

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: P941477

Luminaire Tested: **GALN-SB5A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23989 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

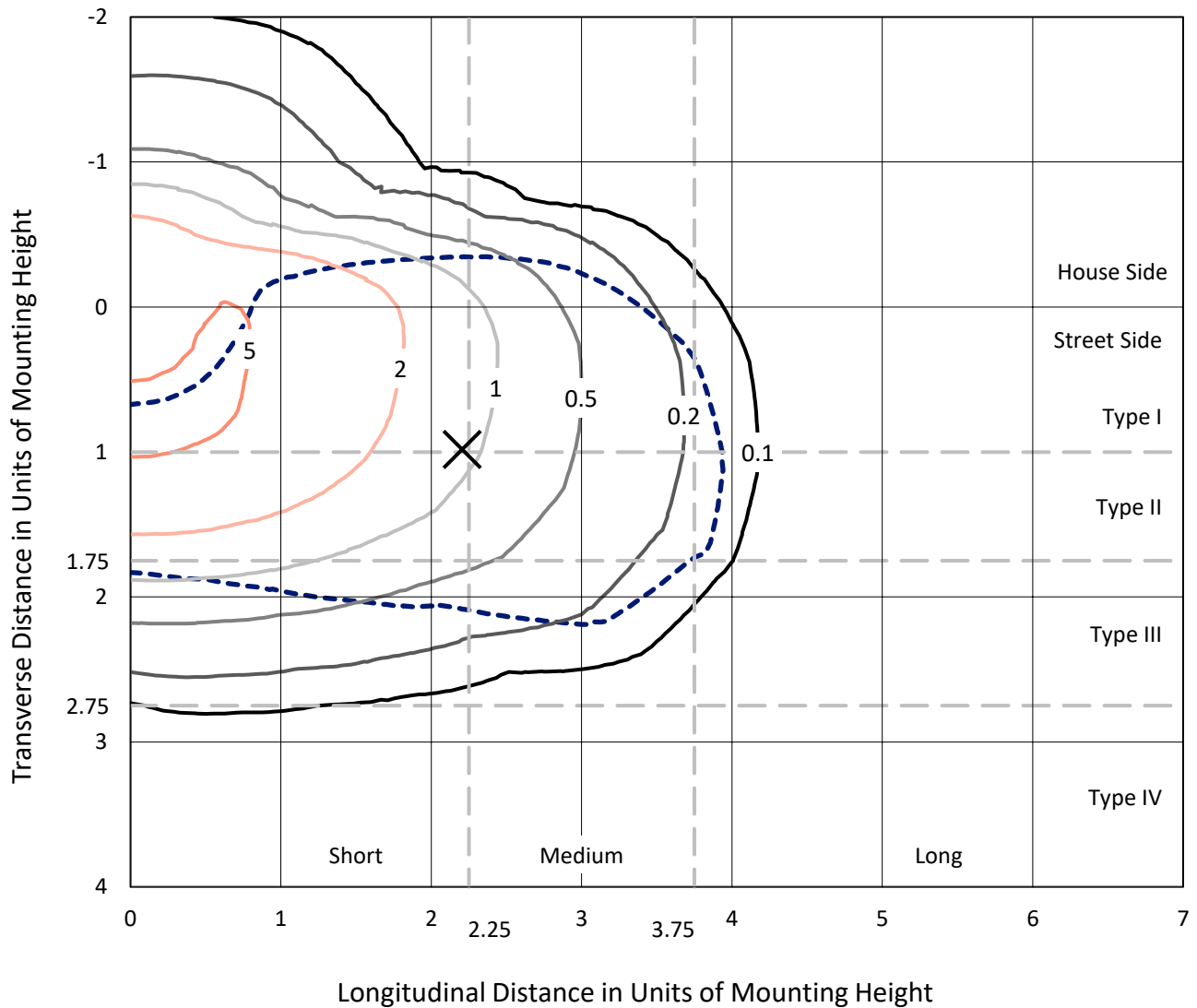
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

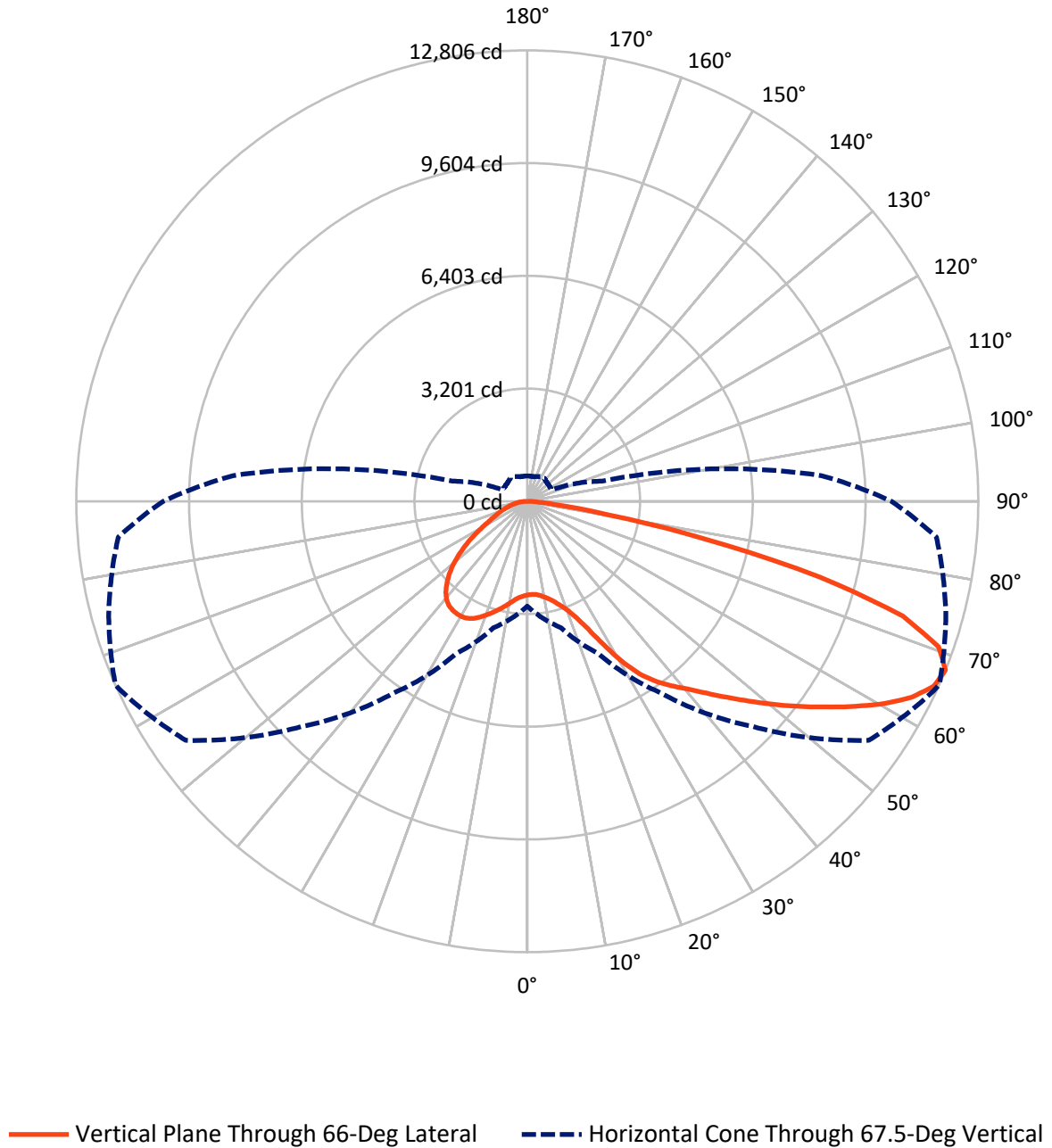
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5964.8	0.0	5964.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18024.2	0.0	18024.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	23989.0	0.0	23989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.1
10°-20°	871.6	3.6
20°-30°	1679.9	7.0
30°-40°	2945.4	12.3
40°-50°	4378.9	18.3
50°-60°	5550.7	23.1
60°-70°	5431.2	22.6
70°-80°	2590.7	10.8
80°-90°	276.9	1.2
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°	23989.0	100.0
0°-180°	23989.0	100.0

Coefficient of Utilization



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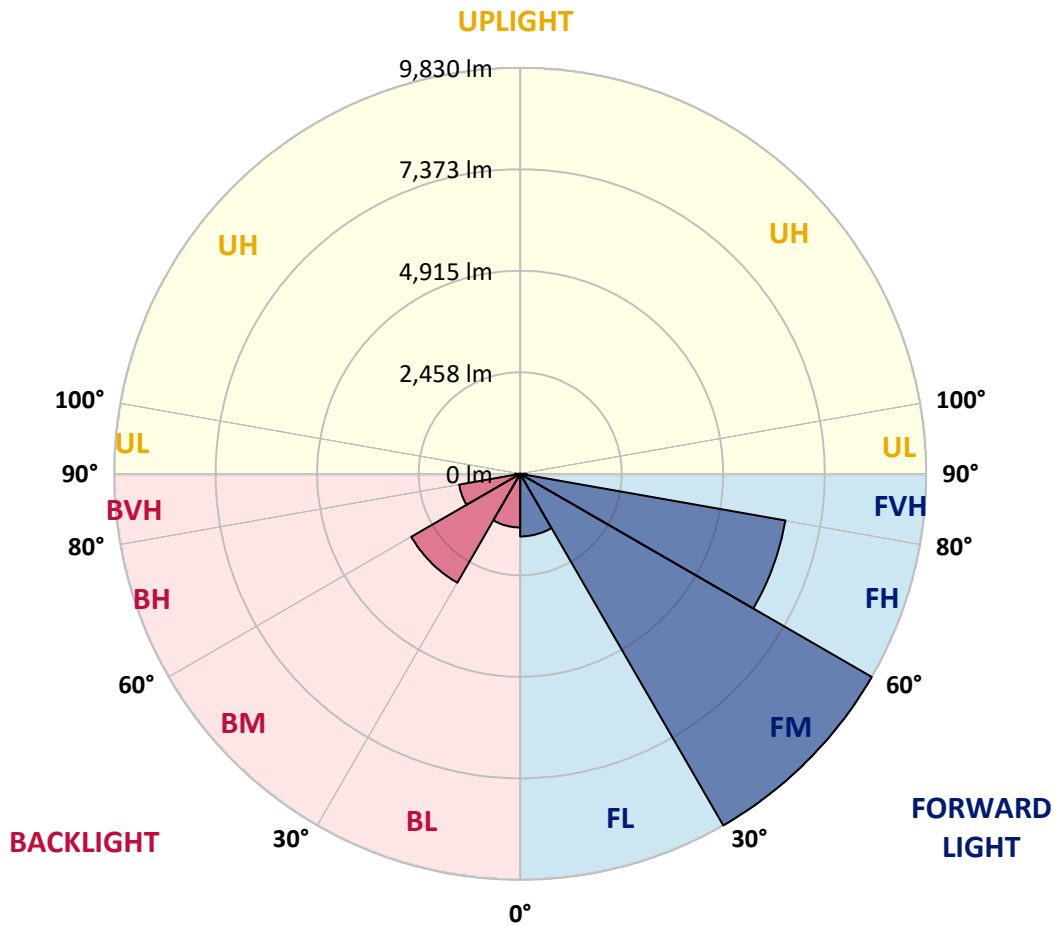
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.9	6.3			
FM (30°-60°)	9830.5	41.0			
FH (60°-80°)	6520.9	27.2			G3/7500
FVH (80°-90°)	157.0	0.7			G2/225
BL (0°-30°)	1299.3	5.4	B3/2500		
BM (30°-60°)	3044.5	12.7	B3/5000		
BH (60°-80°)	1501.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	119.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7
2.5°	2633.0	2648.1	2644.3	2638.0	2636.7	2639.3	2643.1	2646.8	2645.6	2651.9
