

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: P948481

Luminaire Tested: **GALN-SB3C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948481
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-SB3C-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23068 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

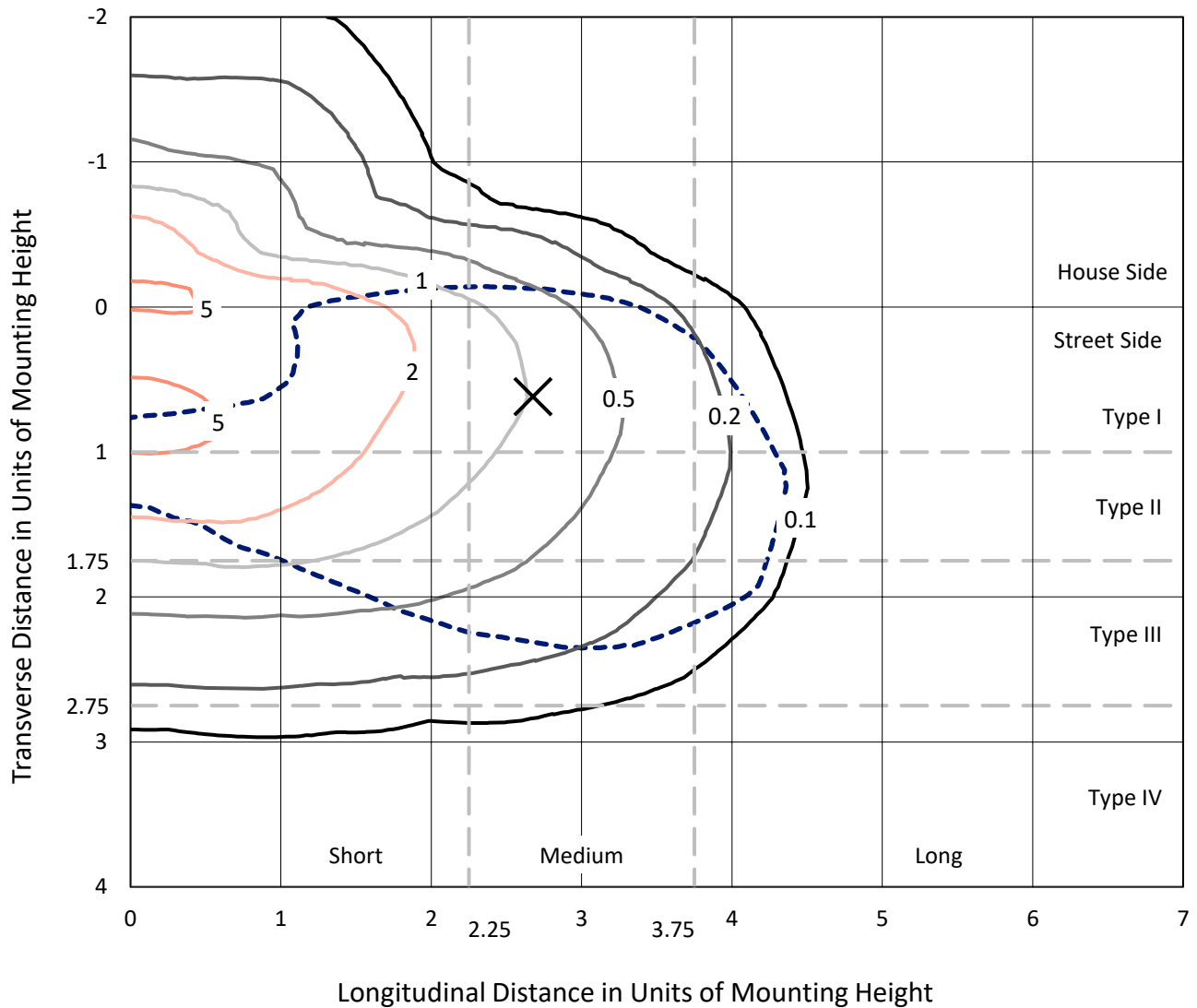
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

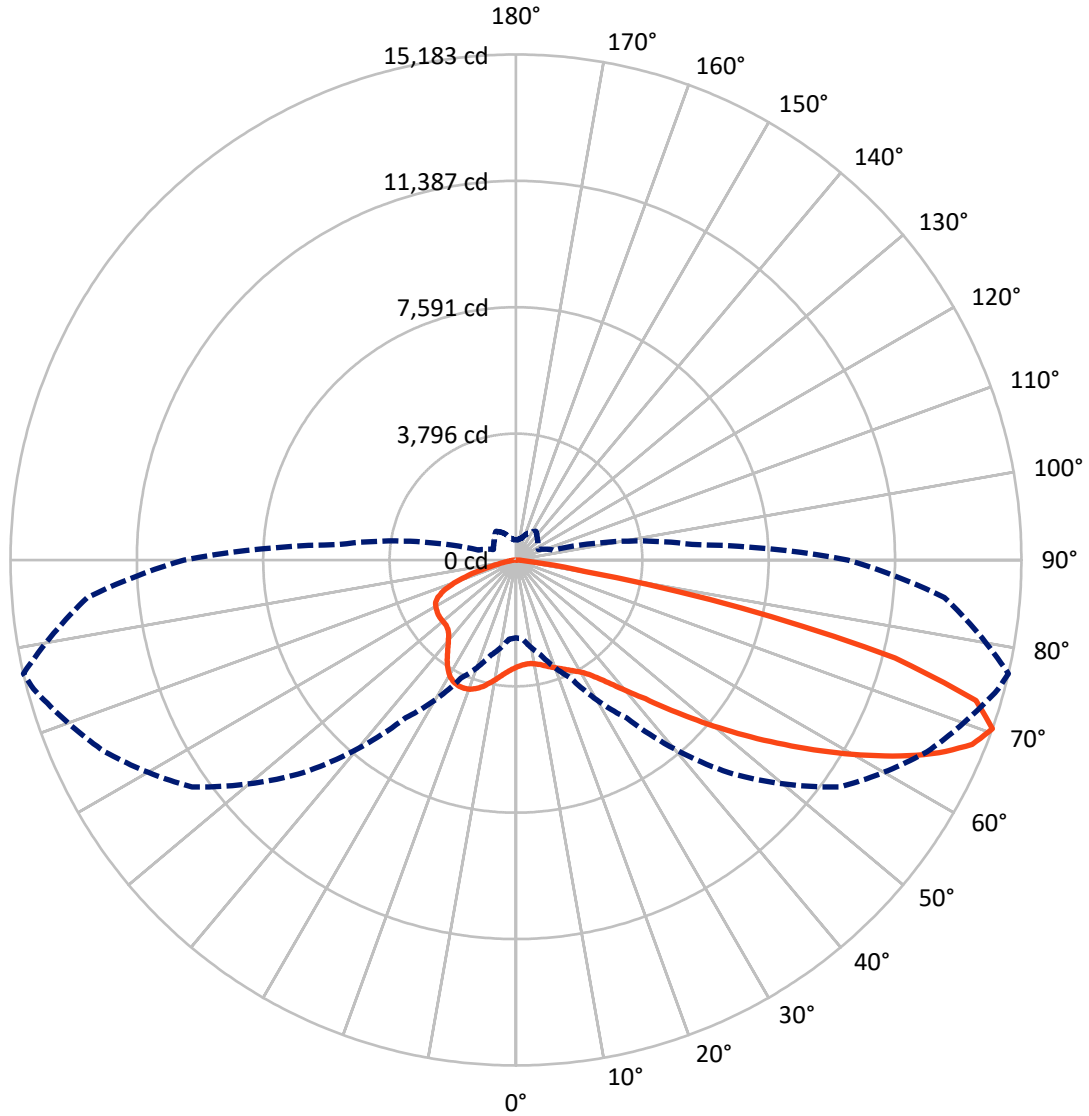
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5051.5	0.0	5051.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	18016.5	0.0	18016.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	23068.0	0.0	23068.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	1.3
10°-20°	885.8	3.8
20°-30°	1514.9	6.6
30°-40°	2436.1	10.6
40°-50°	3803.4	16.5
50°-60°	5080.4	22.0
60°-70°	5414.9	23.5
70°-80°	3333.4	14.5
80°-90°	292.1	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°	23068.0	100.0
0°-180°	23068.0	100.0



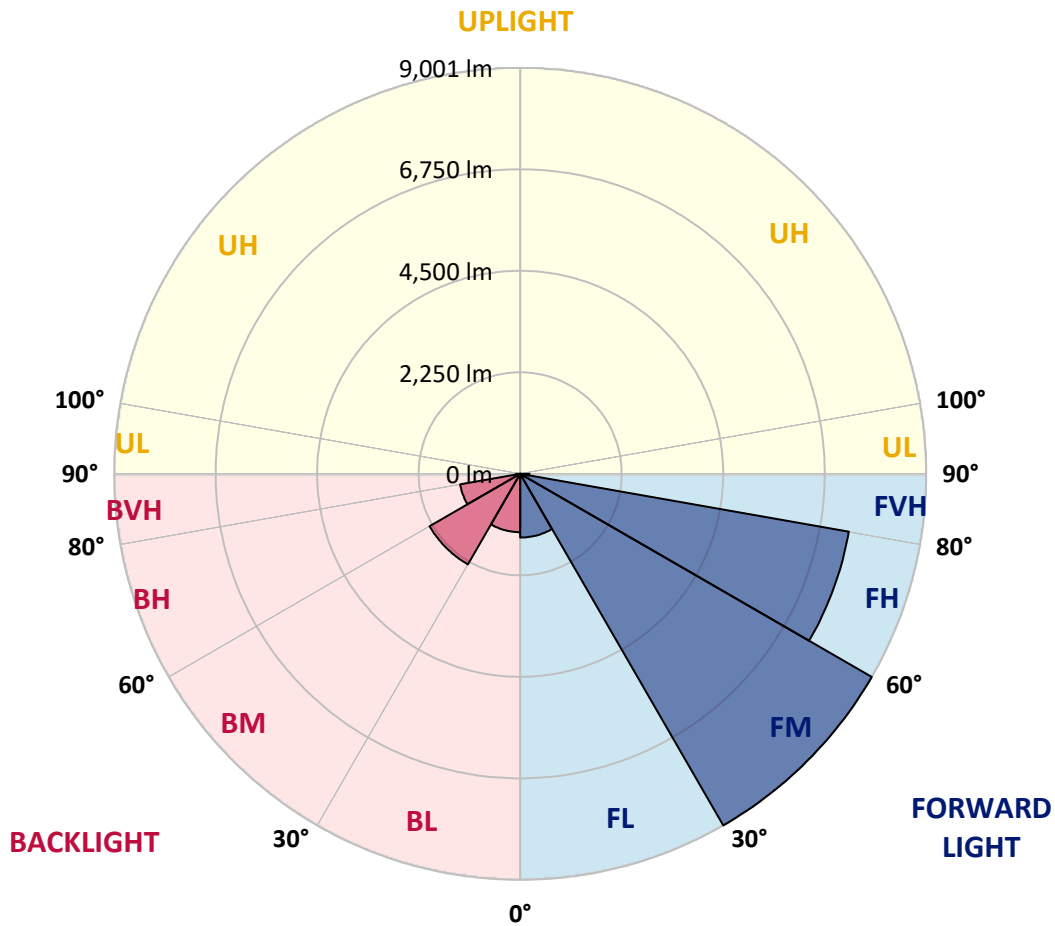
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.3	6.1			
FM (30°-60°)	9000.6	39.0			
FH (60°-80°)	7398.3	32.1			G3/7500
FVH (80°-90°)	204.3	0.9			G2/225
BL (0°-30°)	1294.4	5.6	B3/2500		
BM (30°-60°)	2319.3	10.1	B2/2500		
BH (60°-80°)	1350.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	87.8	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°	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2
