

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: P938871

Luminaire Tested: **GALN-SB1A-950-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938871  
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-950-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

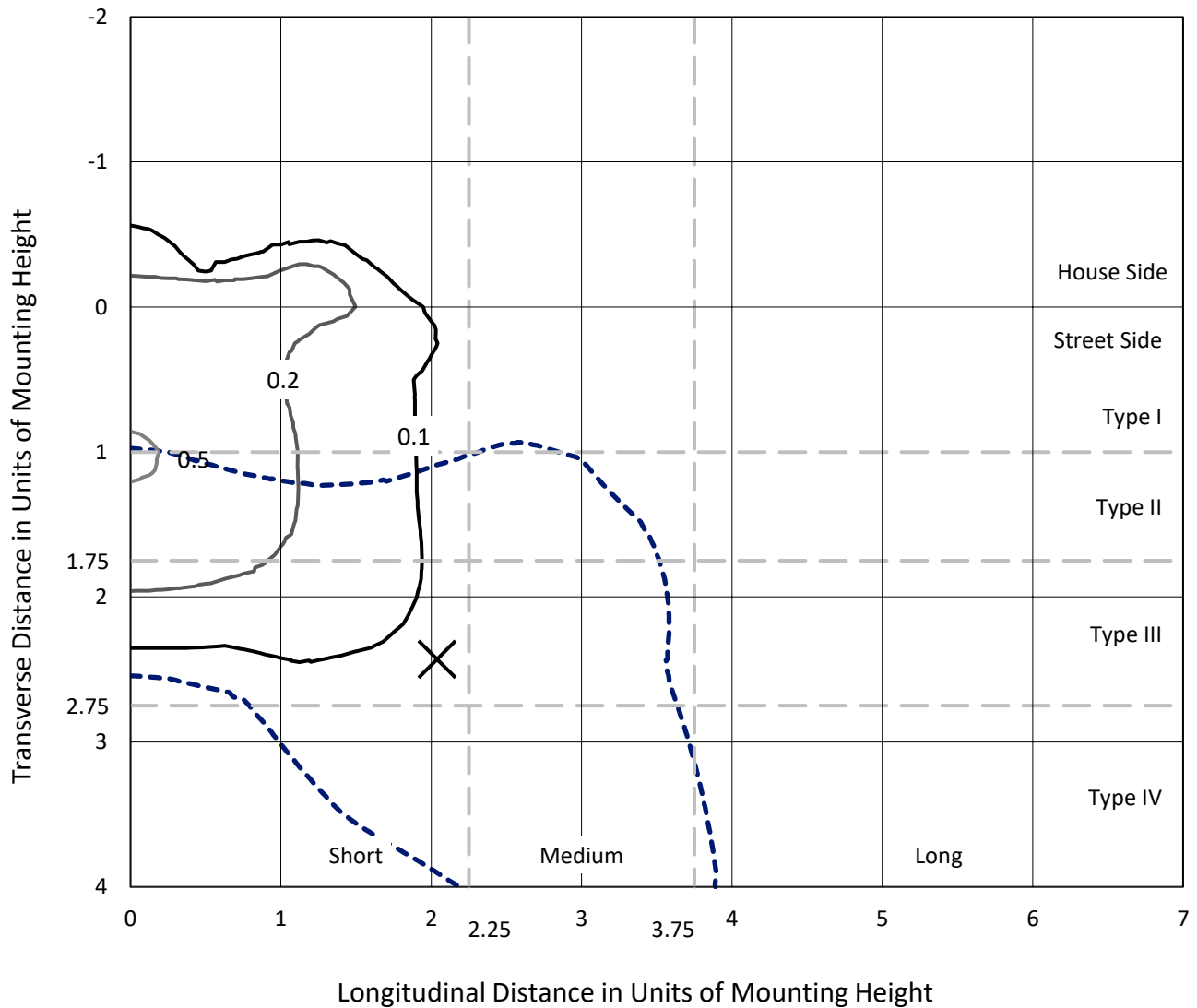
Lumens per Lamp: N/A  
Luminaire Lumens: 2179 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

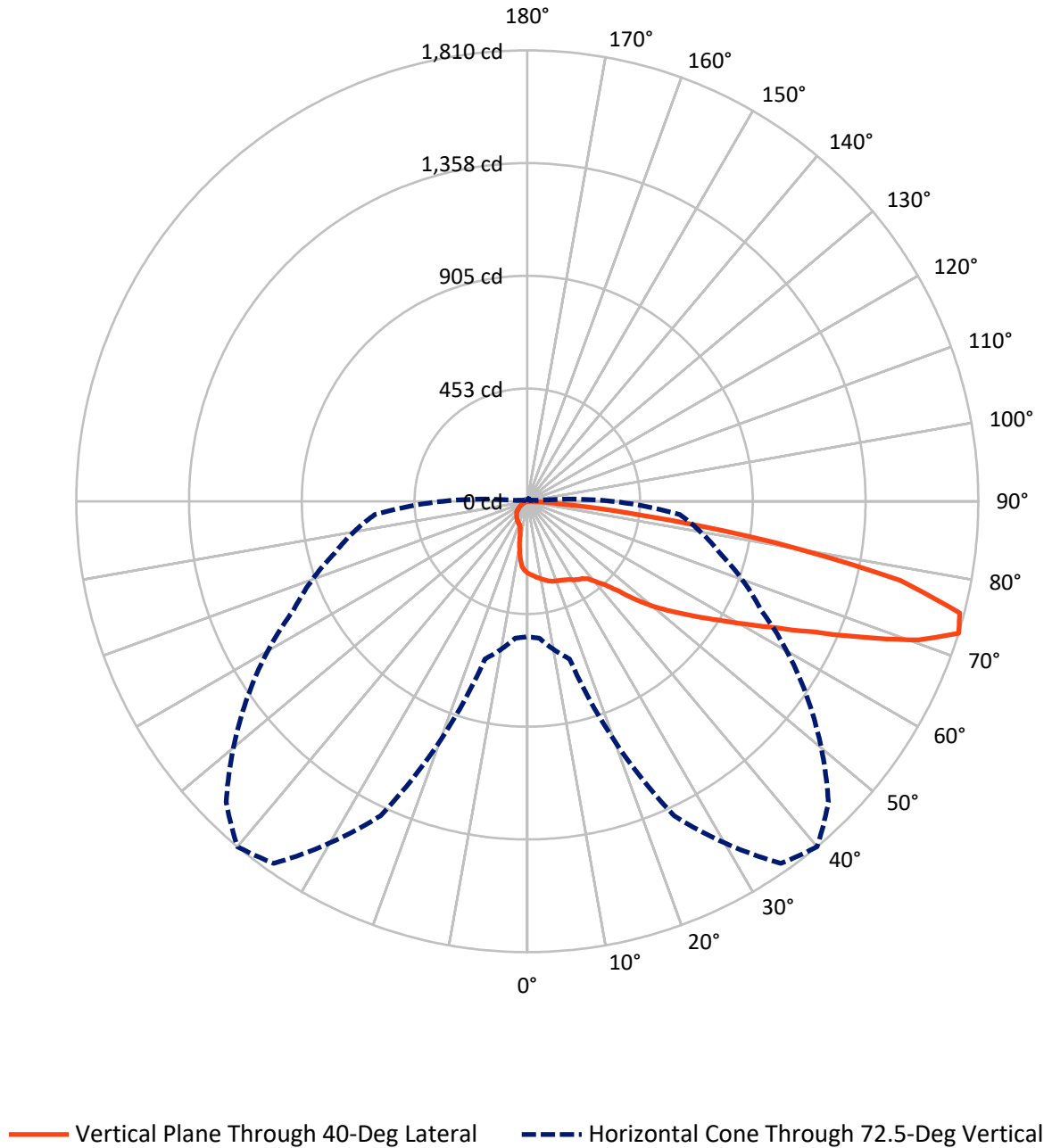
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	281.4	0.0	281.4
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	1897.6	0.0	1897.6
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	2179.0	0.0	2179.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.3	1.2
10°-20°	71.6	3.3
20°-30°	115.8	5.3
30°-40°	170.9	7.8
40°-50°	287.7	13.2
50°-60°	446.7	20.5
60°-70°	559.0	25.7
70°-80°	457.6	21.0
80°-90°	43.4	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°	2179.0	100.0
0°-180°	2179.0	100.0

**Coefficient of Utilization**



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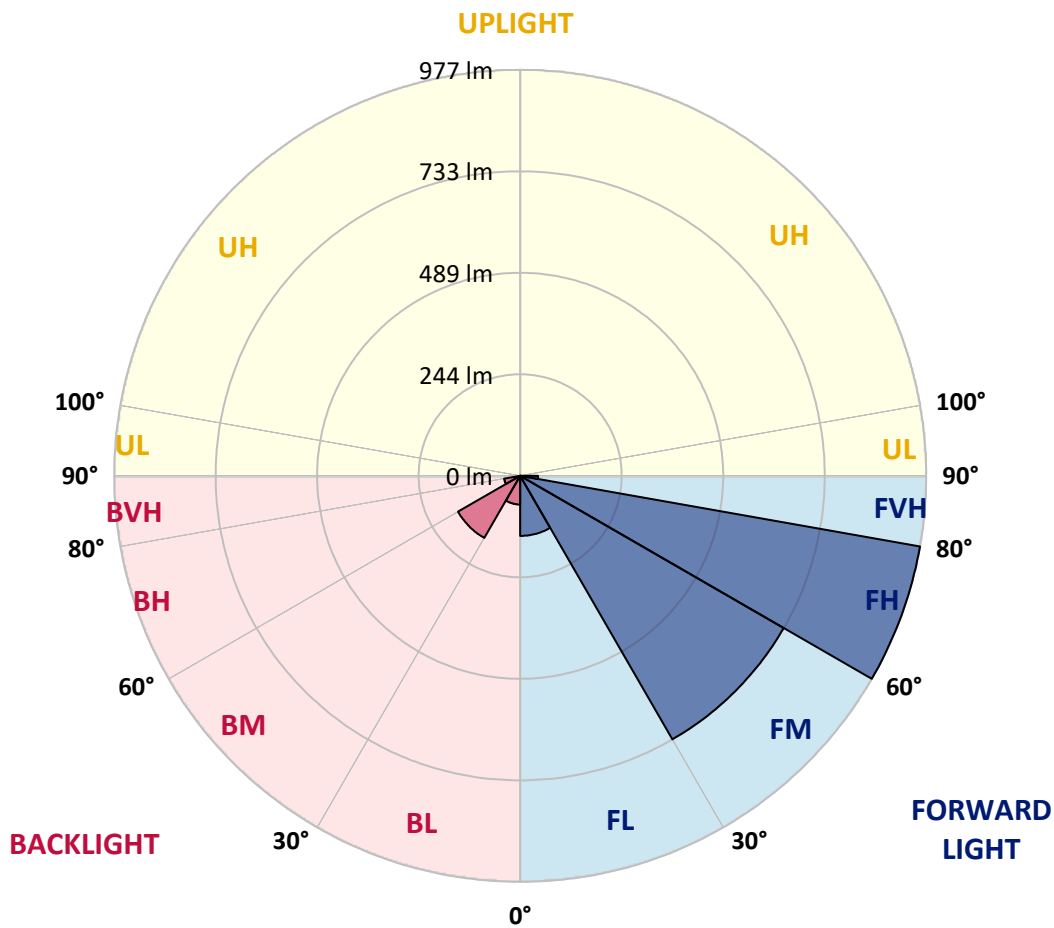
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.6	6.6			
FM (30°-60°)	732.5	33.6			
FH (60°-80°)	977.4	44.9			G1/1800
FVH (80°-90°)	43.1	2.0			G1/100
BL (0°-30°)	69.1	3.2	B0/110		
