

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: P940492

Luminaire Tested: **GALN-SB3C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940492
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-SB3C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20014 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

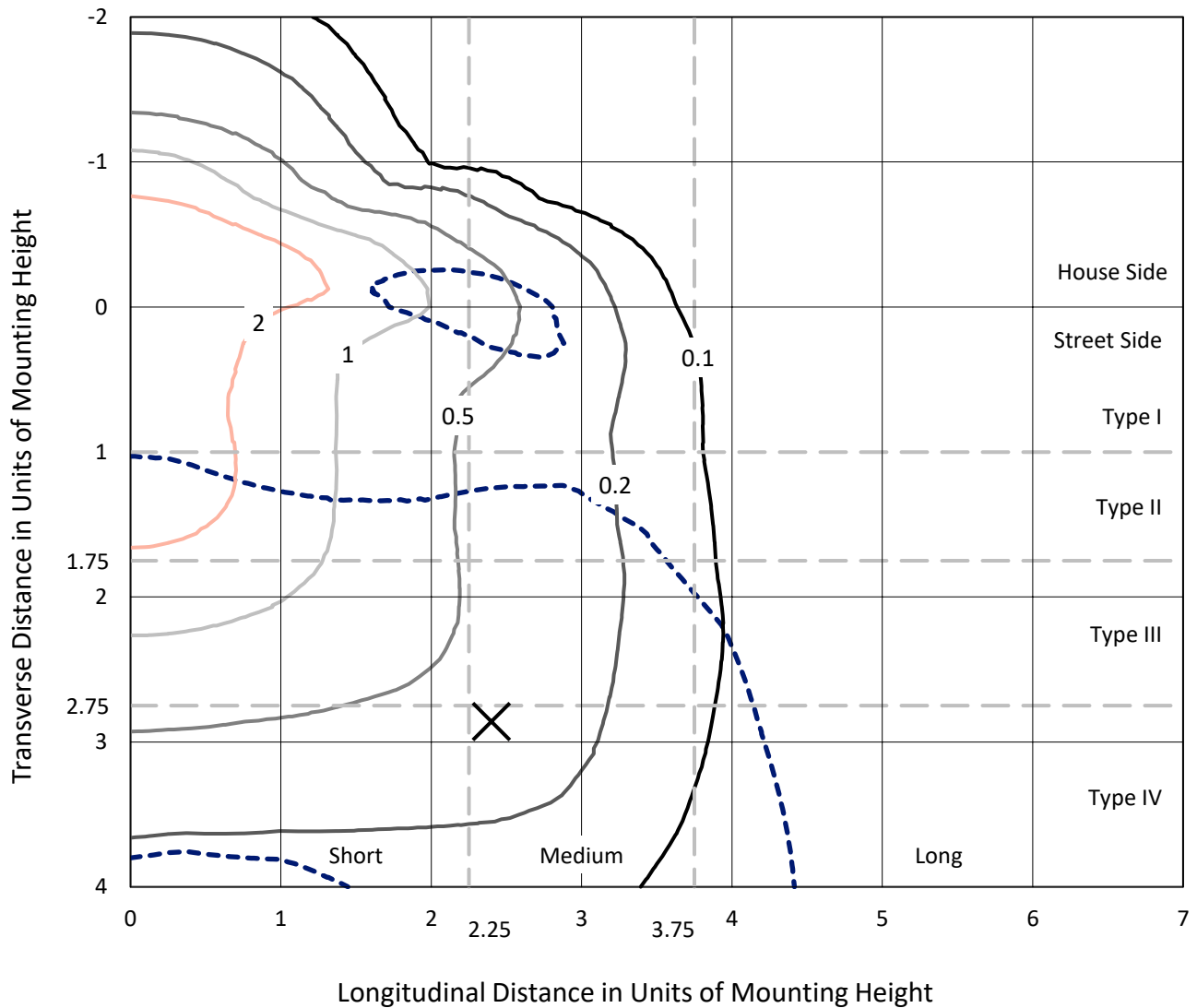
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

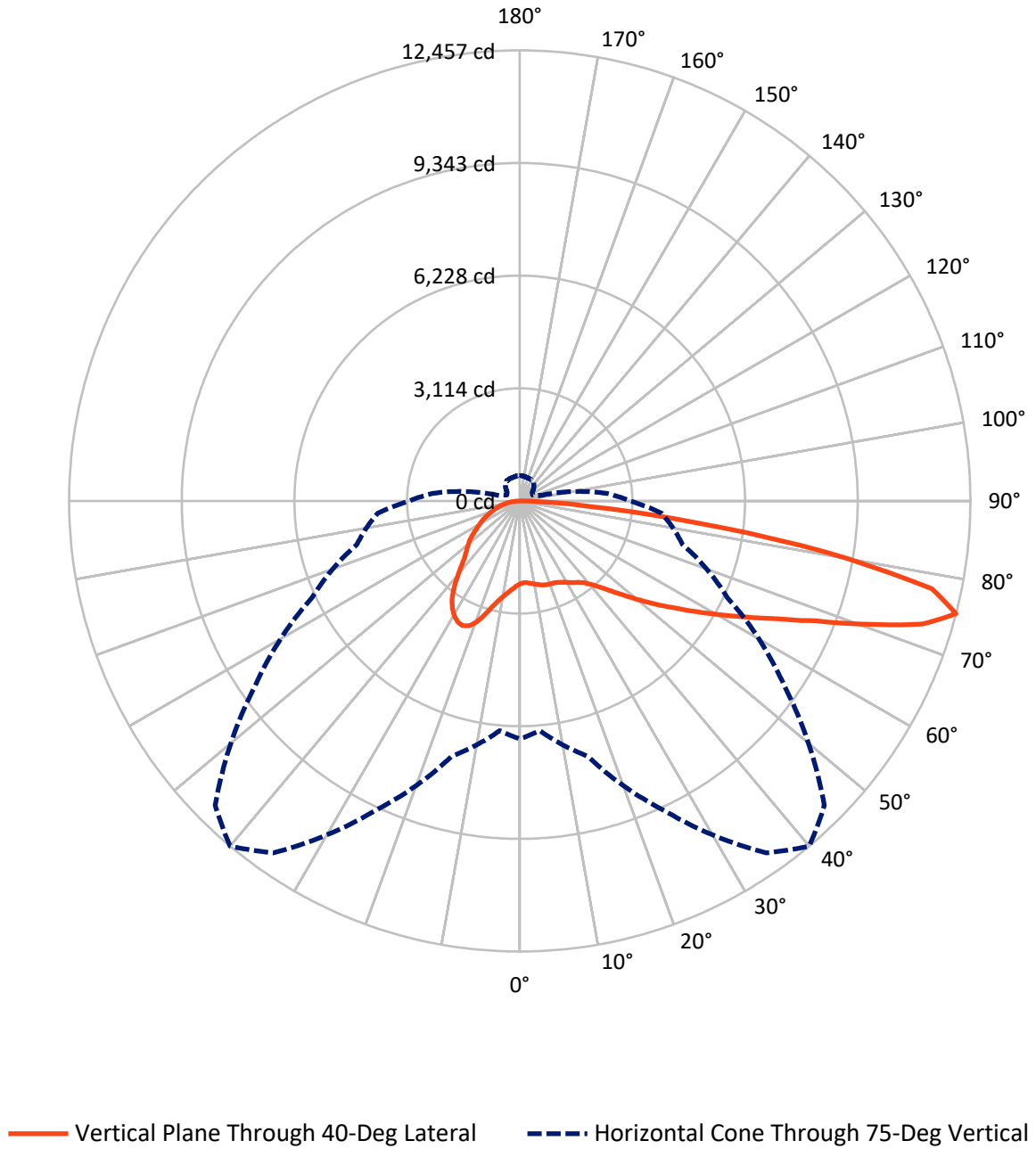
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	6201.0	0.0	6201.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13813.0	0.0	13813.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	20014.0	0.0	20014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.1
10°-20°	767.0	3.8
20°-30°	1400.5	7.0
30°-40°	1986.3	9.9
40°-50°	2682.1	13.4
50°-60°	3608.1	18.0
60°-70°	4579.5	22.9
70°-80°	4156.2	20.8
80°-90°	605.8	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°	20014.0	100.0
0°-180°	20014.0	100.0

Coefficient of Utilization



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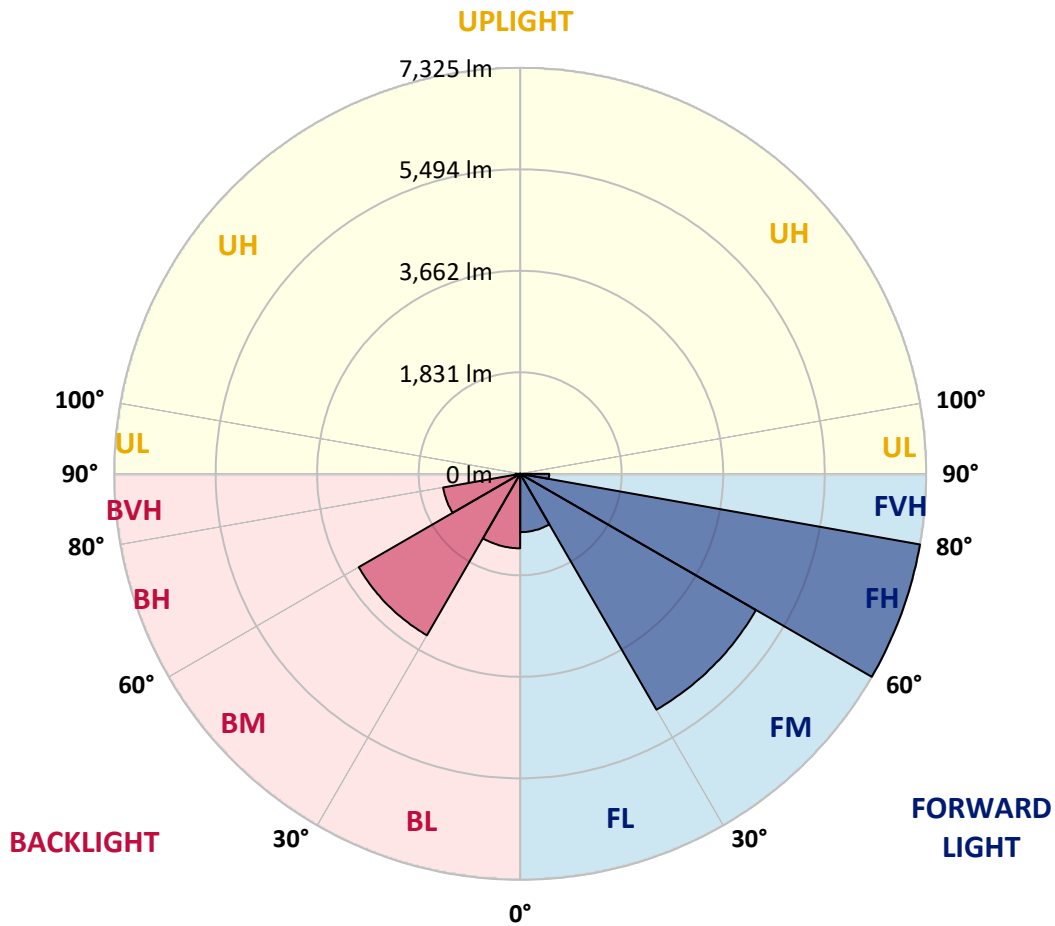
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.8	5.3			
FM (30°-60°)	4913.0	24.5			
FH (60°-80°)	7324.8	36.6			G3/7500
FVH (80°-90°)	522.4	2.6			G4/750
BL (0°-30°)	1343.2	6.7	B3/2500		
BM (30°-60°)	3363.5	16.8	B3/5000		
BH (60°-80°)	1410.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	83.4	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°	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6
