

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: P945746

Luminaire Tested: **GALN-SB1C-835-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945746  
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-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

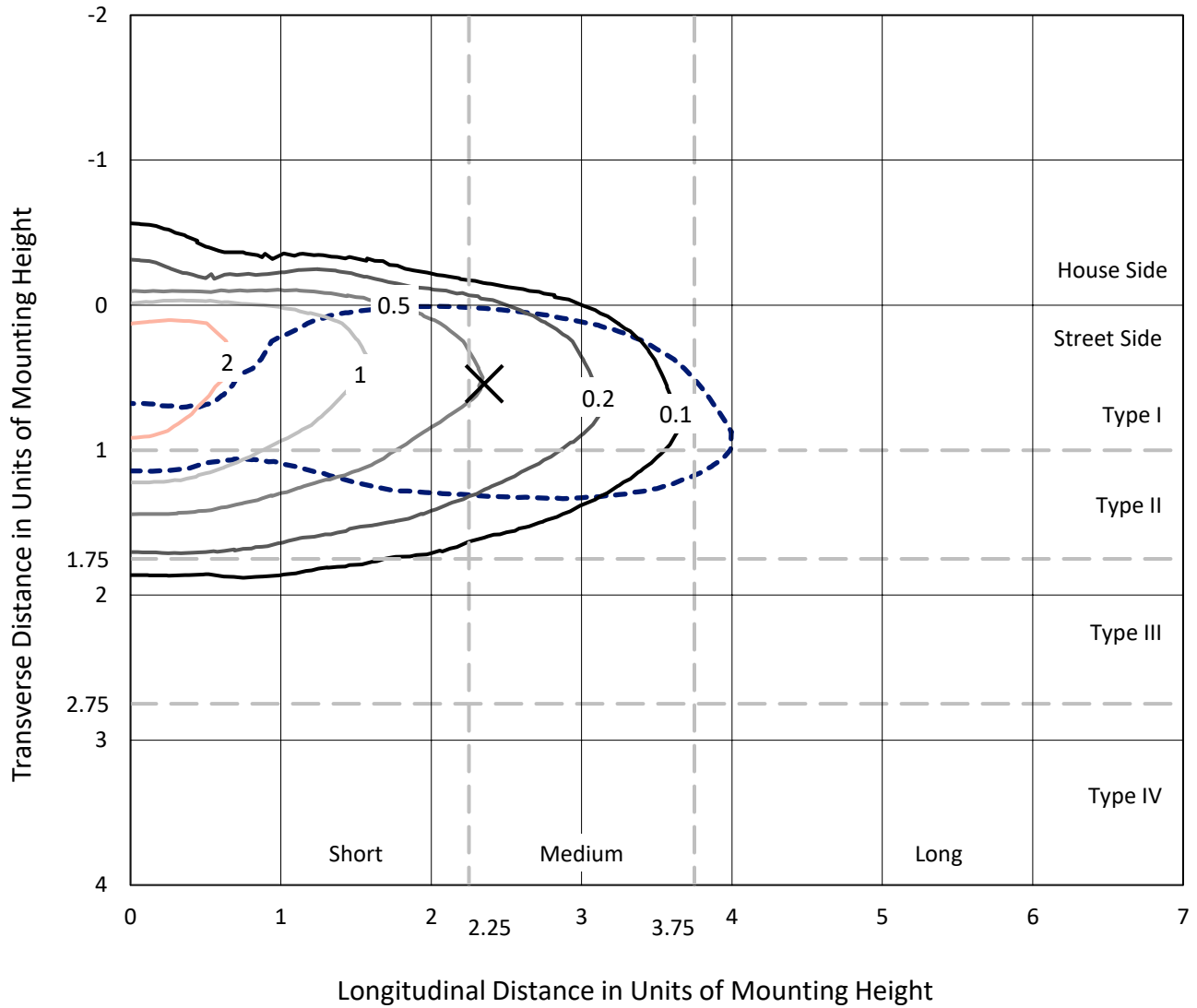
Lumens per Lamp: N/A  
Luminaire Lumens: 5883 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

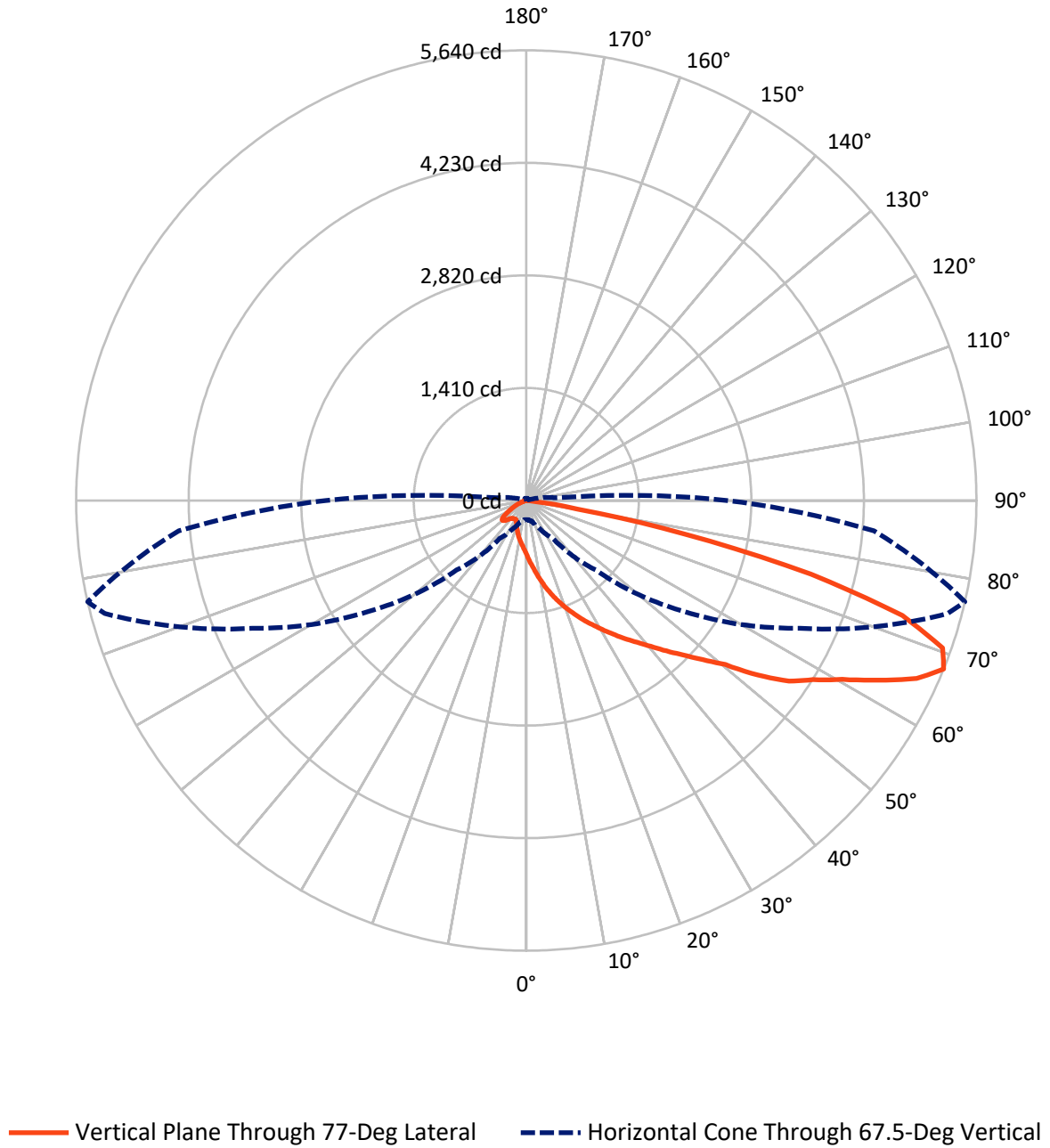
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	432.8	0.0	432.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	5450.2	0.0	5450.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	5883.0	0.0	5883.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	1.2
10°-20°	242.5	4.1
20°-30°	467.9	8.0
30°-40°	812.3	13.8
40°-50°	1179.4	20.0
50°-60°	1354.4	23.0
60°-70°	1175.9	20.0
70°-80°	553.9	9.4
80°-90°	27.4	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°	5883.0	100.0
0°-180°	5883.0	100.0

**Coefficient of Utilization**



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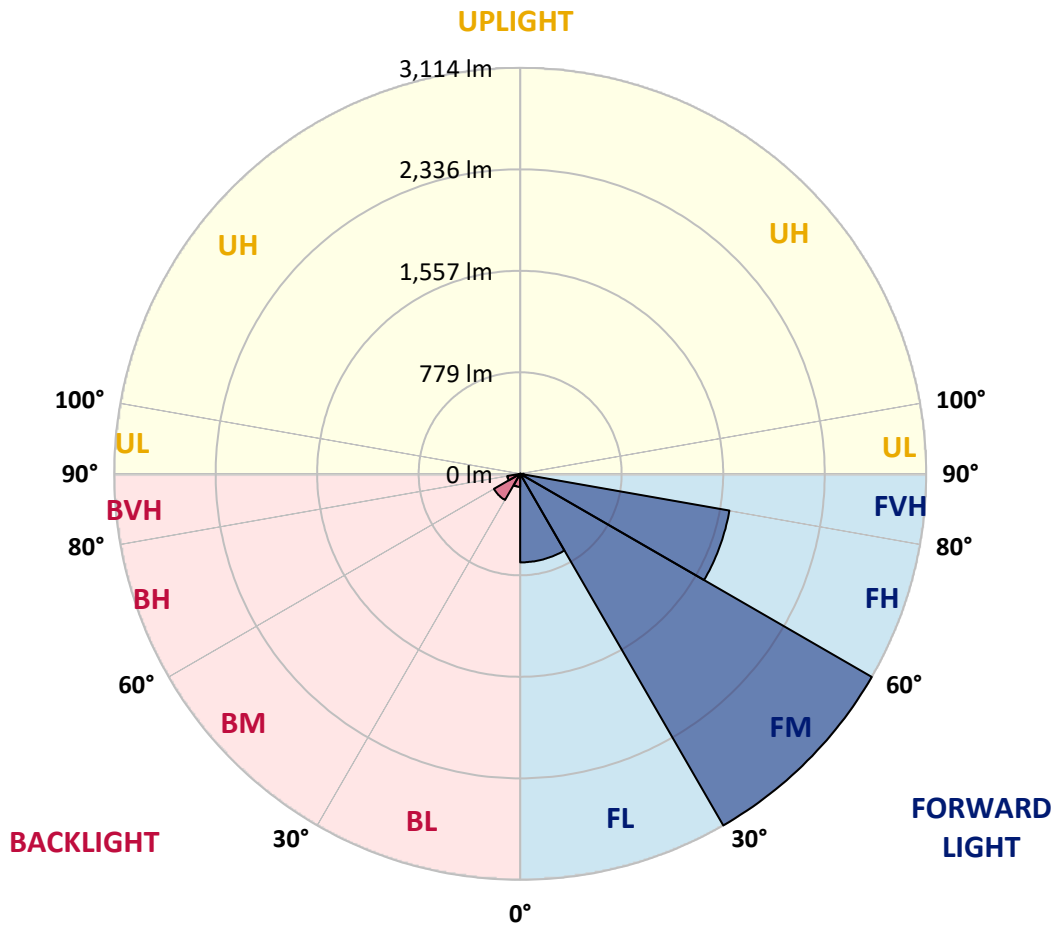
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.4	11.5			
FM (30°-60°)	3114.3	52.9			
FH (60°-80°)	1629.6	27.7			G1/1800
FVH (80°-90°)	26.9	0.5			G1/100
BL (0°-30°)	100.2	1.7	B0/110		
BM (30°-60°)	231.9	3.9	B1/1000		