BM (30°-60°)	172.8	7.9	B0/220		
BH (60°-80°)	39.2	1.8	B0/110		G0/110
BVH (80°-90°)	0.3	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°	40°	45°	55°	65°	75°
0°	288.5	288.5	288.5	288.5	288.5	288.5	288.5	288.5	288.5	288.5
2.5°	297.2	298.4	297.7	296.4	296.1	295.4	294.6	294.3	293.1	292.1
5°	305.6	306.7	305.9	304.1	303.3	302.5	301.3	300.3	298.0	295.9
7.5°	314.8	315.8	314.8	312.2	310.8	309.9	308.2	306.7	304.1	301.0
10°	325.0	325.8	324.3	320.8	318.7	317.2	315.8	314.1	311.7	308.2
12.5°	334.5	335.5	333.2	329.1	326.6	325.1	323.5	322.2	319.7	316.4
15°	343.2	344.6	340.7	336.3	333.5	332.3	330.7	329.9	328.2	325.9
17.5°	349.7	350.7	346.6	341.4	338.2	337.4	336.3	336.8	336.4	335.3
20°	355.3	356.0	350.6	344.2	340.7	340.9	340.5	342.2	342.8	342.8
22.5°	362.2	362.4	355.5	347.4	343.3	344.5	345.0	346.8	348.1	349.4
25°	371.2	370.9	362.7	351.7	348.1	349.7	350.9	351.5	353.0	355.1
27.5°	384.7	383.7	373.2	358.6	354.3	355.8	357.9	357.6	357.0	358.6
30°	401.8	400.4	386.5	368.3	364.3	365.7	366.3	363.4	358.6	360.1
32.5°	428.8	426.5	407.2	379.1	373.0	374.5	373.7	367.6	360.6	362.0
35°	475.9	470.4	443.0	401.8	382.9	381.2	379.3	373.4	364.7	363.2
37.5°	576.0	566.2	519.4	445.9	405.2	394.5	388.5	382.6	369.1	363.2
40°	689.0	679.0	625.0	519.8	442.3	424.2	409.8	393.4	373.7	365.3
