

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: P938821

Luminaire Tested: **GALN-SB1A-850-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938821  
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-SB1A-850-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

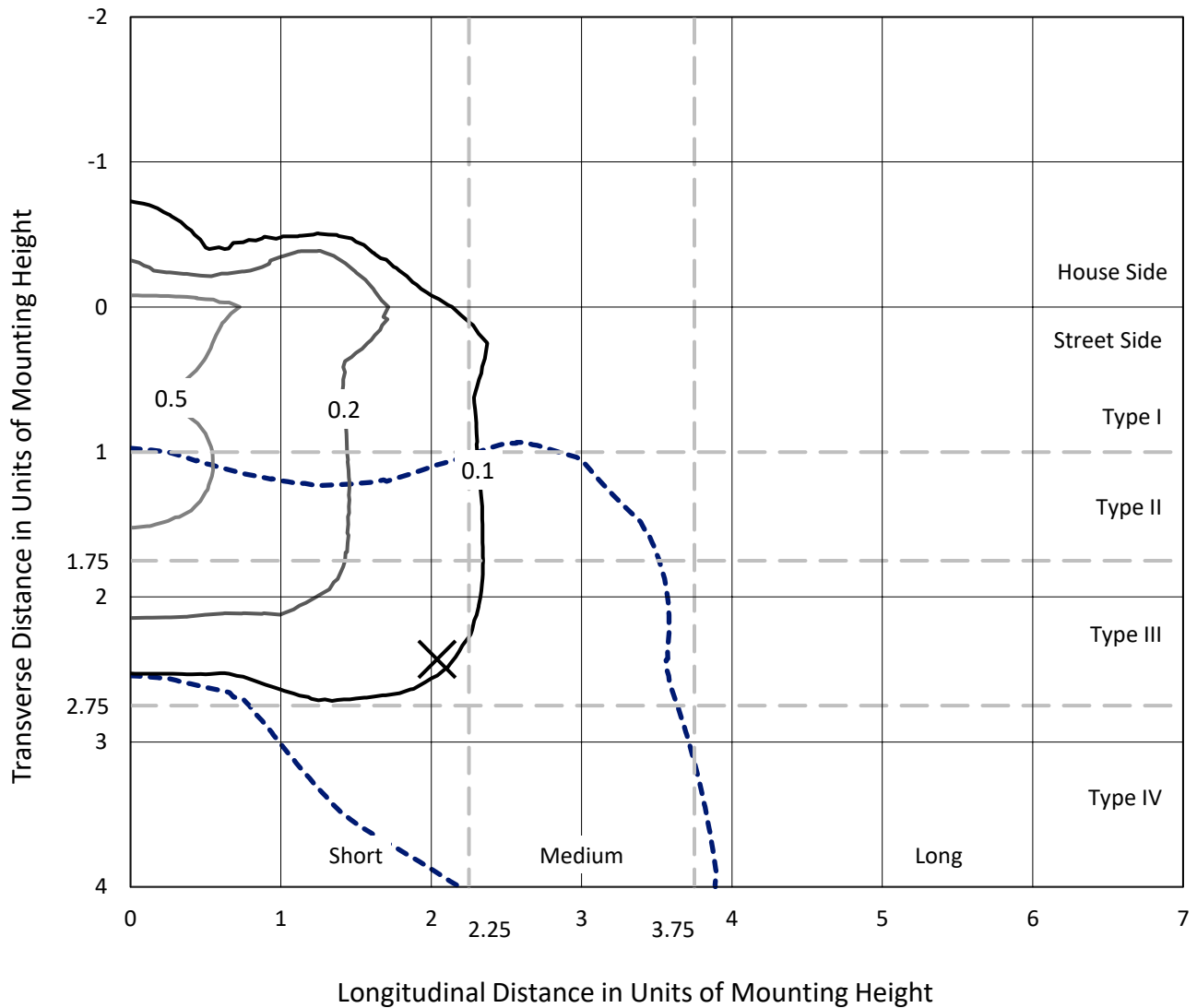
Lumens per Lamp: N/A  
Luminaire Lumens: 2996 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

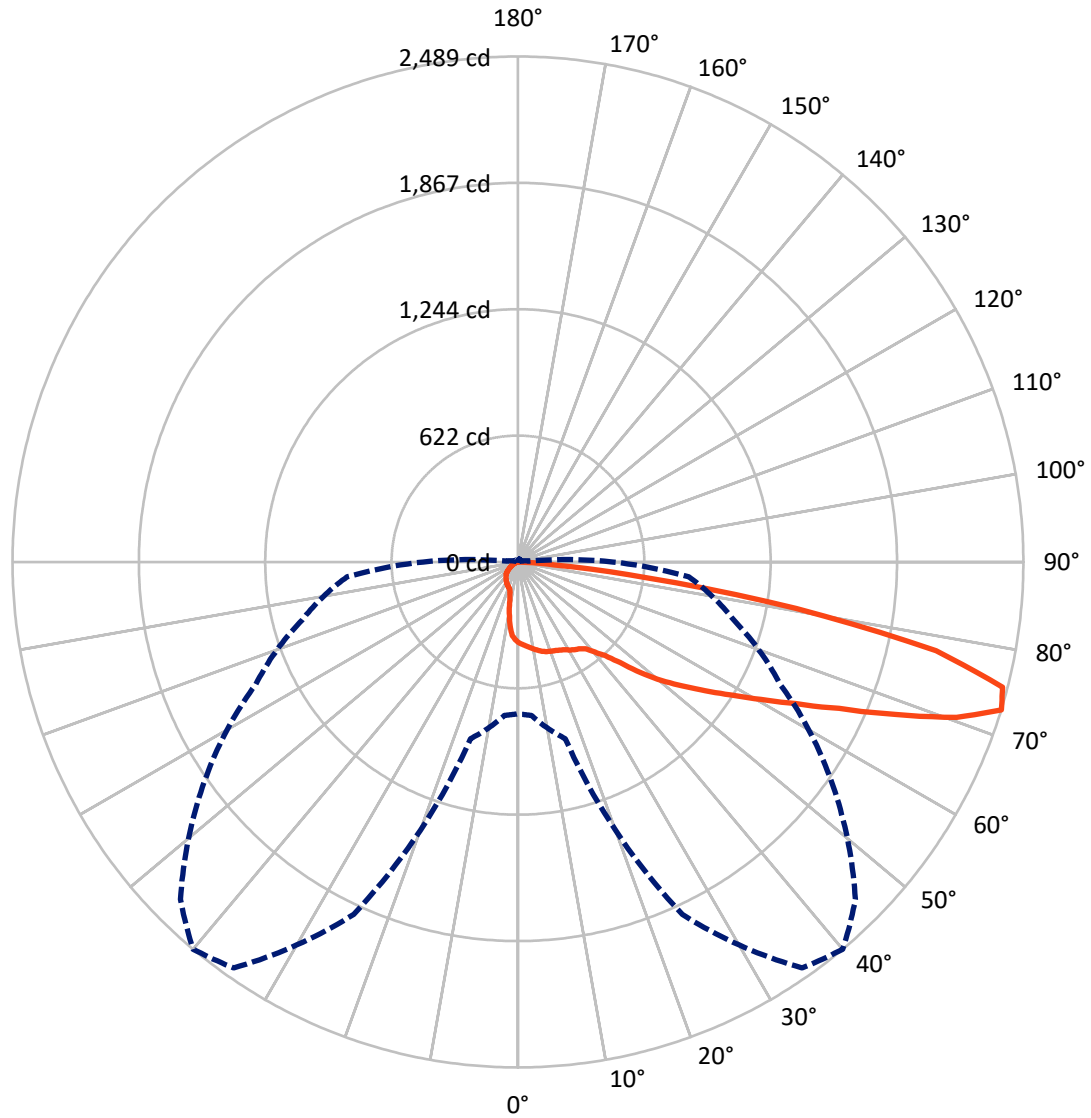
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	386.9	0.0	386.9
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2609.1	0.0	2609.1
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	2996.0	0.0	2996.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.2	1.2
10°-20°	98.4	3.3
20°-30°	159.2	5.3
30°-40°	235.0	7.8
40°-50°	395.6	13.2
50°-60°	614.2	20.5
60°-70°	768.5	25.7
70°-80°	629.2	21.0
80°-90°	59.7	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°	2996.0	100.0
0°-180°	2996.0	100.0

**Coefficient of Utilization**



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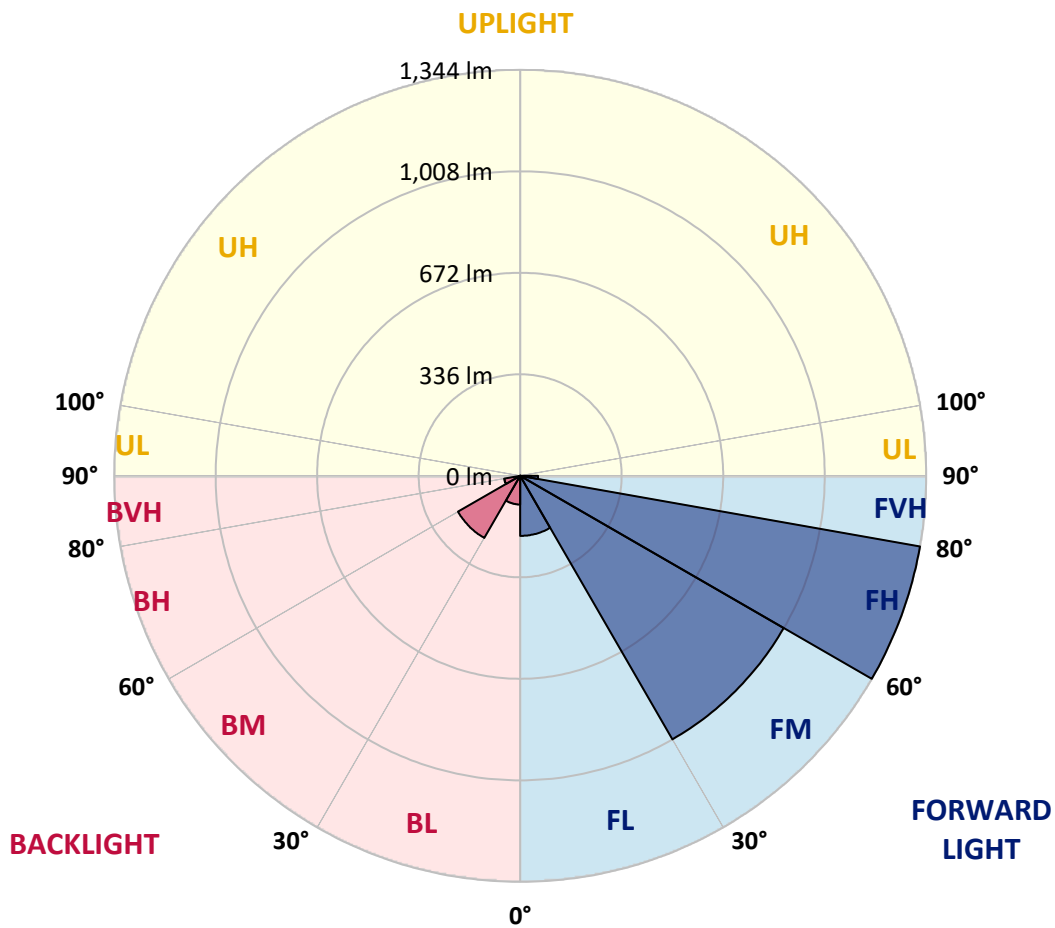
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.8	6.6			
FM (30°-60°)	1007.2	33.6			
FH (60°-80°)	1343.8	44.9			G1/1800
FVH (80°-90°)	59.2	2.0			G1/100
BL (0°-30°)	95.0	3.2	B0/110		