BH (60°-80°)	100.2	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: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
2.5°	939.2	945.1	936.7	920.6	896.5	880.8	842.4	806.3	766.1	753.3
5°	1144.9	1150.0	1140.5	1123.0	1090.8	1060.2	1009.7	934.1	855.6	830.4
7.5°	1297.2	1300.2	1296.5	1280.4	1249.8	1215.0	1158.8	1069.3	952.8	925.0
10°	1406.8	1416.3	1415.2	1409.0	1388.6	1360.4	1300.5	1198.6	1061.6	1025.8
12.5°	1479.5	1490.1	1496.3	1510.2	1509.1	1491.2	1438.6	1330.9	1170.1	1128.1
15°	1500.7	1512.1	1535.8	1567.9	1596.4	1605.6	1568.7	1460.5	1289.6	1235.9
17.5°	1488.7	1506.2	1534.7	1585.5	1648.0	1689.2	1685.2	1585.8	1398.1	1336.7
20°	1515.3	1532.1	1554.4	1597.2	1669.9	1744.8	1774.7	1705.7	1505.8	1441.5
22.5°	1662.9	1660.0	1662.2	1669.1	1712.6	1786.8	1848.5	1814.5	1612.5	1546.8
25°	1896.7	1883.6	1861.3	1823.7	1812.7	1848.5	1912.8	1911.0	1725.0	1654.5
27.5°	2164.9	2162.7	2110.4	2019.8	1968.7	1954.8	1985.5	2004.9	1836.5	1761.2
30°	2421.7	2427.5	2357.0	2256.2	2162.3	2107.9	2080.1	2094.0	1949.7	1876.3
32.5°	2645.3	2651.5	2574.8	2456.8	2340.6	2274.8	2216.4	2182.0	2073.2	1993.2
35°	2834.1	2840.4	2752.3	2621.9	2498.0	2438.5	2372.4	2278.5	2197.4	2122.9
37.5°	3002.9	3001.1	2883.1	2751.6	2629.9	2582.8	2548.1	2397.2	2325.3	2253.3
40°	3102.6	3110.3	3009.5	2864.5	2746.5	2712.1	2709.9	2544.4	2472.8	2403.1
