

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: P945899

Luminaire Tested: **GALN-SB1C-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945899
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-SB1C-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 615mA 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: 4014 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

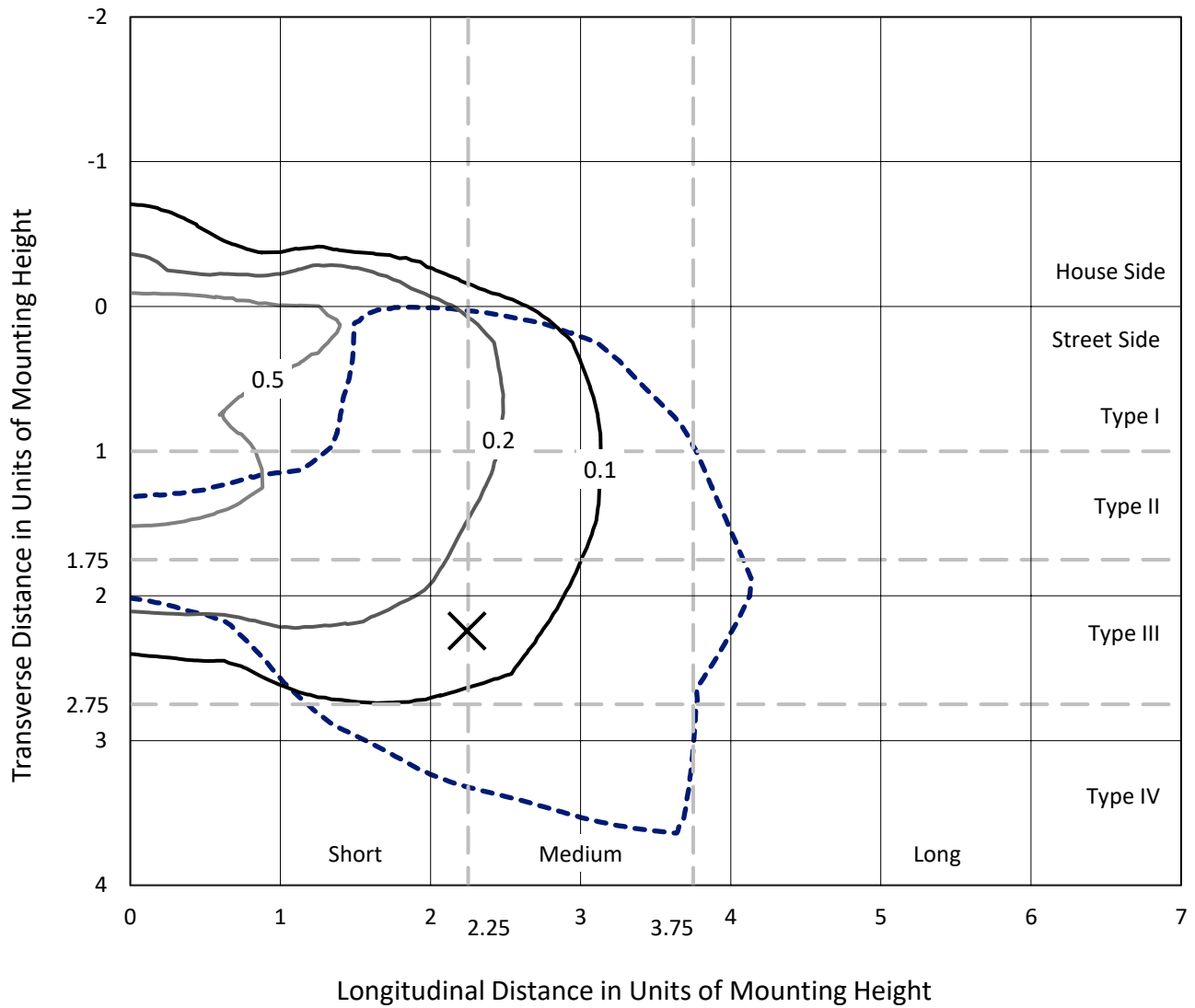
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

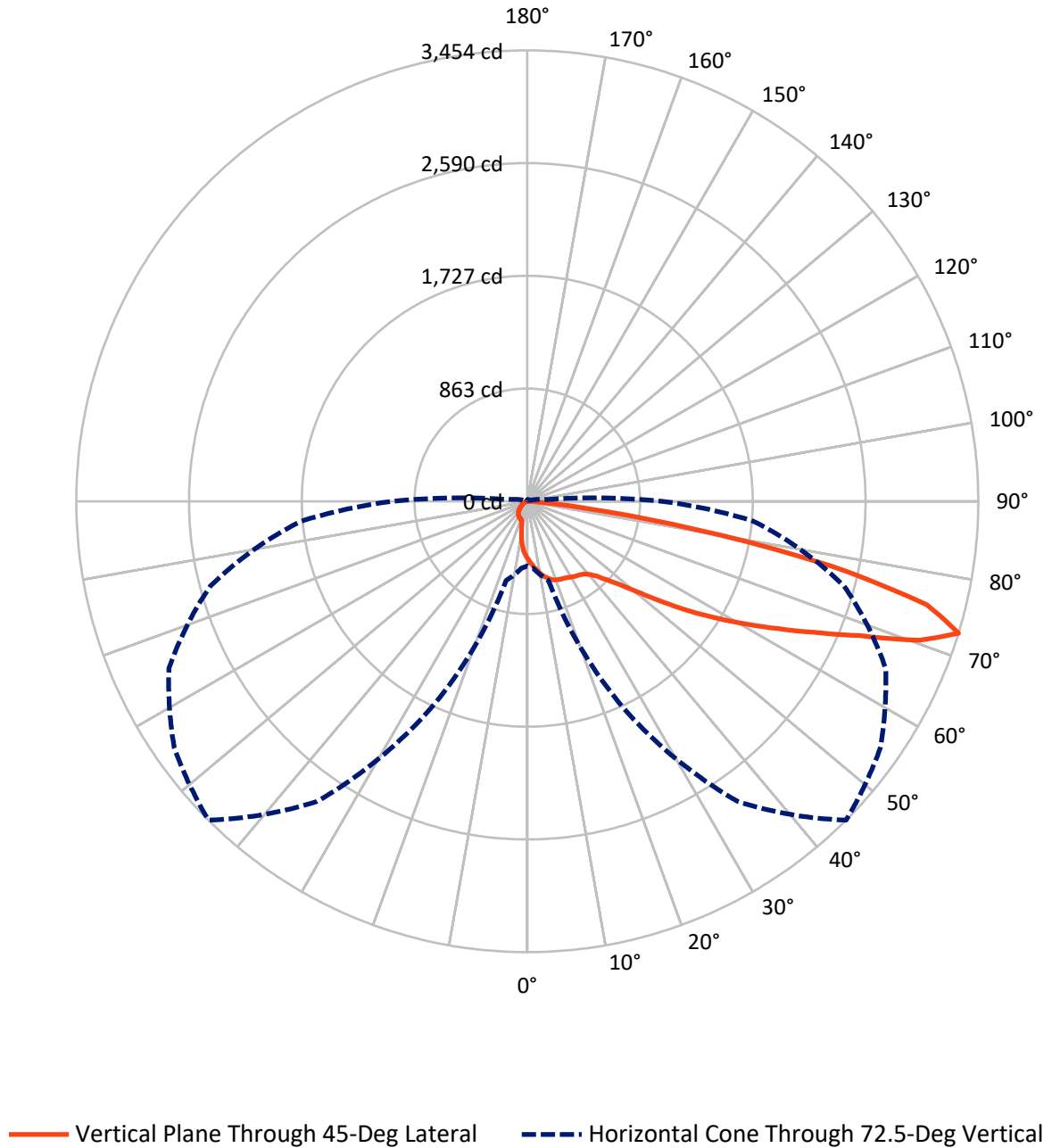
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	421.8	0.0	421.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3592.2	0.0	3592.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	4014.0	0.0	4014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.0
10°-20°	121.1	3.0
20°-30°	198.8	5.0
30°-40°	282.0	7.0
40°-50°	466.1	11.6
50°-60°	837.4	20.9
60°-70°	1162.7	29.0
70°-80°	843.4	21.0
80°-90°	61.0	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°	4014.0	100.0
0°-180°	4014.0	100.0

Coefficient of Utilization



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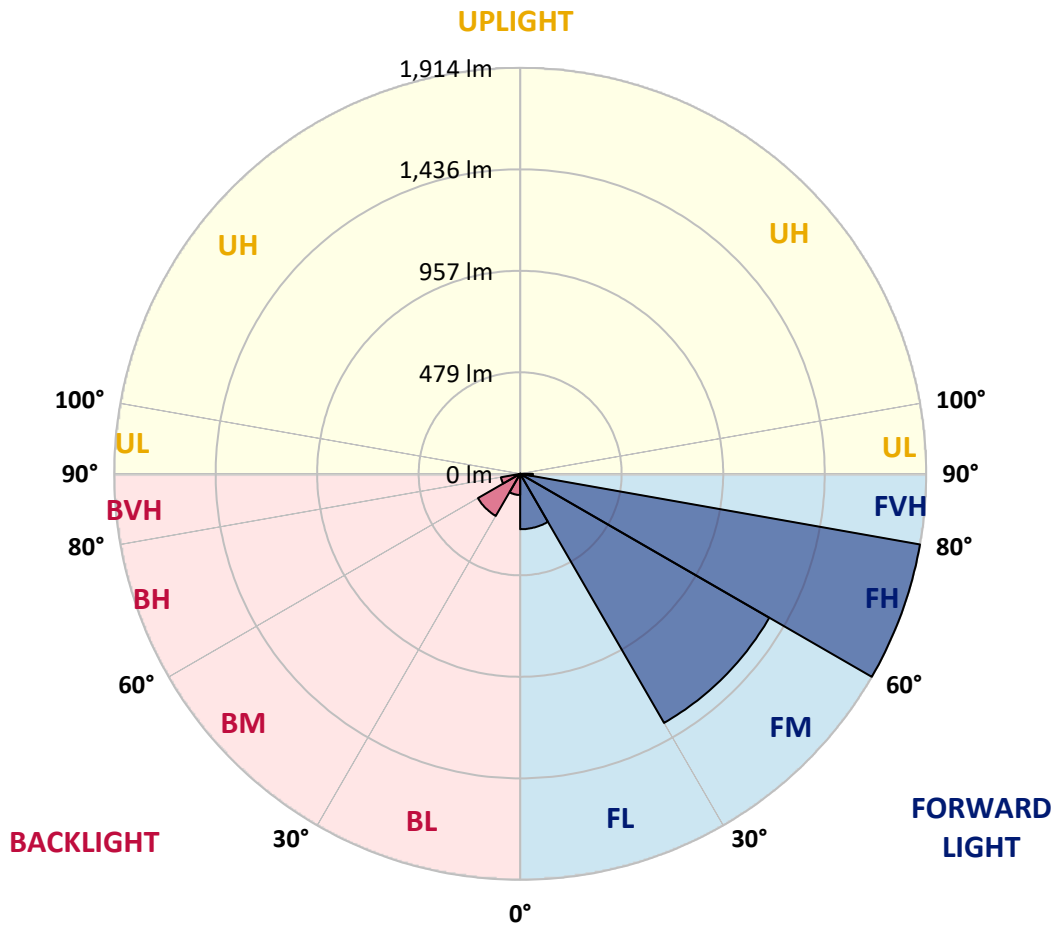
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.5	6.5			
FM (30°-60°)	1356.1	33.8			
FH (60°-80°)	1914.2	47.7			G2/5000
FVH (80°-90°)	60.5	1.5			G1/100
