

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: P939518

Luminaire Tested: **GALN-SB2A-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

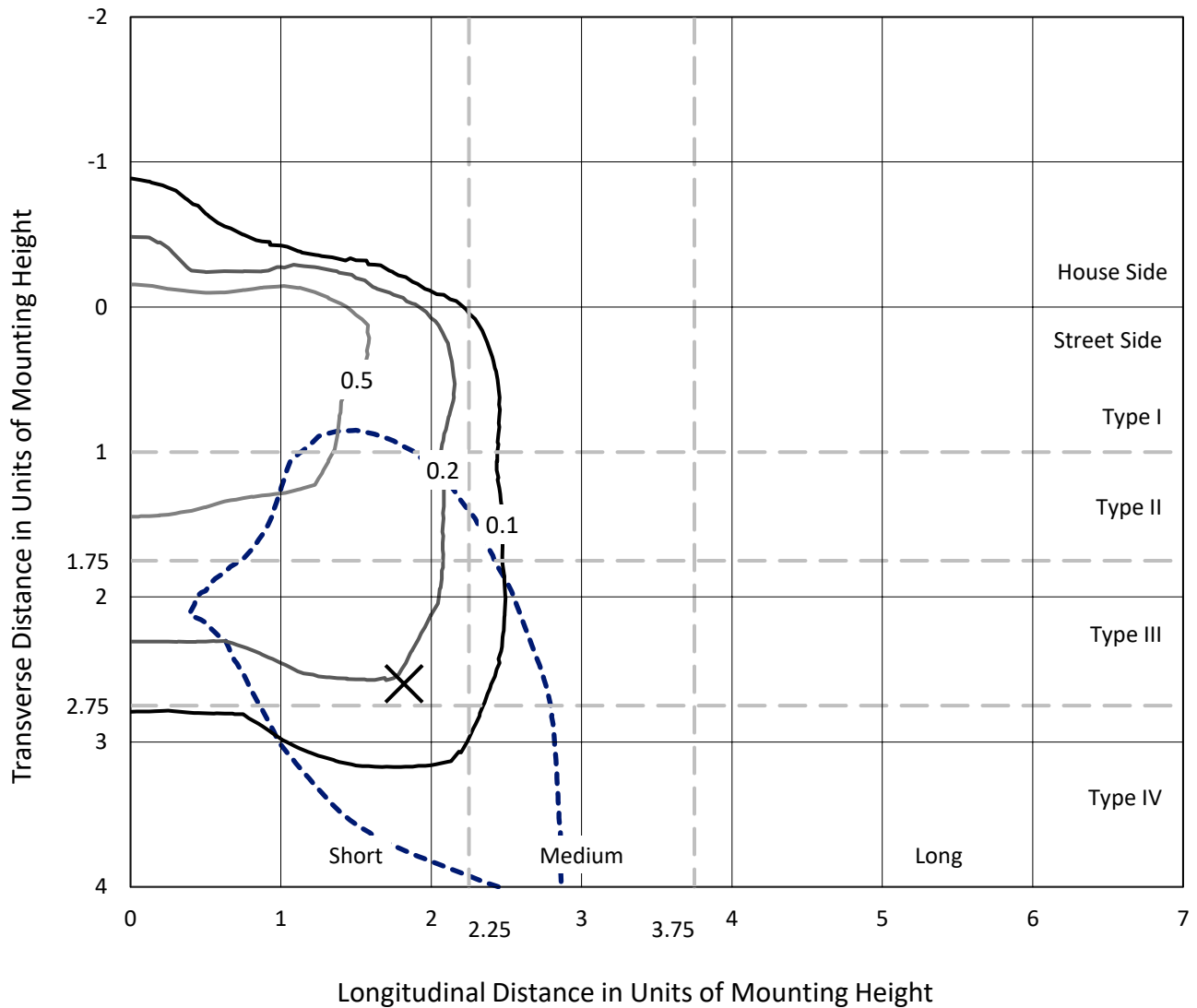
Lumens per Lamp: N/A  
Luminaire Lumens: 4134 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

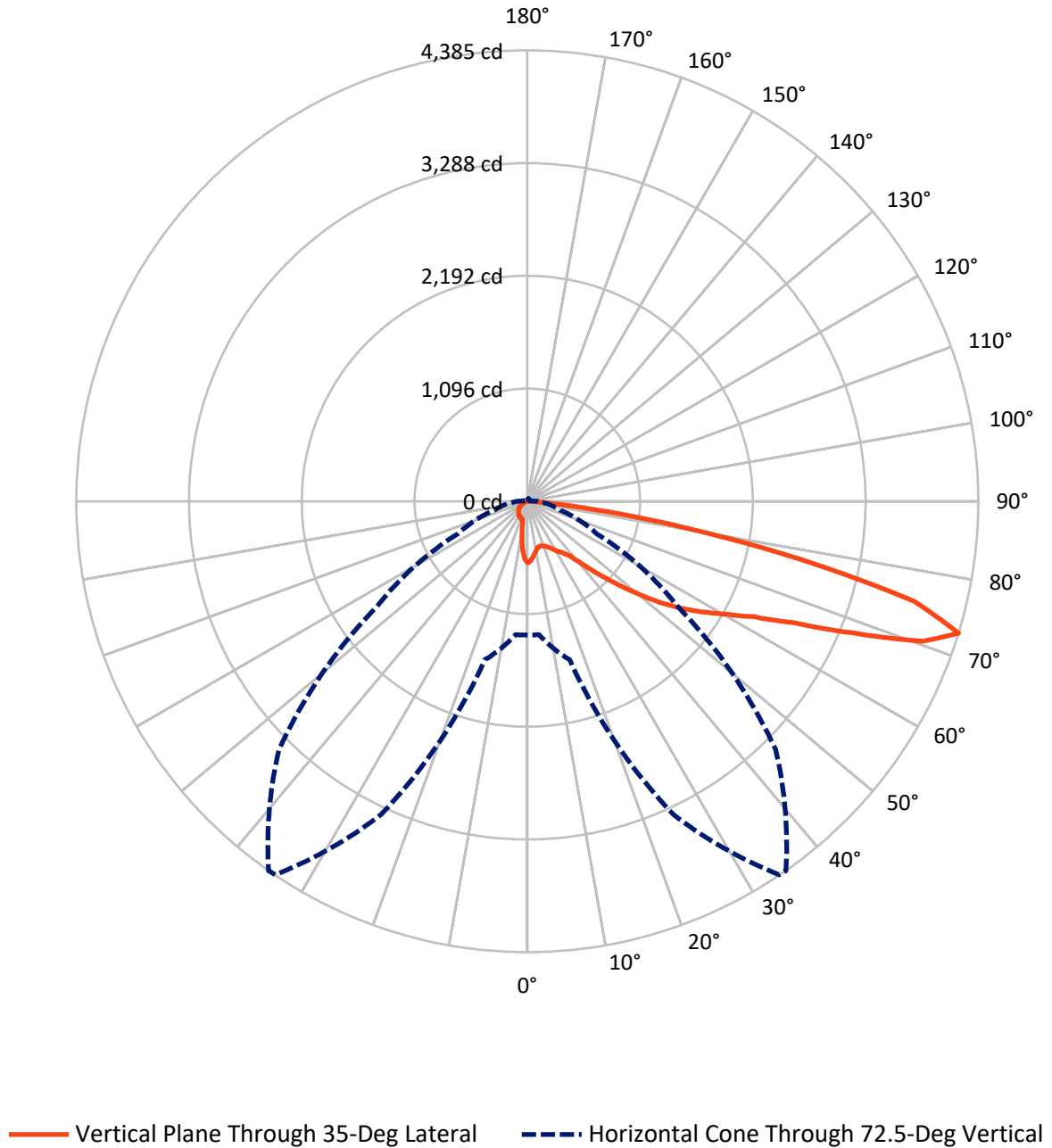
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	465.3	0.0	465.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	3668.7	0.0	3668.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	4134.0	0.0	4134.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	1.2
10°-20°	115.2	2.8
20°-30°	187.1	4.5
30°-40°	312.2	7.6
40°-50°	590.7	14.3
50°-60°	938.5	22.7
60°-70°	1161.0	28.1
70°-80°	721.7	17.5
80°-90°	58.3	1.4
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°	4134.0	100.0
0°-180°	4134.0	100.0

**Coefficient of Utilization**



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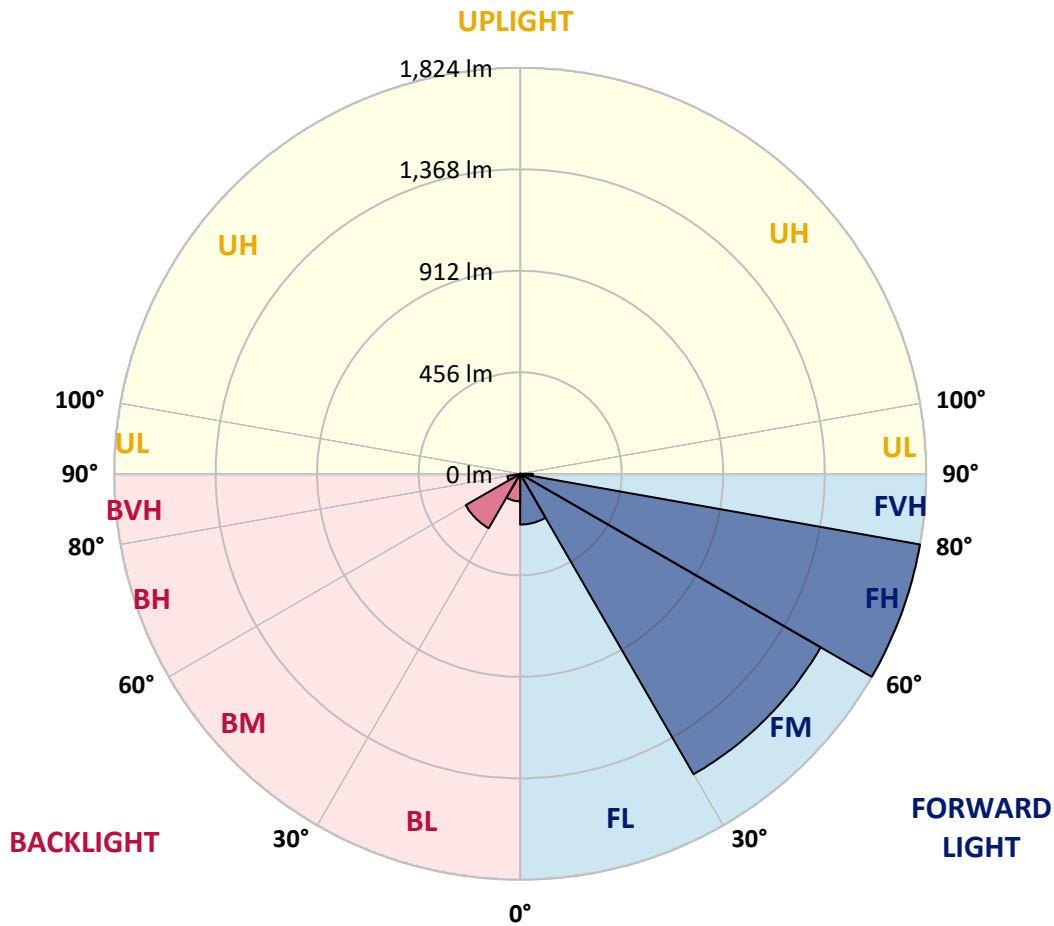
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.9	5.5			
FM (30°-60°)	1558.9	37.7			
FH (60°-80°)	1824.4	44.1			G2/5000
FVH (80°-90°)	57.5	1.4			G1/100
BL (0°-30°)	123.6	3.0	B1/500		
BM (30°-60°)	282.5	6.8	B1/1000		
BH (60°-80°)	58.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.8	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°	34°	35°	45°	55°	65°	75°
