

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: P945704

Luminaire Tested: **GALN-SB1C-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

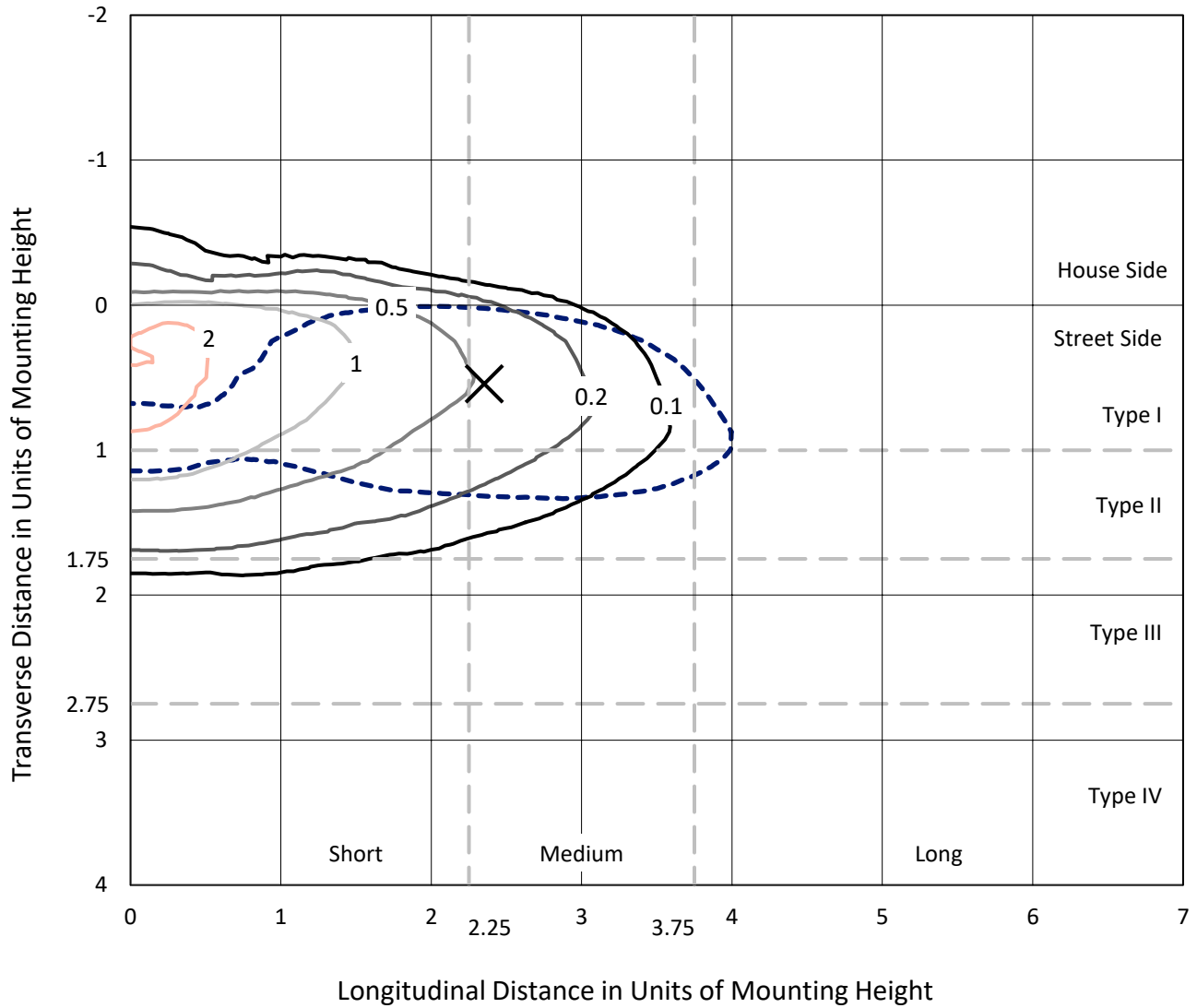
Lumens per Lamp: N/A  
Luminaire Lumens: 5516 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

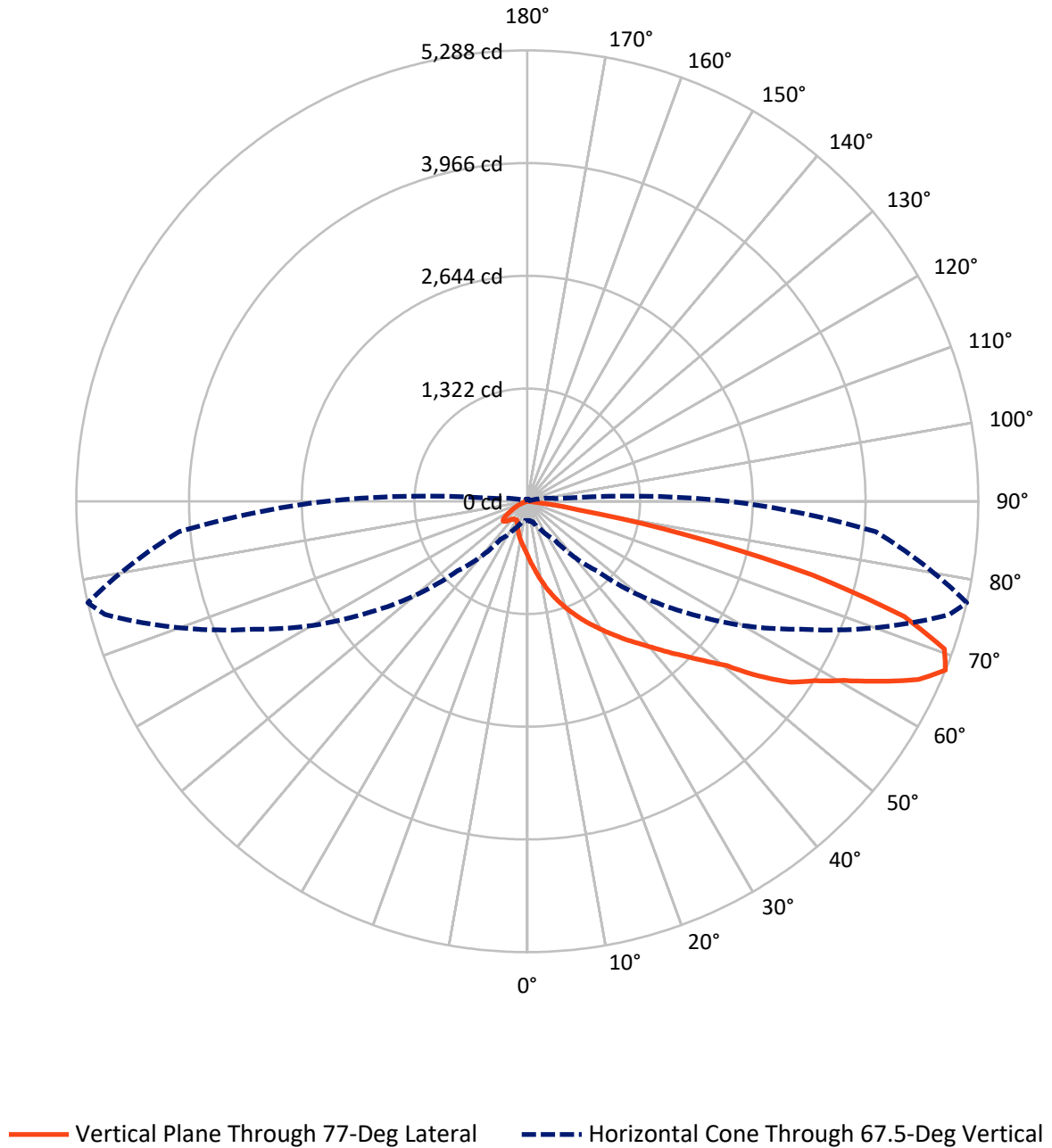
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	405.8	0.0	405.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	5110.2	0.0	5110.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	5516.0	0.0	5516.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	1.2
10°-20°	227.3	4.1
20°-30°	438.7	8.0
30°-40°	761.6	13.8
40°-50°	1105.9	20.0
50°-60°	1270.0	23.0
60°-70°	1102.6	20.0
70°-80°	519.3	9.4
80°-90°	25.7	0.5
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°	5516.0	100.0
0°-180°	5516.0	100.0

**Coefficient of Utilization**



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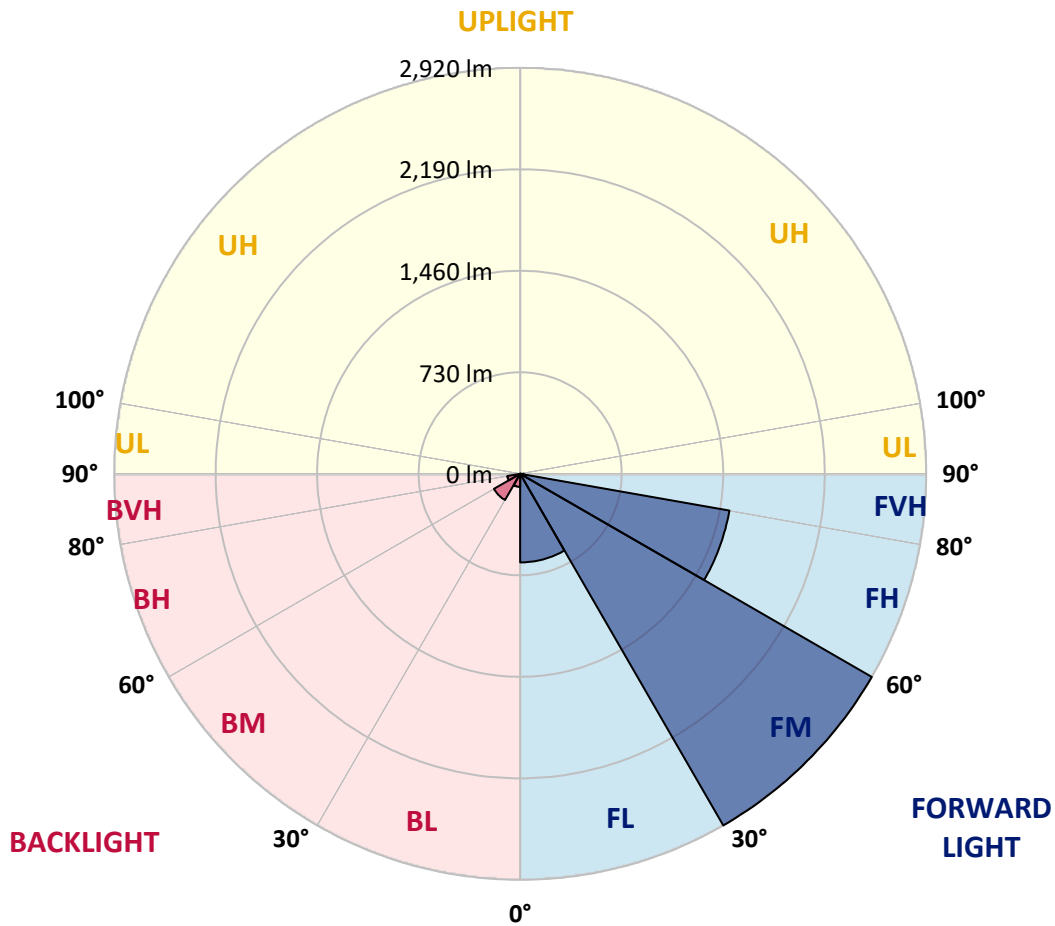
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.0	11.5			
FM (30°-60°)	2920.0	52.9			
FH (60°-80°)	1527.9	27.7			G1/1800
FVH (80°-90°)	25.2	0.5			G1/100
BL (0°-30°)	94.0	1.7	B0/110		
BM (30°-60°)	217.4	3.9	B0/220		
BH (60°-80°)	93.9	1.7	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: B0-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
