

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: P957049

Luminaire Tested: **GALN-SB9C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957049
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-SB9C-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 70028 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

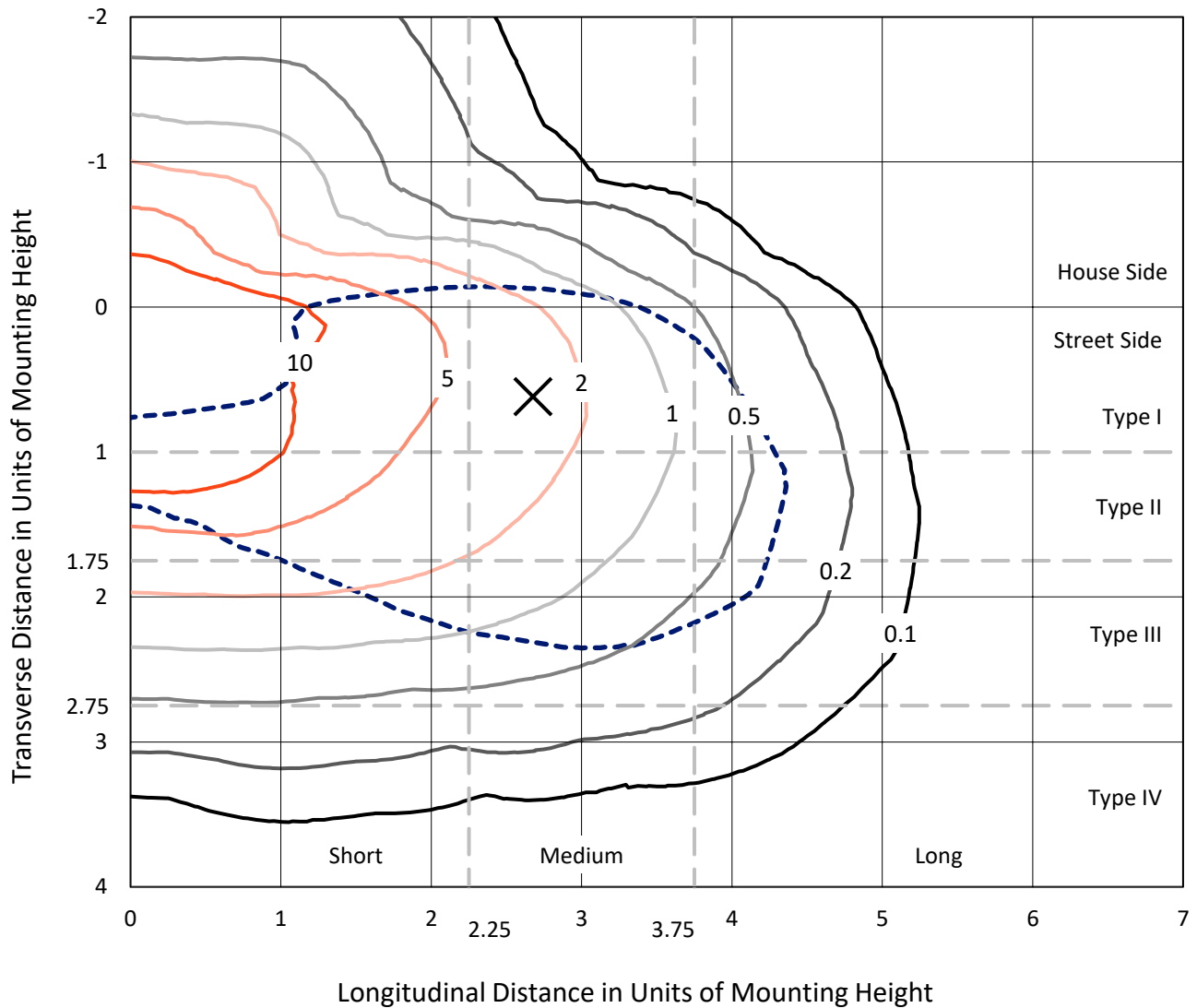
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

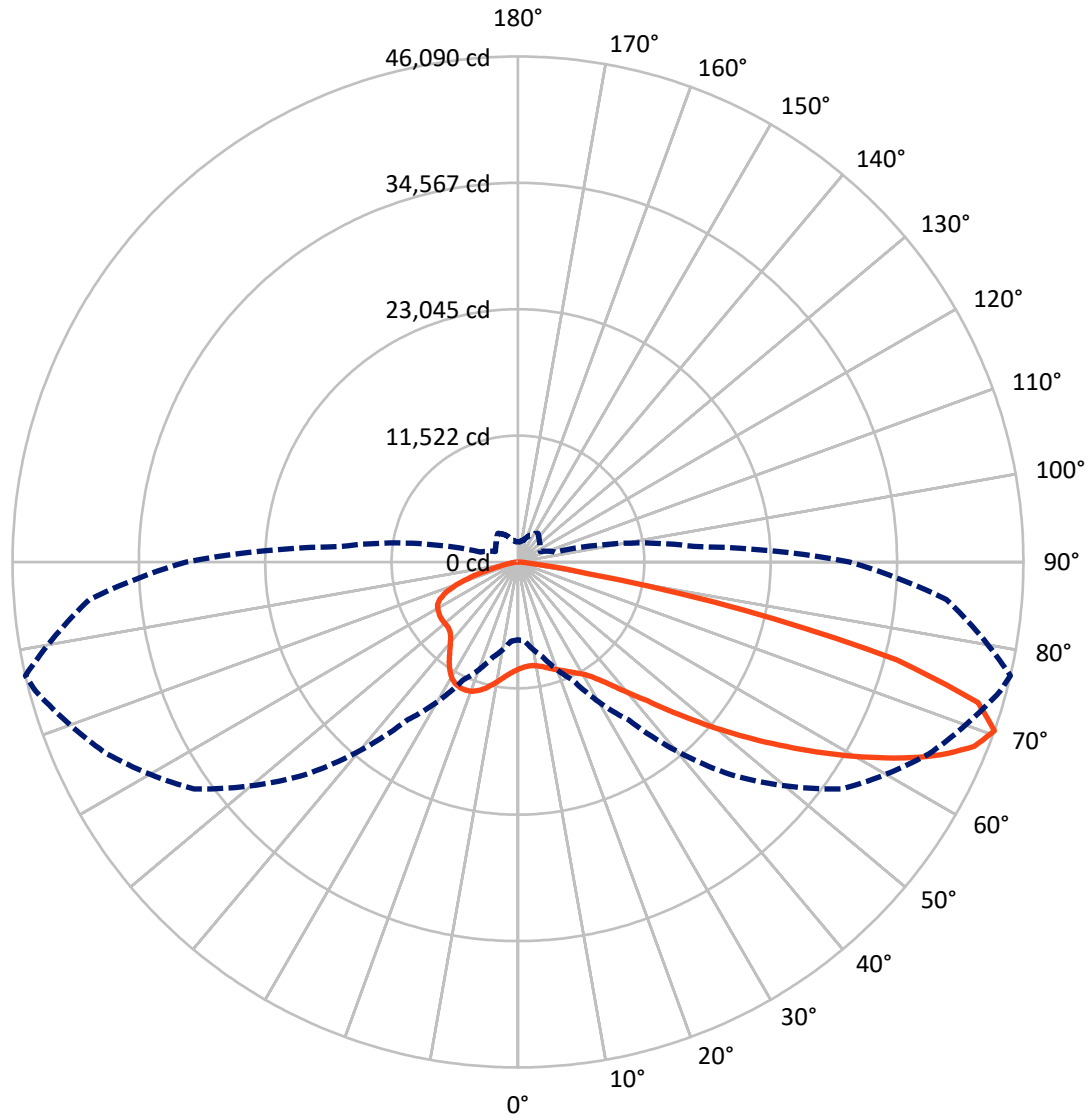
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	15335.0	0.0	15335.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	54693.0	0.0	54693.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	70028.0	0.0	70028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.7	1.3
10°-20°	2689.1	3.8
20°-30°	4598.8	6.6
30°-40°	7395.3	10.6
40°-50°	11546.0	16.5
50°-60°	15422.7	22.0
60°-70°	16438.2	23.5
70°-80°	10119.3	14.5
80°-90°	886.7	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°	70028.0	100.0
0°-180°	70028.0	100.0

Coefficient of Utilization



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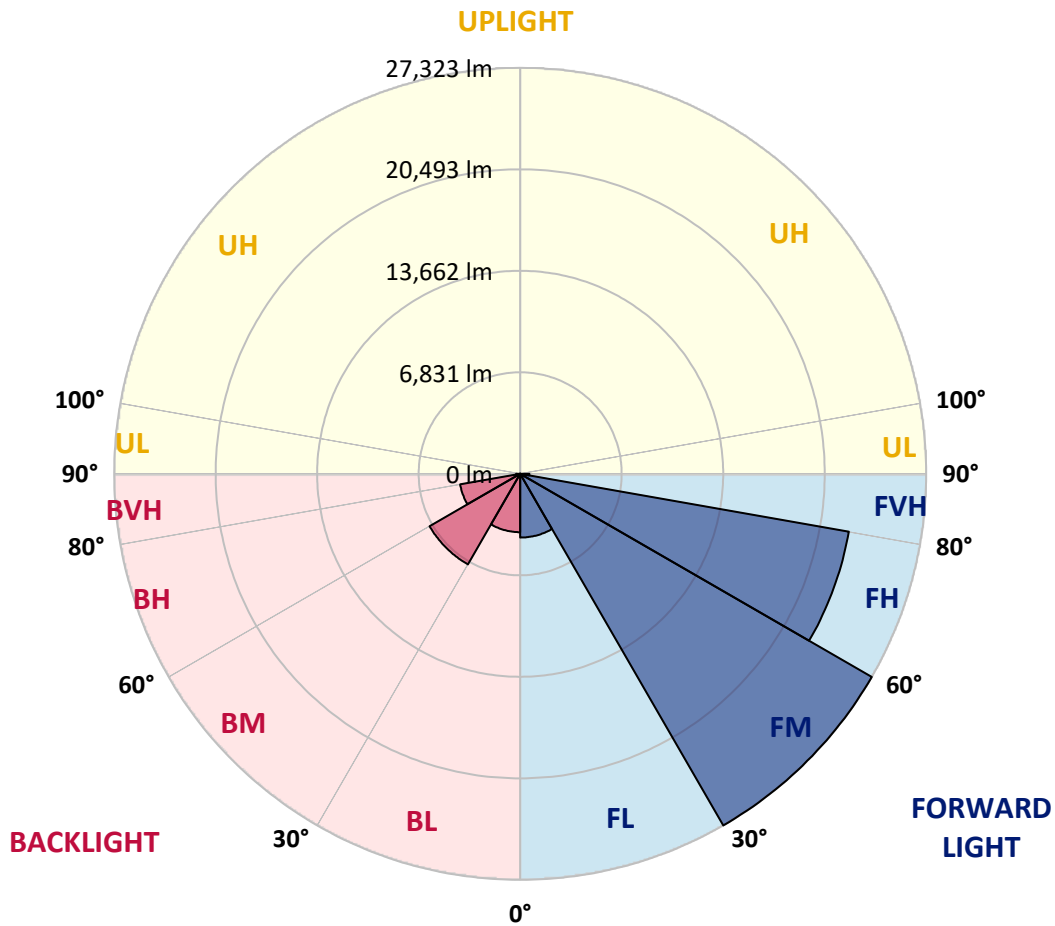
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4290.3	6.1			
FM (30°-60°)	27323.4	39.0			
FH (60°-80°)	22459.1	32.1			G5
FVH (80°-90°)	620.1	0.9			G4/750
BL (0°-30°)	3929.3	5.6	B4/5000		
BM (30°-60°)	7040.7	10.1	B4/8500		
BH (60°-80°)	4098.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	266.7	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5
2.5°	9005.6	9002.0	9048.7	9063.0	9149.1	9210.1	9324.8	9446.8	9604.6	9622.5