0°	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2
2.5°	572.5	577.3	578.3	579.8	579.8	581.6	584.6	588.9	595.8	599.5
5°	527.7	531.3	535.8	539.5	546.4	547.4	559.2	570.7	586.7	598.9
7.5°	482.5	486.8	492.8	501.6	510.7	513.4	531.3	550.7	576.1	598.9
10°	450.7	451.0	456.5	465.3	479.8	483.1	505.0	532.5	564.3	595.2
12.5°	432.9	435.0	437.4	444.1	458.0	460.1	483.4	515.9	552.5	593.1
15°	432.9	434.4	435.9	439.2	450.4	452.2	472.8	505.3	546.4	594.0
17.5°	437.4	439.8	438.6	442.6	454.4	455.6	473.8	502.2	546.1	599.8
20°	448.3	450.1	447.7	450.1	461.9	464.4	483.1	508.0	551.3	609.8
22.5°	465.6	466.5	460.7	462.5	474.7	477.7	499.5	524.3	563.7	625.8
25°	487.4	489.2	480.4	482.5	494.0	497.7	522.8	548.9	583.4	647.9
27.5°	512.5	513.4	505.9	505.6	520.4	525.5	551.0	579.2	609.8	675.8
30°	541.3	544.0	536.8	535.5	554.3	558.6	583.7	616.4	648.5	717.6
32.5°	564.0	566.1	561.9	564.9	584.0	587.3	623.4	669.1	709.4	777.0
35°	596.7	597.9	588.3	593.7	615.5	624.0	677.6	743.0	786.1	851.5
37.5°	715.2	715.2	674.0	647.0	667.9	675.5	751.8	836.0	880.6	951.4
40°	879.0	876.3	816.0	760.9	758.2	773.0	857.5	953.3	1002.6	1071.4
42.5°	1053.8	1049.6	967.5	913.0	903.9	909.0	979.6	1097.7	1148.0	1217.7
45°	1208.9	1207.7	1132.6	1059.3	1042.9	1059.3	1132.0	1266.8	1302.8	1376.1
