

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: P947902

Luminaire Tested: **GALN-SB3A-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12796 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

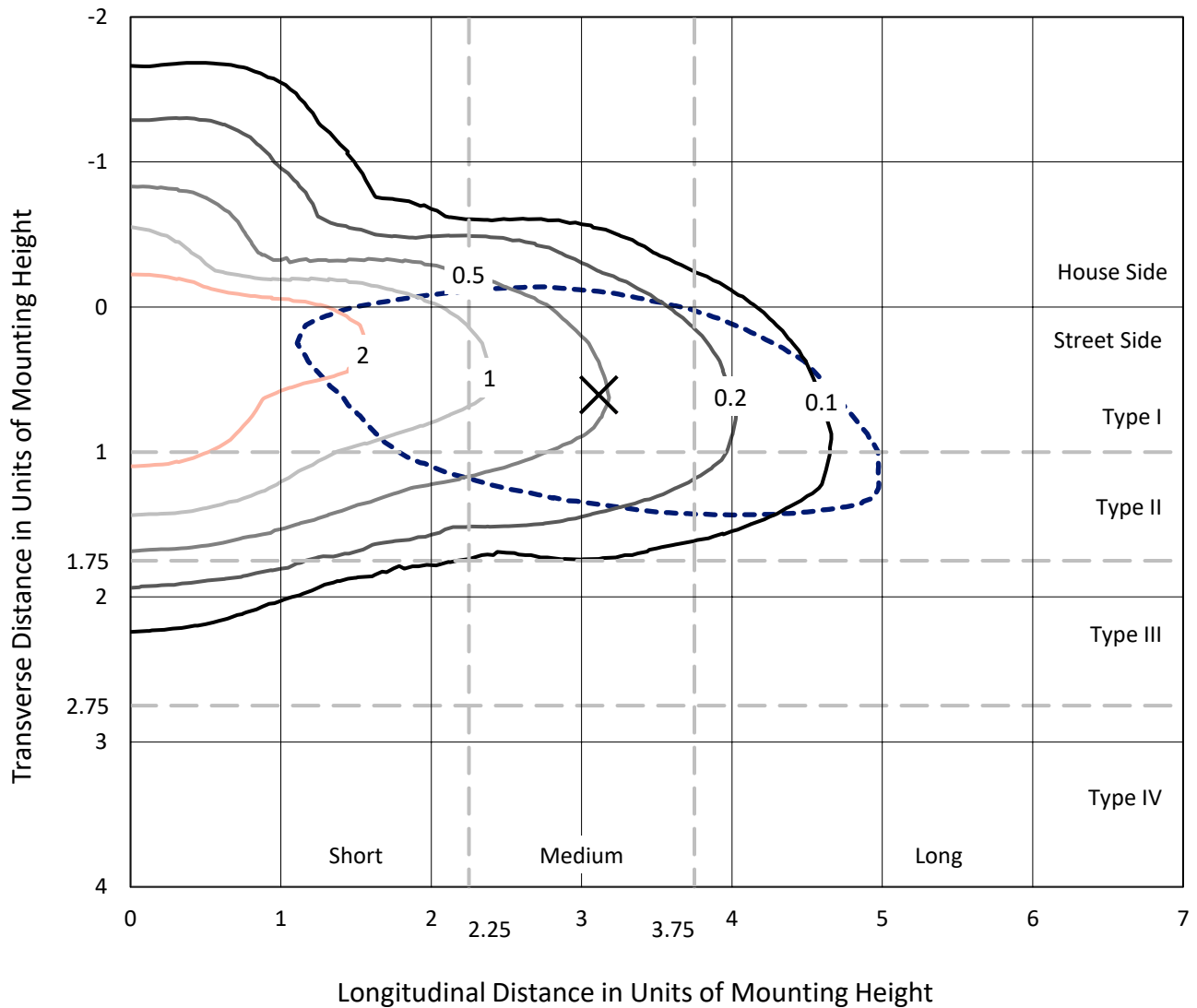
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

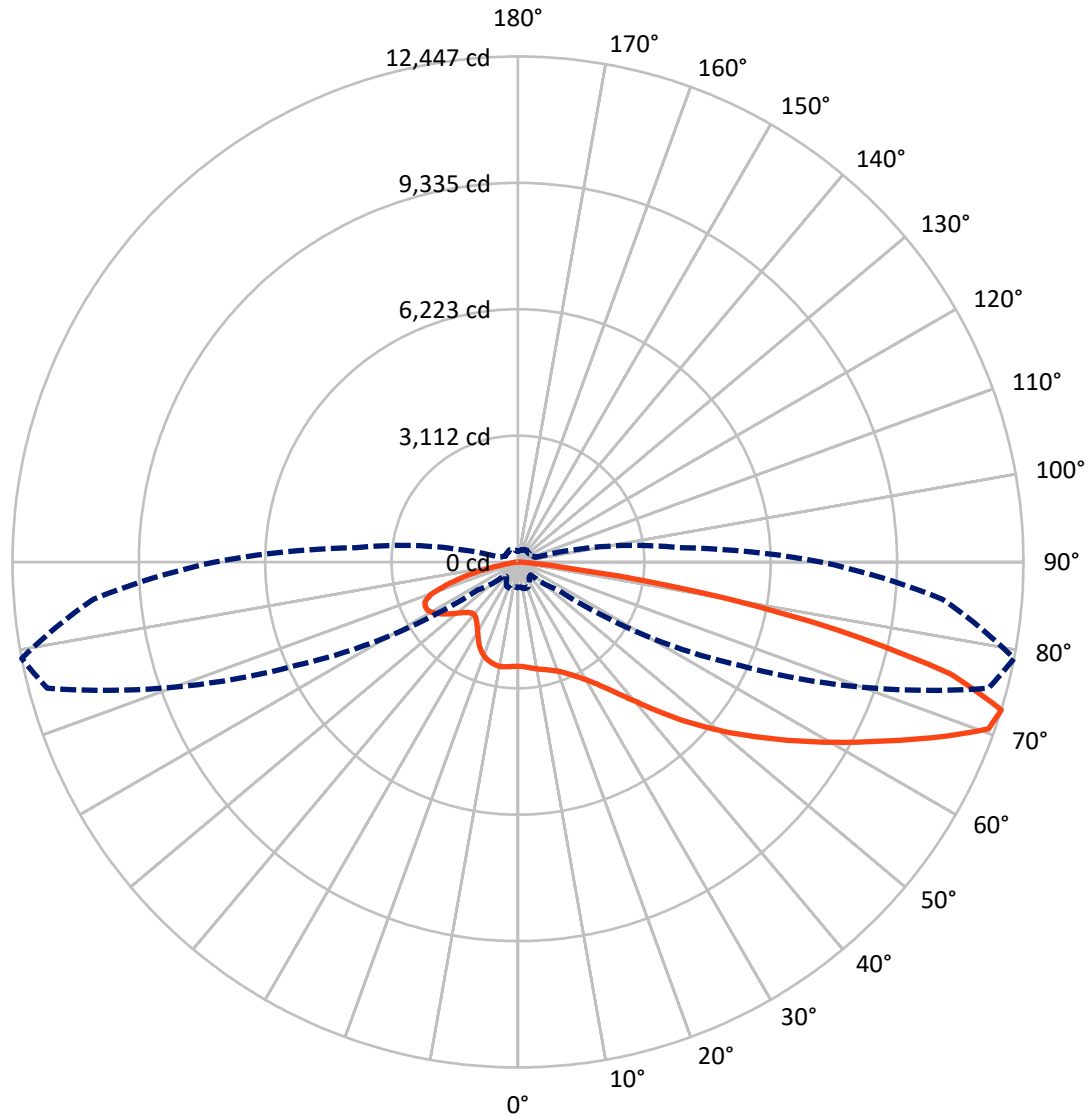
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.8	0.0	2815.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9980.2	0.0	9980.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	12796.0	0.0	12796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	1.8
10°-20°	609.6	4.8
20°-30°	983.6	7.7
30°-40°	1476.3	11.5
40°-50°	2094.2	16.4
50°-60°	2644.7	20.7
60°-70°	2686.1	21.0
70°-80°	1830.7	14.3
80°-90°	237.5	1.9
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°	12796.0	100.0
0°-180°	12796.0	100.0

Coefficient of Utilization



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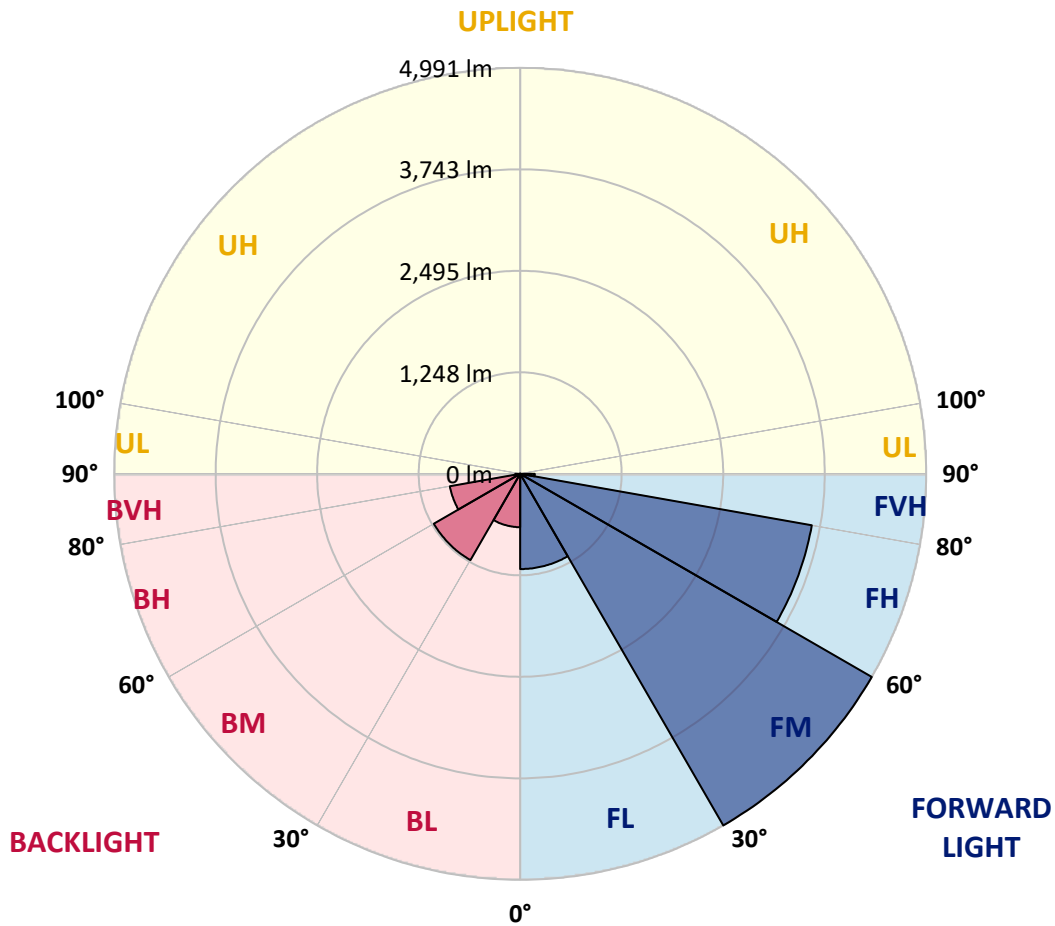
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.5	9.1			
FM (30°-60°)	4990.7	39.0			
FH (60°-80°)	3640.0	28.4			G2/5000
FVH (80°-90°)	178.9	1.4			G2/225
BL (0°-30°)	655.9	5.1	B2/1000		
BM (30°-60°)	1224.6	9.6	B2/2500		
BH (60°-80°)	876.8	6.9	B2/1000		G2/1000
BVH (80°-90°)	58.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7
2.5°	2570.0	2557.8	2565.3	2562.6	2566.0	2570.0	2571.4	2573.4	2580.2	2579.5
