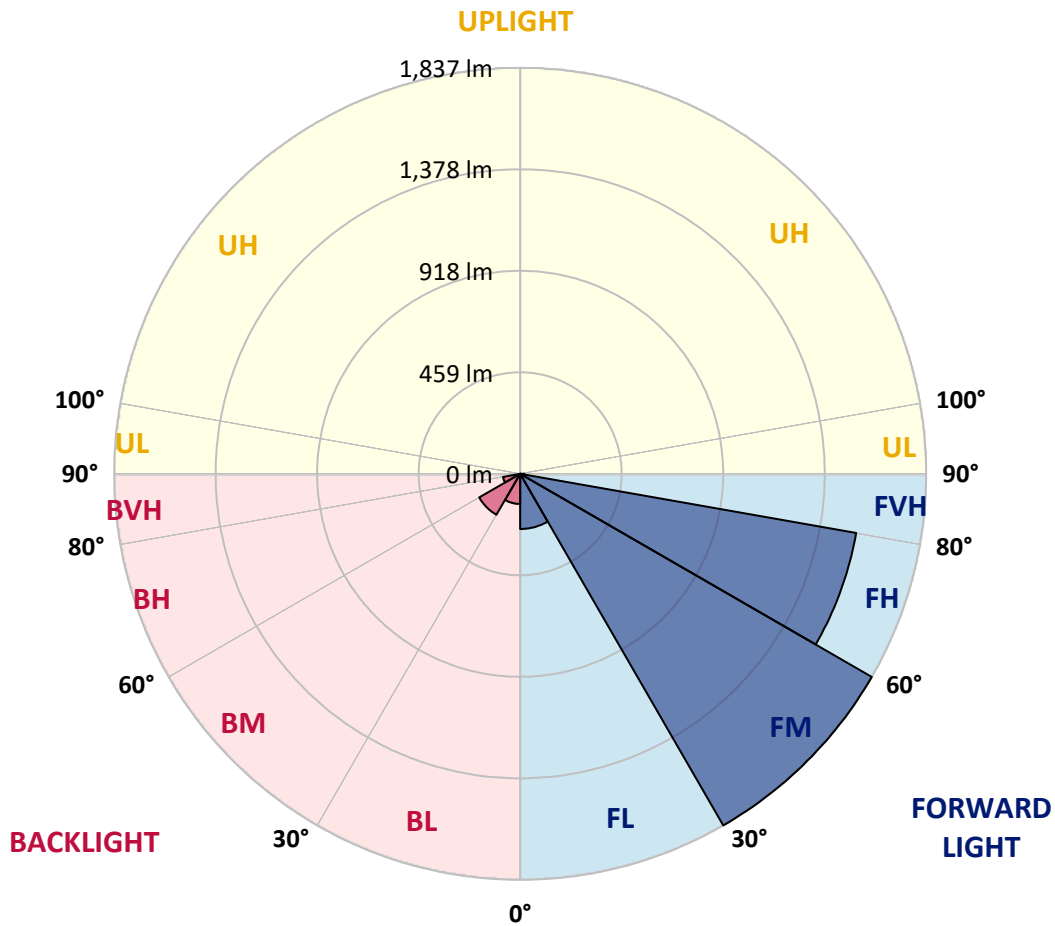
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.7	6.1			
FM (30°-60°)	1836.9	45.0			
FH (60°-80°)	1543.6	37.9			G1/1800
FVH (80°-90°)	18.0	0.4			G1/100
BL (0°-30°)	136.6	3.3	B1/500		
BM (30°-60°)	214.0	5.2	B0/220		
BH (60°-80°)	78.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
2.5°	597.2	602.6	601.8	605.4	606.7	611.9	617.0	624.0	631.7	631.5
5°	563.5	568.9	570.2	575.1	581.2	589.2	599.8	613.7	628.1	630.4
7.5°	523.6	529.2	532.6	542.4	553.7	570.2	587.4	607.8	631.7	635.1
10°	483.6	488.8	493.2	507.1	525.1	549.6	577.6	607.0	639.2	644.1
12.5°	458.9	463.8	468.7	480.8	503.2	533.1	571.2	610.6	651.5	658.5
15°	450.2	454.5	458.4	469.2	490.1	524.1	569.9	618.1	667.3	676.5
17.5°	451.4	453.8	456.3	464.6	484.9	519.9	572.2	630.9	685.8	694.0
20°	458.9	460.2	460.5	466.1	484.2	519.4	576.9	643.3	703.3	714.4
22.5°	468.4	469.0	468.4	472.3	489.0	523.3	583.0	658.2	722.9	733.2
25°	513.0	503.2	490.8	483.4	497.3	530.8	592.3	678.3	744.3	754.3
27.5°	651.3	623.2	578.9	529.2	514.3	541.6	605.2	698.7	765.9	774.9
30°	875.9	839.0	763.8	651.8	568.9	564.2	621.9	719.0	788.8	798.6
32.5°	1100.9	1091.9	1005.1	850.1	691.7	614.7	649.7	746.6	819.2	826.9
35°	1328.6	1310.3	1239.2	1086.0	881.0	717.5	696.1	782.6	859.1	867.9
37.5°	1502.9	1491.9	1447.8	1321.6	1105.6	876.1	775.4	838.5	917.1	926.8
40°	1656.9	1651.8	1636.8	1553.7	1356.7	1083.7	898.8	925.0	997.4	1009.0
42.5°	1778.0	1790.1	1798.6	1775.4	1615.5	1320.6	1064.6	1046.6	1109.4	1121.3
45°	1901.8	1906.0	1940.2	1973.7	1872.5	1568.3	1251.6	1189.0	1248.8	1263.4
47.5°	1981.4	1997.9	2058.2	2117.1	2088.6	1814.0	1452.5	1357.2	1410.2	1437.8
50°	1987.3	2018.5	2101.4	2204.2	2245.9	2047.9	1670.8	1548.8	1605.2	1635.6
52.5°	1888.7	1937.1	2065.6	2216.0	2330.9	2245.9	1896.7	1740.4	1812.7	1852.4
