

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: P945705

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
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  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

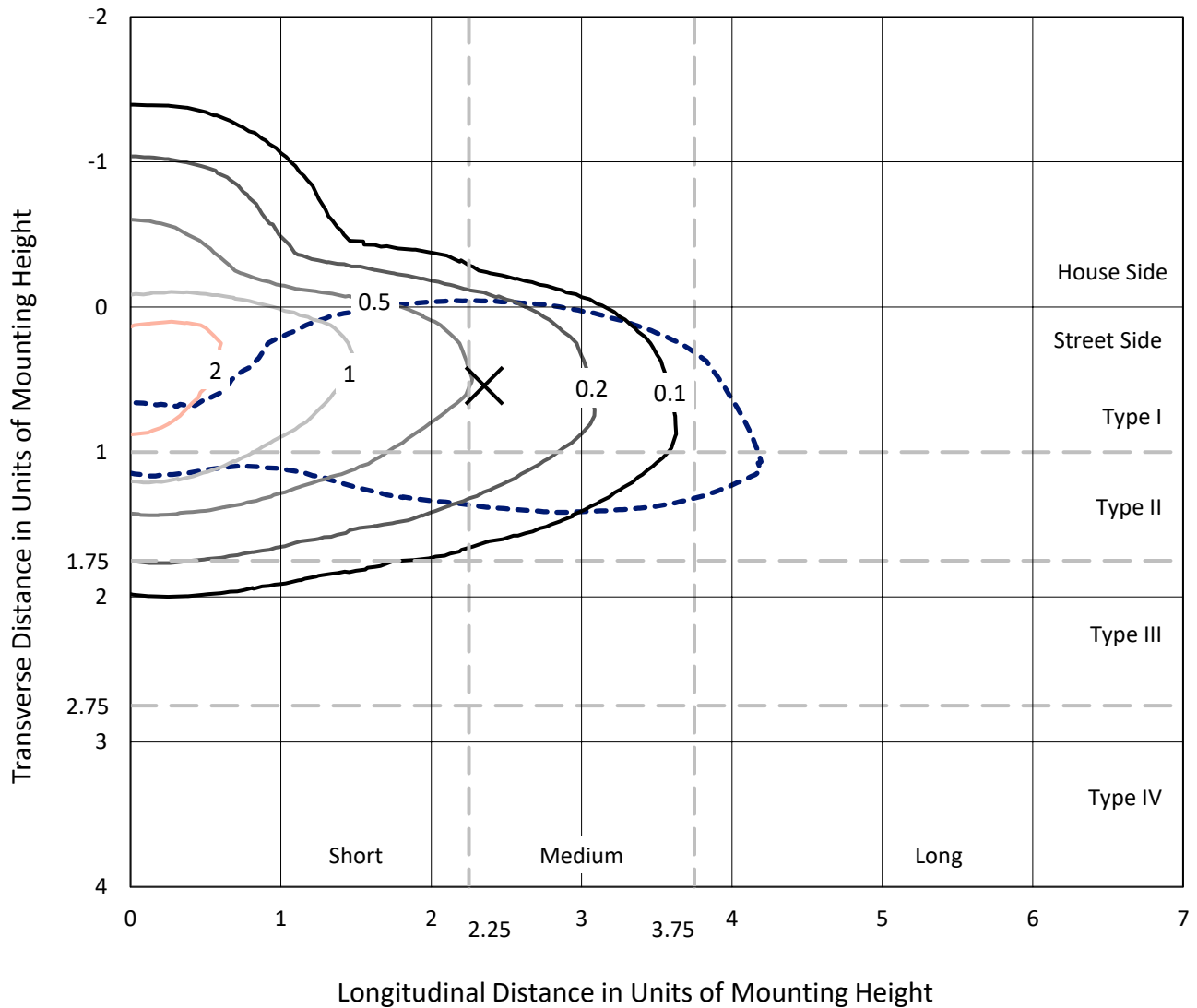
Lumens per Lamp: N/A  
Luminaire Lumens: 6635 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

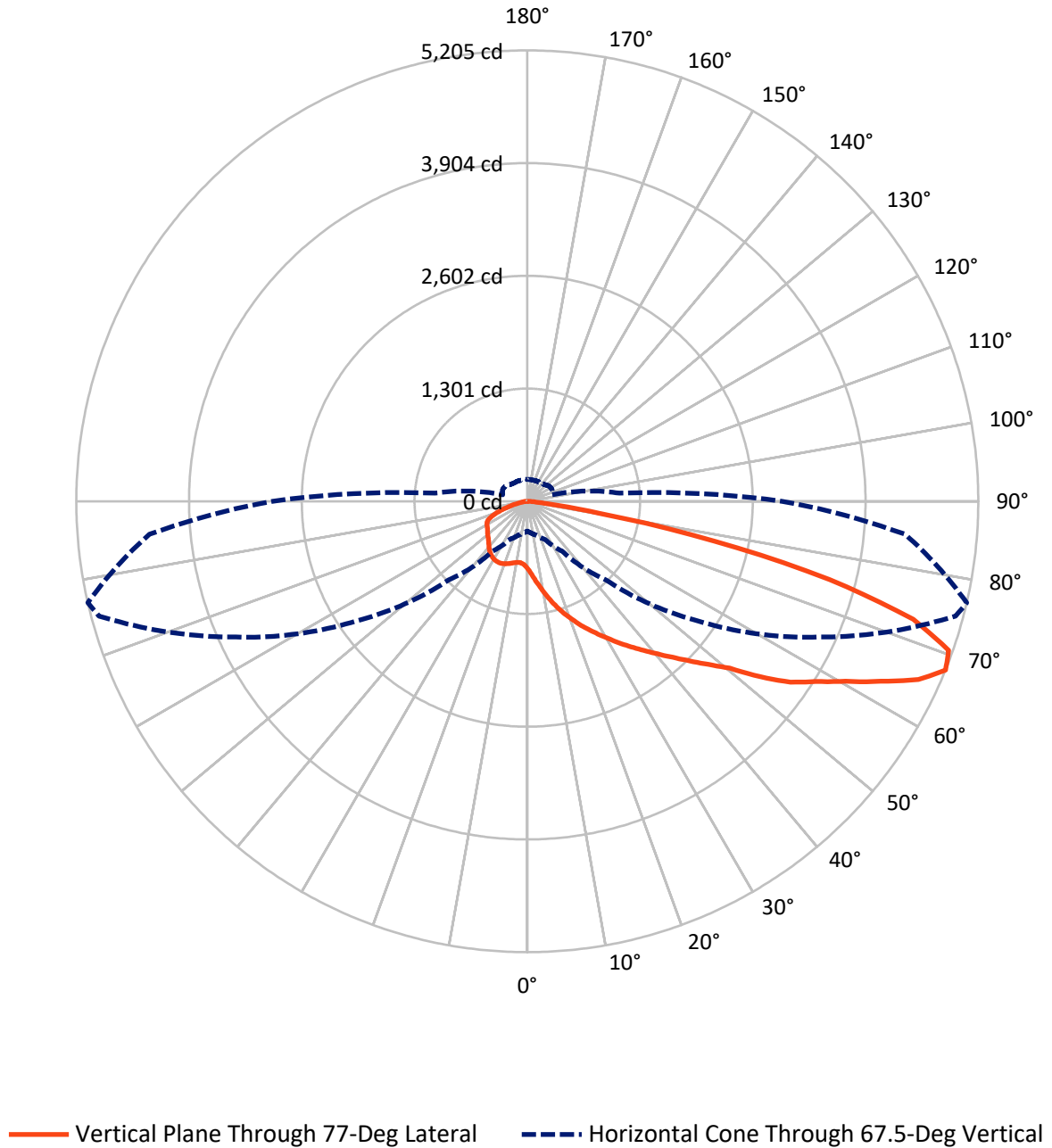
✕ Max cd  
 - - - 1/2 Max cd



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	1255.1	0.0	1255.1
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	5379.9	0.0	5379.9
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	6635.0	0.0	6635.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	1.3
10°-20°	299.8	4.5
20°-30°	566.0	8.5
30°-40°	911.8	13.7
40°-50°	1247.2	18.8
50°-60°	1406.9	21.2
60°-70°	1313.2	19.8
70°-80°	719.8	10.8
80°-90°	86.8	1.3
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°	6635.0	100.0
0°-180°	6635.0	100.0

**Coefficient of Utilization**



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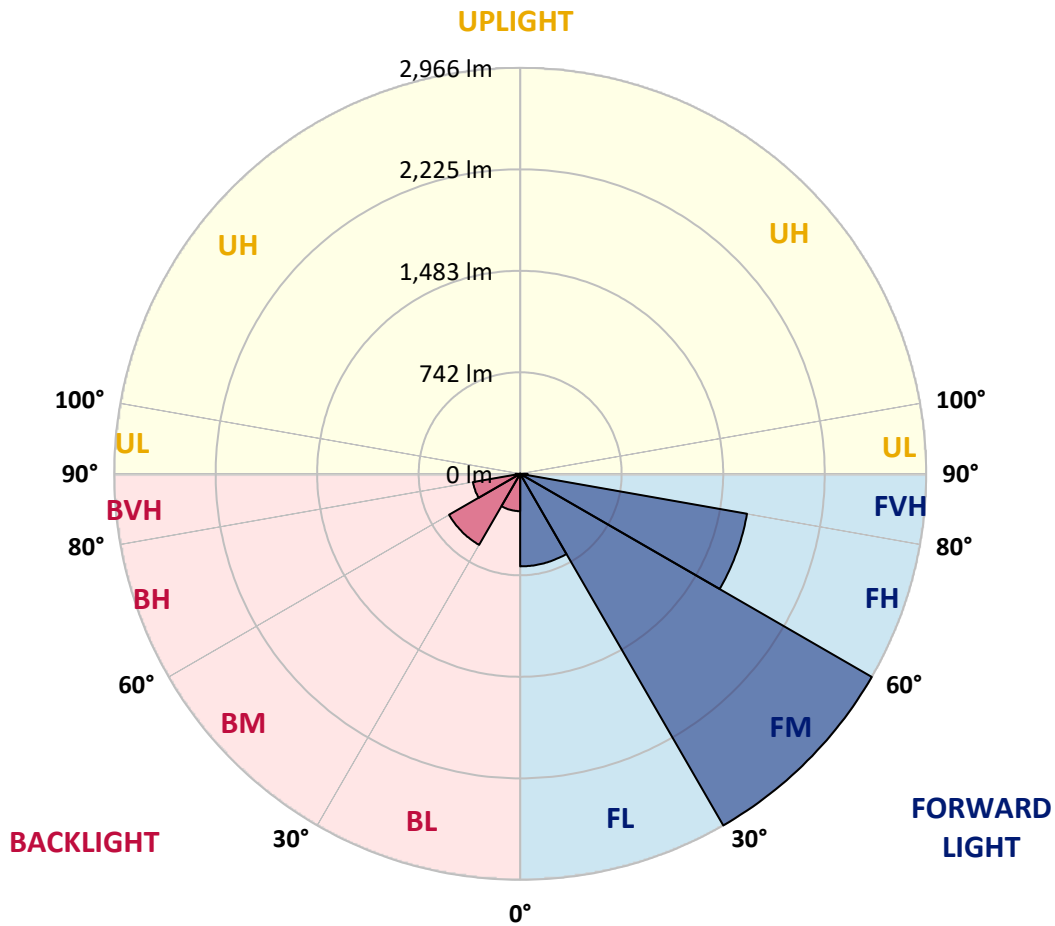
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.4	10.2			
FM (30°-60°)	2966.4	44.7			
FH (60°-80°)	1682.8	25.4			G1/1800
FVH (80°-90°)	54.3	0.8			G1/100
BL (0°-30°)	272.9	4.1	B1/500		
BM (30°-60°)	599.5	9.0	B1/1000		
BH (60°-80°)	350.2	5.3	B1/500		G1/500
