

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: P949722

Luminaire Tested: **GALN-SB4B-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949722
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-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21545 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

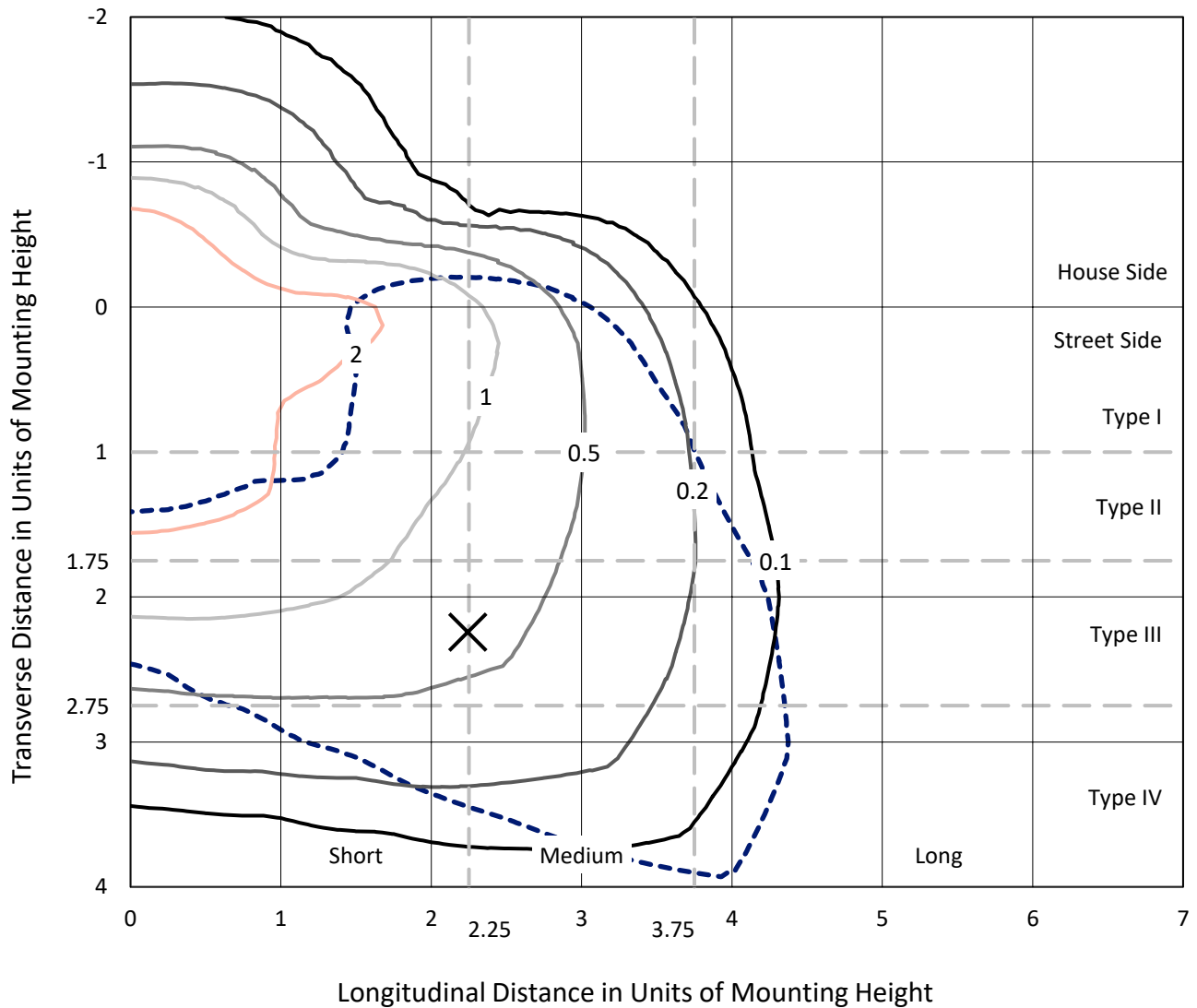
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

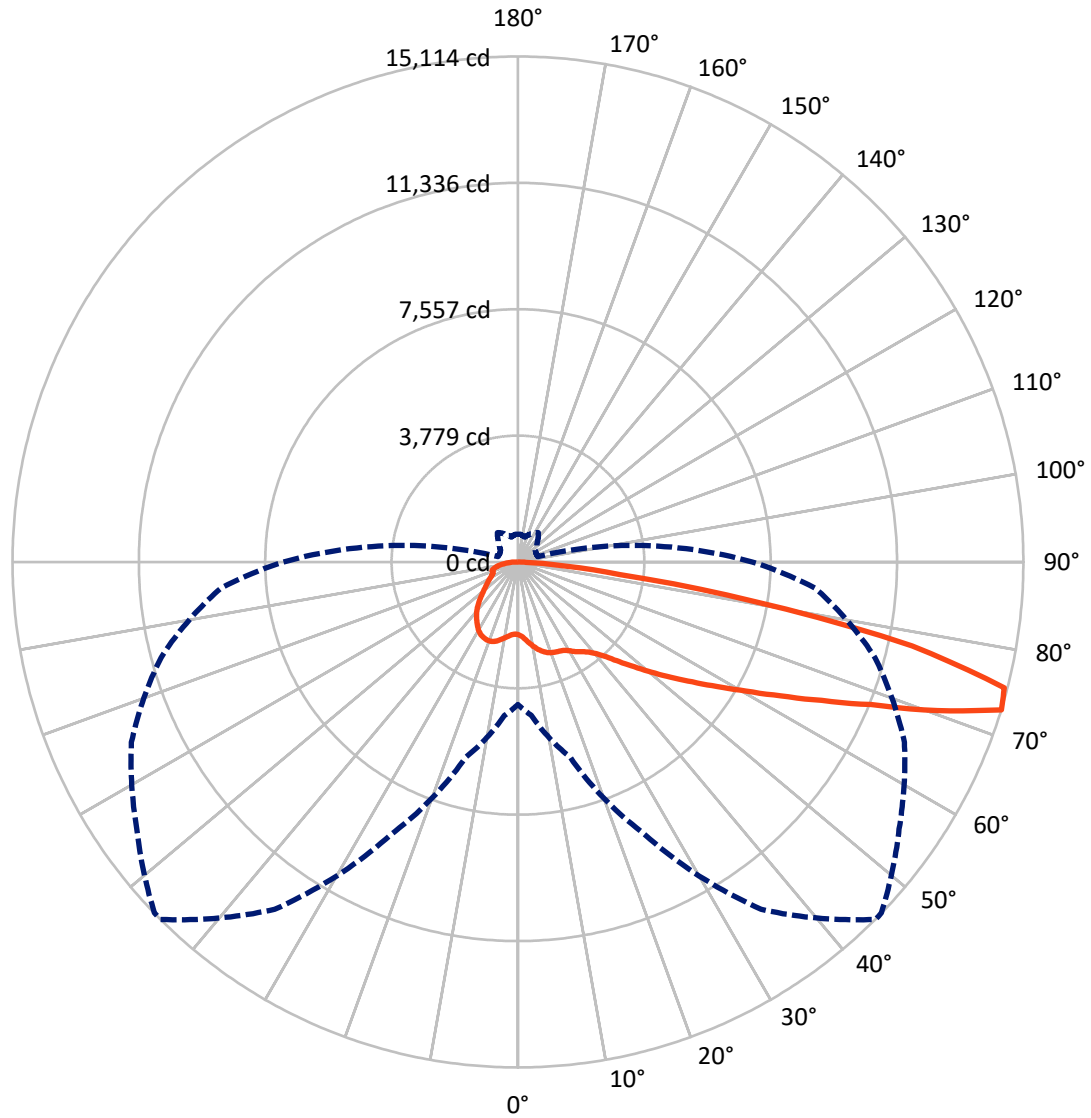
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4870.6	0.0	4870.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16674.4	0.0	16674.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	21545.0	0.0	21545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.0
10°-20°	737.6	3.4
20°-30°	1283.0	6.0
30°-40°	1839.3	8.5
40°-50°	2589.8	12.0
50°-60°	3966.9	18.4
60°-70°	5746.6	26.7
70°-80°	4589.0	21.3
80°-90°	571.5	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°	21545.0	100.0
0°-180°	21545.0	100.0

Coefficient of Utilization



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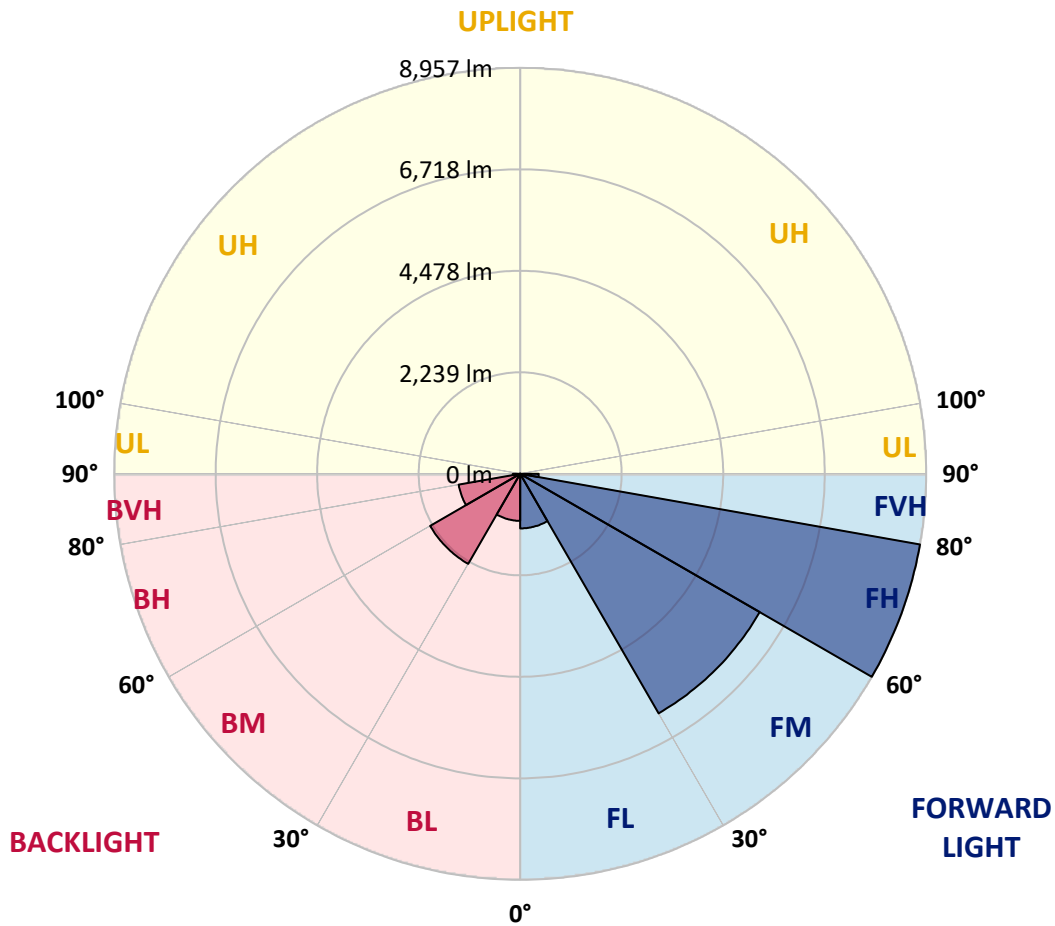
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.8	5.6			
FM (30°-60°)	6102.7	28.3			
FH (60°-80°)	8956.9	41.6			G4/12000
FVH (80°-90°)	410.0	1.9			G3/500
BL (0°-30°)	1037.0	4.8	B3/2500		
BM (30°-60°)	2293.4	10.6	B2/2500		
BH (60°-80°)	1378.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	161.5	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°	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5
