

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: P945013

Luminaire Tested: **GALN-SB1A-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945013  
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-SB1A-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

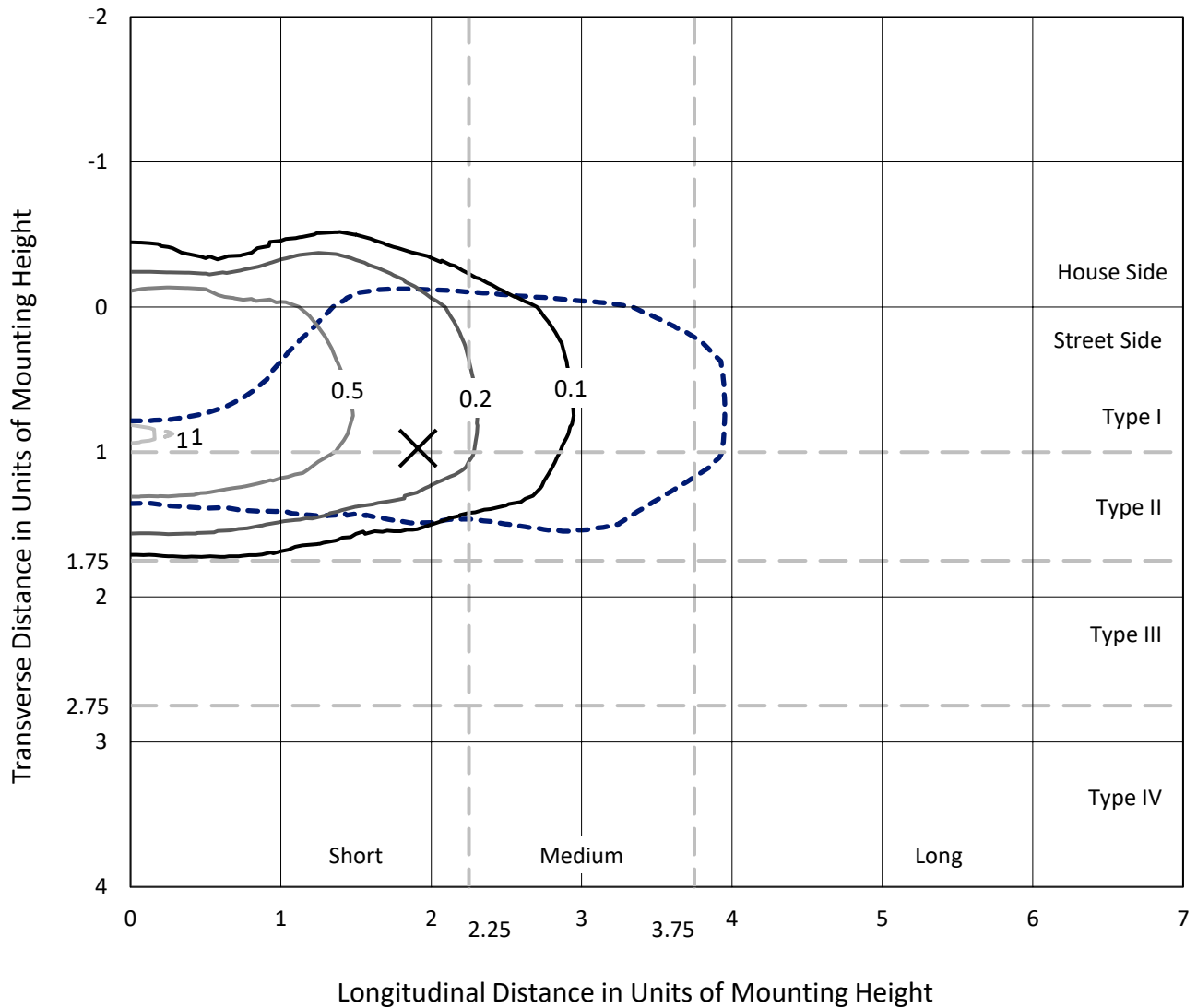
Lumens per Lamp: N/A  
Luminaire Lumens: 3081 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

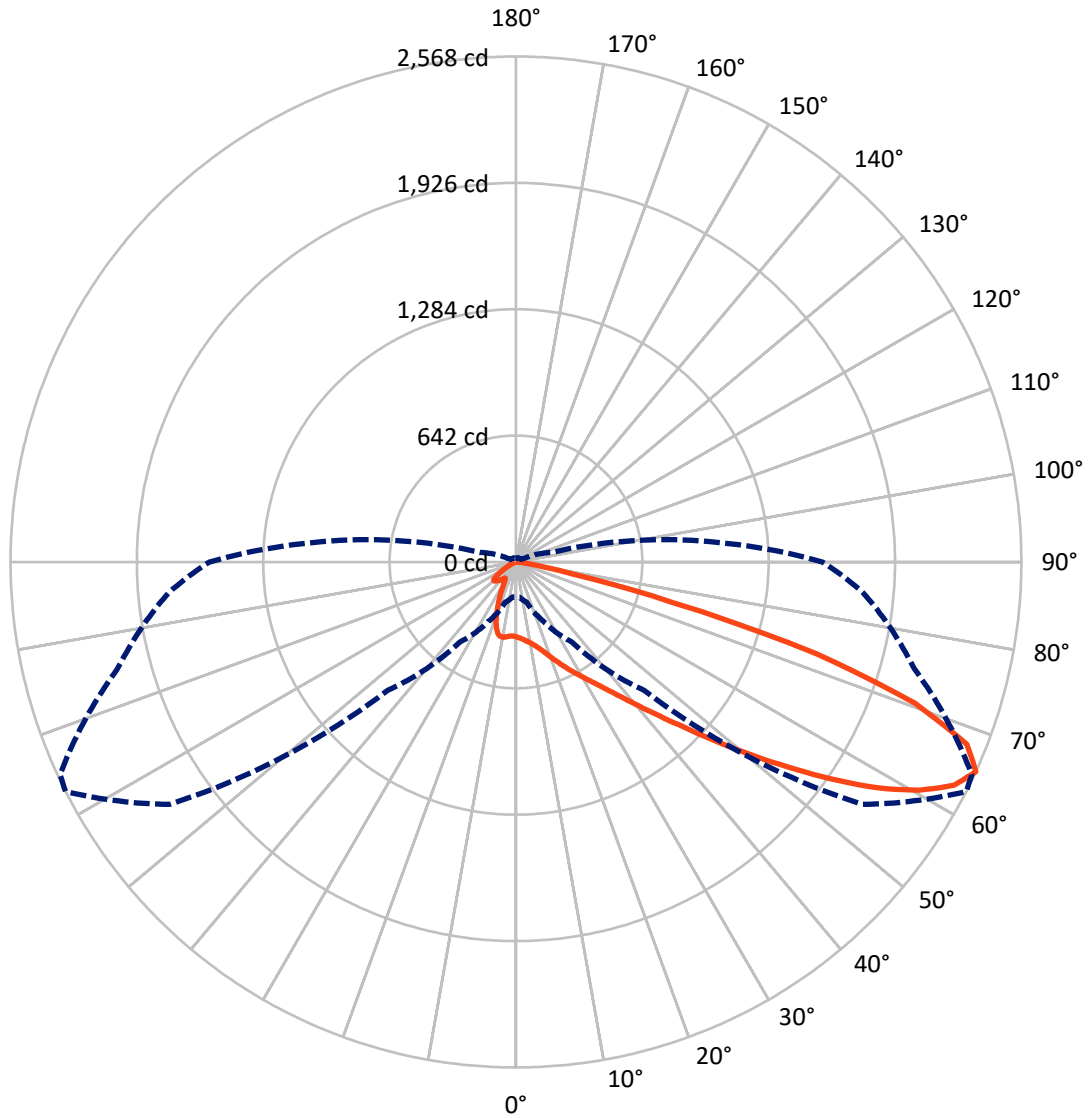
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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
<b>House Side</b>	Lumens	452.9	0.0	452.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	2628.1	0.0	2628.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	3081.0	0.0	3081.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.8	1.2
10°-20°	99.4	3.2
20°-30°	173.1	5.6
30°-40°	312.0	10.1
40°-50°	618.8	20.1
50°-60°	842.9	27.4
60°-70°	672.8	21.8
70°-80°	304.4	9.9
80°-90°	21.9	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°	3081.0	100.0
0°-180°	3081.0	100.0

**Coefficient of Utilization**

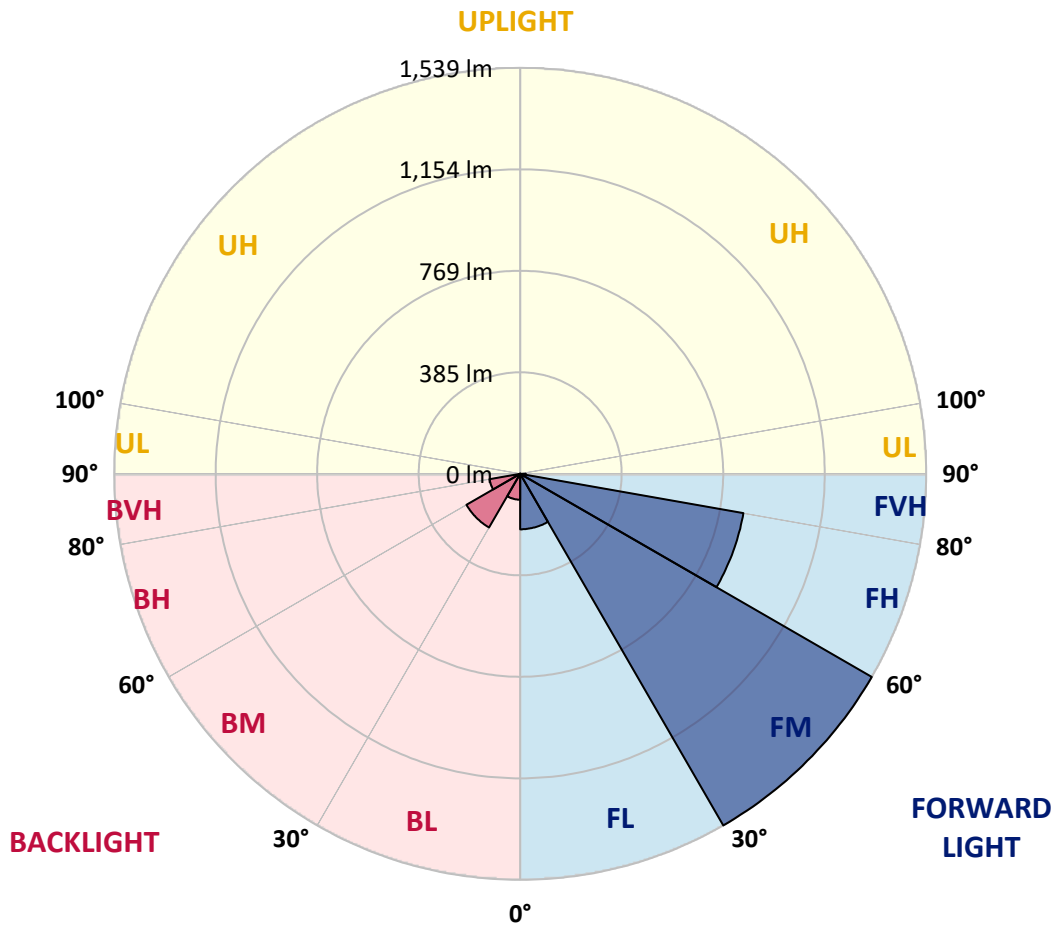


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.3	6.8			
FM (30°-60°)	1538.6	49.9			
FH (60°-80°)	859.0	27.9			G1/1800
FVH (80°-90°)	20.3	0.7			G1/100
BL (0°-30°)	98.0	3.2	B0/110		