BVH (80°-90°)	32.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	974.7	981.6	973.0	973.0	944.3	929.2	900.4	878.5	839.1	832.3
5°	1152.2	1160.7	1148.7	1143.6	1109.7	1078.5	1030.2	982.6	912.4	905.2
7.5°	1289.5	1300.5	1289.8	1284.4	1254.2	1219.3	1162.8	1096.3	997.3	983.3
10°	1401.5	1403.2	1399.8	1401.8	1378.2	1349.4	1291.5	1214.1	1090.5	1071.3
12.5°	1464.9	1472.7	1479.6	1491.9	1487.8	1470.0	1417.9	1325.5	1189.1	1164.5
15°	1494.6	1508.3	1523.8	1552.2	1575.1	1579.6	1539.9	1445.0	1289.5	1259.7
17.5°	1505.3	1518.3	1542.6	1583.7	1633.0	1666.2	1648.4	1561.1	1388.8	1354.6
20°	1559.0	1562.8	1577.5	1616.6	1670.0	1725.1	1738.5	1672.7	1487.1	1448.4
22.5°	1674.1	1666.6	1670.7	1688.5	1726.9	1780.3	1810.8	1771.4	1588.2	1543.6
25°	1864.2	1842.3	1820.4	1799.8	1819.3	1849.5	1884.1	1870.0	1694.0	1637.5
27.5°	2104.3	2077.6	2029.3	1961.8	1938.2	1948.8	1964.2	1961.5	1791.9	1734.7
30°	2340.6	2309.4	2251.9	2154.3	2092.0	2063.9	2052.2	2044.4	1898.5	1837.5
32.5°	2529.3	2504.7	2448.2	2338.9	2248.5	2200.5	2161.8	2133.7	2009.8	1948.8
35°	2694.4	2671.5	2606.7	2487.5	2389.2	2338.2	2287.5	2227.6	2125.5	2063.9
37.5°	2845.1	2822.2	2733.5	2609.5	2510.5	2475.2	2430.0	2328.3	2241.6	2183.4
40°	2940.3	2935.2	2852.3	2711.9	2609.1	2591.7	2576.6	2445.1	2370.4	2316.3
42.5°	2964.6	2975.9	2910.2	2794.8	2696.8	2682.8	2718.0	2577.3	2514.9	2463.2
45°	2906.1	2938.6	2895.5	2817.0	2759.1	2751.6	2843.4	2721.8	2674.9	2627.6
