

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: P941547

Luminaire Tested: **GALN-SB5A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21689 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

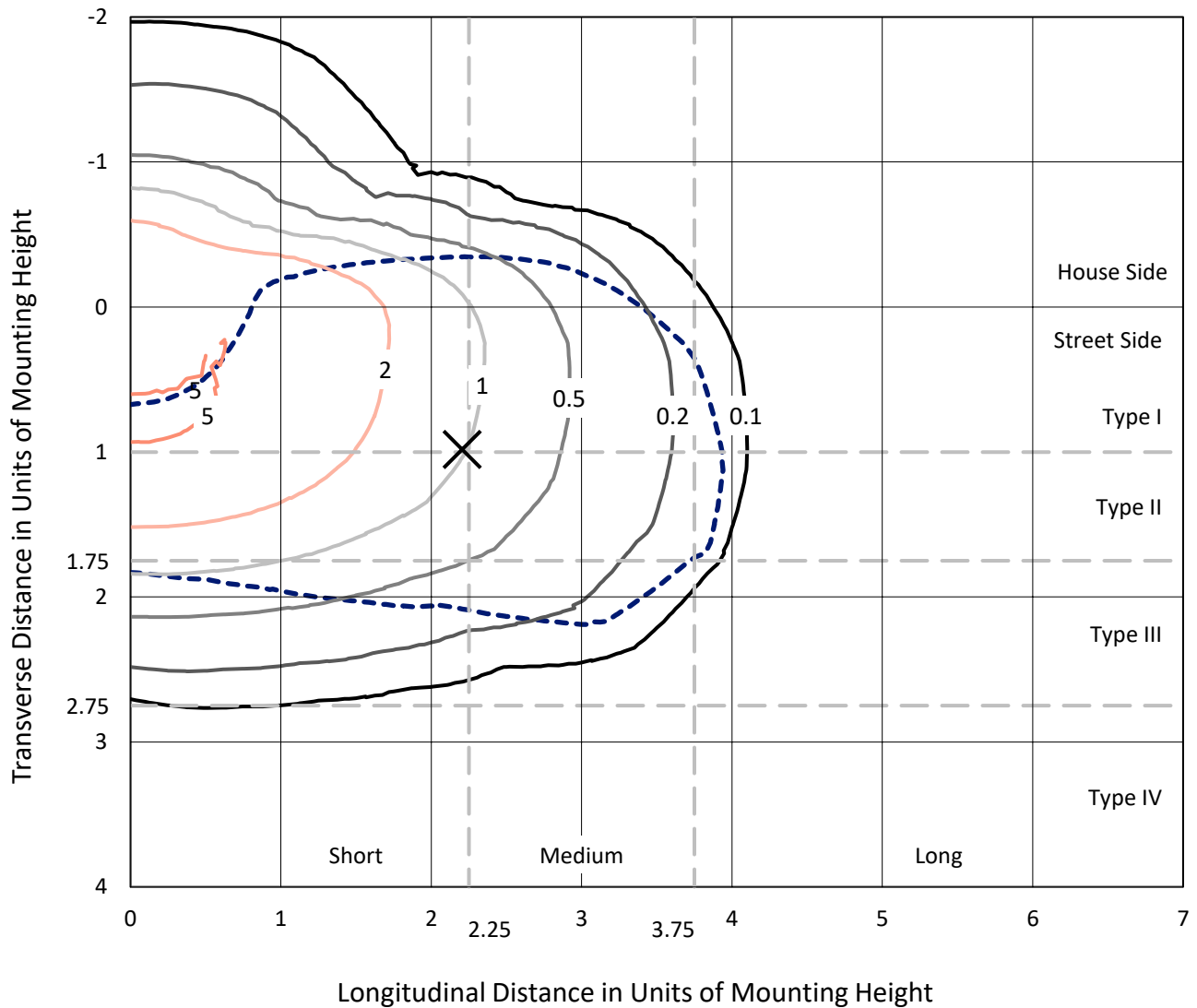
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

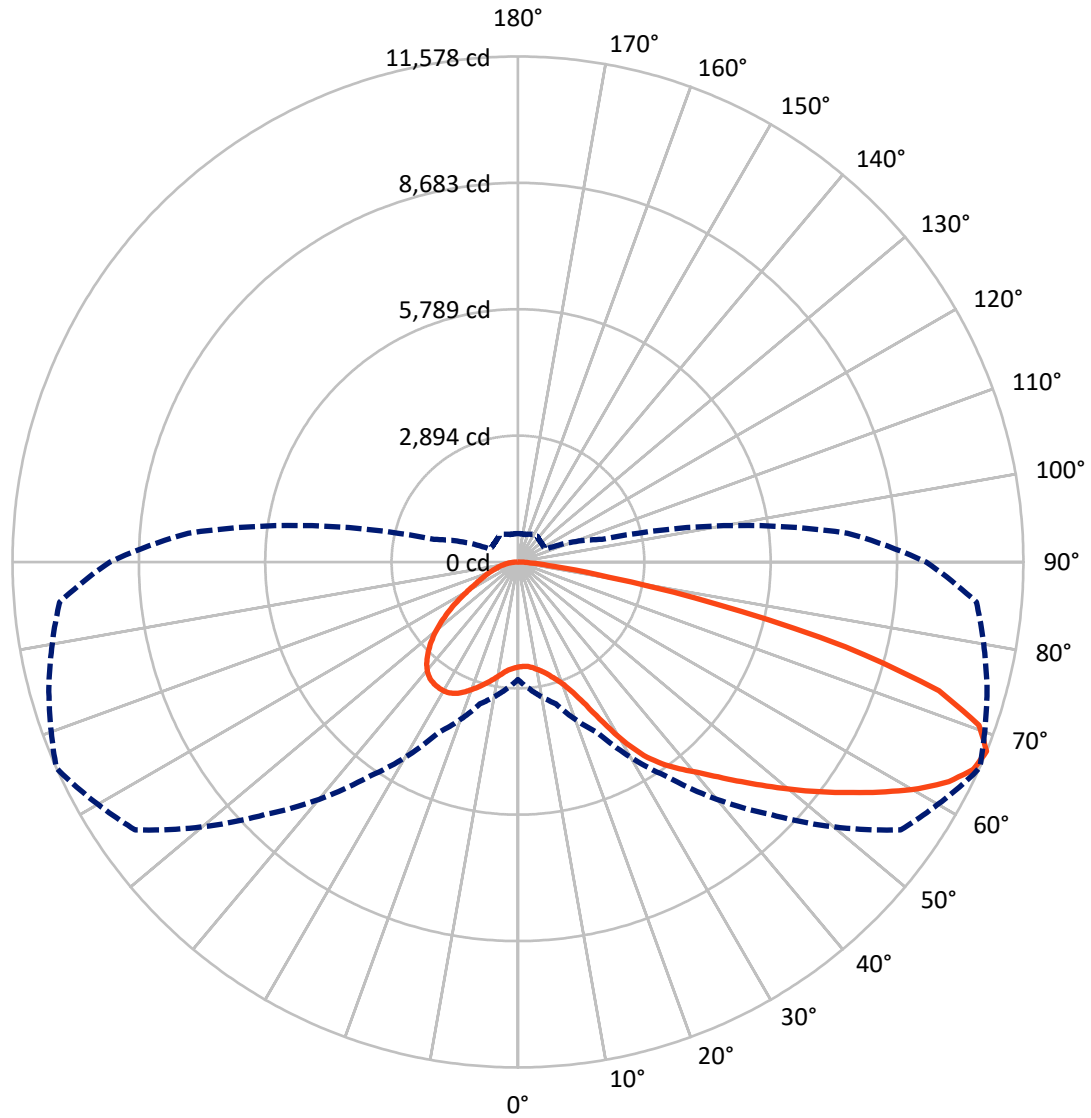
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5392.9	0.0	5392.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16296.1	0.0	16296.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	21689.0	0.0	21689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	1.1
10°-20°	788.0	3.6
20°-30°	1518.8	7.0
30°-40°	2663.0	12.3
40°-50°	3959.1	18.3
50°-60°	5018.5	23.1
60°-70°	4910.5	22.6
70°-80°	2342.3	10.8
80°-90°	250.3	1.2
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°	21689.0	100.0
0°-180°	21689.0	100.0

Coefficient of Utilization



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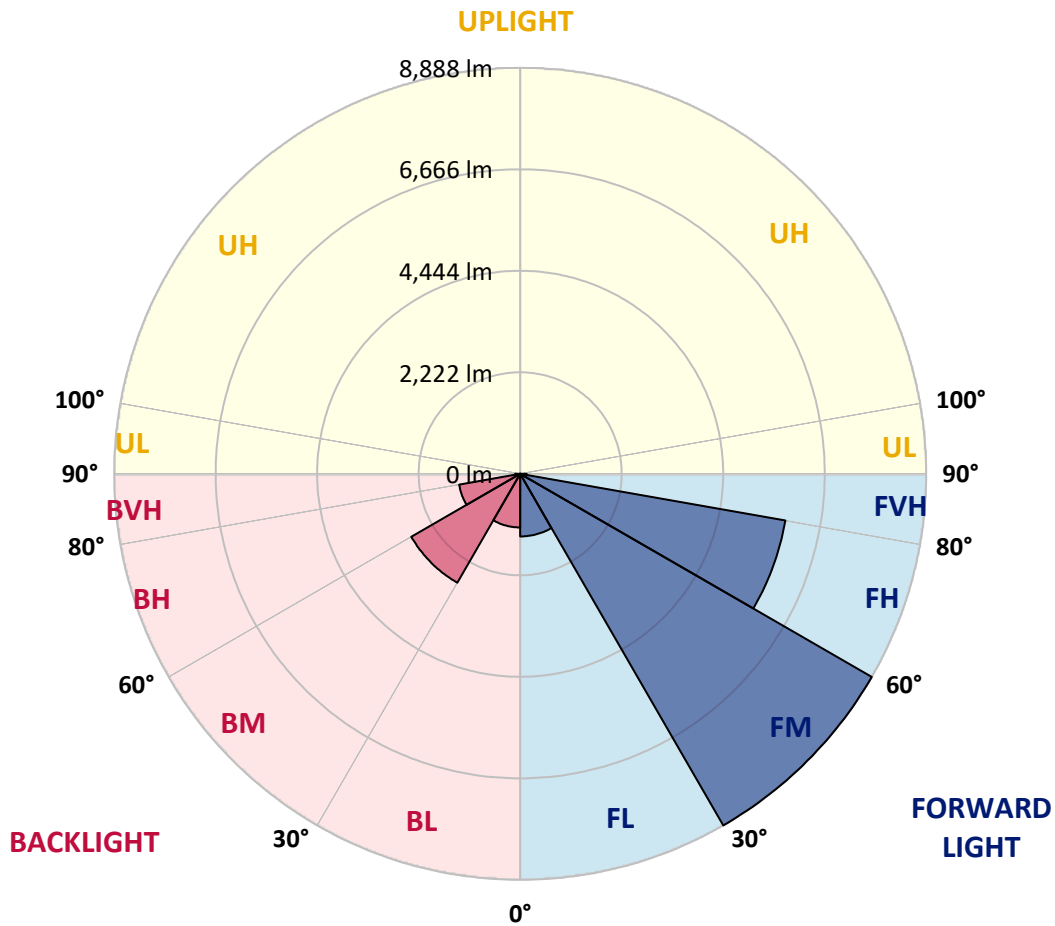
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.5	6.3			
FM (30°-60°)	8888.0	41.0			
FH (60°-80°)	5895.7	27.2			G3/7500
FVH (80°-90°)	141.9	0.7			G2/225
BL (0°-30°)	1174.8	5.4	B3/2500		
BM (30°-60°)	2752.6	12.7	B3/5000		
BH (60°-80°)	1357.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	108.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6
2.5°	2380.5	2394.2	2390.8	2385.1	2383.9	2386.2	2389.6	2393.1	2391.9	2397.6
