

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: P939041

Luminaire Tested: **GALN-SB1B-950-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-950-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

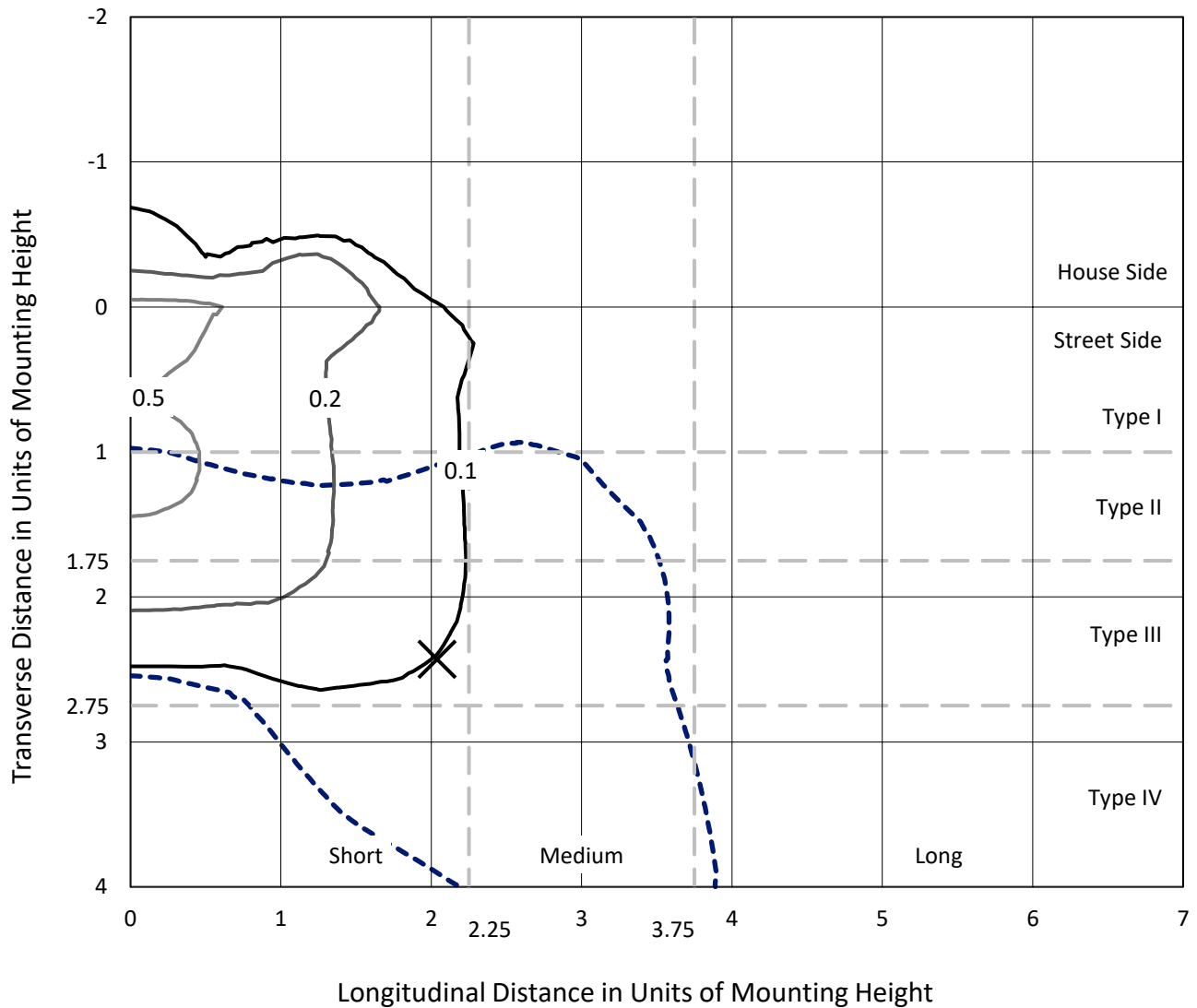
Lumens per Lamp: N/A  
Luminaire Lumens: 2735 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

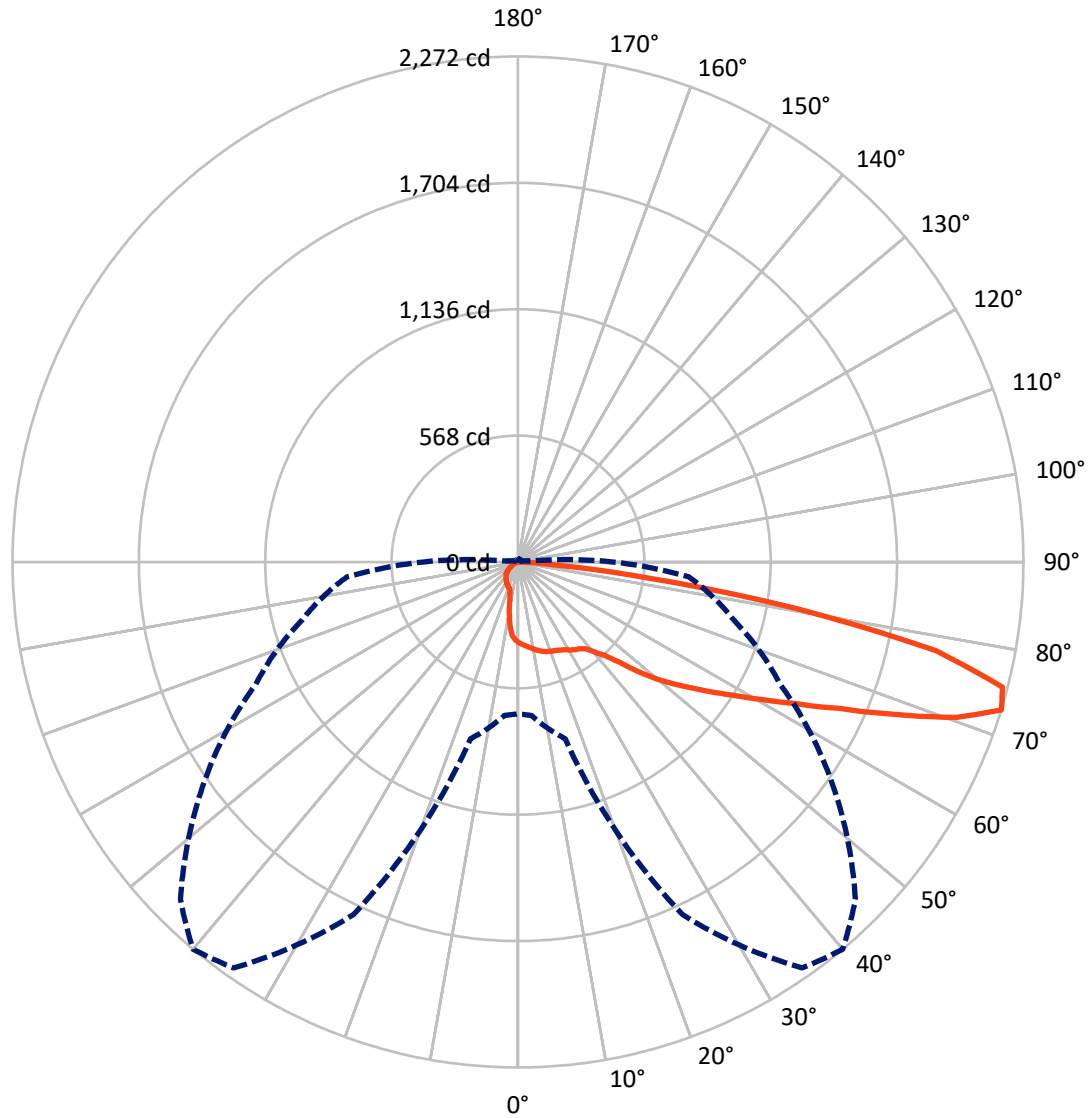
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	353.2	0.0	353.2
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2381.8	0.0	2381.8
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	2735.0	0.0	2735.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.1	1.2
10°-20°	89.8	3.3
20°-30°	145.3	5.3
30°-40°	214.6	7.8
40°-50°	361.1	13.2
50°-60°	560.7	20.5
60°-70°	701.6	25.7
70°-80°	574.4	21.0
80°-90°	54.5	2.0
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°	2735.0	100.0
0°-180°	2735.0	100.0

**Coefficient of Utilization**



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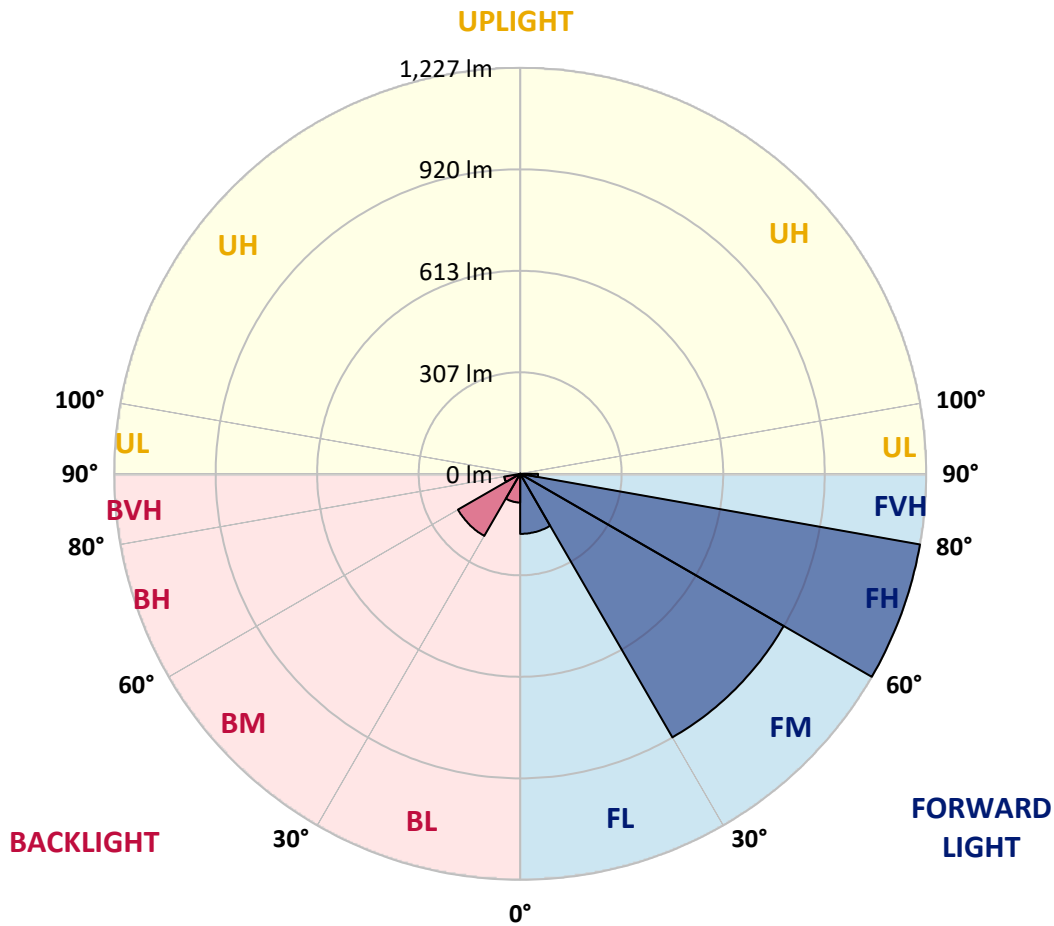
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.5	6.6			
FM (30°-60°)	919.5	33.6			
FH (60°-80°)	1226.8	44.9			G1/1800
FVH (80°-90°)	54.0	2.0			G1/100
BL (0°-30°)	86.7	3.2	B0/110		
BM (30°-60°)	216.9	7.9	B0/220		
