

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: P949729

Luminaire Tested: **GALN-SB4B-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949729  
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-SB4B-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

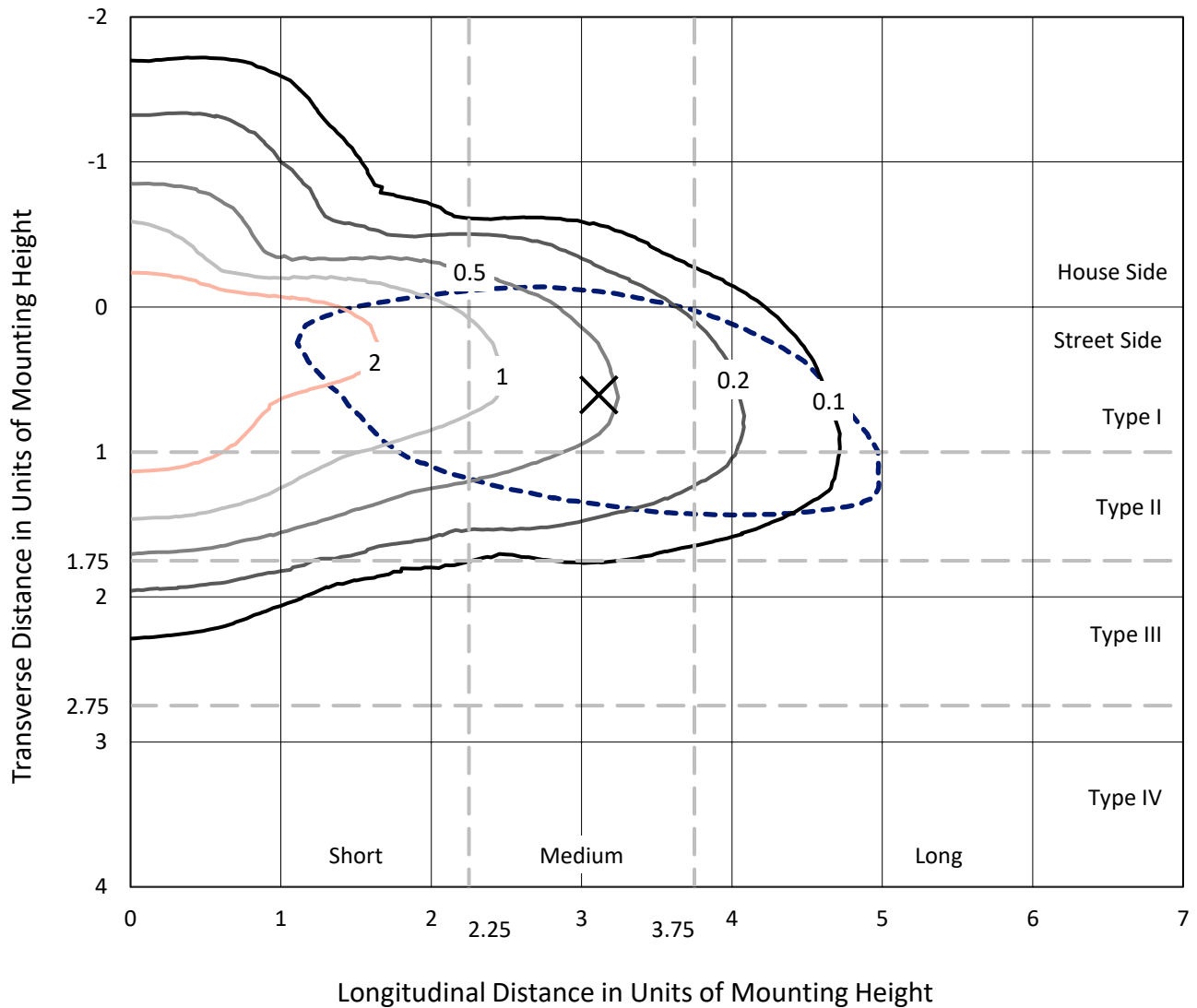
Lumens per Lamp: N/A  
Luminaire Lumens: 13654 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

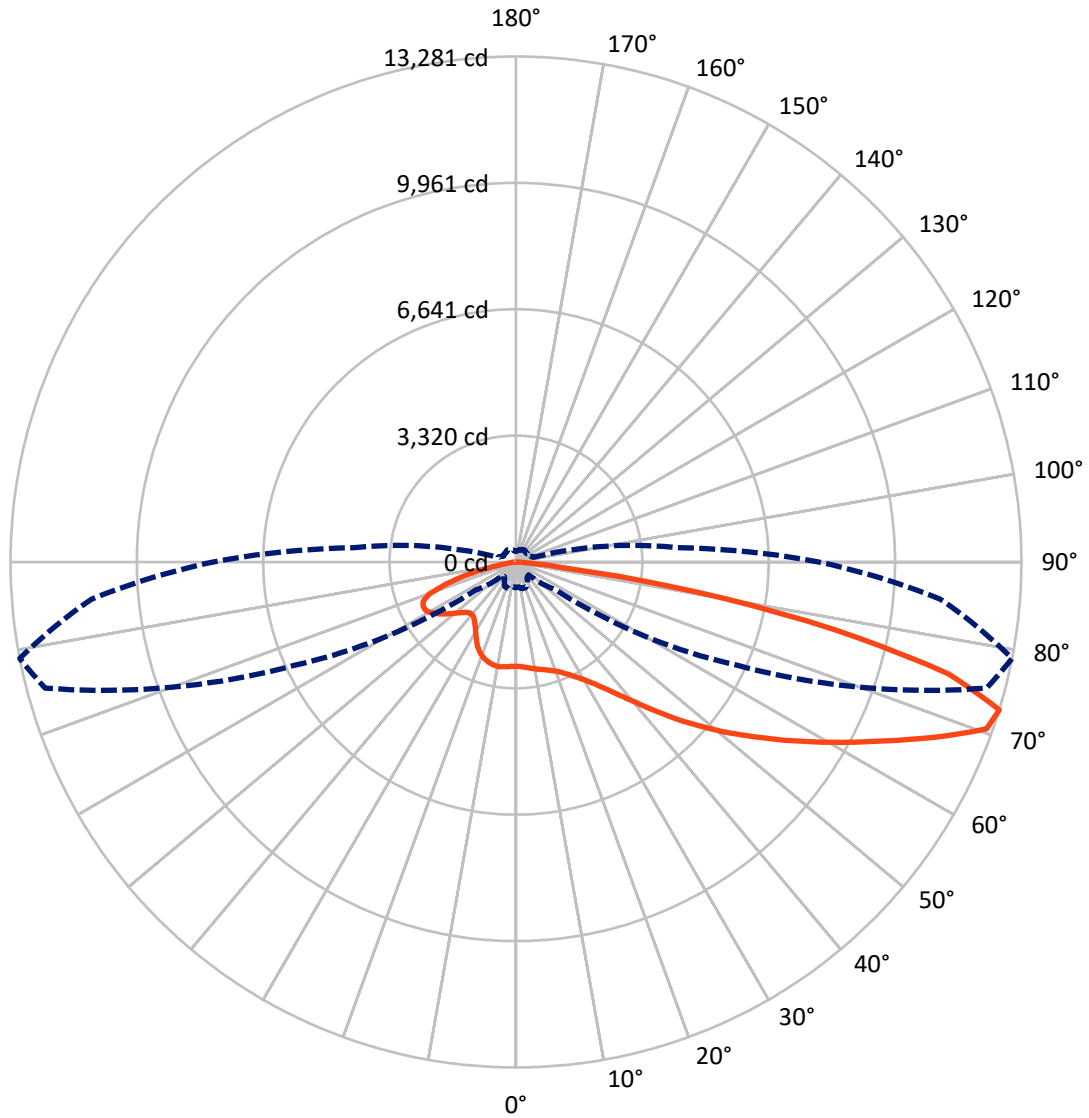
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	3004.6	0.0	3004.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	10649.4	0.0	10649.4
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	13654.0	0.0	13654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	1.8
10°-20°	650.5	4.8
20°-30°	1049.6	7.7
30°-40°	1575.3	11.5
40°-50°	2234.7	16.4
50°-60°	2822.1	20.7
60°-70°	2866.2	21.0
70°-80°	1953.4	14.3
80°-90°	253.4	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°	13654.0	100.0
0°-180°	13654.0	100.0

**Coefficient of Utilization**



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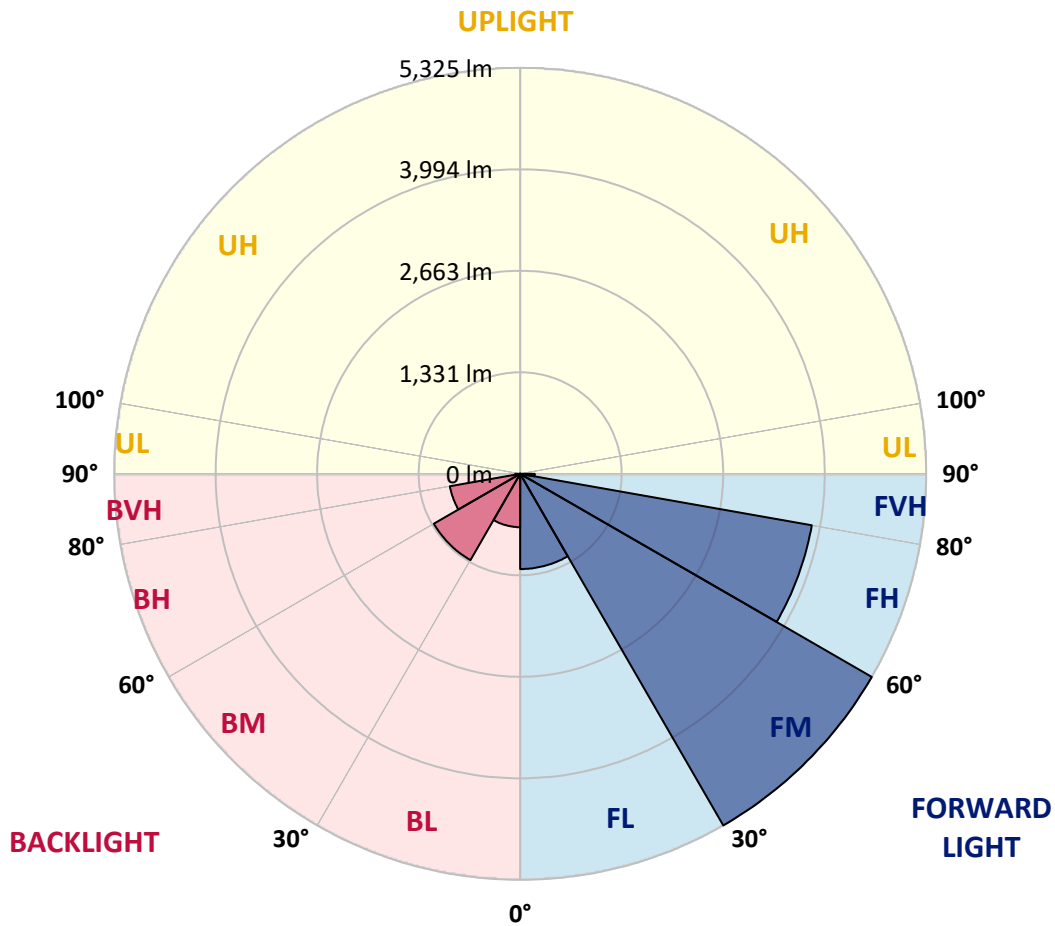
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.0	9.1			
FM (30°-60°)	5325.3	39.0			
FH (60°-80°)	3884.1	28.4			G2/5000
FVH (80°-90°)	190.9	1.4			G2/225
BL (0°-30°)	699.9	5.1	B2/1000		
BM (30°-60°)	1306.7	9.6	B2/2500		
BH (60°-80°)	935.5	6.9	B2/1000		G2/1000
BVH (80°-90°)	62.5	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°	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9
