

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: P945727

Luminaire Tested: **GALN-SB1C-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

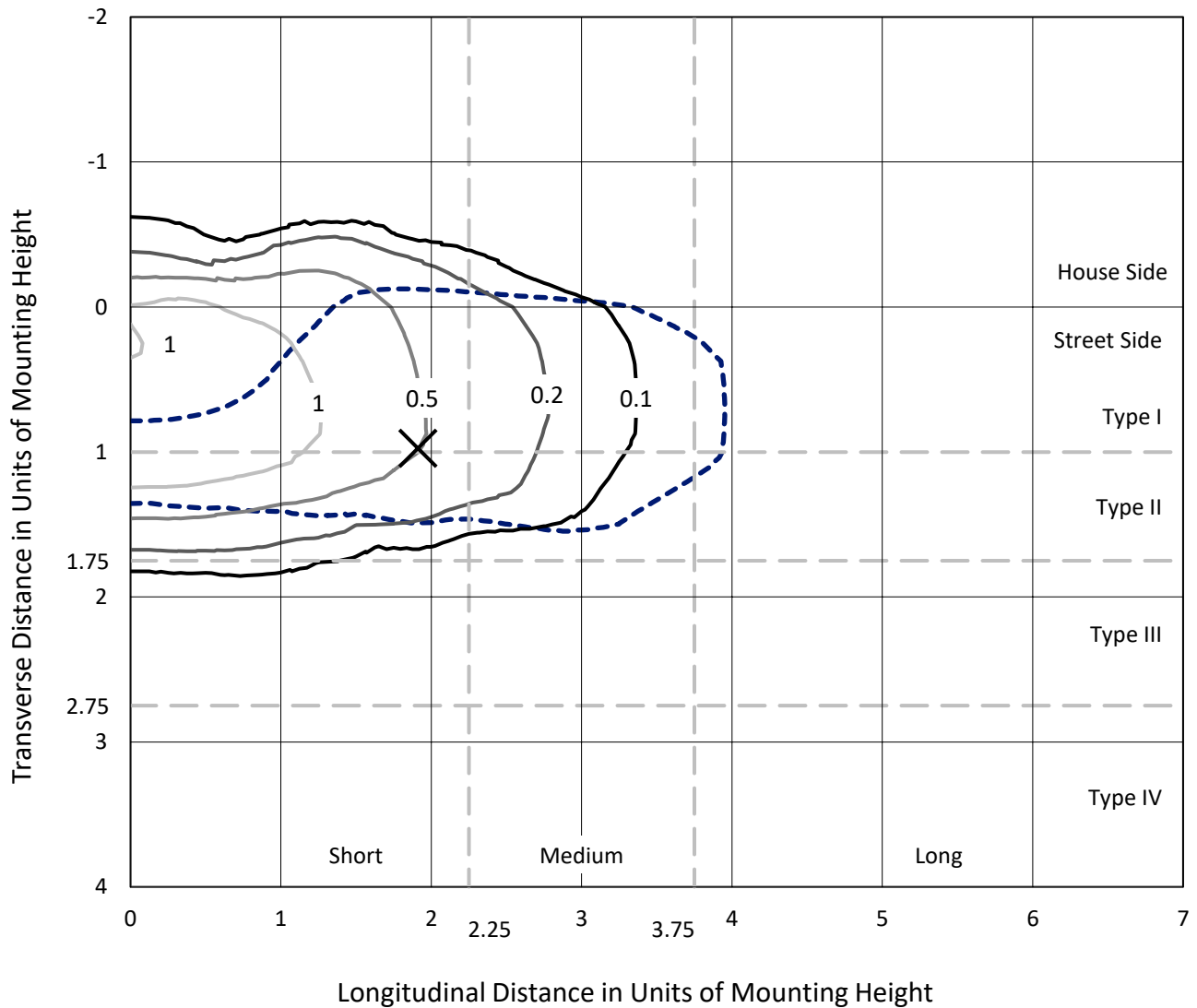
Lumens per Lamp: N/A  
Luminaire Lumens: 5145 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

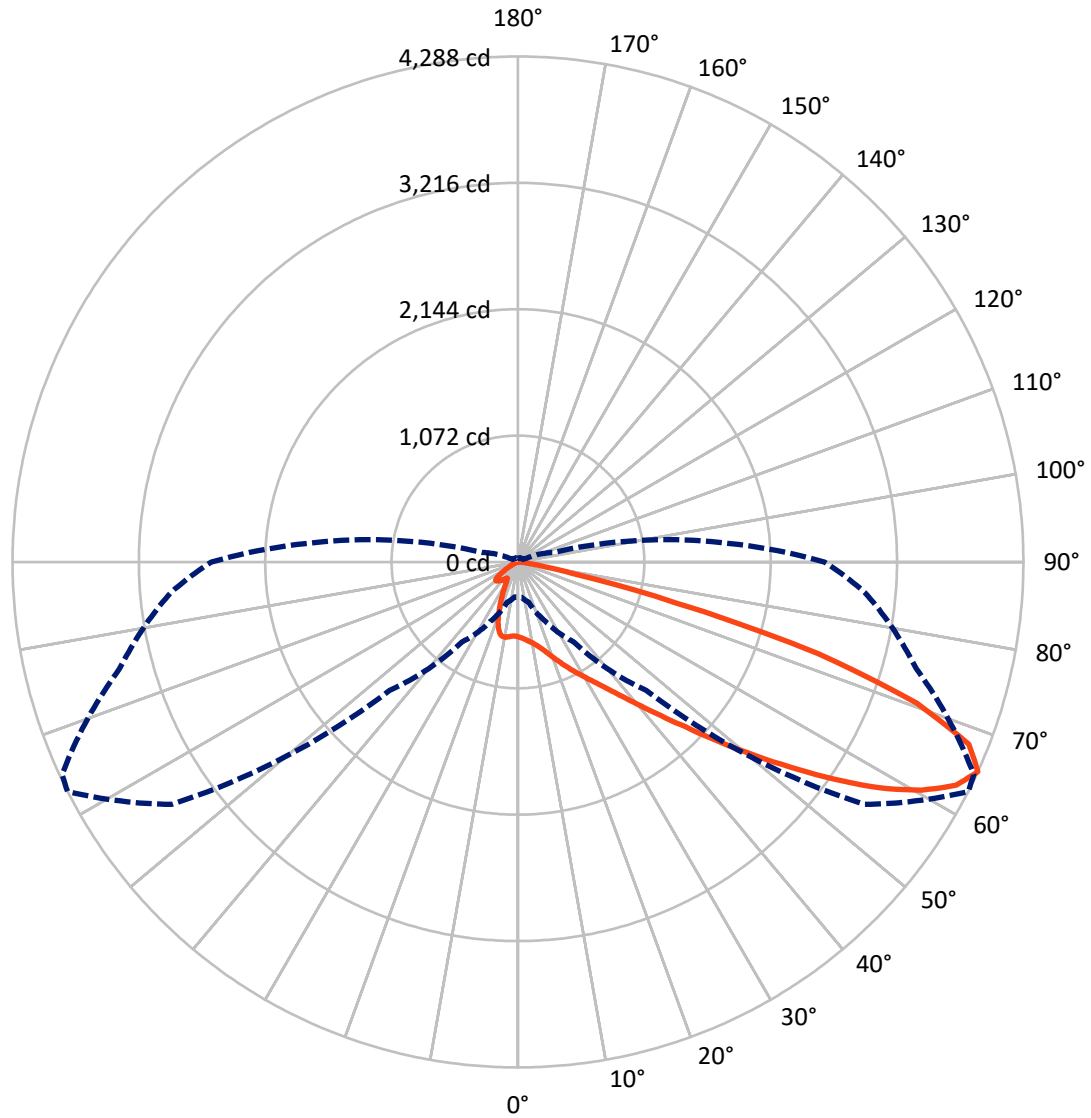
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	756.3	0.0	756.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	4388.7	0.0	4388.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	5145.0	0.0	5145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	1.2
10°-20°	166.0	3.2
20°-30°	289.1	5.6
30°-40°	521.0	10.1
40°-50°	1033.3	20.1
50°-60°	1407.5	27.4
60°-70°	1123.4	21.8
70°-80°	508.4	9.9
80°-90°	36.5	0.7
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°	5145.0	100.0
0°-180°	5145.0	100.0

**Coefficient of Utilization**



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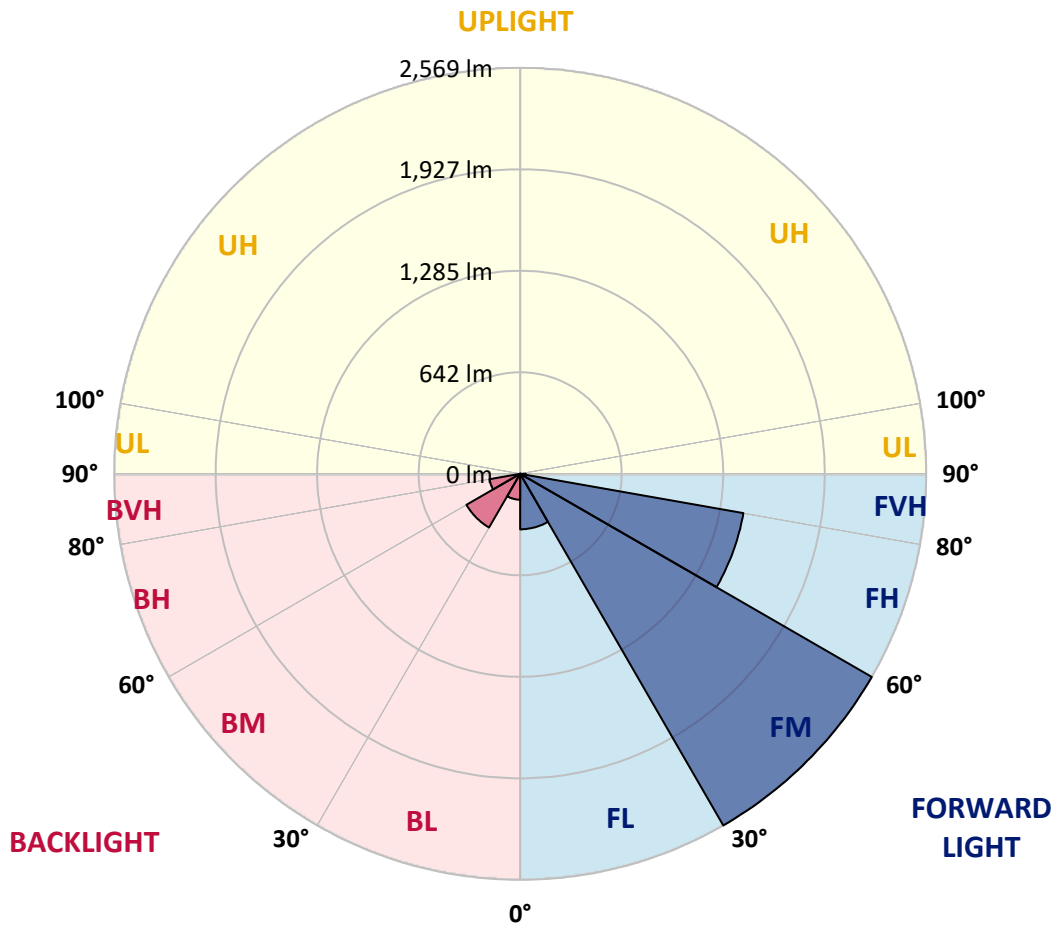
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.2	6.8			
FM (30°-60°)	2569.3	49.9			
FH (60°-80°)	1434.4	27.9			G1/1800
FVH (80°-90°)	33.8	0.7			G1/100
BL (0°-30°)	163.7	3.2	B1/500		
BM (30°-60°)	392.5	7.6	B1/1000		
BH (60°-80°)	197.4	3.8	B1/500		G1/500
BVH (80°-90°)	2.7	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