5°	2373.7	2387.4	2386.2	2386.2	2390.8	2399.9	2405.6	2411.3	2405.6	2412.4
7.5°	2378.2	2388.5	2393.1	2397.6	2409.0	2426.1	2439.8	2452.3	2445.5	2453.5
10°	2436.4	2444.3	2448.9	2448.9	2456.9	2476.2	2489.9	2512.7	2507.0	2519.6
12.5°	2542.3	2550.3	2550.3	2545.8	2551.5	2564.0	2568.6	2593.6	2583.4	2603.9
15°	2672.3	2688.2	2675.7	2667.7	2670.0	2682.5	2681.4	2700.7	2690.5	2707.6
17.5°	2815.8	2836.3	2815.8	2814.7	2810.1	2823.8	2825.0	2842.0	2823.8	2836.3
20°	2985.6	3014.1	2997.0	3002.7	2992.5	2998.2	3003.9	3028.9	3000.4	3009.6
22.5°	3224.9	3259.1	3240.9	3262.5	3255.7	3251.1	3250.0	3294.4	3250.0	3253.4
25°	3573.6	3614.7	3582.8	3612.4	3612.4	3627.2	3644.3	3701.3	3627.2	3605.5
27.5°	4088.7	4129.7	4067.1	4085.3	4079.6	4116.1	4097.8	4239.1	4159.4	4124.0
30°	4708.6	4781.6	4663.1	4658.5	4652.8	4710.9	4737.1	4830.6	4749.7	4714.3
32.5°	5378.7	5455.0	5313.7	5272.7	5251.1	5286.4	5264.7	5339.9	5284.1	5229.4
35°	6087.5	6162.7	6028.2	5948.5	5861.9	5787.8	5710.3	5729.7	5677.3	5594.1
37.5°	6757.6	6895.4	6753.0	6667.5	6508.0	6363.3	6146.7	6056.7	6007.7	5931.4
40°	7440.1	7518.8	7410.5	7337.6	7164.4	6937.6	6591.2	6400.9	6334.8	6260.7
42.5°	7942.7	8017.9	7959.8	7909.6	7774.0	7510.8	7063.0	6824.8	6729.1	6645.9
45°	8341.5	8397.4	8360.9	8379.1	8321.0	8065.8	7551.8	7279.5	7180.3	7078.9
47.5°	8502.2	8561.5	8619.6	8727.8	8827.0	8639.0	8077.2	7771.8	7666.9	7563.2
50°	8484.0	8544.4	8713.0	8943.2	9250.9	9188.2	8631.0	8295.9	8199.1	8080.6
