

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: P945647

Luminaire Tested: **GALN-SB1C-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

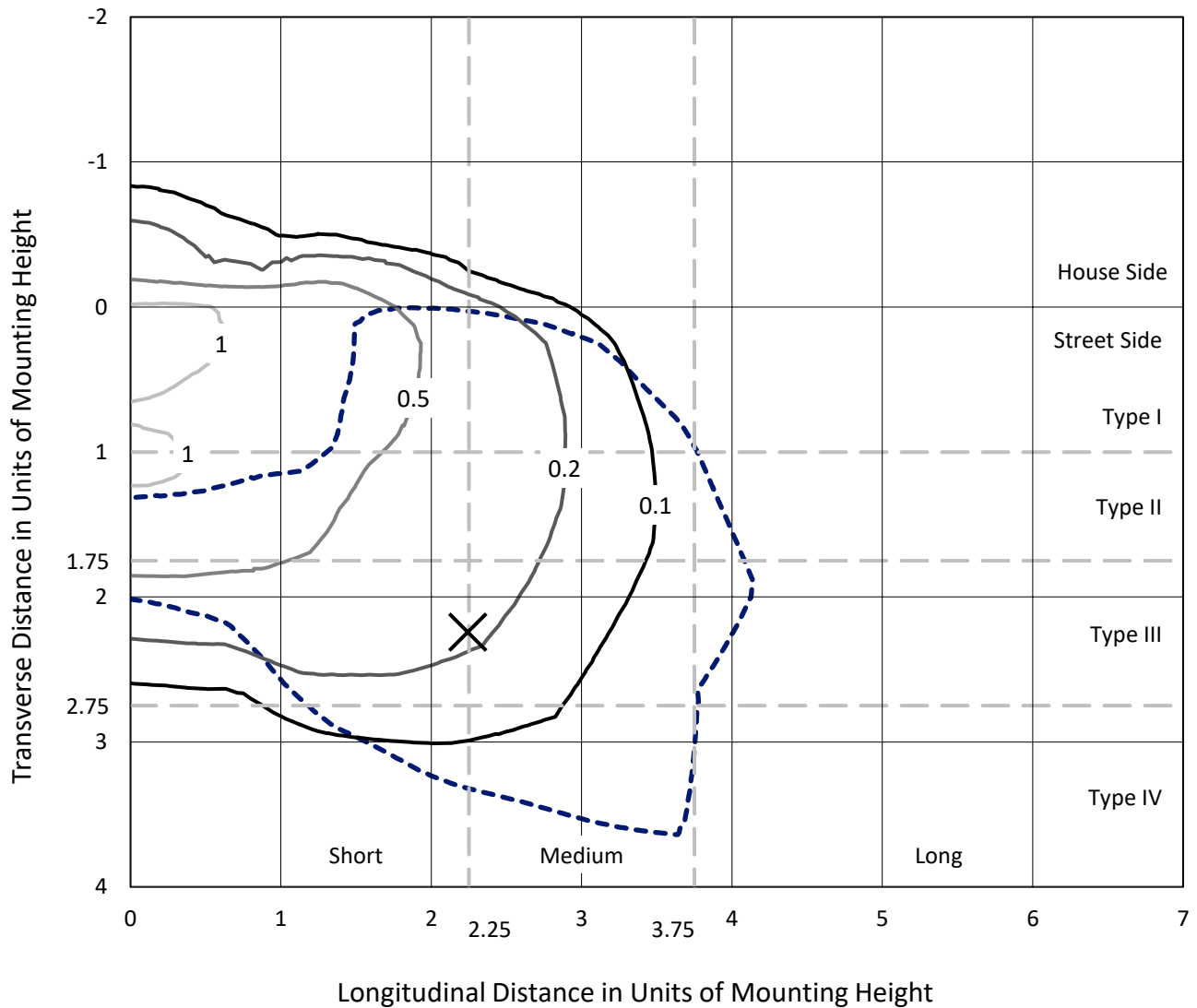
Lumens per Lamp: N/A  
Luminaire Lumens: 6105 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

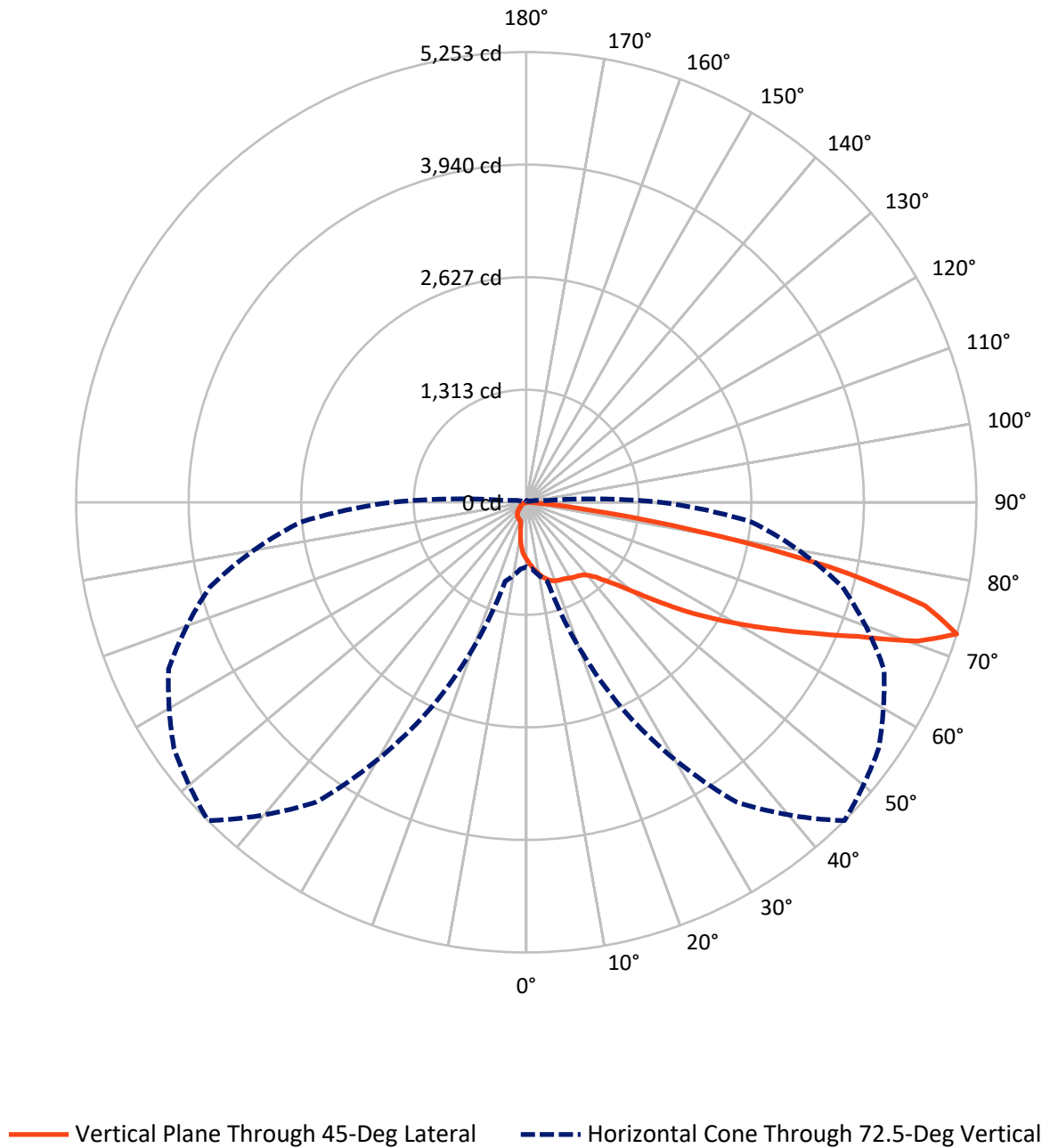
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	641.5	0.0	641.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5463.5	0.0	5463.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6105.0	0.0	6105.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	1.0
10°-20°	184.2	3.0
20°-30°	302.4	5.0
30°-40°	428.9	7.0
40°-50°	709.0	11.6
50°-60°	1273.6	20.9
60°-70°	1768.4	29.0
70°-80°	1282.8	21.0
80°-90°	92.7	1.5
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°	6105.0	100.0
0°-180°	6105.0	100.0

**Coefficient of Utilization**



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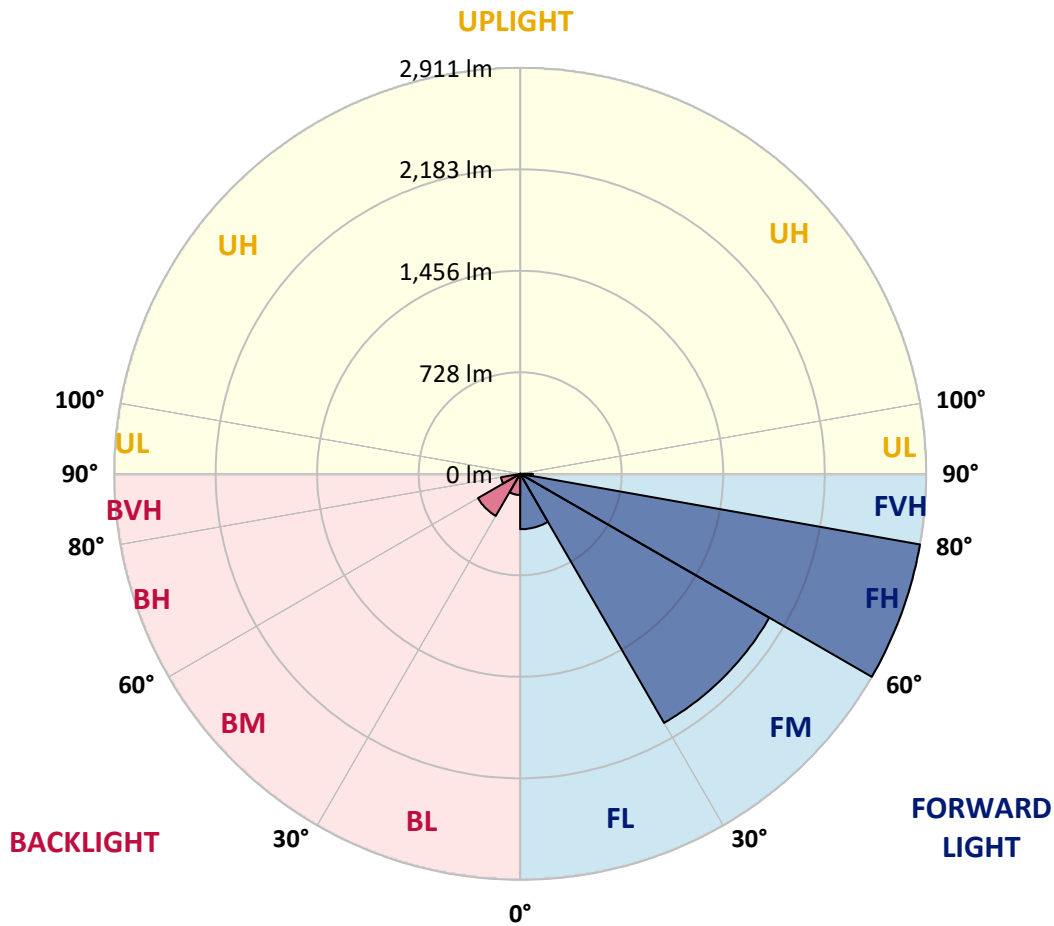
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.7	6.5			
FM (30°-60°)	2062.6	33.8			
FH (60°-80°)	2911.3	47.7			G2/5000
FVH (80°-90°)	92.0	1.5			G1/100
BL (0°-30°)	151.9	2.5	B1/500		
BM (30°-60°)	348.9	5.7	B1/1000		
BH (60°-80°)	139.9	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8