2.5°	2742.4	2729.4	2737.3	2734.4	2738.0	2742.4	2743.8	2746.0	2753.2	2752.5
5°	2736.6	2723.6	2734.4	2730.8	2740.2	2750.3	2759.0	2766.9	2778.5	2783.5
7.5°	2724.3	2715.6	2726.5	2737.3	2754.6	2769.8	2782.1	2800.1	2816.7	2819.6
10°	2652.8	2646.3	2671.6	2699.7	2747.4	2788.6	2815.3	2836.2	2854.3	2857.2
12.5°	2578.4	2570.5	2598.6	2636.9	2714.2	2788.6	2844.9	2872.4	2888.2	2897.6
15°	2566.1	2559.6	2575.5	2608.7	2673.0	2769.1	2865.1	2915.7	2929.4	2940.2
17.5°	2625.4	2613.1	2619.6	2631.1	2668.7	2751.0	2881.0	2964.8	2985.8	2997.3
20°	2762.6	2745.2	2735.1	2712.0	2705.5	2753.9	2879.6	3024.0	3051.5	3065.9
22.5°	2945.3	2933.7	2912.1	2853.6	2790.0	2789.3	2907.0	3099.9	3151.1	3164.9
25°	3166.3	3149.0	3121.5	3042.1	2920.0	2859.4	2953.3	3196.6	3282.6	3286.2
27.5°	3420.5	3394.5	3357.0	3252.3	3087.6	2969.1	3024.0	3307.9	3433.5	3432.1
30°	3688.5	3662.5	3622.8	3495.7	3288.4	3117.2	3122.3	3427.8	3612.7	3604.7
32.5°	3884.2	3864.7	3856.8	3758.6	3519.5	3292.0	3234.9	3560.7	3833.7	3826.4
35°	4034.4	4009.2	4018.6	3968.7	3771.6	3487.7	3372.9	3718.8	4102.3	4101.6
37.5°	4183.2	4160.8	4168.8	4135.6	4004.8	3736.2	3541.2	3912.4	4435.3	4451.2
40°	4319.0	4295.2	4327.0	4295.9	4186.1	4000.5	3732.5	4131.2	4821.0	4851.3
42.5°	4400.6	4381.8	4434.6	4435.3	4343.6	4223.7	3942.7	4372.5	5267.3	5335.2
45°	4428.8	4422.3	4501.7	4518.3	4483.0	4353.0	4131.9	4635.4	5748.3	5869.7