BL (0°-30°)	99.9	2.5	B0/110		
BM (30°-60°)	229.4	5.7	B1/1000		
BH (60°-80°)	92.0	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: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7
2.5°	480.3	481.1	480.6	477.3	471.8	468.8	467.1	461.7	458.1	451.8
5°	524.4	527.7	525.8	519.2	508.8	501.4	499.2	488.0	477.8	466.0
7.5°	571.3	572.9	569.3	560.8	546.9	534.3	532.3	516.7	500.6	482.5
10°	611.8	613.7	608.2	595.9	580.0	564.4	561.7	544.4	525.2	503.0
12.5°	645.8	647.7	640.6	625.8	608.2	592.1	589.3	571.3	550.2	525.5
15°	671.5	675.1	665.5	649.6	630.7	614.5	613.2	595.4	574.8	547.4
17.5°	686.6	690.2	681.1	661.9	645.8	632.1	630.4	615.6	596.5	570.2
20°	689.1	692.4	682.8	666.1	652.6	641.7	640.8	630.2	616.2	591.0
22.5°	681.7	685.8	677.0	663.6	654.3	648.5	647.4	641.4	633.4	612.1
25°	674.0	677.3	670.7	658.9	654.0	653.4	654.3	653.2	651.5	633.4
27.5°	673.4	677.0	669.6	658.4	655.6	661.4	662.2	667.4	668.8	652.9
30°	678.1	680.6	673.4	661.7	660.3	673.4	673.7	683.0	685.2	669.3
32.5°	688.2	691.0	683.9	666.6	664.7	683.0	683.9	696.2	699.8	686.9
35°	712.1	715.4	707.1	680.3	673.4	692.1	694.5	709.1	716.2	705.5
37.5°	771.5	761.9	750.7	708.0	693.5	706.3	710.4	727.4	740.0	727.7
40°	919.2	889.1	854.0	755.1	728.5	736.7	740.0	757.0	774.3	762.2
42.5°	1140.9	1105.2	1048.8	863.6	781.4	785.5	788.0	802.8	827.2	817.6