2.5°	730.5	731.7	730.9	725.9	717.6	713.0	710.5	702.2	696.7	687.2
5°	797.6	802.6	799.7	789.7	773.8	762.6	759.2	742.2	726.7	708.8
7.5°	868.8	871.3	865.9	853.0	831.7	812.6	809.7	785.9	761.3	733.8
10°	930.5	933.4	925.1	906.3	882.2	858.4	854.3	828.0	798.8	765.1
12.5°	982.2	985.1	974.3	951.8	925.1	900.5	896.3	868.8	836.7	799.2
15°	1021.4	1026.8	1012.2	988.0	959.3	934.7	932.6	905.5	874.3	832.6
17.5°	1044.3	1049.7	1035.9	1006.8	982.2	961.3	958.8	936.3	907.2	867.2
20°	1048.0	1053.0	1038.4	1013.0	992.6	975.9	974.7	958.4	937.2	898.8
22.5°	1036.8	1043.0	1029.7	1009.3	995.1	986.3	984.7	975.5	963.4	930.9
25°	1025.1	1030.1	1020.1	1002.2	994.7	993.8	995.1	993.4	990.9	963.4
27.5°	1024.3	1029.7	1018.4	1001.3	997.2	1005.9	1007.2	1015.1	1017.2	993.0
30°	1031.4	1035.1	1024.3	1006.3	1004.3	1024.3	1024.7	1038.9	1042.2	1018.0
32.5°	1046.8	1050.9	1040.1	1013.8	1010.9	1038.9	1040.1	1058.9	1064.3	1044.7
35°	1083.0	1088.0	1075.5	1034.7	1024.3	1052.6	1056.4	1078.4	1089.3	1073.0
37.5°	1173.4	1158.9	1141.8	1076.8	1054.7	1074.3	1080.5	1106.4	1125.5	1106.8
40°	1398.1	1352.2	1298.9	1148.4	1108.0	1120.5	1125.5	1151.4	1177.6	1159.3
42.5°	1735.2	1681.0	1595.2	1313.5	1188.5	1194.7	1198.5	1221.0	1258.0	1243.5
45°	2035.6	2016.0	1928.5	1595.2	1338.9	1308.0	1312.6	1324.3	1378.9	1373.5
47.5°	2266.5	2255.2	2187.7	1918.5	1593.1	1446.8	1459.7	1465.1	1543.9	1563.1
