

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: P944933

Luminaire Tested: **GALN-SB1A-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

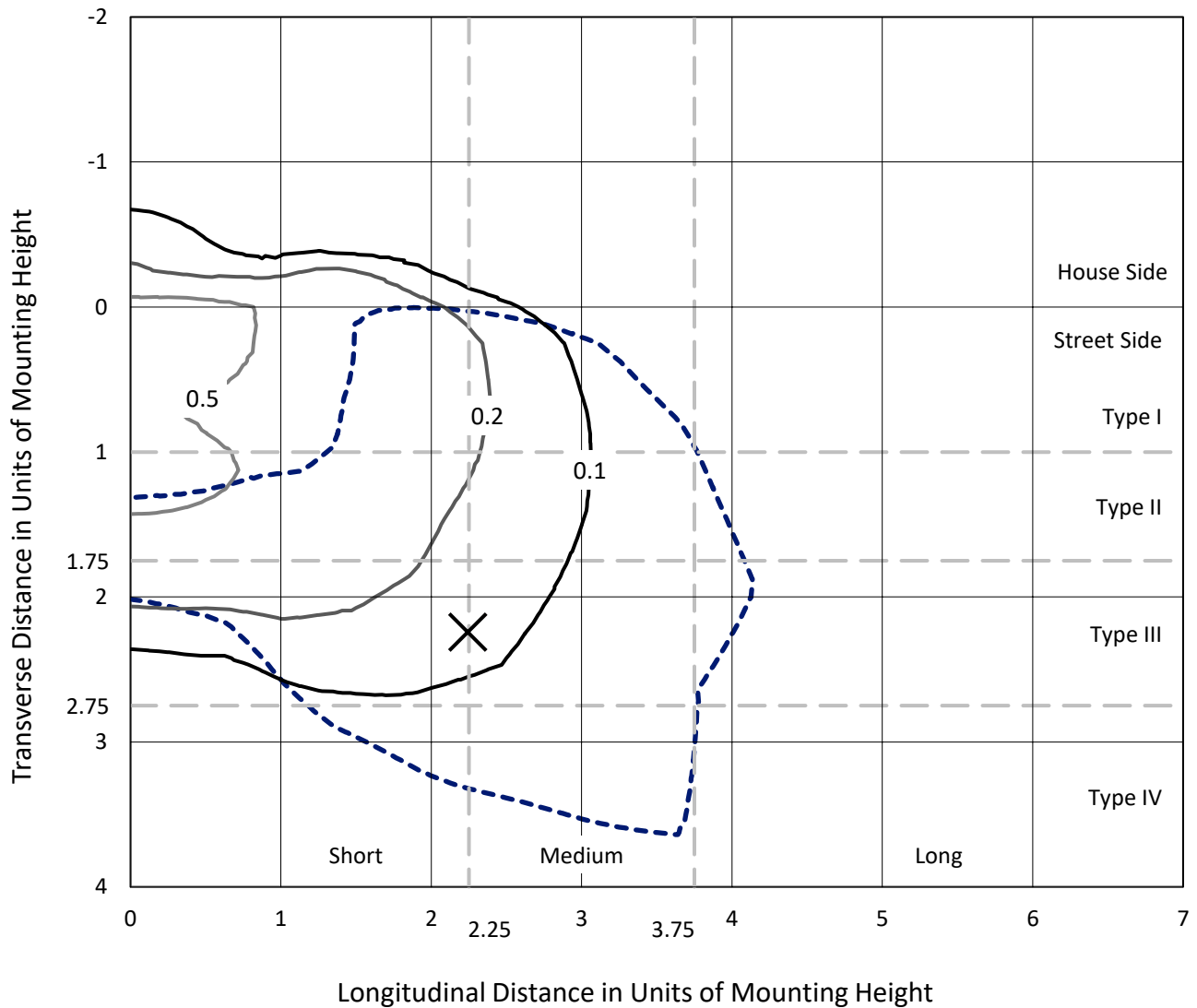
Lumens per Lamp: N/A  
Luminaire Lumens: 3657 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

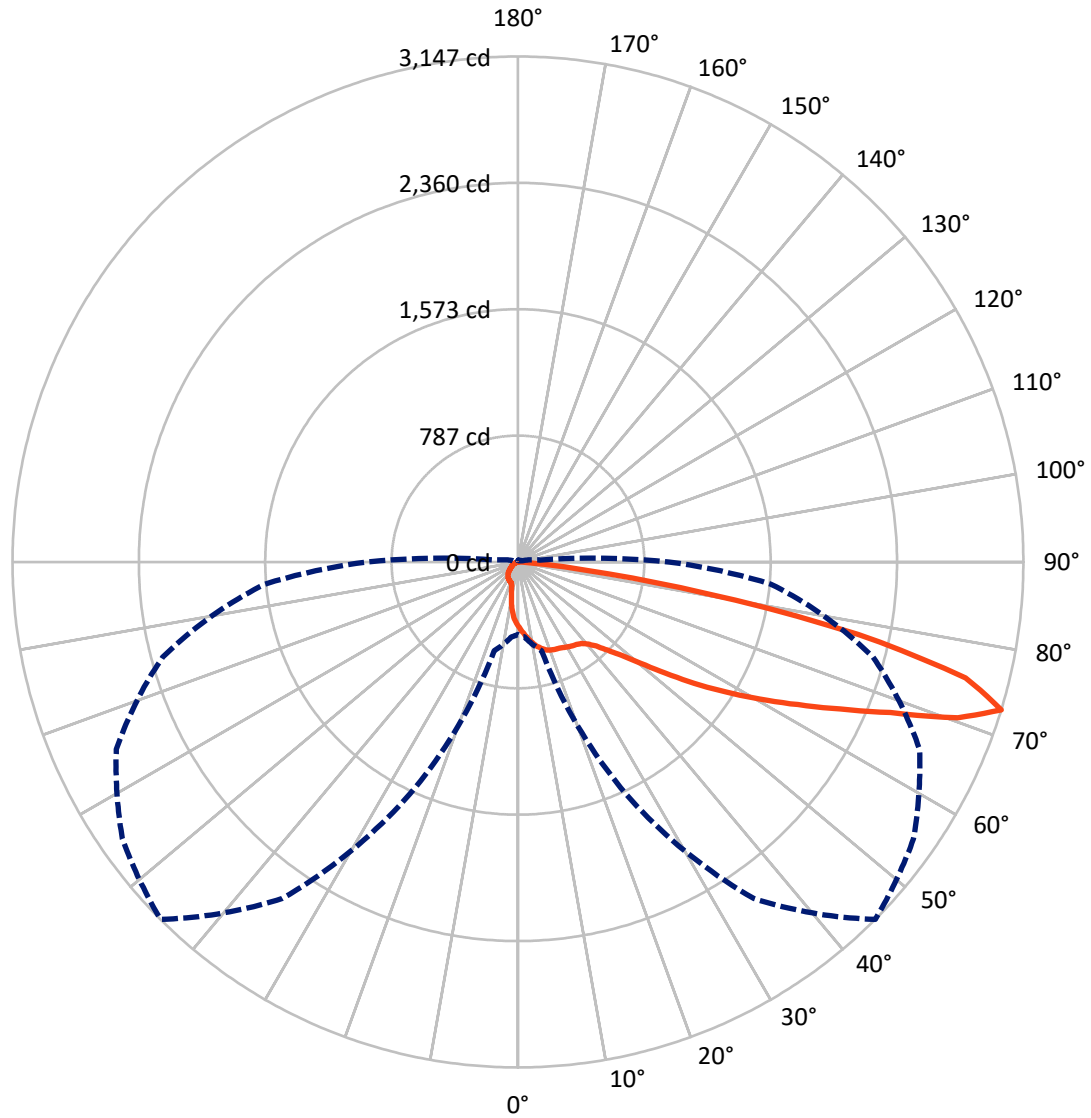
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	384.2	0.0	384.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3272.7	0.0	3272.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3657.0	0.0	3657.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.7	1.0
10°-20°	110.3	3.0
20°-30°	181.2	5.0
30°-40°	256.9	7.0
40°-50°	424.7	11.6
50°-60°	762.9	20.9
60°-70°	1059.3	29.0
70°-80°	768.4	21.0
80°-90°	55.5	1.5
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°	3657.0	100.0
0°-180°	3657.0	100.0

**Coefficient of Utilization**



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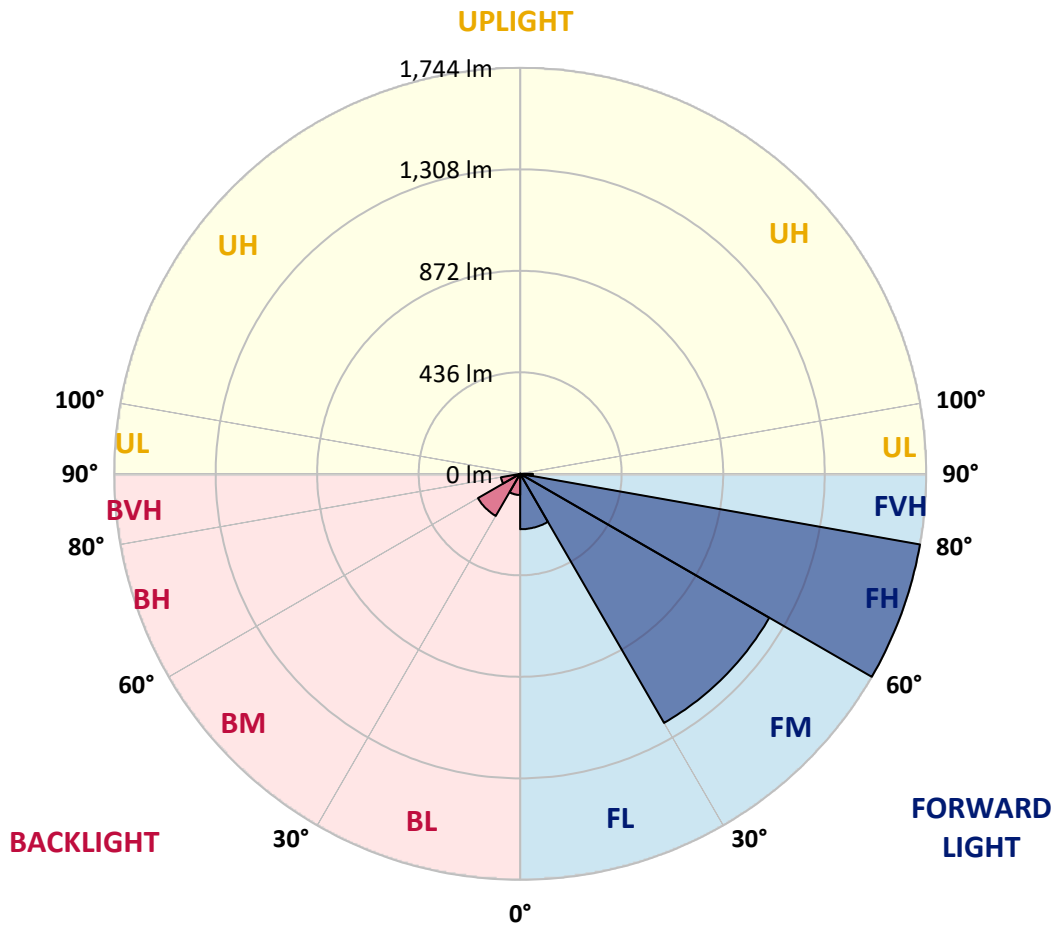
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.2	6.5			
FM (30°-60°)	1235.5	33.8			
FH (60°-80°)	1743.9	47.7			G1/1800
FVH (80°-90°)	55.1	1.5			G1/100
BL (0°-30°)	91.0	2.5	B0/110		
BM (30°-60°)	209.0	5.7	B0/220		
BH (60°-80°)	83.8	2.3	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: B0-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6
