

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: P945788

Luminaire Tested: **GALN-SB1C-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945788  
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-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

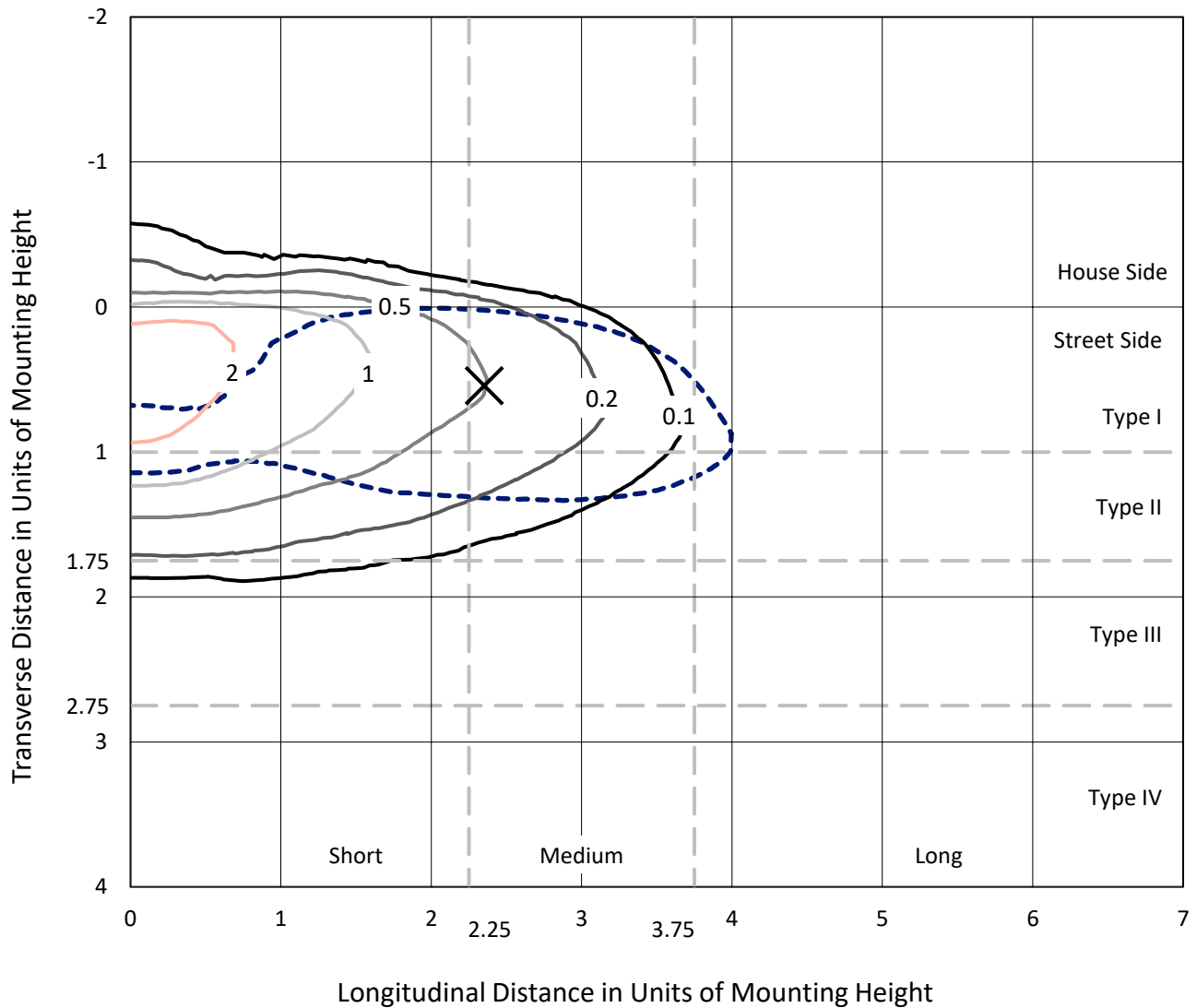
Lumens per Lamp: N/A  
Luminaire Lumens: 6067 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

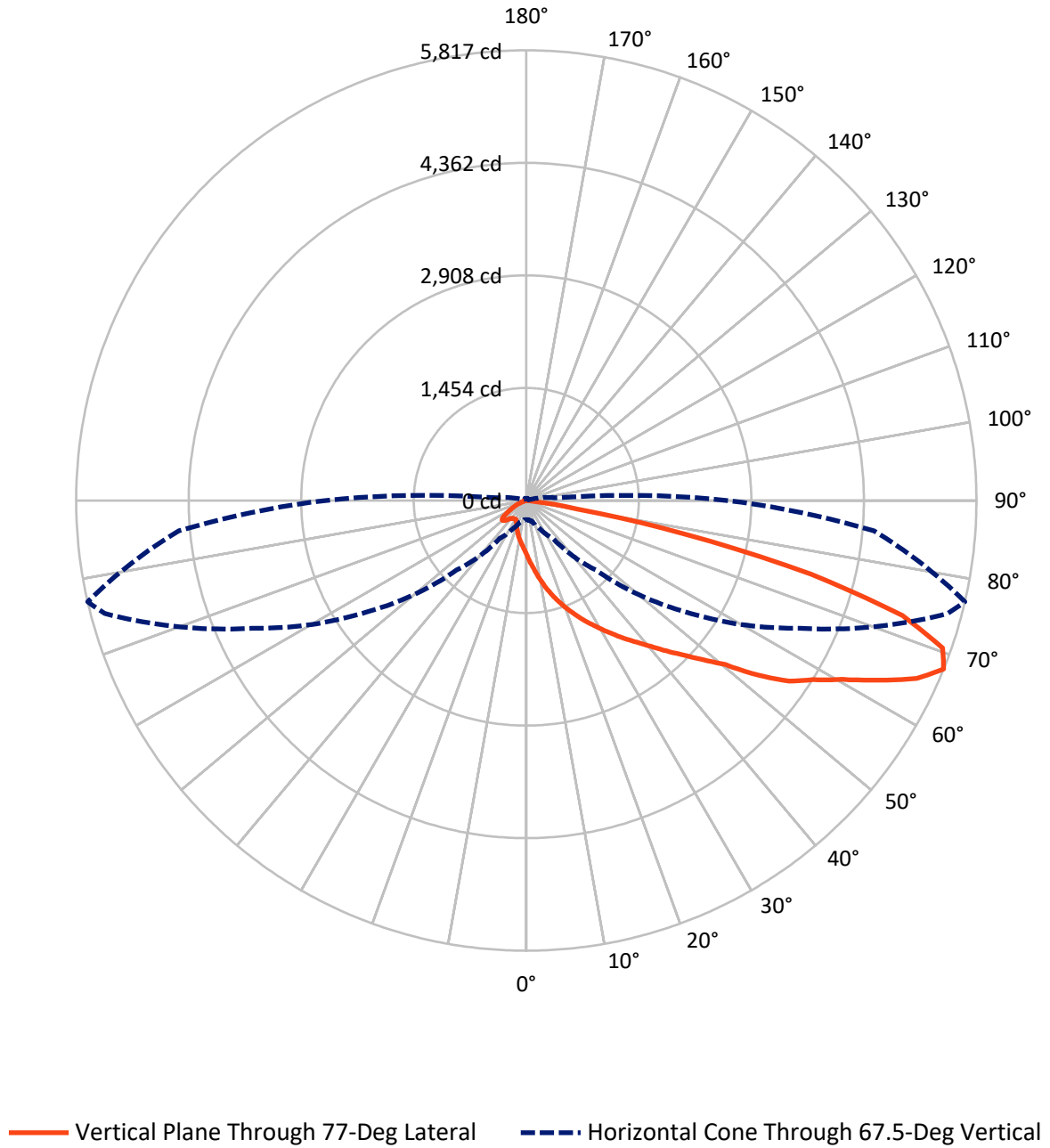
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	446.4	0.0	446.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	5620.7	0.0	5620.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	6067.0	0.0	6067.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	1.2
10°-20°	250.1	4.1
20°-30°	482.5	8.0
30°-40°	837.7	13.8
40°-50°	1216.3	20.0
50°-60°	1396.8	23.0
60°-70°	1212.7	20.0
70°-80°	571.2	9.4
80°-90°	28.2	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°	6067.0	100.0
0°-180°	6067.0	100.0

**Coefficient of Utilization**



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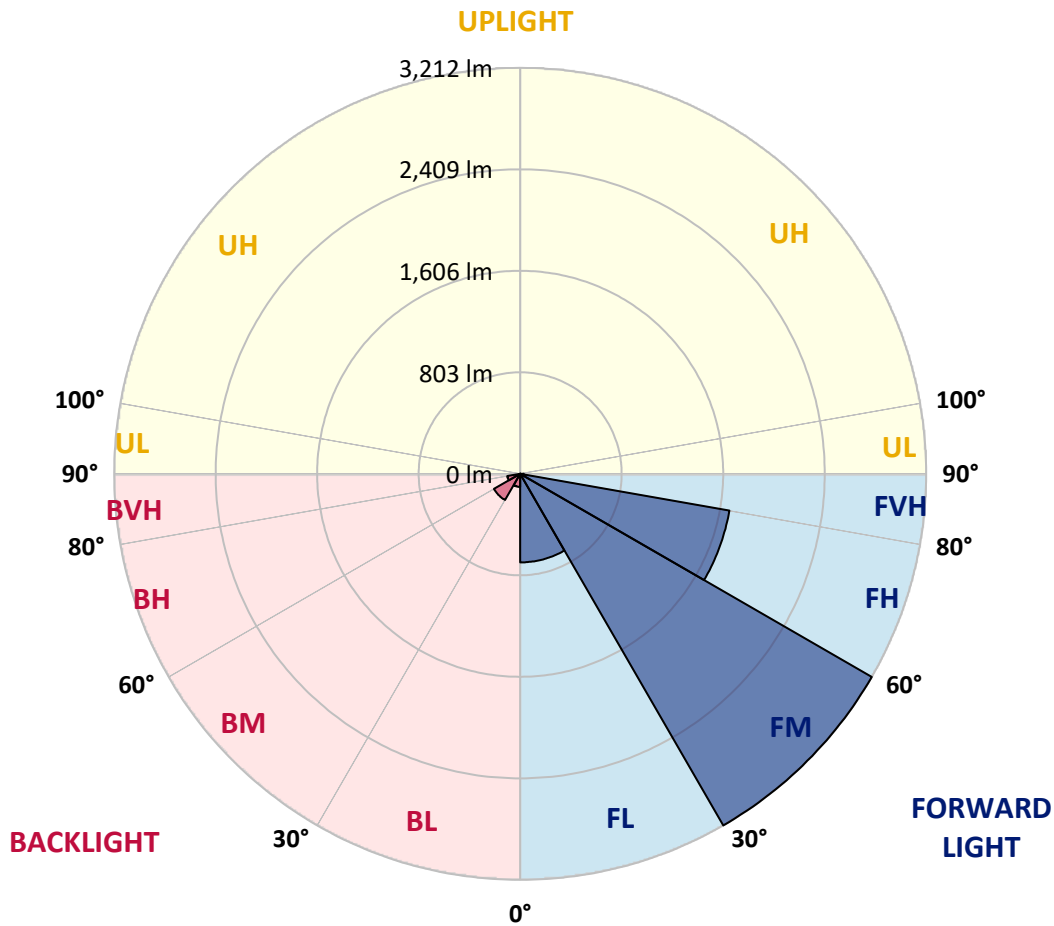
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.7	11.5			
FM (30°-60°)	3211.7	52.9			
FH (60°-80°)	1680.5	27.7			G1/1800
FVH (80°-90°)	27.7	0.5			G1/100
BL (0°-30°)	103.3	1.7	B0/110		
BM (30°-60°)	239.2	3.9	B1/1000		
