

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: P944996

Luminaire Tested: **GALN-SB1A-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944996
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-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 3006 lumens
Efficiency: N/A
Efficacy: 97.3 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

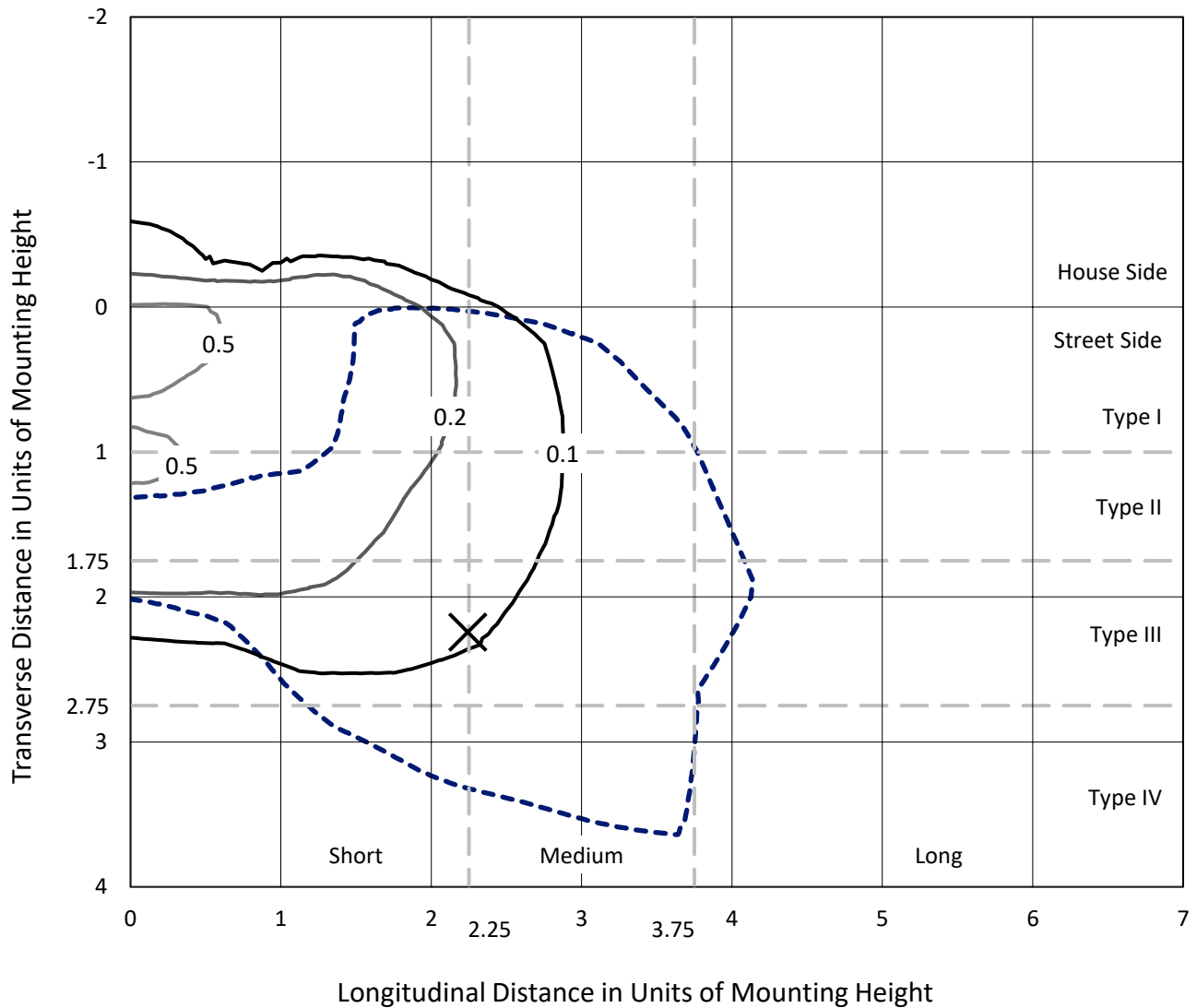
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

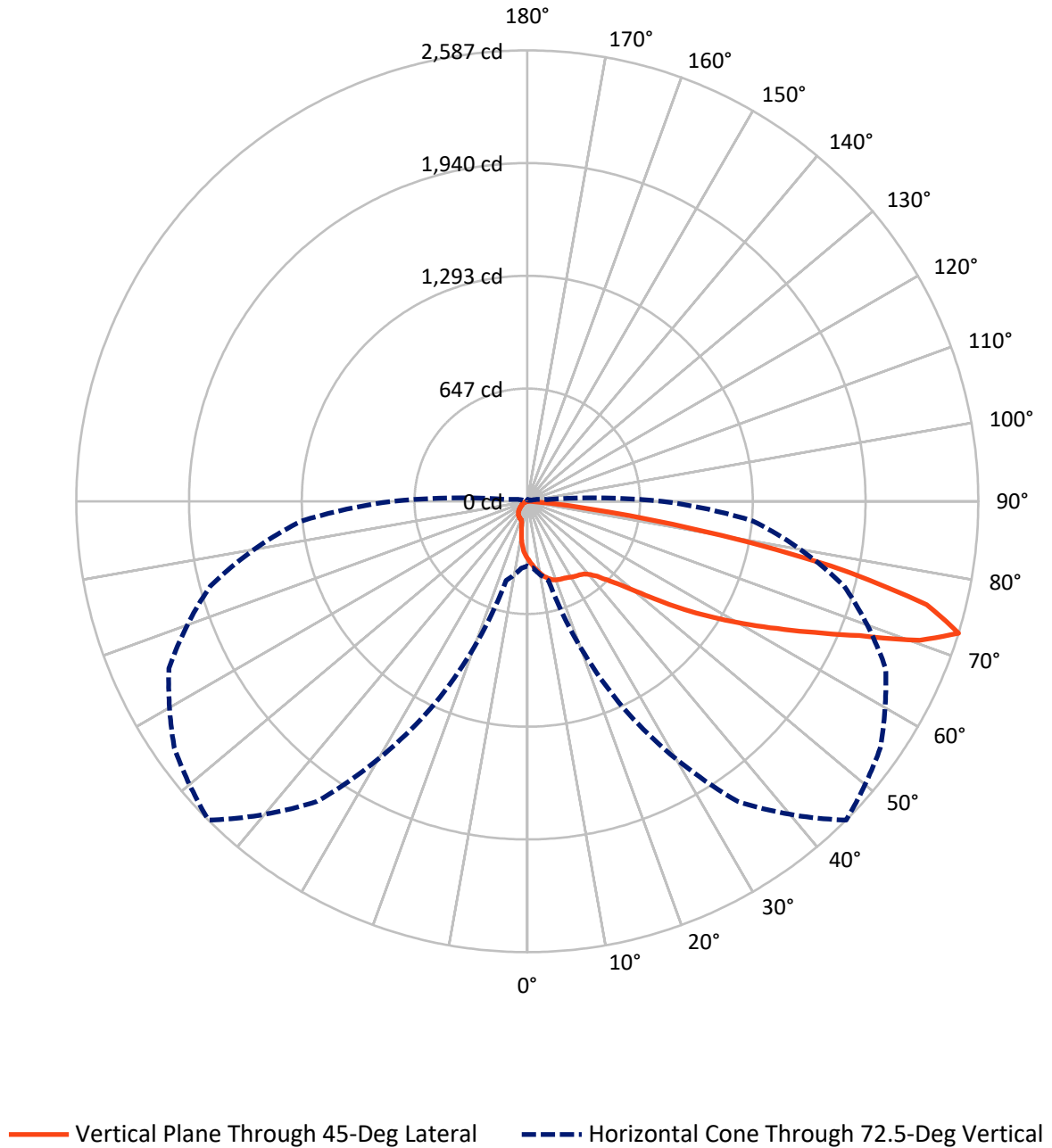
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	315.8	0.0	315.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2690.2	0.0	2690.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	3006.0	0.0	3006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	1.0
10°-20°	90.7	3.0
20°-30°	148.9	5.0
30°-40°	211.2	7.0
40°-50°	349.1	11.6
50°-60°	627.1	20.9
60°-70°	870.7	29.0
70°-80°	631.6	21.0
80°-90°	45.7	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°	3006.0	100.0
0°-180°	3006.0	100.0

Coefficient of Utilization



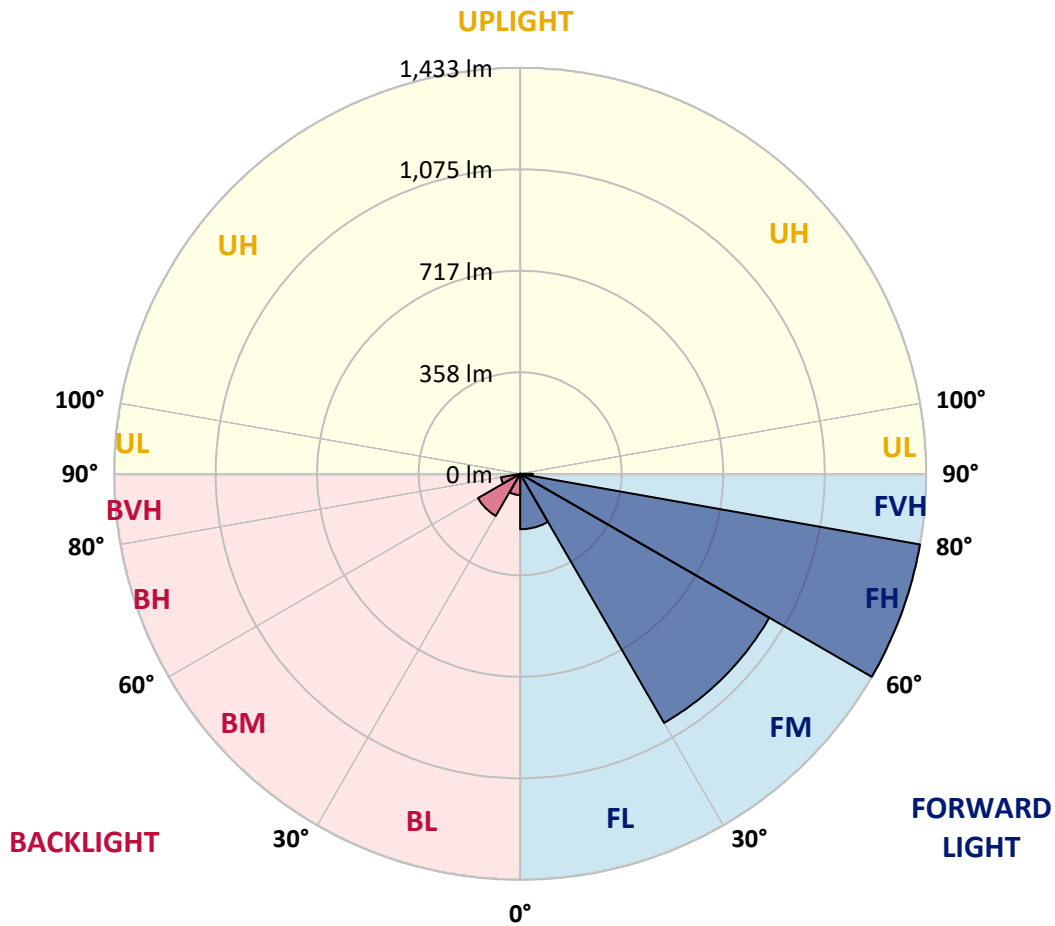
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.8	6.5			
FM (30°-60°)	1015.6	33.8			
FH (60°-80°)	1433.5	47.7			G1/1800
FVH (80°-90°)	45.3	1.5			G1/100
BL (0°-30°)	74.8	2.5	B0/110		
BM (30°-60°)	171.8	5.7	B0/220		