5°	8485.6	8485.6	8539.4	8596.8	8707.9	8829.9	9005.6	9217.2	9489.8	9532.8
7.5°	8044.5	8073.1	8119.8	8230.9	8360.1	8535.8	8804.8	9106.0	9464.7	9532.8
10°	7689.4	7721.7	7779.1	7868.7	8062.4	8306.3	8657.7	9045.1	9525.7	9633.3
12.5°	7578.2	7610.5	7642.8	7710.9	7890.2	8177.2	8596.8	9073.8	9672.7	9780.3
15°	7836.4	7875.9	7850.8	7832.9	7926.1	8187.9	8625.5	9177.8	9855.6	10009.8
17.5°	8431.8	8446.1	8388.8	8220.2	8205.8	8345.7	8761.7	9321.2	10085.2	10253.7
20°	9393.0	9367.9	9249.5	8916.0	8725.9	8697.2	8994.9	9536.4	10321.9	10501.2
22.5°	10698.4	10669.7	10433.0	9905.8	9482.6	9202.9	9332.0	9816.2	10587.3	10788.1
25°	12326.7	12287.2	11939.4	11222.1	10565.7	9873.6	9791.1	10185.6	10913.6	11100.1
27.5°	14227.5	14195.2	13818.7	12871.8	11925.0	10791.7	10361.3	10619.5	11254.3	11465.9
30°	16271.8	16365.1	15698.0	14679.4	13481.5	11989.6	11128.8	11153.9	11695.5	11885.6
32.5°	18674.8	18836.1	18032.8	16741.6	15106.2	13291.5	12097.2	11899.9	12337.5	12495.3
35°	21056.2	21239.1	20572.0	19144.6	17261.7	14826.5	13108.5	12757.1	13191.0	13363.2
37.5°	23114.8	23358.7	23014.4	21773.5	19567.8	16677.1	14428.4	13764.9	14241.9	14457.1
40°	24739.5	25112.5	25087.4	24312.7	22286.3	18922.2	16103.3	15009.4	15547.3	15780.5
42.5°	26059.3	26382.1	26661.8	26622.4	25123.2	21472.2	18072.2	16626.9	17035.7	17304.7
45°	26970.3	27314.6	27917.1	28566.2	27852.5	24201.5	20328.1	18545.6	18918.6	19323.9
47.5°	27784.4	28175.3	28957.2	29986.5	30169.4	26941.6	22799.2	20780.0	21120.7	21540.3
50°	27856.1	28193.2	29405.5	30865.2	31815.6	29574.0	25453.2	23287.0	23606.1	24054.5
