

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: P949195

Luminaire Tested: **GALN-SB4A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18456 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

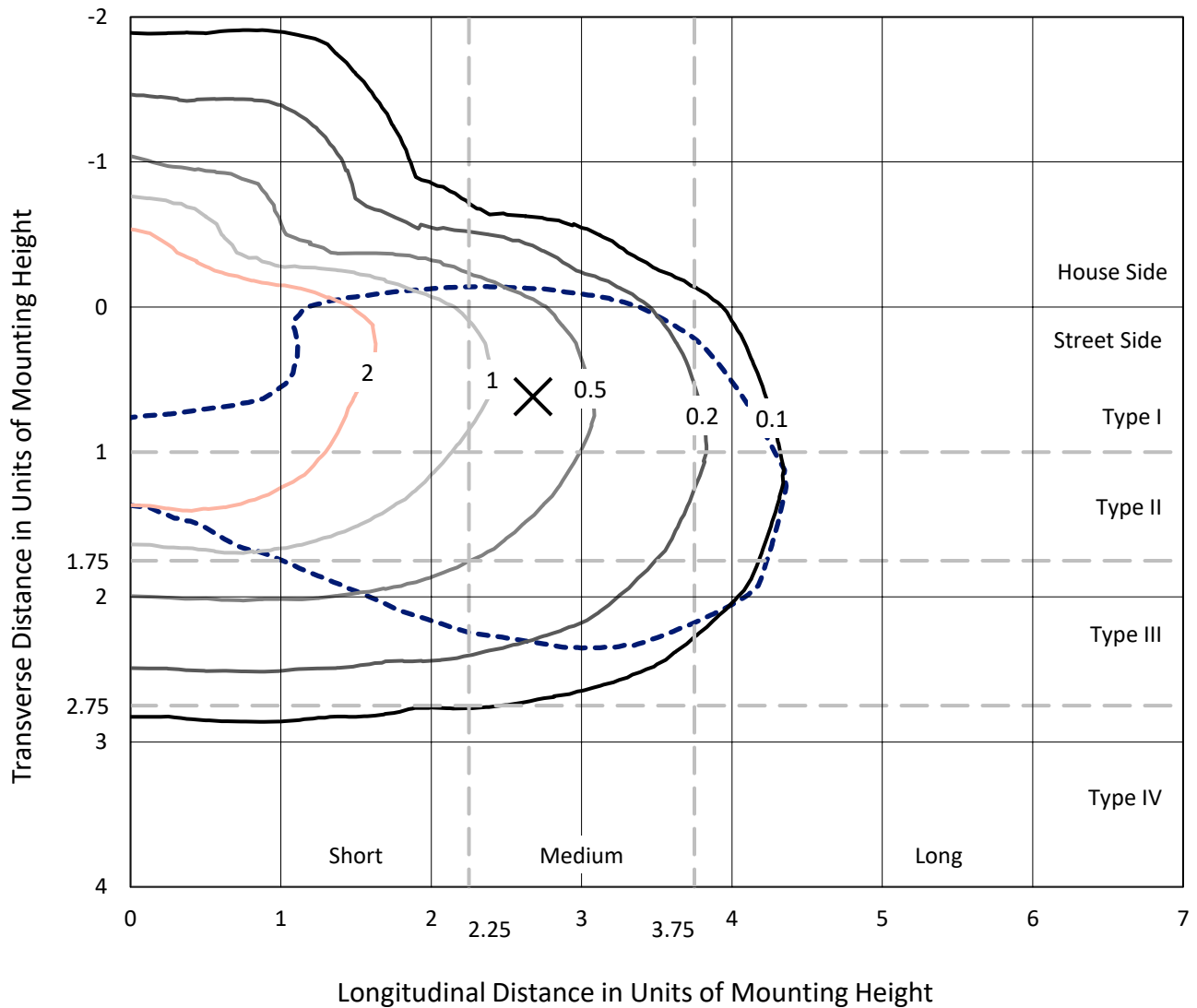
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

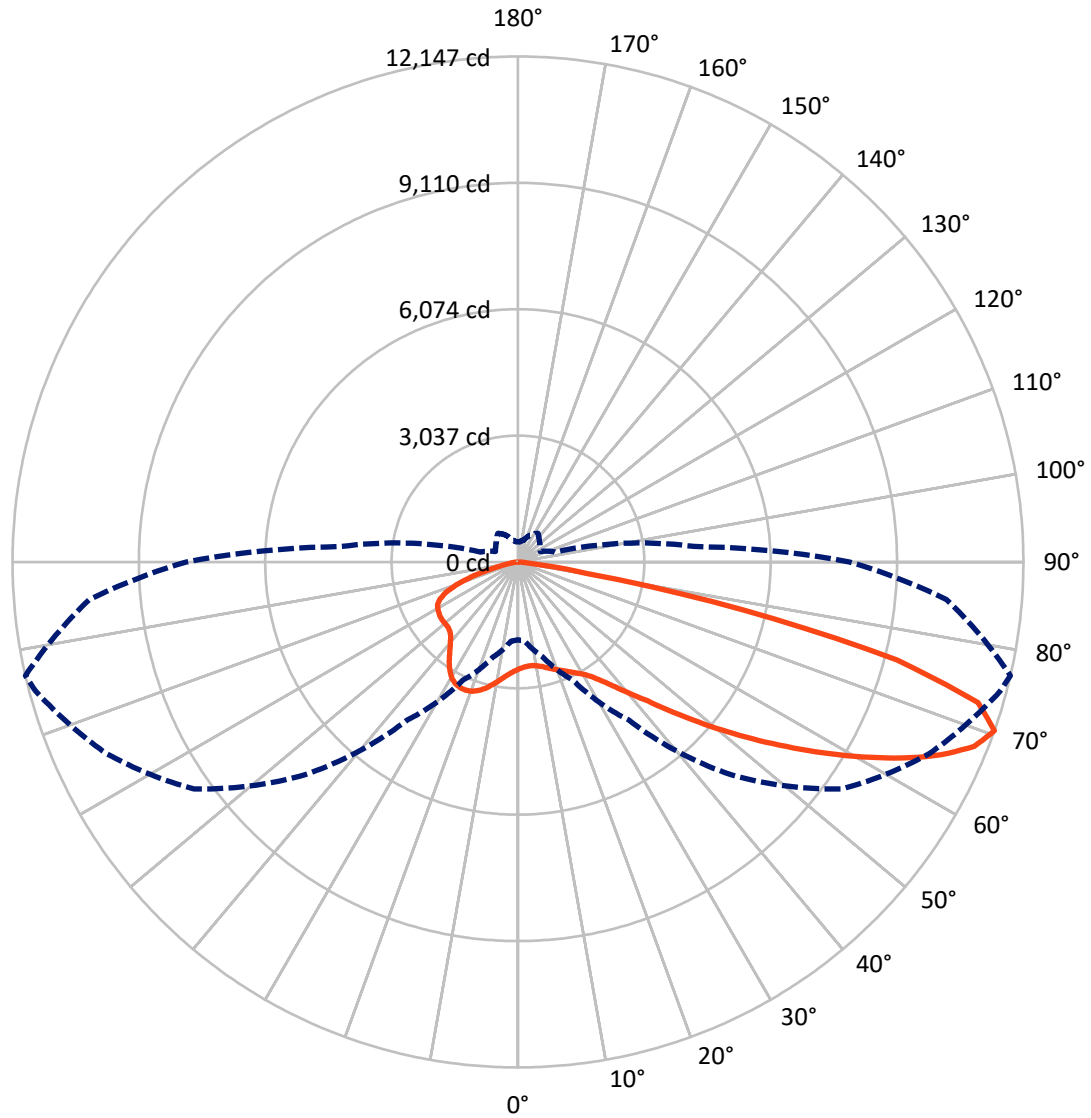
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4041.6	0.0	4041.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14414.4	0.0	14414.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	18456.0	0.0	18456.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.3
10°-20°	708.7	3.8
20°-30°	1212.0	6.6
30°-40°	1949.0	10.6
40°-50°	3043.0	16.5
50°-60°	4064.7	22.0
60°-70°	4332.3	23.5
70°-80°	2667.0	14.5
80°-90°	233.7	1.3
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°	18456.0	100.0
0°-180°	18456.0	100.0



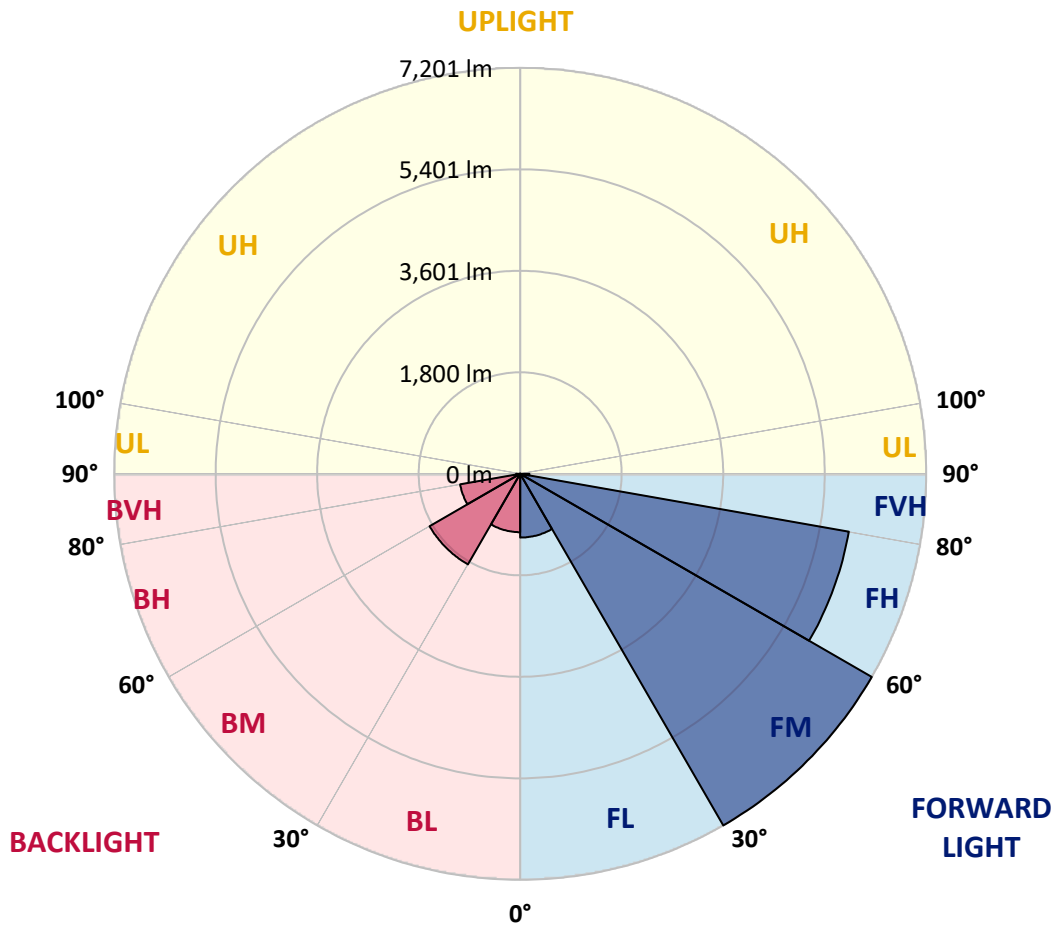
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.7	6.1			
FM (30°-60°)	7201.1	39.0			
FH (60°-80°)	5919.1	32.1			G3/7500
FVH (80°-90°)	163.4	0.9			G2/225
BL (0°-30°)	1035.6	5.6	B3/2500		
BM (30°-60°)	1855.6	10.1	B2/2500		
BH (60°-80°)	1080.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	70.3	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8
2.5°	2373.4	2372.5	2384.8	2388.6	2411.3	2427.3	2457.6	2489.7	2531.3	2536.0
5°	2236.4	2236.4	2250.6	2265.7	2295.0	2327.1	2373.4	2429.2	2501.1	2512.4