5°	2564.6	2552.4	2562.6	2559.2	2568.0	2577.5	2585.6	2593.0	2603.9	2608.6
7.5°	2553.1	2545.0	2555.1	2565.3	2581.5	2595.7	2607.3	2624.2	2639.7	2642.5
10°	2486.1	2480.0	2503.7	2530.1	2574.8	2613.3	2638.4	2658.0	2674.9	2677.6
12.5°	2416.4	2408.9	2435.3	2471.2	2543.6	2613.3	2666.1	2691.9	2706.8	2715.6
15°	2404.9	2398.8	2413.7	2444.8	2505.1	2595.1	2685.1	2732.5	2745.3	2755.5
17.5°	2460.4	2448.9	2455.0	2465.8	2501.0	2578.2	2700.0	2778.5	2798.1	2809.0
20°	2589.0	2572.7	2563.3	2541.6	2535.5	2580.9	2698.6	2834.0	2859.7	2873.3
22.5°	2760.2	2749.4	2729.1	2674.3	2614.7	2614.0	2724.4	2905.1	2953.1	2966.0
25°	2967.3	2951.1	2925.4	2850.9	2736.5	2679.7	2767.7	2995.8	3076.3	3079.7
27.5°	3205.6	3181.2	3146.0	3047.9	2893.6	2782.6	2834.0	3100.0	3217.8	3216.4
30°	3456.7	3432.3	3395.1	3276.0	3081.7	2921.3	2926.1	3212.4	3385.6	3378.2
32.5°	3640.1	3621.9	3614.4	3522.4	3298.3	3085.1	3031.6	3336.9	3592.8	3586.0
35°	3780.9	3757.2	3766.0	3719.3	3534.6	3268.5	3160.9	3485.1	3844.6	3843.9
37.5°	3920.4	3899.4	3906.8	3875.7	3753.2	3501.4	3318.6	3666.5	4156.6	4171.5
40°	4047.6	4025.3	4055.1	4026.0	3923.1	3749.1	3498.0	3871.6	4518.0	4546.5
42.5°	4124.1	4106.5	4155.9	4156.6	4070.6	3958.3	3695.0	4097.7	4936.3	4999.9
45°	4150.5	4144.4	4218.9	4234.4	4201.3	4079.4	3872.3	4344.1	5387.1	5500.8
47.5°	4122.1	4110.6	4213.4	4271.0	4297.4	4136.3	4019.2	4610.8	5847.4	6013.9
50°	3978.6	3956.2	4109.2	4230.4	4324.4	4173.5	4167.4	4918.7	6370.6	6552.7
