

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: P941039

Luminaire Tested: **GALN-SB4B-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21336 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

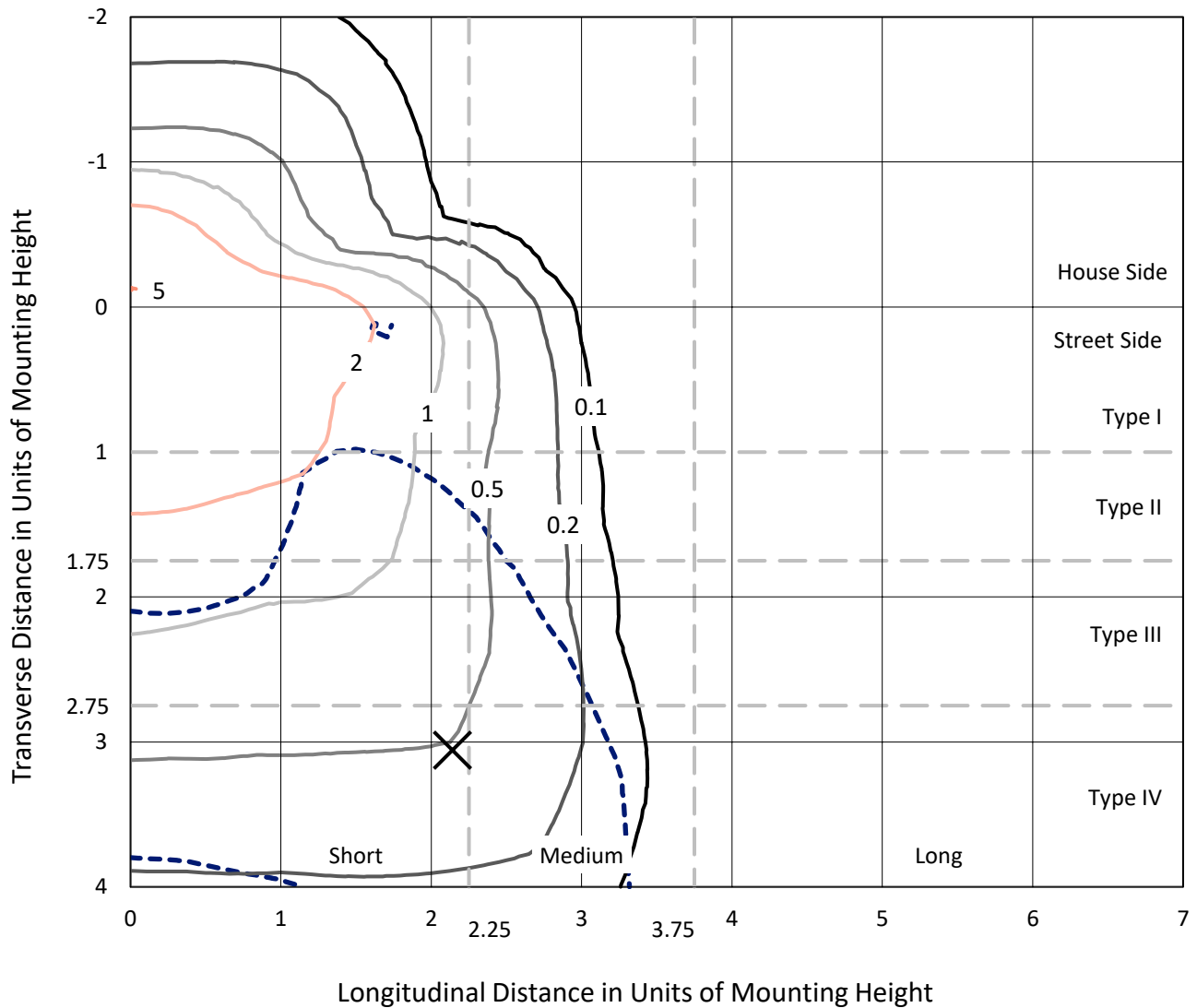
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

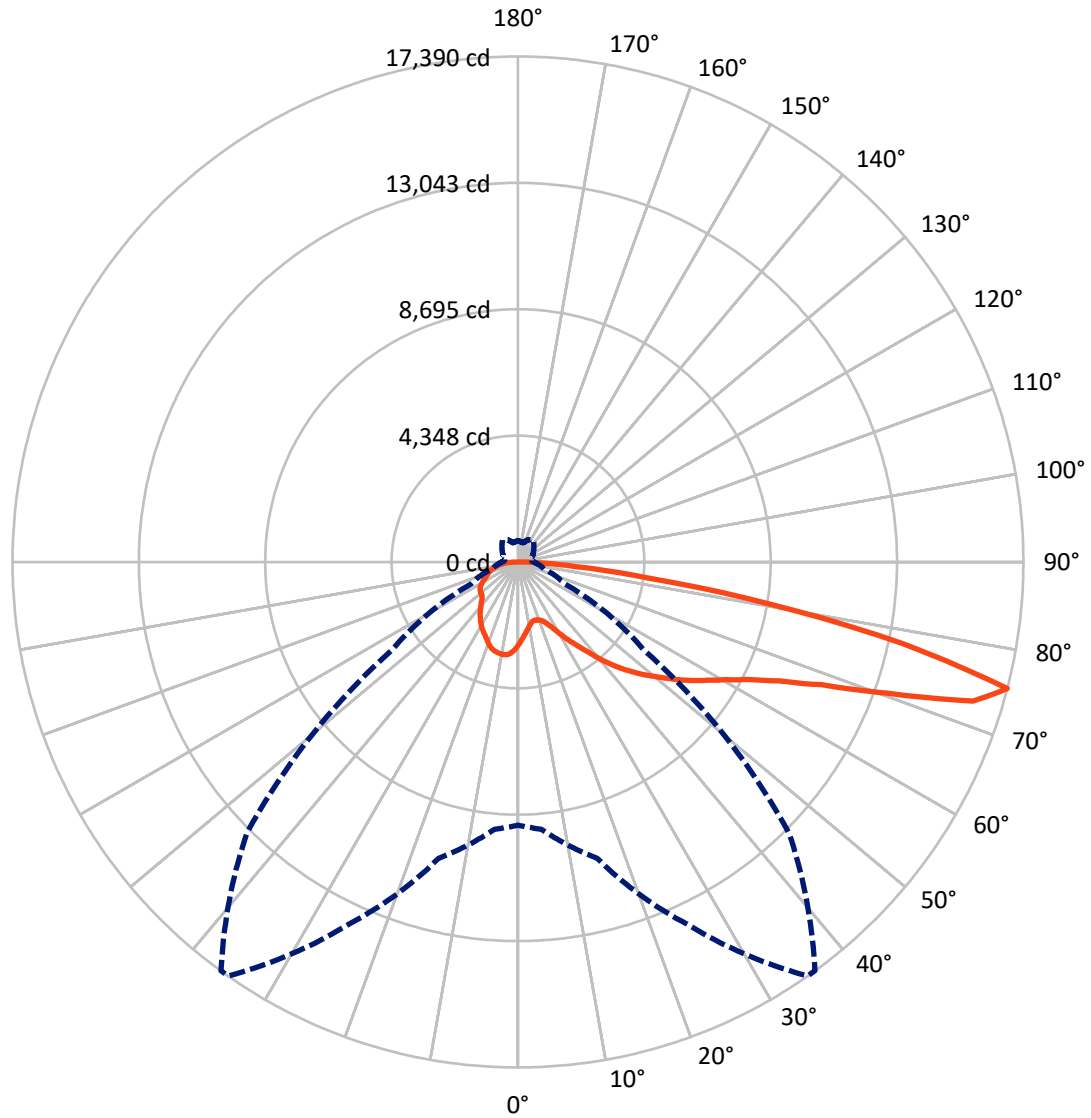
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5077.4	0.0	5077.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16258.6	0.0	16258.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	21336.0	0.0	21336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	1.3
10°-20°	776.5	3.6
20°-30°	1303.9	6.1
30°-40°	2026.4	9.5
40°-50°	3007.7	14.1
50°-60°	4152.4	19.5
60°-70°	5037.8	23.6
70°-80°	4163.3	19.5
80°-90°	598.8	2.8
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°	21336.0	100.0
0°-180°	21336.0	100.0

Coefficient of Utilization



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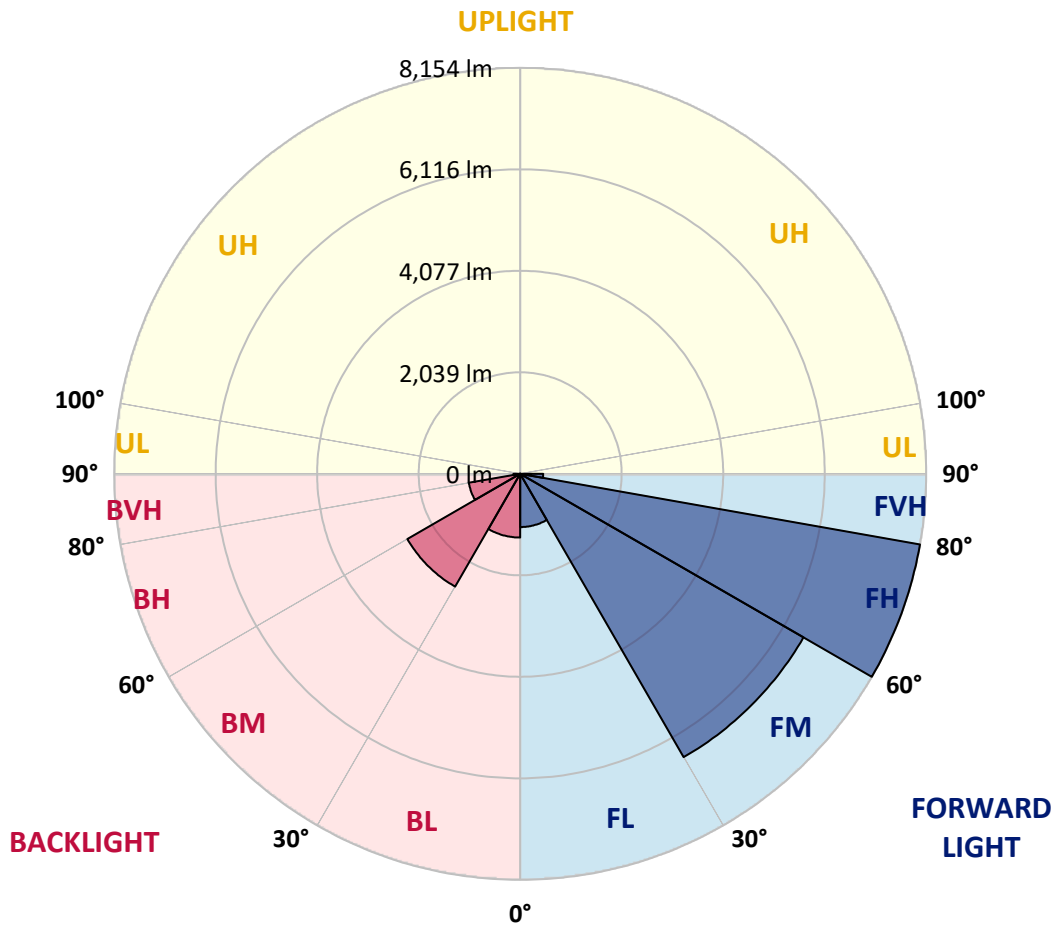
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.0	5.0			
FM (30°-60°)	6570.3	30.8			
FH (60°-80°)	8154.3	38.2			G4/12000
FVH (80°-90°)	464.0	2.2			G3/500
BL (0°-30°)	1279.6	6.0	B3/2500		
BM (30°-60°)	2616.2	12.3	B3/5000		
BH (60°-80°)	1046.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	134.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2
2.5°	2621.7	2637.9	2644.8	2641.3	2658.6	2656.3	2680.5	2710.5	2752.0	2792.4