BH (60°-80°)	49.2	1.8	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	362.1	362.1	362.1	362.1	362.1	362.1	362.1	362.1	362.1	362.1
2.5°	373.1	374.5	373.7	372.0	371.6	370.8	369.8	369.3	367.9	366.7
5°	383.6	385.0	384.0	381.7	380.7	379.6	378.2	377.0	374.1	371.4
7.5°	395.1	396.3	395.1	391.8	390.2	388.9	386.9	385.0	381.7	377.8
10°	407.9	408.9	407.0	402.7	400.0	398.2	396.3	394.3	391.2	386.9
12.5°	419.8	421.1	418.2	413.0	409.9	408.1	406.0	404.4	401.3	397.2
15°	430.7	432.6	427.6	422.1	418.6	417.1	415.1	414.0	412.0	409.1
17.5°	439.0	440.2	435.1	428.5	424.6	423.5	422.1	422.7	422.3	420.8
20°	446.0	446.8	440.0	432.0	427.6	427.8	427.4	429.5	430.3	430.3
22.5°	454.6	454.8	446.2	436.1	430.9	432.4	433.0	435.3	436.9	438.6
25°	466.0	465.5	455.2	441.4	436.9	439.0	440.4	441.2	443.1	445.8
27.5°	482.8	481.6	468.4	450.1	444.7	446.6	449.3	448.9	448.0	450.1
30°	504.3	502.6	485.1	462.2	457.3	459.0	459.8	456.1	450.1	451.9
32.5°	538.3	535.4	511.1	475.8	468.2	470.1	469.0	461.4	452.6	454.4
35°	597.4	590.4	556.0	504.3	480.6	478.5	476.1	468.6	457.7	455.9
37.5°	723.0	710.7	652.0	559.7	508.6	495.2	487.6	480.2	463.3	455.9
40°	864.8	852.2	784.4	652.4	555.2	532.5	514.4	493.8	469.0	458.5
42.5°	1012.7	998.9	929.2	767.3	621.7	575.1	541.4	504.7	478.5	466.8
45°	1177.9	1160.6	1069.5	887.2	718.3	646.0	584.8	527.1	495.0	481.4