BH (60°-80°)	103.3	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°	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6
2.5°	968.6	974.6	966.0	949.4	924.5	908.3	868.8	831.5	790.0	776.8
5°	1180.7	1186.0	1176.2	1158.1	1125.0	1093.3	1041.3	963.3	882.3	856.3
7.5°	1337.8	1340.8	1337.1	1320.5	1288.8	1253.1	1195.0	1102.7	982.5	953.9
10°	1450.8	1460.6	1459.5	1453.1	1432.0	1403.0	1341.2	1236.1	1094.8	1057.9
12.5°	1525.8	1536.7	1543.1	1557.5	1556.3	1537.9	1483.6	1372.5	1206.7	1163.4
15°	1547.7	1559.3	1583.8	1617.0	1646.4	1655.8	1617.7	1506.2	1329.9	1274.5
17.5°	1535.2	1553.3	1582.7	1635.1	1699.5	1742.1	1737.9	1635.4	1441.8	1378.5
20°	1562.7	1580.1	1603.0	1647.1	1722.1	1799.3	1830.2	1759.0	1552.9	1486.6
22.5°	1714.9	1711.9	1714.2	1721.3	1766.2	1842.7	1906.3	1871.3	1662.9	1595.1
25°	1956.1	1942.5	1919.5	1880.7	1869.4	1906.3	1972.6	1970.7	1779.0	1706.3
27.5°	2232.6	2230.3	2176.5	2083.0	2030.3	2016.0	2047.6	2067.6	1893.9	1816.3
30°	2497.4	2503.5	2430.8	2326.8	2229.9	2173.8	2145.2	2159.5	2010.7	1935.0
32.5°	2728.0	2734.4	2655.3	2533.6	2413.8	2346.0	2285.7	2250.3	2138.0	2055.5
35°	2922.8	2929.2	2838.4	2703.9	2576.2	2514.8	2446.6	2349.8	2266.1	2189.3
37.5°	3096.8	3095.0	2973.3	2837.6	2712.2	2663.6	2627.8	2472.2	2398.0	2323.8
40°	3199.7	3207.6	3103.6	2954.1	2832.4	2797.0	2794.7	2624.0	2550.2	2478.2