45°	1338.4	1325.5	1268.0	1048.8	880.3	860.0	863.0	870.7	906.6	903.0
47.5°	1490.2	1482.8	1438.4	1261.4	1047.4	951.3	959.8	963.3	1015.1	1027.7
50°	1606.9	1604.2	1564.4	1450.5	1265.8	1085.8	1088.8	1081.1	1158.7	1189.9
52.5°	1717.0	1726.4	1697.0	1626.1	1499.0	1262.0	1261.4	1225.3	1329.9	1377.0
55°	1816.5	1819.8	1822.8	1805.3	1733.5	1462.5	1457.3	1398.1	1528.5	1577.3
57.5°	1909.9	1911.3	1938.2	1974.0	1977.6	1677.9	1668.3	1597.3	1745.5	1780.3
60°	1972.7	1979.0	2035.7	2135.4	2179.0	1900.1	1894.9	1822.5	1966.4	1982.5
62.5°	1882.3	1920.6	2063.6	2261.5	2369.1	2146.4	2143.9	2076.0	2198.7	2185.6
65°	1523.6	1588.6	1840.1	2346.7	2555.7	2421.5	2425.0	2352.7	2437.4	2394.6
67.5°	1065.8	1134.3	1431.8	2353.5	2764.2	2744.5	2765.0	2651.6	2690.8	2594.9
70°	737.0	772.4	966.1	2206.1	2926.7	3189.4	3188.9	3018.7	2942.8	2686.1
72.5°	495.6	514.0	627.4	1750.2	2807.2	3453.8	3437.9	3299.3	3027.8	2512.1
75°	209.0	222.5	290.4	983.6	2220.9	3159.8	3116.8	2915.7	2690.2	1978.2
77.5°	66.3	72.1	114.5	352.1	1223.3	2375.2	2329.7	1820.9	1803.1	992.4
80°	31.5	36.7	64.4	141.4	481.4	1291.8	1285.5	826.1	775.6	268.0
82.5°	13.7	16.2	35.6	75.6	215.4	460.8	470.2	281.1	232.6	101.6
85°	4.4	5.8	16.4	34.8	91.0	114.5	113.2	66.9	93.7	55.3
87.5°	0.0	0.0	5.5	7.9	9.3	6.6	7.4	5.8	26.0	15.3
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°