BH (60°-80°)	68.9	2.3	B0/110		G0/110
BVH (80°-90°)	0.4	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°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	359.7	360.3	359.9	357.4	353.3	351.1	349.8	345.7	343.1	338.3
5°	392.7	395.2	393.7	388.8	381.0	375.5	373.8	365.4	357.8	349.0
7.5°	427.8	429.0	426.4	420.0	409.5	400.1	398.7	387.0	374.9	361.3
10°	458.2	459.6	455.5	446.3	434.4	422.7	420.6	407.7	393.3	376.7
12.5°	483.6	485.0	479.7	468.6	455.5	443.4	441.3	427.8	412.0	393.5
15°	502.9	505.6	498.4	486.5	472.3	460.2	459.2	445.9	430.5	409.9
17.5°	514.2	516.8	510.1	495.7	483.6	473.3	472.1	461.0	446.7	427.0
20°	516.0	518.5	511.3	498.8	488.7	480.5	479.9	471.9	461.4	442.6
22.5°	510.5	513.6	507.0	496.9	490.0	485.7	484.8	480.3	474.4	458.4
25°	504.7	507.2	502.3	493.5	489.8	489.4	490.0	489.1	487.9	474.4
27.5°	504.3	507.0	501.5	493.0	491.0	495.3	495.9	499.8	500.8	488.9
30°	507.8	509.7	504.3	495.5	494.5	504.3	504.5	511.5	513.2	501.3
32.5°	515.4	517.5	512.1	499.2	497.8	511.5	512.1	521.4	524.0	514.4
35°	533.3	535.7	529.6	509.5	504.3	518.3	520.1	531.0	536.3	528.3
37.5°	577.8	570.6	562.2	530.2	519.3	529.0	532.0	544.8	554.2	545.0
40°	688.4	665.8	639.5	565.5	545.6	551.7	554.2	566.9	579.8	570.8
42.5°	854.4	827.7	785.4	646.7	585.2	588.3	590.1	601.2	619.4	612.3