42.5°	3229.8	3243.8	3168.4	3045.6	2935.2	2896.8	2955.9	2788.3	2727.3	2657.2
45°	3175.6	3189.1	3154.9	3069.7	3005.3	2980.4	3094.6	2958.6	2916.4	2847.1
47.5°	3017.3	3034.3	3042.6	3024.5	3023.8	3049.0	3218.9	3137.9	3140.9	3070.1
50°	2711.1	2739.7	2815.8	2879.8	2978.9	3103.2	3339.8	3332.3	3394.1	3333.1
52.5°	2154.2	2194.9	2457.1	2632.3	2855.0	3093.1	3472.8	3644.2	3838.3	3749.0
55°	1731.1	1731.1	1944.4	2272.1	2613.1	3026.0	3530.8	3846.9	4140.8	4119.7
57.5°	1411.3	1428.2	1564.2	1854.0	2263.1	2866.3	3566.6	3974.3	4384.6	4369.1
60°	871.0	907.6	1164.5	1450.5	1864.9	2581.8	3544.0	4103.1	4680.3	4692.7
62.5°	490.5	504.1	618.6	1043.6	1450.1	2199.4	3371.1	4175.1	5058.5	5111.3
65°	338.7	345.5	389.6	649.5	1005.2	1751.1	3033.2	4130.2	5437.6	5544.2
67.5°	246.0	249.4	276.9	396.7	596.4	1269.6	2503.5	3904.2	5638.4	5816.6
70°	189.1	191.4	211.4	260.7	352.3	783.6	1818.2	3454.7	5492.9	5705.8
72.5°	153.7	156.0	171.4	192.9	233.6	463.4	1102.0	2805.6	4851.0	5080.8
75°	129.6	132.6	146.6	160.5	183.1	297.6	516.9	1953.8	3648.0	3798.7
77.5°	72.0	66.3	119.1	133.0	154.5	188.4	241.9	1149.8	2043.1	2084.9
80°	44.8	46.3	94.6	107.0	118.7	94.9	110.8	442.7	708.3	672.9
82.5°	2.6	6.0	72.7	77.2	81.4	40.7	41.8	150.3	170.7	156.7
85°	0.0	0.0	33.2	26.7	28.3	11.7	12.1	35.0	23.0	24.9
87.5°	0.0	0.0	0.0	0.8	0.0	1.1	2.3	3.0	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°