42.5°	3131.9	3145.4	3072.3	2953.2	2846.2	2808.9	2866.3	2703.7	2644.5	2576.6
45°	3079.3	3092.4	3059.2	2976.6	2914.1	2890.0	3000.7	2868.8	2827.9	2760.7
47.5°	2925.8	2942.3	2950.3	2932.8	2932.0	2956.5	3121.3	3042.7	3045.7	2977.0
50°	2628.8	2656.6	2730.4	2792.5	2888.6	3009.1	3238.5	3231.2	3291.2	3232.0
52.5°	2088.9	2128.3	2382.6	2552.5	2768.4	2999.3	3367.5	3533.7	3721.9	3635.3
55°	1678.6	1678.6	1885.4	2203.2	2533.8	2934.2	3423.8	3730.3	4015.2	3994.8
57.5°	1368.5	1384.9	1516.8	1797.7	2194.5	2779.3	3458.5	3853.7	4251.6	4236.6
60°	844.6	880.1	1129.2	1406.5	1808.3	2503.5	3436.6	3978.7	4538.4	4550.4
62.5°	475.6	488.8	599.9	1011.9	1406.1	2132.7	3268.9	4048.5	4905.1	4956.3
65°	328.4	335.0	377.7	629.8	974.7	1698.0	2941.2	4005.0	5272.6	5376.0
67.5°	238.6	241.8	268.5	384.7	578.3	1231.1	2427.5	3785.8	5467.4	5640.2
70°	183.4	185.6	204.9	252.8	341.6	759.9	1763.0	3350.0	5326.3	5532.7
72.5°	149.0	151.2	166.2	187.0	226.5	449.3	1068.6	2720.5	4703.8	4926.7
75°	125.7	128.6	142.1	155.6	177.5	288.6	501.2	1894.5	3537.4	3683.5
77.5°	69.8	64.3	115.4	129.0	149.8	182.7	234.5	1115.0	1981.1	2021.7
80°	43.5	44.9	91.7	103.8	115.1	92.1	107.4	429.2	686.8	652.5
82.5°	2.6	5.8	70.5	74.9	78.9	39.5	40.6	145.8	165.5	152.0
85°	0.0	0.0	32.1	25.9	27.4	11.3	11.7	34.0	22.3	24.1
87.5°	0.0	0.0	0.0	0.7	0.0	1.1	2.2	2.9	1.1	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°