2.5°	880.6	886.1	878.2	863.2	840.6	825.8	789.9	756.0	718.3	706.3
5°	1073.5	1078.3	1069.4	1052.9	1022.8	994.0	946.7	875.8	802.2	778.6
7.5°	1216.3	1219.1	1215.6	1200.6	1171.8	1139.3	1086.5	1002.6	893.3	867.3
10°	1319.1	1328.0	1327.0	1321.1	1302.0	1275.6	1219.4	1123.8	995.4	961.8
12.5°	1387.2	1397.2	1403.0	1416.0	1415.0	1398.2	1348.9	1247.8	1097.1	1057.7
15°	1407.1	1417.7	1440.0	1470.1	1496.9	1505.4	1470.8	1369.4	1209.1	1158.8
17.5°	1395.8	1412.2	1439.0	1486.6	1545.1	1583.9	1580.1	1486.9	1310.9	1253.3
20°	1420.8	1436.6	1457.5	1497.5	1565.7	1635.9	1664.0	1599.3	1411.9	1351.6
22.5°	1559.2	1556.5	1558.5	1565.0	1605.8	1675.3	1733.2	1701.3	1511.9	1450.3
25°	1778.4	1766.1	1745.2	1709.9	1699.6	1733.2	1793.5	1791.8	1617.4	1551.3
27.5°	2029.8	2027.8	1978.8	1893.8	1845.9	1832.9	1861.6	1879.8	1721.9	1651.3
30°	2270.6	2276.1	2210.0	2115.5	2027.4	1976.4	1950.4	1963.4	1828.1	1759.2
32.5°	2480.3	2486.1	2414.1	2303.5	2194.6	2132.9	2078.1	2045.9	1943.9	1868.8
35°	2657.3	2663.2	2580.6	2458.3	2342.2	2286.4	2224.4	2136.4	2060.3	1990.4
37.5°	2815.6	2813.9	2703.2	2579.9	2465.9	2421.7	2389.1	2247.7	2180.2	2112.7
40°	2909.1	2916.3	2821.8	2685.8	2575.1	2542.9	2540.9	2385.7	2318.6	2253.2
42.5°	2936.5	2949.2	2880.7	2769.0	2668.6	2633.7	2687.5	2535.1	2479.6	2415.9