BM (30°-60°)	237.6	7.9	B1/1000		
BH (60°-80°)	53.9	1.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7
2.5°	408.7	410.2	409.3	407.5	407.1	406.2	405.0	404.6	403.0	401.7
5°	420.2	421.7	420.6	418.1	417.0	415.9	414.3	412.9	409.8	406.8
7.5°	432.8	434.2	432.8	429.2	427.4	426.0	423.8	421.7	418.1	413.8
10°	446.8	447.9	445.9	441.1	438.2	436.2	434.2	431.9	428.5	423.8
12.5°	459.9	461.2	458.1	452.4	449.0	447.0	444.8	443.0	439.6	435.1
15°	471.8	473.9	468.5	462.4	458.5	456.9	454.7	453.6	451.3	448.1
17.5°	480.9	482.2	476.6	469.4	465.1	463.9	462.4	463.0	462.6	461.0
20°	488.5	489.4	482.0	473.2	468.5	468.7	468.2	470.5	471.4	471.4
22.5°	498.0	498.2	488.8	477.7	472.1	473.6	474.3	476.8	478.6	480.4
25°	510.4	510.0	498.7	483.6	478.6	480.9	482.4	483.3	485.4	488.3
27.5°	528.9	527.6	513.1	493.0	487.2	489.2	492.1	491.7	490.8	493.0
30°	552.4	550.6	531.4	506.4	500.9	502.8	503.7	499.6	493.0	495.1
32.5°	589.6	586.5	559.8	521.3	512.9	514.9	513.8	505.5	495.8	497.8
35°	654.4	646.7	609.0	552.4	526.4	524.2	521.5	513.4	501.4	499.4
37.5°	792.0	778.5	714.2	613.1	557.1	542.5	534.1	526.0	507.5	499.4
40°	947.3	933.5	859.3	714.6	608.1	583.3	563.5	540.9	513.8	502.3
42.5°	1109.3	1094.2	1017.9	840.6	681.0	630.0	593.0	552.8	524.2	511.3
45°	1290.3	1271.3	1171.6	971.9	786.8	707.6	640.6	577.4	542.2	527.3