7.5°	2120.1	2127.7	2140.0	2169.3	2203.3	2249.6	2320.5	2399.9	2494.4	2512.4
10°	2026.6	2035.1	2050.2	2073.8	2124.9	2189.1	2281.8	2383.8	2510.5	2538.9
12.5°	1997.3	2005.8	2014.3	2032.2	2079.5	2155.1	2265.7	2391.4	2549.3	2577.6
15°	2065.3	2075.7	2069.1	2064.4	2088.9	2157.9	2273.3	2418.8	2597.5	2638.1
17.5°	2222.2	2226.0	2210.9	2166.4	2162.7	2199.5	2309.2	2456.6	2658.0	2702.4
20°	2475.5	2468.9	2437.7	2349.8	2299.7	2292.2	2370.6	2513.3	2720.3	2767.6
22.5°	2819.6	2812.0	2749.6	2610.7	2499.2	2425.4	2459.5	2587.1	2790.3	2843.2
25°	3248.7	3238.3	3146.6	2957.6	2784.6	2602.2	2580.5	2684.4	2876.3	2925.5
27.5°	3749.7	3741.2	3641.9	3392.4	3142.9	2844.2	2730.7	2798.8	2966.1	3021.9
30°	4288.5	4313.0	4137.2	3868.8	3553.1	3159.9	2933.0	2939.6	3082.4	3132.5
32.5°	4921.8	4964.3	4752.6	4412.3	3981.3	3503.0	3188.2	3136.2	3251.6	3293.1
35°	5549.4	5597.6	5421.8	5045.6	4549.3	3907.5	3454.8	3362.1	3476.5	3521.9
37.5°	6091.9	6156.2	6065.5	5738.4	5157.1	4395.3	3802.6	3627.8	3753.5	3810.2
40°	6520.1	6618.4	6611.8	6407.6	5873.6	4987.0	4244.0	3955.7	4097.5	4159.0
42.5°	6868.0	6953.0	7026.8	7016.4	6621.3	5659.0	4763.0	4382.0	4489.8	4560.7
45°	7108.1	7198.8	7357.6	7528.7	7340.6	6378.3	5357.5	4887.7	4986.0	5092.8
47.5°	7322.6	7425.7	7631.7	7903.0	7951.2	7100.5	6008.8	5476.6	5566.4	5677.0
50°	7341.5	7430.4	7749.9	8134.6	8385.1	7794.3	6708.2	6137.3	6221.4	6339.6
52.5°	6885.0	7024.9	7582.6	8128.0	8584.5	8374.7	7403.0	6824.5	6919.0	7060.8