45°	2887.2	2899.5	2868.3	2790.9	2732.4	2709.7	2813.5	2689.9	2651.5	2588.5
47.5°	2743.3	2758.7	2766.3	2749.8	2749.1	2772.1	2926.6	2852.9	2855.7	2791.3
50°	2464.8	2490.9	2560.1	2618.3	2708.4	2821.4	3036.5	3029.7	3085.8	3030.4
52.5°	1958.6	1995.6	2234.0	2393.2	2595.7	2812.2	3157.4	3313.3	3489.7	3408.5
55°	1573.9	1573.9	1767.8	2065.8	2375.8	2751.2	3210.2	3497.6	3764.7	3745.6
57.5°	1283.1	1298.5	1422.2	1685.6	2057.6	2606.0	3242.7	3613.3	3986.3	3972.3
60°	791.9	825.2	1058.8	1318.7	1695.5	2347.3	3222.2	3730.5	4255.2	4266.5
62.5°	446.0	458.3	562.4	948.8	1318.4	1999.7	3064.9	3795.9	4599.1	4647.1
65°	307.9	314.1	354.2	590.5	913.9	1592.1	2757.7	3755.1	4943.7	5040.7
67.5°	223.7	226.8	251.8	360.7	542.2	1154.3	2276.1	3549.6	5126.3	5288.3
70°	171.9	174.0	192.2	237.0	320.3	712.5	1653.0	3141.0	4994.1	5187.6
72.5°	139.8	141.8	155.9	175.4	212.4	421.3	1001.9	2550.8	4410.4	4619.3
75°	117.8	120.6	133.2	145.9	166.5	270.6	469.9	1776.4	3316.7	3453.7
77.5°	65.4	60.3	108.2	120.9	140.4	171.3	219.9	1045.4	1857.5	1895.6
80°	40.8	42.1	86.0	97.3	107.9	86.3	100.7	402.5	644.0	611.8
82.5°	2.4	5.5	66.1	70.2	74.0	37.0	38.0	136.7	155.2	142.5
85°	0.0	0.0	30.1	24.3	25.7	10.6	11.0	31.9	20.9	22.6
87.5°	0.0	0.0	0.0	0.7	0.0	1.0	2.1	2.7	1.0	1.4
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°
636.1	0°	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1	636.1