47.5°	1352.1	1329.7	1209.4	1003.6	822.3	744.0	664.3	567.3	519.3	503.2
50°	1506.6	1484.4	1353.8	1125.3	919.6	837.4	755.0	622.9	555.8	534.1
52.5°	1617.7	1600.8	1485.2	1251.0	1020.7	924.9	837.2	687.6	601.9	573.7
55°	1692.0	1676.6	1578.3	1370.1	1138.3	1021.3	918.1	757.8	657.5	621.1
57.5°	1737.1	1728.3	1645.7	1476.4	1254.9	1126.8	1010.8	835.1	723.0	676.9
60°	1753.2	1746.0	1687.5	1577.7	1395.8	1253.5	1119.8	922.2	802.5	740.3
62.5°	1710.4	1711.8	1717.6	1697.8	1544.3	1401.8	1250.4	1026.9	890.7	812.2
65°	1508.7	1520.6	1630.2	1830.9	1741.1	1587.6	1416.6	1154.6	991.7	894.0
67.5°	1249.1	1266.4	1402.8	1908.7	1950.8	1828.8	1648.2	1317.3	1112.0	977.2
70°	956.2	974.8	1140.0	1892.5	2147.1	2092.5	1934.5	1524.4	1236.6	1034.9
72.5°	682.5	691.9	822.1	1747.6	2227.6	2272.1	2145.4	1720.5	1300.2	1003.0
75°	479.6	477.9	564.2	1407.3	2102.2	2250.3	2071.5	1614.4	1176.6	796.8
77.5°	208.9	209.3	281.8	854.7	1677.8	1921.9	1721.9	1011.2	820.3	422.3
80°	54.2	55.8	103.4	340.3	1010.2	1268.5	1050.2	444.5	379.0	103.0
82.5°	19.2	20.4	47.6	106.9	372.6	581.7	467.6	142.1	98.9	29.5
85°	5.6	6.6	25.5	32.8	77.0	164.4	113.5	27.6	24.3	15.2
87.5°	0.0	0.8	5.1	4.5	4.5	3.1	5.8	3.1	3.9	1.9
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°
362.1	0°	362.1	362.1	362.1	362.1	362.1	362.1	362.1	362.1	362.1	362.1
