

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: P949575

Luminaire Tested: **GALN-SB4B-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23830 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

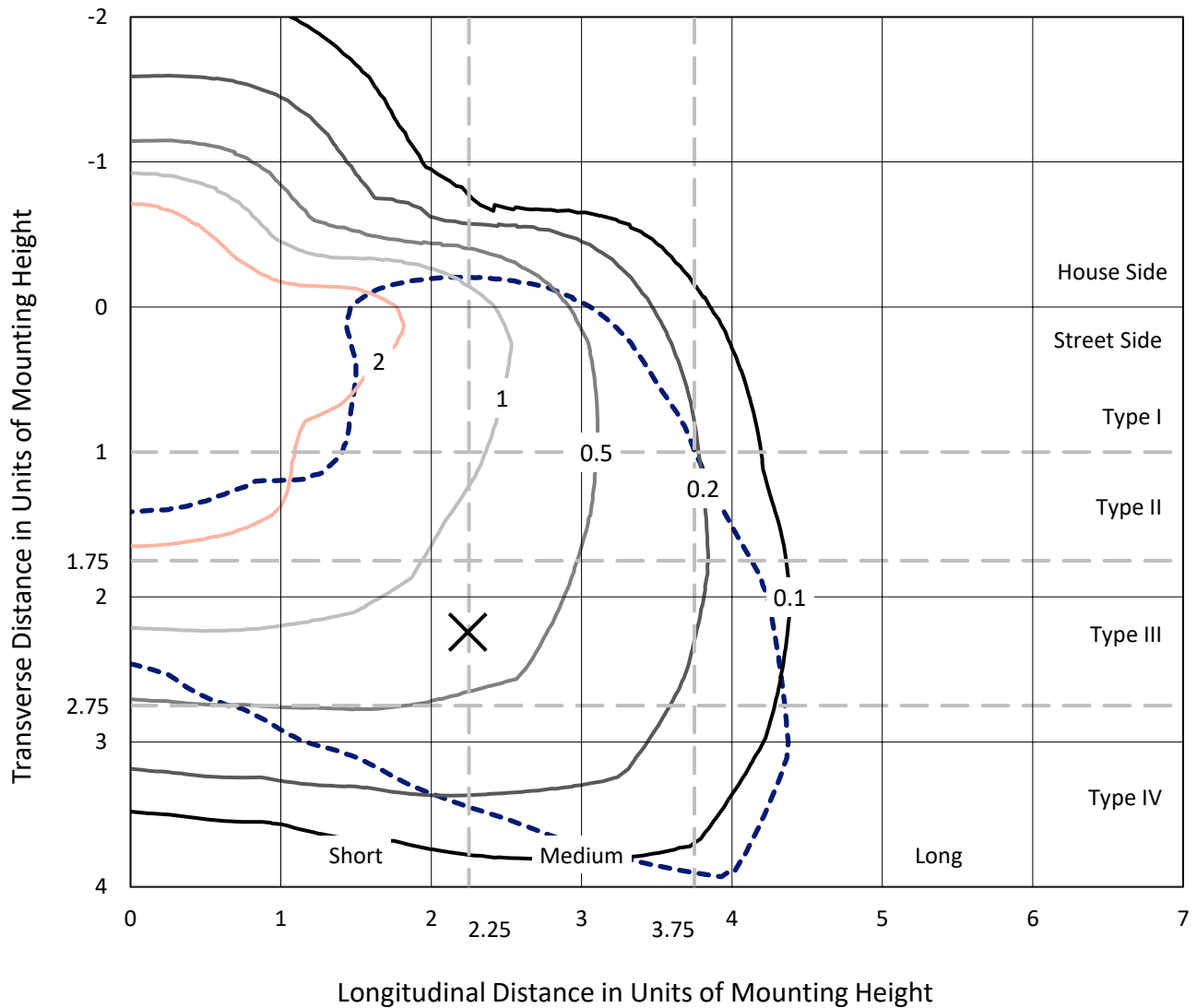
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

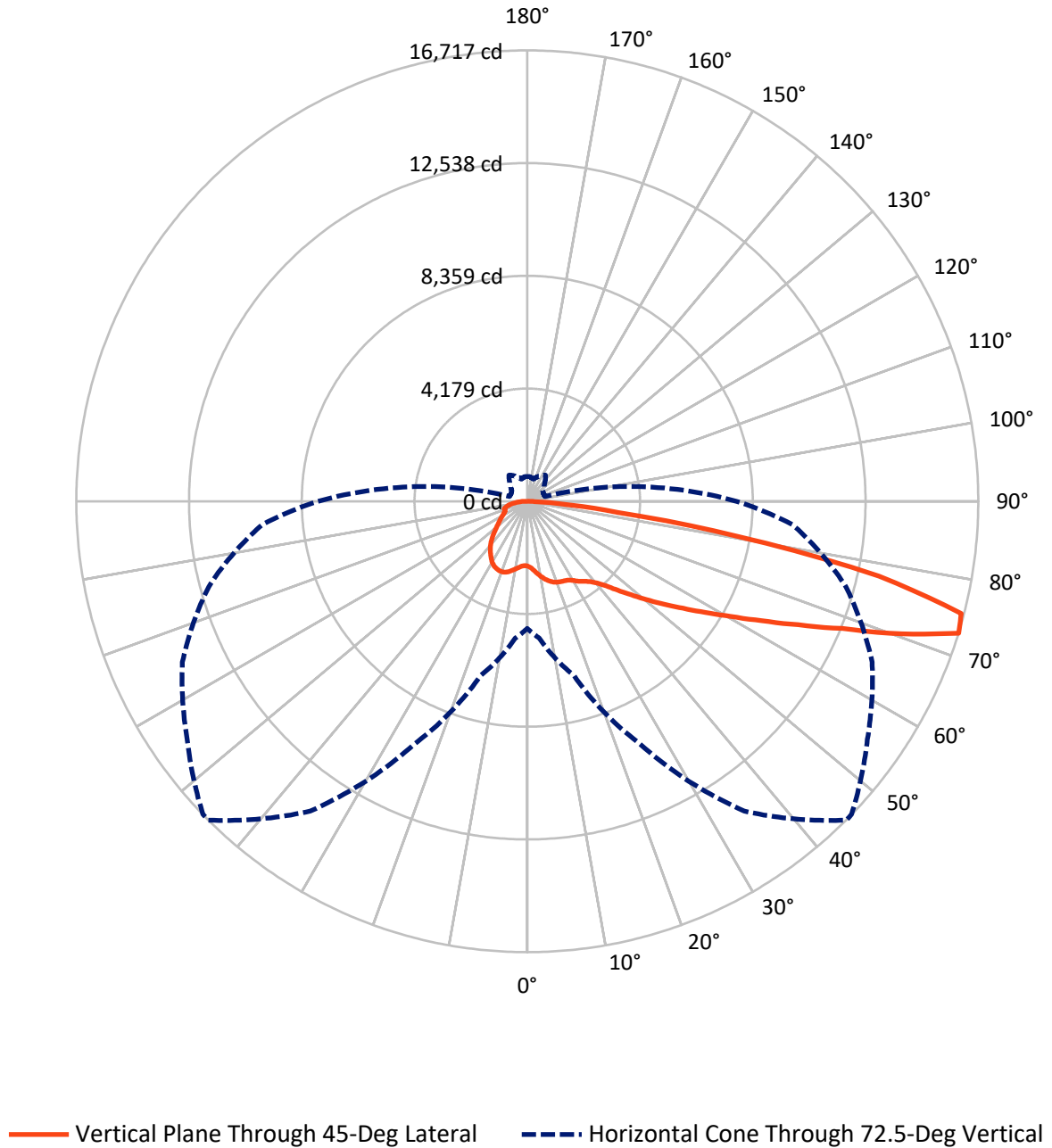
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5387.2	0.0	5387.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18442.9	0.0	18442.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	23830.0	0.0	23830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	1.0
10°-20°	815.8	3.4
20°-30°	1419.1	6.0
30°-40°	2034.4	8.5
40°-50°	2864.5	12.0
50°-60°	4387.6	18.4
60°-70°	6356.1	26.7
70°-80°	5075.7	21.3
80°-90°	632.2	2.7
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°	23830.0	100.0
0°-180°	23830.0	100.0



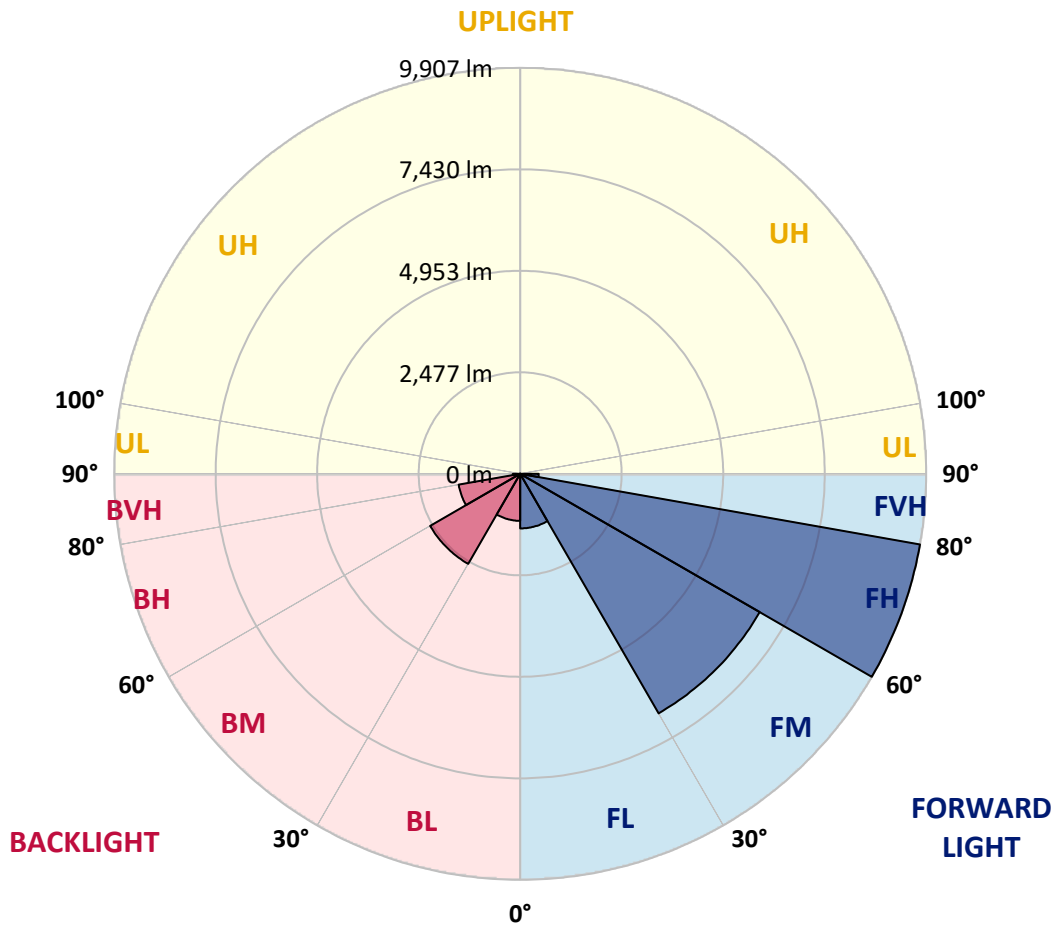
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.6	5.6			
FM (30°-60°)	6749.9	28.3			
FH (60°-80°)	9906.8	41.6			G4/12000
FVH (80°-90°)	453.5	1.9			G3/500
BL (0°-30°)	1147.0	4.8	B3/2500		
BM (30°-60°)	2536.6	10.6	B3/5000		
BH (60°-80°)	1525.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	178.6	0.7			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0
2.5°	2498.1	2514.5	2499.4	2485.6	2479.3	2463.0	2461.7	2451.7	2445.4	2427.8
5°	2672.6	2694.0	2668.9	2641.2	2616.1	2576.0	2570.9	2542.1	2509.4	2471.8