47.5°	1481.2	1456.6	1324.8	1099.4	900.8	815.1	727.7	621.4	568.9	551.3
50°	1650.4	1626.0	1483.0	1232.7	1007.3	917.3	827.0	682.4	608.8	585.1
52.5°	1772.0	1753.5	1626.9	1370.4	1118.1	1013.2	917.0	753.2	659.4	628.4
55°	1853.5	1836.6	1728.9	1500.8	1246.9	1118.8	1005.7	830.2	720.3	680.3
57.5°	1902.9	1893.2	1802.7	1617.2	1374.7	1234.3	1107.3	914.8	792.0	741.5
60°	1920.5	1912.6	1848.5	1728.3	1529.0	1373.1	1226.6	1010.2	879.1	811.0
62.5°	1873.6	1875.2	1881.5	1859.8	1691.7	1535.6	1369.7	1124.9	975.7	889.7
65°	1652.7	1665.8	1785.8	2005.6	1907.2	1739.1	1551.8	1264.8	1086.3	979.3
67.5°	1368.3	1387.3	1536.7	2090.9	2136.9	2003.3	1805.4	1443.0	1218.1	1070.5
70°	1047.5	1067.8	1248.8	2073.1	2352.0	2292.2	2119.1	1669.8	1354.6	1133.7
72.5°	747.6	758.0	900.6	1914.4	2440.2	2488.9	2350.2	1884.6	1424.3	1098.7
75°	525.3	523.5	618.1	1541.6	2302.8	2465.0	2269.1	1768.4	1288.9	872.8
77.5°	228.8	229.3	308.7	936.2	1837.9	2105.3	1886.2	1107.7	898.5	462.6
80°	59.3	61.2	113.3	372.8	1106.6	1389.6	1150.4	487.0	415.2	112.8
82.5°	21.0	22.3	52.1	117.1	408.2	637.2	512.2	155.7	108.3	32.3
85°	6.1	7.2	28.0	35.9	84.4	180.1	124.3	30.2	26.6	16.7
87.5°	0.0	0.9	5.6	5.0	5.0	3.4	6.3	3.4	4.3	2.0
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°
396.7	0°	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7	396.7
