

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: P945353

Luminaire Tested: **GALN-SB1B-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945353  
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-SB1B-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

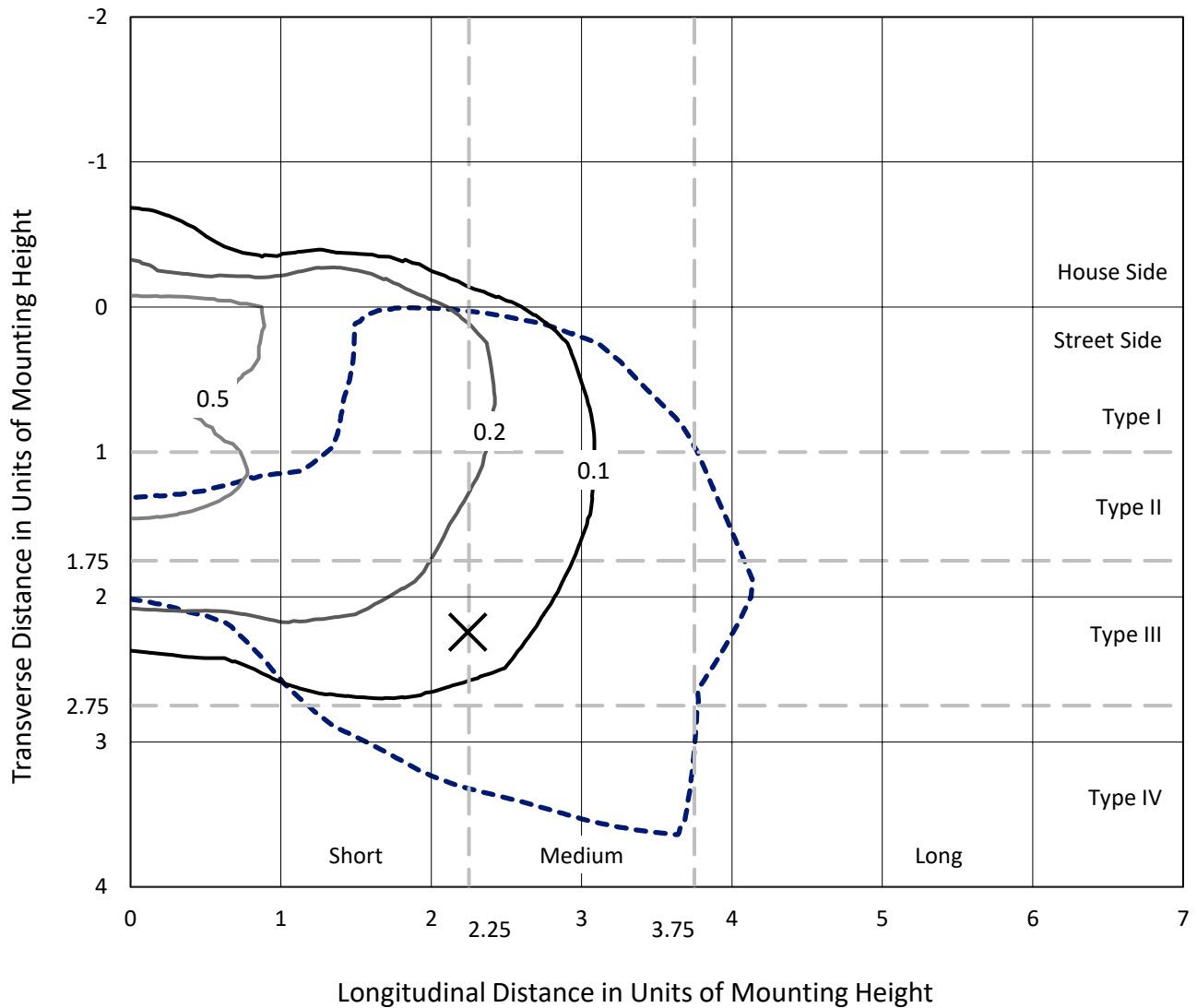
Lumens per Lamp: N/A  
Luminaire Lumens: 3773 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

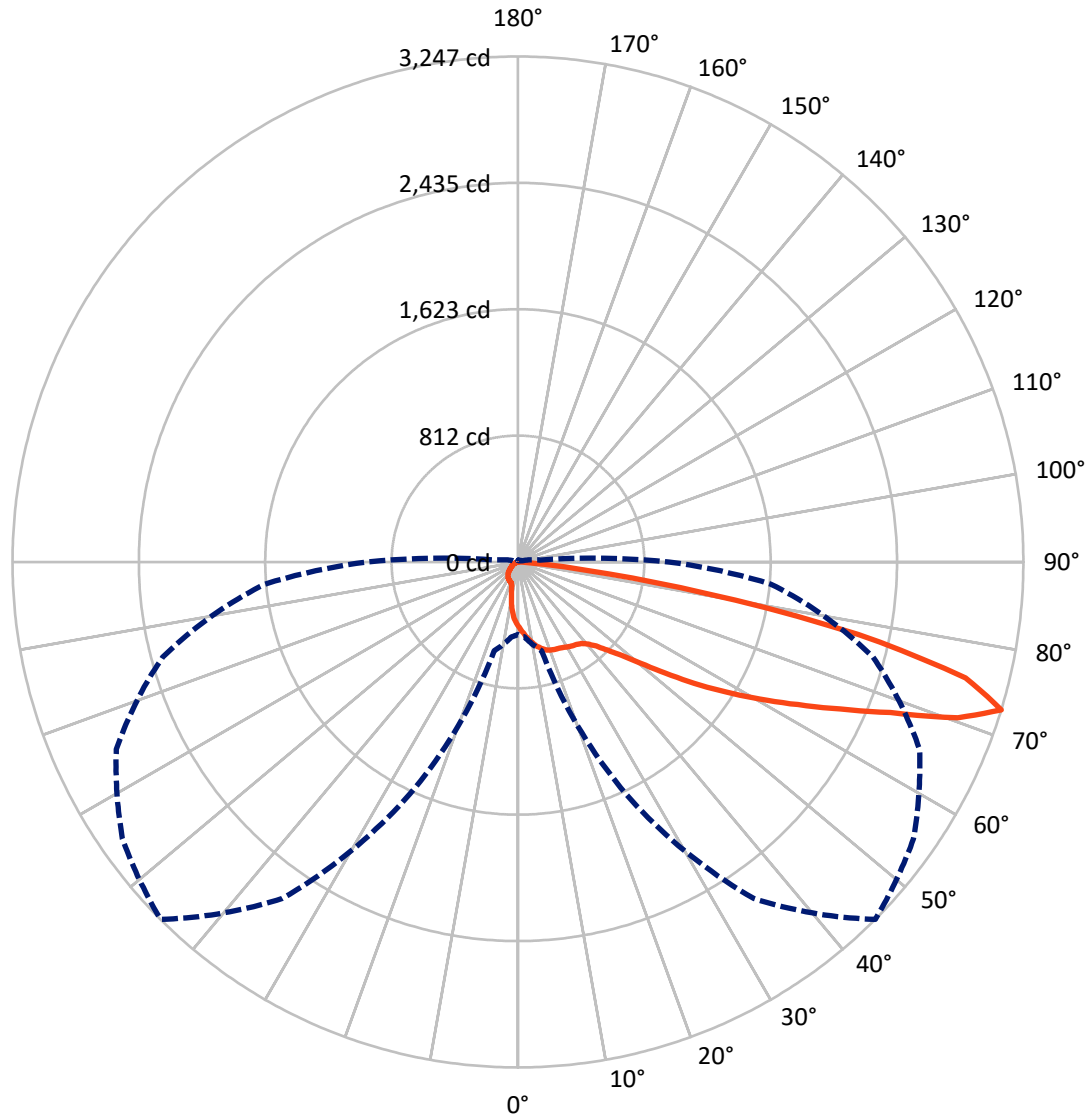
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P945353  
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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	396.4	0.0	396.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3376.6	0.0	3376.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3773.0	0.0	3773.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.9	1.0
10°-20°	113.8	3.0
20°-30°	186.9	5.0
30°-40°	265.1	7.0
40°-50°	438.2	11.6
50°-60°	787.1	20.9
60°-70°	1092.9	29.0
70°-80°	792.8	21.0
80°-90°	57.3	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°	3773.0	100.0
0°-180°	3773.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945353

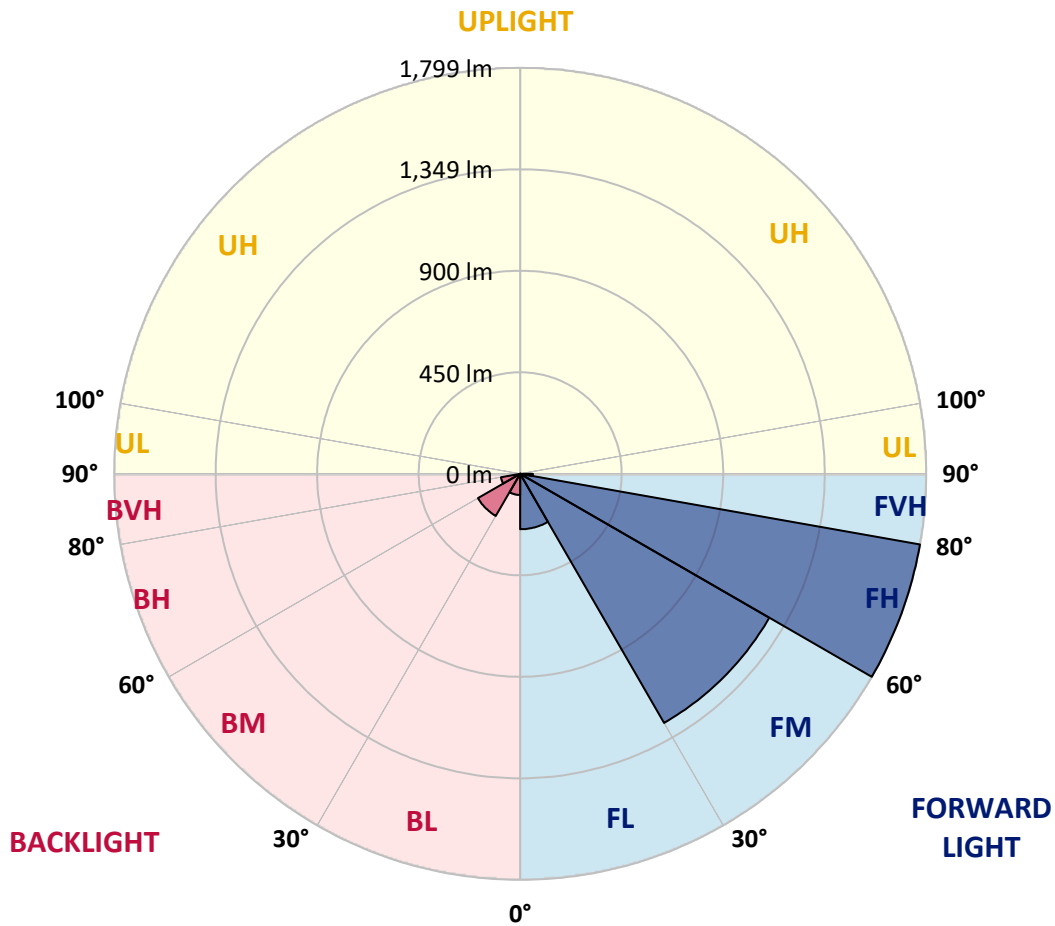
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.8	6.5			
FM (30°-60°)	1274.7	33.8			
FH (60°-80°)	1799.2	47.7			G1/1800