2.5°	2253.6	2266.3	2263.2	2258.9	2258.9	2260.0	2258.9	2266.3	2273.8	2281.2
5°	2277.0	2289.7	2283.3	2278.0	2273.8	2272.7	2269.5	2268.5	2272.7	2282.3
7.5°	2322.6	2335.3	2325.8	2316.2	2307.7	2303.5	2299.2	2292.9	2289.7	2295.0
10°	2373.5	2386.3	2374.6	2357.6	2343.8	2338.5	2334.3	2327.9	2323.7	2326.8
12.5°	2424.5	2437.2	2421.3	2398.0	2379.9	2376.7	2371.4	2369.3	2368.2	2367.2
15°	2472.3	2482.9	2462.7	2435.1	2416.0	2410.7	2405.4	2408.6	2413.9	2420.3
17.5°	2509.4	2520.0	2490.3	2454.2	2436.2	2434.1	2430.9	2441.5	2456.3	2472.3
20°	2543.4	2554.0	2515.8	2467.0	2445.7	2445.7	2446.8	2469.1	2490.3	2513.7
22.5°	2591.2	2599.7	2552.9	2486.1	2455.3	2457.4	2465.9	2488.2	2514.7	2546.6
25°	2662.3	2668.7	2611.3	2522.2	2487.1	2493.5	2500.9	2511.5	2537.0	2574.2
27.5°	2776.9	2782.2	2706.9	2585.9	2532.8	2543.4	2554.0	2546.6	2558.3	2590.1
30°	2938.3	2941.5	2845.9	2685.6	2610.3	2615.6	2617.7	2586.9	2564.6	2590.1
32.5°	3129.3	3128.3	3014.7	2806.6	2698.4	2693.1	2675.0	2614.5	2562.5	2584.8
35°	3425.5	3413.8	3267.3	2976.5	2798.2	2765.2	2722.8	2645.3	2573.1	2579.5
37.5°	3915.9	3879.8	3677.1	3254.6	2946.8	2862.9	2800.3	2695.2	2596.5	2577.4
40°	4469.0	4423.3	4200.4	3635.7	3169.7	3034.9	2934.0	2766.3	2634.7	2586.9
42.5°	5125.0	5060.2	4820.3	4084.7	3452.0	3256.7	3104.9	2856.5	2690.9	2617.7
45°	5930.7	5844.7	5505.0	4591.1	3807.7	3547.6	3344.8	2993.5	2776.9	2677.1
47.5°	6744.9	6766.1	6283.1	5170.6	4234.4	3906.4	3645.2	3199.4	2902.2	2772.7
