

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: P950646

Luminaire Tested: **GALN-SB5A-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950646
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-SB5A-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23926 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

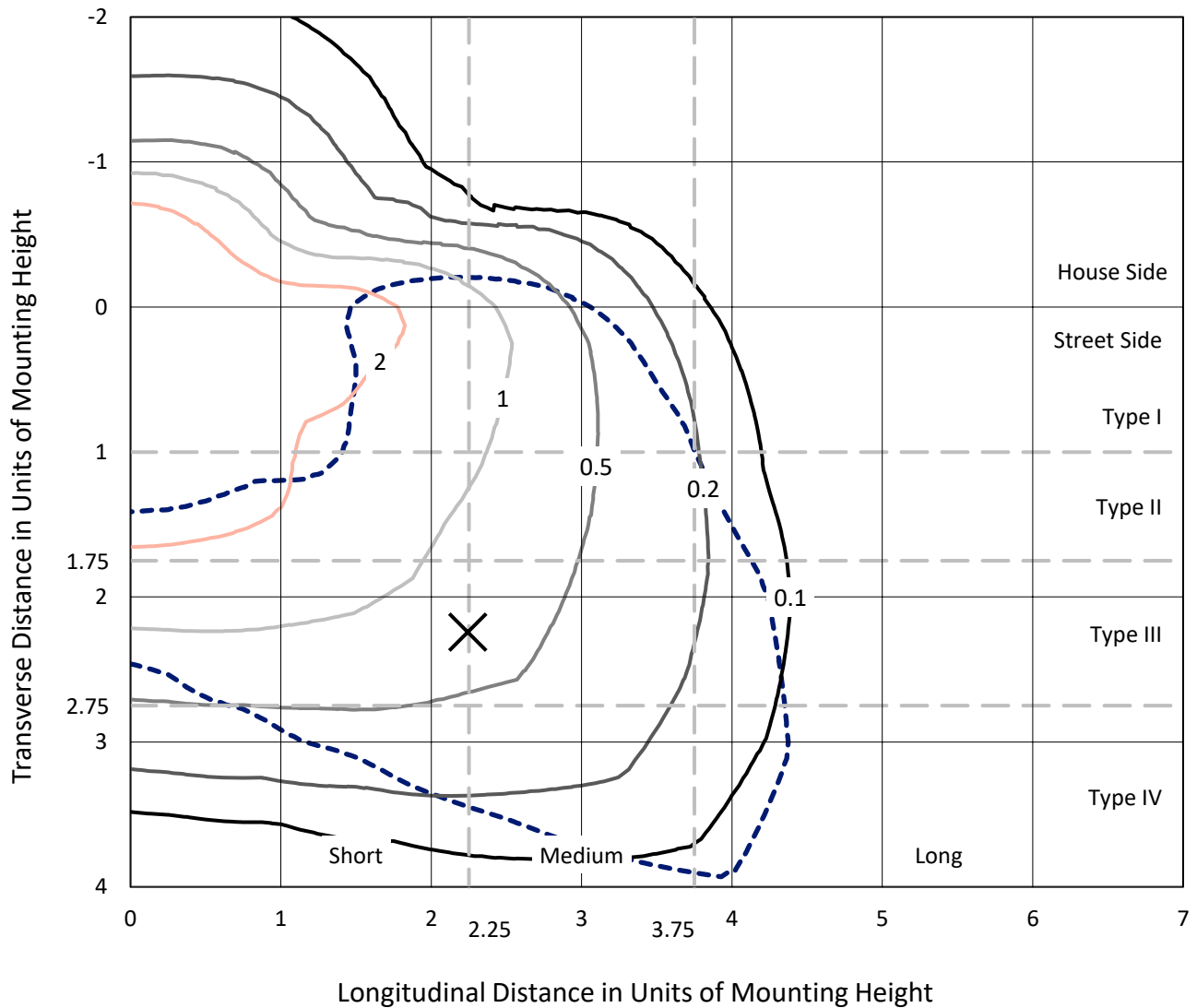
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

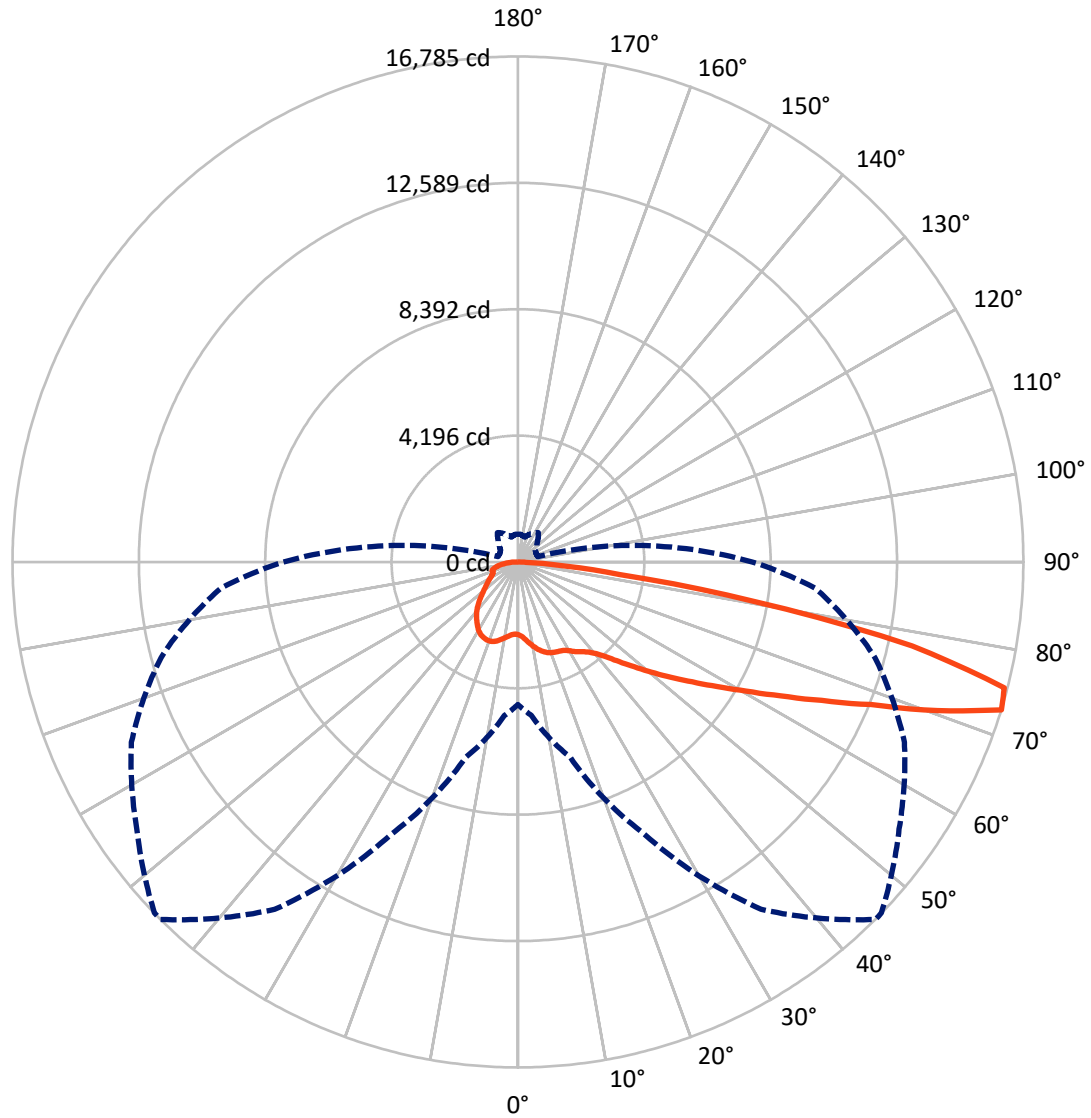
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	5408.8	0.0	5408.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18517.2	0.0	18517.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	23926.0	0.0	23926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.0
10°-20°	819.1	3.4
20°-30°	1424.8	6.0
30°-40°	2042.6	8.5
40°-50°	2876.1	12.0
50°-60°	4405.3	18.4
60°-70°	6381.7	26.7
70°-80°	5096.2	21.3
80°-90°	634.7	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°	23926.0	100.0
0°-180°	23926.0	100.0

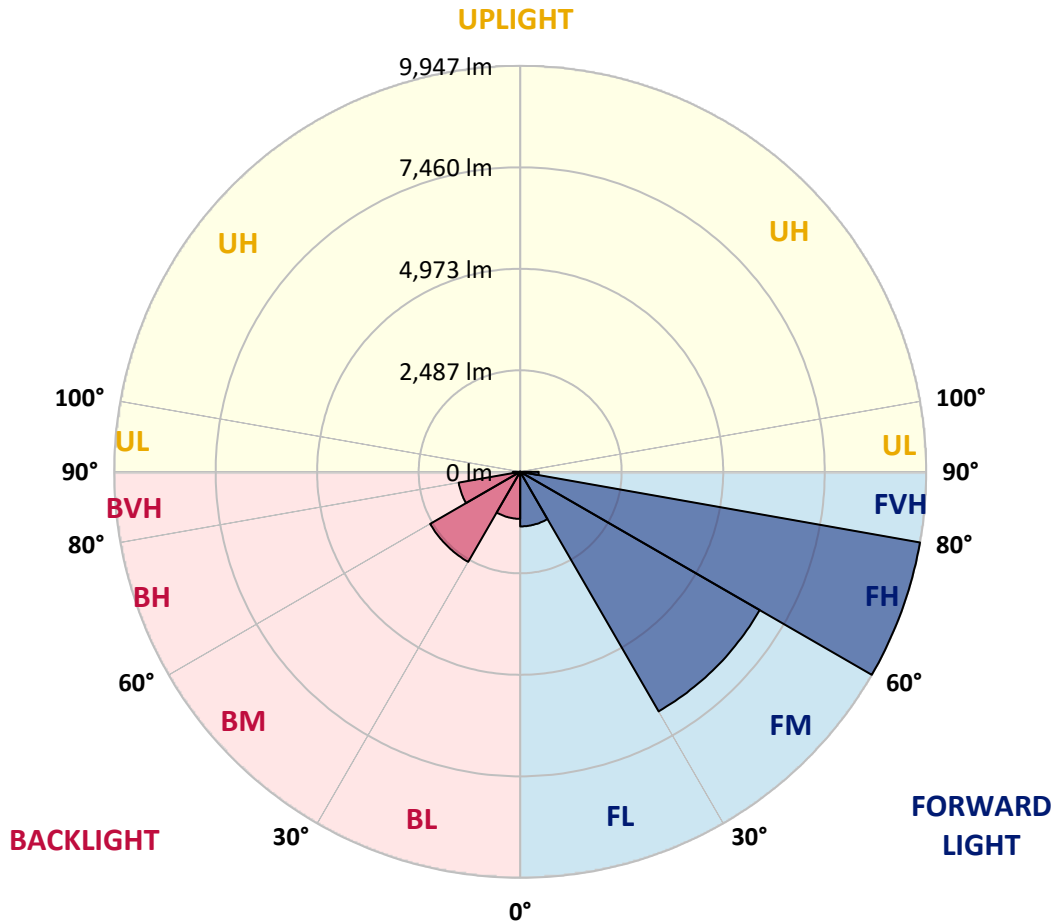


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.0	5.6			
FM (30°-60°)	6777.1	28.3			
FH (60°-80°)	9946.7	41.6			G4/12000
FVH (80°-90°)	455.3	1.9			G3/500
BL (0°-30°)	1151.6	4.8	B3/2500		
BM (30°-60°)	2546.8	10.6	B3/5000		
BH (60°-80°)	1531.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	179.4	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°	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7