FVH (80°-90°)	56.8	1.5			G1/100
BL (0°-30°)	93.9	2.5	B0/110		
BM (30°-60°)	215.6	5.7	B0/220		
BH (60°-80°)	86.5	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°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3
2.5°	451.5	452.2	451.7	448.6	443.5	440.6	439.1	433.9	430.6	424.7
5°	492.9	496.0	494.2	488.0	478.2	471.3	469.2	458.7	449.1	438.1
7.5°	537.0	538.5	535.2	527.2	514.0	502.2	500.4	485.7	470.5	453.5
10°	575.1	576.9	571.7	560.1	545.2	530.5	527.9	511.7	493.7	472.8
12.5°	607.0	608.8	602.1	588.2	571.7	556.5	554.0	537.0	517.1	493.9
15°	631.2	634.6	625.5	610.6	592.8	577.6	576.4	559.6	540.3	514.6
17.5°	645.4	648.7	640.2	622.2	607.0	594.1	592.6	578.7	560.6	535.9
20°	647.7	650.8	641.8	626.1	613.4	603.1	602.4	592.3	579.2	555.5
22.5°	640.7	644.6	636.4	623.7	615.0	609.6	608.6	602.9	595.4	575.3
25°	633.5	636.6	630.4	619.4	614.7	614.2	615.0	614.0	612.4	595.4
27.5°	633.0	636.4	629.4	618.9	616.3	621.7	622.5	627.3	628.6	613.7
30°	637.4	639.7	633.0	621.9	620.7	633.0	633.3	642.0	644.1	629.2
32.5°	646.9	649.5	642.8	626.6	624.8	642.0	642.8	654.4	657.7	645.6
35°	669.3	672.4	664.7	639.5	633.0	650.5	652.8	666.5	673.2	663.1
37.5°	725.2	716.2	705.6	665.5	651.8	663.9	667.8	683.7	695.6	684.0
40°	864.0	835.7	802.7	709.8	684.8	692.5	695.6	711.6	727.8	716.5
42.5°	1072.4	1038.9	985.8	811.7	734.5	738.3	740.7	754.6	777.5	768.5
