

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: P947209

Luminaire Tested: **GALN-SB2C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14239 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

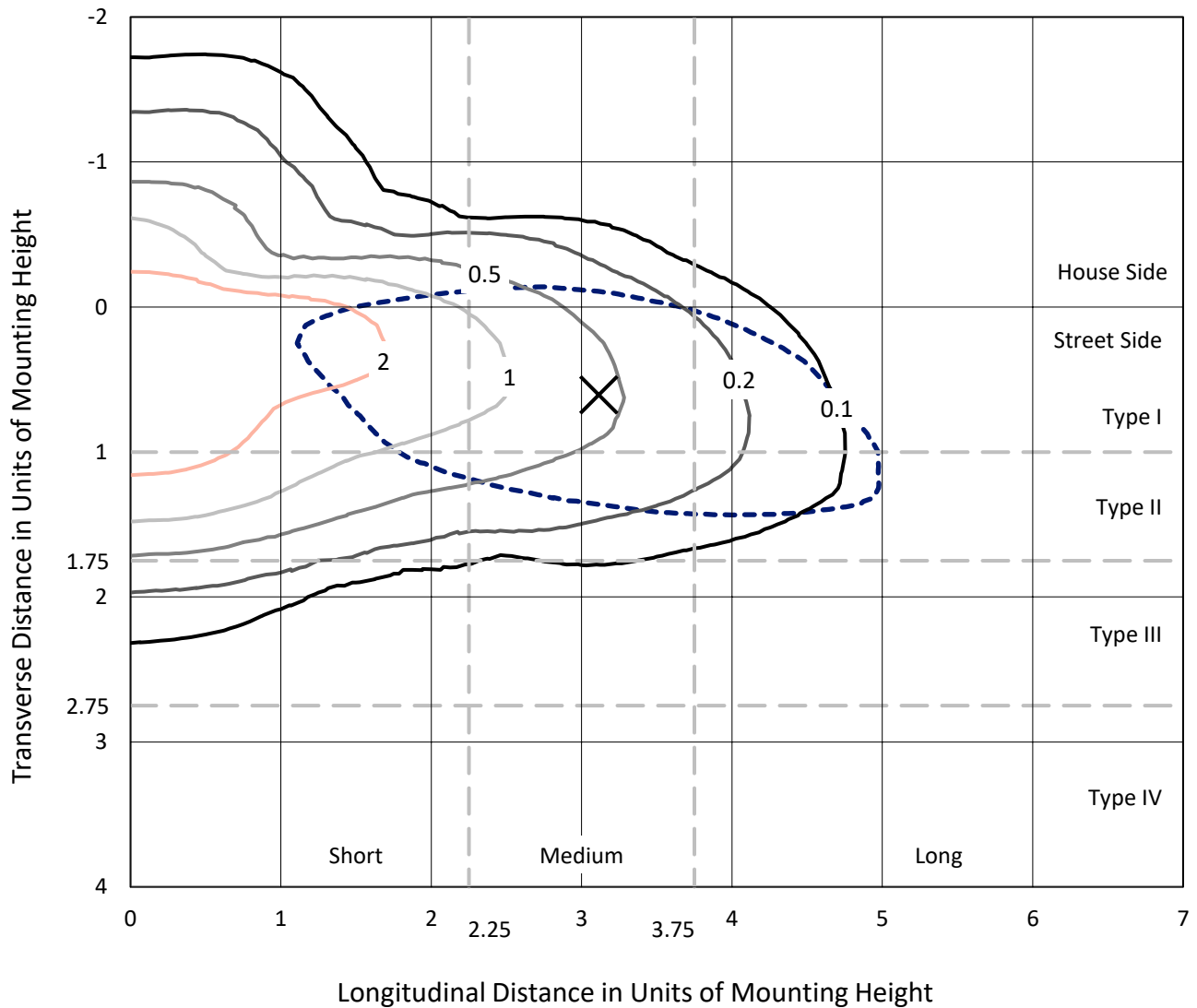
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

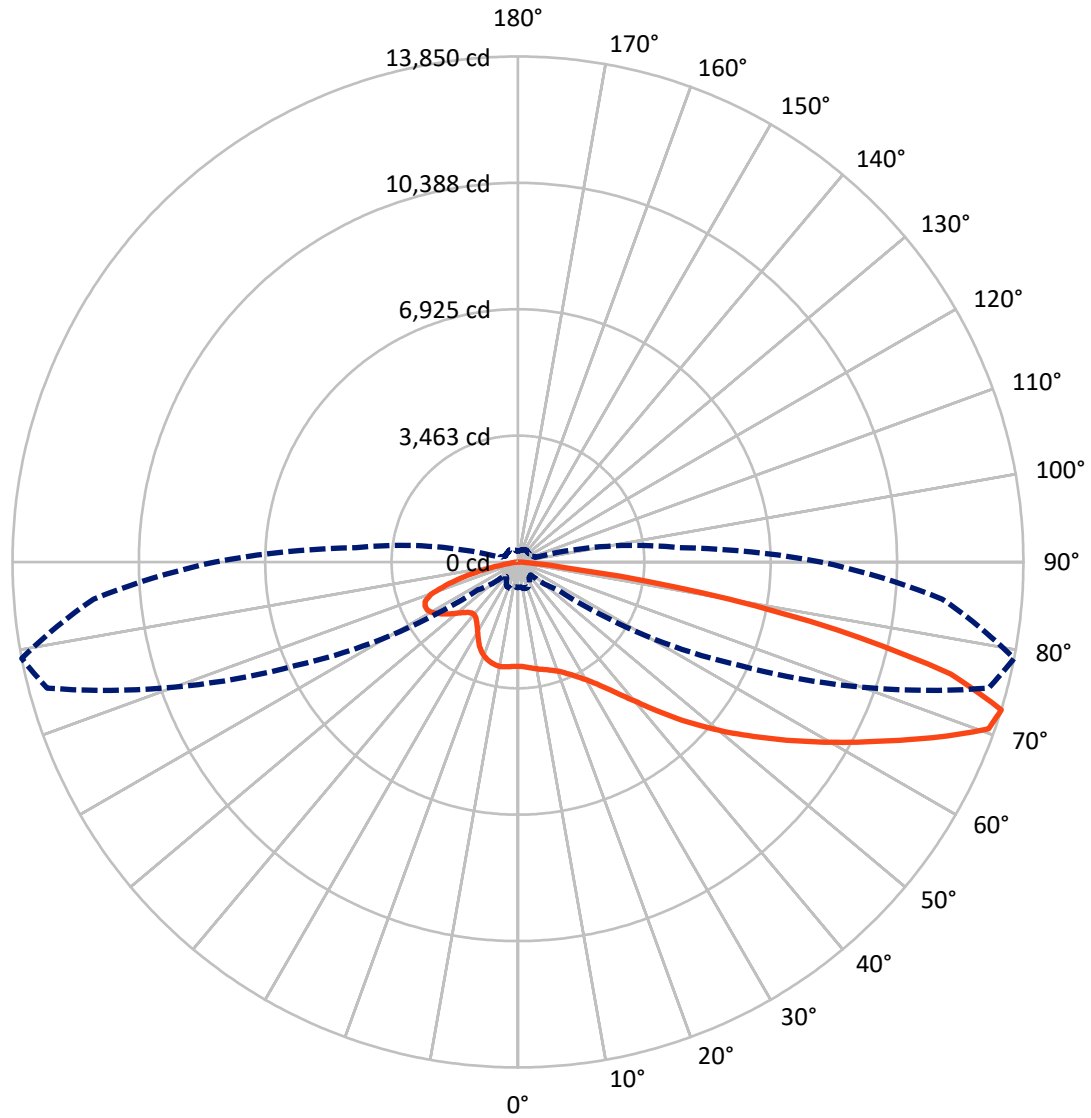
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3133.4	0.0	3133.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11105.6	0.0	11105.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	14239.0	0.0	14239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.8
10°-20°	678.3	4.8
20°-30°	1094.6	7.7
30°-40°	1642.8	11.5
40°-50°	2330.4	16.4
50°-60°	2943.0	20.7
60°-70°	2989.0	21.0
70°-80°	2037.1	14.3
80°-90°	264.3	1.9
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°	14239.0	100.0
0°-180°	14239.0	100.0

Coefficient of Utilization

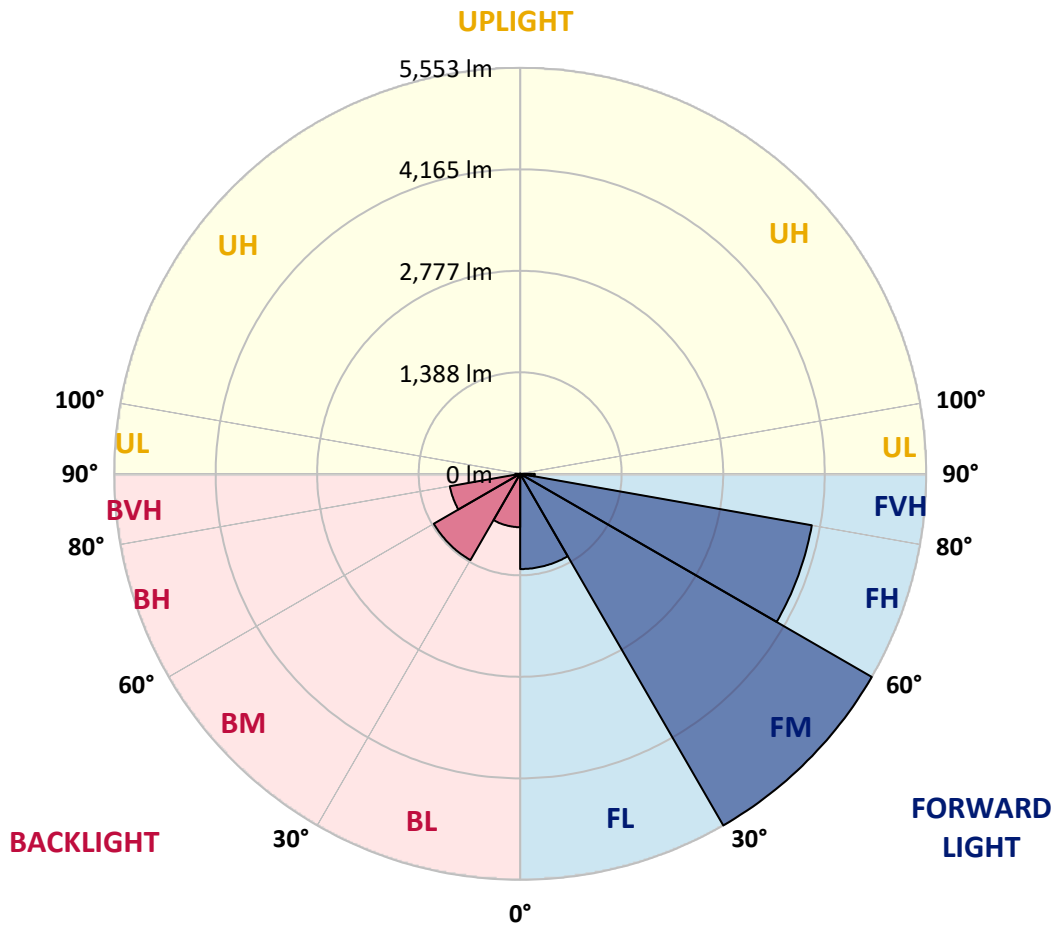


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.5	9.1			
FM (30°-60°)	5553.5	39.0			
FH (60°-80°)	4050.5	28.4			G2/5000
FVH (80°-90°)	199.1	1.4			G2/225
BL (0°-30°)	729.9	5.1	B2/1000		
BM (30°-60°)	1362.7	9.6	B2/2500		
BH (60°-80°)	975.6	6.9	B2/1000		G2/1000
BVH (80°-90°)	65.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3
2.5°	2859.9	2846.3	2854.6	2851.6	2855.3	2859.9	2861.4	2863.6	2871.1	2870.4
5°	2853.8	2840.3	2851.6	2847.8	2857.6	2868.1	2877.2	2885.5	2897.5	2902.8
