

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: P945977

Luminaire Tested: **GALN-SB1D-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945977  
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-SB1D-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

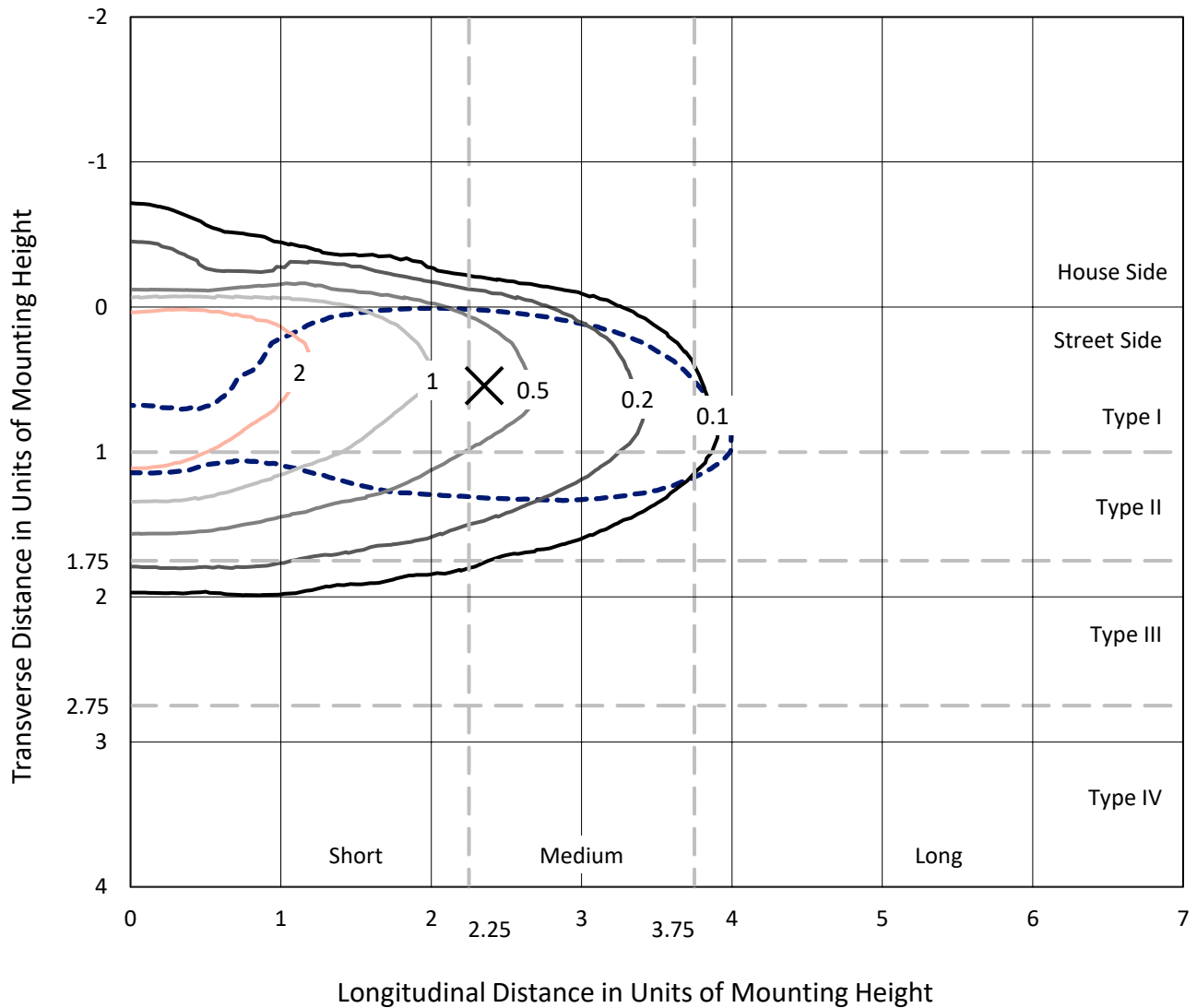
Lumens per Lamp: N/A  
Luminaire Lumens: 8619 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

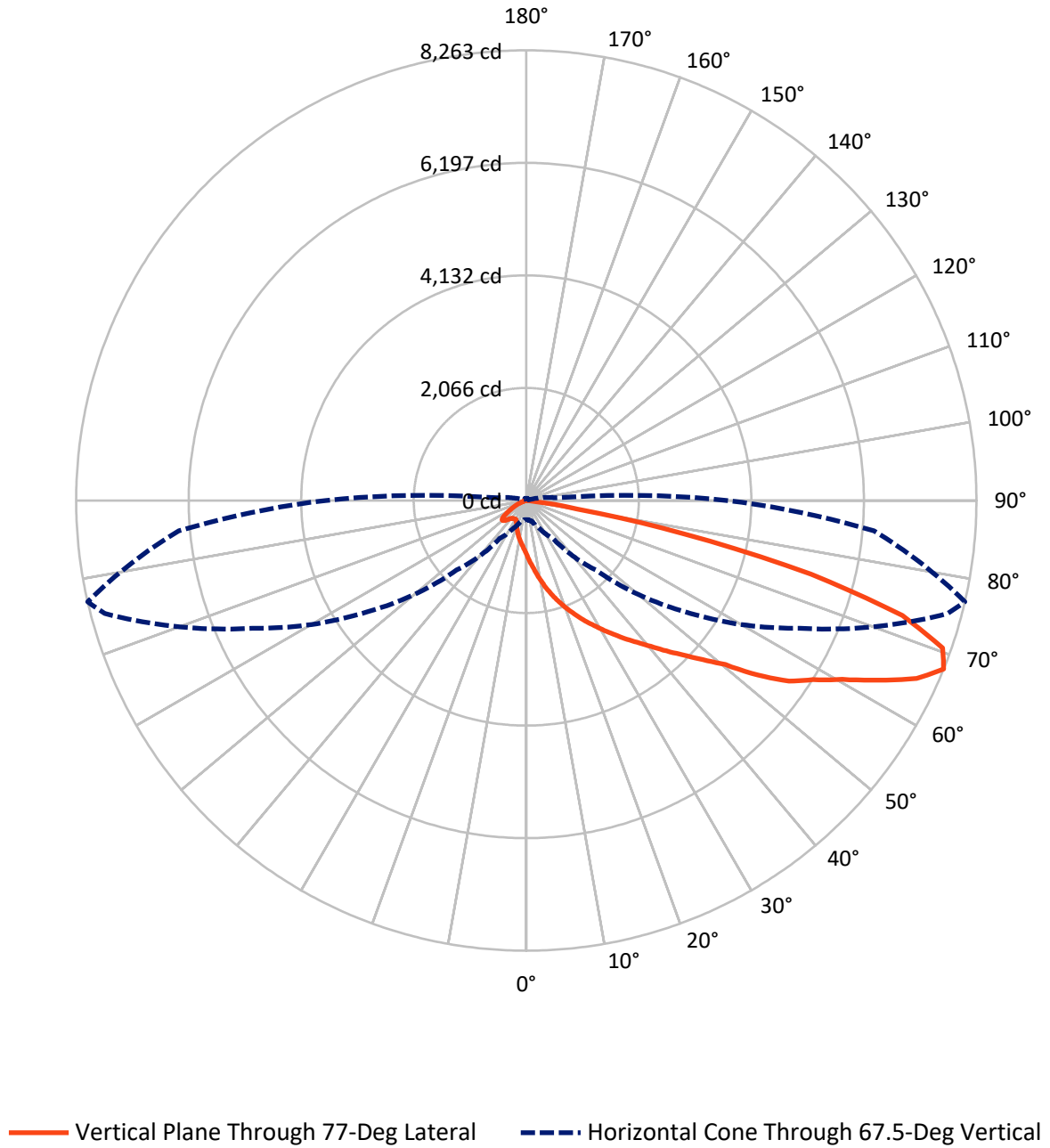
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	634.1	0.0	634.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	7984.9	0.0	7984.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	8619.0	0.0	8619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.4	1.2
10°-20°	355.2	4.1
20°-30°	685.5	8.0
30°-40°	1190.1	13.8
40°-50°	1728.0	20.0
50°-60°	1984.4	23.0
60°-70°	1722.8	20.0
70°-80°	811.4	9.4
80°-90°	40.1	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°	8619.0	100.0
0°-180°	8619.0	100.0

**Coefficient of Utilization**



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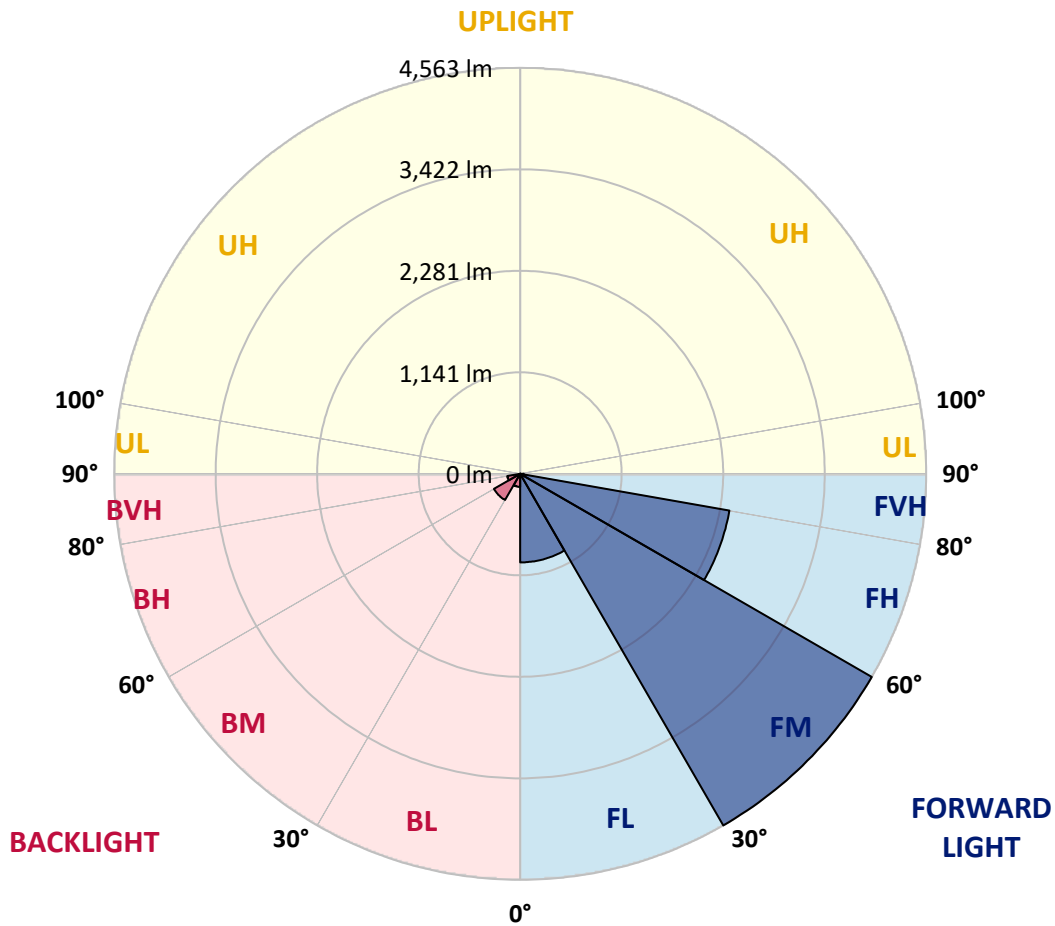
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.4	11.5			
FM (30°-60°)	4562.7	52.9			
FH (60°-80°)	2387.4	27.7			G2/5000
FVH (80°-90°)	39.4	0.5			G1/100
BL (0°-30°)	146.8	1.7	B1/500		
BM (30°-60°)	339.8	3.9	B1/1000		
