

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: P956064

Luminaire Tested: **GALN-SB8D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956064
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-SB8D-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71413 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

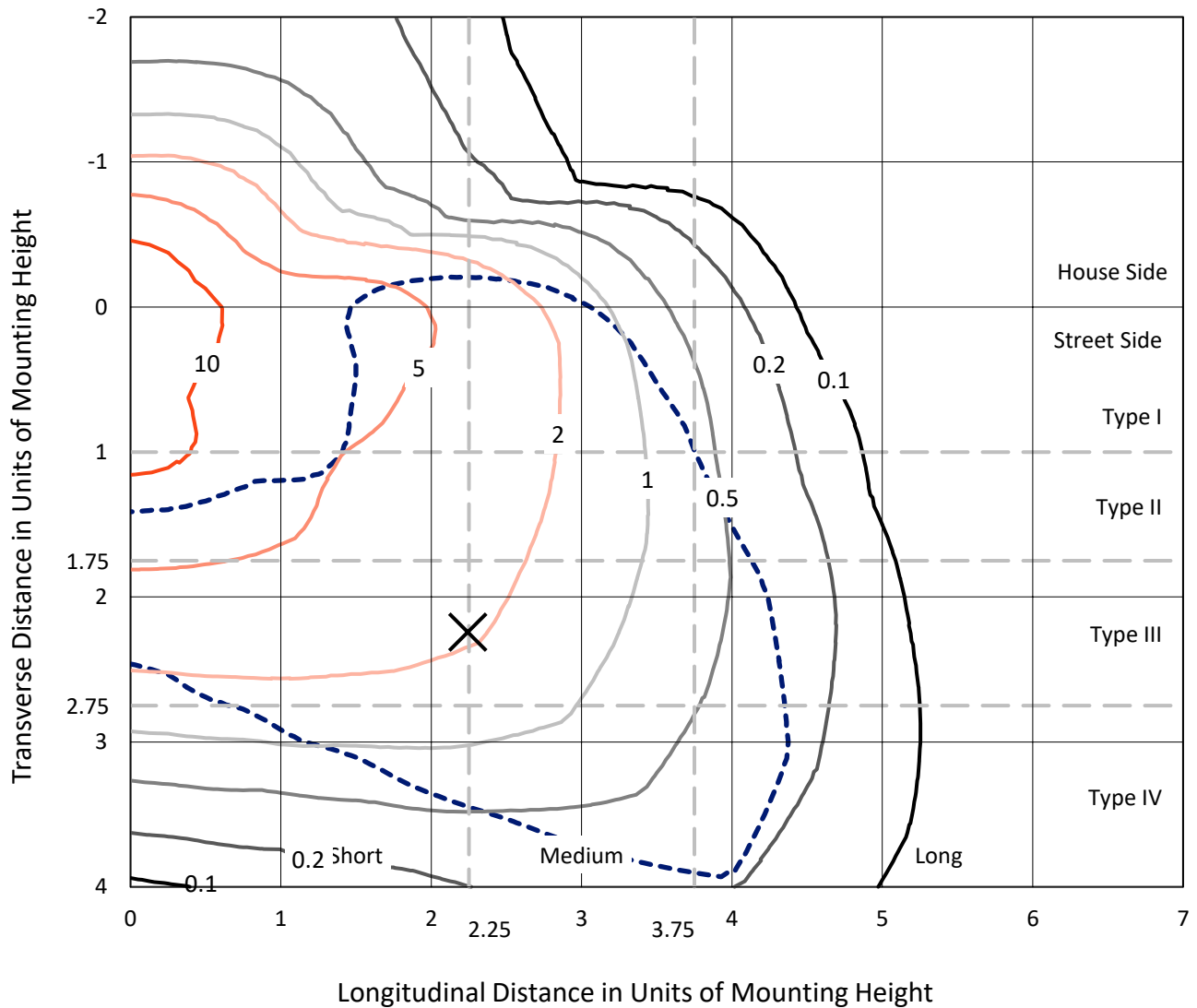
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

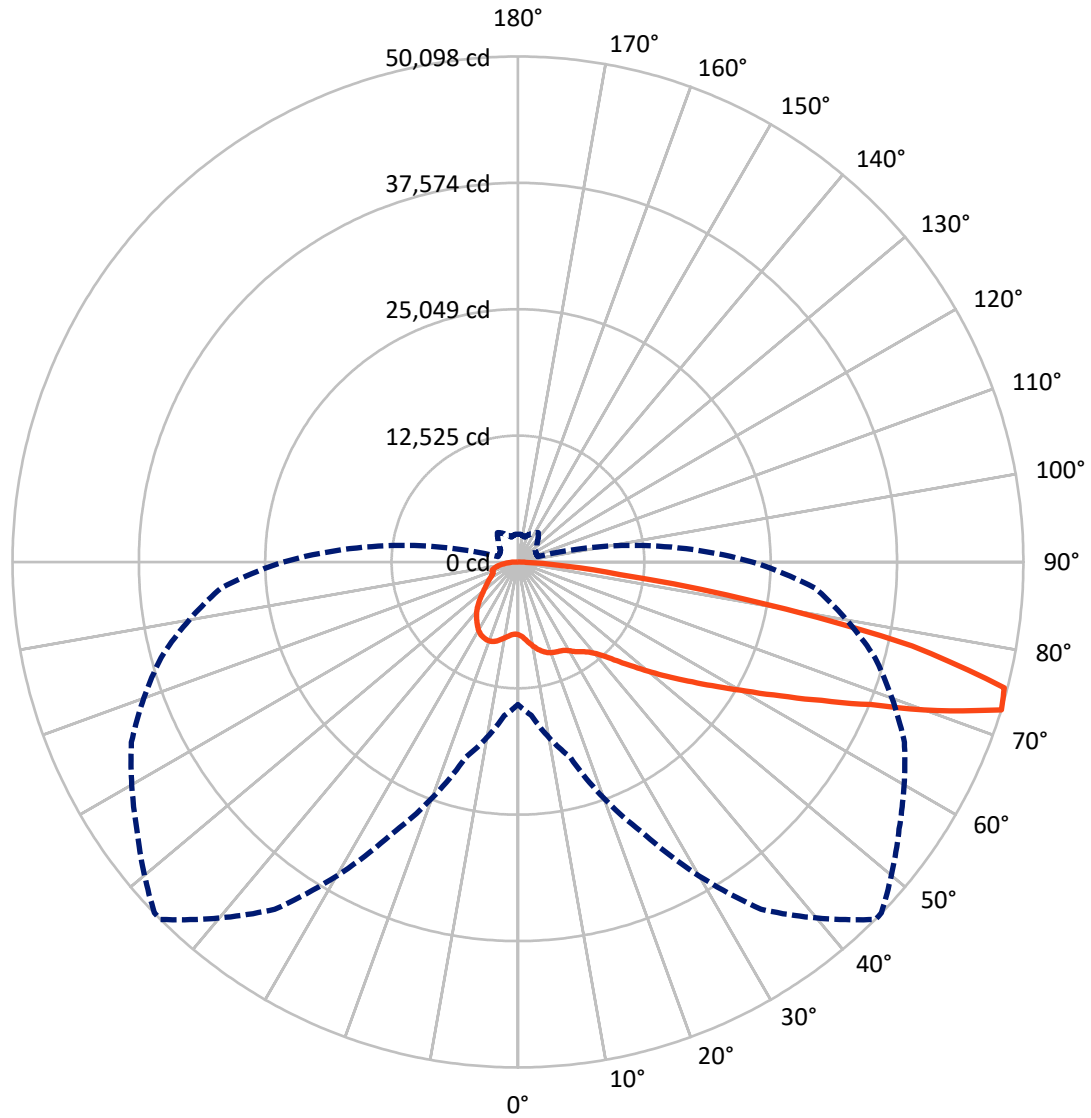
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	16144.0	0.0	16144.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	55269.0	0.0	55269.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	71413.0	0.0	71413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.2	1.0
10°-20°	2444.7	3.4
20°-30°	4252.7	6.0
30°-40°	6096.5	8.5
40°-50°	8584.3	12.0
50°-60°	13148.6	18.4
60°-70°	19047.7	26.7
70°-80°	15210.7	21.3
80°-90°	1894.4	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°	71413.0	100.0
0°-180°	71413.0	100.0

Coefficient of Utilization



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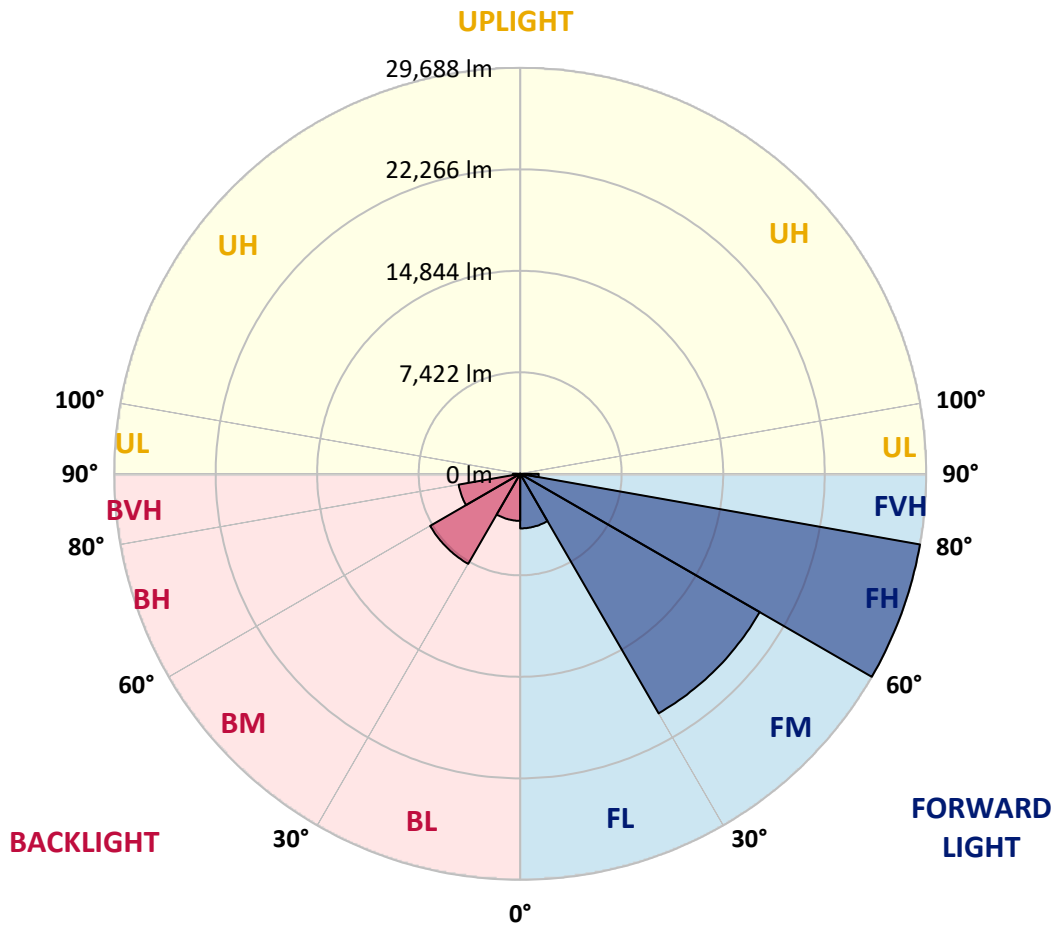
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3993.5	5.6			
FM (30°-60°)	20227.9	28.3			
FH (60°-80°)	29688.5	41.6			G5
FVH (80°-90°)	1359.1	1.9			G5
BL (0°-30°)	3437.2	4.8	B4/5000		
BM (30°-60°)	7601.5	10.6	B4/8500		
BH (60°-80°)	4570.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	535.3	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2
2.5°	7486.3	7535.2	7490.1	7448.7	7429.9	7381.0	7377.2	7347.1	7328.3	7275.7