2.5°	649.9	648.1	650.6	649.5	648.8	647.4	646.7	646.0	644.5	643.5
5°	651.6	650.6	653.0	655.2	657.3	659.4	660.5	661.9	660.5	657.6
7.5°	636.8	636.1	641.4	647.7	657.3	665.4	674.3	679.2	679.6	678.5
10°	635.7	633.9	639.2	647.0	659.4	673.9	689.5	700.1	701.5	706.1
12.5°	652.3	650.6	658.0	666.5	679.2	694.5	713.6	728.4	730.6	736.9
15°	680.3	677.8	686.3	697.3	713.6	730.9	751.1	764.5	766.3	774.1
17.5°	712.9	710.4	720.3	732.0	749.7	773.4	796.7	811.6	813.7	818.7
20°	754.6	751.4	759.2	769.8	788.6	816.9	844.9	866.1	865.8	865.8
22.5°	803.1	798.2	804.9	813.4	831.1	865.4	902.6	927.7	927.7	917.8
25°	855.1	850.2	857.6	865.4	881.0	919.9	963.5	994.6	996.0	979.0
27.5°	920.3	913.9	919.6	928.8	938.0	977.6	1029.3	1065.4	1066.1	1039.9
30°	1045.6	1027.5	1009.8	999.9	1004.2	1043.5	1098.7	1138.7	1142.2	1106.1
32.5°	1274.9	1271.4	1209.1	1127.7	1085.2	1114.2	1176.2	1224.3	1226.4	1180.1
35°	1631.4	1627.1	1526.9	1371.9	1233.5	1209.1	1270.3	1327.3	1325.9	1273.5
37.5°	2056.8	2052.9	1920.9	1713.5	1489.4	1352.5	1391.7	1451.6	1460.4	1391.7
40°	2420.3	2405.8	2322.3	2122.3	1829.2	1590.3	1564.5	1604.1	1613.3	1531.9
42.5°	2695.7	2683.3	2640.8	2515.9	2240.5	1942.1	1768.0	1783.2	1793.5	1695.8
45°	2838.3	2835.5	2852.5	2840.8	2659.6	2374.0	2058.9	1995.6	1999.5	1877.4