2.5°	437.6	438.3	437.8	434.8	429.8	427.1	425.6	420.6	417.4	411.6
5°	477.8	480.8	479.0	473.0	463.5	456.8	454.8	444.6	435.3	424.6
7.5°	520.4	521.9	518.7	511.0	498.2	486.7	485.0	470.8	456.0	439.6
10°	557.4	559.1	554.1	542.9	528.4	514.2	511.7	496.0	478.5	458.3
12.5°	588.3	590.1	583.6	570.1	554.1	539.4	536.9	520.4	501.2	478.8
15°	611.8	615.1	606.3	591.8	574.6	559.9	558.6	542.4	523.7	498.7
17.5°	625.5	628.8	620.5	603.1	588.3	575.9	574.4	560.9	543.4	519.4
20°	627.8	630.8	622.0	606.8	594.6	584.6	583.8	574.1	561.4	538.4
22.5°	621.0	624.8	616.8	604.6	596.1	590.8	589.8	584.3	577.1	557.6
25°	614.1	617.0	611.1	600.3	595.8	595.3	596.1	595.1	593.6	577.1
27.5°	613.6	616.8	610.1	599.8	597.3	602.6	603.3	608.1	609.3	594.8
30°	617.8	620.0	613.6	602.8	601.6	613.6	613.8	622.3	624.3	609.8
32.5°	627.0	629.5	623.0	607.3	605.6	622.3	623.0	634.3	637.5	625.8
35°	648.7	651.7	644.3	619.8	613.6	630.5	632.8	646.0	652.5	642.8
37.5°	702.9	694.2	683.9	645.0	631.8	643.5	647.3	662.7	674.2	663.0
40°	837.5	810.0	778.1	687.9	663.7	671.2	674.2	689.7	705.4	694.4
42.5°	1039.4	1006.9	955.5	786.8	711.9	715.6	717.9	731.4	753.6	744.9
45°	1219.4	1207.6	1155.2	955.5	802.0	783.5	786.3	793.3	826.0	822.7
