

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: P938741

Luminaire Tested: **GALN-SB1A-735-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938741  
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-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

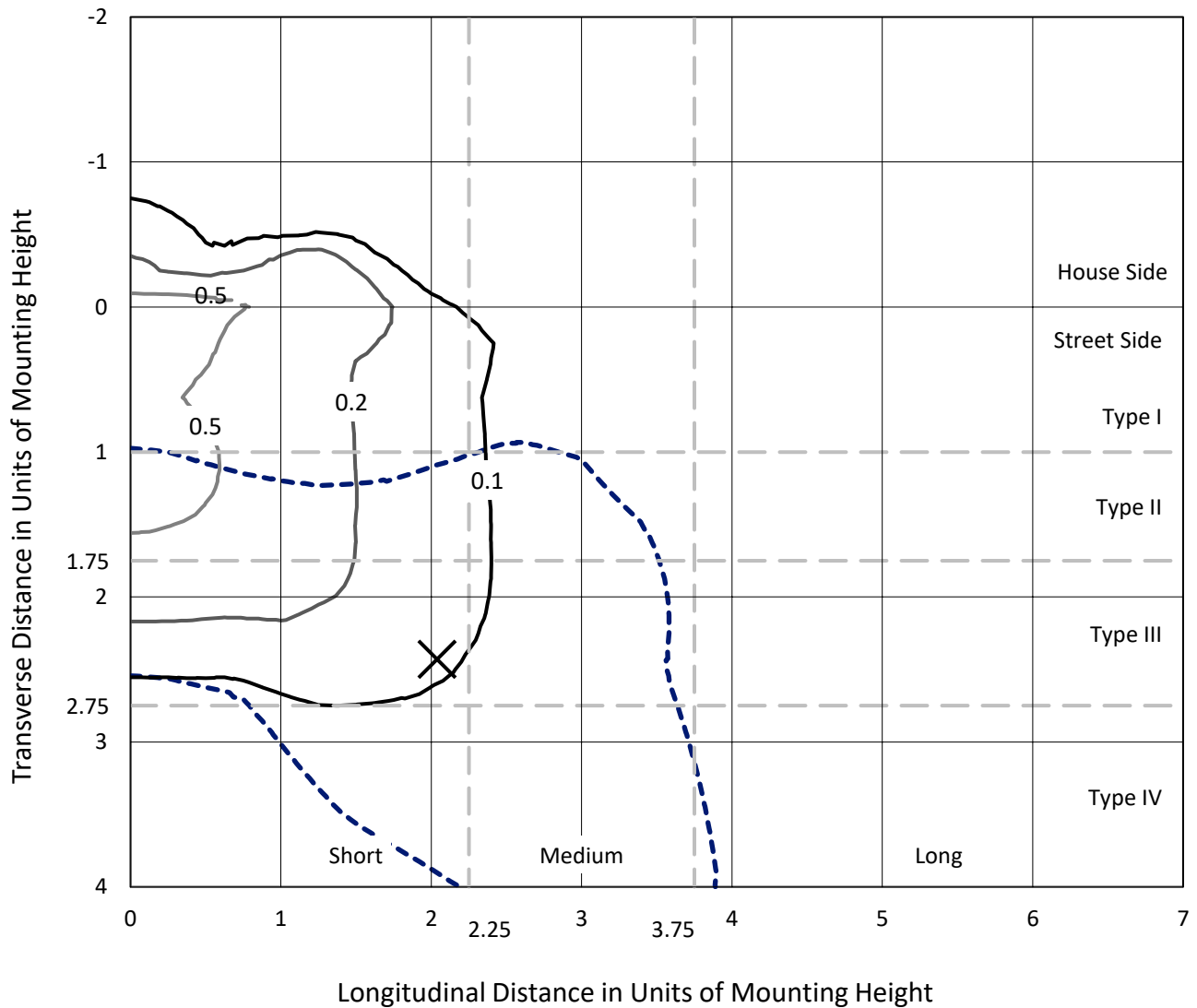
Lumens per Lamp: N/A  
Luminaire Lumens: 3132 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

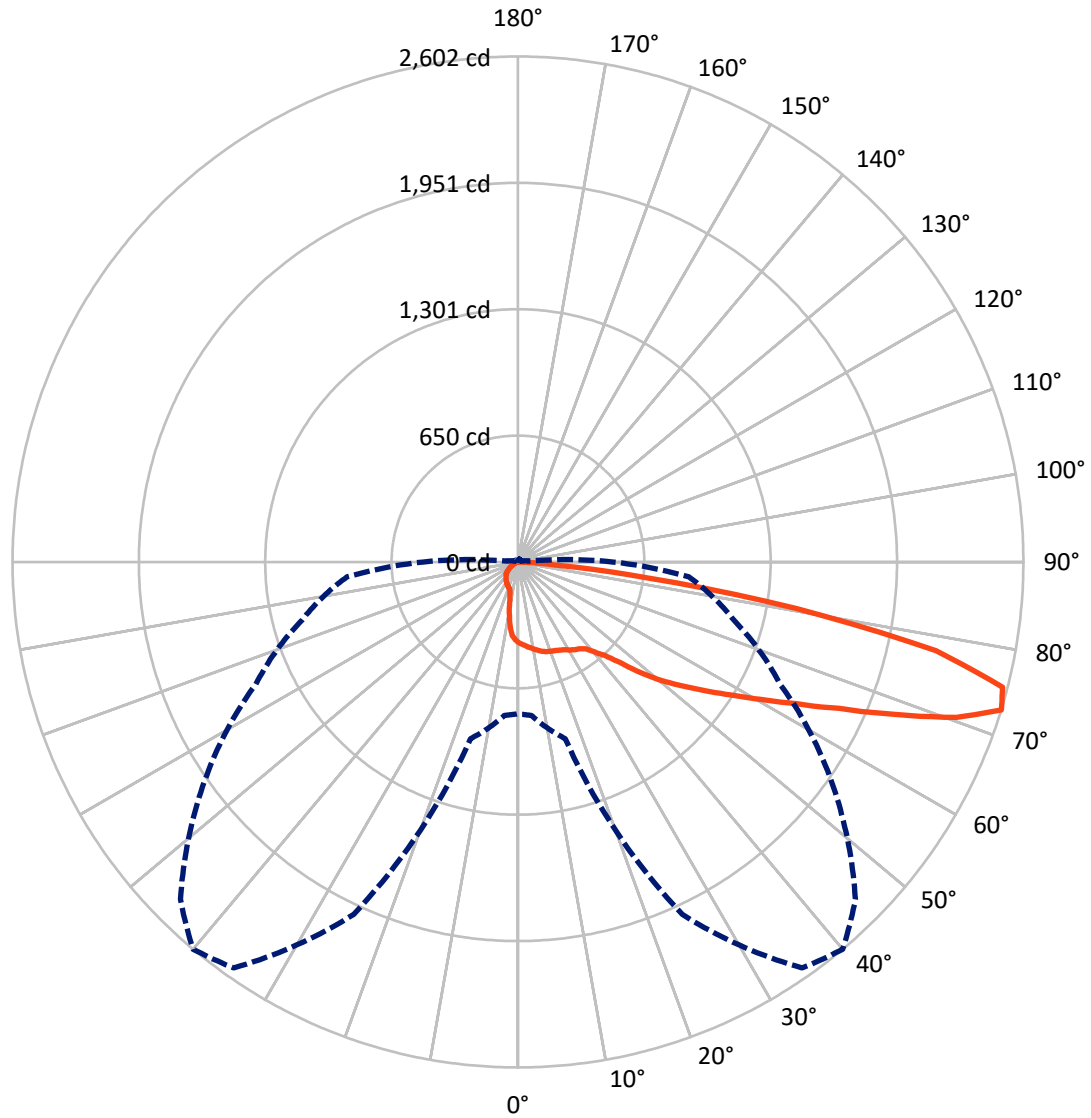
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	404.5	0.0	404.5
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2727.5	0.0	2727.5
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	3132.0	0.0	3132.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.9	1.2
10°-20°	102.9	3.3
20°-30°	166.4	5.3
30°-40°	245.7	7.8
40°-50°	413.5	13.2
50°-60°	642.1	20.5
60°-70°	803.4	25.7
70°-80°	657.8	21.0
80°-90°	62.4	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°	3132.0	100.0
0°-180°	3132.0	100.0

**Coefficient of Utilization**



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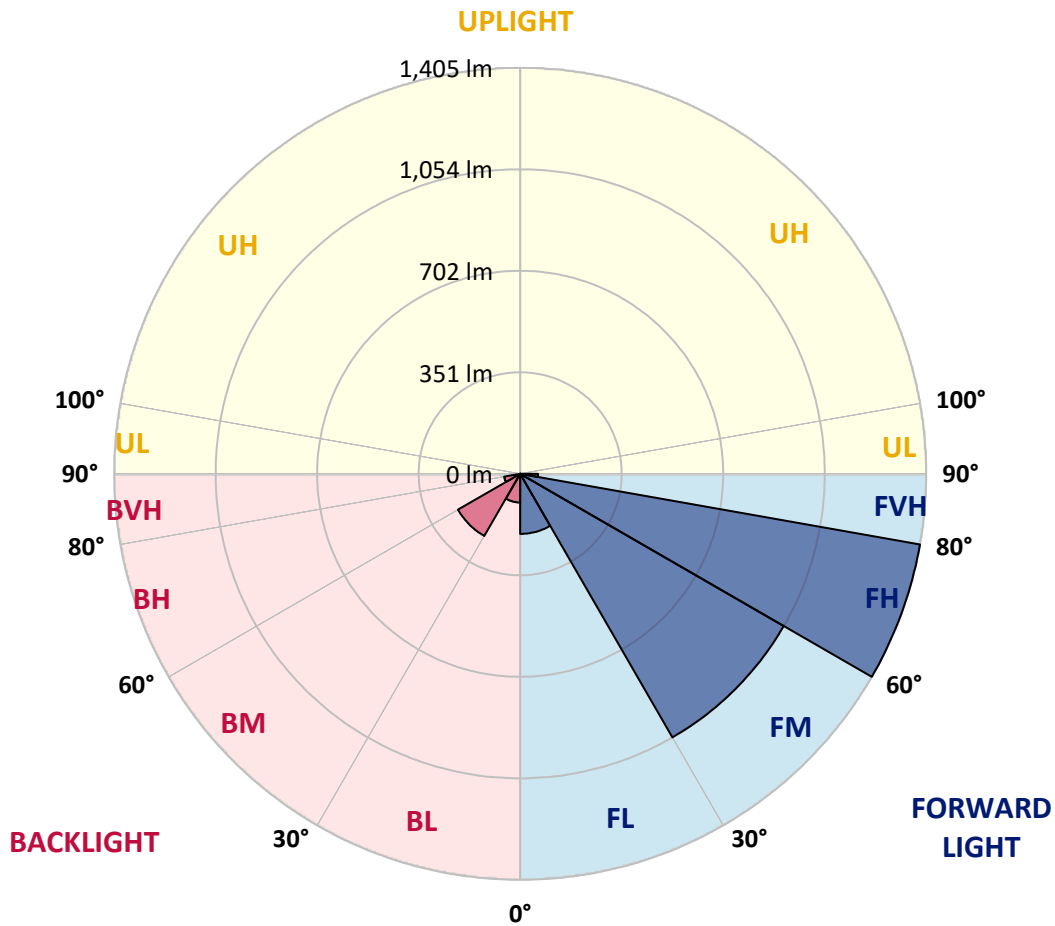
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.9	6.6			
FM (30°-60°)	1052.9	33.6			
FH (60°-80°)	1404.8	44.9			G1/1800
FVH (80°-90°)	61.9	2.0			G1/100
BL (0°-30°)	99.3	3.2	B0/110		
