

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: P945641

Luminaire Tested: **GALN-SB1C-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945641  
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-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

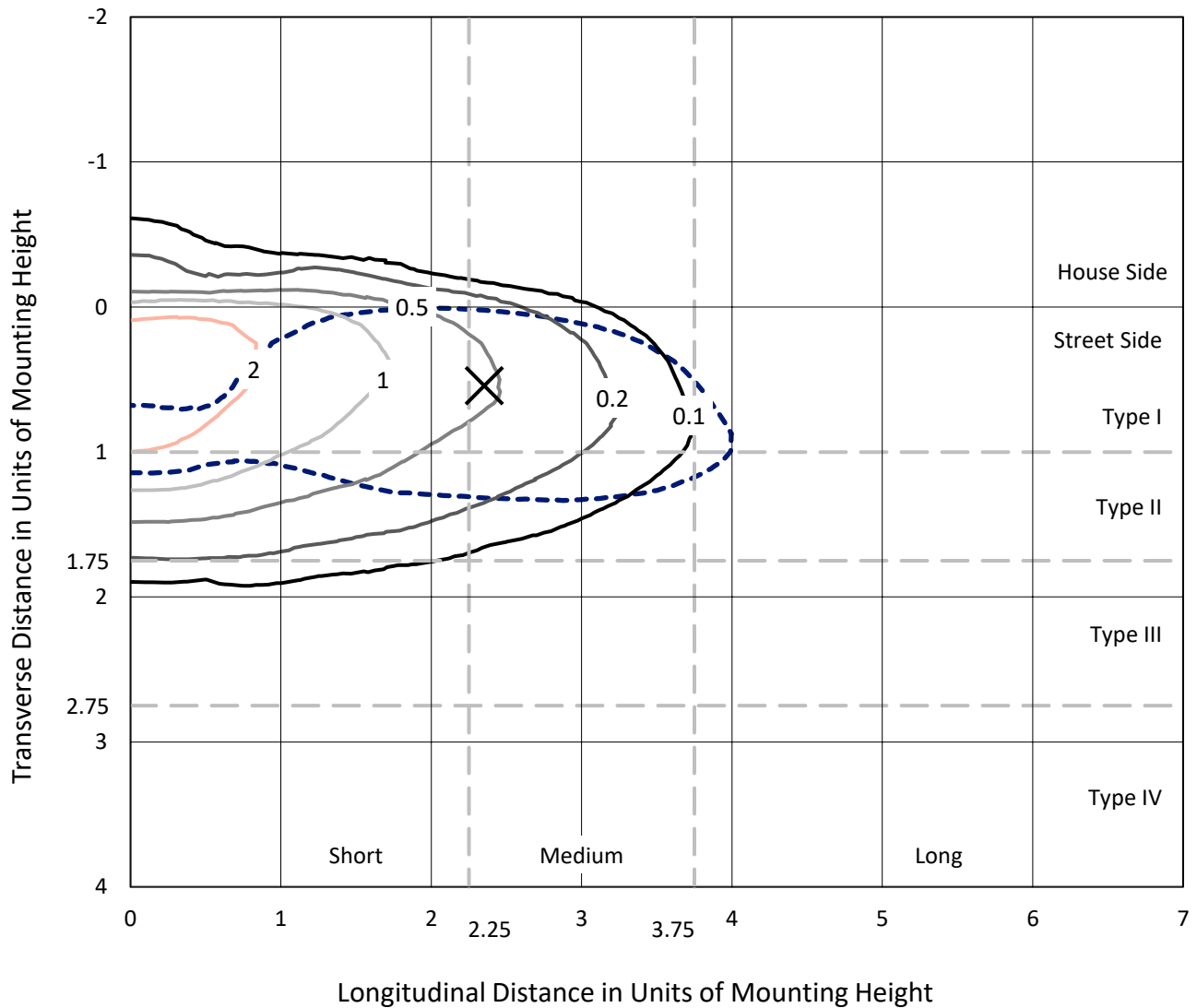
Lumens per Lamp: N/A  
Luminaire Lumens: 6711 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

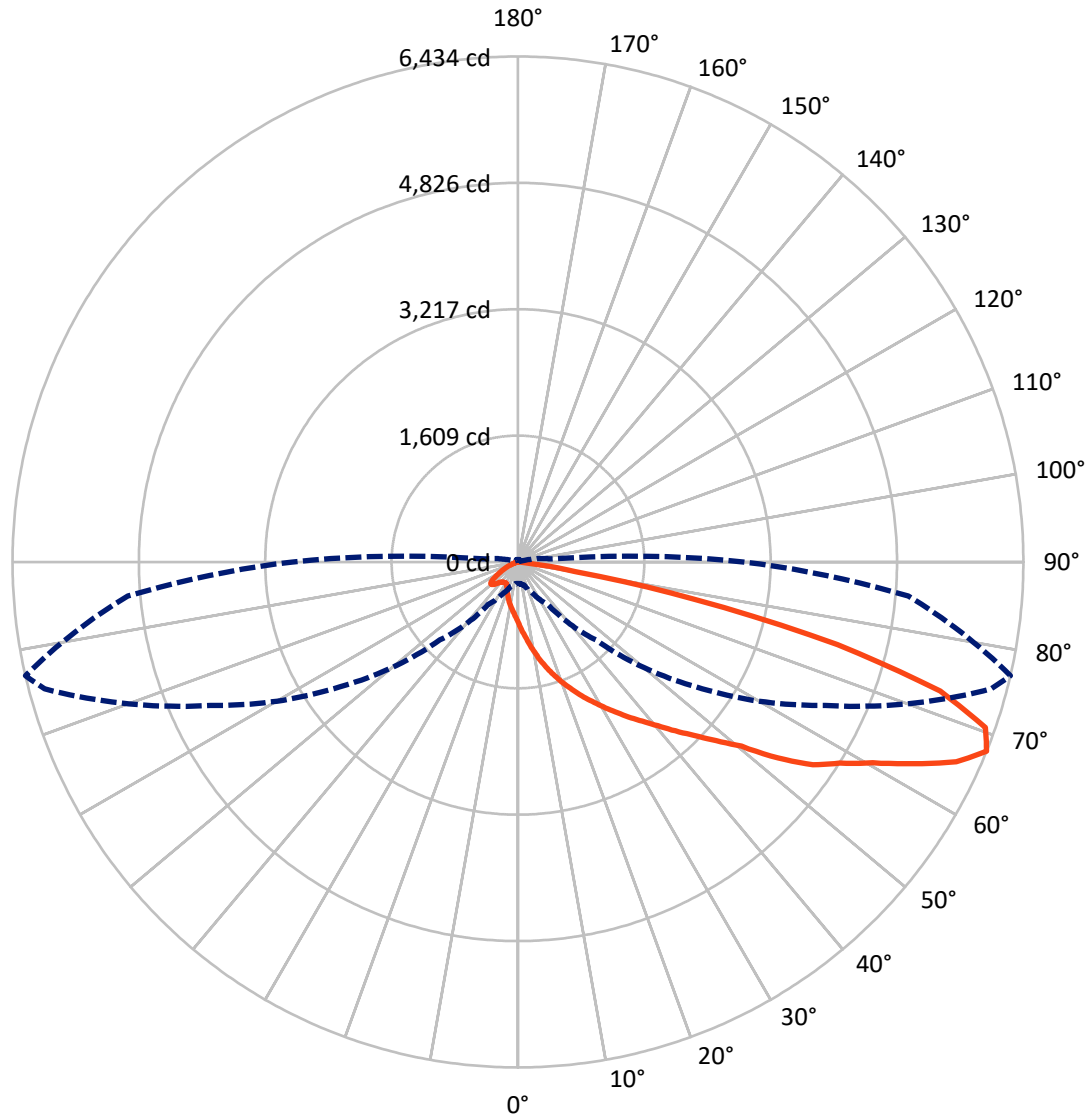
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	493.7	0.0	493.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	6217.3	0.0	6217.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	6711.0	0.0	6711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	1.2
10°-20°	276.6	4.1
20°-30°	533.8	8.0
30°-40°	926.6	13.8
40°-50°	1345.4	20.0
50°-60°	1545.1	23.0
60°-70°	1341.4	20.0
70°-80°	631.8	9.4
80°-90°	31.2	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°	6711.0	100.0
0°-180°	6711.0	100.0

**Coefficient of Utilization**



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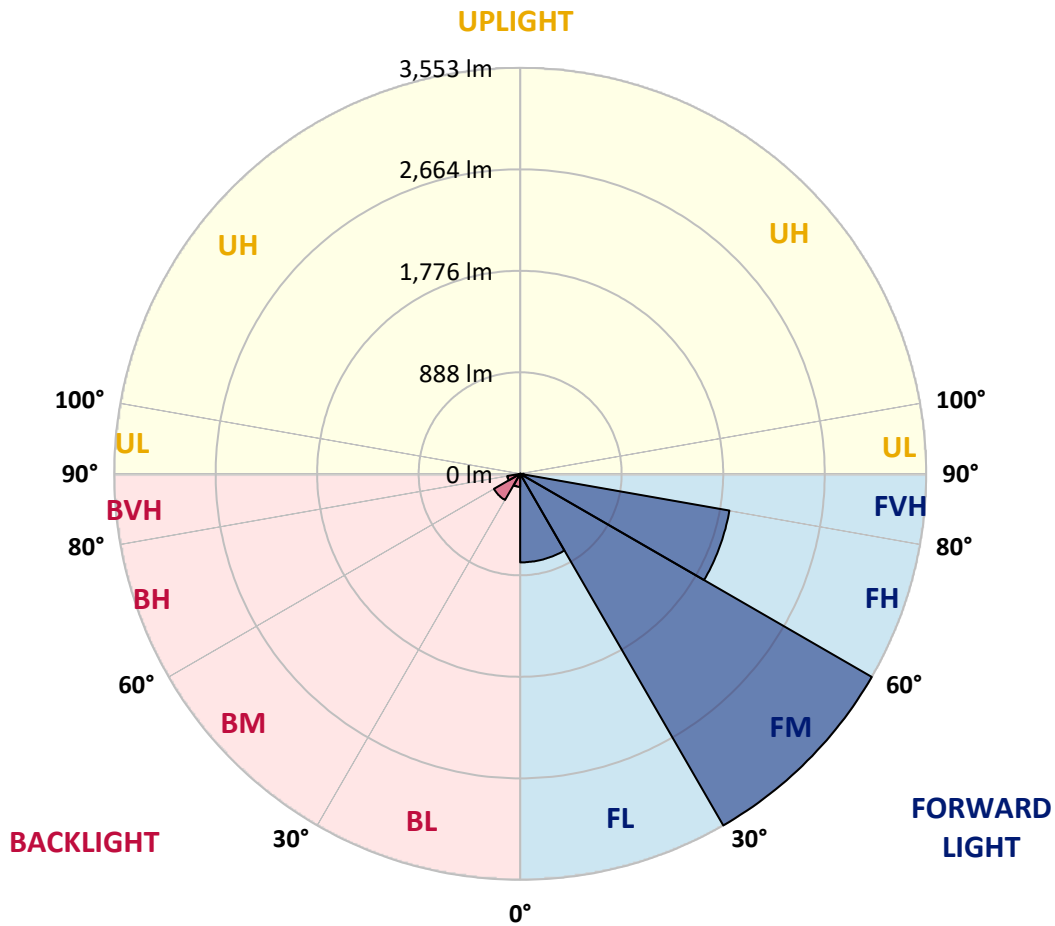
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.0	11.5			
FM (30°-60°)	3552.6	52.9			
FH (60°-80°)	1858.9	27.7			G2/5000
FVH (80°-90°)	30.7	0.5			G1/100
BL (0°-30°)	114.3	1.7	B1/500		
BM (30°-60°)	264.5	3.9	B1/1000		