BH (60°-80°)	146.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.7	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1376.0	1384.6	1372.3	1348.7	1313.4	1290.4	1234.2	1181.2	1122.3	1103.6
5°	1677.4	1684.9	1670.9	1645.3	1598.2	1553.2	1479.3	1368.5	1253.5	1216.5
7.5°	1900.6	1904.8	1899.5	1875.9	1831.0	1780.1	1697.7	1566.6	1395.8	1355.2
10°	2061.1	2075.0	2073.4	2064.3	2034.4	1993.1	1905.4	1756.0	1555.3	1502.9
12.5°	2167.6	2183.1	2192.2	2212.6	2211.0	2184.8	2107.7	1949.8	1714.3	1652.7
15°	2198.7	2215.3	2250.1	2297.2	2338.9	2352.3	2298.2	2139.8	1889.3	1810.6
17.5°	2181.0	2206.7	2248.4	2322.8	2414.4	2474.8	2469.0	2323.4	2048.3	1958.4
20°	2220.1	2244.7	2277.3	2340.0	2446.5	2556.2	2600.1	2498.9	2206.2	2112.0
22.5°	2436.3	2432.0	2435.2	2445.4	2509.1	2617.7	2708.2	2658.4	2362.4	2266.1
25°	2778.8	2759.6	2726.9	2671.8	2655.7	2708.2	2802.4	2799.7	2527.3	2424.0
27.5°	3171.7	3168.5	3091.9	2959.2	2884.3	2863.9	2908.9	2937.3	2690.5	2580.3
30°	3548.0	3556.5	3453.2	3305.5	3167.9	3088.2	3047.5	3067.9	2856.5	2748.9
32.5°	3875.5	3884.6	3772.2	3599.3	3429.1	3332.8	3247.2	3196.8	3037.4	2920.1
35°	4152.2	4161.3	4032.3	3841.3	3659.8	3572.6	3475.7	3338.1	3219.3	3110.1
37.5°	4399.5	4396.8	4223.9	4031.3	3853.0	3784.0	3733.1	3512.1	3406.7	3301.2
40°	4545.6	4556.8	4409.1	4196.6	4023.8	3973.4	3970.2	3727.8	3622.9	3520.7
42.5°	4588.4	4608.2	4501.2	4326.7	4169.9	4115.3	4199.3	3961.1	3874.4	3774.9