365.2	2.5°	364.0	362.5	359.5	356.2	353.1	350.2	349.4	346.3	344.8	345.0
368.1	5°	365.8	363.2	357.2	350.0	342.6	334.1	327.1	317.2	308.8	307.8
373.7	7.5°	370.8	366.5	356.8	342.8	324.2	301.0	279.3	257.9	245.7	239.2
381.9	10°	378.4	372.6	357.8	331.0	291.7	250.1	217.3	190.3	176.5	170.2
392.0	12.5°	387.5	381.1	359.5	311.0	249.7	195.1	159.6	143.2	140.3	139.9
404.4	15°	400.2	393.2	361.3	284.1	204.1	148.5	132.2	132.5	134.7	136.0
417.8	17.5°	414.5	407.5	358.6	251.1	159.2	126.9	126.5	128.3	131.6	132.9
430.1	20°	428.9	422.3	349.2	212.4	128.7	120.9	122.6	124.6	127.9	129.6
442.3	22.5°	443.7	437.9	334.1	171.2	116.2	116.6	118.7	120.7	124.4	126.3
454.2	25°	459.6	454.6	314.1	137.2	110.8	112.1	114.7	117.2	121.1	123.4
464.3	27.5°	475.6	471.9	291.5	114.5	105.9	107.3	110.4	113.7	117.6	120.3
473.2	30°	493.1	491.1	273.4	106.1	101.1	102.4	105.9	109.6	113.9	117.2
482.0	32.5°	511.1	510.7	264.5	112.3	96.8	97.6	100.7	104.4	109.8	113.9
489.4	35°	528.8	529.6	259.3	129.8	95.4	93.1	95.2	98.5	104.9	110.0
497.9	37.5°	551.4	553.5	259.1	148.7	98.9	88.6	90.0	92.3	97.8	103.8
511.1	40°	585.2	596.1	272.3	165.0	105.1	84.5	84.9	85.3	88.2	93.1
528.6	42.5°	630.1	662.1	319.9	176.1	107.5	80.7	79.3	77.0	76.6	79.3
552.5	45°	686.0	741.8	403.5	182.3	105.1	76.6	72.7	66.7	64.5	66.3
584.8	47.5°	751.7	829.1	502.6	183.7	100.9	71.5	64.5	56.6	54.8	55.4
