

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: P950453

Luminaire Tested: **GALN-SB4D-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950453
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-SB4D-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25157 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

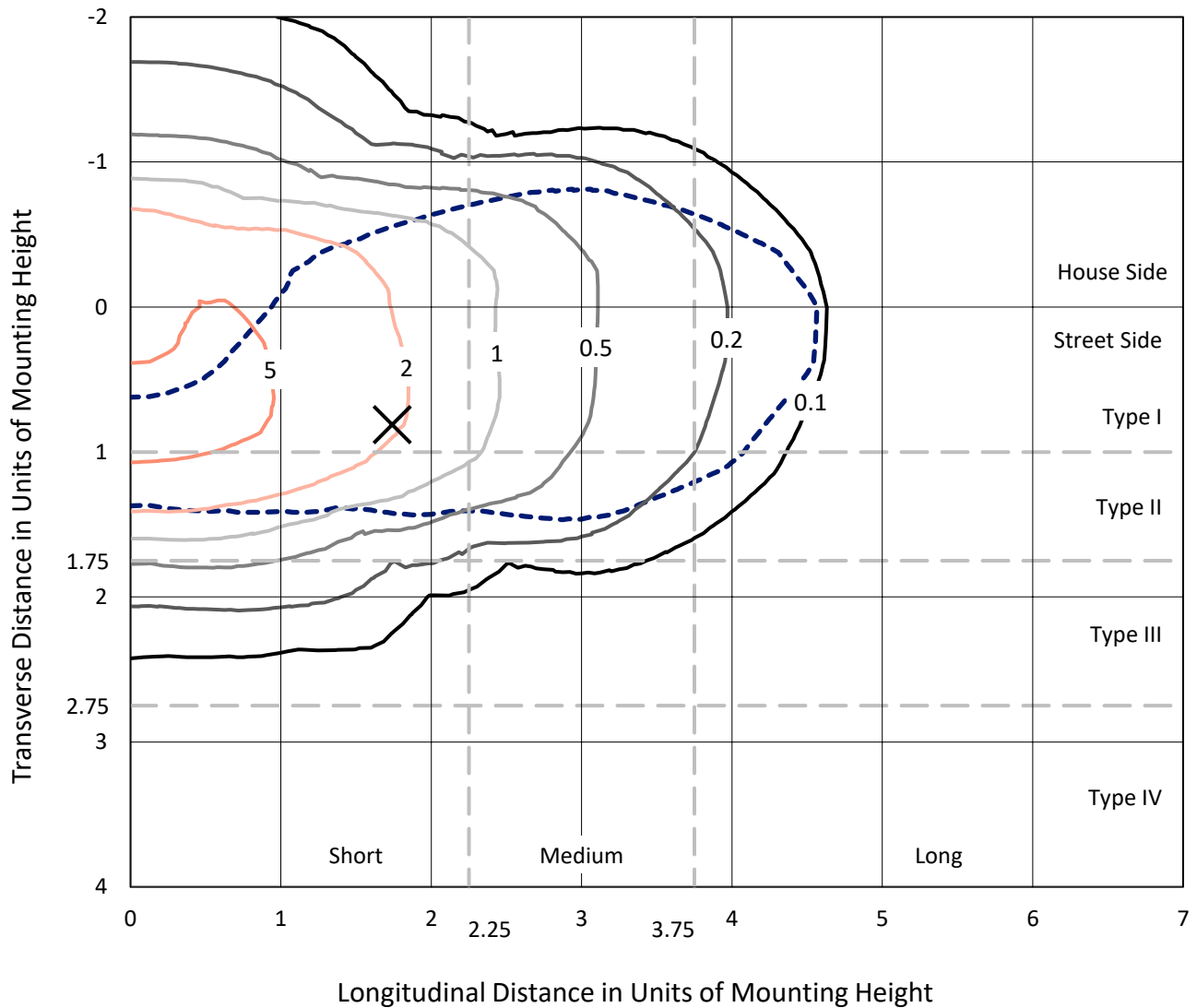
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

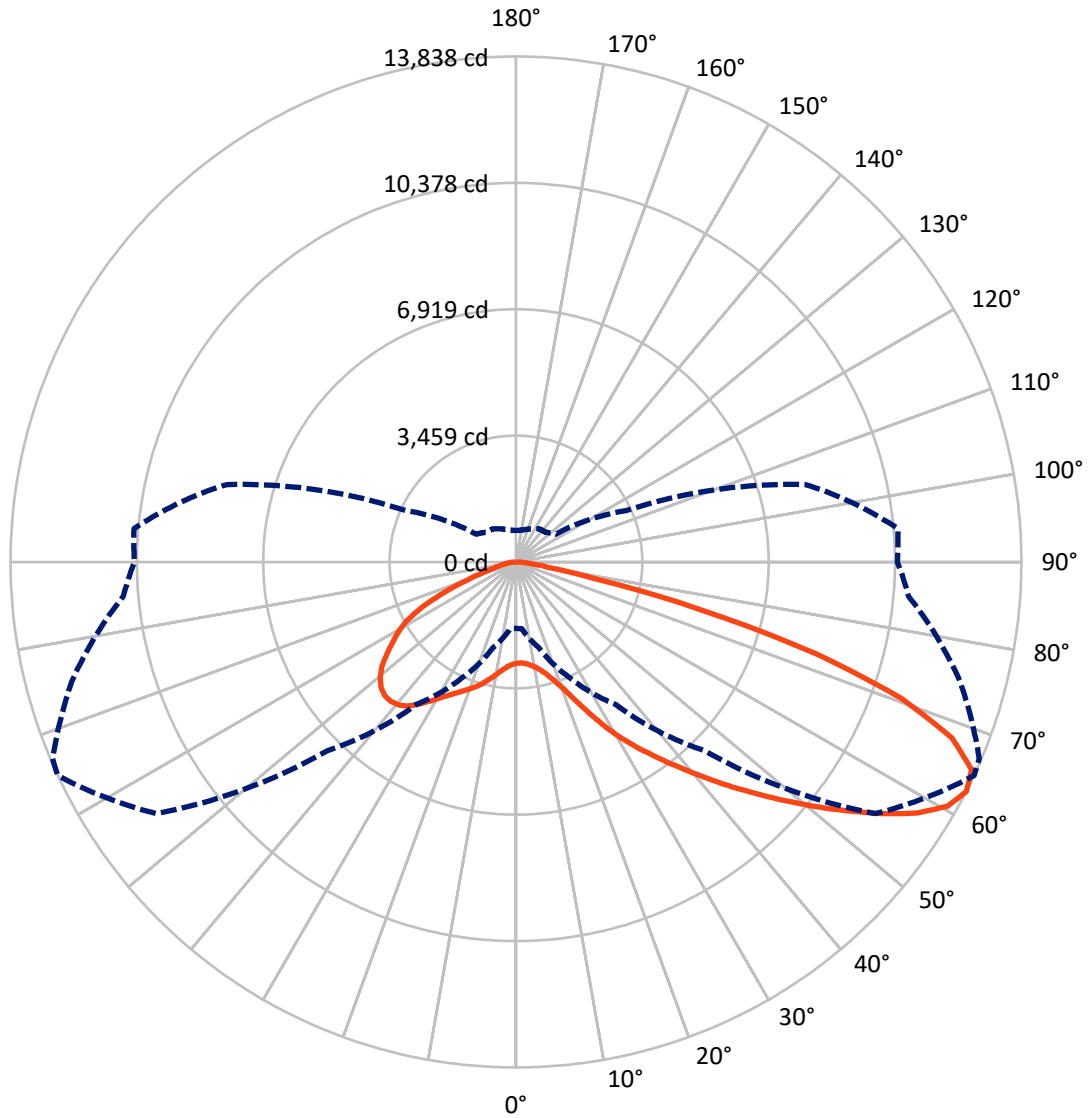
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7938.5	0.0	7938.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17218.6	0.0	17218.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	25157.0	0.0	25157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.1
10°-20°	937.2	3.7
20°-30°	1900.4	7.6
30°-40°	3288.5	13.1
40°-50°	4976.6	19.8
50°-60°	5834.7	23.2
60°-70°	4891.7	19.4
70°-80°	2700.6	10.7
80°-90°	350.8	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°	25157.0	100.0
0°-180°	25157.0	100.0

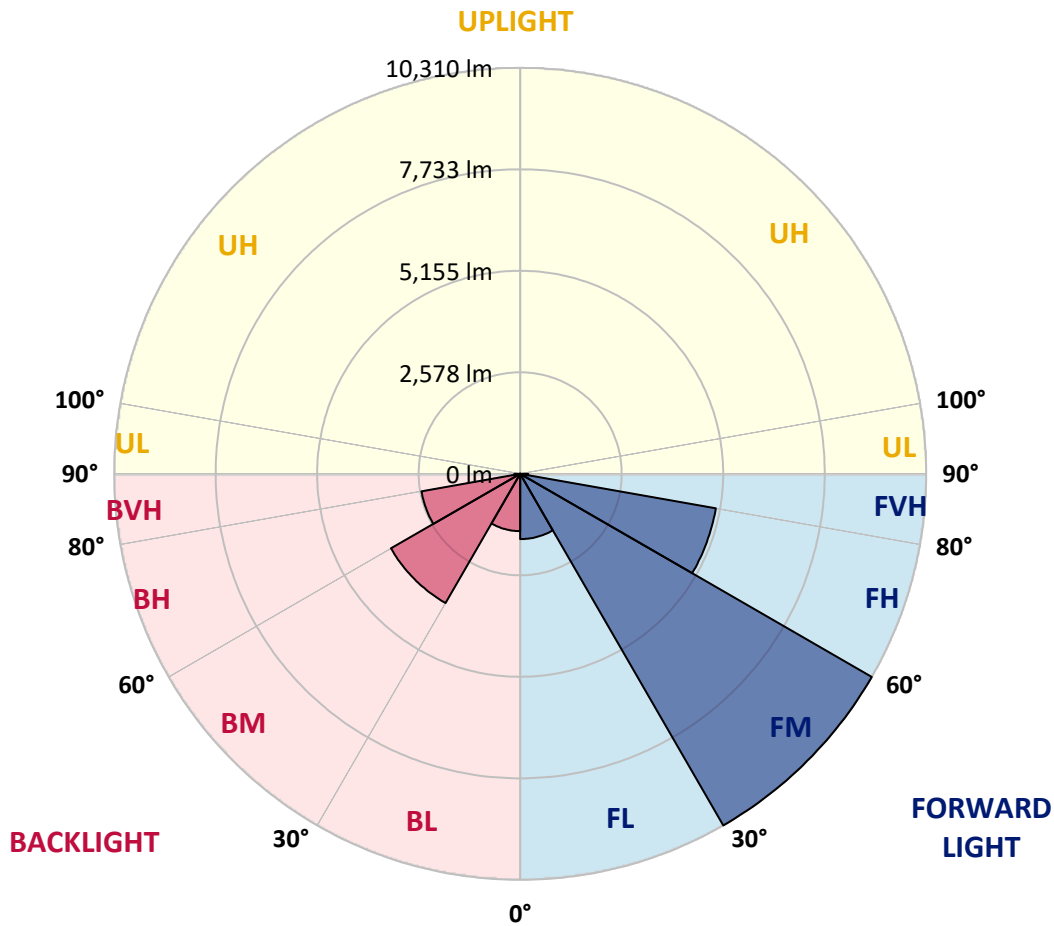


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.2	6.6			
FM (30°-60°)	10310.2	41.0			
FH (60°-80°)	5045.8	20.1			G3/7500
FVH (80°-90°)	204.5	0.8			G2/225
BL (0°-30°)	1455.8	5.8	B3/2500		
BM (30°-60°)	3789.7	15.1	B3/5000		
BH (60°-80°)	2546.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	146.3	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°	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2
2.5°	2753.9	2746.1	2752.6	2752.6	2755.2	2753.9	2763.1	2765.7	2769.6	2777.4
