

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: P941012

Luminaire Tested: **GALN-SB4B-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941012  
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-SB4B-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

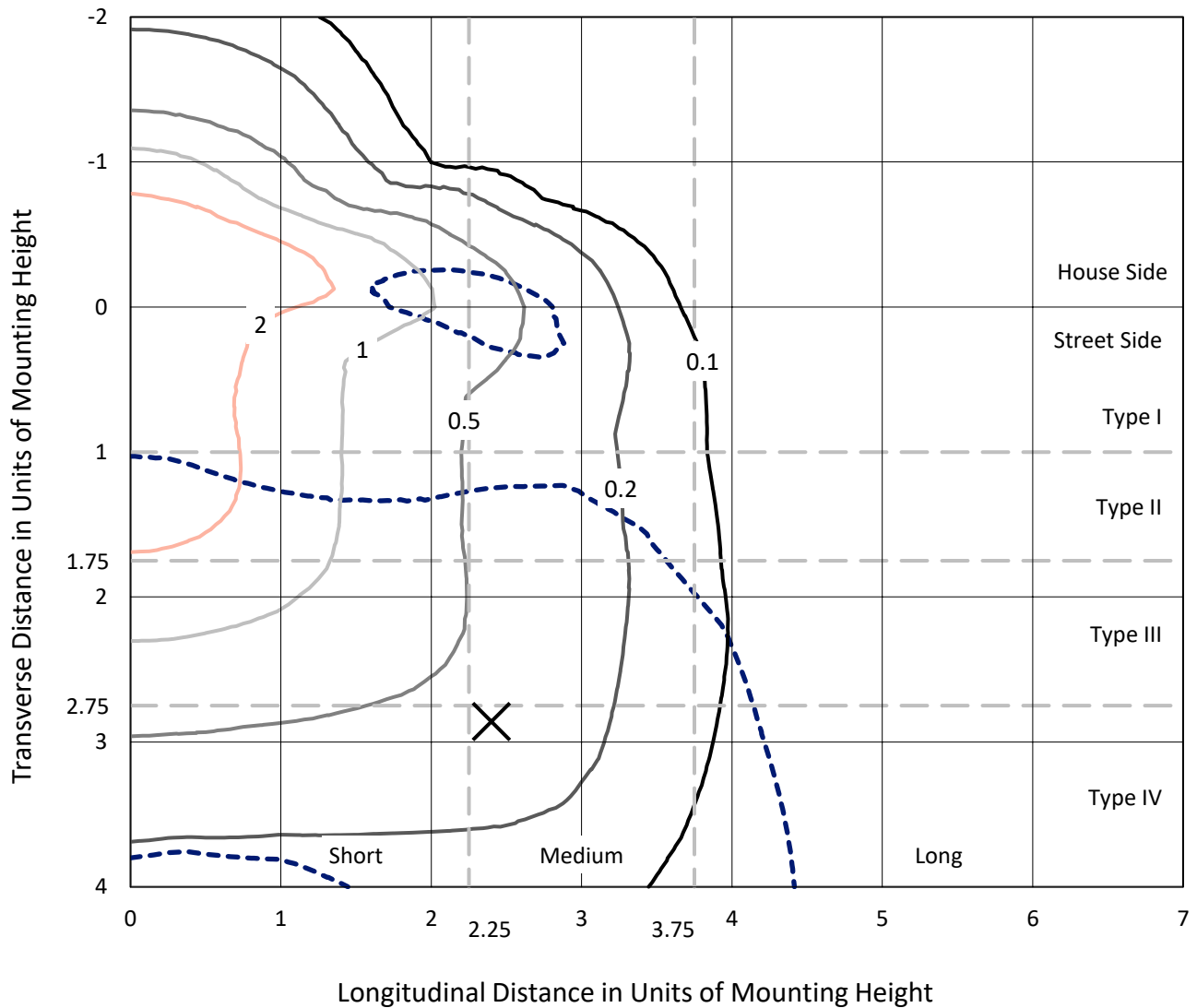
Lumens per Lamp: N/A  
Luminaire Lumens: 20750 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

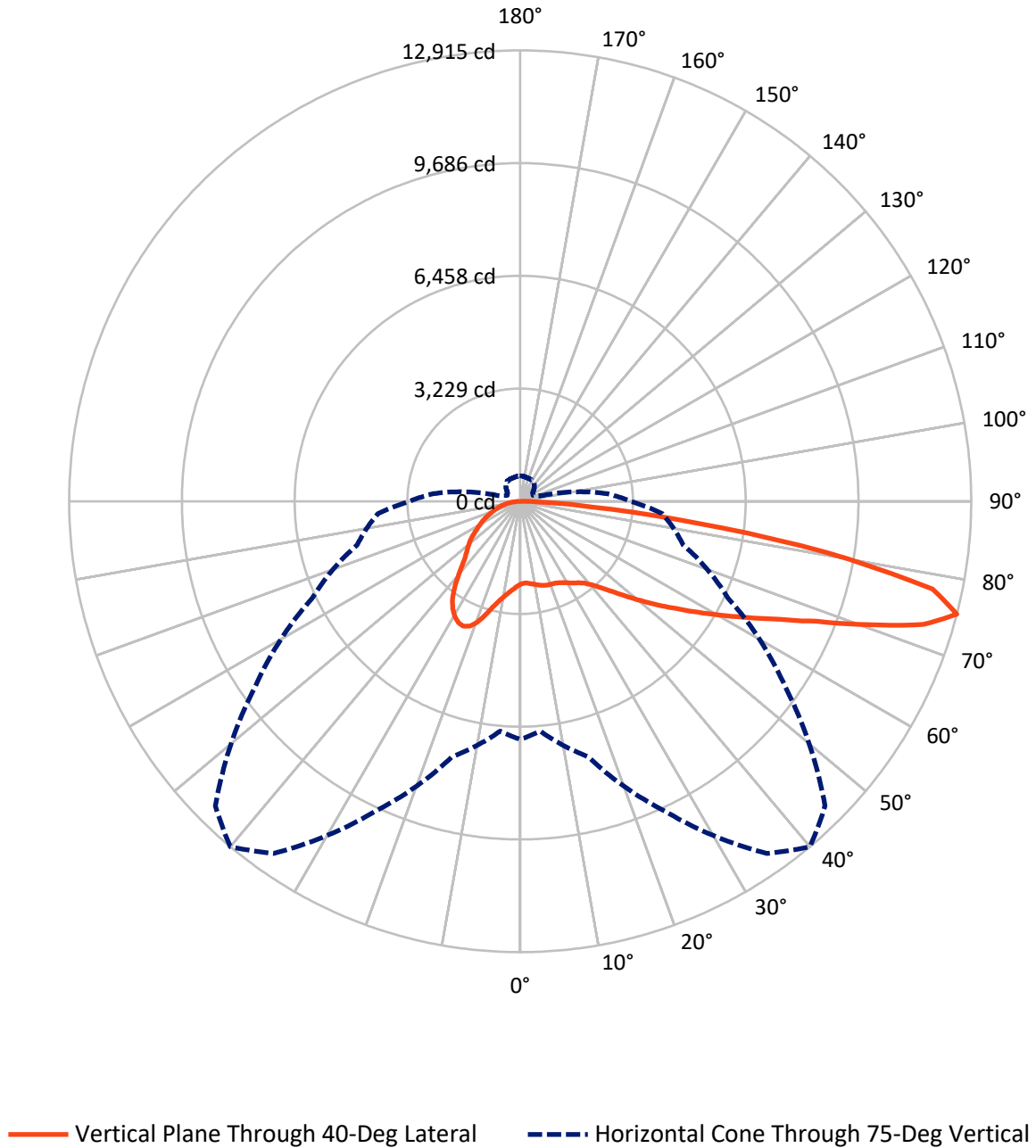
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6429.0	0.0	6429.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	14321.0	0.0	14321.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	20750.0	0.0	20750.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.9	1.1
10°-20°	795.2	3.8
20°-30°	1452.0	7.0
30°-40°	2059.3	9.9
40°-50°	2780.7	13.4
50°-60°	3740.8	18.0
60°-70°	4747.9	22.9
70°-80°	4309.0	20.8
80°-90°	628.1	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°	20750.0	100.0
0°-180°	20750.0	100.0



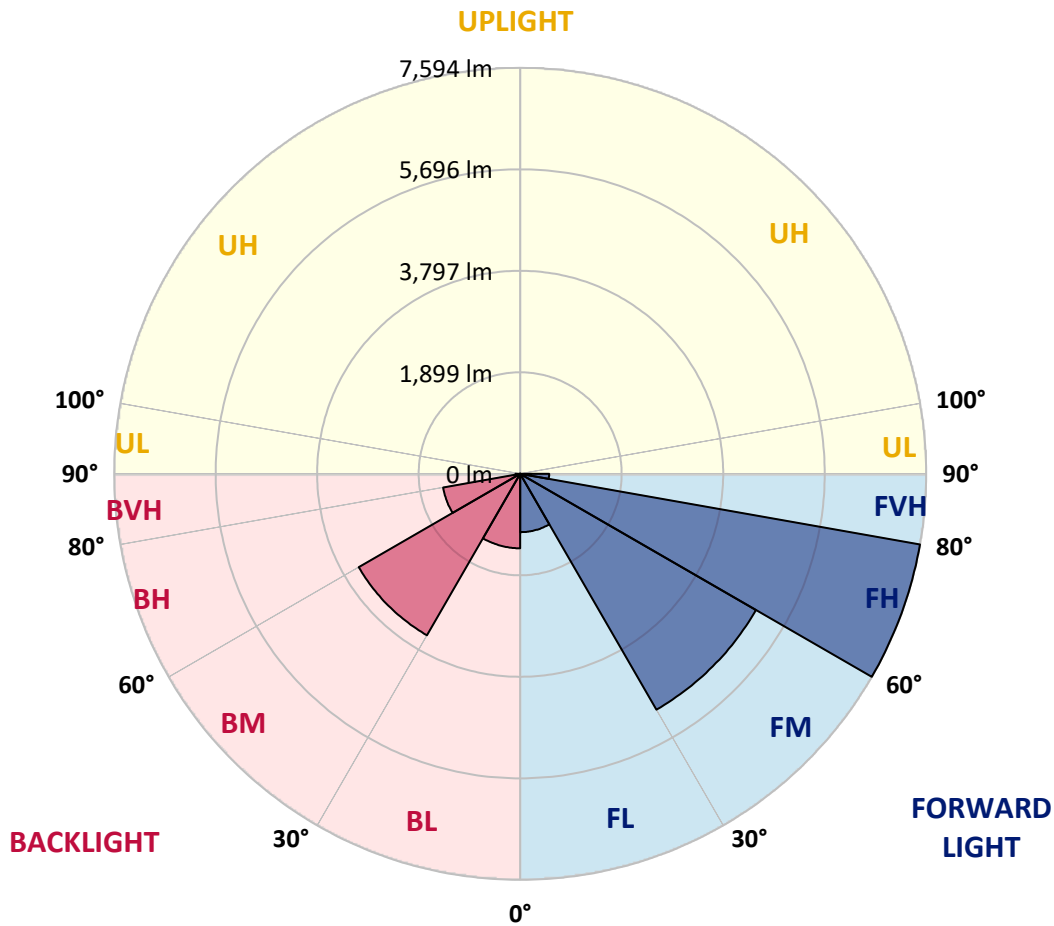
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.5	5.3			
FM (30°-60°)	5093.7	24.5			
FH (60°-80°)	7594.2	36.6			G4/12000
FVH (80°-90°)	541.6	2.6			G4/750
BL (0°-30°)	1392.6	6.7	B3/2500		
BM (30°-60°)	3487.2	16.8	B3/5000		
BH (60°-80°)	1462.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	86.5	0.4			G1/100
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°	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8
