

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: P951062

Luminaire Tested: **GALN-SB5B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25066 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

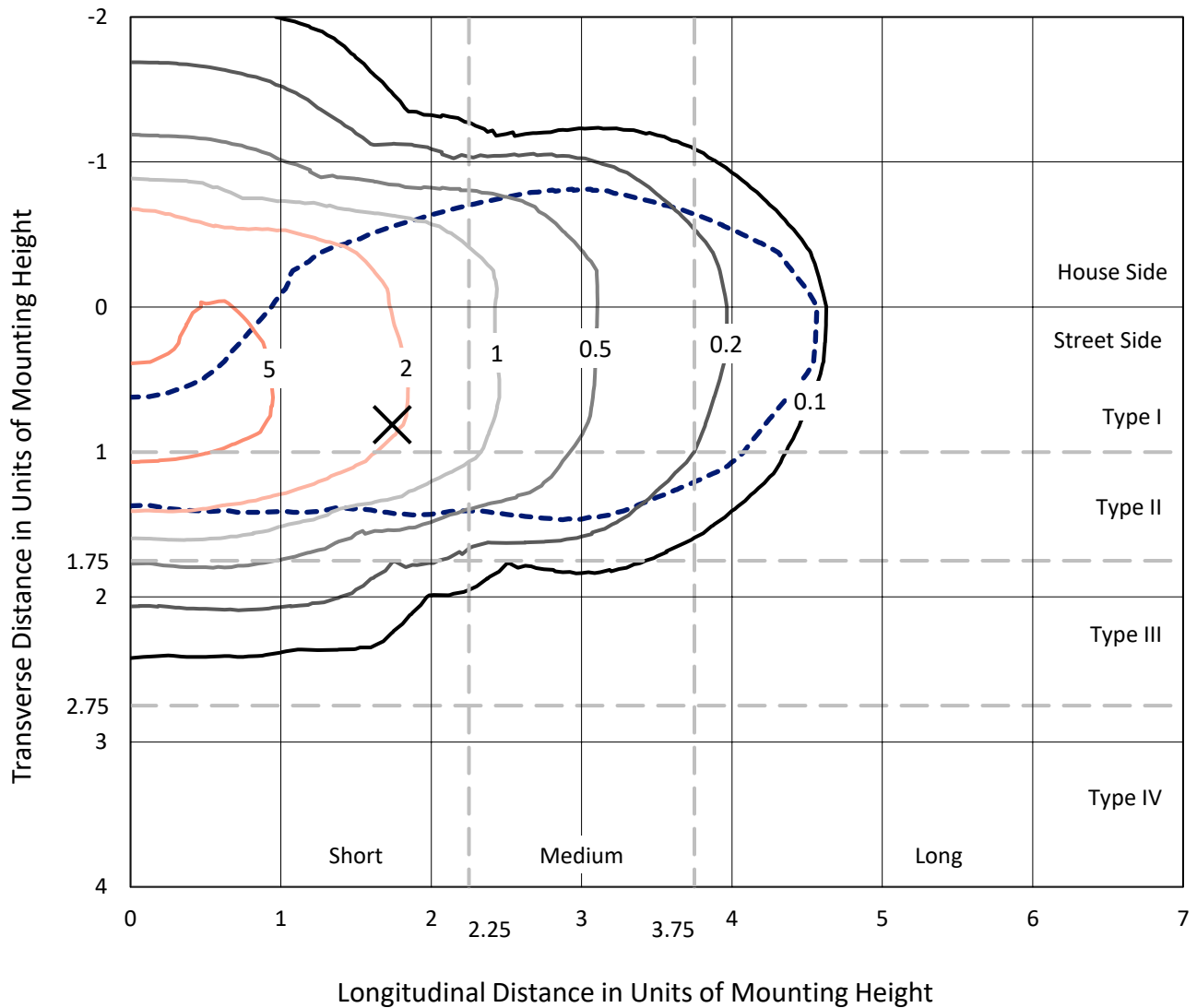
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

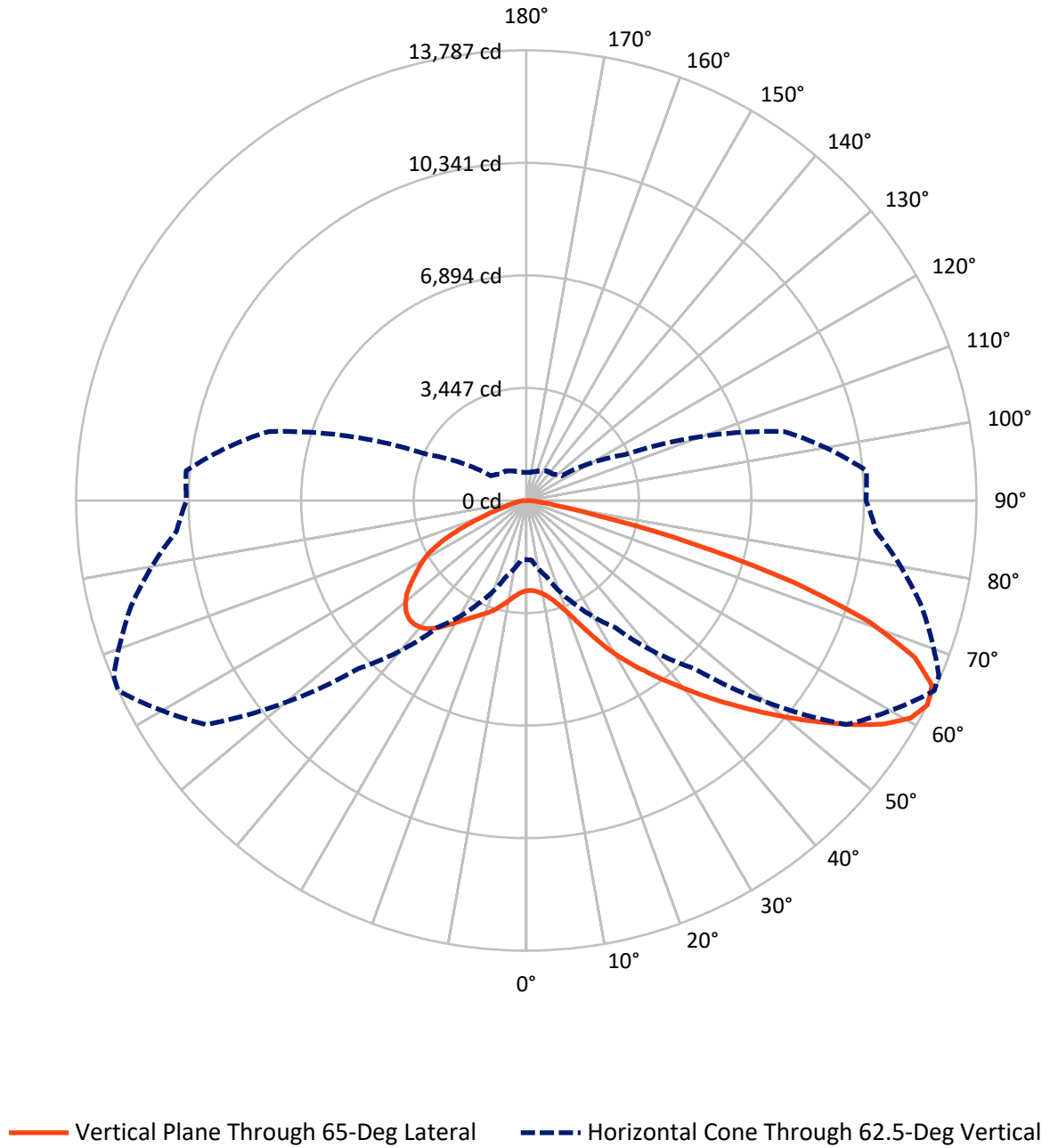
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7909.7	0.0	7909.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17156.3	0.0	17156.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	25066.0	0.0	25066.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	1.1
10°-20°	933.9	3.7
20°-30°	1893.5	7.6
30°-40°	3276.6	13.1
40°-50°	4958.6	19.8
50°-60°	5813.6	23.2
60°-70°	4874.0	19.4
70°-80°	2690.9	10.7
80°-90°	349.5	1.4
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°	25066.0	100.0
0°-180°	25066.0	100.0

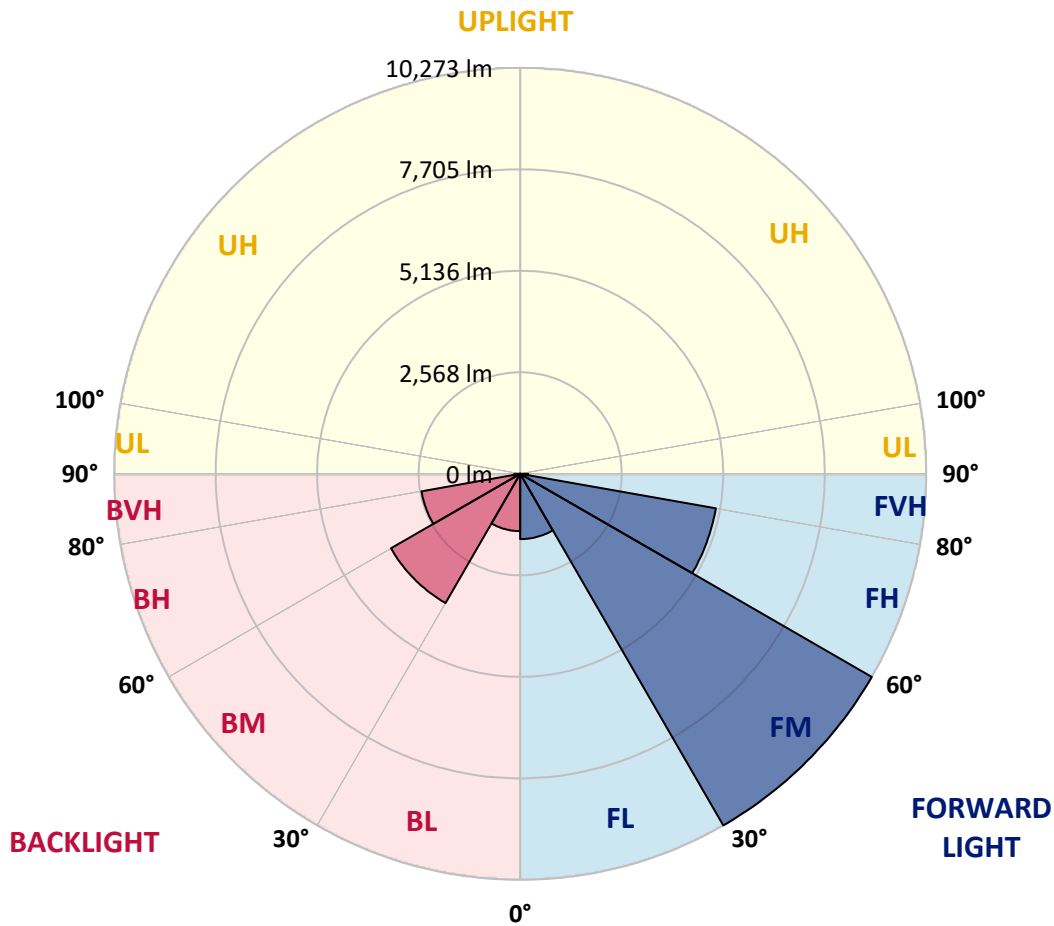


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.2	6.6			
FM (30°-60°)	10272.9	41.0			
FH (60°-80°)	5027.5	20.1			G3/7500
FVH (80°-90°)	203.7	0.8			G2/225
BL (0°-30°)	1450.5	5.8	B3/2500		
BM (30°-60°)	3776.0	15.1	B3/5000		
BH (60°-80°)	2537.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	145.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2
2.5°	2744.0	2736.2	2742.7	2742.7	2745.3	2744.0	2753.1	2755.7	2759.6	2767.4
5°	2716.6	2715.3	2727.1	2737.5	2747.9	2757.0	2768.7	2785.6	2788.2	2797.3