BM (30°-60°)	235.0	7.6	B1/1000		
BH (60°-80°)	118.2	3.8	B1/500		G1/500
BVH (80°-90°)	1.6	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°	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3
2.5°	389.2	388.1	389.6	388.9	388.5	387.7	387.2	386.8	386.0	385.3
5°	390.2	389.6	391.1	392.3	393.6	394.9	395.5	396.4	395.5	393.8
7.5°	381.3	380.9	384.1	387.9	393.6	398.5	403.8	406.7	407.0	406.3
10°	380.7	379.6	382.8	387.5	394.9	403.6	412.9	419.3	420.1	422.9
12.5°	390.6	389.6	394.0	399.1	406.7	415.9	427.3	436.2	437.5	441.3
15°	407.4	405.9	411.0	417.6	427.3	437.7	449.8	457.8	458.9	463.6
17.5°	426.9	425.4	431.3	438.3	448.9	463.1	477.1	486.0	487.3	490.3
20°	451.9	450.0	454.7	461.0	472.2	489.2	505.9	518.7	518.5	518.5
22.5°	480.9	478.0	482.0	487.1	497.7	518.2	540.5	555.5	555.5	549.6
25°	512.1	509.1	513.6	518.2	527.6	550.9	577.0	595.6	596.5	586.3
27.5°	551.1	547.3	550.7	556.2	561.7	585.4	616.4	638.0	638.4	622.7
30°	626.1	615.3	604.7	598.8	601.3	624.9	657.9	681.9	684.0	662.4
32.5°	763.5	761.4	724.1	675.3	649.9	667.2	704.3	733.2	734.4	706.7
35°	976.9	974.4	914.4	821.6	738.7	724.1	760.7	794.8	794.0	762.6
37.5°	1231.7	1229.4	1150.3	1026.1	891.9	809.9	833.4	869.2	874.5	833.4
40°	1449.4	1440.7	1390.7	1270.9	1095.4	952.3	936.9	960.6	966.1	917.4
42.5°	1614.3	1606.9	1581.4	1506.6	1341.7	1163.0	1058.7	1067.8	1074.0	1015.5