7.5°	2841.0	2832.0	2843.3	2854.6	2872.7	2888.5	2901.3	2920.1	2937.4	2940.4
10°	2766.5	2759.7	2786.0	2815.4	2865.1	2908.1	2935.9	2957.8	2976.6	2979.6
12.5°	2688.9	2680.6	2710.0	2749.9	2830.5	2908.1	2966.8	2995.4	3012.0	3021.8
15°	2676.1	2669.3	2685.9	2720.5	2787.5	2887.7	2987.9	3040.6	3054.9	3066.2
17.5°	2737.8	2725.0	2731.8	2743.9	2783.0	2868.9	3004.5	3091.8	3113.7	3125.7
20°	2880.9	2862.9	2852.3	2828.2	2821.4	2871.9	3003.0	3153.6	3182.2	3197.3
22.5°	3071.5	3059.4	3036.8	2975.8	2909.6	2908.8	3031.6	3232.7	3286.2	3300.5
25°	3302.0	3283.9	3255.3	3172.4	3045.1	2981.9	3079.8	3333.6	3423.2	3427.0
27.5°	3567.1	3540.0	3500.8	3391.6	3219.9	3096.4	3153.6	3449.6	3580.6	3579.1
30°	3846.5	3819.4	3778.0	3645.4	3429.3	3250.8	3256.0	3574.6	3767.4	3759.2
32.5°	4050.6	4030.3	4022.0	3919.6	3670.3	3433.0	3373.5	3713.2	3997.9	3990.4
35°	4207.3	4180.9	4190.7	4138.8	3933.1	3637.1	3517.4	3878.2	4278.1	4277.3
37.5°	4362.5	4339.1	4347.4	4312.7	4176.4	3896.2	3692.9	4080.0	4625.3	4641.9
40°	4504.1	4479.2	4512.3	4480.0	4365.5	4171.9	3892.5	4308.2	5027.5	5059.2
42.5°	4589.2	4569.6	4624.6	4625.3	4529.7	4404.6	4111.6	4559.8	5493.0	5563.8
45°	4618.5	4611.8	4694.6	4711.9	4675.0	4539.5	4309.0	4834.0	5994.6	6121.1
47.5°	4586.9	4574.1	4688.6	4752.6	4782.0	4602.7	4472.4	5130.7	6506.8	6692.1
50°	4427.2	4402.4	4572.6	4707.4	4812.1	4644.1	4637.4	5473.4	7089.0	7291.6