42.5°	806.8	795.8	740.3	611.3	495.3	458.2	431.3	402.1	381.2	371.9
45°	938.4	924.6	852.1	706.9	572.3	514.7	465.9	420.0	394.4	383.5
47.5°	1077.3	1059.4	963.5	799.6	655.2	592.8	529.3	452.0	413.7	400.9
50°	1200.4	1182.6	1078.6	896.6	732.6	667.1	601.5	496.3	442.8	425.6
52.5°	1288.8	1275.4	1183.3	996.7	813.2	736.9	667.0	547.8	479.5	457.1
55°	1348.1	1335.7	1257.5	1091.5	906.9	813.7	731.5	603.8	523.9	494.8
57.5°	1384.0	1376.9	1311.1	1176.2	999.8	897.7	805.3	665.3	576.0	539.3
60°	1396.8	1391.1	1344.4	1257.0	1112.1	998.7	892.1	734.8	639.4	589.8
62.5°	1362.7	1363.8	1368.4	1352.7	1230.4	1116.8	996.2	818.1	709.6	647.1
65°	1202.0	1211.5	1298.8	1458.7	1387.1	1264.8	1128.6	919.9	790.1	712.3
67.5°	995.2	1009.0	1117.6	1520.7	1554.2	1457.0	1313.1	1049.5	885.9	778.6
70°	761.8	776.6	908.2	1507.7	1710.6	1667.1	1541.2	1214.5	985.2	824.5
72.5°	543.7	551.3	655.0	1392.4	1774.8	1810.2	1709.3	1370.7	1035.9	799.1
75°	382.1	380.8	449.5	1121.2	1674.8	1792.8	1650.4	1286.2	937.4	634.8
77.5°	166.4	166.7	224.5	680.9	1336.7	1531.2	1371.9	805.6	653.5	336.4
80°	43.2	44.5	82.4	271.1	804.8	1010.6	836.7	354.2	302.0	82.1
82.5°	15.3	16.2	37.9	85.2	296.9	463.5	372.5	113.2	78.8	23.5
85°	4.4	5.3	20.4	26.1	61.4	131.0	90.4	22.0	19.4	12.1
87.5°	0.0	0.7	4.1	3.6	3.6	2.5	4.6	2.5	3.1	1.5