50°	7610.0	7624.9	7057.0	5812.9	4718.4	4311.9	3982.8	3429.8	3076.3	2908.6
52.5°	8285.1	8287.3	7759.7	6484.8	5222.7	4757.7	4346.9	3693.0	3278.0	3089.0
55°	8707.6	8702.3	8252.2	7120.6	5802.2	5225.8	4750.3	3992.4	3524.2	3301.3
57.5°	9014.4	8998.5	8591.9	7667.3	6420.0	5778.9	5206.7	4332.0	3815.1	3554.0
60°	9131.2	9121.6	8822.3	8139.7	7069.7	6390.3	5733.2	4712.1	4145.2	3852.2
62.5°	9175.7	9193.8	9048.4	8597.2	7765.0	7067.6	6311.8	5166.4	4516.7	4189.8
65°	9332.8	9365.8	9336.0	9195.9	8550.5	7860.5	7079.2	5706.7	4922.2	4551.8
67.5°	9643.9	9676.8	9689.5	9912.4	9510.1	8848.8	8036.7	6379.7	5396.7	4927.6
70°	9636.4	9626.9	9851.9	10482.5	10711.8	10217.1	9327.5	7207.7	5962.5	5239.6
72.5°	8771.3	8694.9	9226.7	10476.1	11711.7	11645.9	10903.9	8275.6	6450.8	5277.9
75°	6580.3	6376.5	7316.0	9441.1	11878.4	12456.9	11906.0	8938.0	6335.1	4663.2
77.5°	2814.1	2609.2	3716.4	6989.0	10631.1	11644.8	10986.7	7797.9	5057.1	3083.7
80°	736.7	735.6	1123.1	3168.6	7230.0	8599.3	7544.2	5035.8	2889.4	1101.9
82.5°	304.7	297.2	412.9	1232.4	3532.7	4825.6	3938.2	2246.2	1043.5	298.3
85°	113.6	112.5	200.6	425.7	1246.2	1990.3	1440.5	574.3	260.1	145.4
87.5°	31.8	30.8	43.5	147.6	303.6	460.7	246.3	94.5	73.2	57.3
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°
2288.6	0°	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6	2288.6
2292.9	2.5°	2296.1	2301.4	2310.9	2318.4	2327.9	2338.5	2353.4	2362.9	2372.5	2378.9
2298.2	5°	2305.6	2317.3	2341.7	2366.1	2394.8	2421.3	2452.1	2474.4	2492.4	2497.7