7.5°	2707.5	2699.7	2717.9	2731.0	2755.7	2777.8	2809.0	2837.6	2849.3	2853.2
10°	2777.8	2764.8	2781.7	2789.5	2810.3	2832.4	2868.8	2914.3	2927.3	2942.9
12.5°	2897.4	2883.1	2907.8	2919.5	2939.0	2958.5	2983.2	3027.5	3034.0	3062.6
15°	3061.3	3044.4	3060.0	3074.3	3106.8	3125.0	3149.7	3192.6	3192.6	3214.7
17.5°	3283.6	3261.5	3273.2	3278.4	3299.3	3326.6	3368.2	3405.9	3425.4	3417.6
20°	3615.3	3588.0	3588.0	3561.9	3554.1	3576.2	3630.9	3682.9	3703.7	3663.4
22.5°	4113.3	4074.3	4052.2	3963.8	3928.7	3931.3	3985.9	4049.6	4066.5	3995.0
25°	4746.7	4685.5	4655.6	4525.6	4446.3	4377.3	4420.2	4502.2	4525.6	4437.1
27.5°	5380.0	5383.9	5355.3	5199.2	5067.9	4941.7	4919.6	5005.4	5030.2	4930.0
30°	6268.2	6175.9	6121.2	5934.0	5746.7	5569.8	5478.8	5513.9	5520.4	5400.8
32.5°	7034.2	7010.7	6893.7	6729.8	6489.3	6212.3	6060.1	6004.2	5993.8	5823.4
35°	7906.8	7893.8	7770.2	7575.1	7315.1	6930.1	6655.7	6495.8	6482.8	6243.5
37.5°	8793.7	8793.7	8672.7	8459.5	8190.3	7709.1	7291.6	7038.1	6996.4	6684.3
40°	9501.1	9458.2	9480.3	9390.6	9082.4	8571.3	7997.8	7629.8	7573.8	7199.3
42.5°	9903.0	9888.7	10021.3	10121.4	9995.3	9586.9	8775.5	8270.9	8192.9	7766.3
45°	9992.7	9977.1	10213.8	10580.5	10757.4	10589.6	9620.8	8945.8	8850.9	8359.3
47.5°	9785.9	9754.7	10101.9	10680.6	11247.6	11542.8	10536.3	9678.0	9540.1	8936.7
50°	9164.3	9134.4	9659.8	10428.3	11412.8	12190.5	11529.8	10454.4	10243.7	9555.7
52.5°	7813.1	7827.4	8650.6	9706.6	11195.6	12593.6	12385.5	11272.3	11018.7	10189.1