45°	1258.0	1245.9	1191.9	985.8	827.5	808.4	811.2	818.4	852.2	848.8
47.5°	1400.7	1393.8	1352.0	1185.7	984.5	894.2	902.1	905.5	954.2	966.0
50°	1510.4	1507.9	1470.5	1363.4	1189.8	1020.6	1023.4	1016.2	1089.1	1118.5
52.5°	1614.0	1622.7	1595.2	1528.5	1409.0	1186.2	1185.7	1151.7	1250.1	1294.4
55°	1707.4	1710.5	1713.4	1696.9	1629.4	1374.7	1369.8	1314.2	1436.8	1482.6
57.5°	1795.3	1796.5	1821.8	1855.5	1858.9	1577.1	1568.1	1501.4	1640.7	1673.4
60°	1854.2	1860.2	1913.5	2007.2	2048.2	1786.0	1781.1	1713.1	1848.3	1863.5
62.5°	1769.3	1805.3	1939.7	2125.7	2226.9	2017.5	2015.2	1951.3	2066.7	2054.3
65°	1432.1	1493.2	1729.6	2205.8	2402.3	2276.1	2279.4	2211.4	2291.0	2250.8
67.5°	1001.8	1066.2	1345.9	2212.2	2598.2	2579.7	2599.0	2492.4	2529.2	2439.1
70°	692.8	726.0	908.1	2073.7	2751.0	2997.9	2997.4	2837.5	2766.2	2524.9
72.5°	465.9	483.1	589.8	1645.1	2638.7	3246.5	3231.5	3101.2	2846.0	2361.3
75°	196.5	209.1	273.0	924.5	2087.6	2970.1	2929.7	2740.7	2528.7	1859.4
77.5°	62.3	67.7	107.6	330.9	1149.9	2232.6	2189.8	1711.6	1694.8	932.8
80°	29.6	34.5	60.5	132.9	452.5	1214.3	1208.3	776.5	729.1	251.9
82.5°	12.9	15.2	33.5	71.1	202.4	433.2	441.9	264.2	218.6	95.5
85°	4.1	5.4	15.5	32.7	85.5	107.6	106.4	62.8	88.1	52.0
87.5°	0.0	0.0	5.2	7.5	8.8	6.2	7.0	5.4	24.5	14.4
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°