47.5°	2757.8	2812.9	2795.1	2784.1	2775.9	2808.5	2953.7	2875.2	2856.1	2815.0
50°	2458.4	2562.9	2594.1	2663.2	2742.7	2852.6	3054.0	3042.7	3067.7	3026.3
52.5°	1940.9	2084.8	2265.6	2438.9	2640.6	2837.9	3164.3	3283.2	3388.6	3366.0
55°	1602.2	1666.9	1806.0	2123.8	2442.7	2775.9	3214.0	3477.4	3707.2	3687.0
57.5°	1341.9	1399.8	1485.4	1750.8	2143.3	2635.2	3244.8	3595.9	3925.3	3923.3
60°	1062.8	1124.1	1211.7	1399.8	1793.6	2392.0	3237.9	3730.8	4203.8	4220.9
62.5°	747.7	815.1	912.4	1087.8	1436.4	2076.9	3098.2	3828.4	4531.6	4578.1
65°	491.5	536.0	609.3	760.7	1070.3	1671.7	2831.4	3841.1	4882.3	4961.0
67.5°	344.6	361.7	404.8	487.0	705.5	1282.0	2406.4	3709.9	5116.2	5204.9
70°	268.9	277.4	299.3	332.2	443.2	862.1	1844.0	3368.8	5066.2	5158.7
72.5°	232.2	240.4	248.7	252.8	297.3	532.2	1249.1	2816.7	4595.3	4657.9
75°	210.6	212.7	219.5	218.2	226.7	345.2	721.0	2052.2	3625.7	3604.1
77.5°	177.1	179.8	191.1	189.4	201.4	236.0	374.3	1324.4	2350.5	2204.0
80°	150.0	151.4	163.7	161.7	175.0	170.9	191.1	675.1	997.0	844.6
82.5°	52.1	64.4	125.0	128.8	133.6	103.4	110.3	275.4	304.5	233.2
85°	25.3	27.1	63.7	90.4	90.1	52.1	53.8	98.3	95.9	75.3
87.5°	4.1	5.1	7.5	35.3	28.1	13.7	18.5	19.2	19.9	17.1
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°
778.5	0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
806.2	2.5°	787.1	769.9	734.0	700.7	674.7	649.7	635.7	623.7	616.8	615.5