5°	2726.5	2725.2	2737.0	2747.4	2757.8	2767.0	2778.7	2795.7	2798.3	2807.4
7.5°	2717.4	2709.5	2727.8	2740.9	2765.7	2787.9	2819.2	2847.9	2859.6	2863.6
10°	2787.9	2774.8	2791.8	2799.6	2820.5	2842.7	2879.2	2924.9	2937.9	2953.6
12.5°	2907.9	2893.6	2918.4	2930.1	2949.7	2969.3	2994.1	3038.4	3045.0	3073.7
15°	3072.4	3055.4	3071.1	3085.4	3118.1	3136.3	3161.1	3204.2	3204.2	3226.4
17.5°	3295.6	3273.4	3285.1	3290.3	3311.2	3338.6	3380.4	3418.3	3437.8	3430.0
20°	3628.4	3601.0	3601.0	3574.9	3567.0	3589.2	3644.0	3696.3	3717.1	3676.7
22.5°	4128.3	4089.1	4066.9	3978.2	3942.9	3945.5	4000.4	4064.3	4081.3	4009.5
25°	4763.9	4702.5	4672.5	4542.0	4462.4	4393.2	4436.3	4518.5	4542.0	4453.3
27.5°	5399.5	5403.4	5374.7	5218.1	5086.3	4959.7	4937.5	5023.6	5048.4	4947.9
30°	6290.9	6198.3	6143.5	5955.5	5767.6	5590.1	5498.7	5533.9	5540.5	5420.4
32.5°	7059.7	7036.2	6918.7	6754.3	6512.8	6234.8	6082.1	6026.0	6015.6	5844.6
35°	7935.5	7922.4	7798.4	7602.6	7341.6	6955.3	6679.9	6519.4	6506.3	6266.1
37.5°	8825.6	8825.6	8704.2	8490.2	8220.0	7737.1	7318.1	7063.6	7021.8	6708.6
40°	9535.6	9492.5	9514.7	9424.7	9115.3	8602.4	8026.8	7657.5	7601.3	7225.5
42.5°	9938.9	9924.6	10057.7	10158.2	10031.6	9621.8	8807.3	8300.9	8222.6	7794.5
45°	10029.0	10013.3	10250.8	10618.9	10796.4	10628.0	9655.7	8978.3	8883.0	8389.7
47.5°	9821.4	9790.1	10138.6	10719.4	11288.5	11584.7	10574.5	9713.1	9574.8	8969.2
50°	9197.6	9167.6	9694.8	10466.2	11454.2	12234.7	11571.7	10492.3	10280.9	9590.4
