

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: P950789

Luminaire Tested: **GALN-SB5A-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21965 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

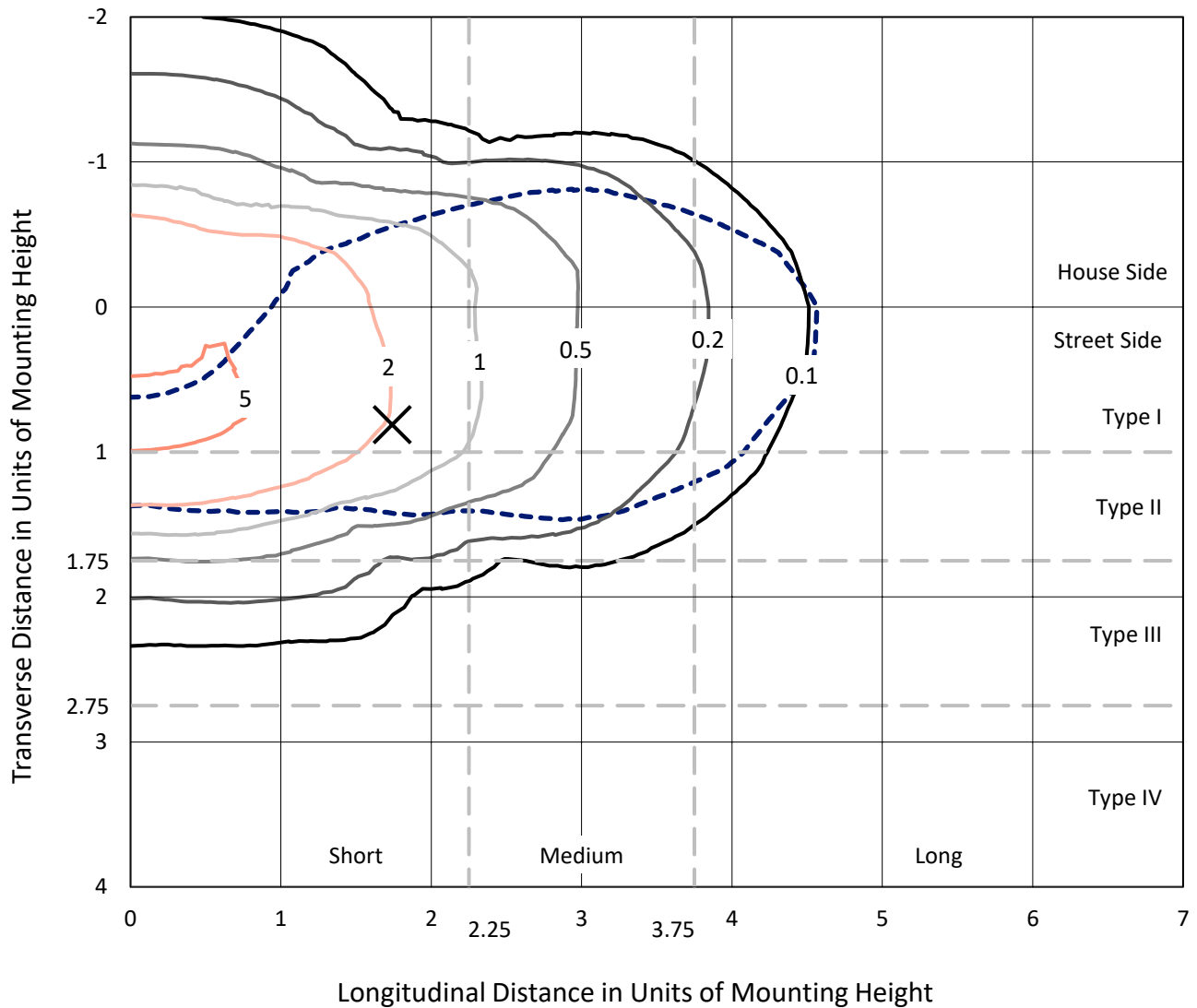
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

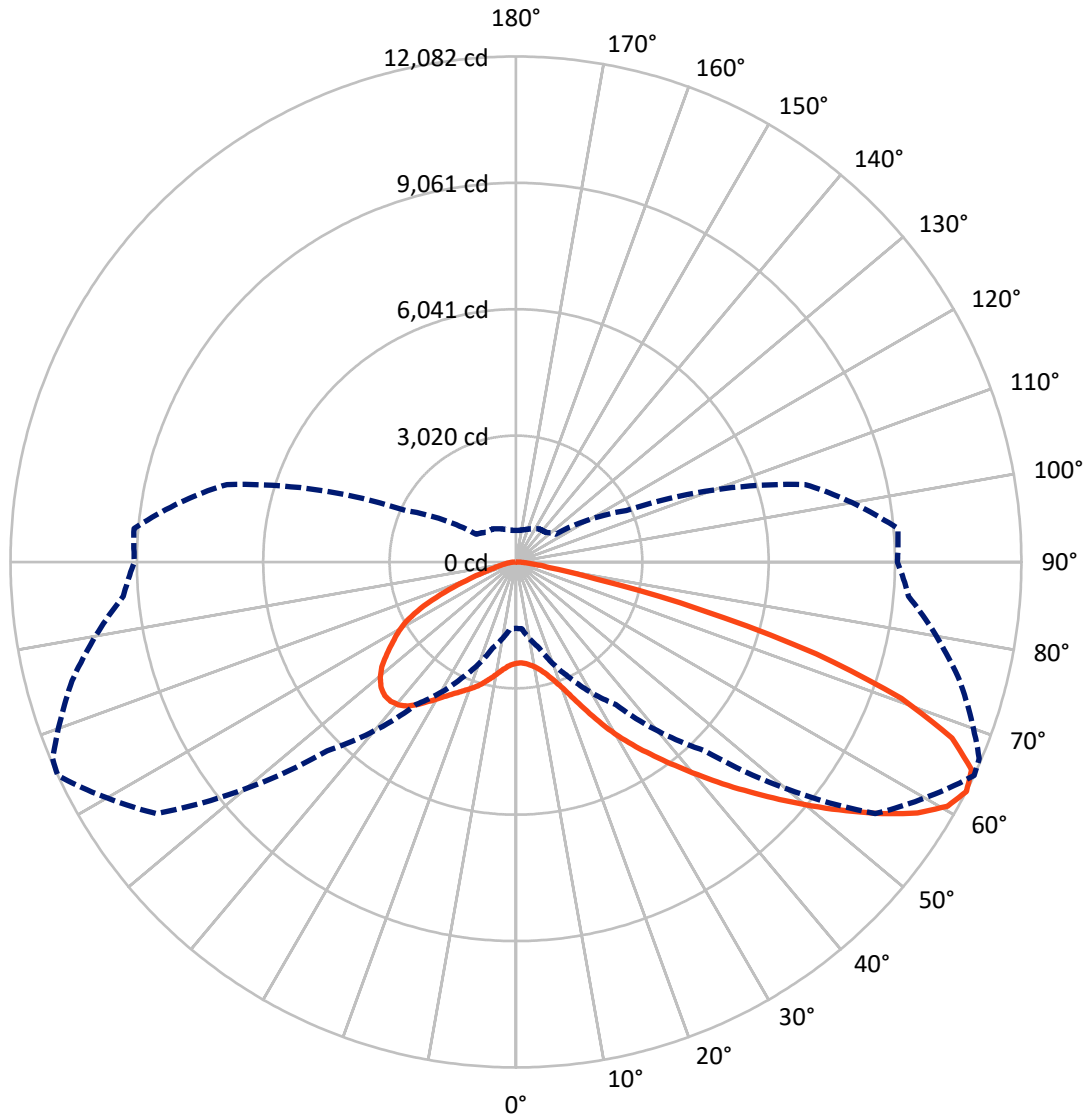
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6931.2	0.0	6931.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15033.8	0.0	15033.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	21965.0	0.0	21965.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.1
10°-20°	818.3	3.7
20°-30°	1659.2	7.6
30°-40°	2871.3	13.1
40°-50°	4345.1	19.8
50°-60°	5094.4	23.2
60°-70°	4271.0	19.4
70°-80°	2358.0	10.7
80°-90°	306.3	1.4
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°	21965.0	100.0
0°-180°	21965.0	100.0



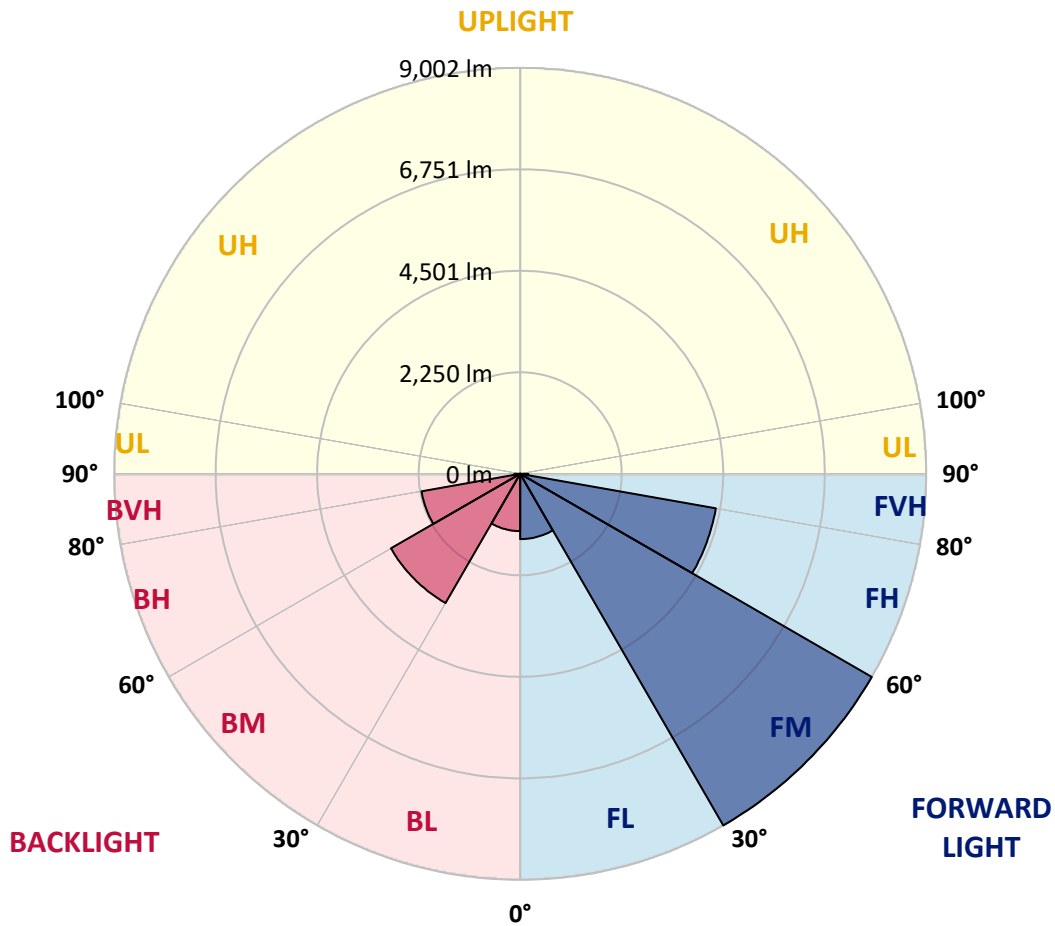
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.8	6.6			
FM (30°-60°)	9002.0	41.0			
FH (60°-80°)	4405.5	20.1			G2/5000
FVH (80°-90°)	178.5	0.8			G2/225
BL (0°-30°)	1271.1	5.8	B3/2500		
BM (30°-60°)	3308.9	15.1	B3/5000		
BH (60°-80°)	2223.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	127.8	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4
2.5°	2404.5	2397.7	2403.4	2403.4	2405.6	2404.5	2412.5	2414.7	2418.2	2425.0
5°	2380.6	2379.4	2389.7	2398.8	2407.9	2415.9	2426.1	2441.0	2443.2	2451.2