50°	2444.0	2439.8	2379.4	2206.1	1925.2	1651.4	1656.0	1644.3	1762.3	1809.8
52.5°	2611.5	2625.7	2581.1	2473.2	2279.8	1919.4	1918.5	1863.5	2022.7	2094.4
55°	2762.8	2767.8	2772.4	2745.7	2636.5	2224.4	2216.5	2126.5	2324.8	2399.0
57.5°	2904.9	2907.0	2947.8	3002.4	3007.8	2551.9	2537.3	2429.4	2654.8	2707.8
60°	3000.3	3009.9	3096.1	3247.8	3314.1	2889.9	2881.9	2771.9	2990.7	3015.3
62.5°	2862.8	2921.1	3138.6	3439.5	3603.3	3264.5	3260.7	3157.4	3344.1	3324.1
65°	2317.3	2416.1	2798.6	3569.1	3887.0	3682.9	3688.3	3578.3	3707.0	3642.0
67.5°	1621.0	1725.2	2177.7	3579.5	4204.2	4174.2	4205.4	4032.9	4092.5	3946.6
70°	1120.9	1174.7	1469.3	3355.3	4451.3	4850.9	4850.1	4591.3	4475.9	4085.4
72.5°	753.8	781.7	954.3	2661.9	4269.6	5253.0	5228.8	5018.0	4605.0	3820.8
75°	317.9	338.4	441.7	1496.0	3377.8	4805.9	4740.5	4434.6	4091.7	3008.6
77.5°	100.8	109.6	174.2	535.5	1860.6	3612.4	3543.3	2769.4	2742.4	1509.3
80°	47.9	55.8	97.9	215.0	732.2	1964.8	1955.2	1256.4	1179.7	407.5
82.5°	20.8	24.6	54.2	115.0	327.5	700.9	715.1	427.5	353.8	154.6
85°	6.7	8.8	25.0	52.9	138.3	174.2	172.1	101.7	142.5	84.2
87.5°	0.0	0.0	8.3	12.1	14.2	10.0	11.3	8.8	39.6	23.3
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°
668.8	0°	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8