2.5°	2336.5	2349.7	2346.4	2342.0	2342.0	2343.1	2342.0	2349.7	2357.4	2365.1
5°	2360.7	2373.9	2367.3	2361.8	2357.4	2356.3	2353.0	2351.9	2356.3	2366.2
7.5°	2408.0	2421.2	2411.3	2401.4	2392.6	2388.2	2383.8	2377.2	2373.9	2379.4
10°	2460.8	2474.0	2461.9	2444.3	2430.0	2424.5	2420.1	2413.5	2409.1	2412.4
12.5°	2513.7	2526.9	2510.4	2486.1	2467.4	2464.1	2458.6	2456.4	2455.3	2454.2
15°	2563.2	2574.2	2553.3	2524.7	2504.9	2499.4	2493.9	2497.2	2502.7	2509.3
17.5°	2601.7	2612.7	2581.9	2544.5	2525.8	2523.6	2520.3	2531.3	2546.7	2563.2
20°	2636.9	2647.9	2608.3	2557.7	2535.7	2535.7	2536.8	2559.9	2581.9	2606.1
22.5°	2686.4	2695.3	2646.8	2577.5	2545.6	2547.8	2556.6	2579.7	2607.2	2640.2
25°	2760.2	2766.8	2707.4	2614.9	2578.6	2585.2	2592.9	2603.9	2630.3	2668.8
27.5°	2879.0	2884.5	2806.4	2680.9	2625.9	2636.9	2647.9	2640.2	2652.3	2685.3
30°	3046.3	3049.6	2950.6	2784.4	2706.3	2711.8	2714.0	2682.0	2658.9	2685.3
32.5°	3244.4	3243.3	3125.6	2909.9	2797.6	2792.1	2773.4	2710.7	2656.7	2679.8
35°	3551.5	3539.4	3387.5	3085.9	2901.1	2866.9	2822.9	2742.6	2667.7	2674.3
37.5°	4059.9	4022.5	3812.3	3374.3	3055.1	2968.2	2903.3	2794.3	2692.0	2672.1
40°	4633.3	4586.0	4354.9	3769.4	3286.2	3146.5	3041.9	2868.0	2731.6	2682.0
42.5°	5313.5	5246.3	4997.6	4234.9	3579.0	3376.5	3219.1	2961.6	2789.9	2714.0
45°	6148.8	6059.6	5707.5	4759.9	3947.7	3678.0	3467.8	3103.6	2879.0	2775.6
47.5°	6992.9	7014.9	6514.2	5360.8	4390.1	4050.0	3779.3	3317.1	3008.9	2874.6
50°	7889.9	7905.3	7316.5	6026.6	4892.0	4470.4	4129.3	3555.9	3189.4	3015.5