678.4	0°	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
713.1	2.5°	687.5	662.0	610.1	559.3	518.0	479.7	452.3	426.3	413.2	412.4
759.1	5°	708.4	654.7	550.9	459.2	385.4	326.2	287.9	260.5	246.6	241.8
815.8	7.5°	737.6	656.8	499.0	371.5	284.6	233.8	211.9	203.1	200.2	196.9
879.7	10°	774.5	662.0	452.6	299.2	224.3	198.7	190.0	186.3	184.1	181.9
951.7	12.5°	815.8	666.7	406.6	248.4	197.3	184.1	177.9	173.5	170.6	168.0
1025.4	15°	855.9	669.6	358.7	213.0	183.4	172.8	166.2	161.5	157.5	154.5
1097.8	17.5°	895.8	673.6	313.8	191.8	172.1	161.5	154.9	149.0	145.8	142.5
1173.8	20°	940.0	672.9	271.4	176.8	160.7	150.1	143.2	137.7	134.4	130.8
1254.1	22.5°	980.9	669.3	234.2	164.0	149.0	138.8	131.1	125.7	122.4	119.5
1336.3	25°	1028.0	666.3	203.1	152.3	138.1	127.9	119.5	114.3	110.7	108.1
1418.9	27.5°	1073.3	662.0	180.5	141.7	127.5	117.6	109.6	103.8	100.5	98.6
1504.0	30°	1117.9	660.9	172.1	131.5	118.0	108.1	100.1	94.6	92.1	91.3
1597.5	32.5°	1171.6	663.8	175.7	127.9	109.2	99.4	91.7	87.7	85.1	85.1
1701.7	35°	1228.9	663.1	181.2	131.1	103.4	90.6	84.8	82.2	79.6	79.6
1817.1	37.5°	1300.9	664.1	185.6	136.6	101.2	83.3	80.0	76.7	75.3	75.3
1943.5	40°	1408.3	700.3	183.4	141.4	100.5	78.2	71.6	70.5	69.4	69.4
2086.3	42.5°	1539.8	778.9	186.3	141.7	100.1	74.5	65.8	67.9	65.4	65.0