628.3	50°	815.7	894.6	589.8	171.8	94.1	64.9	55.4	48.8	47.6	47.8
679.6	52.5°	872.4	917.1	614.5	143.6	85.1	56.9	47.6	43.1	42.2	42.2
736.2	55°	909.9	892.8	547.9	109.8	73.7	48.6	40.8	38.5	38.1	37.9
799.5	57.5°	917.7	813.7	413.8	79.3	57.7	41.0	36.3	35.0	34.2	33.4
864.3	60°	889.7	681.8	263.5	55.4	43.3	35.0	32.1	31.3	29.7	28.0
925.3	62.5°	829.1	515.0	145.8	38.5	34.8	29.9	28.4	27.4	24.3	21.6
973.7	65°	747.8	342.4	64.5	30.1	28.4	25.1	24.3	22.9	19.2	16.1
992.1	67.5°	666.0	197.1	29.0	24.1	22.9	20.6	20.0	19.0	16.3	13.4
945.3	70°	572.7	99.9	20.0	19.2	17.7	15.7	16.3	16.1	13.4	10.9
771.0	72.5°	426.4	49.6	15.0	14.4	12.8	11.1	13.4	13.2	10.5	8.2
475.4	75°	241.4	24.5	10.9	10.1	7.6	8.2	10.7	10.1	7.2	5.4
200.6	77.5°	95.8	12.6	7.2	6.2	4.5	5.6	7.8	6.8	3.7	2.3
38.3	80°	22.0	6.2	3.7	2.7	2.1	3.3	4.1	2.5	1.0	0.2
10.3	82.5°	6.2	2.7	1.2	1.0	1.0	1.2	1.0	0.4	0.0	0.0
2.7	85°	2.1	1.2	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.8	87.5°	0.8	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>
362.1
344.8
307.1
238.7
168.9
139.7
135.7
132.7
129.6
126.3
123.4
120.5
117.6
114.3
110.8
104.9
94.8
80.7
66.3
55.2
47.8
42.0
37.5
33.0
27.4
20.8
15.4
13.0
10.5
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4.9
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