5°	2419.9	2437.2	2452.2	2466.0	2499.4	2509.8	2547.9	2605.6	2681.7	2759.0
7.5°	2231.9	2246.9	2269.9	2295.3	2351.8	2362.2	2425.6	2515.6	2621.7	2734.7
10°	2078.5	2093.4	2117.7	2146.5	2216.9	2229.5	2310.3	2430.2	2568.7	2711.7
12.5°	2012.7	2017.3	2031.2	2060.0	2121.1	2129.2	2218.0	2355.3	2516.8	2694.4
15°	2009.2	2018.5	2019.6	2034.6	2085.4	2088.8	2170.7	2306.8	2484.5	2690.9
17.5°	2043.9	2050.8	2040.4	2049.6	2092.3	2098.1	2162.7	2283.8	2474.1	2705.9
20°	2136.1	2141.9	2110.7	2098.1	2129.2	2133.8	2197.3	2298.8	2484.5	2737.1
22.5°	2332.2	2335.7	2259.5	2207.6	2209.9	2212.2	2267.6	2359.9	2524.8	2793.6
25°	2637.9	2635.6	2514.4	2414.1	2356.4	2343.7	2380.6	2459.1	2592.9	2868.5
27.5°	2995.4	2978.1	2857.0	2707.1	2581.3	2562.9	2554.8	2588.3	2689.8	2967.7
30°	3399.1	3383.0	3252.6	3056.5	2882.4	2852.4	2776.3	2759.0	2833.9	3102.7
32.5°	3842.0	3831.6	3675.9	3438.3	3205.3	3170.7	3042.7	2996.6	3055.4	3306.8
35°	4213.4	4204.2	4075.0	3830.5	3545.6	3502.9	3372.6	3320.7	3350.7	3568.7
37.5°	4549.1	4544.5	4433.7	4241.1	3947.0	3895.1	3748.6	3731.3	3725.5	3913.5
40°	4860.5	4849.0	4733.6	4632.1	4414.1	4366.8	4237.6	4222.6	4178.8	4338.0
42.5°	5205.4	5175.4	5008.1	4960.8	4902.0	4862.8	4785.5	4787.8	4690.9	4816.7
45°	5486.8	5469.5	5297.6	5270.0	5333.4	5317.2	5384.1	5401.4	5213.4	5318.4
47.5°	5789.0	5772.8	5627.5	5607.9	5779.8	5784.4	6020.8	6026.6	5723.2	5839.7
50°	6161.5	6138.5	5994.3	6018.5	6211.1	6228.4	6661.0	6621.8	6192.7	6369.2
52.5°	6407.2	6421.1	6389.9	6429.1	6692.1	6708.3	7290.7	7190.4	6657.5	6891.7