2.5°	2508.2	2524.6	2509.5	2495.6	2489.3	2472.9	2471.6	2461.6	2455.3	2437.6
5°	2683.4	2704.8	2679.6	2651.9	2626.7	2586.3	2581.3	2552.3	2519.5	2481.7
7.5°	2881.3	2900.2	2871.2	2829.6	2785.5	2718.7	2717.4	2664.5	2612.8	2548.5
10°	3054.0	3079.2	3040.1	2983.4	2927.9	2852.3	2843.5	2783.0	2717.4	2634.2
12.5°	3206.5	3224.1	3186.3	3117.0	3052.7	2977.1	2965.7	2898.9	2825.8	2731.3
15°	3327.5	3350.1	3299.7	3225.4	3157.3	3082.9	3072.9	3012.4	2939.3	2839.7
17.5°	3406.9	3425.8	3374.1	3290.9	3225.4	3163.6	3156.0	3105.6	3041.3	2940.5
20°	3437.1	3457.3	3403.1	3318.6	3258.1	3210.2	3206.5	3169.9	3125.8	3033.8
22.5°	3467.4	3486.3	3415.7	3327.5	3274.5	3244.3	3243.0	3219.1	3201.4	3125.8
25°	3589.6	3594.7	3500.1	3372.8	3297.2	3270.7	3269.5	3268.2	3275.8	3216.5
27.5°	3695.5	3694.2	3613.6	3493.8	3376.6	3321.2	3319.9	3332.5	3356.4	3307.3
30°	3850.5	3836.7	3740.9	3616.1	3509.0	3423.2	3415.7	3404.3	3423.2	3384.2
32.5°	4179.5	4135.4	3980.3	3758.5	3618.6	3553.1	3543.0	3472.4	3480.0	3456.0
35°	4650.9	4592.9	4386.2	4028.2	3754.7	3661.5	3656.4	3566.9	3551.8	3530.4
37.5°	5211.8	5139.9	4899.2	4419.0	3989.2	3787.5	3779.9	3699.3	3637.5	3614.8
40°	5775.2	5684.4	5485.3	4895.4	4334.5	3998.0	3974.0	3851.8	3781.2	3743.4
42.5°	6322.2	6246.5	6076.4	5429.8	4760.5	4305.5	4252.6	4043.4	3990.4	3955.1
45°	6806.2	6738.1	6613.3	6000.8	5259.7	4724.0	4672.3	4330.7	4314.4	4314.4
47.5°	7199.4	7184.3	7051.9	6583.1	5848.3	5200.4	5110.9	4730.3	4774.4	4842.5
50°	7635.5	7593.9	7452.8	7156.6	6540.2	5746.2	5673.1	5220.6	5385.7	5572.2