5°	2625.4	2640.5	2639.3	2639.3	2644.3	2654.4	2660.7	2667.0	2660.7	2668.3
7.5°	2630.4	2641.8	2646.8	2651.9	2664.5	2683.4	2698.5	2712.4	2704.8	2713.6
10°	2694.7	2703.6	2708.6	2708.6	2717.4	2738.8	2754.0	2779.2	2772.9	2786.7
12.5°	2811.9	2820.8	2820.8	2815.7	2822.0	2835.9	2840.9	2868.7	2857.3	2880.0
15°	2955.6	2973.3	2959.4	2950.6	2953.1	2967.0	2965.7	2987.1	2975.8	2994.7
17.5°	3114.4	3137.1	3114.4	3113.2	3108.1	3123.3	3124.5	3143.4	3123.3	3137.1
20°	3302.2	3333.7	3314.8	3321.1	3309.8	3316.1	3322.4	3350.1	3318.6	3328.7
22.5°	3566.9	3604.7	3584.6	3608.5	3601.0	3595.9	3594.7	3643.8	3594.7	3598.4
25°	3952.6	3998.0	3962.7	3995.5	3995.5	4011.8	4030.7	4093.8	4011.8	3987.9
27.5°	4522.3	4567.7	4498.4	4518.5	4512.2	4552.6	4532.4	4688.7	4600.4	4561.4
30°	5208.0	5288.6	5157.5	5152.5	5146.2	5210.5	5239.5	5342.8	5253.3	5214.3
32.5°	5949.1	6033.5	5877.2	5831.9	5807.9	5847.0	5823.0	5906.2	5844.5	5784.0
35°	6733.0	6816.2	6667.5	6579.3	6483.5	6401.6	6315.8	6337.3	6279.3	6187.3
37.5°	7474.2	7626.7	7469.1	7374.6	7198.1	7038.1	6798.6	6699.0	6644.8	6560.4
40°	8229.1	8316.1	8196.4	8115.7	7924.1	7673.3	7290.1	7079.6	7006.5	6924.6
42.5°	8785.0	8868.2	8803.9	8748.4	8598.4	8307.3	7811.9	7548.5	7442.6	7350.6
45°	9226.1	9287.9	9247.5	9267.7	9203.4	8921.1	8352.6	8051.4	7941.8	7829.6
47.5°	9403.8	9469.4	9533.6	9653.4	9763.0	9555.1	8933.7	8595.9	8479.9	8365.3
50°	9383.7	9450.5	9637.0	9891.6	10231.9	10162.6	9546.2	9175.7	9068.6	8937.5
52.5°	9222.3	9297.9	9537.4	9960.9	10502.9	10617.6	10170.1	9774.4	9673.5	9517.3