52.5°	4140.3	4121.4	4315.0	4549.2	4745.8	4664.5	4822.7	5847.7	7641.8	7903.9
55°	3773.5	3748.6	3961.8	4267.6	4580.9	4657.7	5007.9	6266.5	8294.1	8560.0
57.5°	3192.0	3142.3	3411.9	3773.5	4312.0	4649.4	5200.8	6683.0	8956.9	9275.5
60°	2343.9	2270.1	2600.8	3029.3	3786.3	4568.8	5439.5	7150.0	9752.3	10039.2
62.5°	1364.8	1321.8	1538.0	1937.9	2853.8	4094.3	5573.6	7693.0	10534.1	10835.3
65°	1059.7	1047.7	1066.5	1097.4	1588.5	3065.5	5160.1	8222.5	11528.3	11739.2
67.5°	969.4	960.3	968.6	910.6	805.9	1707.5	4082.3	8356.6	12593.3	12721.3
70°	861.6	851.1	878.2	828.5	634.2	776.5	2637.7	7870.0	13440.6	13680.9
72.5°	702.0	689.9	753.2	730.6	534.0	498.6	1324.9	6713.9	13351.7	13850.4
75°	539.3	532.5	607.8	626.7	435.3	392.4	635.7	4990.6	11749.7	12252.1
77.5°	418.8	413.5	451.9	520.5	351.0	304.3	390.9	3165.6	8854.5	8942.6
80°	314.1	299.0	334.4	403.0	273.4	222.2	265.1	1846.1	5596.9	5073.5
82.5°	196.6	189.0	218.4	268.9	192.8	152.9	172.5	1019.8	2243.0	1321.1
85°	112.2	109.2	119.0	153.7	104.7	88.1	98.7	450.4	409.7	281.7
87.5°	45.2	43.7	54.2	68.5	38.4	32.4	34.6	108.5	90.4	83.6
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°
2858.3	0°	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3
2869.6	2.5°	2866.6	2866.6	2856.1	2839.5	2820.7	2808.6	2789.1	2783.8	2763.4	2757.4
2895.3	5°	2901.3	2895.3	2862.9	2816.2	2752.1	2693.4	2628.6	2587.9	2530.7	2510.4
2945.7	7.5°	2945.0	2928.4	2872.7	2770.2	2636.2	2504.3	2367.3	2263.3	2163.9	2128.5