47.5°	2858.5	2857.1	2934.6	3044.3	3019.9	2861.0	2432.4	2260.3	2246.5	2082.3
50°	2739.6	2736.8	2885.4	3091.1	3260.6	3270.2	2856.4	2558.7	2528.3	2294.3
52.5°	2359.8	2359.1	2603.3	2945.6	3345.2	3628.4	3275.5	2886.5	2835.5	2518.7
55°	1815.8	1828.9	2108.8	2513.4	3190.9	3800.7	3651.7	3250.3	3172.1	2744.5
57.5°	1286.3	1305.4	1582.2	1942.5	2712.3	3698.8	3906.2	3614.9	3530.7	2969.7
60°	690.9	707.9	985.0	1415.1	2017.9	3318.7	4040.4	3931.3	3851.7	3183.4
62.5°	411.6	417.3	532.0	913.6	1364.8	2535.4	3983.4	4172.4	4106.9	3362.9
65°	295.6	296.6	354.3	557.8	828.6	1540.4	3583.8	4287.8	4267.6	3498.1
67.5°	248.8	248.1	272.2	370.6	564.6	771.6	2746.7	4124.6	4210.3	3583.8
70°	213.4	214.5	242.8	271.5	424.4	436.8	1365.5	3591.2	3773.8	3606.4
72.5°	158.9	162.5	188.7	247.4	320.3	300.5	471.5	2662.8	2993.0	3397.9
75°	112.2	114.0	132.7	208.1	238.9	218.7	240.7	1376.5	1799.8	2605.1
77.5°	86.4	89.5	100.5	145.5	235.4	153.6	147.2	476.4	732.0	1573.7
80°	46.7	52.4	72.6	105.1	165.3	108.7	72.9	189.7	248.1	735.9
82.5°	24.1	26.9	50.6	75.7	94.2	94.9	36.1	78.9	102.3	227.2
85°	9.6	11.7	34.0	41.8	48.5	46.7	16.3	31.9	36.8	63.0
87.5°	2.1	3.5	12.4	9.6	9.2	9.9	3.9	7.4	7.1	7.4
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°
635.0	0°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