45°	1699.7	1698.0	1708.2	1701.2	1592.7	1421.6	1233.0	1195.0	1197.4	1124.2
47.5°	1711.8	1710.9	1757.3	1823.1	1808.4	1713.3	1456.6	1353.6	1345.3	1247.0
50°	1640.6	1638.9	1727.9	1851.0	1952.6	1958.3	1710.5	1532.2	1514.0	1373.9
52.5°	1413.1	1412.7	1559.0	1763.9	2003.2	2172.8	1961.5	1728.5	1698.0	1508.3
55°	1087.3	1095.2	1262.8	1505.1	1910.8	2276.0	2186.8	1946.4	1899.6	1643.5
57.5°	770.3	781.7	947.5	1163.2	1624.2	2215.0	2339.2	2164.7	2114.3	1778.3
60°	413.7	423.9	589.9	847.4	1208.4	1987.3	2419.5	2354.2	2306.5	1906.4
62.5°	246.5	249.9	318.6	547.1	817.3	1518.3	2385.4	2498.6	2459.4	2013.8
65°	177.0	177.6	212.2	334.0	496.2	922.4	2146.1	2567.7	2555.6	2094.8
67.5°	149.0	148.6	163.0	221.9	338.1	462.1	1644.8	2470.0	2521.2	2146.1
70°	127.8	128.4	145.4	162.6	254.1	261.6	817.7	2150.5	2259.9	2159.6
72.5°	95.2	97.3	113.0	148.2	191.8	180.0	282.3	1594.6	1792.3	2034.8
75°	67.2	68.3	79.5	124.6	143.1	131.0	144.1	824.3	1077.8	1560.0
77.5°	51.7	53.6	60.2	87.1	141.0	92.0	88.2	285.3	438.3	942.4
80°	28.0	31.4	43.5	63.0	99.0	65.1	43.7	113.6	148.6	440.7
82.5°	14.4	16.1	30.3	45.4	56.4	56.8	21.6	47.3	61.3	136.1
85°	5.7	7.0	20.3	25.0	29.0	28.0	9.8	19.1	22.0	37.7
87.5°	1.3	2.1	7.4	5.7	5.5	5.9	2.3	4.5	4.2	4.5
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°
380.3	0°	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3