47.5°	1338.9	1338.9	1284.0	1236.2	1227.7	1237.4	1338.3	1454.3	1450.9	1544.8
50°	1488.5	1487.3	1435.2	1414.6	1423.4	1437.0	1575.7	1651.8	1604.2	1710.5
52.5°	1593.3	1600.6	1582.7	1579.4	1624.2	1647.8	1816.9	1845.0	1741.4	1867.7
55°	1676.3	1684.8	1705.4	1728.7	1815.0	1845.9	2050.4	2028.3	1856.2	2004.0
57.5°	1793.8	1781.7	1813.5	1859.6	1999.2	2036.5	2276.7	2201.2	1948.6	2114.6
60°	1936.5	1938.3	1943.8	2001.9	2183.1	2230.9	2499.6	2364.8	2008.0	2182.5
62.5°	2107.9	2110.7	2121.9	2211.2	2429.9	2475.1	2737.1	2498.7	2035.2	2163.4
65°	2096.1	2107.6	2232.7	2538.4	2805.2	2849.8	3014.3	2592.6	1994.1	1988.9
67.5°	1909.5	1928.3	2137.6	2929.1	3371.1	3420.8	3349.3	2611.1	1816.2	1546.7
70°	1664.8	1671.5	1923.2	3280.5	4026.3	4076.6	3649.2	2407.8	1378.2	862.7
72.5°	1300.1	1301.6	1596.9	3362.0	4381.9	4384.6	3413.8	1787.5	741.2	331.4
75°	928.7	919.6	1069.6	2726.5	3855.1	3886.0	2559.3	838.5	283.2	156.6
77.5°	498.0	508.0	605.2	1616.9	2663.2	2715.9	1396.4	241.7	144.2	106.6
80°	153.9	162.4	248.1	740.3	1508.5	1540.3	517.7	107.5	100.6	76.0
82.5°	48.5	50.3	115.7	311.1	626.1	640.7	149.9	60.9	68.8	50.3
85°	13.9	14.2	51.5	116.0	154.8	157.8	42.1	23.6	39.4	31.2
87.5°	1.5	4.8	19.4	19.4	13.6	13.3	4.5	5.1	11.2	3.9
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°
599.2	0°	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2