55°	1448.1	1511.4	1930.9	2151.6	2334.2	2396.0	2116.6	1940.0	2044.0	2088.8
57.5°	1261.6	1293.6	1518.1	2039.9	2272.2	2456.6	2315.4	2130.0	2295.6	2351.2
60°	1049.7	1091.7	1273.2	1857.0	2188.0	2462.5	2491.1	2375.2	2568.3	2630.9
62.5°	713.4	758.9	939.5	1542.9	2072.8	2459.7	2635.0	2627.6	2871.4	2938.7
65°	441.9	470.5	589.5	1259.8	1911.9	2462.7	2785.7	2934.0	3191.3	3259.5
67.5°	349.2	362.3	424.4	967.3	1634.5	2393.2	2936.1	3222.2	3492.3	3546.4
70°	234.6	242.6	308.8	648.5	1216.0	2072.3	2933.2	3366.9	3647.4	3674.4
72.5°	123.6	129.8	180.5	300.3	734.5	1473.1	2472.5	3193.9	3493.1	3452.4
75°	61.8	72.1	121.6	152.5	313.7	821.5	1535.4	2518.1	2749.4	2591.8
77.5°	46.9	56.7	100.4	100.4	109.2	276.6	650.3	1373.4	1266.8	1054.8
80°	29.9	38.6	87.8	76.0	45.6	70.3	169.5	384.7	269.1	204.7
82.5°	17.5	25.2	73.1	50.2	25.5	26.0	47.9	81.9	69.8	54.3
85°	7.0	16.5	50.2	19.8	10.0	6.4	14.4	17.5	14.4	10.8
87.5°	0.0	3.9	8.8	0.0	0.8	0.5	1.0	1.3	1.3	1.0
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°
636.1	0°	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
636.6	2.5°	638.9	639.4	641.0	641.2	637.6	633.0	631.2	630.4	627.3	627.1
640.7	5°	646.7	649.0	646.7	640.0	624.0	601.6	584.6	570.7	558.1	554.2
654.9	7.5°	662.1	664.4	657.5	631.2	591.0	546.5	506.3	478.0	452.5	442.9
672.1	10°	684.3	687.3	665.5	612.4	541.3	469.7	401.7	353.8	316.5	301.3
695.6	12.5°	712.1	713.4	669.8	583.8	476.7	374.4	278.1	226.9	193.7	181.3
723.9	15°	742.7	740.9	670.3	544.9	388.6	264.7	181.6	149.1	135.7	131.6
752.2	17.5°	774.9	767.4	660.0	488.8	292.0	181.0	134.7	127.0	124.6	123.6
780.3	20°	806.6	789.8	641.2	415.4	209.6	135.2	122.3	120.0	118.7	118.2
808.6	22.5°	835.4	806.8	609.1	330.2	152.2	119.5	115.6	113.6	111.3	110.2
836.2	25°	863.5	816.6	563.7	250.6	121.8	111.8	108.7	104.8	101.7	100.4
865.8	27.5°	890.8	822.8	507.1	185.4	108.7	104.6	98.9	93.5	91.2	90.6
