

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: P941672

Luminaire Tested: **GALN-SB5B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24519 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

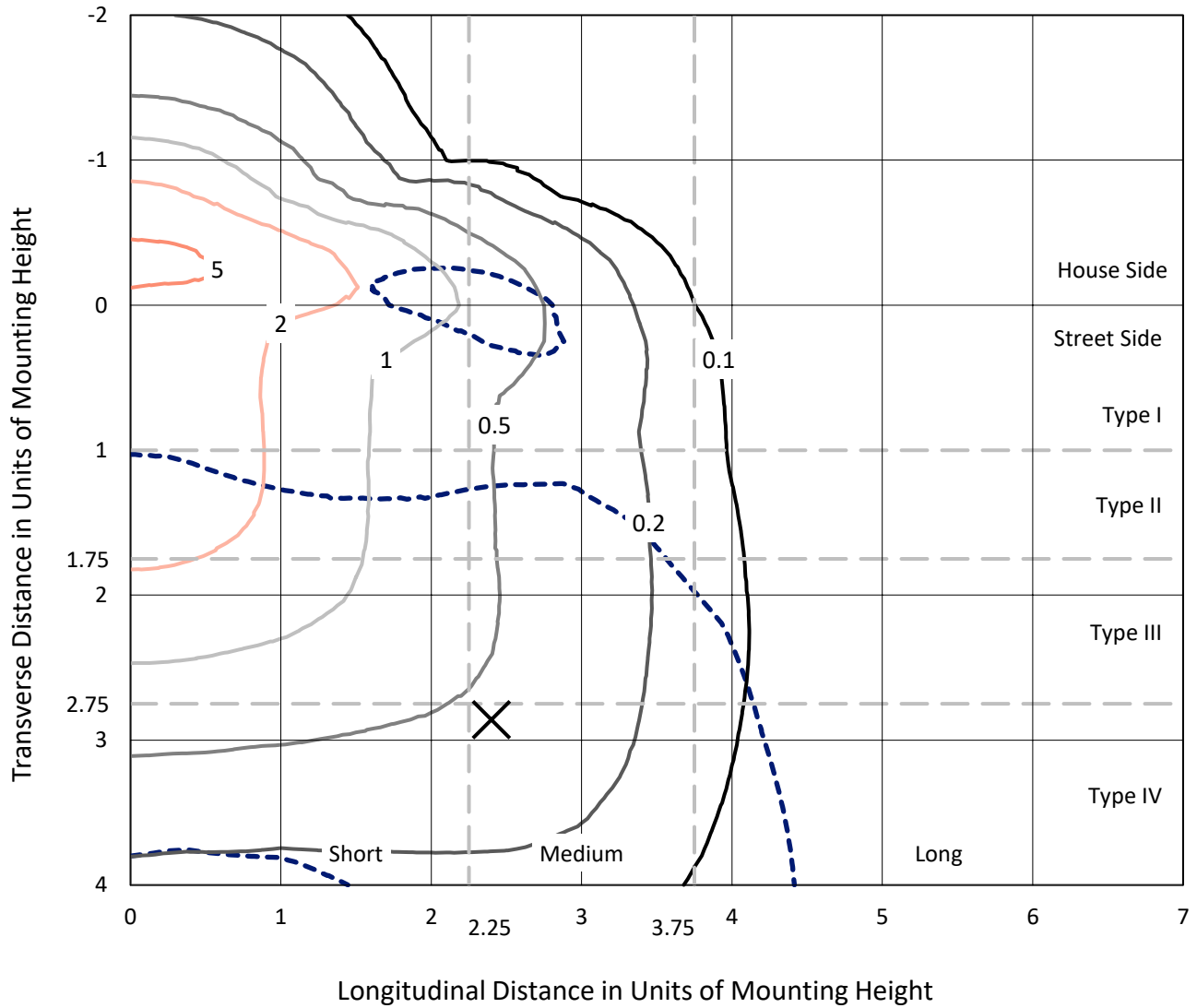
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

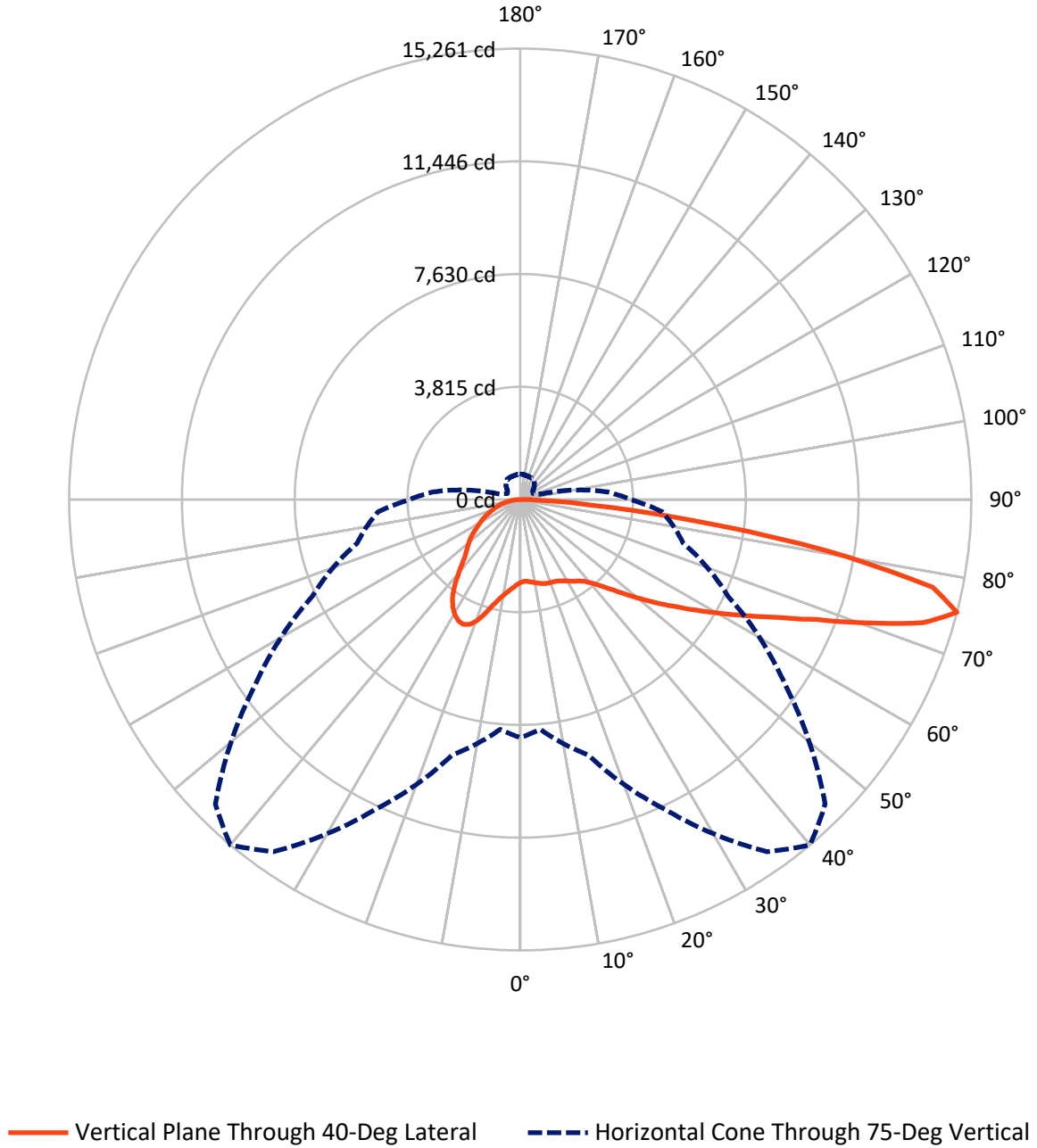
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7596.8	0.0	7596.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16922.2	0.0	16922.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	24519.0	0.0	24519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	1.1
10°-20°	939.7	3.8
20°-30°	1715.7	7.0
30°-40°	2433.4	9.9
40°-50°	3285.8	13.4
50°-60°	4420.3	18.0
60°-70°	5610.3	22.9
70°-80°	5091.7	20.8
80°-90°	742.2	3.0
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°	24519.0	100.0
0°-180°	24519.0	100.0

Coefficient of Utilization



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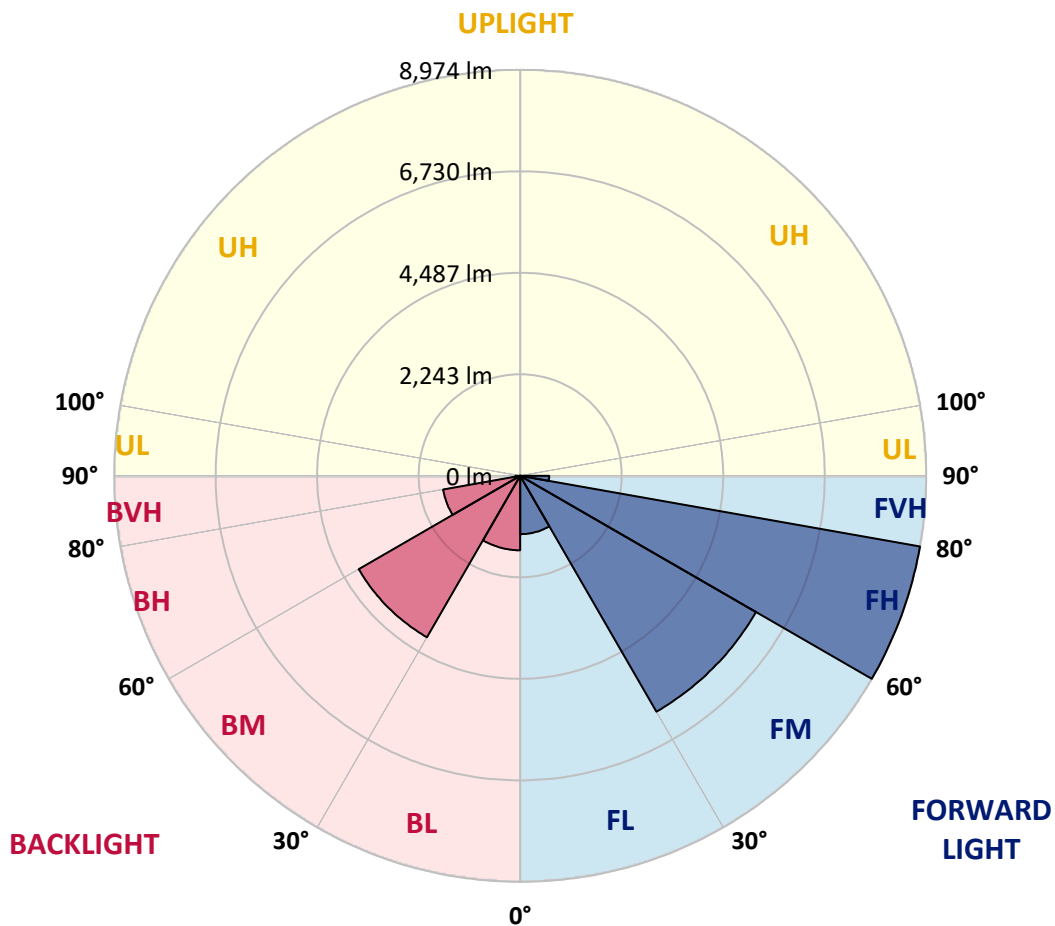
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1289.7	5.3			
FM (30°-60°)	6018.9	24.5			
FH (60°-80°)	8973.6	36.6			G4/12000
FVH (80°-90°)	640.0	2.6			G4/750
BL (0°-30°)	1645.5	6.7	B3/2500		
BM (30°-60°)	4120.6	16.8	B3/5000		
BH (60°-80°)	1728.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	102.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8
2.5°	2760.9	2776.5	2772.6	2767.4	2767.4	2768.7	2767.4	2776.5	2785.6	2794.7