55°	6588.3	6616.0	6712.9	6802.8	7199.6	7215.8	7884.7	7731.3	7042.7	7376.1
57.5°	6821.3	6782.1	6963.2	7138.5	7681.7	7724.4	8462.6	8252.7	7384.2	7793.6
60°	7155.8	7128.1	7268.8	7528.3	8221.5	8289.6	9073.9	8722.1	7634.4	8124.7
62.5°	7834.0	7764.8	7786.7	8016.2	8902.1	8992.0	9763.7	9131.6	7759.0	8253.8
65°	8847.8	8729.0	8618.3	8777.5	9860.5	9949.4	10542.2	9453.4	7712.9	8003.5
67.5°	10124.7	10007.0	9870.9	10020.9	11272.3	11342.7	11503.0	9634.5	7349.6	7039.3
70°	11177.7	11133.9	11296.5	11913.6	13527.2	13529.6	12734.8	9484.5	6354.2	4990.8
72.5°	11038.2	11011.6	11868.6	13776.4	16369.3	16308.1	13900.9	8349.6	4280.3	2251.5
75°	9055.5	9227.3	10554.9	13742.9	17390.0	17382.0	13187.0	5308.0	1770.5	933.1
77.5°	4855.9	5128.1	6852.4	10146.6	13575.7	13779.8	9271.1	1857.0	760.1	597.5
80°	1583.6	1821.2	2731.3	5166.1	8821.3	8783.3	3973.5	729.0	520.2	423.3
82.5°	672.4	700.1	1220.3	2439.5	4527.2	4456.8	1265.3	418.7	365.6	289.5
85°	263.0	294.1	538.6	1128.0	1960.8	1918.1	456.8	207.6	234.1	189.2
87.5°	86.5	105.0	192.6	386.4	610.2	588.2	111.9	71.5	101.5	86.5
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°
2843.2	0°	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2	2843.2
2851.2	2.5°	2867.4	2885.8	2907.8	2940.1	2967.7	2990.8	3015.0	3030.0	3035.8	3053.1
2855.9	5°	2888.1	2928.5	2982.7	3035.8	3087.7	3118.8	3146.5	3160.4	3173.0	3182.3
2868.5	7.5°	2922.8	2974.7	3060.0	3129.2	3173.0	3198.4	3216.9	3212.3	3216.9	3219.2