7.5°	2869.7	2888.5	2859.7	2818.2	2774.3	2707.8	2706.5	2653.8	2602.3	2538.3
10°	3041.7	3066.8	3027.9	2971.4	2916.2	2840.8	2832.1	2771.8	2706.5	2623.7
12.5°	3193.6	3211.2	3173.5	3104.5	3040.4	2965.1	2953.8	2887.3	2814.5	2720.3
15°	3314.1	3336.7	3286.5	3212.4	3144.6	3070.6	3060.5	3000.3	2927.5	2828.3
17.5°	3393.2	3412.0	3360.6	3277.7	3212.4	3150.9	3143.4	3093.2	3029.1	2928.7
20°	3423.3	3443.4	3389.4	3305.3	3245.1	3197.4	3193.6	3157.2	3113.3	3021.6
22.5°	3453.5	3472.3	3402.0	3314.1	3261.4	3231.3	3230.0	3206.1	3188.6	3113.3
25°	3575.2	3580.2	3486.1	3359.3	3284.0	3257.6	3256.4	3255.1	3262.6	3203.6
27.5°	3680.7	3679.4	3599.1	3479.8	3363.1	3307.8	3306.6	3319.1	3343.0	3294.0
30°	3835.1	3821.3	3725.9	3601.6	3494.9	3409.5	3402.0	3390.7	3409.5	3370.6
32.5°	4162.7	4118.8	3964.4	3743.4	3604.1	3538.8	3528.8	3458.5	3466.0	3442.2
35°	4632.2	4574.5	4368.6	4012.1	3739.7	3646.8	3641.8	3552.6	3537.6	3516.2
37.5°	5190.8	5119.3	4879.5	4401.2	3973.2	3772.3	3764.8	3684.4	3622.9	3600.3
40°	5752.0	5661.6	5463.3	4875.8	4317.1	3982.0	3958.1	3836.3	3766.0	3728.4
42.5°	6296.8	6221.5	6052.0	5408.0	4741.4	4288.3	4235.5	4027.1	3974.4	3939.3
45°	6778.9	6711.1	6586.8	5976.7	5238.5	4705.0	4653.6	4313.4	4297.0	4297.0
47.5°	7170.5	7155.5	7023.6	6556.7	5824.8	5179.5	5090.4	4711.3	4755.2	4823.0
50°	7604.9	7563.4	7422.8	7127.8	6514.0	5723.1	5650.3	5199.6	5364.1	5549.9
52.5°	8004.1	8026.7	7869.7	7722.9	7292.3	6329.4	6201.4	5775.8	6131.1	6438.7
