

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: P941124

Luminaire Tested: **GALN-SB4C-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

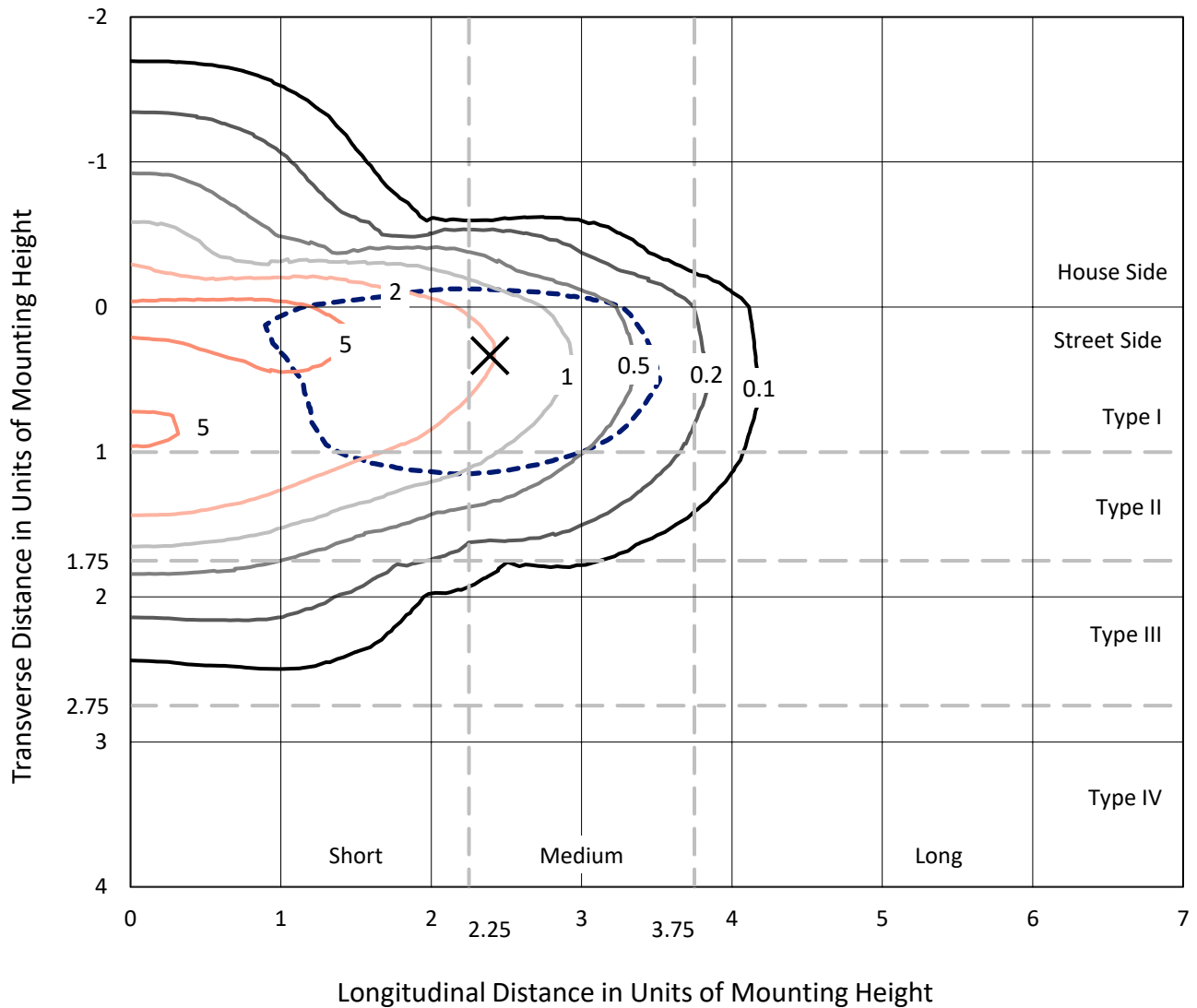
Lumens per Lamp: N/A  
Luminaire Lumens: 21917 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

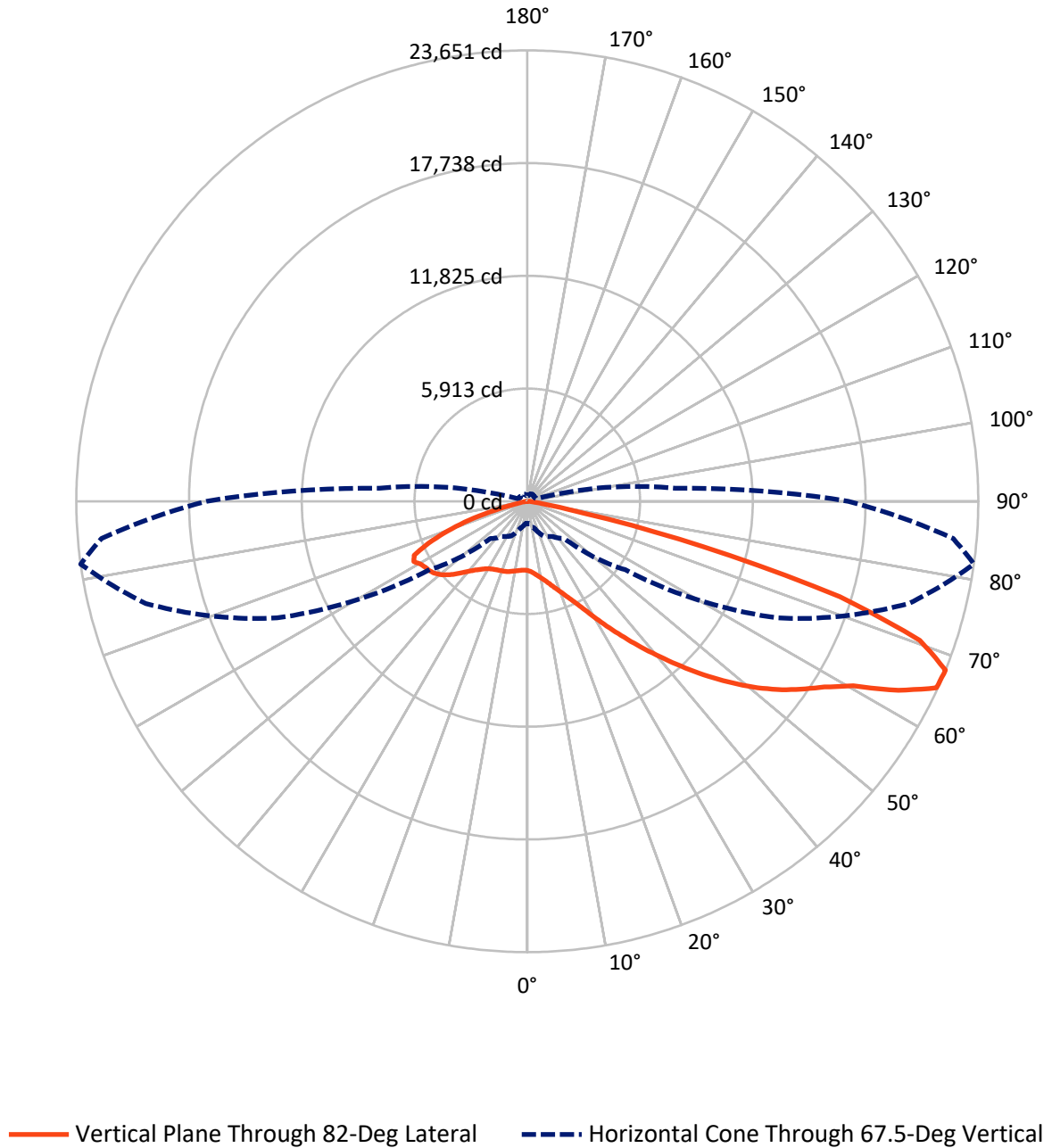
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3970.1	0.0	3970.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	17946.9	0.0	17946.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	21917.0	0.0	21917.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.5	1.5
10°-20°	840.6	3.8
20°-30°	1346.4	6.1
30°-40°	2380.8	10.9
40°-50°	4171.5	19.0
50°-60°	5563.5	25.4
60°-70°	5179.4	23.6
70°-80°	1987.8	9.1
80°-90°	123.5	0.6
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°	21917.0	100.0
0°-180°	21917.0	100.0

**Coefficient of Utilization**



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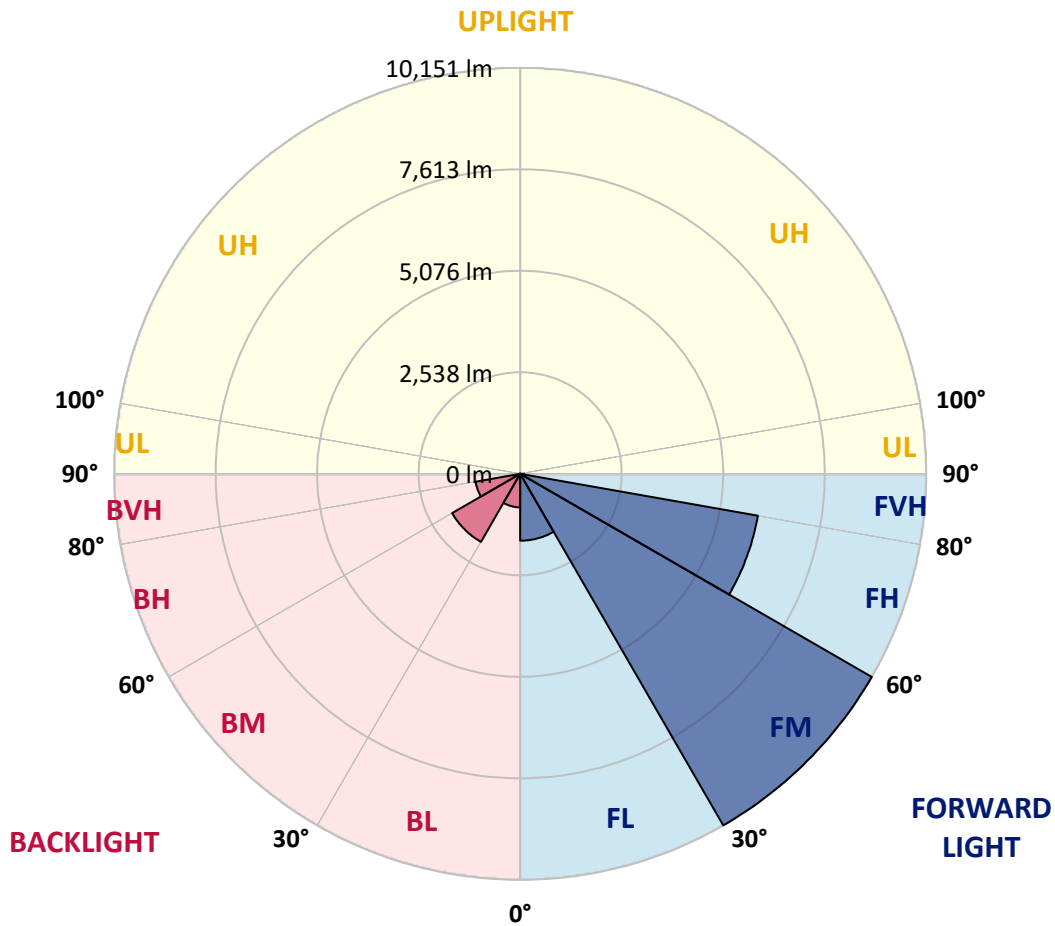
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.0	7.6			
FM (30°-60°)	10151.1	46.3			
FH (60°-80°)	6034.1	27.5			G3/7500
FVH (80°-90°)	89.8	0.4			G1/100
BL (0°-30°)	838.5	3.8	B2/1000		
BM (30°-60°)	1964.8	9.0	B2/2500		
BH (60°-80°)	1133.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9
2.5°	3837.6	3859.7	3847.1	3840.8	3829.7	3813.9	3801.3	3761.9	3720.8	3694.0
5°	3914.9	3937.0	3935.5	3941.8	3949.7	3954.4	3951.2	3907.0	3848.7	3802.9