5°	8009.2	8073.2	7998.0	7915.2	7840.0	7719.6	7704.5	7618.0	7520.2	7407.3
7.5°	8599.9	8656.3	8569.8	8445.6	8314.0	8114.6	8110.8	7952.8	7798.6	7606.7
10°	9115.3	9190.5	9073.9	8904.6	8739.1	8513.3	8487.0	8306.4	8110.8	7862.5
12.5°	9570.5	9623.1	9510.3	9303.4	9111.5	8885.8	8851.9	8652.5	8434.3	8152.2
15°	9931.6	9999.3	9848.9	9626.9	9423.7	9201.8	9171.7	8991.1	8772.9	8475.7
17.5°	10168.6	10225.0	10070.8	9822.5	9626.9	9442.6	9420.0	9269.5	9077.6	8776.7
20°	10258.9	10319.1	10157.3	9905.3	9724.7	9581.7	9570.5	9461.4	9329.7	9055.1
22.5°	10349.2	10405.6	10195.0	9931.6	9773.6	9683.3	9679.6	9608.1	9555.4	9329.7
25°	10714.1	10729.2	10447.0	10067.0	9841.3	9762.3	9758.6	9754.8	9777.4	9600.6
27.5°	11030.1	11026.3	10785.6	10428.2	10078.3	9912.8	9909.0	9946.7	10018.1	9871.4
30°	11492.8	11451.5	11165.5	10793.1	10473.3	10217.5	10195.0	10161.1	10217.5	10100.9
32.5°	12474.7	12343.0	11880.3	11218.2	10800.6	10605.0	10574.9	10364.2	10386.8	10315.3
35°	13881.7	13708.6	13091.7	12023.3	11206.9	10928.5	10913.5	10646.4	10601.2	10537.3
37.5°	15555.8	15341.3	14622.8	13189.5	11906.7	11304.7	11282.2	11041.4	10857.1	10789.3
40°	17237.4	16966.5	16372.1	14611.5	12937.4	11933.0	11861.5	11496.6	11285.9	11173.1
42.5°	18870.1	18644.3	18136.5	16206.6	14209.0	12850.9	12692.9	12068.4	11910.4	11805.1
45°	20314.7	20111.5	19739.1	17910.8	15698.7	14099.9	13945.6	12926.1	12877.2	12877.2
47.5°	21488.4	21443.3	21048.2	19648.8	17455.6	15521.9	15254.8	14118.7	14250.4	14453.5
50°	22790.0	22665.9	22244.6	21360.5	19520.9	17150.8	16932.6	15582.1	16074.9	16631.7