2.5°	2258.6	2273.3	2259.7	2247.2	2241.6	2226.8	2225.7	2216.6	2210.9	2195.0
5°	2416.4	2435.6	2413.0	2388.0	2365.3	2329.0	2324.4	2298.3	2268.8	2234.8
7.5°	2594.5	2611.6	2585.5	2548.0	2508.3	2448.1	2447.0	2399.3	2352.8	2294.9
10°	2750.0	2772.7	2737.6	2686.5	2636.5	2568.4	2560.5	2506.0	2447.0	2372.1
12.5°	2887.4	2903.3	2869.2	2806.8	2748.9	2680.8	2670.6	2610.4	2544.6	2459.5
15°	2996.3	3016.8	2971.4	2904.4	2843.1	2776.1	2767.1	2712.6	2646.8	2557.1
17.5°	3067.8	3084.9	3038.3	2963.4	2904.4	2848.8	2842.0	2796.6	2738.7	2647.9
20°	3095.1	3113.2	3064.4	2988.4	2933.9	2890.8	2887.4	2854.5	2814.7	2731.9
22.5°	3122.3	3139.3	3075.8	2996.3	2948.7	2921.4	2920.3	2898.7	2882.8	2814.7
25°	3232.4	3236.9	3151.8	3037.2	2969.1	2945.3	2944.1	2943.0	2949.8	2896.4
27.5°	3327.7	3326.6	3254.0	3146.1	3040.6	2990.7	2989.5	3000.9	3022.4	2978.2
30°	3467.3	3454.9	3368.6	3256.2	3159.8	3082.6	3075.8	3065.6	3082.6	3047.4
32.5°	3763.6	3723.8	3584.2	3384.5	3258.5	3199.5	3190.4	3126.8	3133.7	3112.1
35°	4188.0	4135.8	3949.7	3627.4	3381.1	3297.1	3292.6	3212.0	3198.4	3179.1
37.5°	4693.1	4628.4	4411.6	3979.2	3592.2	3410.6	3403.8	3331.1	3275.5	3255.1
40°	5200.4	5118.7	4939.4	4408.2	3903.2	3600.1	3578.6	3468.5	3404.9	3370.9
42.5°	5693.0	5624.9	5471.7	4889.5	4286.8	3877.1	3829.4	3641.0	3593.3	3561.5
45°	6128.8	6067.6	5955.2	5403.6	4736.2	4253.9	4207.3	3899.8	3885.0	3885.0
47.5°	6483.0	6469.3	6350.2	5928.0	5266.3	4682.9	4602.3	4259.5	4299.3	4360.6