52.5°	8036.3	8059.0	7901.5	7754.0	7321.7	6354.9	6226.4	5799.1	6155.8	6464.6
55°	8448.5	8449.7	8405.6	8385.4	8140.9	7028.0	6886.8	6494.8	7062.0	7445.2
57.5°	8835.4	8837.9	8903.5	9081.2	9091.3	7804.4	7644.3	7349.4	8069.1	8459.8
60°	9180.8	9198.4	9377.4	9793.3	9926.9	8694.2	8543.0	8359.0	9110.2	9503.4
62.5°	9296.7	9361.0	9759.3	10350.4	10752.5	9785.8	9637.0	9527.4	10204.2	10569.7
65°	9100.1	9247.6	10017.7	10810.5	11602.0	11082.7	10935.2	10815.5	11341.1	11685.2
67.5°	8617.4	8807.7	10002.5	11293.2	12633.0	12643.1	12505.7	12224.6	12559.9	12692.2
70°	7345.6	7630.5	9121.5	11473.4	13816.5	14776.9	14644.6	13921.1	13776.2	13135.9
72.5°	4732.8	5116.0	6716.7	9989.9	14079.9	16784.8	16777.2	15452.5	14160.6	12273.8
75°	1726.7	1961.2	3120.8	6270.5	11818.8	16682.7	16731.8	15190.4	12926.7	9480.7
77.5°	628.9	688.2	1018.4	2409.9	7268.7	13385.5	13487.5	12144.0	9200.9	4758.0
80°	330.2	363.0	521.8	935.2	3114.5	7949.3	8109.4	7217.1	4324.4	1433.1
82.5°	182.8	197.9	292.4	507.9	1402.8	3399.3	3495.1	2851.0	1521.3	607.5
85°	98.3	104.6	137.4	277.3	685.7	1178.5	1204.9	852.0	606.3	356.7
87.5°	29.0	35.3	45.4	88.2	268.5	264.7	271.0	168.9	239.5	180.2
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°
2413.7	0°	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7	2413.7
2432.6	2.5°	2425.0	2421.2	2407.4	2401.1	2393.5	2392.2	2398.5	2399.8	2401.1	2402.3
2460.3	5°	2447.7	2435.1	2422.5	2414.9	2417.4	2418.7	2431.3	2440.1	2446.4	2451.5