2.5°	2966.6	2965.4	2980.7	2985.5	3013.8	3033.9	3071.7	3111.9	3163.9	3169.8
5°	2795.2	2795.2	2813.0	2831.9	2868.5	2908.7	2966.6	3036.3	3126.0	3140.2
7.5°	2649.9	2659.4	2674.7	2711.4	2753.9	2811.8	2900.4	2999.6	3117.8	3140.2
10°	2533.0	2543.6	2562.5	2592.0	2655.8	2736.2	2852.0	2979.5	3137.9	3173.3
12.5°	2496.3	2507.0	2517.6	2540.1	2599.1	2693.6	2831.9	2989.0	3186.3	3221.7
15°	2581.4	2594.4	2586.1	2580.2	2610.9	2697.2	2841.3	3023.3	3246.6	3297.4
17.5°	2777.5	2782.3	2763.3	2707.8	2703.1	2749.2	2886.2	3070.5	3322.2	3377.7
20°	3094.1	3085.9	3046.9	2937.0	2874.4	2865.0	2963.0	3141.4	3400.1	3459.2
22.5°	3524.2	3514.7	3436.8	3263.1	3123.7	3031.5	3074.1	3233.6	3487.6	3553.7
25°	4060.6	4047.6	3933.0	3696.7	3480.5	3252.5	3225.3	3355.2	3595.1	3656.5
27.5°	4686.7	4676.1	4552.0	4240.1	3928.2	3554.9	3413.1	3498.2	3707.3	3777.0
30°	5360.1	5390.8	5171.1	4835.6	4441.0	3949.5	3666.0	3674.2	3852.6	3915.2
32.5°	6151.7	6204.8	5940.2	5514.9	4976.2	4378.4	3984.9	3920.0	4064.1	4116.1
35°	6936.1	6996.4	6776.6	6306.4	5686.2	4884.0	4318.1	4202.3	4345.3	4402.0
37.5°	7614.3	7694.6	7581.2	7172.4	6445.8	5493.6	4752.9	4534.3	4691.4	4762.3
40°	8149.5	8272.3	8264.1	8008.9	7341.4	6233.2	5304.6	4944.3	5121.5	5198.3
42.5°	8584.2	8690.5	8782.7	8769.7	8275.9	7073.2	5953.2	5477.1	5611.8	5700.4
45°	8884.3	8997.7	9196.2	9410.0	9174.9	7972.2	6696.3	6109.1	6232.0	6365.5
47.5°	9152.5	9281.3	9538.8	9877.9	9938.1	8874.9	7510.3	6845.2	6957.4	7095.6
50°	9176.1	9287.2	9686.5	10167.3	10480.4	9742.0	8384.6	7671.0	7776.1	7923.8