5°	2789.5	2805.1	2797.3	2790.8	2785.6	2784.3	2780.4	2779.1	2784.3	2796.0
7.5°	2845.4	2861.0	2849.3	2837.6	2827.2	2822.0	2816.8	2809.0	2805.1	2811.6
10°	2907.8	2923.4	2909.1	2888.3	2871.4	2864.9	2859.7	2851.9	2846.7	2850.6
12.5°	2970.2	2985.8	2966.3	2937.7	2915.6	2911.7	2905.2	2902.6	2901.3	2900.0
15°	3028.8	3041.8	3017.1	2983.2	2959.8	2953.3	2946.8	2950.7	2957.2	2965.0
17.5°	3074.3	3087.3	3050.9	3006.7	2984.5	2981.9	2978.0	2991.0	3009.3	3028.8
20°	3115.9	3128.9	3082.1	3022.3	2996.2	2996.2	2997.5	3024.9	3050.9	3079.5
22.5°	3174.4	3184.8	3127.6	3045.7	3008.0	3010.6	3021.0	3048.3	3080.8	3119.8
25°	3261.5	3269.3	3199.1	3089.9	3047.0	3054.8	3063.9	3076.9	3108.1	3153.6
27.5°	3402.0	3408.5	3316.2	3167.9	3102.9	3115.9	3128.9	3119.8	3134.1	3173.1
30°	3599.7	3603.6	3486.5	3290.2	3197.8	3204.3	3206.9	3169.2	3141.9	3173.1
32.5°	3833.7	3832.4	3693.3	3438.4	3305.8	3299.3	3277.1	3203.0	3139.3	3166.6
35°	4196.6	4182.3	4002.8	3646.5	3428.0	3387.7	3335.7	3240.7	3152.3	3160.1
37.5°	4797.4	4753.2	4504.8	3987.2	3610.1	3507.3	3430.6	3301.9	3180.9	3157.5
40°	5474.9	5419.0	5145.9	4454.1	3883.2	3718.0	3594.5	3389.0	3227.7	3169.2
42.5°	6278.6	6199.3	5905.4	5004.1	4229.1	3989.8	3803.8	3499.5	3296.7	3206.9
45°	7265.6	7160.3	6744.2	5624.5	4664.7	4346.1	4097.7	3667.3	3402.0	3279.7
47.5°	8263.1	8289.1	7697.4	6334.5	5187.5	4785.7	4465.8	3919.6	3555.4	3396.8
50°	9323.0	9341.2	8645.4	7121.3	5780.5	5282.4	4879.3	4201.8	3768.7	3563.2
52.5°	10150.0	10152.6	9506.3	7944.5	6398.2	5828.6	5325.4	4524.3	4015.8	3784.3