843.9	5°	808.3	773.0	707.6	652.5	616.5	589.8	575.7	566.8	562.4	559.6
894.6	7.5°	838.8	787.1	693.9	631.2	593.5	574.4	567.2	565.8	565.5	565.8
955.9	10°	880.9	810.0	692.5	626.1	594.6	584.0	583.6	584.0	585.3	585.7
1022.7	12.5°	926.4	833.6	698.0	630.5	607.6	601.8	600.7	600.4	601.4	602.1
1090.2	15°	976.1	864.8	707.3	640.1	622.0	615.8	614.8	612.7	612.4	612.0
1161.1	17.5°	1027.1	895.6	717.5	650.4	631.2	622.7	618.9	614.1	610.3	609.3
1234.4	20°	1078.9	926.1	724.7	655.5	631.9	619.9	612.4	604.2	597.7	593.9
1308.3	22.5°	1134.0	958.0	729.2	654.2	625.7	609.3	595.6	586.0	576.1	569.6
1383.0	25°	1187.8	985.7	728.8	647.0	613.8	592.9	575.4	563.1	549.4	542.5
1460.1	27.5°	1239.5	1010.7	720.3	634.3	596.6	573.3	552.4	537.7	524.4	517.9
1537.8	30°	1292.9	1031.6	706.9	615.8	576.4	550.7	527.8	515.1	503.1	497.0
1620.0	32.5°	1346.0	1050.8	688.1	592.9	553.1	528.5	505.9	494.2	487.0	487.0
1708.4	35°	1402.2	1064.1	663.1	566.1	528.5	504.8	487.0	480.2	479.5	475.4
1801.9	37.5°	1461.4	1072.7	632.6	538.7	504.2	481.9	476.4	468.2	461.3	452.4
1904.6	40°	1523.8	1081.3	595.9	510.3	478.5	466.1	463.7	452.8	433.3	411.3
2021.1	42.5°	1599.5	1087.1	557.9	481.9	451.4	447.3	450.7	431.9	400.7	384.3
2161.5	45°	1687.1	1096.7	523.0	453.8	423.7	423.7	438.1	413.4	387.7	377.4
2321.8	47.5°	1800.8	1118.9	490.5	423.0	398.0	404.8	410.0	391.1	376.7	364.1
2517.0	50°	1965.2	1172.4	456.9	391.8	378.5	392.2	385.0	374.0	357.2	346.9