7.5°	3848.7	3873.9	3894.4	3926.0	3981.2	4039.6	4068.0	4058.5	3998.6	3935.5
10°	3660.9	3687.7	3736.6	3810.8	3927.6	4053.8	4159.5	4208.4	4170.6	4101.1
12.5°	3316.9	3343.7	3440.0	3600.9	3796.6	4015.9	4217.9	4348.9	4358.3	4288.9
15°	2930.3	2957.1	3059.7	3261.7	3559.9	3911.8	4249.5	4497.2	4580.8	4520.9
17.5°	2690.4	2714.1	2791.4	2954.0	3264.8	3703.5	4238.4	4655.0	4845.9	4798.6
20°	2617.8	2638.4	2674.7	2788.3	3047.1	3487.3	4165.8	4803.3	5131.6	5104.7
22.5°	2695.2	2714.1	2725.2	2775.6	2938.2	3345.3	4074.3	4954.8	5462.9	5466.1
25°	2873.5	2892.4	2879.8	2911.4	2982.4	3301.1	4039.6	5133.1	5879.5	5914.2
27.5°	3167.0	3168.6	3138.6	3137.0	3148.0	3367.4	4075.9	5324.1	6405.0	6469.7
30°	3755.6	3731.9	3616.7	3492.0	3435.2	3566.2	4176.9	5549.7	7025.1	7140.3
32.5°	4662.9	4628.2	4416.7	4118.5	3818.7	3886.5	4358.3	5806.9	7700.5	7908.8
35°	5647.5	5638.1	5417.2	4973.8	4449.9	4342.6	4653.4	6144.6	8437.4	8768.8
37.5°	6562.8	6558.0	6431.8	5909.5	5272.0	4978.5	5126.8	6586.4	9226.4	9706.1
40°	7399.1	7413.3	7287.1	6820.0	6177.7	5794.3	5770.6	7132.4	10103.7	10727.0
42.5°	8121.8	8137.6	8009.8	7664.2	7072.5	6696.9	6561.2	7801.5	10960.6	11823.7
45°	8612.6	8710.4	8691.4	8415.3	7990.8	7601.1	7511.1	8641.0	11937.3	12986.7
47.5°	8751.4	8841.4	8983.4	9021.2	8762.5	8379.0	8486.3	9652.4	12925.1	14151.2
50°	8409.0	8492.6	8787.7	9180.6	9360.5	9242.2	9434.7	10736.5	13936.6	15312.6