668.6	2.5°	644.6	620.7	572.0	524.4	485.7	449.7	424.1	399.7	387.4	386.7
711.8	5°	664.2	613.8	516.5	430.6	361.4	305.9	269.9	244.2	231.2	226.8
764.9	7.5°	691.6	615.9	467.9	348.4	266.8	219.2	198.7	190.4	187.7	184.6
824.8	10°	726.2	620.7	424.4	280.5	210.3	186.3	178.1	174.7	172.6	170.6
892.3	12.5°	764.9	625.1	381.2	232.9	185.0	172.6	166.8	162.7	160.0	157.6
961.5	15°	802.5	627.9	336.4	199.7	171.9	162.0	155.9	151.4	147.6	144.9
1029.3	17.5°	839.9	631.6	294.2	179.8	161.3	151.4	145.2	139.8	136.7	133.6
1100.5	20°	881.3	630.9	254.5	165.8	150.7	140.8	134.3	129.1	126.1	122.6
1175.9	22.5°	919.7	627.5	219.6	153.8	139.8	130.2	123.0	117.8	114.7	112.0
1253.0	25°	963.9	624.8	190.4	142.8	129.5	119.9	112.0	107.2	103.8	101.4
1330.4	27.5°	1006.3	620.7	169.2	132.9	119.5	110.3	102.8	97.3	94.2	92.5
1410.2	30°	1048.1	619.6	161.3	123.3	110.6	101.4	93.9	88.7	86.3	85.6
1497.9	32.5°	1098.5	622.4	164.8	119.9	102.4	93.2	86.0	82.2	79.8	79.8
1595.5	35°	1152.3	621.7	169.9	123.0	96.9	84.9	79.5	77.1	74.7	74.7
1703.7	37.5°	1219.7	622.7	174.0	128.1	94.9	78.1	75.0	71.9	70.6	70.6
1822.3	40°	1320.4	656.6	171.9	132.6	94.2	73.3	67.1	66.1	65.1	65.1
1956.2	42.5°	1443.8	730.3	174.7	132.9	93.9	69.9	61.7	63.7	61.3	61.0
2107.2	45°	1578.7	810.8	192.2	125.7	93.5	68.2	58.9	61.3	57.5	57.5