50°	6875.7	6838.2	6711.1	6444.4	5889.4	5174.3	5108.5	4701.1	4849.7	5017.7
52.5°	7236.6	7257.0	7115.1	6982.3	6593.1	5722.5	5606.8	5222.0	5543.2	5821.3
55°	7607.7	7608.9	7569.1	7551.0	7330.8	6328.6	6201.5	5848.5	6359.2	6704.3
57.5°	7956.2	7958.4	8017.4	8177.5	8186.6	7027.7	6883.6	6618.0	7266.1	7617.9
60°	8267.1	8283.0	8444.2	8818.7	8939.0	7829.0	7692.8	7527.1	8203.6	8557.7
62.5°	8371.6	8429.4	8788.1	9320.4	9682.4	8811.9	8678.0	8579.3	9188.7	9517.9
65°	8194.5	8327.3	9020.8	9734.7	10447.4	9979.8	9847.0	9739.2	10212.5	10522.3
67.5°	7759.8	7931.2	9007.1	10169.3	11375.8	11384.9	11261.2	11008.1	11310.0	11429.2
70°	6614.6	6871.1	8213.8	10331.6	12441.6	13306.4	13187.2	12535.8	12405.2	11828.7
72.5°	4261.8	4606.9	6048.3	8995.8	12678.8	15114.4	15107.6	13914.8	12751.4	11052.4
75°	1554.9	1766.0	2810.2	5646.5	10642.6	15022.5	15066.8	13678.7	11640.3	8537.3
77.5°	566.4	619.7	917.1	2170.1	6545.4	12053.4	12145.3	10935.5	8285.3	4284.5
80°	297.4	326.9	469.9	842.1	2804.5	7158.3	7302.4	6498.8	3894.1	1290.5
82.5°	164.6	178.2	263.3	457.4	1263.2	3061.0	3147.3	2567.3	1369.9	547.1
85°	88.5	94.2	123.7	249.7	617.4	1061.2	1085.0	767.2	545.9	321.2
87.5°	26.1	31.8	40.9	79.4	241.7	238.3	244.0	152.1	215.6	162.3
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°
2173.5	0°	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5	2173.5
2190.5	2.5°	2183.7	2180.3	2167.8	2162.1	2155.3	2154.2	2159.9	2161.0	2162.1	2163.3
2215.5	5°	2204.1	2192.8	2181.4	2174.6	2176.9	2178.0	2189.4	2197.3	2203.0	2207.5