601.9	2.5°	600.4	600.7	596.7	590.1	582.8	576.7	569.2	563.1	558.9	557.7
607.3	5°	604.6	602.5	591.3	571.0	546.8	525.9	502.5	484.0	471.9	466.8
613.1	7.5°	611.0	604.9	580.4	540.4	494.0	452.8	411.0	378.6	358.0	347.7
618.5	10°	616.4	604.3	562.2	496.2	425.3	362.9	306.5	267.5	245.7	235.4
624.9	12.5°	621.6	604.0	538.6	443.8	347.7	271.4	219.0	199.6	193.6	191.4
635.2	15°	631.3	604.9	508.9	383.8	270.5	205.1	186.0	185.7	186.9	186.3
651.0	17.5°	644.6	605.8	475.3	320.2	208.7	180.8	179.9	182.7	184.5	183.6
670.6	20°	661.9	609.5	439.5	257.2	179.3	174.8	176.9	179.3	180.8	179.3
697.0	22.5°	686.1	615.8	400.4	206.6	169.9	171.1	173.0	175.7	177.2	175.1
730.6	25°	715.8	625.8	362.0	179.6	165.4	166.9	169.6	172.7	174.5	172.4
773.0	27.5°	754.2	641.9	326.5	173.6	160.8	161.8	165.7	170.2	172.7	169.9
833.3	30°	810.0	668.2	295.9	176.3	158.1	156.0	161.5	167.8	170.5	168.1
915.4	32.5°	883.9	705.5	277.2	180.5	156.9	149.3	154.5	162.7	167.2	165.7
1022.6	35°	980.8	762.1	269.9	185.4	156.0	142.4	146.0	154.8	162.7	164.2
1157.7	37.5°	1098.4	840.9	272.0	187.5	153.3	136.6	138.4	146.0	156.3	161.1
1309.8	40°	1231.9	932.7	284.1	185.4	150.2	131.8	132.1	137.8	146.9	154.2
1473.4	42.5°	1369.8	1039.9	306.5	177.5	147.5	127.5	126.6	130.6	136.6	141.8
1636.6	45°	1500.9	1150.1	328.7	166.6	144.2	123.3	121.2	122.7	123.9	126.0