52.5°	8589.8	8592.0	8045.0	6723.3	5414.7	4932.7	4506.8	3828.8	3398.5	3202.6
55°	9027.8	9022.3	8555.7	7382.5	6015.6	5418.0	4925.0	4139.2	3653.8	3422.7
57.5°	9345.9	9329.4	8907.9	7949.3	6656.1	5991.4	5398.2	4491.4	3955.4	3684.6
60°	9466.9	9457.0	9146.7	8439.0	7329.7	6625.3	5944.1	4885.4	4297.7	3993.9
62.5°	9513.2	9531.9	9381.1	8913.4	8050.5	7327.5	6543.9	5356.4	4682.8	4343.9
65°	9676.1	9710.2	9679.4	9534.1	8864.9	8149.6	7339.6	5916.6	5103.3	4719.2
67.5°	9998.5	10032.6	10045.8	10277.0	9859.8	9174.2	8332.3	6614.3	5595.2	5108.8
70°	9990.8	9980.9	10214.2	10868.0	11105.7	10592.8	9670.6	7472.7	6181.8	5432.3
72.5°	9093.9	9014.6	9566.0	10861.3	12142.4	12074.2	11304.9	8579.9	6688.1	5471.9
75°	6822.3	6611.0	7585.0	9788.3	12315.2	12915.0	12343.8	9266.6	6568.1	4834.7
77.5°	2917.6	2705.2	3853.0	7246.0	11022.0	12073.1	11390.7	8084.7	5243.0	3197.1
80°	763.8	762.7	1164.4	3285.1	7495.9	8915.6	7821.6	5221.0	2995.7	1142.4
82.5°	315.9	308.2	428.1	1277.7	3662.6	5003.1	4083.0	2328.8	1081.8	309.3
85°	117.8	116.7	208.0	441.3	1292.0	2063.5	1493.4	595.4	269.6	150.8
87.5°	33.0	31.9	45.1	153.0	314.8	477.6	255.3	97.9	75.9	59.4
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°
2372.8	0°	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8
2377.2	2.5°	2380.5	2386.0	2395.9	2403.6	2413.5	2424.5	2439.9	2449.8	2459.7	2466.3
2382.7	5°	2390.4	2402.5	2427.8	2453.1	2482.8	2510.4	2542.3	2565.4	2584.1	2589.6
2402.5	7.5°	2412.4	2432.2	2475.1	2518.1	2565.4	2610.5	2656.7	2696.4	2728.3	2740.4