55°	6086.1	6117.3	7129.1	8291.7	10326.9	12532.5	12969.4	12115.0	11862.7	10784.7
57.5°	4357.8	4495.7	5443.7	6594.6	8658.4	11563.6	13096.9	12916.1	12671.6	11434.9
60°	2824.6	2849.3	3824.6	4984.6	6593.3	9841.8	12838.1	13523.4	13332.3	12098.1
62.5°	1810.2	1827.1	2421.4	3486.5	4745.4	7281.2	11966.8	13787.4	13728.9	12536.4
65°	1330.4	1317.4	1626.9	2304.4	3196.5	4490.5	10274.9	13660.0	13775.7	12810.8
67.5°	1110.6	1092.4	1244.5	1595.7	2355.1	2550.2	7602.5	12831.6	13255.5	12779.6
70°	1011.8	996.1	1088.5	1184.7	1837.5	1707.5	3832.4	11155.3	11808.1	12424.5
72.5°	857.0	829.7	955.8	1052.1	1429.2	1309.6	1584.0	8568.7	9364.6	11286.6
75°	664.5	646.3	754.3	925.9	1074.2	1022.2	1001.3	5203.1	6071.8	8728.6
77.5°	526.7	502.0	600.8	721.8	966.2	771.2	729.6	2240.7	3101.6	5572.4
80°	396.6	374.5	456.5	570.9	742.6	581.3	472.1	914.2	1169.1	2823.3
82.5°	282.2	262.7	318.6	418.7	499.4	521.5	290.0	512.4	576.1	1088.5
85°	180.8	169.1	213.3	262.7	317.3	335.5	176.9	267.9	293.9	448.7
87.5°	98.8	80.6	114.4	122.2	147.0	133.9	84.5	97.5	105.3	162.6
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°
2762.2	0°	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2	2762.2
2767.4	2.5°	2772.6	2776.5	2789.5	2793.4	2802.5	2814.2	2822.0	2829.8	2829.8	2837.6
2809.0	5°	2810.3	2819.4	2846.7	2861.0	2884.4	2907.8	2922.1	2939.0	2949.4	2954.6
2875.3	7.5°	2883.1	2897.4	2936.4	2961.1	3001.4	3034.0	3056.1	3079.5	3084.7	3099.0
2967.6	10°	2981.9	2998.8	3043.1	3089.9	3138.0	3178.3	3199.1	3216.0	3222.5	3225.1