BM (30°-60°)	248.4	7.9	B1/1000		
BH (60°-80°)	56.3	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°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
2.5°	427.2	428.9	427.9	426.0	425.6	424.6	423.4	423.0	421.3	419.9
5°	439.2	440.9	439.7	437.1	435.9	434.8	433.1	431.7	428.4	425.3
7.5°	452.4	453.9	452.4	448.7	446.8	445.4	443.0	440.9	437.1	432.6
10°	467.1	468.3	466.1	461.2	458.1	456.0	453.9	451.5	448.0	443.0
12.5°	480.8	482.2	478.9	473.0	469.4	467.3	464.9	463.1	459.5	454.8
15°	493.3	495.4	489.7	483.3	479.3	477.7	475.3	474.1	471.8	468.5
17.5°	502.7	504.1	498.2	490.7	486.2	485.0	483.3	484.1	483.6	481.9
20°	510.7	511.7	503.9	494.7	489.7	490.0	489.5	491.8	492.8	492.8
22.5°	520.6	520.9	510.9	499.4	493.5	495.1	495.8	498.4	500.3	502.2
25°	533.6	533.1	521.3	505.5	500.3	502.7	504.3	505.3	507.4	510.5
27.5°	552.9	551.5	536.4	515.4	509.3	511.4	514.5	514.0	513.1	515.4
30°	577.5	575.6	555.5	529.3	523.7	525.6	526.5	522.3	515.4	517.6
32.5°	616.4	613.1	585.3	544.9	536.2	538.3	537.1	528.4	518.3	520.4
35°	684.1	676.1	636.7	577.5	550.3	548.0	545.2	536.7	524.2	522.0
37.5°	828.0	813.8	746.6	640.9	582.4	567.1	558.4	549.9	530.5	522.0
40°	990.3	975.9	898.3	747.1	635.7	609.8	589.0	565.4	537.1	525.1
42.5°	1159.7	1143.9	1064.1	878.7	711.9	658.6	619.9	577.9	548.0	534.5