45°	1002.3	992.7	949.6	785.4	659.2	644.1	646.3	652.1	678.9	676.3
47.5°	1116.0	1110.4	1077.2	944.6	784.4	712.4	718.7	721.4	760.2	769.6
50°	1203.4	1201.3	1171.6	1086.2	947.9	813.1	815.4	809.6	867.7	891.1
52.5°	1285.9	1292.8	1270.9	1217.7	1122.5	945.1	944.6	917.6	995.9	1031.2
55°	1360.3	1362.8	1365.1	1351.9	1298.2	1095.3	1091.4	1047.0	1144.7	1181.2
57.5°	1430.3	1431.3	1451.4	1478.3	1481.0	1256.5	1249.3	1196.2	1307.2	1333.3
60°	1477.3	1482.0	1524.5	1599.2	1631.8	1422.9	1419.0	1364.9	1472.6	1484.7
62.5°	1409.6	1438.3	1545.4	1693.6	1774.2	1607.4	1605.5	1554.6	1646.6	1636.7
65°	1141.0	1189.6	1378.0	1757.4	1913.9	1813.4	1816.0	1761.9	1825.3	1793.3
67.5°	798.1	849.4	1072.3	1762.5	2070.1	2055.3	2070.7	1985.7	2015.1	1943.3
70°	551.9	578.4	723.5	1652.1	2191.7	2388.5	2388.1	2260.7	2203.8	2011.6
72.5°	371.2	384.9	469.9	1310.7	2102.3	2586.5	2574.6	2470.8	2267.4	1881.3
75°	156.6	166.6	217.5	736.6	1663.2	2366.3	2334.1	2183.5	2014.7	1481.4
77.5°	49.7	54.0	85.8	263.7	916.1	1778.7	1744.6	1363.6	1350.3	743.2
80°	23.6	27.5	48.2	105.9	360.5	967.4	962.7	618.6	580.9	200.7
82.5°	10.3	12.1	26.7	56.6	161.3	345.1	352.1	210.5	174.2	76.1
85°	3.3	4.3	12.3	26.1	68.1	85.8	84.7	50.1	70.2	41.4
87.5°	0.0	0.0	4.1	6.0	7.0	4.9	5.5	4.3	19.5	11.5
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°