55°	10667.6	10661.1	10109.7	8723.5	7108.3	6402.1	5819.5	4891.0	4317.5	4044.4
57.5°	11043.5	11024.0	10525.9	9393.2	7865.1	7079.7	6378.7	5307.2	4673.8	4353.9
60°	11186.5	11174.8	10808.1	9971.9	8661.0	7828.7	7023.8	5772.7	5078.3	4719.4
62.5°	11241.1	11263.2	11085.1	10532.4	9512.8	8658.4	7732.5	6329.3	5533.4	5132.9
65°	11433.6	11473.9	11437.5	11265.8	10475.2	9629.9	8672.7	6991.2	6030.2	5576.3
67.5°	11814.6	11854.9	11870.6	12143.6	11650.8	10840.6	9845.7	7815.7	6611.5	6036.7
70°	11805.5	11793.8	12069.5	12842.0	13122.9	12516.9	11427.1	8830.1	7304.7	6419.0
72.5°	10745.7	10652.0	11303.6	12834.2	14347.9	14267.3	13358.3	10138.3	7902.9	6465.9
75°	8061.5	7811.8	8962.7	11566.2	14552.1	15260.8	14585.9	10949.8	7761.1	5712.9
77.5°	3447.5	3196.5	4552.9	8562.2	13024.1	14266.0	13459.7	9553.1	6195.4	3777.8
80°	902.5	901.2	1375.9	3881.9	8857.4	10535.0	9242.3	6169.4	3539.8	1349.9
82.5°	373.2	364.1	505.9	1509.8	4327.9	5911.9	4824.7	2751.8	1278.3	365.4
85°	139.1	137.8	245.8	521.5	1526.7	2438.4	1764.7	703.5	318.6	178.2
87.5°	39.0	37.7	53.3	180.8	371.9	564.4	301.7	115.7	89.7	70.2
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°
2803.8	0°	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8
2809.0	2.5°	2812.9	2819.4	2831.1	2840.2	2851.9	2864.9	2883.1	2894.8	2906.5	2914.3
2815.5	5°	2824.6	2838.9	2868.8	2898.7	2933.8	2966.3	3004.1	3031.4	3053.5	3060.0
2838.9	7.5°	2850.6	2874.0	2924.7	2975.4	3031.4	3084.7	3139.3	3186.1	3223.8	3238.1