55°	8414.6	8415.8	8371.9	8351.8	8108.3	6999.8	6859.2	6468.8	7033.7	7415.3
57.5°	8800.0	8802.5	8867.7	9044.8	9054.8	7773.1	7613.7	7319.9	8036.7	8425.9
60°	9143.9	9161.5	9339.8	9754.0	9887.1	8659.4	8508.7	8325.4	9073.6	9465.3
62.5°	9259.4	9323.4	9720.1	10308.9	10709.3	9746.5	9598.4	9489.1	10163.3	10527.3
65°	9063.6	9210.5	9977.5	10767.1	11555.4	11038.2	10891.4	10772.1	11295.6	11638.3
67.5°	8582.8	8772.3	9962.4	11247.9	12582.3	12592.4	12455.5	12175.6	12509.5	12641.3
70°	7316.1	7599.9	9084.9	11427.4	13761.1	14717.6	14585.8	13865.3	13720.9	13083.2
72.5°	4713.8	5095.4	6689.7	9949.9	14023.4	16717.4	16709.9	15390.5	14103.8	12224.5
75°	1719.8	1953.3	3108.2	6245.3	11771.4	16615.7	16664.7	15129.4	12874.8	9442.7
77.5°	626.4	685.4	1014.3	2400.2	7239.6	13331.8	13433.4	12095.2	9164.0	4738.9
80°	328.9	361.5	519.7	931.5	3102.0	7917.5	8076.9	7188.1	4307.1	1427.3
82.5°	182.0	197.1	291.2	505.9	1397.2	3385.7	3481.1	2839.6	1515.2	605.1
85°	97.9	104.2	136.8	276.2	682.9	1173.7	1200.1	848.6	603.8	355.3
87.5°	28.9	35.1	45.2	87.9	267.4	263.6	269.9	168.2	238.5	179.5
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°
2404.0	0°	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0	2404.0
2422.8	2.5°	2415.3	2411.5	2397.7	2391.4	2383.9	2382.6	2388.9	2390.2	2391.4	2392.7
2450.4	5°	2437.9	2425.3	2412.8	2405.2	2407.7	2409.0	2421.6	2430.3	2436.6	2441.6
2501.9	7.5°	2481.8	2471.8	2450.4	2449.2	2452.9	2464.2	2480.6	2500.6	2511.9	2520.7