47.5°	1357.7	1350.9	1310.5	1149.2	954.3	866.7	874.4	877.6	924.8	936.3
50°	1464.0	1461.5	1425.3	1321.5	1153.2	989.2	992.0	985.0	1055.6	1084.1
52.5°	1564.3	1572.8	1546.1	1481.5	1365.6	1149.7	1149.2	1116.3	1211.6	1254.6
55°	1654.9	1657.9	1660.7	1644.7	1579.3	1332.4	1327.7	1273.8	1392.6	1437.0
57.5°	1740.1	1741.3	1765.8	1798.5	1801.7	1528.6	1519.9	1455.3	1590.3	1622.0
60°	1797.2	1803.0	1854.6	1945.5	1985.2	1731.1	1726.3	1660.4	1791.5	1806.2
62.5°	1714.9	1749.8	1880.1	2060.3	2158.4	1955.5	1953.2	1891.3	2003.2	1991.2
65°	1388.1	1447.3	1676.4	2138.0	2328.4	2206.1	2209.3	2143.4	2220.6	2181.6
67.5°	971.0	1033.4	1304.5	2144.2	2518.4	2500.4	2519.1	2415.8	2451.5	2364.1
70°	671.5	703.7	880.1	2009.9	2666.4	2905.8	2905.3	2750.3	2681.1	2447.2
72.5°	451.6	468.3	571.6	1594.5	2557.6	3146.6	3132.2	3005.9	2758.5	2288.7
75°	190.5	202.7	264.6	896.1	2023.4	2878.8	2839.6	2656.4	2451.0	1802.2
77.5°	60.4	65.6	104.3	320.8	1114.5	2163.9	2122.5	1658.9	1642.7	904.1
80°	28.7	33.4	58.7	128.8	438.6	1176.9	1171.2	752.6	706.7	244.1
82.5°	12.5	14.7	32.4	68.9	196.2	419.9	428.3	256.1	211.9	92.6
85°	4.0	5.2	15.0	31.7	82.9	104.3	103.1	60.9	85.4	50.4
87.5°	0.0	0.0	5.0	7.2	8.5	6.0	6.7	5.2	23.7	14.0
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°
400.6	0°	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6	400.6