55°	8798.8	8844.2	9203.4	9803.4	10567.2	10935.2	10781.4	10412.1	10311.3	10093.3
57.5°	8013.6	8079.1	8602.2	9378.6	10405.8	11150.7	11318.4	11082.7	10985.6	10671.8
60°	6988.9	7093.5	7692.2	8665.2	9994.9	11149.5	11806.1	11741.9	11661.2	11241.5
62.5°	5829.3	5950.3	6526.3	7656.9	9276.5	10833.1	12111.2	12293.9	12252.3	11767.1
65°	4476.9	4560.1	5133.6	6352.4	8158.5	10153.8	12146.4	12670.8	12678.3	12166.6
67.5°	2980.8	3220.3	3718.2	4766.8	6661.2	9043.3	11836.4	12732.5	12805.6	12304.0
70°	1454.5	1769.6	2257.4	3098.1	4766.8	7340.5	11025.9	12225.8	12388.4	11903.2
72.5°	603.7	705.8	971.8	1528.9	2736.3	4953.4	9397.5	10852.0	11153.2	10547.0
75°	407.1	441.1	555.8	784.0	1246.5	2442.6	6777.2	8091.7	8577.0	7965.7
77.5°	313.8	335.3	404.6	548.3	741.1	923.9	3627.4	4876.5	5127.3	4746.7
80°	247.0	263.4	302.5	399.5	525.6	494.1	1236.4	2209.5	2354.4	1975.0
82.5°	214.3	220.6	216.8	271.0	349.1	288.6	405.8	815.5	899.9	652.9
85°	155.0	172.7	180.2	167.6	185.3	146.2	166.4	288.6	317.6	283.6
87.5°	63.0	93.3	114.7	108.4	68.1	41.6	51.7	84.4	97.1	105.9
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°
2660.7	0°	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7
2662.0	2.5°	2663.2	2672.0	2678.3	2685.9	2690.9	2698.5	2713.6	2722.5	2723.7	2730.0
2682.1	5°	2687.2	2699.8	2713.6	2733.8	2756.5	2775.4	2804.4	2824.5	2832.1	2838.4
2731.3	7.5°	2738.8	2756.5	2781.7	2817.0	2849.8	2875.0	2910.3	2934.2	2958.2	2967.0