52.5°	8605.5	8780.3	9477.4	10159.1	10729.7	10467.4	9252.9	8529.9	8648.0	8825.2
55°	6679.8	6936.1	8864.2	9842.4	10641.1	10936.4	10078.7	9443.1	9594.3	9779.8
57.5°	5753.5	5865.8	7036.6	9265.9	10237.0	11058.1	10775.8	10365.8	10609.2	10812.4
60°	5171.1	5264.4	5956.7	8369.2	9705.4	10865.5	11314.5	11225.9	11646.5	11888.7
62.5°	4547.3	4635.9	5265.6	6988.1	9024.9	10545.4	11654.7	12019.8	12709.7	12974.4
65°	3928.2	4003.8	4607.5	5871.7	8160.1	10225.2	11830.8	12706.2	13693.9	13968.0
67.5°	3238.3	3300.9	3871.5	4953.7	7108.6	9786.9	11918.2	13246.1	14550.4	14785.5
70°	2336.9	2385.3	2974.8	3917.6	5789.0	9033.2	11882.8	13628.9	14994.6	15182.5
72.5°	1104.6	1148.3	1840.7	2543.6	4088.9	7565.8	11165.6	13325.3	14543.3	14450.0
75°	589.5	627.3	1057.4	1395.3	2159.6	5186.4	9137.1	11478.7	12212.4	11758.7
77.5°	399.3	428.9	654.5	837.6	986.5	2462.1	5872.9	7947.4	7646.2	6897.1
80°	316.6	347.3	536.4	567.1	477.3	889.6	2426.6	3679.0	2642.8	2113.6
82.5°	243.4	277.6	451.3	411.1	259.9	365.1	706.5	1163.7	677.0	515.1
85°	148.9	185.5	354.4	262.3	146.5	166.6	239.8	323.7	206.7	172.5
87.5°	75.6	106.3	179.6	95.7	66.2	39.0	63.8	63.8	54.3	47.3
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°
3218.2	0°	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2	3218.2
3201.7	2.5°	3230.0	3253.6	3293.8	3331.6	3361.1	3389.5	3417.9	3433.2	3437.9	3456.8
3219.4	5°	3267.8	3311.5	3389.5	3462.8	3508.8	3537.2	3557.3	3569.1	3571.4	3577.3