52.5°	3720.7	3703.8	3877.7	4088.2	4264.9	4191.8	4333.9	5255.1	6867.4	7102.9
55°	3391.1	3368.7	3560.3	3835.1	4116.6	4185.7	4500.4	5631.5	7453.6	7692.5
57.5°	2868.5	2823.9	3066.2	3391.1	3875.0	4178.2	4673.7	6005.8	8049.2	8335.5
60°	2106.4	2040.0	2337.2	2722.3	3402.6	4105.8	4888.3	6425.4	8764.0	9021.8
62.5°	1226.5	1187.9	1382.1	1741.6	2564.6	3679.4	5008.7	6913.4	9466.5	9737.3
65°	952.3	941.5	958.4	986.2	1427.5	2754.8	4637.2	7389.3	10360.0	10549.5
67.5°	871.1	863.0	870.4	818.3	724.2	1534.4	3668.6	7509.7	11317.1	11432.1
70°	774.3	764.8	789.2	744.5	569.9	697.8	2370.4	7072.5	12078.5	12294.4
72.5°	630.8	620.0	676.9	656.6	479.9	448.1	1190.6	6033.5	11998.7	12446.7
75°	484.6	478.5	546.2	563.1	391.2	352.6	571.3	4484.9	10559.0	11010.4
77.5°	376.3	371.6	406.1	467.7	315.4	273.5	351.3	2844.8	7957.1	8036.3
80°	282.2	268.7	300.5	362.1	245.7	199.7	238.3	1659.0	5029.7	4559.3
82.5°	176.7	169.9	196.3	241.6	173.3	137.4	155.0	916.5	2015.7	1187.2
85°	100.9	98.1	106.9	138.1	94.1	79.2	88.7	404.8	368.2	253.1
87.5°	40.6	39.3	48.7	61.6	34.5	29.1	31.1	97.5	81.2	75.1
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°
2568.7	0°	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7	2568.7
2578.8	2.5°	2576.1	2576.1	2566.6	2551.8	2534.8	2524.0	2506.4	2501.7	2483.4	2478.0
2601.8	5°	2607.3	2601.8	2572.7	2530.8	2473.2	2420.4	2362.2	2325.7	2274.2	2256.0
2647.2	7.5°	2646.5	2631.6	2581.5	2489.5	2369.0	2250.6	2127.4	2034.0	1944.6	1912.8