52.5°	26123.8	26654.6	28770.7	30840.1	32572.3	31776.1	28089.2	25894.3	26253.0	26790.9
55°	20277.9	21056.2	26909.3	29878.9	32303.3	33200.0	30596.2	28666.7	29125.7	29688.8
57.5°	17466.1	17806.8	21361.0	28128.7	31076.8	33569.4	32712.2	31467.7	32206.5	32823.4
60°	15698.0	15981.3	18083.0	25406.6	29462.9	32984.8	34347.6	34078.6	35355.4	36090.6
62.5°	13804.3	14073.3	15984.9	21214.0	27397.0	32012.8	35380.5	36488.7	38583.2	39386.6
65°	11925.0	12154.5	13987.2	17824.8	24771.7	31040.9	35914.9	38572.5	41570.8	42402.8
67.5°	9830.5	10020.6	11752.9	15038.1	21579.8	29710.3	36180.3	40211.5	44171.0	44884.7
70°	7094.0	7241.1	9030.7	11892.7	17573.7	27422.2	36072.7	41373.5	45519.5	46089.7
72.5°	3353.3	3486.0	5587.7	7721.7	12412.8	22967.8	33895.7	40451.8	44149.4	43866.1
75°	1789.6	1904.4	3209.9	4235.6	6556.1	15744.6	27737.8	34846.1	37073.3	35696.1
77.5°	1212.2	1301.9	1986.9	2542.8	2994.7	7474.2	17828.3	24126.2	23211.6	20937.8
80°	961.2	1054.4	1628.3	1721.5	1448.9	2700.6	7366.6	11168.3	8022.9	6416.2
82.5°	738.8	842.8	1370.0	1248.1	789.0	1108.2	2144.7	3532.7	2055.0	1563.7
85°	451.9	563.1	1075.9	796.2	444.7	505.7	728.1	982.7	627.6	523.6
87.5°	229.5	322.8	545.1	290.5	200.8	118.4	193.7	193.7	165.0	143.5
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°
9769.5	0°	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5	9769.5
9719.3	2.5°	9805.4	9877.1	9999.1	10113.8	10203.5	10289.6	10375.7	10422.3	10436.6	10494.0
9773.1	5°	9920.2	10052.9	10289.6	10511.9	10651.8	10737.9	10798.9	10834.7	10841.9	10859.8
9920.2	7.5°	10131.8	10343.4	10673.3	10895.7	10999.7	10992.5	10967.4	10877.8	10841.9	10809.6