2437.7	10°	2450.9	2477.3	2537.9	2598.4	2661.1	2730.5	2789.9	2847.1	2892.3	2911.0
2479.5	12.5°	2499.4	2532.4	2611.6	2695.3	2782.2	2877.9	2955.0	3025.4	3081.5	3106.9
2537.9	15°	2562.1	2605.0	2706.3	2818.5	2946.2	3079.3	3177.3	3255.4	3318.2	3349.0
2598.4	17.5°	2630.3	2687.5	2815.2	2984.7	3167.4	3342.4	3456.8	3514.1	3579.0	3608.7
2654.5	20°	2696.4	2766.8	2949.5	3196.0	3439.2	3625.2	3717.7	3733.1	3737.5	3740.8
2707.4	22.5°	2764.6	2859.2	3117.9	3462.3	3723.2	3851.9	3865.1	3799.1	3706.7	3663.7
2759.1	25°	2839.4	2964.9	3338.0	3756.2	3967.5	3982.9	3881.6	3721.0	3546.0	3465.6
2800.9	27.5°	2912.1	3087.0	3602.1	4036.8	4143.6	4008.2	3790.3	3562.5	3351.2	3266.4
2830.6	30°	2984.7	3226.8	3893.8	4282.2	4223.9	3945.5	3646.1	3391.9	3179.5	3090.4
2857.0	32.5°	3058.4	3389.7	4229.4	4459.4	4209.6	3812.3	3466.7	3200.4	3013.3	2919.8
2880.1	35°	3142.1	3590.0	4547.5	4556.3	4113.9	3616.4	3230.1	2971.5	2808.6	2733.8
2907.7	37.5°	3251.0	3844.2	4828.1	4580.5	3946.6	3329.2	2936.3	2700.8	2566.5	2532.4
2948.4	40°	3386.4	4150.2	5042.7	4542.0	3699.0	2980.3	2614.9	2426.7	2350.8	2358.5
3003.4	42.5°	3562.5	4492.5	5193.5	4442.9	3354.5	2620.4	2333.2	2249.5	2285.8	2316.7
3085.9	45°	3791.4	4847.9	5287.1	4274.5	2964.9	2315.6	2167.0	2186.8	2214.3	2217.6
3219.1	47.5°	4084.1	5207.8	5348.7	4020.3	2567.6	2101.0	2061.3	2065.7	2060.2	2037.1
3418.3	50°	4449.5	5557.8	5403.7	3683.5	2229.7	1966.7	1913.9	1898.5	1822.5	1747.7
3683.5	52.5°	4865.5	5879.1	5426.8	3265.3	1966.7	1854.4	1768.6	1671.7	1529.8	1506.7