2882.4	10°	2952.7	3025.4	3126.9	3192.7	3226.1	3227.3	3222.6	3206.5	3198.4	3199.6
2903.1	12.5°	2988.5	3069.2	3178.8	3234.2	3243.4	3218.0	3198.4	3170.7	3160.4	3155.7
2934.3	15°	3036.9	3129.2	3235.3	3256.1	3233.0	3200.7	3167.3	3122.3	3099.2	3080.8
2987.3	17.5°	3095.8	3197.3	3279.2	3264.2	3214.6	3161.5	3107.3	3039.2	2992.0	2972.3
3060.0	20°	3177.7	3268.8	3312.6	3246.9	3171.9	3091.2	2998.9	2915.8	2872.0	2852.4
3152.3	22.5°	3276.9	3364.5	3344.9	3216.9	3110.8	2981.6	2866.2	2805.1	2783.2	2769.3
3271.1	25°	3395.7	3470.6	3368.0	3173.0	3010.4	2836.2	2747.4	2727.8	2717.4	2707.1
3416.4	27.5°	3550.2	3590.6	3385.3	3108.5	2853.5	2681.7	2649.4	2652.9	2649.4	2632.1
3618.3	30°	3754.4	3746.3	3401.4	3003.5	2673.6	2542.1	2544.4	2559.4	2561.7	2550.2
3899.7	32.5°	4023.1	3941.2	3409.5	2867.4	2501.8	2419.9	2422.2	2438.3	2449.9	2430.2
4267.6	35°	4348.4	4168.4	3396.8	2696.7	2369.1	2303.4	2286.1	2290.7	2294.1	2275.7
4714.0	37.5°	4727.8	4423.3	3340.3	2507.5	2259.5	2189.2	2152.3	2121.1	2102.7	2085.4
5219.2	40°	5144.2	4701.3	3236.5	2323.0	2137.3	2068.1	2012.7	1953.9	1891.6	1868.5
5754.4	42.5°	5580.2	4987.4	3110.8	2146.5	1996.6	1940.0	1881.2	1795.9	1702.4	1655.1
6310.3	45°	6032.4	5280.3	2987.3	1972.3	1852.4	1828.2	1760.1	1657.5	1556.0	1496.0
6867.4	47.5°	6475.3	5557.2	2806.3	1797.0	1717.4	1744.0	1690.9	1596.3	1483.3	1388.7
7419.9	50°	6898.6	5816.7	2509.8	1619.4	1607.9	1718.6	1667.8	1531.7	1402.6	1281.4