677.1	2.5°	672.1	665.5	653.8	643.0	633.4	623.8	618.0	609.6	608.8	608.8
688.0	5°	676.7	665.9	645.1	623.0	597.6	573.4	549.2	525.9	518.4	513.0
705.5	7.5°	690.1	673.0	640.1	598.0	549.6	496.7	459.6	419.6	404.2	395.9
728.8	10°	709.2	685.9	635.9	562.1	483.8	411.7	358.8	315.4	298.8	291.7
754.2	12.5°	730.5	701.7	628.4	517.6	411.7	325.4	273.8	253.8	251.3	251.3
784.7	15°	755.9	720.9	615.5	465.0	336.3	257.5	239.2	240.0	242.5	244.2
814.2	17.5°	782.2	741.3	595.1	406.3	269.6	231.7	232.1	233.4	235.4	237.1
846.3	20°	810.5	761.7	568.0	343.8	231.3	224.2	225.4	226.7	228.4	229.2
876.3	22.5°	840.9	780.9	535.9	282.5	218.4	217.9	218.4	219.6	221.7	221.7
911.3	25°	873.4	802.2	499.2	237.9	211.7	211.7	212.5	213.4	215.0	215.0
945.1	27.5°	906.8	821.7	460.5	214.6	205.9	205.4	205.4	206.7	207.5	207.9
978.4	30°	943.4	844.7	421.7	209.6	201.3	199.2	197.9	198.8	199.6	200.0
1013.4	32.5°	980.9	866.8	387.1	211.7	196.7	192.9	188.8	187.9	187.9	189.6
1049.7	35°	1022.6	890.9	360.5	218.8	194.2	183.8	177.1	173.4	173.8	176.3
1093.0	37.5°	1072.6	920.1	340.9	225.0	192.5	173.4	162.5	157.9	155.0	157.9
1152.6	40°	1138.0	963.0	326.7	230.0	190.4	161.3	146.7	139.2	133.8	135.4
1245.1	42.5°	1234.3	1030.5	321.3	230.4	185.9	147.1	130.4	120.4	112.5	112.9
1384.3	45°	1369.3	1137.2	349.2	225.0	175.9	131.7	113.3	100.0	95.0	93.8