52.5°	8338.1	8406.5	8623.0	9005.9	9495.9	9599.6	9195.1	8837.2	8746.1	8604.8
55°	7955.2	7996.2	8321.0	8863.4	9554.0	9886.8	9747.7	9413.8	9322.7	9125.5
57.5°	7245.3	7304.5	7777.5	8479.4	9408.2	10081.6	10233.2	10020.1	9932.3	9648.6
60°	6318.8	6413.4	6954.7	7834.4	9036.7	10080.5	10674.2	10616.1	10543.1	10163.7
62.5°	5270.4	5379.8	5900.6	6922.8	8387.1	9794.5	10950.0	11115.2	11077.6	10638.9
65°	4047.7	4122.9	4641.4	5743.3	7376.3	9180.2	10981.9	11455.9	11462.8	11000.1
67.5°	2695.0	2911.6	3361.7	4309.8	6022.5	8176.3	10701.5	11511.8	11577.9	11124.3
70°	1315.0	1599.9	2040.9	2801.0	4309.8	6636.8	9968.8	11053.7	11200.7	10761.9
72.5°	545.8	638.1	878.6	1382.3	2474.0	4478.4	8496.5	9811.6	10083.9	9535.8
75°	368.1	398.8	502.5	708.8	1127.0	2208.5	6127.4	7315.9	7754.7	7202.0
77.5°	283.7	303.1	365.8	495.7	670.1	835.3	3279.6	4408.9	4635.7	4291.6
80°	223.4	238.2	273.5	361.2	475.2	446.7	1117.9	1997.6	2128.7	1785.7
82.5°	193.7	199.4	196.0	245.0	315.7	261.0	366.9	737.3	813.6	590.3
85°	140.2	156.1	163.0	151.6	167.5	132.2	150.4	261.0	287.2	256.4
87.5°	57.0	84.3	103.7	98.0	61.5	37.6	46.7	76.4	87.7	95.7
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°
2405.6	0°	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6
2406.7	2.5°	2407.9	2415.9	2421.6	2428.4	2432.9	2439.8	2453.5	2461.4	2462.6	2468.3
2425.0	5°	2429.5	2440.9	2453.5	2471.7	2492.2	2509.3	2535.5	2553.7	2560.6	2566.3
2469.4	7.5°	2476.2	2492.2	2515.0	2546.9	2576.5	2599.3	2631.2	2652.9	2674.5	2682.5