3086.0	12.5°	3095.1	3119.8	3177.0	3234.2	3284.9	3320.1	3325.3	3321.4	3303.2	3287.5
3231.6	15°	3234.2	3256.3	3320.1	3382.5	3431.9	3438.4	3405.9	3385.1	3363.0	3359.1
3394.2	17.5°	3400.7	3412.4	3470.9	3532.0	3535.9	3513.8	3465.7	3446.2	3425.4	3411.1
3606.2	20°	3594.5	3590.6	3632.2	3658.2	3630.9	3563.2	3490.4	3457.9	3437.1	3420.2
3866.3	22.5°	3825.9	3796.0	3790.8	3784.3	3711.5	3569.7	3470.9	3429.3	3396.8	3373.4
4229.1	25°	4162.8	4048.3	3969.0	3924.8	3760.9	3534.6	3408.5	3316.2	3255.0	3214.7
4672.5	27.5°	4584.1	4391.6	4191.4	4083.4	3760.9	3463.1	3257.6	3108.1	3008.0	2966.3
5101.7	30°	4985.9	4784.4	4489.2	4274.6	3751.8	3346.1	3014.5	2806.4	2689.3	2647.7
5468.4	32.5°	5329.3	5109.5	4805.2	4484.0	3729.7	3156.2	2712.7	2482.6	2369.4	2320.0
5831.2	35°	5647.9	5413.8	5122.5	4714.1	3671.2	2877.9	2381.1	2205.6	2079.4	2000.1
6200.6	37.5°	5974.3	5696.0	5422.9	4922.2	3565.8	2552.8	2126.2	1976.7	1828.4	1721.8
6593.3	40°	6329.3	5996.4	5744.1	5045.8	3392.9	2243.3	1928.6	1792.0	1634.7	1521.5
7045.9	42.5°	6744.2	6356.6	6101.7	5109.5	3156.2	2023.5	1799.8	1665.9	1517.6	1425.3
7530.9	45°	7177.2	6753.3	6428.1	5108.2	2892.2	1920.8	1758.2	1625.6	1461.7	1365.5
8029.0	47.5°	7631.1	7168.1	6710.3	5025.0	2663.3	1935.1	1734.8	1538.4	1357.7	1264.0
8532.3	50°	8086.2	7622.0	6983.4	4868.9	2565.8	1903.9	1647.7	1416.2	1202.9	1118.4
9004.3	52.5°	8537.5	8104.4	7218.8	4646.5	2467.0	1788.1	1535.8	1257.5	1139.2	1080.7