2262.0	7.5°	2243.8	2234.8	2215.5	2214.3	2217.7	2227.9	2242.7	2260.9	2271.1	2279.0
2322.2	10°	2302.9	2285.8	2263.1	2266.5	2273.3	2288.1	2318.7	2333.5	2350.5	2365.3
2395.9	12.5°	2363.0	2348.3	2322.2	2324.4	2335.8	2361.9	2391.4	2409.5	2420.9	2432.2
2475.4	15°	2441.3	2415.2	2386.8	2386.8	2407.3	2435.6	2449.3	2464.0	2470.8	2483.3
2560.5	17.5°	2521.9	2487.9	2450.4	2448.1	2473.1	2486.7	2494.7	2496.9	2499.2	2512.8
2643.3	20°	2602.5	2565.0	2511.7	2507.2	2512.8	2510.6	2509.4	2507.2	2510.6	2527.6
2728.5	22.5°	2681.9	2638.8	2565.0	2544.6	2528.7	2507.2	2506.0	2504.9	2507.2	2524.2
2820.4	25°	2775.0	2722.8	2624.1	2562.8	2509.4	2479.9	2483.3	2484.5	2486.7	2500.3
2915.7	27.5°	2876.0	2818.1	2678.5	2557.1	2460.6	2440.2	2434.5	2437.9	2445.9	2467.4
3011.1	30°	2977.0	2908.9	2728.5	2534.4	2399.3	2371.0	2352.8	2360.7	2385.7	2407.3
3093.9	32.5°	3069.0	3000.9	2768.2	2484.5	2321.0	2276.8	2252.9	2263.1	2288.1	2296.0
3185.9	35°	3176.8	3099.6	2785.2	2405.0	2235.9	2167.8	2136.0	2121.3	2133.7	2125.8
3293.7	37.5°	3297.1	3216.5	2783.0	2300.6	2136.0	2057.7	2013.4	1957.8	1931.7	1904.5
3452.6	40°	3475.3	3359.5	2755.7	2174.6	2012.3	1940.8	1861.4	1767.2	1708.1	1654.8
3709.1	42.5°	3718.2	3558.1	2705.8	2036.1	1872.7	1805.7	1697.9	1587.8	1494.8	1406.2
4098.4	45°	4080.2	3818.0	2643.3	1888.6	1721.8	1655.9	1539.0	1415.3	1309.8	1196.3
4651.1	47.5°	4602.3	4167.6	2584.3	1720.6	1562.9	1502.7	1397.2	1282.5	1157.7	1047.6
5450.1	50°	5319.6	4669.3	2529.9	1557.2	1406.2	1360.8	1276.8	1159.9	1034.0	945.4