47.5°	4398.5	4386.2	4496.0	4557.4	4585.5	4413.6	4288.7	4919.9	6239.5	6417.1
50°	4245.3	4221.5	4384.7	4514.0	4614.4	4453.3	4446.8	5248.5	6797.7	6992.0
52.5°	3970.2	3952.1	4137.7	4362.3	4550.9	4472.8	4624.5	5607.5	7327.9	7579.2
55°	3618.4	3594.6	3799.0	4092.2	4392.7	4466.3	4802.2	6009.1	7953.3	8208.3
57.5°	3060.9	3013.2	3271.8	3618.4	4134.8	4458.4	4987.1	6408.5	8588.9	8894.4
60°	2247.6	2176.8	2493.9	2904.9	3630.7	4381.1	5216.0	6856.2	9351.6	9626.8
62.5°	1308.7	1267.5	1474.8	1858.3	2736.6	3926.1	5344.6	7377.0	10101.3	10390.2
65°	1016.2	1004.6	1022.7	1052.3	1523.2	2939.5	4948.1	7884.7	11054.6	11256.9
67.5°	929.5	920.9	928.8	873.2	772.8	1637.3	3914.6	8013.3	12075.9	12198.7
70°	826.2	816.1	842.1	794.5	608.1	744.6	2529.3	7546.7	12888.4	13118.8
72.5°	673.1	661.6	722.2	700.6	512.1	478.1	1270.4	6438.1	12803.2	13281.3
75°	517.1	510.6	582.8	600.9	417.5	376.3	609.6	4785.6	11267.0	11748.7
77.5°	401.6	396.5	433.3	499.1	336.6	291.8	374.8	3035.6	8490.7	8575.2
80°	301.2	286.7	320.7	386.4	262.2	213.1	254.2	1770.2	5367.0	4865.0
82.5°	188.5	181.3	209.5	257.8	184.9	146.6	165.4	977.9	2150.8	1266.8
85°	107.6	104.7	114.1	147.3	100.4	84.5	94.6	431.9	392.9	270.1
87.5°	43.3	41.9	52.0	65.7	36.8	31.1	33.2	104.0	86.7	80.2
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°
2740.9	0°	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9	2740.9
2751.7	2.5°	2748.9	2748.9	2738.7	2722.9	2704.8	2693.2	2674.5	2669.4	2649.9	2644.1
2776.3	5°	2782.1	2776.3	2745.2	2700.5	2639.1	2582.7	2520.6	2481.6	2426.7	2407.2