52.5°	23986.4	24054.1	23583.8	23143.7	21853.3	18967.9	18584.2	17308.8	18373.5	19295.2
55°	25216.5	25220.3	25088.6	25028.4	24298.6	20976.8	20555.4	19385.5	21078.3	22222.0
57.5°	26371.4	26379.0	26574.6	27105.0	27135.1	23294.1	22816.4	21936.1	24084.2	25250.4
60°	27402.2	27454.9	27989.1	29230.5	29629.3	25950.1	25498.7	24949.4	27191.6	28365.3
62.5°	27748.3	27940.2	29129.0	30893.3	32093.4	29208.0	28764.1	28436.8	30456.9	31547.9
65°	27161.5	27601.6	29900.2	32266.5	34629.0	33079.0	32638.9	32281.5	33850.2	34877.3
67.5°	25720.6	26288.7	29855.0	33707.3	37706.3	37736.4	37326.3	36487.4	37488.1	37883.1
70°	21924.8	22775.0	27225.4	34245.3	41238.8	44105.4	43710.4	41551.0	41118.4	39207.3
72.5°	14126.2	15269.9	20047.6	29817.4	42025.0	50098.2	50075.6	46121.8	42265.8	36634.1
75°	5153.9	5853.6	9314.6	18715.8	35276.0	49793.5	49940.2	45339.3	38582.8	28297.6
77.5°	1877.2	2054.0	3039.7	7192.9	21695.3	39952.2	40256.9	36246.6	27462.4	14201.5
80°	985.6	1083.4	1557.5	2791.4	9295.8	23726.8	24204.5	21541.1	12907.3	4277.4
82.5°	545.5	590.6	872.8	1516.1	4187.1	10146.0	10432.0	8509.6	4540.7	1813.3
85°	293.4	312.2	410.1	827.6	2046.5	3517.4	3596.4	2543.1	1809.5	1064.6
87.5°	86.5	105.3	135.4	263.3	801.3	790.0	808.8	504.1	714.8	538.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7204.2	0°	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2	7204.2
7260.6	2.5°	7238.0	7226.8	7185.4	7166.6	7144.0	7140.2	7159.0	7162.8	7166.6	7170.3
7343.4	5°	7305.8	7268.1	7230.5	7207.9	7215.5	7219.2	7256.8	7283.2	7302.0	7317.0