699.6	0°	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6
735.4	2.5°	709.0	682.7	629.2	576.8	534.2	494.7	466.4	439.7	426.1	425.3
782.9	5°	730.5	675.1	568.1	473.6	397.5	336.4	296.9	268.6	254.3	249.4
841.3	7.5°	760.6	677.4	514.6	383.1	293.5	241.1	218.5	209.5	206.5	203.1
907.2	10°	798.7	682.7	466.8	308.6	231.3	204.9	195.9	192.1	189.9	187.6
981.4	12.5°	841.3	687.6	419.3	256.2	203.4	189.9	183.5	179.0	175.9	173.3
1057.5	15°	882.7	690.6	370.0	219.6	189.1	178.2	171.4	166.5	162.4	159.4
1132.1	17.5°	923.8	694.7	323.6	197.8	177.4	166.5	159.7	153.7	150.3	146.9
1210.5	20°	969.4	694.0	279.9	182.3	165.8	154.8	147.7	142.0	138.6	134.9
1293.4	22.5°	1011.6	690.2	241.5	169.2	153.7	143.2	135.3	129.6	126.2	123.2
1378.1	25°	1060.2	687.2	209.5	157.1	142.4	131.9	123.2	117.9	114.2	111.5
1463.3	27.5°	1106.9	682.7	186.1	146.2	131.5	121.3	113.0	107.0	103.6	101.7
1551.1	30°	1152.8	681.5	177.4	135.6	121.7	111.5	103.2	97.6	94.9	94.2
1647.5	32.5°	1208.2	684.5	181.2	131.9	112.6	102.5	94.6	90.4	87.8	87.8
1754.9	35°	1267.4	683.8	186.9	135.3	106.6	93.4	87.4	84.8	82.1	82.1
1873.9	37.5°	1341.6	684.9	191.4	140.9	104.4	85.9	82.5	79.1	77.6	77.6
2004.3	40°	1452.3	722.2	189.1	145.8	103.6	80.6	73.8	72.7	71.6	71.6
2151.6	42.5°	1588.0	803.2	192.1	146.2	103.2	76.9	67.8	70.1	67.4	67.1