413.3	0°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3
418.5	2.5°	415.4	411.3	404.1	397.4	391.4	385.5	381.9	376.8	376.3	376.3
425.2	5°	418.2	411.5	398.7	385.0	369.3	354.4	339.4	325.0	320.4	317.0
436.0	7.5°	426.5	415.9	395.6	369.6	339.7	307.0	284.1	259.3	249.8	244.7
450.4	10°	438.3	423.9	393.0	347.4	299.0	254.4	221.7	195.0	184.7	180.3
466.1	12.5°	451.5	433.7	388.4	319.9	254.4	201.1	169.2	156.8	155.3	155.3
484.9	15°	467.2	445.5	380.4	287.4	207.8	159.2	147.8	148.3	149.9	150.9
503.2	17.5°	483.4	458.2	367.8	251.1	166.6	143.2	143.4	144.2	145.5	146.5
523.0	20°	500.9	470.8	351.0	212.5	142.9	138.6	139.3	140.1	141.1	141.6
541.6	22.5°	519.7	482.6	331.2	174.6	134.9	134.7	134.9	135.7	137.0	137.0
563.2	25°	539.8	495.8	308.5	147.1	130.8	130.8	131.3	131.9	132.9	132.9
584.1	27.5°	560.4	507.9	284.6	132.6	127.2	127.0	127.0	127.7	128.3	128.5
604.7	30°	583.1	522.0	260.6	129.5	124.4	123.1	122.3	122.8	123.4	123.6
626.3	32.5°	606.2	535.7	239.2	130.8	121.6	119.2	116.7	116.1	116.1	117.2
648.7	35°	632.0	550.6	222.8	135.2	120.0	113.6	109.5	107.1	107.4	108.9
675.5	37.5°	662.9	568.6	210.7	139.1	119.0	107.1	100.4	97.6	95.8	97.6
712.3	40°	703.3	595.2	201.9	142.2	117.7	99.7	90.7	86.0	82.7	83.7
769.5	42.5°	762.8	636.9	198.6	142.4	114.9	90.9	80.6	74.4	69.5	69.8
855.5	45°	846.3	702.8	215.8	139.1	108.7	81.4	70.0	61.8	58.7	57.9