2568.4	10°	2547.1	2528.3	2503.2	2506.9	2514.5	2530.8	2564.7	2581.0	2599.8	2616.1
2650.0	12.5°	2613.6	2597.3	2568.4	2570.9	2583.5	2612.4	2645.0	2665.1	2677.6	2690.2
2737.9	15°	2700.2	2671.4	2640.0	2640.0	2662.6	2694.0	2709.0	2725.4	2732.9	2746.7
2832.1	17.5°	2789.4	2751.7	2710.3	2707.8	2735.4	2750.5	2759.2	2761.8	2764.3	2779.3
2923.7	20°	2878.5	2837.1	2778.1	2773.1	2779.3	2776.8	2775.6	2773.1	2776.8	2795.7
3017.8	22.5°	2966.4	2918.7	2837.1	2814.5	2796.9	2773.1	2771.8	2770.5	2773.1	2791.9
3119.5	25°	3069.3	3011.6	2902.4	2834.6	2775.6	2742.9	2746.7	2747.9	2750.5	2765.5
3225.0	27.5°	3181.0	3117.0	2962.6	2828.3	2721.6	2699.0	2692.7	2696.5	2705.3	2729.1
3330.4	30°	3292.8	3217.4	3017.8	2803.2	2653.8	2622.4	2602.3	2611.1	2638.7	2662.6
3422.1	32.5°	3394.4	3319.1	3061.8	2747.9	2567.2	2518.2	2491.9	2503.2	2530.8	2539.6
3523.7	35°	3513.7	3428.3	3080.6	2660.1	2473.0	2397.7	2362.6	2346.2	2360.0	2351.3
3643.0	37.5°	3646.8	3557.6	3078.1	2544.6	2362.6	2275.9	2227.0	2165.5	2136.6	2106.5
3818.8	40°	3843.9	3715.8	3048.0	2405.2	2225.7	2146.6	2058.8	1954.6	1889.3	1830.3
4102.5	42.5°	4112.5	3935.5	2992.7	2252.1	2071.3	1997.3	1878.0	1756.2	1653.3	1555.4
4533.0	45°	4513.0	4223.0	2923.7	2088.9	1904.4	1831.5	1702.2	1565.4	1448.7	1323.1
5144.4	47.5°	5090.4	4609.6	2858.4	1903.1	1728.6	1662.1	1545.3	1418.5	1280.5	1158.7
6028.2	50°	5883.8	5164.5	2798.2	1722.3	1555.4	1505.2	1412.3	1283.0	1143.6	1045.7
7063.8	52.5°	6893.1	5918.9	2773.1	1547.8	1393.4	1374.6	1300.5	1180.0	1048.2	965.4