2824.7	7.5°	2824.0	2808.1	2754.6	2656.4	2527.8	2401.5	2270.0	2170.3	2075.0	2041.1
2864.4	10°	2862.2	2839.9	2748.9	2577.0	2354.5	2135.7	1926.2	1779.6	1668.4	1622.9
2908.5	12.5°	2900.5	2859.4	2710.6	2444.8	2108.2	1811.4	1588.2	1474.1	1405.5	1350.6
2944.6	15°	2936.6	2878.9	2651.4	2267.8	1838.1	1536.9	1372.3	1281.3	1226.4	1190.3
2997.3	17.5°	2978.5	2895.5	2562.5	2043.2	1581.0	1347.0	1212.6	1157.8	1146.9	1142.6
3069.5	20°	3037.0	2910.6	2445.5	1791.9	1391.8	1195.3	1126.0	1120.9	1120.2	1118.0
3156.2	22.5°	3099.9	2928.7	2291.0	1563.7	1230.7	1100.7	1088.4	1078.3	1071.8	1071.1
3260.9	25°	3174.3	2934.5	2097.4	1376.6	1093.5	1055.9	1041.5	1026.3	1022.0	1022.0
3380.1	27.5°	3246.5	2915.0	1872.1	1214.1	1016.2	1014.8	996.0	990.9	990.2	992.4
3515.9	30°	3318.7	2878.1	1648.2	1063.9	971.4	971.4	964.9	968.5	971.4	978.6
3702.2	32.5°	3416.2	2839.1	1461.1	952.6	932.4	925.2	931.7	938.9	941.8	951.2
3947.1	35°	3559.2	2811.7	1312.3	892.0	892.0	882.6	886.2	884.7	878.2	873.9
4243.2	37.5°	3748.4	2810.2	1189.5	863.8	858.0	856.6	857.3	847.9	822.6	792.3
4601.4	40°	3975.9	2849.2	1094.9	844.3	840.0	848.6	844.3	819.0	749.7	697.0
5042.0	42.5°	4281.5	2960.5	1034.3	820.5	833.5	844.3	827.0	739.6	692.6	657.2
5543.9	45°	4641.1	3141.0	1003.2	795.2	821.2	834.2	750.4	712.1	674.6	632.0
6091.4	47.5°	5048.5	3368.5	996.0	771.4	793.7	801.7	717.9	700.6	658.0	611.7
6641.7	50°	5491.9	3637.9	1015.5	743.2	754.0	726.6	707.1	691.2	647.1	601.6