2512.0	7.5°	2491.8	2481.7	2460.3	2459.0	2462.8	2474.2	2490.6	2510.7	2522.1	2530.9
2578.8	10°	2557.4	2538.4	2513.2	2517.0	2524.6	2541.0	2575.0	2591.4	2610.3	2626.7
2660.7	12.5°	2624.2	2607.8	2578.8	2581.3	2593.9	2622.9	2655.7	2675.8	2688.4	2701.0
2748.9	15°	2711.1	2682.1	2650.6	2650.6	2673.3	2704.8	2719.9	2736.3	2743.9	2757.8
2843.5	17.5°	2800.6	2762.8	2721.2	2718.7	2746.4	2761.5	2770.4	2772.9	2775.4	2790.5
2935.5	20°	2890.1	2848.5	2789.3	2784.2	2790.5	2788.0	2786.7	2784.2	2788.0	2806.9
3030.0	22.5°	2978.3	2930.4	2848.5	2825.8	2808.2	2784.2	2783.0	2781.7	2784.2	2803.1
3132.1	25°	3081.7	3023.7	2914.0	2846.0	2786.7	2754.0	2757.8	2759.0	2761.5	2776.7
3238.0	27.5°	3193.9	3129.6	2974.5	2839.7	2732.5	2709.9	2703.6	2707.3	2716.2	2740.1
3343.8	30°	3306.0	3230.4	3030.0	2814.5	2664.5	2633.0	2612.8	2621.6	2649.4	2673.3
3435.9	32.5°	3408.1	3332.5	3074.1	2759.0	2577.5	2528.4	2501.9	2513.2	2541.0	2549.8
3537.9	35°	3527.9	3442.2	3093.0	2670.8	2483.0	2407.4	2372.1	2355.7	2369.6	2360.7
3657.7	37.5°	3661.5	3572.0	3090.5	2554.8	2372.1	2285.1	2236.0	2174.2	2145.2	2115.0
3834.1	40°	3859.3	3730.8	3060.3	2414.9	2234.7	2155.3	2067.1	1962.4	1896.9	1837.7
4119.0	42.5°	4129.1	3951.4	3004.8	2261.2	2079.7	2005.3	1885.6	1763.3	1659.9	1561.6
4551.3	45°	4531.1	4240.0	2935.5	2097.3	1912.0	1838.9	1709.1	1571.7	1454.5	1328.5
5165.1	47.5°	5110.9	4628.2	2869.9	1910.8	1735.6	1668.8	1551.6	1424.3	1285.6	1163.4
6052.4	50°	5907.5	5185.3	2809.4	1729.3	1561.6	1511.2	1418.0	1288.1	1148.2	1049.9