4017.0	55°	5327.8	6176.3	5367.4	2751.4	1745.5	1710.3	1580.4	1463.7	1448.3	1428.5
4456.1	57.5°	5880.2	6496.6	5246.3	2178.0	1518.8	1541.9	1415.3	1428.5	1401.0	1370.2
5020.7	60°	6484.5	6827.8	5033.9	1655.2	1284.3	1331.7	1372.4	1371.3	1363.6	1338.3
5616.1	62.5°	7028.1	7045.7	4615.7	1267.8	1078.5	1168.8	1279.9	1278.8	1272.2	1257.9
6237.9	65°	7351.7	7012.7	3918.0	998.2	909.1	1034.5	1154.5	1163.3	1164.4	1163.3
6705.7	67.5°	7294.5	6626.4	2960.5	794.6	769.3	898.1	1030.1	1042.2	1051.0	1053.2
6765.1	70°	6647.3	5777.9	1930.4	633.9	644.9	778.1	912.4	924.5	932.2	941.0
5870.3	72.5°	5181.4	4248.1	1105.0	512.9	536.0	674.6	795.7	810.0	814.4	830.9
4085.2	75°	3157.5	2498.3	596.5	403.9	440.2	576.7	680.1	696.6	704.4	724.2
2006.3	77.5°	1501.2	1081.8	340.1	314.8	354.4	471.0	574.5	593.2	572.3	583.3
553.6	80°	507.4	401.7	214.6	239.9	270.7	367.6	460.0	478.7	434.7	432.5
183.8	82.5°	177.2	162.9	136.5	159.6	175.0	263.0	347.8	372.0	323.6	322.5
82.5	85°	69.3	66.0	75.9	86.9	104.6	161.8	228.9	241.0	199.2	160.7
24.2	87.5°	14.3	15.4	18.7	19.8	31.9	56.1	82.5	101.3	80.3	68.2
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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<u>180°</u>
2372.8
2461.9
2591.8
2741.5
2912.1
3106.9
3346.8
3607.6
3749.6
3675.8
3477.7
3276.3
3100.3
2931.9
2750.3
2556.6
2384.9
2345.3
2239.6
2054.7
1757.6
1514.4
1431.8
1364.7
1329.5
1252.4
1163.3
1055.4
945.4
837.5
726.4
574.5
428.1
307.1
158.5
62.7
0.0

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