2540.1	10°	2545.8	2568.6	2601.6	2644.9	2676.8	2706.4	2739.5	2757.7	2779.4	2788.5
2624.4	12.5°	2632.4	2656.3	2699.6	2760.0	2789.6	2810.1	2821.5	2817.0	2821.5	2829.5
2725.8	15°	2731.5	2757.7	2806.7	2871.7	2892.2	2874.0	2848.9	2826.1	2822.7	2825.0
2848.9	17.5°	2848.9	2868.3	2925.2	2979.9	2965.1	2889.9	2835.2	2798.7	2780.5	2774.8
3006.1	20°	3013.0	3013.0	3059.7	3093.9	2994.7	2867.1	2781.6	2722.4	2684.8	2668.8
3220.4	22.5°	3212.4	3194.2	3223.8	3199.9	2989.0	2803.3	2684.8	2582.2	2525.2	2502.5
3520.1	25°	3465.4	3443.7	3435.8	3287.6	2948.0	2701.9	2509.3	2385.1	2334.9	2322.4
3952.0	27.5°	3847.1	3792.4	3688.7	3335.5	2872.8	2542.3	2304.2	2189.1	2160.6	2161.7
4506.9	30°	4355.4	4246.0	3991.9	3343.4	2749.7	2316.7	2094.5	2012.5	1998.8	2004.5
4973.0	32.5°	4826.0	4722.3	4301.8	3307.0	2560.6	2095.6	1906.5	1851.8	1831.3	1838.1
5328.6	35°	5195.2	5166.7	4589.0	3255.7	2328.1	1888.2	1737.8	1691.1	1651.2	1642.1
5663.6	37.5°	5543.9	5532.5	4804.4	3183.9	2097.9	1741.2	1602.2	1540.7	1482.6	1450.7
6033.9	40°	5926.8	5915.4	4945.7	3073.4	1893.9	1613.6	1480.3	1399.4	1327.6	1269.5
6453.3	42.5°	6357.6	6290.3	5012.9	2915.0	1720.7	1505.3	1381.1	1271.7	1177.2	1123.6
6927.3	45°	6828.2	6676.6	5011.8	2713.3	1574.9	1406.2	1275.2	1120.2	1032.4	982.3
7413.9	47.5°	7327.3	7045.9	4950.2	2489.9	1433.6	1296.8	1111.1	992.6	934.4	903.7
7942.7	50°	7842.4	7391.1	4845.4	2233.5	1288.8	1172.6	1008.5	927.6	883.2	854.7