7962.0	52.5°	7318.4	6026.6	2130.4	1457.9	1549.0	1711.7	1637.8	1487.9	1329.9	1203.0
8471.8	55°	7674.8	6135.0	1764.7	1319.5	1463.7	1652.8	1602.1	1436.0	1227.2	1092.3
8821.3	57.5°	7877.8	6047.4	1460.2	1183.4	1346.0	1556.0	1541.0	1325.3	1105.0	1001.2
8889.4	60°	7790.2	5692.1	1211.1	1064.6	1234.2	1451.0	1434.8	1215.7	1011.5	913.5
8524.9	62.5°	7306.9	5015.0	1013.9	960.8	1132.7	1343.7	1328.7	1131.5	940.0	845.5
7557.2	65°	6333.4	4079.6	860.4	874.3	1030.0	1214.5	1236.5	1061.1	883.5	791.2
5846.7	67.5°	4830.5	2955.0	740.5	799.3	929.7	1087.7	1151.1	1010.4	836.2	748.6
3383.0	70°	2753.2	1678.2	639.0	726.7	840.8	970.0	1085.4	970.0	785.5	712.8
1267.6	72.5°	1043.8	770.5	552.5	654.0	755.5	870.8	1012.7	906.6	726.7	672.4
655.1	75°	557.1	469.4	464.8	568.6	657.4	773.9	921.6	844.3	682.8	710.5
453.3	77.5°	379.5	332.2	388.7	486.7	550.2	666.7	824.7	749.7	591.7	589.4
313.7	80°	263.0	235.3	316.0	392.2	425.6	560.6	719.7	643.6	482.1	449.8
193.8	82.5°	158.0	153.4	236.4	293.0	301.0	432.5	596.3	539.8	394.5	343.7
115.3	85°	86.5	91.1	151.1	171.9	175.3	302.2	467.1	417.5	303.3	254.9
41.5	87.5°	24.2	31.1	55.4	68.1	84.2	156.9	278.0	248.0	152.3	106.1
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>
2843.2
3051.9
3184.6
3222.6
3201.9
3153.4
3086.5
2973.5
2850.1
2771.7
2707.1
2635.6
2556.0
2439.5
2288.4
2096.9
1878.9
1660.9
1491.4
1378.3
1271.1
1189.2
1080.7
987.3
899.7
830.5
776.2
734.7
703.6
663.2
733.6
543.3
430.2
346.0
257.2
106.1
0.0

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