2880.5	10°	2896.1	2927.3	2998.8	3070.4	3144.5	3226.4	3296.7	3364.3	3417.6	3439.7
2929.9	12.5°	2953.3	2992.3	3086.0	3184.8	3287.5	3400.7	3491.7	3574.9	3641.3	3671.2
2998.8	15°	3027.5	3078.2	3197.8	3330.5	3481.3	3638.7	3754.4	3846.7	3920.9	3957.3
3070.4	17.5°	3108.1	3175.7	3326.6	3526.8	3742.7	3949.5	4084.7	4152.4	4229.1	4264.2
3136.7	20°	3186.1	3269.3	3485.2	3776.5	4063.9	4283.7	4392.9	4411.1	4416.3	4420.2
3199.1	22.5°	3266.7	3378.6	3684.2	4091.2	4399.4	4551.6	4567.2	4489.2	4379.9	4329.2
3260.2	25°	3355.2	3503.4	3944.3	4438.5	4688.1	4706.3	4586.7	4396.8	4190.1	4095.1
3309.7	27.5°	3441.0	3647.8	4256.4	4770.1	4896.2	4736.3	4478.8	4209.6	3959.9	3859.7
3344.8	30°	3526.8	3812.9	4601.0	5060.1	4991.1	4662.1	4308.4	4008.0	3757.0	3651.7
3376.0	32.5°	3614.0	4005.4	4997.6	5269.4	4974.2	4504.8	4096.4	3781.7	3560.6	3450.1
3403.3	35°	3712.8	4242.1	5373.5	5383.9	4861.1	4273.3	3816.8	3511.2	3318.8	3230.3
3435.8	37.5°	3841.5	4542.5	5705.1	5412.5	4663.4	3933.9	3469.6	3191.3	3032.7	2992.3
3483.9	40°	4001.5	4904.0	5958.7	5367.0	4370.8	3521.6	3089.9	2867.5	2777.8	2786.9
3548.9	42.5°	4209.6	5308.5	6136.8	5249.9	3963.8	3096.4	2757.0	2658.1	2701.0	2737.5
3646.5	45°	4480.1	5728.5	6247.4	5051.0	3503.4	2736.2	2560.6	2584.0	2616.5	2620.4
3803.8	47.5°	4826.0	6153.8	6320.2	4750.6	3034.0	2482.6	2435.8	2441.0	2434.5	2407.1
4039.2	50°	5257.7	6567.3	6385.2	4352.6	2634.7	2323.9	2261.5	2243.3	2153.6	2065.1
4352.6	52.5°	5749.3	6947.0	6412.5	3858.4	2323.9	2191.3	2089.8	1975.4	1807.6	1780.3