2247.4	45°	1683.8	864.7	204.9	134.1	99.7	72.7	62.8	65.4	61.4	61.4
2434.1	47.5°	1826.6	949.8	223.9	123.1	98.6	72.3	60.3	58.8	57.7	58.1
2677.4	50°	2023.5	1019.2	231.2	108.1	96.1	71.6	55.5	55.9	55.2	55.9
3020.5	52.5°	2237.9	1033.9	222.5	91.3	88.8	69.4	52.2	53.7	53.3	54.1
3261.9	55°	2371.6	1018.1	183.8	76.0	77.4	60.6	49.0	51.9	51.9	51.9
3497.9	57.5°	2509.7	951.3	130.4	61.7	64.3	49.7	46.0	50.0	49.7	49.3
3782.1	60°	2609.1	843.2	85.8	50.8	51.1	40.9	42.7	47.1	46.8	44.9
4075.1	62.5°	2683.3	723.7	55.2	43.1	39.1	36.9	39.1	42.7	41.3	37.3
4323.5	65°	2674.9	558.2	42.4	36.9	32.1	32.1	34.0	37.3	32.9	26.3
4371.0	67.5°	2518.9	377.7	35.1	31.1	27.0	26.7	28.1	31.1	28.1	22.3
4127.7	70°	2240.1	247.0	28.1	24.1	21.6	19.7	22.6	26.7	23.7	17.9
3514.0	72.5°	1818.2	150.5	21.2	17.5	15.7	12.8	17.9	21.9	19.0	13.2
2443.6	75°	1176.3	76.7	14.6	11.3	8.4	7.7	13.2	16.4	13.2	8.0
1084.3	77.5°	450.1	32.1	8.0	5.1	4.4	3.7	7.3	9.9	5.5	1.8
210.1	80°	86.6	13.5	4.0	2.6	2.2	1.5	1.1	0.7	0.0	0.0
37.3	82.5°	15.0	4.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
7.3	85°	5.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	1.8	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>
678.4
411.7
241.1
196.2
181.2
167.3
154.2
142.1
130.4
119.1
107.8
98.6
91.0
85.1
79.6
75.3
69.4
64.7
61.4
58.1
55.9
54.1
51.9
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