52.5°	7841.5	7855.9	8682.0	9741.8	11236.3	12639.3	12430.5	11313.3	11058.8	10226.0
55°	6108.2	6139.5	7155.0	8321.8	10364.4	12578.0	13016.5	12159.0	11905.8	10823.8
57.5°	4373.6	4512.0	5463.5	6618.5	8689.9	11605.6	13144.4	12963.0	12717.6	11476.4
60°	2834.8	2859.6	3838.5	5002.7	6617.2	9877.6	12884.7	13572.5	13380.7	12142.0
62.5°	1816.8	1833.8	2430.2	3499.2	4762.6	7307.7	12010.2	13837.5	13778.7	12581.9
65°	1335.2	1322.1	1632.8	2312.8	3208.1	4506.8	10312.2	13709.6	13825.7	12857.3
67.5°	1114.6	1096.3	1249.1	1601.5	2363.7	2559.4	7630.1	12878.2	13303.7	12826.0
70°	1015.4	999.8	1092.4	1189.0	1844.2	1713.7	3846.4	11195.8	11851.0	12469.6
72.5°	860.1	832.7	959.3	1055.9	1434.4	1314.3	1589.7	8599.8	9398.6	11327.6
75°	666.9	648.7	757.0	929.3	1078.1	1025.9	1005.0	5222.0	6093.9	8760.3
77.5°	528.6	503.8	603.0	724.4	969.7	774.0	732.2	2248.8	3112.8	5592.7
80°	398.1	375.9	458.1	573.0	745.3	583.4	473.8	917.5	1173.4	2833.5
82.5°	283.2	263.6	319.8	420.3	501.2	523.4	291.1	514.2	578.2	1092.4
85°	181.4	169.7	214.0	263.6	318.5	336.7	177.5	268.9	295.0	450.3
87.5°	99.2	80.9	114.9	122.7	147.5	134.4	84.8	97.9	105.7	163.1
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°
2772.2	0°	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2	2772.2
2777.4	2.5°	2782.6	2786.5	2799.6	2803.5	2812.7	2824.4	2832.2	2840.1	2840.1	2847.9
2819.2	5°	2820.5	2829.6	2857.0	2871.4	2894.9	2918.4	2932.7	2949.7	2960.1	2965.4
2885.7	7.5°	2893.6	2907.9	2947.1	2971.9	3012.3	3045.0	3067.2	3090.7	3095.9	3110.2