10135.4	10°	10429.5	10709.2	11114.5	11268.7	11204.1	11032.0	10809.6	10547.8	10425.9	10307.5
10429.5	12.5°	10798.9	11153.9	11552.0	11544.8	11225.7	10784.5	10268.1	9866.4	9611.7	9428.8
10791.7	15°	11247.2	11656.0	11960.9	11717.0	11017.6	10225.0	9468.3	8944.7	8715.1	8514.3
11157.5	17.5°	11709.8	12147.4	12287.2	11663.2	10494.0	9396.6	8539.4	8126.9	7901.0	7793.4
11552.0	20°	12161.7	12595.7	12480.9	11354.8	9697.8	8456.9	7693.0	7467.0	7420.4	7445.5
11935.8	22.5°	12638.7	13026.1	12520.4	10759.4	8682.8	7495.7	7076.1	7083.3	7187.3	7262.6
12337.5	25°	13126.5	13388.3	12416.4	9898.7	7592.6	6789.2	6685.2	6799.9	7004.4	7151.4
12789.4	27.5°	13596.3	13711.1	12190.4	8833.5	6656.5	6283.5	6301.4	6538.1	6846.6	7051.0
13338.1	30°	14127.1	13998.0	11756.4	7635.6	6007.3	5849.5	6000.2	6276.3	6584.8	6767.7
14030.3	32.5°	14726.0	14245.5	11067.8	6527.4	5548.3	5501.6	5749.1	5928.4	6064.7	6118.5
14948.4	35°	15472.0	14593.3	10185.6	5749.1	5135.8	5247.0	5483.7	5394.1	5340.3	5311.6
16182.2	37.5°	16440.4	15063.2	9152.7	5243.4	4802.3	5064.1	5160.9	4881.2	4669.6	4565.6
17677.7	40°	17606.0	15751.8	8159.2	4852.5	4590.7	4906.3	4737.7	4400.6	4131.6	3984.6
19359.8	42.5°	18900.7	16472.7	7323.6	4558.4	4472.3	4777.2	4425.7	4024.0	3590.1	3543.4
21364.6	45°	20260.0	17215.1	6753.3	4332.5	4414.9	4666.0	4246.4	3597.2	3288.8	3478.9
23376.6	47.5°	21619.2	17896.5	6409.0	4163.9	4386.3	4540.5	4088.6	3360.5	3141.7	3417.9
25532.1	50°	23132.7	18506.2	6254.8	4042.0	4354.0	4490.3	3851.9	3299.6	2987.5	3170.4