8466.9	52.5°	8326.7	7704.5	4718.9	1942.9	1141.8	1051.8	962.9	900.2	853.5	821.6
8975.1	55°	8776.8	7974.6	4540.0	1645.5	1022.2	970.9	941.3	888.9	835.3	797.7
9491.3	57.5°	9176.8	8150.1	4231.2	1366.3	936.7	915.1	918.5	869.5	807.9	776.0
9999.6	60°	9509.6	8278.9	3774.2	1107.6	867.2	860.4	883.2	833.0	761.2	724.8
10429.2	62.5°	9709.0	8276.6	3213.5	907.1	807.9	810.2	836.4	787.4	714.5	680.3
10653.7	65°	9691.9	8073.7	2598.2	776.0	751.0	753.2	787.4	737.3	675.8	655.2
10540.9	67.5°	9348.9	7579.2	1993.1	690.6	688.3	698.5	738.4	703.1	651.8	649.5
9868.5	70°	8420.2	6552.4	1435.8	622.2	623.3	638.1	690.6	681.5	639.3	643.8
8297.1	72.5°	6751.9	4995.8	964.1	550.4	551.5	575.5	645.0	664.4	626.8	687.2
5886.9	75°	4496.7	3115.5	619.9	474.1	475.2	506.0	605.1	631.3	592.6	684.9
3063.1	77.5°	2160.6	1400.5	449.0	398.8	398.8	427.3	523.1	565.2	504.8	532.2
984.6	80°	746.4	526.5	353.3	321.4	314.5	333.9	441.0	490.0	435.3	401.1
321.4	82.5°	294.0	273.5	283.7	249.6	226.8	239.3	343.0	404.5	320.2	289.4
181.2	85°	168.7	177.8	200.6	165.2	131.0	147.0	251.8	290.6	241.6	213.1
59.3	87.5°	45.6	62.7	92.3	85.5	59.3	62.7	119.7	160.7	139.0	107.1
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>
2405.6
2467.1
2565.1
2683.6
2793.0
2831.8
2832.9
2782.8
2665.4
2499.0
2324.7
2165.2
2023.8
1847.2
1648.9
1451.8
1275.2
1127.0
980.0
896.8
844.4
807.9
782.9
755.5
708.8
670.1
654.1
653.0
642.7
696.3
690.6
487.7
376.1
288.3
217.7
110.5
0.0

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