439.7	0°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7
445.2	2.5°	441.9	437.6	429.9	422.8	416.5	410.2	406.3	400.8	400.3	400.3
452.3	5°	444.9	437.8	424.1	409.6	392.9	377.0	361.1	345.8	340.8	337.3
463.9	7.5°	453.7	442.5	420.8	393.2	361.4	326.6	302.2	275.9	265.8	260.3
479.2	10°	466.3	451.0	418.1	369.6	318.1	270.7	235.9	207.4	196.4	191.8
495.9	12.5°	480.3	461.4	413.2	340.3	270.7	214.0	180.0	166.9	165.2	165.2
515.9	15°	497.0	474.0	404.7	305.8	221.1	169.3	157.3	157.8	159.5	160.6
535.4	17.5°	514.3	487.4	391.2	267.1	177.3	152.3	152.6	153.4	154.8	155.9
556.5	20°	532.9	500.8	373.4	226.0	152.1	147.4	148.2	149.0	150.1	150.7
576.2	22.5°	552.9	513.4	352.3	185.8	143.6	143.3	143.6	144.4	145.8	145.8
599.2	25°	574.3	527.4	328.2	156.4	139.2	139.2	139.7	140.3	141.4	141.4
621.4	27.5°	596.2	540.3	302.8	141.1	135.3	135.1	135.1	135.9	136.4	136.7
643.3	30°	620.3	555.4	277.3	137.8	132.3	131.0	130.1	130.7	131.2	131.5
666.3	32.5°	645.0	569.9	254.5	139.2	129.3	126.9	124.1	123.6	123.6	124.7
690.2	35°	672.4	585.8	237.0	143.8	127.7	120.8	116.4	114.0	114.3	115.9
718.7	37.5°	705.2	605.0	224.1	148.0	126.6	114.0	106.9	103.8	101.9	103.8
757.8	40°	748.2	633.2	214.8	151.2	125.2	106.0	96.4	91.5	87.9	89.0
818.7	42.5°	811.5	677.6	211.2	151.5	122.2	96.7	85.8	79.2	74.0	74.2
910.2	45°	900.3	747.7	229.6	148.0	115.6	86.6	74.5	65.8	62.5	61.6