382.8	2.5°	382.6	381.7	379.4	376.9	373.9	372.2	371.1	370.9	369.4	368.4
391.3	5°	388.9	388.1	383.6	378.3	372.6	368.2	363.9	360.1	354.6	353.5
403.6	7.5°	401.7	399.3	392.1	384.9	374.1	361.2	345.5	327.5	311.4	306.5
419.9	10°	417.3	414.2	405.1	392.3	368.4	333.2	295.3	260.1	232.1	224.3
439.2	12.5°	435.2	432.4	420.3	396.8	344.4	280.6	222.6	178.9	151.8	145.0
459.7	15°	456.3	452.3	435.6	390.0	301.6	213.2	152.8	127.0	117.2	115.9
483.3	17.5°	478.8	472.2	449.1	365.6	244.0	151.6	118.1	110.6	106.4	105.1
507.0	20°	499.4	490.9	457.2	328.7	182.3	118.1	105.8	100.9	97.1	95.6
530.7	22.5°	519.9	507.9	457.2	278.5	136.7	104.7	97.1	92.6	88.2	86.3
556.2	25°	541.3	525.2	449.1	222.6	110.0	96.0	88.8	83.9	80.1	77.8
580.3	27.5°	562.1	539.9	430.7	169.6	97.9	88.4	81.2	76.5	72.9	71.2
606.6	30°	581.8	554.3	404.8	128.7	90.1	81.0	74.2	70.2	66.6	64.9
640.8	32.5°	608.5	572.5	377.3	105.6	83.3	74.0	67.8	64.0	60.8	59.6
685.0	35°	645.6	599.4	353.5	103.6	77.6	68.3	62.1	58.5	55.3	54.3
742.3	37.5°	698.2	642.9	341.0	116.4	72.9	63.2	57.4	53.6	50.7	49.8
815.0	40°	763.1	701.8	347.8	129.1	69.7	58.7	53.2	49.4	46.8	45.8
898.5	42.5°	840.0	774.5	385.3	138.8	67.6	54.9	49.2	44.9	43.2	42.8
993.2	45°	928.4	854.4	442.8	149.2	64.2	51.3	45.1	42.0	40.7	40.5
1096.2	47.5°	1028.8	942.2	509.3	162.1	60.8	47.9	42.0	39.8	38.8	38.4