400.1	2.5°	398.7	397.1	393.8	390.2	386.8	383.6	382.7	379.3	377.7	378.0
403.2	5°	400.8	397.8	391.3	383.4	375.3	366.0	358.3	347.5	338.3	337.1
409.3	7.5°	406.2	401.4	390.8	375.5	355.2	329.7	306.0	282.5	269.2	262.0
418.4	10°	414.5	408.2	392.0	362.6	319.5	273.9	238.1	208.5	193.4	186.4
429.4	12.5°	424.4	417.5	393.8	340.7	273.5	213.7	174.9	156.8	153.7	153.2
443.0	15°	438.4	430.8	395.8	311.2	223.6	162.7	144.9	145.1	147.6	148.9
457.6	17.5°	454.0	446.3	392.9	275.1	174.4	139.0	138.5	140.6	144.2	145.5
471.2	20°	469.8	462.6	382.5	232.6	141.0	132.5	134.3	136.5	140.1	141.9
484.5	22.5°	486.1	479.7	366.0	187.5	127.3	127.7	130.0	132.2	136.3	138.3
497.6	25°	503.4	498.0	344.1	150.3	121.4	122.8	125.7	128.4	132.7	135.2
508.6	27.5°	521.0	517.0	319.3	125.5	116.0	117.6	120.9	124.6	128.8	131.8
518.3	30°	540.2	538.0	299.4	116.2	110.8	112.1	116.0	120.0	124.8	128.4
528.0	32.5°	559.8	559.4	289.7	123.0	106.1	107.0	110.3	114.4	120.3	124.8
536.1	35°	579.2	580.1	284.1	142.2	104.5	102.0	104.3	107.9	114.9	120.5
545.4	37.5°	604.1	606.3	283.9	162.9	108.3	97.0	98.6	101.1	107.2	113.7
559.8	40°	641.1	653.0	298.3	180.7	115.1	92.5	93.0	93.4	96.6	102.0
579.0	42.5°	690.3	725.2	350.4	192.9	117.8	88.5	86.9	84.4	83.9	86.9
605.2	45°	751.4	812.6	442.1	199.7	115.1	83.9	79.7	73.1	70.6	72.7