4746.7	55°	6295.5	7298.2	6342.3	3251.1	2062.5	2020.9	1867.5	1729.6	1711.4	1688.0
5265.5	57.5°	6948.3	7676.6	6199.3	2573.6	1794.6	1821.9	1672.4	1688.0	1655.5	1619.1
5932.7	60°	7662.3	8068.0	5948.3	1955.9	1517.6	1573.6	1621.7	1620.4	1611.3	1581.4
6636.2	62.5°	8304.7	8325.5	5454.1	1498.1	1274.4	1381.1	1512.4	1511.1	1503.3	1486.4
7371.0	65°	8687.0	8286.5	4629.6	1179.5	1074.2	1222.4	1364.2	1374.6	1375.9	1374.6
7923.7	67.5°	8619.4	7830.0	3498.2	938.9	909.0	1061.2	1217.2	1231.5	1241.9	1244.5
7993.9	70°	7854.7	6827.4	2281.0	749.1	762.1	919.4	1078.1	1092.4	1101.5	1111.9
6936.6	72.5°	6122.5	5019.8	1305.7	606.0	633.3	797.2	940.2	957.1	962.3	981.8
4827.3	75°	3731.0	2952.0	704.8	477.3	520.2	681.4	803.7	823.2	832.3	855.7
2370.7	77.5°	1773.8	1278.3	401.8	371.9	418.7	556.6	678.8	700.9	676.2	689.2
654.1	80°	599.5	474.7	253.6	283.5	319.9	434.4	543.6	565.7	513.7	511.1
217.2	82.5°	209.4	192.5	161.3	188.6	206.8	310.8	410.9	439.6	382.3	381.0
97.5	85°	81.9	78.0	89.7	102.7	123.5	191.2	270.5	284.8	235.4	189.9
28.6	87.5°	16.9	18.2	22.1	23.4	37.7	66.3	97.5	119.6	94.9	80.6
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°
2803.8
2909.1
3062.6
3239.4
3441.0
3671.2
3954.7
4262.9
4430.6
4343.5
4109.4
3871.5
3663.4
3464.4
3249.8
3021.0
2818.1
2771.3
2646.4
2427.9
2076.8
1789.4
1691.9
1612.6
1570.9
1479.9
1374.6
1247.1
1117.1
989.6
858.3
678.8
505.9
362.8
187.3
74.1
0.0

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