1203.7	50°	1128.5	1030.5	577.8	169.4	58.1	44.7	39.4	37.7	36.9	36.7
1317.3	52.5°	1232.8	1121.5	633.1	162.6	55.7	42.2	37.3	36.0	35.2	35.0
1422.0	55°	1332.2	1195.0	642.7	138.0	51.1	39.6	35.0	34.3	33.3	33.3
1528.2	57.5°	1417.8	1231.9	575.3	101.3	46.4	35.8	32.6	32.0	31.2	30.9
1624.0	60°	1496.4	1221.3	444.1	68.3	41.3	32.0	29.7	29.3	28.4	27.3
1707.3	62.5°	1540.7	1174.7	303.7	44.5	36.2	28.0	26.3	26.1	24.2	22.0
1769.0	65°	1557.5	1078.9	189.5	32.4	30.3	24.0	22.7	22.3	19.5	17.2
1804.0	67.5°	1542.8	921.2	95.6	25.6	24.0	19.9	18.7	18.7	16.7	14.6
1801.9	70°	1484.3	690.6	40.3	20.6	18.4	15.3	15.3	16.1	14.2	11.9
1708.4	72.5°	1357.4	464.6	21.4	15.7	13.8	10.8	12.5	13.1	11.2	8.9
1398.3	75°	1079.1	283.4	14.8	11.7	8.7	7.6	9.5	10.0	7.6	5.9
958.7	77.5°	738.0	162.8	10.0	7.4	5.5	4.5	6.6	6.1	4.0	2.8
369.7	80°	324.1	67.8	5.7	3.4	2.1	1.7	2.3	1.7	1.3	0.8
50.7	82.5°	37.9	15.9	2.1	1.3	0.8	0.4	0.2	0.0	0.0	0.0
15.5	85°	7.8	1.9	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0
2.8	87.5°	1.5	0.4	0.2	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

180°  
380.3  
369.4  
353.1  
304.2  
221.3  
143.1  
114.7  
104.5  
94.7  
85.2  
76.9  
71.2  
65.1  
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54.3  
49.6  
45.6  
42.8  
40.3  
38.4  
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