7092.3	52.5°	6920.9	5942.8	2784.2	1554.1	1399.0	1380.1	1305.8	1184.8	1052.4	969.2
8304.8	55°	8084.2	6849.0	2784.2	1386.4	1256.6	1262.9	1211.2	1099.1	984.4	910.0
9555.1	57.5°	9271.5	7766.6	2733.8	1231.4	1135.6	1162.1	1129.3	1031.0	927.7	850.8
10869.7	60°	10365.5	8535.4	2529.6	1090.2	1028.5	1070.1	1048.7	964.2	838.2	773.9
11968.8	62.5°	11206.2	8969.0	2136.4	978.1	940.3	988.2	976.8	876.0	821.8	795.3
12871.2	65°	11627.2	8898.4	1633.5	878.5	865.9	940.3	916.3	912.5	869.7	839.4
13164.9	67.5°	11368.8	8290.9	1184.8	805.4	823.0	896.1	988.2	1003.3	923.9	864.6
12338.1	70°	10235.7	7191.8	882.3	736.1	768.8	897.4	1126.8	1049.9	906.2	836.9
9895.4	72.5°	7786.8	5363.0	684.4	663.0	698.3	903.7	1188.6	1028.5	855.8	925.1
6164.6	75°	4453.0	2944.3	549.5	573.5	610.0	844.5	1157.0	973.0	816.7	849.5
2442.7	77.5°	1697.8	1131.8	453.7	485.3	490.3	737.3	1106.6	969.2	777.7	758.8
732.3	80°	588.6	442.4	375.6	385.7	379.4	655.4	1061.3	843.2	636.5	569.7
302.5	82.5°	240.7	220.6	297.5	284.9	269.7	509.2	857.1	689.4	520.5	460.0
146.2	85°	104.6	139.9	196.6	172.7	156.3	352.9	686.9	583.6	439.9	379.4
47.9	87.5°	21.4	52.9	83.2	78.1	80.7	235.7	487.8	414.7	311.3	233.2
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>
2413.7
2407.4
2454.0
2533.4
2622.9
2706.1
2762.8
2795.6
2814.5
2815.7
2796.8
2764.1
2699.8
2581.3
2388.5
2133.9
1841.4
1552.8
1313.3
1149.5
1043.6
962.9
902.4
838.2
763.8
786.5
829.3
854.6
825.6
917.6
849.5
692.0
550.8
455.0
378.1
182.8
0.0

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