3267.8	7.5°	3337.5	3407.2	3515.9	3589.2	3623.4	3621.1	3612.8	3583.3	3571.4	3560.8
3338.7	10°	3435.6	3527.7	3661.2	3712.0	3690.8	3634.1	3560.8	3474.6	3434.4	3395.4
3435.6	12.5°	3557.3	3674.2	3805.4	3803.0	3697.9	3552.5	3382.4	3250.1	3166.2	3106.0
3554.9	15°	3704.9	3839.6	3940.0	3859.7	3629.3	3368.2	3119.0	2946.5	2870.9	2804.7
3675.4	17.5°	3857.3	4001.5	4047.6	3842.0	3456.8	3095.3	2813.0	2677.1	2602.7	2567.2
3805.4	20°	4006.2	4149.2	4111.4	3740.4	3194.6	2785.8	2534.2	2459.7	2444.4	2452.6
3931.8	22.5°	4163.3	4290.9	4124.3	3544.3	2860.2	2469.2	2330.9	2333.3	2367.6	2392.4
4064.1	25°	4324.0	4410.3	4090.1	3260.7	2501.1	2236.4	2202.2	2240.0	2307.3	2355.8
4213.0	27.5°	4478.8	4516.6	4015.7	2909.8	2192.7	2069.9	2075.8	2153.7	2255.3	2322.7
4393.7	30°	4653.6	4611.1	3872.7	2515.2	1978.9	1926.9	1976.5	2067.5	2169.1	2229.3
4621.7	32.5°	4850.9	4692.6	3645.9	2150.2	1827.7	1812.3	1893.8	1952.9	1997.8	2015.5
4924.2	35°	5096.7	4807.2	3355.2	1893.8	1691.8	1728.4	1806.4	1776.9	1759.1	1749.7
5330.6	37.5°	5415.6	4962.0	3015.0	1727.2	1581.9	1668.2	1700.1	1607.9	1538.2	1504.0
5823.2	40°	5799.6	5188.8	2687.7	1598.5	1512.2	1616.2	1560.7	1449.6	1361.0	1312.6
6377.3	42.5°	6226.1	5426.3	2412.5	1501.6	1473.2	1573.7	1457.9	1325.6	1182.6	1167.2
7037.7	45°	6673.9	5670.8	2224.6	1427.2	1454.3	1537.0	1398.8	1185.0	1083.4	1146.0
7700.5	47.5°	7121.6	5895.3	2111.2	1371.6	1444.9	1495.7	1346.8	1107.0	1034.9	1125.9
8410.6	50°	7620.2	6096.1	2060.4	1331.5	1434.2	1479.1	1268.8	1086.9	984.1	1044.4