639.2	2.5°	638.9	637.5	633.6	629.3	624.4	621.5	619.8	619.4	616.9	615.2
653.4	5°	649.5	648.1	640.7	631.8	622.2	614.8	607.7	601.4	592.2	590.4
673.9	7.5°	670.7	666.8	654.8	642.8	624.7	603.1	576.9	546.9	520.0	511.8
701.2	10°	696.9	691.6	676.4	655.2	615.2	556.4	493.1	434.3	387.6	374.5
733.4	12.5°	726.7	722.1	701.9	662.6	575.2	468.6	371.6	298.7	253.4	242.1
767.7	15°	762.1	755.3	727.4	651.3	503.7	356.1	255.2	212.0	195.7	193.6
807.0	17.5°	799.6	788.6	750.0	610.6	407.4	253.1	197.2	184.8	177.7	175.6
846.7	20°	833.9	819.8	763.5	549.0	304.4	197.2	176.6	168.5	162.1	159.6
886.3	22.5°	868.2	848.1	763.5	465.1	228.3	174.9	162.1	154.7	147.2	144.1
928.8	25°	904.0	877.1	750.0	371.6	183.7	160.3	148.3	140.2	133.8	129.9
969.1	27.5°	938.7	901.5	719.2	283.2	163.5	147.6	135.6	127.8	121.8	118.9
1013.0	30°	971.6	925.6	676.0	214.8	150.4	135.2	123.9	117.2	111.1	108.3
1070.0	32.5°	1016.2	956.0	630.0	176.3	139.1	123.5	113.3	106.9	101.6	99.5
1144.0	35°	1078.1	1001.0	590.4	173.1	129.5	114.0	103.7	97.7	92.4	90.6
1239.5	37.5°	1165.9	1073.5	569.5	194.3	121.8	105.5	95.9	89.5	84.6	83.2
1360.9	40°	1274.2	1171.9	580.8	215.6	116.5	98.0	88.8	82.5	78.2	76.5
1500.4	42.5°	1402.7	1293.3	643.5	231.8	112.9	91.7	82.1	75.0	72.2	71.5
1658.6	45°	1550.3	1426.8	739.4	249.2	107.2	85.7	75.4	70.1	68.0	67.6