7.5°	2372.6	2365.7	2381.7	2393.1	2414.7	2434.1	2461.5	2486.5	2496.8	2500.2
10°	2434.1	2422.7	2437.5	2444.4	2462.6	2482.0	2513.9	2553.8	2565.2	2578.8
12.5°	2539.0	2526.4	2548.1	2558.3	2575.4	2592.5	2614.2	2652.9	2658.6	2683.7
15°	2682.5	2667.7	2681.4	2693.9	2722.4	2738.4	2760.0	2797.6	2797.6	2817.0
17.5°	2877.4	2858.0	2868.3	2872.9	2891.1	2915.0	2951.5	2984.5	3001.6	2994.8
20°	3168.0	3144.1	3144.1	3121.3	3114.4	3133.8	3181.7	3227.3	3245.5	3210.2
22.5°	3604.5	3570.3	3550.9	3473.4	3442.6	3444.9	3492.8	3548.6	3563.4	3500.8
25°	4159.4	4105.9	4079.7	3965.7	3896.2	3835.8	3873.4	3945.2	3965.7	3888.2
27.5°	4714.4	4717.8	4692.8	4556.0	4440.9	4330.4	4311.0	4386.2	4407.9	4320.1
30°	5492.7	5411.8	5364.0	5199.9	5035.8	4880.8	4801.0	4831.8	4837.5	4732.6
32.5°	6163.9	6143.4	6040.9	5897.3	5686.5	5443.7	5310.4	5261.4	5252.3	5103.0
35°	6928.6	6917.2	6808.9	6638.0	6410.1	6072.8	5832.3	5692.2	5680.8	5471.1
37.5°	7705.8	7705.8	7599.8	7412.9	7177.0	6755.4	6389.6	6167.4	6130.9	5857.4
40°	8325.7	8288.1	8307.5	8228.8	7958.8	7510.9	7008.4	6685.9	6636.9	6308.7
42.5°	8677.8	8665.3	8781.5	8869.3	8758.7	8400.9	7689.8	7247.7	7179.3	6805.5
45°	8756.5	8742.8	8950.2	9271.5	9426.5	9279.5	8430.5	7839.1	7755.9	7325.2
47.5°	8575.3	8547.9	8852.2	9359.3	9856.1	10114.8	9232.8	8480.7	8359.9	7831.1
50°	8030.6	8004.3	8464.7	9138.2	10000.9	10682.3	10103.4	9161.0	8976.4	8373.6
52.5°	6846.5	6859.1	7580.4	8505.8	9810.6	11035.6	10853.3	9877.8	9655.6	8928.5