7497.6	7.5°	7437.4	7407.3	7343.4	7339.6	7350.9	7384.8	7433.7	7493.9	7527.7	7554.0
7697.0	10°	7633.0	7576.6	7501.4	7512.7	7535.2	7584.1	7685.7	7734.6	7791.0	7840.0
7941.5	12.5°	7832.4	7783.5	7697.0	7704.5	7742.1	7828.7	7926.5	7986.7	8024.3	8061.9
8204.9	15°	8092.0	8005.5	7911.4	7911.4	7979.1	8073.2	8118.3	8167.2	8189.8	8231.2
8487.0	17.5°	8359.1	8246.2	8122.1	8114.6	8197.3	8242.5	8268.8	8276.3	8283.9	8329.0
8761.6	20°	8626.2	8502.1	8325.3	8310.2	8329.0	8321.5	8317.7	8310.2	8321.5	8377.9
9043.8	22.5°	8889.5	8746.6	8502.1	8434.3	8381.7	8310.2	8306.4	8302.7	8310.2	8366.6
9348.5	25°	9198.0	9025.0	8697.7	8494.5	8317.7	8219.9	8231.2	8235.0	8242.5	8287.6
9664.5	27.5°	9532.8	9341.0	8878.3	8475.7	8156.0	8088.2	8069.4	8080.7	8107.1	8178.5
9980.5	30°	9867.7	9641.9	9043.8	8400.5	7952.8	7858.8	7798.6	7824.9	7907.7	7979.1
10255.1	32.5°	10172.4	9946.7	9175.5	8235.0	7693.2	7546.5	7467.5	7501.4	7584.1	7610.5
10559.9	35°	10529.8	10274.0	9231.9	7971.6	7411.1	7185.4	7080.0	7031.1	7072.5	7046.2
10917.3	37.5°	10928.5	10661.4	9224.4	7625.5	7080.0	6820.5	6673.7	6489.4	6402.9	6312.6
11443.9	40°	11519.2	11135.4	9134.1	7207.9	6670.0	6433.0	6169.6	5857.4	5661.8	5485.0
12294.1	42.5°	12324.2	11793.8	8968.5	6749.0	6207.3	5985.3	5627.9	5263.0	4954.5	4661.1
13584.5	45°	13524.3	12655.3	8761.6	6259.9	5706.9	5488.7	5101.2	4691.2	4341.3	3965.1
15416.6	47.5°	15254.8	13814.0	8566.0	5703.2	5180.2	4980.9	4631.0	4251.0	3837.2	3472.3
18065.0	50°	17632.4	15476.8	8385.4	5161.4	4661.1	4510.6	4232.2	3844.7	3427.2	3133.7
21168.6	52.5°	20657.0	17737.7	8310.2	4638.5	4175.8	4119.4	3897.4	3536.3	3141.2	2893.0