9145.4	52.5°	8115.2	6252.1	2022.6	1291.3	1418.9	1466.1	1231.0	1063.3	922.7	926.2
9885.0	55°	8609.0	6353.7	1981.2	1238.1	1384.6	1437.8	1227.5	1037.3	876.6	860.1
10667.1	57.5°	9135.9	6411.6	1930.4	1179.1	1325.6	1365.7	1224.0	1017.2	862.4	835.3
11466.9	60°	9672.3	6496.6	1864.3	1107.0	1246.4	1279.5	1215.7	1010.1	854.2	808.1
12220.6	62.5°	10153.1	6526.2	1785.1	1038.5	1144.8	1194.4	1198.0	1004.2	831.7	752.6
12846.8	65°	10468.6	6398.6	1646.9	960.5	1034.9	1107.0	1163.7	984.1	791.6	712.4
13156.3	67.5°	10455.6	6034.7	1430.7	860.1	928.6	1010.1	1114.1	949.9	743.1	662.8
12922.4	70°	9968.8	5316.4	1156.6	743.1	811.6	906.2	1050.3	899.1	685.2	608.4
11490.5	72.5°	8550.0	4161.0	840.0	606.1	675.8	798.6	967.6	837.6	626.2	560.0
8492.1	75°	6108.0	2633.4	569.4	465.5	525.7	677.0	864.8	765.6	571.8	562.4
4253.1	77.5°	3120.1	1258.2	376.9	340.2	366.2	534.0	726.6	684.0	580.1	464.3
1209.8	80°	1014.8	464.3	237.5	231.6	243.4	355.6	562.4	561.2	439.5	315.4
293.0	82.5°	323.7	199.7	154.8	148.9	143.0	223.3	392.2	444.2	296.5	199.7
105.1	85°	128.8	119.3	91.0	83.9	60.3	105.1	205.6	295.4	220.9	144.1
27.2	87.5°	47.3	47.3	24.8	17.7	13.0	35.4	55.5	88.6	126.4	74.4
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>
3218.2
3467.5
3586.8
3563.2
3383.6
3091.8
2797.6
2577.9
2449.1
2398.3
2368.8
2339.2
2243.5
2025.0
1759.1
1512.2
1316.1
1182.6
1179.1
1168.4
1089.3
951.0
871.9
838.8
811.6
752.6
712.4
666.3
615.5
556.5
530.5
413.5
278.8
198.5
147.7
73.2
0.0

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