2684.4	10°	2682.4	2661.4	2576.1	2415.0	2206.6	2001.5	1805.2	1667.8	1563.5	1520.9
2725.7	12.5°	2718.3	2679.7	2540.2	2291.2	1975.7	1697.6	1488.4	1381.5	1317.2	1265.7
2759.5	15°	2752.1	2698.0	2484.7	2125.3	1722.6	1440.4	1286.0	1200.7	1149.3	1115.5
2809.0	17.5°	2791.4	2713.5	2401.5	1914.8	1481.6	1262.3	1136.4	1085.0	1074.9	1070.8
2876.6	20°	2846.2	2727.7	2291.8	1679.3	1304.3	1120.2	1055.2	1050.5	1049.8	1047.8
2957.9	22.5°	2905.1	2744.7	2147.0	1465.4	1153.4	1031.5	1020.0	1010.5	1004.5	1003.8
3056.0	25°	2974.8	2750.1	1965.6	1290.1	1024.8	989.6	976.0	961.8	957.8	957.8
3167.7	27.5°	3042.5	2731.8	1754.4	1137.8	952.3	951.0	933.4	928.6	928.0	930.0
3294.9	30°	3110.2	2697.3	1544.6	997.0	910.4	910.4	904.3	907.7	910.4	917.1
3469.6	32.5°	3201.5	2660.7	1369.3	892.8	873.8	867.1	873.1	879.9	882.6	891.4
3699.0	35°	3335.6	2635.0	1229.9	835.9	835.9	827.1	830.5	829.2	823.1	819.0
3976.5	37.5°	3512.9	2633.7	1114.8	809.5	804.1	802.8	803.4	794.6	770.9	742.5
4312.3	40°	3726.1	2670.2	1026.1	791.2	787.2	795.3	791.2	767.6	702.6	653.2
4725.1	42.5°	4012.4	2774.4	969.3	768.9	781.1	791.2	775.0	693.1	649.1	615.9
5195.6	45°	4349.5	2943.7	940.2	745.2	769.6	781.8	703.3	667.4	632.2	592.3
5708.6	47.5°	4731.2	3156.9	933.4	722.9	743.9	751.3	672.8	656.6	616.6	573.3
6224.4	50°	5146.8	3409.3	951.7	696.5	706.6	680.9	662.6	647.8	606.5	563.8
6753.0	52.5°	5576.6	3687.5	988.2	660.6	669.4	641.0	658.6	645.7	600.4	542.8