8271.5	55°	8051.8	6821.5	2773.1	1380.9	1251.6	1257.9	1206.4	1094.7	980.4	906.4
9516.8	57.5°	9234.3	7735.4	2722.8	1226.5	1131.1	1157.4	1124.8	1026.9	923.9	847.4
10826.1	60°	10323.9	8501.2	2519.5	1085.9	1024.4	1065.8	1044.4	960.3	834.8	770.8
11920.7	62.5°	11161.3	8933.0	2127.8	974.1	936.5	984.2	972.9	872.5	818.5	792.1
12819.6	65°	11580.5	8862.7	1626.9	875.0	862.4	936.5	912.6	908.9	866.2	836.1
13112.1	67.5°	11323.2	8257.7	1180.0	802.2	819.7	892.5	984.2	999.3	920.2	861.2
12288.6	70°	10194.6	7163.0	878.7	733.1	765.8	893.8	1122.3	1045.7	902.6	833.5
9855.7	72.5°	7755.5	5341.5	681.7	660.3	695.5	900.1	1183.8	1024.4	852.4	921.4
6139.9	75°	4435.1	2932.5	547.3	571.2	607.6	841.1	1152.4	969.1	813.5	846.1
2432.9	77.5°	1690.9	1127.3	451.9	483.3	488.3	734.4	1102.2	965.4	774.5	755.7
729.4	80°	586.2	440.6	374.1	384.1	377.9	652.8	1057.0	839.8	633.9	567.4
301.3	82.5°	239.8	219.7	296.3	283.7	268.6	507.2	853.6	686.7	518.5	458.2
145.6	85°	104.2	139.3	195.8	172.0	155.7	351.5	684.2	581.2	438.1	377.9
47.7	87.5°	21.3	52.7	82.9	77.8	80.3	234.7	485.8	413.0	310.1	232.2
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>
2404.0
2397.7
2444.2
2523.2
2612.4
2695.2
2751.7
2784.4
2803.2
2804.4
2785.6
2753.0
2688.9
2570.9
2378.9
2125.3
1834.1
1546.6
1308.1
1144.9
1039.4
959.1
898.8
834.8
760.7
783.3
826.0
851.1
822.3
913.9
846.1
689.2
548.6
453.2
376.6
182.0
0.0

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