6386.5	52.5°	6232.1	5351.4	2507.2	1399.4	1259.8	1242.8	1175.8	1066.9	947.7	872.8
7478.3	55°	7279.7	6167.4	2507.2	1248.5	1131.6	1137.2	1090.7	989.7	886.4	819.4
8604.2	57.5°	8348.9	6993.7	2461.8	1108.9	1022.6	1046.4	1016.9	928.4	835.3	766.1
9788.0	60°	9334.0	7686.0	2277.9	981.8	926.1	963.6	944.3	868.3	754.8	696.9
10777.7	62.5°	10091.0	8076.5	1923.8	880.7	846.7	889.8	879.6	788.8	740.0	716.2
11590.3	65°	10470.1	8012.9	1470.9	791.1	779.7	846.7	825.1	821.7	783.1	755.9
11854.8	67.5°	10237.4	7465.8	1066.9	725.2	741.1	807.0	889.8	903.4	831.9	778.6
11110.2	70°	9217.1	6476.1	794.5	662.8	692.3	808.1	1014.7	945.4	816.0	753.6
8910.7	72.5°	7011.9	4829.3	616.3	597.0	628.8	813.8	1070.3	926.1	770.6	833.1
5551.1	75°	4009.9	2651.3	494.8	516.4	549.3	760.4	1041.9	876.2	735.5	765.0
2199.6	77.5°	1528.8	1019.2	408.6	437.0	441.5	664.0	996.5	872.8	700.3	683.3
659.4	80°	530.0	398.4	338.2	347.3	341.6	590.2	955.6	759.3	573.2	513.0
272.4	82.5°	216.8	198.6	267.9	256.5	242.9	458.5	771.8	620.8	468.7	414.3
131.7	85°	94.2	126.0	177.1	155.5	140.7	317.8	618.6	525.5	396.1	341.6
43.1	87.5°	19.3	47.7	74.9	70.4	72.6	212.2	439.2	373.4	280.3	210.0
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>
2173.5
2167.8
2209.8
2281.3
2361.9
2436.8
2487.9
2517.4
2534.4
2535.5
2518.5
2489.0
2431.1
2324.4
2150.8
1921.5
1658.2
1398.3
1182.6
1035.1
939.8
867.1
812.6
754.8
687.8
708.2
746.8
769.5
743.4
826.3
765.0
623.1
496.0
409.7
340.5
164.6
0.0

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