BH (60°-80°)	114.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	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°	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9
2.5°	1071.4	1078.1	1068.5	1050.2	1022.7	1004.7	961.0	919.7	873.9	859.3
5°	1306.0	1311.9	1301.0	1281.0	1244.4	1209.4	1151.9	1065.6	976.0	947.2
7.5°	1479.8	1483.2	1479.0	1460.7	1425.7	1386.1	1321.9	1219.8	1086.8	1055.2
10°	1604.8	1615.7	1614.4	1607.3	1584.0	1551.9	1483.6	1367.3	1211.0	1170.2
12.5°	1687.8	1699.9	1706.9	1722.8	1721.5	1701.1	1641.1	1518.2	1334.8	1286.9
15°	1711.9	1724.9	1752.0	1788.6	1821.1	1831.6	1789.5	1666.1	1471.1	1409.8
17.5°	1698.2	1718.2	1750.7	1808.6	1879.9	1927.0	1922.4	1809.0	1594.8	1524.8
20°	1728.6	1747.8	1773.2	1822.0	1904.9	1990.3	2024.5	1945.7	1717.8	1644.4
22.5°	1897.0	1893.6	1896.1	1904.1	1953.7	2038.3	2108.7	2069.9	1839.5	1764.5
25°	2163.7	2148.7	2123.3	2080.3	2067.8	2108.7	2182.0	2179.9	1967.8	1887.4
27.5°	2469.6	2467.1	2407.5	2304.1	2245.8	2229.9	2265.0	2287.0	2094.9	2009.1
30°	2762.5	2769.2	2688.8	2573.8	2466.7	2404.6	2372.9	2388.7	2224.1	2140.4
32.5°	3017.6	3024.7	2937.1	2802.5	2670.0	2595.0	2528.3	2489.2	2365.0	2273.7
35°	3233.0	3240.1	3139.7	2990.9	2849.6	2781.7	2706.3	2599.2	2506.7	2421.6
37.5°	3425.6	3423.5	3288.9	3138.8	3000.1	2946.3	2906.7	2734.6	2652.5	2570.4
40°	3539.3	3548.1	3433.1	3267.6	3133.0	3093.8	3091.3	2902.6	2820.9	2741.3