329.3	0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
333.4	2.5°	331.0	327.7	321.9	316.6	311.9	307.2	304.3	300.2	299.8	299.8
338.8	5°	333.2	327.9	317.6	306.7	294.2	282.3	270.4	258.9	255.2	252.6
347.4	7.5°	339.8	331.4	315.2	294.4	270.6	244.6	226.3	206.6	199.0	194.9
358.9	10°	349.2	337.7	313.1	276.8	238.2	202.7	176.7	155.3	147.1	143.6
371.4	12.5°	359.7	345.5	309.4	254.8	202.7	160.2	134.8	125.0	123.7	123.7
386.4	15°	372.2	355.0	303.1	229.0	165.6	126.8	117.8	118.2	119.4	120.2
400.9	17.5°	385.1	365.0	293.0	200.1	132.8	114.1	114.3	114.9	115.9	116.7
416.7	20°	399.1	375.1	279.7	169.3	113.9	110.4	111.0	111.6	112.4	112.8
431.5	22.5°	414.1	384.5	263.9	139.1	107.5	107.3	107.5	108.1	109.2	109.2
448.7	25°	430.1	395.0	245.8	117.2	104.2	104.2	104.6	105.1	105.9	105.9
465.3	27.5°	446.5	404.6	226.7	105.7	101.4	101.2	101.2	101.8	102.2	102.4
481.8	30°	464.5	415.9	207.6	103.2	99.1	98.1	97.5	97.9	98.3	98.5
499.0	32.5°	483.0	426.8	190.6	104.2	96.8	95.0	92.9	92.5	92.5	93.4
516.8	35°	503.5	438.7	177.5	107.7	95.6	90.5	87.2	85.4	85.6	86.8
538.2	37.5°	528.1	453.0	167.8	110.8	94.8	85.4	80.0	77.8	76.3	77.8
567.5	40°	560.3	474.2	160.9	113.3	93.8	79.4	72.2	68.5	65.9	66.7
613.1	42.5°	607.7	507.4	158.2	113.5	91.5	72.4	64.2	59.3	55.4	55.6