2317.7	45°	1736.4	891.8	211.4	138.3	102.9	75.0	64.8	67.4	63.3	63.3
2510.2	47.5°	1883.7	979.5	230.9	127.0	101.7	74.6	62.2	60.7	59.5	59.9
2761.2	50°	2086.8	1051.1	238.5	111.5	99.1	73.8	57.3	57.6	56.9	57.6
3114.9	52.5°	2307.9	1066.2	229.4	94.2	91.5	71.6	53.9	55.4	55.0	55.8
3364.0	55°	2445.8	1050.0	189.5	78.4	79.9	62.5	50.5	53.5	53.5	53.5
3607.3	57.5°	2588.2	981.0	134.5	63.7	66.3	51.2	47.5	51.6	51.2	50.9
3900.4	60°	2690.7	869.5	88.5	52.4	52.7	42.2	44.1	48.6	48.2	46.3
4202.6	62.5°	2767.2	746.3	56.9	44.5	40.3	38.1	40.3	44.1	42.6	38.4
4458.8	65°	2758.5	575.7	43.7	38.1	33.2	33.2	35.0	38.4	33.9	27.1
4507.7	67.5°	2597.7	389.6	36.2	32.0	27.9	27.5	29.0	32.0	29.0	23.0
4256.8	70°	2310.2	254.7	29.0	24.9	22.2	20.3	23.4	27.5	24.5	18.5
3623.9	72.5°	1875.1	155.2	21.9	18.1	16.2	13.2	18.5	22.6	19.6	13.6
2520.0	75°	1213.1	79.1	15.1	11.7	8.7	7.9	13.6	17.0	13.6	8.3
1118.2	77.5°	464.1	33.2	8.3	5.3	4.5	3.8	7.5	10.2	5.7	1.9
216.6	80°	89.3	13.9	4.1	2.6	2.3	1.5	1.1	0.8	0.0	0.0
38.4	82.5°	15.4	4.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
7.5	85°	5.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	1.9	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>
699.6
424.6
248.7
202.3
186.9
172.5
159.0
146.6
134.5
122.8
111.1
101.7
93.8
87.8
82.1
77.6
71.6
66.7
63.3
59.9
57.6
55.8
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