27762.9	52.5°	24635.5	18979.6	6140.0	3920.0	4307.4	4450.8	3737.1	3227.8	2801.0	2811.8
30008.0	55°	26134.6	19288.0	6014.5	3758.6	4203.3	4364.7	3726.3	3148.9	2661.2	2611.0
32382.2	57.5°	27734.2	19463.8	5860.3	3579.3	4024.0	4146.0	3715.6	3088.0	2618.1	2535.6
34810.3	60°	29362.4	19722.0	5659.4	3360.5	3783.7	3884.1	3690.5	3066.4	2593.0	2453.1
37098.4	62.5°	30822.1	19811.7	5419.2	3152.5	3475.3	3625.9	3636.7	3048.5	2524.9	2284.6
38999.3	65°	31779.7	19424.3	4999.5	2915.8	3141.7	3360.5	3532.7	2987.5	2402.9	2162.6
39938.9	67.5°	31740.3	18319.7	4343.2	2611.0	2819.0	3066.4	3382.0	2883.5	2255.9	2012.0
39228.8	70°	30262.6	16139.1	3511.2	2255.9	2463.9	2750.8	3188.4	2729.3	2080.2	1847.0
34882.0	72.5°	25955.3	12631.5	2550.0	1839.9	2051.5	2424.5	2937.3	2542.8	1900.8	1700.0
25779.5	75°	18542.1	7994.2	1728.7	1413.1	1596.0	2055.0	2625.3	2324.0	1735.9	1707.2
12911.3	77.5°	9471.9	3819.6	1144.1	1032.9	1111.8	1621.1	2205.7	2076.6	1761.0	1409.5
3672.5	80°	3080.8	1409.5	720.9	702.9	738.8	1079.5	1707.2	1703.6	1334.2	957.6
889.4	82.5°	982.7	606.1	469.8	451.9	434.0	677.8	1190.7	1348.5	900.2	606.1
319.2	85°	390.9	362.2	276.2	254.6	182.9	319.2	624.0	896.6	670.7	437.5
82.5	87.5°	143.5	143.5	75.3	53.8	39.5	107.6	168.6	269.0	383.8	225.9
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>
9769.5
10526.3
10888.5
10816.8
10271.7
9385.8
8492.8
7825.7
7434.8
7280.5
7190.9
7101.2
6810.7
6147.2
5340.3
4590.7
3995.3
3590.1
3579.3
3547.0
3306.7
2887.1
2646.8
2546.4
2463.9
2284.6
2162.6
2022.8
1868.6
1689.2
1610.3
1255.3
846.4
602.5
448.3
222.4
0.0

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