2987.1	10°	2984.9	2961.5	2866.6	2687.4	2455.4	2227.2	2008.7	1855.9	1739.9	1692.4
3033.1	12.5°	3024.8	2981.9	2826.7	2549.5	2198.6	1889.0	1656.3	1537.3	1465.7	1408.5
3070.7	15°	3062.5	3002.2	2764.9	2365.0	1916.9	1602.8	1431.1	1336.2	1278.9	1241.3
3125.7	17.5°	3106.1	3019.5	2672.3	2130.8	1648.7	1404.7	1264.6	1207.4	1196.1	1191.5
3201.0	20°	3167.2	3035.3	2550.3	1868.7	1451.4	1246.5	1174.2	1168.9	1168.2	1165.9
3291.4	22.5°	3232.7	3054.2	2389.1	1630.6	1283.4	1147.9	1135.1	1124.5	1117.7	1117.0
3400.6	25°	3310.3	3060.2	2187.3	1435.6	1140.3	1101.2	1086.1	1070.3	1065.8	1065.8
3524.9	27.5°	3385.6	3039.9	1952.3	1266.1	1059.7	1058.2	1038.6	1033.4	1032.6	1034.9
3666.5	30°	3460.9	3001.4	1718.8	1109.4	1013.0	1013.0	1006.3	1010.0	1013.0	1020.6
3860.8	32.5°	3562.6	2960.8	1523.7	993.5	972.4	964.8	971.6	979.1	982.2	991.9
4116.2	35°	3711.7	2932.2	1368.5	930.2	930.2	920.4	924.2	922.7	915.9	911.4
4425.0	37.5°	3909.0	2930.6	1240.5	900.8	894.8	893.3	894.0	884.2	857.9	826.2
4798.6	40°	4146.3	2971.3	1141.8	880.5	876.0	885.0	880.5	854.1	781.8	726.8
5258.0	42.5°	4464.9	3087.3	1078.6	855.6	869.2	880.5	862.4	771.3	722.3	685.4
5781.5	45°	4840.0	3275.6	1046.2	829.3	856.4	869.9	782.6	742.6	703.5	659.0
6352.4	47.5°	5264.8	3512.9	1038.6	804.4	827.8	836.0	748.7	730.6	686.2	637.9
6926.3	50°	5727.2	3793.8	1059.0	775.0	786.3	757.7	737.4	720.8	674.9	627.4
7514.5	52.5°	6205.5	4103.4	1099.7	735.1	744.9	713.3	732.9	718.5	668.1	604.1