984.0	47.5°	960.6	798.9	255.7	132.1	99.7	72.1	59.7	52.8	50.5	49.2
1152.7	50°	1113.8	922.2	300.0	124.4	90.7	63.4	51.2	46.9	45.3	44.0
1352.8	52.5°	1291.5	1047.4	336.3	116.7	81.6	55.6	45.8	43.3	42.0	40.9
1546.0	55°	1454.5	1133.7	334.3	108.4	72.9	49.4	42.0	40.4	38.9	37.9
1712.3	57.5°	1556.0	1145.8	275.6	99.4	62.8	44.6	38.4	37.3	35.5	34.3
1856.3	60°	1602.6	1076.7	193.1	87.6	52.8	39.9	34.5	34.0	31.7	29.9
1992.5	62.5°	1611.1	948.5	128.8	72.9	44.0	35.5	30.6	29.9	26.8	23.7
2103.3	65°	1576.6	765.1	89.1	56.9	37.6	30.9	26.3	24.7	21.4	18.3
2129.5	67.5°	1467.4	537.2	62.1	40.9	31.9	24.5	20.9	20.3	17.8	15.2
1995.6	70°	1267.3	306.2	41.5	30.6	25.2	16.7	16.5	17.0	14.4	12.4
1630.4	72.5°	971.7	140.1	25.8	22.4	17.3	11.3	13.1	13.4	11.1	9.3
1017.3	75°	572.0	60.0	16.2	14.4	8.8	7.5	9.5	9.8	7.5	5.9
371.9	77.5°	194.7	22.7	10.3	8.5	4.4	4.1	6.2	6.2	4.1	2.3
74.7	80°	44.3	8.5	5.2	3.3	2.1	1.8	2.1	1.8	1.0	0.3
22.9	82.5°	12.6	3.3	2.1	1.3	0.8	0.8	0.3	0.0	0.0	0.0
8.0	85°	3.6	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.8	87.5°	1.5	0.3	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>
413.3
377.5
318.6
245.4
180.3
155.3
150.9
146.5
141.9
137.5
133.1
128.8
124.1
118.0
109.7
97.1
83.2
68.8
56.9
48.4
43.8
40.7
37.3
34.0
29.4
22.1
17.3
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