2282.3	47.5°	1712.6	890.6	210.0	115.4	92.5	67.8	56.5	55.1	54.1	54.5
2510.4	50°	1897.3	955.7	216.8	101.4	90.1	67.1	52.1	52.4	51.7	52.4
2832.0	52.5°	2098.3	969.4	208.6	85.6	83.2	65.1	49.0	50.4	50.0	50.7
3058.4	55°	2223.7	954.6	172.3	71.2	72.6	56.9	45.9	48.6	48.6	48.6
3279.7	57.5°	2353.2	891.9	122.3	57.9	60.3	46.6	43.2	46.9	46.6	46.2
3546.2	60°	2446.3	790.6	80.5	47.6	48.0	38.4	40.1	44.2	43.8	42.1
3820.9	62.5°	2515.9	678.5	51.7	40.4	36.7	34.6	36.7	40.1	38.7	34.9
4053.8	65°	2508.0	523.4	39.7	34.6	30.1	30.1	31.9	34.9	30.8	24.7
4098.4	67.5°	2361.7	354.2	32.9	29.1	25.3	25.0	26.4	29.1	26.4	20.9
3870.2	70°	2100.4	231.5	26.4	22.6	20.2	18.5	21.2	25.0	22.3	16.8
3294.8	72.5°	1704.8	141.1	19.9	16.4	14.7	12.0	16.8	20.6	17.8	12.3
2291.2	75°	1102.9	71.9	13.7	10.6	7.9	7.2	12.3	15.4	12.3	7.5
1016.6	77.5°	422.0	30.1	7.5	4.8	4.1	3.4	6.9	9.2	5.1	1.7
197.0	80°	81.2	12.7	3.8	2.4	2.1	1.4	1.0	0.7	0.0	0.0
34.9	82.5°	14.0	4.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
6.9	85°	4.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4	87.5°	1.7	0.0	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>
636.1
386.0
226.1
183.9
169.9
156.9
144.5
133.2
122.3
111.7
101.0
92.5
85.3
79.8
74.7
70.6
65.1
60.6
57.5
54.5
52.4
50.7
48.6
46.2
42.1
34.3
24.0
20.2
16.1
11.6
6.5
1.4
0.0
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