55°	5344.3	5549.4	7092.0	7874.6	8513.6	8749.9	8063.7	7555.1	7676.1	7824.5
57.5°	4603.2	4693.0	5629.7	7413.4	8190.3	8847.3	8621.4	8293.4	8488.1	8650.7
60°	4137.2	4211.9	4765.8	6695.9	7765.0	8693.2	9052.4	8981.5	9318.0	9511.8
62.5°	3638.2	3709.0	4212.8	5591.0	7220.5	8437.0	9324.6	9616.7	10168.7	10380.4
65°	3142.9	3203.4	3686.4	4697.7	6528.6	8180.9	9465.4	10165.8	10956.0	11175.3
67.5°	2590.8	2640.9	3097.5	3963.3	5687.4	7830.2	9535.4	10597.8	11641.3	11829.4
70°	1869.6	1908.4	2380.1	3134.4	4631.6	7227.2	9507.0	10904.1	11996.7	12147.0
72.5°	883.8	918.8	1472.7	2035.1	3271.4	6053.2	8933.3	10661.1	11635.7	11561.0
75°	471.7	501.9	846.0	1116.3	1727.9	4149.5	7310.3	9183.8	9770.7	9407.8
77.5°	319.5	343.1	523.7	670.2	789.3	1969.8	4698.7	6358.5	6117.5	5518.2
80°	253.3	277.9	429.1	453.7	381.9	711.8	1941.5	2943.4	2114.5	1691.0
82.5°	194.7	222.1	361.1	328.9	207.9	292.1	565.2	931.0	541.6	412.1
85°	119.1	148.4	283.6	209.8	117.2	133.3	191.9	259.0	165.4	138.0
87.5°	60.5	85.1	143.7	76.6	52.9	31.2	51.0	51.0	43.5	37.8
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°
2574.8	0°	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8
2561.5	2.5°	2584.2	2603.1	2635.3	2665.5	2689.2	2711.8	2734.5	2746.8	2750.6	2765.7
2575.7	5°	2614.5	2649.5	2711.8	2770.4	2807.3	2830.0	2846.1	2855.5	2857.4	2862.1
2614.5	7.5°	2670.2	2726.0	2813.0	2871.6	2899.0	2897.1	2890.5	2866.9	2857.4	2848.9