55°	5333.2	5360.5	6247.1	7265.9	9049.3	10982.0	11364.9	10616.2	10395.2	9450.5
57.5°	3818.7	3939.5	4770.2	5778.8	7587.3	10133.1	11476.6	11318.2	11104.0	10020.2
60°	2475.1	2496.8	3351.5	4368.0	5777.6	8624.3	11249.8	11850.4	11682.9	10601.4
62.5°	1586.3	1601.1	2121.9	3055.2	4158.3	6380.5	10486.3	12081.7	12030.4	10985.5
65°	1165.8	1154.4	1425.6	2019.3	2801.1	3934.9	9003.7	11970.0	12071.5	11225.9
67.5°	973.2	957.2	1090.6	1398.3	2063.8	2234.7	6661.9	11244.1	11615.6	11198.6
70°	886.6	872.9	953.8	1038.1	1610.2	1496.3	3358.3	9775.2	10347.3	10887.5
72.5°	751.0	727.0	837.6	921.9	1252.4	1147.5	1388.0	7508.6	8206.0	9890.3
75°	582.3	566.4	661.0	811.4	941.3	895.7	877.5	4559.4	5320.7	7648.8
77.5°	461.5	439.9	526.5	632.5	846.7	675.8	639.3	1963.5	2717.9	4883.1
80°	347.6	328.2	400.0	500.3	650.7	509.4	413.7	801.1	1024.5	2474.0
82.5°	247.3	230.2	279.2	366.9	437.6	457.0	254.1	449.0	504.8	953.8
85°	158.4	148.1	186.9	230.2	278.1	294.0	155.0	234.8	257.5	393.2
87.5°	86.6	70.7	100.3	107.1	128.8	117.4	74.1	85.5	92.3	142.4
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°
2420.4	0°	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4	2420.4
2425.0	2.5°	2429.6	2433.0	2444.4	2447.8	2455.8	2466.0	2472.9	2479.7	2479.7	2486.5
2461.5	5°	2462.6	2470.6	2494.5	2507.1	2527.6	2548.1	2560.6	2575.4	2584.5	2589.1
2519.6	7.5°	2526.4	2539.0	2573.2	2594.8	2630.1	2658.6	2678.0	2698.5	2703.1	2715.6