2978.4	10°	2992.8	3009.7	3054.1	3101.1	3149.4	3189.8	3210.7	3227.7	3234.2	3236.8
3097.2	12.5°	3106.3	3131.1	3188.5	3246.0	3296.9	3332.1	3337.3	3333.4	3315.1	3299.5
3243.4	15°	3246.0	3268.2	3332.1	3394.8	3444.4	3450.9	3418.3	3397.4	3375.2	3371.3
3406.5	17.5°	3413.0	3424.8	3483.5	3544.9	3548.8	3526.6	3478.3	3458.7	3437.8	3423.5
3619.3	20°	3607.5	3603.6	3645.4	3671.5	3644.0	3576.2	3503.1	3470.5	3449.6	3432.6
3880.3	22.5°	3839.8	3809.8	3804.6	3798.1	3725.0	3582.7	3483.5	3441.7	3409.1	3385.6
4244.4	25°	4177.9	4063.0	3983.4	3939.0	3774.6	3547.5	3420.9	3328.2	3266.9	3226.4
4689.5	27.5°	4600.7	4407.6	4206.6	4098.3	3774.6	3475.7	3269.5	3119.4	3018.9	2977.1
5120.2	30°	5004.0	4801.7	4505.5	4290.1	3765.4	3358.2	3025.4	2816.6	2699.1	2657.3
5488.3	32.5°	5348.6	5128.0	4822.6	4500.2	3743.2	3167.7	2722.6	2491.6	2378.0	2328.4
5852.4	35°	5668.4	5433.4	5141.1	4731.3	3684.5	2888.4	2389.8	2213.6	2087.0	2007.4
6223.1	37.5°	5996.0	5716.7	5442.6	4940.1	3578.8	2562.1	2134.0	1983.9	1835.1	1728.1
6617.2	40°	6352.3	6018.2	5765.0	5064.1	3405.2	2251.4	1935.6	1798.5	1640.6	1527.1
7071.4	42.5°	6768.6	6379.7	6123.9	5128.0	3167.7	2030.9	1806.4	1671.9	1523.1	1430.5
7558.3	45°	7203.3	6777.8	6451.5	5126.7	2902.7	1927.7	1764.6	1631.5	1467.0	1370.4
8058.2	47.5°	7658.8	7194.1	6734.7	5043.2	2673.0	1942.1	1741.1	1544.0	1362.6	1268.6
8563.3	50°	8115.6	7649.6	7008.8	4886.6	2575.1	1910.8	1653.7	1421.3	1207.3	1122.5
9037.0	52.5°	8568.5	8133.9	7245.0	4663.4	2475.9	1794.6	1541.4	1262.1	1143.3	1084.6