42.5°	3572.7	3588.1	3504.7	3368.9	3246.8	3204.3	3269.7	3084.3	3016.7	2939.2
45°	3512.7	3527.7	3489.7	3395.6	3324.3	3296.8	3423.1	3272.6	3225.9	3149.3
47.5°	3337.6	3356.4	3365.6	3345.5	3344.7	3372.6	3560.6	3471.0	3474.3	3396.0
50°	2998.8	3030.5	3114.7	3185.5	3295.1	3432.6	3694.4	3686.0	3754.4	3686.9
52.5°	2382.9	2427.9	2717.9	2911.7	3158.0	3421.4	3841.5	4031.1	4245.7	4146.9
55°	1914.9	1914.9	2150.8	2513.3	2890.5	3347.2	3905.6	4255.3	4580.3	4557.0
57.5°	1561.1	1579.8	1730.3	2050.8	2503.3	3170.5	3945.2	4396.1	4850.0	4832.9
60°	963.5	1003.9	1288.1	1604.4	2062.8	2855.9	3920.2	4538.7	5177.1	5190.9
62.5°	542.6	557.6	684.3	1154.4	1604.0	2432.9	3728.9	4618.3	5595.5	5653.8
65°	374.6	382.1	430.9	718.5	1111.8	1937.0	3355.1	4568.7	6014.7	6132.7
67.5°	272.1	275.9	306.3	438.8	659.7	1404.4	2769.2	4318.6	6236.9	6434.0
70°	209.2	211.7	233.8	288.4	389.6	866.8	2011.2	3821.5	6076.0	6311.5
72.5°	170.0	172.5	189.6	213.4	258.4	512.6	1218.9	3103.4	5365.9	5620.1
75°	143.4	146.7	162.1	177.5	202.5	329.2	571.8	2161.2	4035.2	4201.9
77.5°	79.6	73.3	131.7	147.1	170.9	208.4	267.5	1271.9	2260.0	2306.2
80°	49.6	51.3	104.6	118.4	131.3	105.0	122.5	489.7	783.5	744.3
82.5°	2.9	6.7	80.4	85.4	90.0	45.0	46.3	166.3	188.8	173.4
85°	0.0	0.0	36.7	29.6	31.3	12.9	13.3	38.8	25.4	27.5
87.5°	0.0	0.0	0.0	0.8	0.0	1.3	2.5	3.3	1.3	1.7