45°	4511.3	4530.6	4481.9	4360.9	4269.4	4234.1	4396.3	4203.1	4143.1	4044.6
47.5°	4286.6	4310.6	4322.4	4296.7	4295.6	4331.5	4572.9	4457.8	4462.1	4361.5
50°	3851.4	3892.1	4000.2	4091.2	4232.0	4408.6	4744.7	4734.0	4821.8	4735.1
52.5°	3060.4	3118.2	3490.7	3739.6	4055.9	4394.1	4933.6	5177.2	5452.8	5325.9
55°	2459.3	2459.3	2762.3	3227.9	3712.3	4298.9	5016.1	5465.1	5882.6	5852.6
57.5°	2004.9	2029.0	2222.2	2633.8	3215.0	4071.9	5066.9	5646.0	6228.9	6206.9
60°	1237.4	1289.3	1654.4	2060.6	2649.3	3667.8	5034.8	5829.0	6649.0	6666.7
62.5°	696.9	716.1	878.8	1482.6	2060.0	3124.6	4789.1	5931.3	7186.4	7261.3
65°	481.2	490.8	553.4	922.7	1428.0	2487.7	4309.0	5867.6	7724.8	7876.2
67.5°	349.5	354.3	393.4	563.6	847.2	1803.7	3556.5	5546.5	8010.1	8263.2
70°	268.7	271.9	300.3	370.4	500.4	1113.3	2583.0	4907.9	7803.5	8105.9
72.5°	218.4	221.6	243.5	274.0	331.8	658.3	1565.5	3985.8	6891.5	7217.9
75°	184.1	188.4	208.2	228.0	260.1	422.8	734.3	2775.6	5182.5	5396.6
77.5°	102.2	94.2	169.1	188.9	219.4	267.6	343.6	1633.5	2902.5	2961.9
80°	63.7	65.8	134.3	152.0	168.6	134.9	157.4	628.9	1006.2	955.9
82.5°	3.7	8.6	103.3	109.7	115.6	57.8	59.4	213.6	242.5	222.7
85°	0.0	0.0	47.1	38.0	40.1	16.6	17.1	49.8	32.6	35.3
87.5°	0.0	0.0	0.0	1.1	0.0	1.6	3.2	4.3	1.6	2.1
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°
993.9	0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