405.6	2.5°	402.6	398.6	391.6	385.2	379.4	373.7	370.2	365.2	364.7	364.7
412.1	5°	405.4	398.9	386.4	373.2	357.9	343.5	329.0	315.0	310.5	307.3
422.6	7.5°	413.4	403.1	383.4	358.2	329.2	297.5	275.3	251.4	242.1	237.1
436.6	10°	424.8	410.9	380.9	336.7	289.8	246.6	214.9	189.0	179.0	174.7
451.8	12.5°	437.6	420.4	376.4	310.0	246.6	194.9	164.0	152.0	150.5	150.5
470.0	15°	452.8	431.8	368.7	278.6	201.4	154.3	143.3	143.8	145.3	146.3
487.7	17.5°	468.5	444.1	356.5	243.4	161.5	138.8	139.0	139.8	141.0	142.0
507.0	20°	485.5	456.3	340.2	205.9	138.5	134.3	135.0	135.8	136.8	137.3
524.9	22.5°	503.7	467.8	321.0	169.2	130.8	130.5	130.8	131.5	132.8	132.8
545.9	25°	523.2	480.5	299.0	142.5	126.8	126.8	127.3	127.8	128.8	128.8
566.1	27.5°	543.2	492.2	275.8	128.6	123.3	123.1	123.1	123.8	124.3	124.6
586.1	30°	565.1	506.0	252.6	125.6	120.6	119.3	118.6	119.1	119.6	119.8
607.1	32.5°	587.6	519.2	231.9	126.8	117.8	115.6	113.1	112.6	112.6	113.6
628.8	35°	612.6	533.7	215.9	131.0	116.3	110.1	106.1	103.8	104.1	105.6
654.7	37.5°	642.5	551.1	204.2	134.8	115.3	103.8	97.3	94.6	92.9	94.6
690.4	40°	681.7	576.9	195.7	137.8	114.1	96.6	87.9	83.4	80.1	81.1
745.8	42.5°	739.4	617.3	192.5	138.0	111.3	88.1	78.1	72.1	67.4	67.6
829.2	45°	820.2	681.2	209.2	134.8	105.3	78.9	67.9	59.9	56.9	56.2