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°
773.9	0°	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9	773.9
813.5	2.5°	784.3	755.1	695.9	638.0	590.9	547.2	515.9	486.3	471.3	470.5
866.0	5°	808.0	746.8	628.4	523.8	439.7	372.1	328.4	297.1	281.3	275.9
930.6	7.5°	841.4	749.3	569.3	423.8	324.6	266.7	241.7	231.7	228.4	224.6
1003.5	10°	883.5	755.1	516.3	341.3	255.9	226.7	216.7	212.5	210.0	207.5
1085.6	12.5°	930.6	760.5	463.8	283.4	225.0	210.0	202.9	197.9	194.6	191.7
1169.8	15°	976.4	763.9	409.2	243.0	209.2	197.1	189.6	184.2	179.6	176.3
1252.3	17.5°	1021.8	768.5	358.0	218.8	196.3	184.2	176.7	170.0	166.3	162.5
1339.0	20°	1072.3	767.6	309.6	201.7	183.4	171.3	163.4	157.1	153.4	149.2
1430.7	22.5°	1118.9	763.5	267.1	187.1	170.0	158.4	149.6	143.4	139.6	136.3
1524.4	25°	1172.7	760.1	231.7	173.8	157.5	145.9	136.3	130.4	126.3	123.4
1618.6	27.5°	1224.4	755.1	205.9	161.7	145.4	134.2	125.0	118.4	114.6	112.5
1715.7	30°	1275.2	753.9	196.3	150.0	134.6	123.4	114.2	107.9	105.0	104.2
1822.4	32.5°	1336.5	757.2	200.4	145.9	124.6	113.4	104.6	100.0	97.1	97.1
1941.2	35°	1401.9	756.4	206.7	149.6	117.9	103.4	96.7	93.8	90.8	90.8
2072.8	37.5°	1484.0	757.6	211.7	155.9	115.4	95.0	91.3	87.5	85.8	85.8
2217.0	40°	1606.5	798.9	209.2	161.3	114.6	89.2	81.7	80.4	79.2	79.2
2380.0	42.5°	1756.5	888.5	212.5	161.7	114.2	85.0	75.0	77.5	74.6	74.2