2600.5	10°	2613.0	2627.8	2666.6	2707.6	2749.8	2785.1	2803.3	2818.2	2823.9	2826.1
2704.2	12.5°	2712.2	2733.8	2784.0	2834.1	2878.6	2909.3	2913.9	2910.5	2894.5	2880.8
2831.8	15°	2834.1	2853.5	2909.3	2964.0	3007.3	3013.0	2984.5	2966.3	2946.9	2943.5
2974.3	17.5°	2980.0	2990.2	3041.5	3095.1	3098.5	3079.1	3037.0	3019.9	3001.6	2989.1
3160.0	20°	3149.8	3146.4	3182.8	3205.6	3181.7	3122.4	3058.6	3030.1	3011.9	2997.1
3387.9	22.5°	3352.6	3326.4	3321.8	3316.2	3252.3	3128.1	3041.5	3005.0	2976.6	2956.0
3705.9	25°	3647.8	3547.5	3478.0	3439.2	3295.6	3097.4	2986.8	2905.9	2852.3	2817.0
4094.5	27.5°	4017.0	3848.3	3672.8	3578.3	3295.6	3034.7	2854.6	2723.6	2635.8	2599.4
4470.5	30°	4369.1	4192.5	3933.8	3745.8	3287.7	2932.1	2641.5	2459.2	2356.6	2320.2
4791.9	32.5°	4670.0	4477.4	4210.7	3929.2	3268.3	2765.7	2377.1	2175.4	2076.3	2033.0
5109.8	35°	4949.2	4744.0	4488.8	4130.9	3217.0	2521.9	2086.6	1932.7	1822.2	1752.7
5433.5	37.5°	5235.2	4991.3	4752.0	4313.3	3124.7	2237.0	1863.2	1732.1	1602.2	1508.8
5777.6	40°	5546.3	5254.6	5033.5	4421.5	2973.1	1965.8	1690.0	1570.3	1432.4	1333.3
6174.2	42.5°	5909.8	5570.2	5346.9	4477.4	2765.7	1773.2	1577.2	1459.8	1329.9	1249.0
6599.3	45°	6289.3	5917.8	5632.9	4476.2	2534.4	1683.1	1540.7	1424.5	1280.9	1196.5
7035.7	47.5°	6687.0	6281.3	5880.2	4403.3	2333.8	1695.7	1520.2	1348.1	1189.7	1107.7
7476.7	50°	7085.8	6679.0	6119.5	4266.6	2248.4	1668.3	1443.8	1241.0	1054.1	980.0
7890.4	52.5°	7481.3	7101.8	6325.8	4071.7	2161.8	1566.9	1345.8	1102.0	998.3	947.0