45°	1348.8	1329.0	1224.8	1016.0	822.6	739.8	669.7	603.7	566.9	551.3
47.5°	1548.4	1522.7	1384.9	1149.3	941.7	852.1	760.8	649.7	594.7	576.3
50°	1725.3	1699.9	1550.3	1288.7	1053.0	958.9	864.6	713.3	636.4	611.7
52.5°	1852.5	1833.1	1700.8	1432.6	1168.9	1059.2	958.7	787.4	689.3	657.0
55°	1937.6	1919.9	1807.4	1568.9	1303.6	1169.6	1051.4	867.9	753.0	711.2
57.5°	1989.3	1979.2	1884.6	1690.7	1437.1	1290.3	1157.5	956.3	828.0	775.1
60°	2007.7	1999.4	1932.4	1806.7	1598.4	1435.4	1282.3	1056.1	919.0	847.8
62.5°	1958.6	1960.3	1966.9	1944.2	1768.5	1605.3	1431.9	1175.9	1020.0	930.1
65°	1727.7	1741.4	1866.9	2096.6	1993.8	1818.0	1622.2	1322.2	1135.6	1023.8
67.5°	1430.5	1450.3	1606.4	2185.8	2233.9	2094.3	1887.4	1508.5	1273.4	1119.1
70°	1095.0	1116.3	1305.4	2167.2	2458.7	2396.2	2215.3	1745.6	1416.1	1185.1
72.5°	781.5	792.4	941.5	2001.3	2551.0	2601.9	2456.8	1970.2	1489.0	1148.6
75°	549.2	547.3	646.1	1611.6	2407.3	2576.9	2372.2	1848.7	1347.4	912.4
77.5°	239.2	239.7	322.7	978.7	1921.4	2200.9	1971.8	1158.0	939.3	483.6
80°	62.0	63.9	118.4	389.7	1156.8	1452.6	1202.6	509.1	434.0	117.9
82.5°	21.9	23.4	54.5	122.4	426.7	666.2	535.5	162.8	113.2	33.7
85°	6.4	7.5	29.3	37.5	88.2	188.2	130.0	31.6	27.8	17.5
87.5°	0.0	0.9	5.9	5.2	5.2	3.5	6.6	3.5	4.5	2.1
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°