1046.9	47.5°	1022.0	849.9	272.1	140.6	106.0	76.7	63.6	56.2	53.7	52.3
1226.3	50°	1185.0	981.1	319.2	132.3	96.4	67.4	54.5	49.9	48.2	46.9
1439.2	52.5°	1374.0	1114.3	357.8	124.1	86.9	59.2	48.8	46.0	44.7	43.6
1644.7	55°	1547.5	1206.1	355.6	115.3	77.5	52.6	44.7	43.0	41.4	40.3
1821.7	57.5°	1655.4	1218.9	293.2	105.8	66.9	47.4	40.8	39.7	37.8	36.4
1974.9	60°	1705.0	1145.5	205.5	93.2	56.2	42.5	36.7	36.2	33.7	31.8
2119.8	62.5°	1714.0	1009.1	137.0	77.5	46.9	37.8	32.6	31.8	28.5	25.2
2237.6	65°	1677.3	814.0	94.8	60.6	40.0	32.9	27.9	26.3	22.7	19.5
2265.6	67.5°	1561.2	571.5	66.0	43.6	34.0	26.0	22.2	21.6	18.9	16.2
2123.1	70°	1348.3	325.8	44.1	32.6	26.9	17.8	17.5	18.1	15.3	13.2
1734.6	72.5°	1033.7	149.0	27.4	23.8	18.4	12.1	14.0	14.2	11.8	9.9
1082.2	75°	608.5	63.8	17.3	15.3	9.3	7.9	10.1	10.4	7.9	6.3
395.6	77.5°	207.1	24.1	11.0	9.0	4.7	4.4	6.6	6.6	4.4	2.5
79.5	80°	47.1	9.0	5.5	3.6	2.2	1.9	2.2	1.9	1.1	0.3
24.4	82.5°	13.4	3.6	2.2	1.4	0.8	0.8	0.3	0.0	0.0	0.0
8.5	85°	3.8	1.6	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	1.6	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>
439.7
401.7
338.9
261.1
191.8
165.2
160.6
155.9
151.0
146.3
141.6
137.0
132.1
125.5
116.7
103.3
88.5
73.2
60.6
51.5
46.6
43.3
39.7
36.2
31.2
23.6
18.4
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