9492.0	55°	8991.3	8581.7	7475.0	4322.7	2219.9	1652.9	1348.6	1197.7	1088.5	1035.2
9969.3	57.5°	9446.5	9133.1	7718.2	3998.9	1909.1	1486.4	1245.8	1124.9	1037.8	992.2
10368.5	60°	9919.9	9763.8	7969.2	3701.1	1602.2	1273.1	1170.4	1066.4	977.9	927.2
10752.2	62.5°	10407.5	10458.3	8165.6	3317.5	1320.0	1143.1	1102.8	996.1	910.3	862.2
11069.5	65°	10899.1	11128.0	8294.3	2785.6	1070.3	1019.6	1030.0	919.4	832.3	790.7
11302.2	67.5°	11269.7	11610.5	8257.9	2108.0	877.8	902.5	938.9	838.8	756.9	724.4
11264.5	70°	11311.3	11553.2	7899.0	1443.5	734.8	788.1	837.5	759.5	674.9	651.5
10733.9	72.5°	10757.4	10773.0	6898.9	942.8	621.6	691.8	730.9	678.8	596.9	573.5
9390.6	75°	9304.7	8909.4	5065.3	621.6	520.2	594.3	630.7	594.3	515.0	520.2
7026.4	77.5°	7049.8	6309.8	3075.6	442.2	434.4	499.4	548.8	522.8	455.2	511.1
3533.3	80°	3632.2	3413.7	1372.0	330.3	343.3	399.2	451.3	417.4	360.2	343.3
789.4	82.5°	832.3	967.5	541.0	236.7	248.4	287.4	344.6	313.4	258.8	218.5
329.0	85°	291.3	318.6	239.3	148.3	145.7	179.5	234.1	209.4	175.6	140.4
139.1	87.5°	92.3	120.9	89.7	59.8	62.4	80.6	107.9	98.8	81.9	53.3
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

180°
2762.2
2837.6
2957.2
3093.8
3218.6
3287.5
3359.1
3412.4
3421.5
3381.2
3230.3
2987.1
2672.4
2344.7
2026.1
1750.4
1543.6
1443.5
1381.1
1277.0
1123.6
1080.7
1030.0
984.4
923.3
860.9
789.4
725.7
652.8
572.2
502.0
450.0
313.4
215.9
148.3
55.9
0.0

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