1044.7	2.5°	1007.3	969.8	893.8	819.4	758.9	702.7	662.6	624.6	605.3	604.3
1112.2	5°	1037.8	959.1	807.1	672.8	564.7	477.9	421.8	381.6	361.3	354.3
1195.1	7.5°	1080.6	962.3	731.1	544.3	416.9	342.5	310.4	297.6	293.3	288.5
1288.8	10°	1134.7	969.8	663.1	438.3	328.6	291.2	278.3	273.0	269.7	266.5
1394.2	12.5°	1195.1	976.8	595.7	363.9	289.0	269.7	260.7	254.2	249.9	246.2
1502.4	15°	1254.0	981.1	525.6	312.0	268.7	253.2	243.5	236.6	230.7	226.4
1608.3	17.5°	1312.4	986.9	459.8	281.0	252.1	236.6	226.9	218.4	213.6	208.7
1719.7	20°	1377.1	985.9	397.7	259.0	235.5	220.0	209.8	201.8	197.0	191.6
1837.4	22.5°	1437.1	980.5	343.1	240.3	218.4	203.4	192.1	184.1	179.3	175.0
1957.8	25°	1506.1	976.2	297.6	223.2	202.3	187.3	175.0	167.5	162.2	158.4
2078.8	27.5°	1572.5	969.8	264.4	207.7	186.8	172.3	160.6	152.0	147.2	144.5
2203.5	30°	1637.8	968.2	252.1	192.7	172.9	158.4	146.6	138.6	134.9	133.8
2340.5	32.5°	1716.4	972.5	257.4	187.3	160.0	145.6	134.3	128.5	124.7	124.7
2493.0	35°	1800.5	971.4	265.5	192.1	151.5	132.7	124.2	120.4	116.7	116.7
2662.2	37.5°	1905.9	973.0	271.9	200.2	148.3	122.0	117.2	112.4	110.3	110.3
2847.4	40°	2063.3	1026.0	268.7	207.1	147.2	114.5	104.9	103.3	101.7	101.7
3056.6	42.5°	2255.9	1141.1	273.0	207.7	146.6	109.2	96.3	99.6	95.8	95.3
3292.7	45°	2466.8	1266.9	300.3	196.4	146.1	106.5	92.1	95.8	89.9	89.9