640.6	47.5°	823.4	908.2	550.6	201.3	110.6	78.3	70.6	62.1	60.0	60.7
688.2	50°	893.6	980.0	646.0	188.2	103.1	71.1	60.7	53.5	52.1	52.4
744.4	52.5°	955.6	1004.6	673.1	157.3	93.2	62.3	52.1	47.2	46.3	46.3
806.5	55°	996.7	978.0	600.2	120.3	80.8	53.3	44.7	42.2	41.7	41.5
875.8	57.5°	1005.3	891.3	453.3	86.9	63.2	44.9	39.7	38.4	37.5	36.6
946.8	60°	974.6	746.9	288.6	60.7	47.4	38.4	35.2	34.3	32.5	30.7
1013.6	62.5°	908.2	564.1	159.8	42.2	38.1	32.7	31.1	30.0	26.6	23.7
1066.7	65°	819.1	375.0	70.6	32.9	31.1	27.5	26.6	25.0	21.0	17.6
1086.7	67.5°	729.5	215.9	31.8	26.4	25.0	22.6	21.9	20.8	17.8	14.7
1035.5	70°	627.3	109.4	21.9	21.0	19.4	17.1	17.8	17.6	14.7	12.0
844.6	72.5°	467.1	54.4	16.5	15.8	14.0	12.2	14.7	14.4	11.5	9.0
520.8	75°	264.5	26.9	12.0	11.1	8.3	9.0	11.7	11.1	7.9	5.9
219.8	77.5°	104.9	13.8	7.9	6.8	5.0	6.1	8.6	7.4	4.1	2.5
42.0	80°	24.1	6.8	4.1	2.9	2.3	3.6	4.5	2.7	1.1	0.2
11.3	82.5°	6.8	2.9	1.4	1.1	1.1	1.4	1.1	0.5	0.0	0.0
2.9	85°	2.3	1.4	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.9	87.5°	0.9	0.5	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>
396.7
377.7
336.4
261.5
185.0
153.0
148.7
145.3
141.9
138.3
135.2
132.0
128.8
125.2
121.4
114.9
103.8
88.5
72.7
60.5
52.4
46.0
41.1
36.1
30.0
22.8
16.9
14.2
11.5
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