953.8	47.5°	931.1	774.3	247.9	128.1	96.6	69.9	57.9	51.2	48.9	47.7
1117.3	50°	1079.6	893.9	290.8	120.6	87.9	61.4	49.7	45.4	43.9	42.7
1311.2	52.5°	1251.8	1015.2	326.0	113.1	79.1	53.9	44.4	41.9	40.7	39.7
1498.4	55°	1409.8	1098.8	324.0	105.1	70.6	47.9	40.7	39.2	37.7	36.7
1659.7	57.5°	1508.2	1110.5	267.1	96.4	60.9	43.2	37.2	36.2	34.4	33.2
1799.2	60°	1553.4	1043.6	187.2	84.9	51.2	38.7	33.4	32.9	30.7	29.0
1931.3	62.5°	1561.6	919.3	124.8	70.6	42.7	34.4	29.7	29.0	26.0	23.0
2038.6	65°	1528.1	741.6	86.4	55.2	36.4	30.0	25.5	24.0	20.7	17.7
2064.1	67.5°	1422.3	520.7	60.2	39.7	31.0	23.7	20.2	19.7	17.2	14.7
1934.3	70°	1228.4	296.8	40.2	29.7	24.5	16.2	16.0	16.5	14.0	12.0
1580.3	72.5°	941.8	135.8	25.0	21.7	16.7	11.0	12.7	13.0	10.7	9.0
986.0	75°	554.4	58.2	15.7	14.0	8.5	7.2	9.2	9.5	7.2	5.7
360.4	77.5°	188.7	22.0	10.0	8.2	4.2	4.0	6.0	6.0	4.0	2.2
72.4	80°	42.9	8.2	5.0	3.2	2.0	1.7	2.0	1.7	1.0	0.2
22.2	82.5°	12.2	3.2	2.0	1.2	0.7	0.7	0.2	0.0	0.0	0.0
7.7	85°	3.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	1.5	0.2	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>
400.6
365.9
308.8
237.9
174.7
150.5
146.3
142.0
137.5
133.3
129.1
124.8
120.3
114.3
106.3
94.1
80.6
66.6
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