1592.2	47.5°	1554.3	1292.6	413.8	213.8	161.3	116.7	96.7	85.4	81.7	79.6
1865.2	50°	1802.3	1492.2	485.5	201.3	146.7	102.5	82.9	75.8	73.3	71.3
2189.0	52.5°	2089.8	1694.7	544.2	188.8	132.1	90.0	74.2	70.0	67.9	66.3
2501.5	55°	2353.6	1834.3	540.9	175.4	117.9	80.0	67.9	65.4	62.9	61.3
2770.7	57.5°	2517.7	1853.9	445.9	160.8	101.7	72.1	62.1	60.4	57.5	55.4
3003.6	60°	2593.2	1742.3	312.5	141.7	85.4	64.6	55.8	55.0	51.3	48.3
3224.1	62.5°	2606.9	1534.7	208.4	117.9	71.3	57.5	49.6	48.3	43.3	38.3
3403.3	65°	2551.1	1238.0	144.2	92.1	60.8	50.0	42.5	40.0	34.6	29.6
3445.8	67.5°	2374.4	869.3	100.4	66.3	51.7	39.6	33.8	32.9	28.8	24.6
3229.1	70°	2050.6	495.5	67.1	49.6	40.8	27.1	26.7	27.5	23.3	20.0
2638.2	72.5°	1572.2	226.7	41.7	36.3	27.9	18.3	21.3	21.7	17.9	15.0
1646.0	75°	925.5	97.1	26.3	23.3	14.2	12.1	15.4	15.8	12.1	9.6
601.7	77.5°	315.0	36.7	16.7	13.8	7.1	6.7	10.0	10.0	6.7	3.8
120.8	80°	71.7	13.8	8.3	5.4	3.3	2.9	3.3	2.9	1.7	0.4
37.1	82.5°	20.4	5.4	3.3	2.1	1.3	1.3	0.4	0.0	0.0	0.0
12.9	85°	5.8	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	2.5	0.4	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>
668.8
610.9
515.5
397.1
291.7
251.3
244.2
237.1
229.6
222.5
215.4
208.4
200.9
190.9
177.5
157.1
134.6
111.3
92.1
78.3
70.8
65.8
60.4
55.0
47.5
35.8
27.9
23.3
18.3
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