8122.4	55°	6675.5	4415.2	1138.8	688.4	702.7	673.3	720.0	709.5	637.2	564.9
8770.9	57.5°	7153.0	4725.5	1177.2	647.0	662.1	634.9	699.7	685.4	602.5	528.7
9478.9	60°	7649.4	5026.8	1195.3	607.1	617.6	599.5	668.8	644.0	563.4	491.8
10174.8	62.5°	8114.1	5277.6	1165.9	567.1	573.9	566.4	628.2	595.0	524.2	450.4
10900.1	65°	8580.3	5426.7	1075.6	528.0	529.5	525.7	570.9	542.3	478.3	414.3
11535.1	67.5°	9002.8	5510.3	931.7	485.8	482.0	480.5	517.4	485.1	433.8	378.1
12017.8	70°	9092.5	5297.9	711.8	436.1	436.1	432.3	458.7	425.6	384.9	339.7
11672.1	72.5°	8304.6	4456.6	505.4	379.6	385.6	378.1	399.9	372.1	335.2	305.0
10059.6	75°	6696.6	3268.1	367.6	321.6	332.2	319.4	339.7	320.1	288.5	287.7
6932.3	77.5°	4601.2	2020.8	266.6	265.1	272.7	256.1	279.4	268.9	240.3	227.5
3017.3	80°	1963.6	805.9	194.3	204.9	204.9	189.8	216.9	219.9	195.1	189.0
582.2	82.5°	390.9	229.0	136.3	140.8	132.6	128.0	153.7	170.2	235.0	261.4
175.5	85°	117.5	84.4	82.1	76.8	67.8	68.5	90.4	171.0	210.9	120.5
58.0	87.5°	32.4	21.1	21.8	17.3	14.3	18.8	30.9	129.5	70.8	30.1
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°
2858.3
2767.2
2525.4
2133.0
1703.0
1427.3
1248.0
1194.6
1173.5
1125.3
1070.3
1040.9
1025.8
1000.2
921.9
827.0
725.3
683.9
656.0
634.2
622.1
599.5
561.1
527.2
489.6
449.7
409.7
373.6
338.2
296.0
259.1
213.2
189.0
262.1
103.9
25.6
0.0

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