52.5°	7733.6	7818.8	8191.2	8813.0	9546.7	9919.1	10386.2	11804.8	14916.5	16412.4
55°	6756.9	6846.8	7324.9	8028.7	9191.7	10198.4	11179.9	12871.5	15814.4	17401.8
57.5°	5428.2	5494.5	5991.5	6976.2	8298.5	9920.7	11765.3	14036.0	16660.2	18373.9
60°	3537.8	3596.2	4173.7	5272.0	6818.4	8992.8	11882.1	15334.7	17783.7	19637.8
62.5°	2352.8	2392.2	2734.6	3541.0	4801.8	7211.3	11198.8	16371.4	19431.1	21837.5
65°	1614.3	1653.7	1996.1	2557.9	3102.3	4770.2	9234.3	16234.1	20923.9	23584.3
67.5°	1151.9	1185.1	1475.4	2005.6	2245.4	2770.9	6259.8	14479.4	20709.3	23650.6
70°	825.3	844.2	1084.1	1562.2	1784.7	1664.8	3481.0	11074.2	18132.4	21839.1
72.5°	577.5	583.8	752.7	1189.8	1437.5	1215.0	1656.9	7383.3	13714.1	17141.5
75°	391.3	399.2	506.5	872.6	1153.5	927.8	877.4	3959.1	8050.8	9488.3
77.5°	239.9	243.0	326.6	596.5	863.1	706.9	564.9	1677.4	3114.9	3058.1
80°	135.7	135.7	208.3	370.8	588.6	456.0	396.1	713.2	986.2	866.3
82.5°	75.7	77.3	151.5	230.4	389.8	269.8	217.8	329.8	426.1	377.1
85°	31.6	34.7	93.1	108.9	186.2	134.1	88.4	138.9	157.8	140.4
87.5°	3.2	4.7	28.4	20.5	22.1	26.8	12.6	26.8	22.1	22.1
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°
3630.9	0°	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9
3684.6	2.5°	3654.6	3630.9	3570.9	3501.5	3410.0	3365.8	3305.8	3264.8	3230.1	3233.3
3776.1	5°	3725.6	3665.6	3531.5	3364.2	3155.9	3007.6	2849.8	2740.9	2652.6	2633.6
3902.3	7.5°	3823.4	3728.7	3493.6	3192.2	2840.3	2573.7	2335.4	2182.3	2073.5	2038.7