681.6	45°	674.2	559.9	171.9	110.8	86.6	64.8	55.8	49.2	46.8	46.2
784.0	47.5°	765.3	636.5	203.7	105.3	79.4	57.5	47.6	42.1	40.2	39.2
918.4	50°	887.4	734.7	239.0	99.1	72.2	50.5	40.8	37.3	36.1	35.1
1077.8	52.5°	1029.0	834.5	268.0	92.9	65.0	44.3	36.5	34.5	33.4	32.6
1231.7	55°	1158.9	903.2	266.3	86.4	58.1	39.4	33.4	32.2	31.0	30.2
1364.2	57.5°	1239.7	912.8	219.5	79.2	50.1	35.5	30.6	29.8	28.3	27.3
1478.9	60°	1276.8	857.9	153.9	69.8	42.1	31.8	27.5	27.1	25.2	23.8
1587.5	62.5°	1283.6	755.7	102.6	58.1	35.1	28.3	24.4	23.8	21.3	18.9
1675.7	65°	1256.1	609.6	71.0	45.3	30.0	24.6	20.9	19.7	17.0	14.6
1696.6	67.5°	1169.1	428.0	49.4	32.6	25.4	19.5	16.6	16.2	14.2	12.1
1589.9	70°	1009.7	244.0	33.0	24.4	20.1	13.3	13.1	13.5	11.5	9.8
1299.0	72.5°	774.1	111.6	20.5	17.9	13.7	9.0	10.5	10.7	8.8	7.4
810.5	75°	455.7	47.8	12.9	11.5	7.0	6.0	7.6	7.8	6.0	4.7
296.3	77.5°	155.1	18.1	8.2	6.8	3.5	3.3	4.9	4.9	3.3	1.8
59.5	80°	35.3	6.8	4.1	2.7	1.6	1.4	1.6	1.4	0.8	0.2
18.3	82.5°	10.1	2.7	1.6	1.0	0.6	0.6	0.2	0.0	0.0	0.0
6.4	85°	2.9	1.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	1.2	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>
329.3
300.8
253.8
195.5
143.6
123.7
120.2
116.7
113.1
109.6
106.1
102.6
98.9
94.0
87.4
77.4
66.3
54.8
45.3
38.6
34.9
32.4
29.8
27.1
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