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°
288.5	0°	288.5	288.5	288.5	288.5	288.5	288.5	288.5	288.5	288.5	288.5
291.0	2.5°	290.0	288.8	286.4	283.8	281.3	279.0	278.3	275.9	274.7	274.9
293.3	5°	291.5	289.3	284.6	278.8	272.9	266.2	260.6	252.7	246.0	245.2
297.7	7.5°	295.4	292.0	284.3	273.1	258.3	239.8	222.5	205.5	195.8	190.5
304.3	10°	301.5	296.9	285.1	263.7	232.4	199.2	173.1	151.6	140.6	135.6
312.3	12.5°	308.7	303.6	286.4	247.8	198.9	155.4	127.2	114.1	111.8	111.4
322.2	15°	318.9	313.3	287.9	226.3	162.6	118.3	105.4	105.5	107.3	108.3
332.8	17.5°	330.2	324.6	285.7	200.1	126.9	101.1	100.8	102.2	104.9	105.9
342.7	20°	341.7	336.4	278.2	169.2	102.6	96.3	97.6	99.3	101.9	103.2
352.4	22.5°	353.5	348.9	266.2	136.4	92.6	92.9	94.5	96.2	99.1	100.6
361.9	25°	366.1	362.2	250.3	109.3	88.3	89.3	91.4	93.4	96.5	98.3
369.9	27.5°	378.9	376.0	232.2	91.2	84.4	85.5	88.0	90.6	93.7	95.8
377.0	30°	392.9	391.3	217.8	84.5	80.6	81.6	84.4	87.3	90.8	93.4
384.0	32.5°	407.2	406.8	210.7	89.4	77.1	77.8	80.3	83.2	87.5	90.8
389.9	35°	421.3	421.9	206.6	103.4	76.0	74.2	75.8	78.4	83.5	87.6
396.7	37.5°	439.3	441.0	206.5	118.5	78.8	70.6	71.7	73.5	78.0	82.7
407.2	40°	466.3	475.0	217.0	131.5	83.7	67.3	67.6	67.9	70.2	74.2
421.1	42.5°	502.0	527.5	254.9	140.3	85.7	64.3	63.2	61.4	61.1	63.2