24787.7	55°	24129.3	20442.6	8310.2	4138.2	3750.7	3769.5	3615.3	3280.4	2938.1	2716.1
28519.5	57.5°	27673.1	23181.3	8159.7	3675.4	3389.5	3468.5	3370.7	3077.3	2768.8	2539.3
32443.3	60°	30938.5	25476.1	7550.3	3254.1	3069.8	3193.9	3130.0	2877.9	2501.7	2309.9
35723.7	62.5°	33447.7	26770.2	6376.5	2919.3	2806.4	2949.4	2915.5	2614.6	2452.8	2373.8
38417.3	65°	34704.2	26559.5	4875.5	2622.1	2584.5	2806.4	2735.0	2723.7	2595.8	2505.5
39293.8	67.5°	33933.0	24746.3	3536.3	2403.9	2456.6	2674.8	2949.4	2994.5	2757.5	2580.7
36826.0	70°	30551.0	21465.8	2633.4	2197.0	2294.8	2678.5	3363.2	3133.7	2704.9	2498.0
29535.3	72.5°	23241.5	16007.2	2042.8	1978.8	2084.1	2697.3	3547.5	3069.8	2554.4	2761.3
18399.8	75°	13291.1	8788.0	1640.2	1711.7	1820.8	2520.5	3453.5	2904.2	2437.8	2535.6
7290.7	77.5°	5067.4	3378.3	1354.3	1448.4	1463.4	2200.8	3303.0	2893.0	2321.1	2264.7
2185.7	80°	1756.8	1320.5	1121.1	1151.2	1132.4	1956.2	3167.6	2516.8	1899.8	1700.4
902.9	82.5°	718.5	658.3	887.8	850.2	805.1	1519.8	2558.1	2057.8	1553.7	1373.1
436.4	85°	312.2	417.6	586.9	515.4	466.5	1053.4	2050.3	1741.8	1312.9	1132.4
143.0	87.5°	64.0	158.0	248.3	233.2	240.8	703.5	1455.9	1237.7	929.2	696.0
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°
7204.2
7185.4
7324.6
7561.6
7828.7
8077.0
8246.2
8344.1
8400.5
8404.3
8347.8
8250.0
8058.2
7704.5
7128.9
6369.0
5496.2
4634.8
3920.0
3430.9
3114.9
2874.1
2693.6
2501.7
2279.8
2347.5
2475.4
2550.6
2464.1
2738.7
2535.6
2065.3
1644.0
1358.1
1128.6
545.5
0.0

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