2671.2	10°	2748.7	2822.4	2929.2	2969.9	2952.9	2907.5	2848.9	2779.9	2747.8	2716.6
2748.7	12.5°	2846.1	2939.6	3044.6	3042.7	2958.5	2842.3	2706.2	2600.3	2533.2	2485.0
2844.2	15°	2964.2	3072.0	3152.3	3088.0	2903.7	2694.8	2495.4	2357.4	2296.9	2244.0
2940.6	17.5°	3086.1	3201.5	3238.3	3073.9	2765.7	2476.5	2250.6	2141.9	2082.3	2054.0
3044.6	20°	3205.2	3319.6	3289.4	2992.6	2555.9	2228.8	2027.5	1967.9	1955.7	1962.3
3145.7	22.5°	3331.0	3433.0	3299.8	2835.7	2288.4	1975.5	1864.9	1866.8	1894.2	1914.1
3251.6	25°	3459.5	3528.5	3272.4	2608.8	2001.0	1789.3	1761.9	1792.1	1846.0	1884.8
3370.7	27.5°	3583.3	3613.6	3212.8	2328.1	1754.3	1656.0	1660.8	1723.1	1804.4	1858.3
3515.3	30°	3723.2	3689.2	3098.4	2012.4	1583.2	1541.7	1581.4	1654.1	1735.4	1783.6
3697.7	32.5°	3881.1	3754.4	2917.0	1720.3	1462.3	1450.0	1515.2	1562.4	1598.4	1612.5
3939.7	35°	4077.7	3846.1	2684.4	1515.2	1353.6	1382.9	1445.2	1421.6	1407.4	1399.9
4264.8	37.5°	4332.9	3969.9	2412.2	1381.9	1265.7	1334.7	1360.2	1286.4	1230.7	1203.3
4659.0	40°	4640.1	4151.4	2150.4	1278.9	1209.9	1293.1	1248.6	1159.8	1088.9	1050.1
5102.3	42.5°	4981.3	4341.4	1930.1	1201.4	1178.7	1259.0	1166.4	1060.5	946.2	933.9
5630.7	45°	5339.6	4537.1	1779.9	1141.8	1163.6	1229.7	1119.1	948.1	866.8	916.9
6160.9	47.5°	5697.8	4716.6	1689.1	1097.4	1156.0	1196.6	1077.6	885.7	828.0	900.8
6729.0	50°	6096.7	4877.3	1648.5	1065.3	1147.5	1183.4	1015.2	869.6	787.4	835.6