440.2	45°	546.5	591.0	321.5	145.2	83.7	61.1	57.9	53.2	51.4	52.8
465.9	47.5°	598.9	660.6	400.4	146.4	80.4	56.9	51.4	45.1	43.7	44.1
500.6	50°	649.9	712.8	469.9	136.9	75.0	51.7	44.1	38.9	37.9	38.1
541.4	52.5°	695.0	730.6	489.6	114.4	67.8	45.3	37.9	34.3	33.6	33.6
586.6	55°	724.9	711.3	436.6	87.5	58.8	38.7	32.5	30.7	30.4	30.2
636.9	57.5°	731.1	648.3	329.7	63.2	46.0	32.7	28.9	27.9	27.2	26.6
688.6	60°	708.8	543.2	209.9	44.1	34.5	27.9	25.6	24.9	23.6	22.3
737.2	62.5°	660.6	410.3	116.2	30.7	27.7	23.8	22.6	21.8	19.4	17.2
775.8	65°	595.7	272.8	51.4	24.0	22.6	20.0	19.4	18.2	15.3	12.8
790.4	67.5°	530.6	157.1	23.1	19.2	18.2	16.4	15.9	15.1	13.0	10.7
753.1	70°	456.2	79.6	15.9	15.3	14.1	12.5	13.0	12.8	10.7	8.7
614.3	72.5°	339.7	39.6	12.0	11.5	10.2	8.9	10.7	10.5	8.4	6.6
378.8	75°	192.3	19.5	8.7	8.0	6.1	6.6	8.5	8.0	5.7	4.3
159.8	77.5°	76.3	10.0	5.7	4.9	3.6	4.4	6.2	5.4	3.0	1.8
30.5	80°	17.6	4.9	3.0	2.1	1.6	2.6	3.3	2.0	0.8	0.2
8.2	82.5°	4.9	2.1	1.0	0.8	0.8	1.0	0.8	0.3	0.0	0.0
2.1	85°	1.6	1.0	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.7	87.5°	0.7	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>
288.5
274.7
244.7
190.2
134.6
111.3
108.2
105.7
103.2
100.6
98.3
96.0
93.7
91.1
88.3
83.5
75.5
64.3
52.8
44.0
38.1
33.5
29.9
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