414.7	0°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
418.2	2.5°	416.8	415.2	411.6	407.9	404.3	401.0	400.1	396.5	394.9	395.1
421.5	5°	418.9	415.9	409.0	400.8	392.3	382.6	374.6	363.3	353.6	352.4
427.9	7.5°	424.6	419.7	408.6	392.5	371.3	344.6	319.9	295.3	281.4	273.9
437.3	10°	433.3	426.7	409.7	379.1	334.0	286.4	248.9	218.0	202.2	194.8
448.9	12.5°	443.7	436.4	411.6	356.2	285.9	223.4	182.8	163.9	160.6	160.2
463.1	15°	458.3	450.3	413.8	325.3	233.8	170.1	151.4	151.7	154.3	155.7
478.4	17.5°	474.6	466.6	410.7	287.6	182.3	145.3	144.8	147.0	150.7	152.2
492.5	20°	491.1	483.6	399.8	243.2	147.4	138.5	140.4	142.7	146.5	148.4
506.5	22.5°	508.1	501.5	382.6	196.0	133.0	133.5	135.9	138.2	142.5	144.6
520.1	25°	526.3	520.6	359.7	157.1	126.9	128.3	131.4	134.2	138.7	141.3
531.7	27.5°	544.7	540.4	333.8	131.2	121.2	122.9	126.4	130.2	134.7	137.8
541.8	30°	564.7	562.4	313.0	121.5	115.8	117.2	121.2	125.5	130.4	134.2
552.0	32.5°	585.3	584.8	302.9	128.6	110.9	111.8	115.4	119.6	125.7	130.4
560.5	35°	605.5	606.5	297.0	148.6	109.2	106.6	109.0	112.8	120.1	126.0
570.2	37.5°	631.5	633.8	296.8	170.3	113.2	101.4	103.1	105.7	112.0	118.9
585.3	40°	670.2	682.7	311.9	189.0	120.3	96.7	97.2	97.7	101.0	106.6
605.3	42.5°	721.6	758.2	366.3	201.7	123.1	92.5	90.8	88.2	87.8	90.8