7205.8	52.5°	5950.6	3934.8	1054.5	704.9	714.3	684.0	702.7	689.0	640.6	579.2
7788.7	55°	6401.2	4233.8	1092.0	660.1	673.9	645.7	690.5	680.4	611.0	541.7
8410.5	57.5°	6859.1	4531.4	1128.9	620.4	634.9	608.9	671.0	657.2	577.8	507.0
9089.4	60°	7335.1	4820.2	1146.2	582.1	592.2	574.9	641.4	617.5	540.2	471.6
9756.8	62.5°	7780.7	5060.8	1118.0	543.8	550.3	543.1	602.4	570.6	502.7	431.9
10452.3	65°	8227.8	5203.8	1031.4	506.3	507.7	504.1	547.5	520.0	458.6	397.2
11061.1	67.5°	8633.0	5283.9	893.4	465.8	462.2	460.8	496.2	465.1	416.0	362.6
11524.1	70°	8718.9	5080.3	682.5	418.2	418.2	414.6	439.8	408.1	369.1	325.7
11192.6	72.5°	7963.4	4273.5	484.6	364.0	369.8	362.6	383.5	356.8	321.4	292.5
9646.3	75°	6421.5	3133.8	352.5	308.4	318.5	306.2	325.7	307.0	276.6	275.9
6647.5	77.5°	4412.2	1937.8	255.7	254.2	261.5	245.6	268.0	257.8	230.4	218.1
2893.3	80°	1882.9	772.8	186.3	196.4	196.4	182.0	208.0	210.9	187.1	181.3
558.3	82.5°	374.8	219.6	130.7	135.1	127.1	122.8	147.3	163.2	225.3	250.6
168.3	85°	112.7	80.9	78.7	73.7	65.0	65.7	86.7	163.9	202.2	115.6
55.6	87.5°	31.1	20.2	20.9	16.6	13.7	18.1	29.6	124.2	67.9	28.9
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°
2740.9
2653.5
2421.7
2045.4
1633.0
1368.6
1196.8
1145.5
1125.3
1079.0
1026.3
998.1
983.7
959.1
884.0
793.0
695.5
655.8
629.1
608.1
596.6
574.9
538.1
505.6
469.5
431.2
392.9
358.2
324.3
283.8
248.5
204.4
181.3
251.3
99.7
24.6
0.0

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