897.5	30°	919.9	824.9	442.7	138.3	100.7	95.5	87.3	81.1	79.8	80.1
940.2	32.5°	955.4	828.0	377.8	113.3	94.0	84.7	74.9	68.5	67.5	68.5
1002.6	35°	997.9	834.1	315.2	104.3	88.1	73.7	63.1	57.7	56.7	57.4
1082.4	37.5°	1055.6	844.2	256.8	102.5	83.2	64.4	53.1	48.7	48.7	48.9
1180.3	40°	1132.4	871.0	204.5	101.2	80.6	57.4	44.8	43.0	43.8	44.3
1304.9	42.5°	1225.8	927.9	169.2	99.7	77.8	54.3	40.7	39.9	41.2	41.7
1454.3	45°	1330.6	1000.0	156.8	97.1	75.2	56.4	38.9	37.9	39.4	39.7
1621.7	47.5°	1439.1	1070.5	155.3	94.3	72.6	59.5	38.4	36.1	37.9	38.1
1800.4	50°	1548.8	1116.6	156.8	89.9	68.5	59.5	38.6	34.3	35.8	36.6
1985.8	52.5°	1659.3	1137.8	155.8	80.3	61.3	55.9	38.6	32.7	34.3	34.8
2186.2	55°	1766.4	1133.6	140.1	66.2	52.0	49.4	37.6	31.4	32.4	32.7
2375.4	57.5°	1851.1	1076.2	111.0	51.5	42.2	41.2	34.3	29.9	30.6	30.4
2549.0	60°	1895.4	950.0	79.3	39.7	33.2	32.4	30.1	27.8	28.3	27.0
2696.1	62.5°	1895.9	783.1	53.1	31.4	26.5	25.8	25.8	25.0	24.5	21.9
2809.9	65°	1855.5	598.0	35.3	25.0	21.4	20.1	21.6	21.4	19.6	16.0
2844.7	67.5°	1763.8	392.0	26.8	19.6	16.5	15.7	17.3	18.0	16.7	13.4
2718.0	70°	1575.3	228.2	22.1	15.2	12.4	11.6	13.9	15.5	13.9	10.8
2323.2	72.5°	1308.5	123.1	18.0	11.3	8.5	7.7	11.1	12.6	11.1	8.0
1490.6	75°	849.1	65.9	13.9	7.5	4.4	4.9	8.2	9.3	7.7	5.2
437.5	77.5°	285.1	29.1	8.8	3.6	2.1	2.1	4.9	5.7	3.6	1.8
79.6	80°	63.6	12.1	3.6	1.5	0.8	0.8	1.0	1.0	0.5	0.0
24.5	82.5°	20.9	4.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6.2	85°	8.0	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	87.5°	3.1	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>
636.1
627.6
551.9
439.1
294.9
177.4
131.6
123.4
117.7
110.0
99.9
90.1
80.1
68.2
57.2
48.7
44.3
41.7
39.9
38.4
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34.8
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