4055.4	10°	3949.7	3812.4	3444.7	2976.0	2469.5	2130.3	1874.6	1754.7	1680.5	1655.3
4235.3	12.5°	4096.4	3908.6	3380.0	2712.5	2087.7	1761.0	1598.5	1538.5	1514.8	1507.0
4456.2	15°	4281.0	4028.6	3282.2	2400.1	1764.2	1535.4	1465.9	1458.0	1461.2	1458.0
4721.3	17.5°	4500.4	4159.5	3122.8	2078.2	1546.4	1420.2	1394.9	1401.2	1409.1	1407.5
5017.9	20°	4740.2	4288.9	2919.2	1792.6	1398.1	1338.1	1323.9	1330.2	1336.5	1333.4
5360.4	22.5°	5013.2	4427.8	2693.6	1570.1	1298.7	1262.4	1246.6	1248.2	1248.2	1241.9
5794.3	25°	5339.8	4580.8	2456.9	1412.3	1222.9	1194.5	1175.6	1169.3	1159.8	1140.9
6321.3	27.5°	5729.6	4743.4	2229.7	1301.8	1163.0	1136.1	1114.0	1098.3	1074.6	1043.0
6954.1	30°	6168.3	4940.6	2037.2	1232.4	1115.6	1088.8	1063.6	1039.9	1005.2	965.7
7681.5	32.5°	6684.3	5152.1	1896.7	1186.6	1073.0	1044.6	1014.6	986.2	948.4	908.9
8498.9	35°	7299.7	5407.7	1814.7	1155.1	1039.9	1002.0	968.9	937.3	908.9	874.2
9387.3	37.5°	7967.2	5679.1	1789.4	1139.3	1017.8	959.4	921.5	899.4	896.3	875.8
10348.3	40°	8697.8	6001.0	1808.4	1129.8	994.1	918.4	877.4	872.6	880.5	844.2
11375.6	42.5°	9471.0	6382.9	1839.9	1118.8	961.0	877.4	837.9	837.9	831.6	781.1
12461.2	45°	10307.3	6823.1	1871.5	1092.0	921.5	836.3	806.3	795.3	768.5	719.6
13553.2	47.5°	11149.9	7271.3	1895.1	1043.0	874.2	801.6	774.8	749.5	710.1	665.9
14624.6	50°	11950.0	7673.7	1869.9	970.5	820.5	768.5	740.1	705.4	662.7	632.8