2563.8	45°	1920.7	986.4	233.8	152.9	113.8	82.9	71.7	74.6	70.0	70.0
2776.7	47.5°	2083.7	1083.5	255.5	140.4	112.5	82.5	68.8	67.1	65.8	66.3
3054.3	50°	2308.3	1162.7	263.8	123.4	109.6	81.7	63.3	63.8	62.9	63.8
3445.6	52.5°	2552.9	1179.4	253.8	104.2	101.3	79.2	59.6	61.3	60.8	61.7
3721.0	55°	2705.4	1161.4	209.6	86.7	88.3	69.2	55.8	59.2	59.2	59.2
3990.2	57.5°	2863.0	1085.2	148.8	70.4	73.3	56.7	52.5	57.1	56.7	56.3
4314.5	60°	2976.3	961.8	97.9	57.9	58.3	46.7	48.8	53.8	53.3	51.3
4648.7	62.5°	3060.9	825.6	62.9	49.2	44.6	42.1	44.6	48.8	47.1	42.5
4932.1	65°	3051.3	636.8	48.3	42.1	36.7	36.7	38.8	42.5	37.5	30.0
4986.2	67.5°	2873.4	430.9	40.0	35.4	30.8	30.4	32.1	35.4	32.1	25.4
4708.7	70°	2555.4	281.7	32.1	27.5	24.6	22.5	25.8	30.4	27.1	20.4
4008.6	72.5°	2074.1	171.7	24.2	20.0	17.9	14.6	20.4	25.0	21.7	15.0
2787.5	75°	1341.9	87.5	16.7	12.9	9.6	8.8	15.0	18.8	15.0	9.2
1236.9	77.5°	513.4	36.7	9.2	5.8	5.0	4.2	8.3	11.3	6.3	2.1
239.6	80°	98.8	15.4	4.6	2.9	2.5	1.7	1.3	0.8	0.0	0.0
42.5	82.5°	17.1	5.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
8.3	85°	5.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	2.1	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>
773.9
469.7
275.0
223.8
206.7
190.9
175.9
162.1
148.8
135.9
122.9
112.5
103.8
97.1
90.8
85.8
79.2
73.8
70.0
66.3
63.8
61.7
59.2
56.3
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