3566.1	47.5°	2676.1	1391.6	328.1	180.4	144.5	106.0	88.3	86.2	84.6	85.1
3922.6	50°	2964.6	1493.3	338.8	158.4	140.8	104.9	81.4	81.9	80.8	81.9
4425.2	52.5°	3278.7	1514.7	325.9	133.8	130.1	101.7	76.5	78.7	78.1	79.2
4778.9	55°	3474.6	1491.6	269.2	111.3	113.5	88.8	71.7	76.0	76.0	76.0
5124.7	57.5°	3676.9	1393.7	191.1	90.5	94.2	72.8	67.4	73.3	72.8	72.3
5541.1	60°	3822.5	1235.3	125.8	74.4	74.9	59.9	62.6	69.0	68.5	65.8
5970.3	62.5°	3931.2	1060.3	80.8	63.2	57.3	54.1	57.3	62.6	60.5	54.6
6334.3	65°	3918.9	817.8	62.1	54.1	47.1	47.1	49.8	54.6	48.2	38.5
6403.9	67.5°	3690.3	553.4	51.4	45.5	39.6	39.1	41.2	45.5	41.2	32.6
6047.4	70°	3281.9	361.8	41.2	35.3	31.6	28.9	33.2	39.1	34.8	26.2
5148.2	72.5°	2663.8	220.5	31.0	25.7	23.0	18.7	26.2	32.1	27.8	19.3
3580.1	75°	1723.4	112.4	21.4	16.6	12.3	11.2	19.3	24.1	19.3	11.8
1588.5	77.5°	659.4	47.1	11.8	7.5	6.4	5.4	10.7	14.5	8.0	2.7
307.7	80°	126.8	19.8	5.9	3.7	3.2	2.1	1.6	1.1	0.0	0.0
54.6	82.5°	21.9	6.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
10.7	85°	7.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.7	87.5°	2.7	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>
993.9
603.2
353.2
287.4
265.5
245.1
225.9
208.2
191.1
174.5
157.9
144.5
133.3
124.7
116.7
110.3
101.7
94.7
89.9
85.1
81.9
79.2
76.0
72.3
65.8
53.5
37.5
31.6
25.2
18.2
10.2
2.1
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