9526.5	55°	9024.0	8612.9	7502.1	4338.4	2227.9	1658.9	1353.5	1202.1	1092.4	1038.9
10005.5	57.5°	9480.8	9166.2	7746.2	4013.4	1916.0	1491.8	1250.4	1129.0	1041.5	995.8
10406.2	60°	9955.9	9799.3	7998.1	3714.5	1608.0	1277.8	1174.7	1070.2	981.5	930.6
10791.2	62.5°	10445.3	10496.2	8195.2	3329.5	1324.8	1147.2	1106.8	999.8	913.6	865.3
11109.7	65°	10938.7	11168.4	8324.4	2795.7	1074.2	1023.3	1033.7	922.8	835.3	793.5
11343.3	67.5°	11310.6	11652.6	8287.9	2115.7	881.0	905.8	942.3	841.8	759.6	727.0
11305.4	70°	11352.4	11595.2	7927.6	1448.7	737.4	790.9	840.5	762.2	677.4	653.9
10772.9	72.5°	10796.4	10812.1	6924.0	946.3	623.9	694.4	733.5	681.3	599.1	575.6
9424.7	75°	9338.5	8941.8	5083.7	623.9	522.1	596.5	633.0	596.5	516.8	522.1
7051.9	77.5°	7075.4	6332.7	3086.7	443.8	435.9	501.2	550.8	524.7	456.8	512.9
3546.2	80°	3645.4	3426.1	1377.0	331.5	344.6	400.7	452.9	419.0	361.5	344.6
792.2	82.5°	835.3	971.1	543.0	237.5	249.3	288.4	345.9	314.5	259.7	219.3
330.2	85°	292.4	319.8	240.2	148.8	146.2	180.1	234.9	210.1	176.2	141.0
139.7	87.5°	92.7	121.4	90.1	60.0	62.6	80.9	108.3	99.2	82.2	53.5
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°
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2772.2
2847.9
2968.0
3105.0
3230.3
3299.5
3371.3
3424.8
3433.9
3393.5
3242.1
2998.0
2682.1
2353.2
2033.5
1756.8
1549.2
1448.7
1386.1
1281.7
1127.7
1084.6
1033.7
988.0
926.7
864.0
792.2
728.3
655.2
574.3
503.8
451.6
314.5
216.7
148.8
56.1
0.0

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