1795.6	47.5°	1615.4	1227.7	322.3	156.6	139.6	118.4	114.8	114.2	110.6	110.3
1937.7	50°	1694.5	1244.7	286.2	146.6	133.0	113.0	107.2	103.6	97.2	94.2
2044.0	52.5°	1719.6	1177.7	233.8	136.6	122.1	105.7	97.5	91.8	83.9	81.2
2105.2	55°	1686.3	1046.6	186.9	124.5	106.9	96.0	86.9	79.4	73.0	69.7
2111.9	57.5°	1604.8	879.6	147.8	110.3	90.9	85.1	76.0	68.5	63.0	59.7
2038.0	60°	1469.7	698.5	116.9	93.3	77.5	73.3	63.9	59.1	54.2	50.3
1847.1	62.5°	1264.6	498.6	91.8	73.9	64.8	60.0	54.5	50.9	45.1	39.7
1503.9	65°	986.9	305.0	70.9	54.2	52.1	49.7	46.3	43.0	36.0	30.6
981.1	67.5°	622.5	144.5	50.6	40.9	41.2	40.0	38.5	35.7	30.6	25.7
439.5	70°	274.1	70.0	33.3	31.2	30.6	30.6	31.8	30.9	26.1	21.5
152.7	72.5°	93.3	37.6	24.8	23.6	22.1	21.8	26.7	25.7	20.9	16.7
76.0	75°	48.8	25.1	18.2	17.0	13.3	16.1	21.2	20.0	14.8	10.9
50.3	77.5°	31.8	17.9	12.4	10.9	7.6	10.6	15.8	13.9	8.8	5.5
33.0	80°	20.0	11.8	7.3	5.1	3.6	5.8	8.5	6.1	3.3	1.2
19.4	82.5°	10.6	6.1	2.7	1.8	1.5	1.8	2.1	1.5	0.6	0.0
10.0	85°	4.2	2.1	0.9	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.8	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>
599.2
559.8
468.6
349.3
235.7
190.8
186.0
183.3
179.0
174.8
172.1
169.9
167.8
165.7
164.2
162.4
156.6
143.9
127.2
110.0
94.5
80.9
69.7
59.1
49.4
38.8
29.7
25.1
20.6
15.8
10.0
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