632.7	45°	785.5	849.5	462.1	208.8	120.3	87.8	83.3	76.4	73.8	76.0
669.7	47.5°	860.8	949.5	575.6	210.4	115.6	81.9	73.8	64.9	62.7	63.5
719.5	50°	934.1	1024.5	675.4	196.7	107.8	74.3	63.5	55.9	54.5	54.7
778.2	52.5°	999.0	1050.2	703.7	164.4	97.4	65.1	54.5	49.3	48.4	48.4
843.1	55°	1041.9	1022.4	627.5	125.7	84.5	55.7	46.7	44.1	43.6	43.4
915.5	57.5°	1050.9	931.8	473.9	90.8	66.1	46.9	41.5	40.1	39.2	38.2
989.8	60°	1018.8	780.8	301.7	63.5	49.5	40.1	36.8	35.9	34.0	32.1
1059.6	62.5°	949.5	589.7	167.0	44.1	39.9	34.2	32.6	31.4	27.8	24.8
1115.1	65°	856.3	392.1	73.8	34.4	32.6	28.8	27.8	26.2	21.9	18.4
1136.1	67.5°	762.6	225.8	33.3	27.6	26.2	23.6	22.9	21.7	18.6	15.3
1082.5	70°	655.8	114.4	22.9	21.9	20.3	17.9	18.6	18.4	15.3	12.5
883.0	72.5°	488.3	56.9	17.2	16.5	14.6	12.7	15.3	15.1	12.0	9.4
544.4	75°	276.5	28.1	12.5	11.6	8.7	9.4	12.3	11.6	8.3	6.1
229.8	77.5°	109.7	14.4	8.3	7.1	5.2	6.4	9.0	7.8	4.2	2.6
43.9	80°	25.2	7.1	4.2	3.1	2.4	3.8	4.7	2.8	1.2	0.2
11.8	82.5°	7.1	3.1	1.4	1.2	1.2	1.4	1.2	0.5	0.0	0.0
3.1	85°	2.4	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>
414.7
394.9
351.7
273.4
193.4
159.9
155.5
151.9
148.4
144.6
141.3
138.0
134.7
130.9
126.9
120.1
108.5
92.5
76.0
63.2
54.7
48.1
42.9
37.7
31.4
23.8
17.7
14.9
12.0
9.0
5.7
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