8317.7	55°	7879.0	7520.0	6550.3	3787.9	1945.2	1448.4	1181.7	1049.5	953.8	907.1
8735.9	57.5°	8277.8	8003.2	6763.4	3504.2	1672.9	1302.5	1091.7	985.7	909.4	869.5
9085.8	60°	8692.6	8555.9	6983.3	3243.2	1404.0	1115.6	1025.6	934.4	857.0	812.5
9422.0	62.5°	9120.0	9164.4	7155.4	2907.0	1156.7	1001.7	966.4	872.9	797.7	755.5
9700.0	65°	9550.7	9751.3	7268.2	2441.0	937.9	893.4	902.5	805.7	729.3	692.9
9904.0	67.5°	9875.5	10174.1	7236.3	1847.2	769.2	790.9	822.8	735.0	663.2	634.7
9871.0	70°	9912.0	10123.9	6921.8	1264.9	643.9	690.6	733.9	665.5	591.4	570.9
9406.0	72.5°	9426.5	9440.2	6045.4	826.2	544.7	606.3	640.4	594.9	523.1	502.6
8228.8	75°	8153.6	7807.2	4438.6	544.7	455.8	520.8	552.7	520.8	451.3	455.8
6157.1	77.5°	6177.6	5529.2	2695.1	387.5	380.6	437.6	480.9	458.1	398.8	447.9
3096.2	80°	3182.8	2991.4	1202.2	289.5	300.8	349.8	395.4	365.8	315.7	300.8
691.7	82.5°	729.3	847.8	474.1	207.4	217.7	251.8	302.0	274.6	226.8	191.4
288.3	85°	255.3	279.2	209.7	129.9	127.6	157.3	205.1	183.5	153.8	123.1
121.9	87.5°	80.9	106.0	78.6	52.4	54.7	70.7	94.6	86.6	71.8	46.7
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>
2420.4
2486.5
2591.4
2711.0
2820.4
2880.8
2943.5
2990.2
2998.2
2962.9
2830.7
2617.6
2341.8
2054.6
1775.5
1533.9
1352.7
1264.9
1210.2
1119.1
984.6
947.0
902.5
862.7
809.1
754.4
691.7
635.9
572.1
501.4
439.9
394.3
274.6
189.2
129.9
49.0
0.0

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