7299.2	55°	5999.0	3967.7	1023.4	618.6	631.5	605.1	647.1	637.6	572.6	507.6
7882.0	57.5°	6428.1	4246.6	1057.9	581.4	595.0	570.6	628.8	615.9	541.5	475.2
8518.3	60°	6874.2	4517.3	1074.2	545.5	555.0	538.8	601.0	578.7	506.3	442.0
9143.7	62.5°	7291.8	4742.7	1047.8	509.7	515.8	509.0	564.5	534.7	471.1	404.8
9795.5	65°	7710.8	4876.8	966.6	474.5	475.8	472.4	513.1	487.3	429.8	372.3
10366.1	67.5°	8090.5	4951.9	837.3	436.6	433.2	431.8	465.0	435.9	389.9	339.8
10799.9	70°	8171.0	4761.0	639.6	391.9	391.9	388.5	412.2	382.4	345.9	305.3
10489.3	72.5°	7463.0	4005.0	454.2	341.1	346.6	339.8	359.4	334.4	301.2	274.1
9040.1	75°	6017.9	2936.9	330.3	289.0	298.5	287.0	305.3	287.7	259.2	258.6
6229.8	77.5°	4134.9	1816.0	239.6	238.3	245.0	230.1	251.1	241.6	215.9	204.4
2711.5	80°	1764.6	724.2	174.6	184.1	184.1	170.6	194.9	197.6	175.3	169.9
523.2	82.5°	351.3	205.8	122.5	126.6	119.1	115.1	138.1	153.0	211.2	234.9
157.7	85°	105.6	75.8	73.8	69.0	60.9	61.6	81.2	153.6	189.5	108.3
52.1	87.5°	29.1	19.0	19.6	15.6	12.9	16.9	27.8	116.4	63.6	27.1
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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180°
2568.7
2486.8
2269.5
1916.9
1530.4
1282.6
1121.6
1073.5
1054.5
1011.2
961.8
935.4
921.9
898.9
828.5
743.2
651.8
614.6
589.5
569.9
559.1
538.8
504.3
473.8
440.0
404.1
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266.0
232.8
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