7317.0	52.5°	6492.7	5002.1	1618.2	1033.1	1135.2	1173.0	984.9	850.7	738.2	741.1
7908.7	55°	6887.8	5083.4	1585.1	990.6	1107.8	1150.3	982.1	829.9	701.4	688.1
8534.4	57.5°	7309.4	5129.7	1544.5	943.3	1060.5	1092.7	979.2	813.8	690.0	668.3
9174.3	60°	7738.5	5197.8	1491.6	885.7	997.2	1023.7	972.6	808.2	683.4	646.5
9777.4	62.5°	8123.2	5221.4	1428.2	830.8	915.9	955.6	958.5	803.4	665.4	602.1
10278.3	65°	8375.6	5119.3	1317.6	768.5	828.0	885.7	931.0	787.4	633.3	570.0
10526.0	67.5°	8365.2	4828.2	1144.7	688.1	742.9	808.2	891.3	760.0	594.5	530.3
10338.8	70°	7975.8	4253.5	925.4	594.5	649.4	725.0	840.3	719.3	548.2	486.8
9193.2	72.5°	6840.6	3329.1	672.1	484.9	540.7	639.0	774.1	670.2	501.0	448.0
6794.2	75°	4886.8	2106.9	455.6	372.4	420.6	541.6	691.9	612.5	457.5	449.9
3402.8	77.5°	2496.3	1006.7	301.5	272.2	293.0	427.2	581.3	547.3	464.1	371.5
967.9	80°	811.9	371.5	190.0	185.3	194.7	284.5	449.9	449.0	351.6	252.4
234.4	82.5°	259.0	159.7	123.8	119.1	114.4	178.6	313.8	355.4	237.3	159.7
84.1	85°	103.0	95.5	72.8	67.1	48.2	84.1	164.5	236.3	176.8	115.3
21.7	87.5°	37.8	37.8	19.8	14.2	10.4	28.4	44.4	70.9	101.1	59.5
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>
2574.8
2774.2
2869.7
2850.8
2707.1
2473.6
2238.3
2062.5
1959.4
1918.8
1895.2
1871.5
1795.0
1620.1
1407.4
1209.9
1053.0
946.2
943.3
934.8
871.5
760.9
697.6
671.1
649.4
602.1
570.0
533.1
492.5
445.2
424.4
330.8
223.1
158.8
118.2
58.6
0.0

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