15639.2	52.5°	12664.8	8022.4	1762.6	885.2	763.7	733.8	708.5	672.2	637.5	605.9
16554.5	55°	13286.5	8304.8	1573.2	804.8	713.2	703.8	678.5	632.8	585.4	558.6
17461.8	57.5°	13883.0	8519.5	1336.5	738.5	667.5	670.6	632.8	591.7	547.6	519.2
18684.7	60°	14676.7	8806.6	1096.7	676.9	618.6	628.0	587.0	557.0	501.8	465.5
20781.8	62.5°	15945.4	9253.2	871.0	601.2	561.8	564.9	547.6	511.3	445.0	402.4
22336.1	65°	16952.1	9089.1	686.4	519.2	497.1	501.8	501.8	462.3	391.3	342.4
22419.8	67.5°	16838.5	7782.5	547.6	438.7	435.5	438.7	449.7	416.6	347.2	307.7
20712.4	70°	15511.4	6190.4	438.7	364.5	378.7	370.8	402.4	380.3	312.4	273.0
16057.4	72.5°	12656.9	4459.3	334.5	301.4	290.3	303.0	362.9	342.4	260.4	216.2
8505.2	75°	7395.9	2379.6	249.3	238.3	209.9	252.5	321.9	291.9	198.8	159.4
2606.8	77.5°	2408.0	830.0	183.0	175.2	156.2	203.6	274.6	246.2	162.5	126.2
763.7	80°	645.4	250.9	124.7	115.2	101.0	151.5	217.8	195.7	116.8	82.1
328.2	82.5°	258.8	105.7	72.6	64.7	55.2	104.1	172.0	157.8	86.8	52.1
102.6	85°	83.6	34.7	26.8	20.5	25.2	64.7	102.6	107.3	61.5	26.8
15.8	87.5°	11.0	4.7	4.7	6.3	4.7	11.0	31.6	30.0	17.4	3.2
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>
3630.9
3201.7
2591.0
2004.0
1636.4
1502.2
1456.5
1404.4
1331.8
1238.7
1137.7
1039.9
962.6
910.5
871.0
874.2
845.8
781.1
718.0
664.3
628.0
602.8
555.4
516.0
460.8
399.2
337.7
301.4
268.3
211.4
154.6
121.5
80.5
52.1
20.5
0.0
0.0

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