2317.3	7.5°	2326.8	2345.9	2387.3	2428.7	2474.4	2517.9	2562.5	2600.7	2631.5	2643.2
2351.3	10°	2364.0	2389.5	2447.9	2506.2	2566.7	2633.6	2690.9	2746.1	2789.7	2807.7
2391.6	12.5°	2410.7	2442.5	2519.0	2599.7	2683.5	2775.9	2850.2	2918.1	2972.2	2996.7
2447.9	15°	2471.2	2512.6	2610.3	2718.5	2841.7	2970.1	3064.6	3140.0	3200.5	3230.2
2506.2	17.5°	2537.0	2592.2	2715.4	2878.8	3055.0	3223.8	3334.2	3389.4	3452.0	3480.7
2560.4	20°	2600.7	2668.7	2844.9	3082.6	3317.2	3496.6	3585.8	3600.7	3604.9	3608.1
2611.3	22.5°	2666.5	2757.8	3007.3	3339.5	3591.1	3715.3	3728.0	3664.4	3575.2	3533.8
2661.2	25°	2738.7	2859.7	3219.6	3623.0	3826.8	3841.6	3744.0	3589.0	3420.2	3342.7
2701.6	27.5°	2808.8	2977.6	3474.3	3893.6	3996.6	3866.0	3655.9	3436.1	3232.3	3150.6
2730.2	30°	2878.8	3112.4	3755.6	4130.4	4074.1	3805.5	3516.8	3271.6	3066.7	2980.7
2755.7	32.5°	2950.0	3269.5	4079.4	4301.3	4060.3	3677.1	3343.8	3086.9	2906.4	2816.2
2778.0	35°	3030.6	3462.7	4386.2	4394.7	3967.9	3488.1	3115.5	2866.1	2709.0	2636.8
2804.5	37.5°	3135.7	3707.9	4656.9	4418.0	3806.6	3211.1	2832.1	2605.0	2475.5	2442.5
2843.8	40°	3266.3	4003.0	4863.9	4380.9	3567.8	2874.6	2522.2	2340.6	2267.4	2274.8
2896.9	42.5°	3436.1	4333.1	5009.3	4285.3	3235.5	2527.5	2250.4	2169.7	2204.8	2234.5
2976.5	45°	3656.9	4676.0	5099.5	4122.9	2859.7	2233.4	2090.1	2109.2	2135.8	2139.0
3104.9	47.5°	3939.3	5023.1	5159.0	3877.7	2476.5	2026.4	1988.2	1992.5	1987.2	1964.9
3297.1	50°	4291.7	5360.7	5212.0	3552.9	2150.6	1896.9	1846.0	1831.1	1757.9	1685.7