2827.3	52.5°	2169.4	1203.9	427.1	363.7	361.7	375.4	365.1	354.8	342.2	328.5
3062.6	55°	2308.4	1209.7	402.1	343.2	350.4	349.0	345.2	336.0	329.1	311.0
3294.8	57.5°	2463.9	1221.3	381.5	330.9	343.2	328.1	326.7	318.9	310.0	297.6
3578.0	60°	2649.9	1239.5	363.7	326.1	337.0	314.4	307.6	304.5	295.6	289.4
3918.8	62.5°	2852.6	1255.9	345.6	326.7	329.8	301.1	290.8	289.8	284.3	282.2
4238.7	65°	2991.0	1211.1	323.0	326.1	318.5	287.4	274.3	274.0	269.5	268.9
4377.4	67.5°	2942.7	1068.9	292.5	316.5	306.9	273.7	259.3	257.9	252.1	252.4
4232.6	70°	2700.9	866.2	250.4	292.8	292.5	261.3	243.5	239.1	231.2	232.6
3680.1	72.5°	2247.5	641.8	193.9	253.4	269.5	250.0	225.4	218.2	208.2	209.6
2716.7	75°	1623.1	436.3	141.1	192.8	234.6	236.7	207.6	195.2	183.2	185.3
1512.1	77.5°	830.6	247.3	103.8	132.9	184.3	215.1	191.5	175.0	172.3	191.5
436.0	80°	270.9	124.0	71.9	93.2	120.9	176.0	167.8	149.0	148.3	152.8
91.4	82.5°	80.8	52.4	46.2	61.3	66.8	134.9	144.9	112.7	96.9	102.1
30.5	85°	27.7	25.3	26.4	30.5	31.9	79.1	101.4	74.7	70.6	77.7
6.8	87.5°	6.5	8.9	7.5	6.8	6.8	19.2	39.4	31.2	43.2	28.8
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>
778.5
615.5
559.3
566.8
586.0
602.4
611.7
610.3
595.3
569.9
542.5
517.5
496.6
487.4
474.4
451.1
408.3
384.6
379.1
363.7
345.9
325.7
311.3
293.5
291.1
282.2
268.5
252.4
233.9
209.3
186.0
188.7
131.2
105.5
76.7
27.7
0.0

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