2809.4	10°	2815.7	2840.9	2877.5	2925.4	2960.7	2993.4	3030.0	3050.2	3074.1	3084.2
2902.7	12.5°	2911.5	2938.0	2985.9	3052.7	3085.5	3108.1	3120.7	3115.7	3120.7	3129.6
3014.9	15°	3021.2	3050.2	3104.4	3176.2	3198.9	3178.7	3151.0	3125.8	3122.0	3124.5
3151.0	17.5°	3151.0	3172.4	3235.4	3295.9	3279.6	3196.4	3135.9	3095.5	3075.4	3069.1
3324.9	20°	3332.5	3332.5	3384.2	3422.0	3312.3	3171.2	3076.6	3011.1	2969.5	2951.8
3561.9	22.5°	3553.1	3532.9	3565.7	3539.2	3306.0	3100.6	2969.5	2856.1	2793.0	2767.8
3893.4	25°	3832.9	3808.9	3800.1	3636.2	3260.6	2988.4	2775.4	2638.0	2582.6	2568.7
4371.1	27.5°	4255.1	4194.6	4079.9	3689.2	3177.5	2811.9	2548.5	2421.2	2389.7	2391.0
4984.9	30°	4817.2	4696.2	4415.2	3698.0	3041.3	2562.4	2316.6	2225.9	2210.7	2217.0
5500.4	32.5°	5337.8	5223.1	4758.0	3657.7	2832.1	2317.9	2108.6	2048.1	2025.5	2033.0
5893.6	35°	5746.1	5714.6	5075.6	3601.0	2575.0	2088.5	1922.1	1870.4	1826.3	1816.2
6264.2	37.5°	6131.8	6119.2	5313.8	3521.5	2320.4	1925.9	1772.1	1704.1	1639.8	1604.5
6673.8	40°	6555.3	6542.7	5470.1	3399.3	2094.8	1784.7	1637.3	1547.8	1468.4	1404.1
7137.6	42.5°	7031.8	6957.4	5544.5	3224.1	1903.2	1665.0	1527.6	1406.6	1302.0	1242.8
7662.0	45°	7552.3	7384.7	5543.2	3001.0	1741.9	1555.3	1410.4	1239.0	1141.9	1086.5
8200.1	47.5°	8104.3	7793.0	5475.2	2754.0	1585.6	1434.3	1228.9	1097.8	1033.5	999.5
8785.0	50°	8674.0	8174.9	5359.2	2470.4	1425.5	1296.9	1115.5	1026.0	976.8	945.3
9364.7	52.5°	9209.7	8521.5	5219.3	2149.0	1262.9	1163.3	1065.0	995.7	944.0	908.7