3552.9	52.5°	4693.0	5670.6	5234.3	3149.5	1896.9	1788.7	1705.9	1612.4	1475.5	1453.2
3874.5	55°	5138.8	5957.2	5177.0	2653.8	1683.6	1649.6	1524.3	1411.8	1397.0	1377.8
4298.1	57.5°	5671.7	6266.1	5060.2	2100.7	1464.9	1487.2	1365.1	1377.8	1351.3	1321.6
4842.6	60°	6254.4	6585.6	4855.4	1596.5	1238.8	1284.4	1323.7	1322.6	1315.2	1290.8
5416.9	62.5°	6778.8	6795.8	4452.0	1222.9	1040.3	1127.3	1234.5	1233.5	1227.1	1213.3
6016.7	65°	7090.9	6764.0	3779.0	962.8	876.8	997.8	1113.5	1122.0	1123.1	1122.0
6467.8	67.5°	7035.7	6391.4	2855.5	766.4	742.0	866.2	993.6	1005.3	1013.7	1015.9
6525.1	70°	6411.6	5573.0	1861.9	611.4	622.0	750.5	880.0	891.7	899.1	907.6
5662.1	72.5°	4997.6	4097.5	1065.8	494.7	517.0	650.7	767.5	781.3	785.5	801.4
3940.3	75°	3045.5	2409.6	575.3	389.6	424.6	556.2	656.0	671.9	679.4	698.5
1935.1	77.5°	1447.9	1043.5	328.0	303.6	341.8	454.3	554.1	572.2	552.0	562.6
533.9	80°	489.4	387.5	207.0	231.4	261.1	354.5	443.7	461.8	419.3	417.2
177.3	82.5°	170.9	157.1	131.6	153.9	168.8	253.7	335.4	358.8	312.1	311.0
79.6	85°	66.9	63.7	73.2	83.9	100.8	156.0	220.8	232.5	192.1	155.0
23.4	87.5°	13.8	14.9	18.0	19.1	30.8	54.1	79.6	97.7	77.5	65.8
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>
2288.6
2374.6
2499.9
2644.2
2808.8
2996.7
3228.1
3479.6
3616.6
3545.5
3354.4
3160.1
2990.3
2827.9
2652.7
2465.9
2300.3
2262.1
2160.2
1981.8
1695.2
1460.6
1381.0
1316.3
1282.3
1208.0
1122.0
1018.0
911.8
807.8
700.6
554.1
412.9
296.2
152.9
60.5
0.0

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