1830.6	47.5°	1718.1	1573.3	850.5	270.8	101.6	80.0	70.1	66.5	64.8	64.1
2010.1	50°	1884.4	1720.9	964.9	282.8	97.0	74.7	65.8	63.0	61.6	61.2
2199.8	52.5°	2058.6	1872.8	1057.3	271.5	93.1	70.4	62.3	60.2	58.8	58.4
2374.7	55°	2224.6	1995.6	1073.2	230.4	85.3	66.2	58.4	57.3	55.6	55.6
2552.0	57.5°	2367.6	2057.2	960.6	169.2	77.5	59.8	54.5	53.4	52.0	51.7
2712.0	60°	2498.9	2039.5	741.5	114.0	69.0	53.4	49.6	48.8	47.4	45.7
2851.1	62.5°	2572.9	1961.6	507.2	74.3	60.5	46.7	43.9	43.5	40.4	36.8
2954.1	65°	2600.8	1801.6	316.4	54.2	50.6	40.0	37.9	37.2	32.6	28.7
3012.5	67.5°	2576.4	1538.3	159.6	42.8	40.0	33.3	31.1	31.1	28.0	24.4
3008.9	70°	2478.7	1153.2	67.3	34.3	30.8	25.5	25.5	26.9	23.7	19.8
2852.9	72.5°	2266.7	775.9	35.7	26.2	23.0	18.1	20.9	21.9	18.8	14.9
2335.0	75°	1802.0	473.2	24.8	19.5	14.5	12.7	15.9	16.6	12.7	9.9
1600.9	77.5°	1232.5	271.8	16.6	12.4	9.2	7.4	11.0	10.3	6.7	4.6
617.3	80°	541.2	113.3	9.6	5.7	3.5	2.8	3.9	2.8	2.1	1.4
84.6	82.5°	63.4	26.5	3.5	2.1	1.4	0.7	0.4	0.0	0.0	0.0
25.8	85°	13.1	3.2	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	2.5	0.7	0.4	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>
635.0
616.9
589.7
507.9
369.5
238.9
191.5
174.5
158.2
142.3
128.5
118.9
108.7
99.5
90.6
82.8
76.1
71.5
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