9926.9	55°	9707.6	8820.3	5021.4	1820.0	1130.6	1073.9	1041.1	983.1	923.9	882.3
10497.8	57.5°	10150.0	9014.4	4679.9	1511.2	1036.0	1012.1	1015.9	961.7	893.6	858.3
11060.0	60°	10518.0	9156.8	4174.4	1225.1	959.2	951.6	976.8	921.3	841.9	801.6
11535.1	62.5°	10738.6	9154.3	3554.3	1003.3	893.6	896.1	925.1	870.9	790.3	752.5
11783.4	65°	10719.7	8929.9	2873.7	858.3	830.6	833.1	870.9	815.5	747.4	724.7
11658.7	67.5°	10340.3	8382.9	2204.4	763.8	761.3	772.6	816.7	777.7	720.9	718.4
10915.0	70°	9313.1	7247.3	1588.1	688.2	689.4	705.8	763.8	753.7	707.1	712.1
9176.9	72.5°	7467.8	5525.6	1066.3	608.8	610.0	636.5	713.4	734.8	693.2	760.0
6511.2	75°	4973.5	3445.9	685.7	524.3	525.6	559.6	669.3	698.3	655.4	757.5
3387.9	77.5°	2389.7	1549.0	496.6	441.1	441.1	472.6	578.5	625.2	558.4	588.6
1089.0	80°	825.6	582.3	390.7	355.4	347.9	369.3	487.8	542.0	481.5	443.7
355.4	82.5°	325.2	302.5	313.8	276.0	250.8	264.7	379.4	447.4	354.2	320.1
200.4	85°	186.5	196.6	221.8	182.8	144.9	162.6	278.5	321.4	267.2	235.7
65.5	87.5°	50.4	69.3	102.1	94.5	65.5	69.3	132.3	177.7	153.8	118.5
0.0	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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180°
2660.7
2728.8
2837.2
2968.2
3089.2
3132.1
3133.3
3077.9
2948.1
2764.0
2571.2
2394.8
2238.5
2043.1
1823.8
1605.7
1410.4
1246.5
1083.9
991.9
934.0
893.6
865.9
835.6
784.0
741.1
723.5
722.2
710.9
770.1
763.8
539.4
415.9
318.9
240.7
122.3
0.0

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