

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: P957570

Luminaire Tested: **GALN-SB9D-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 90302 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

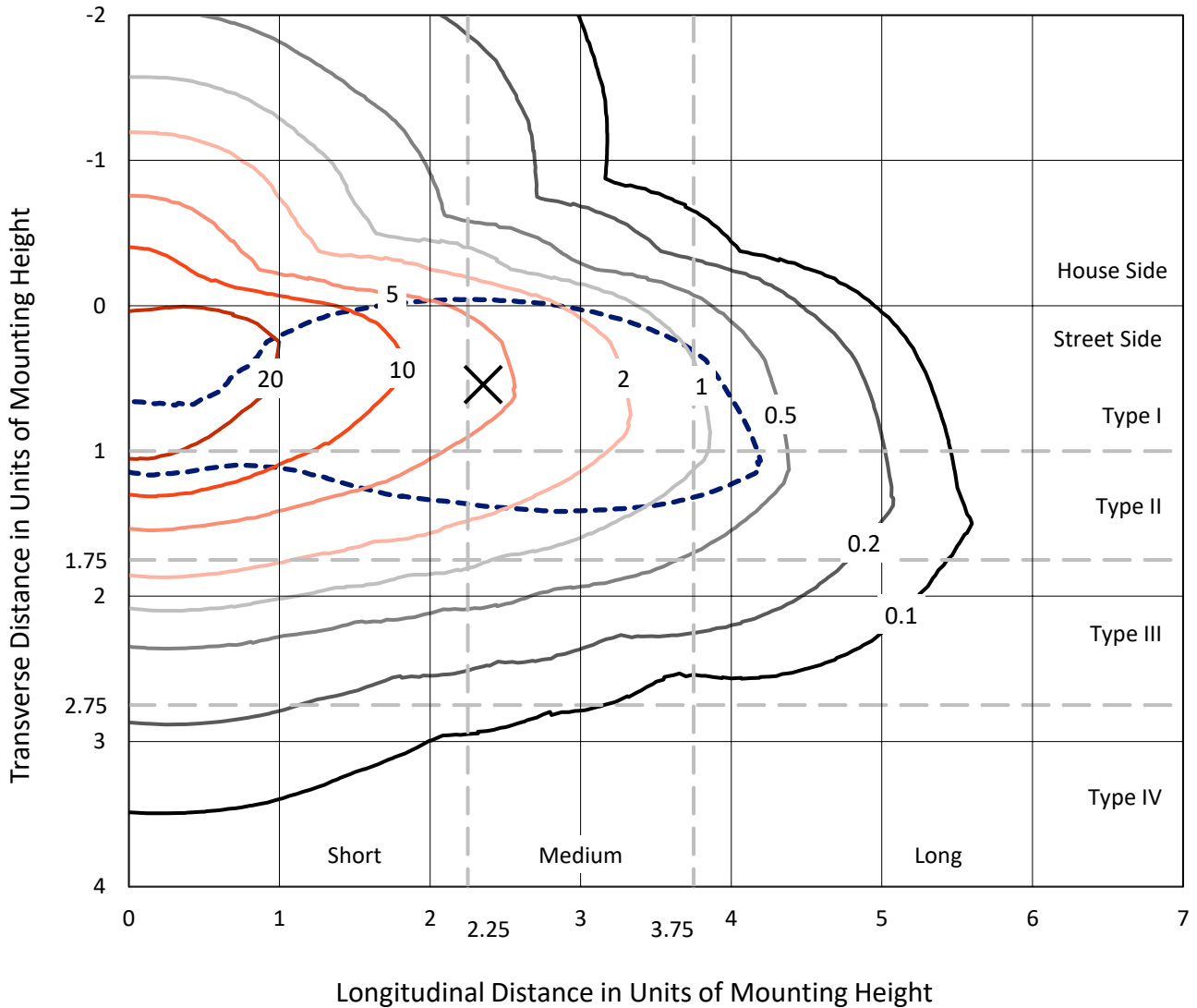
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

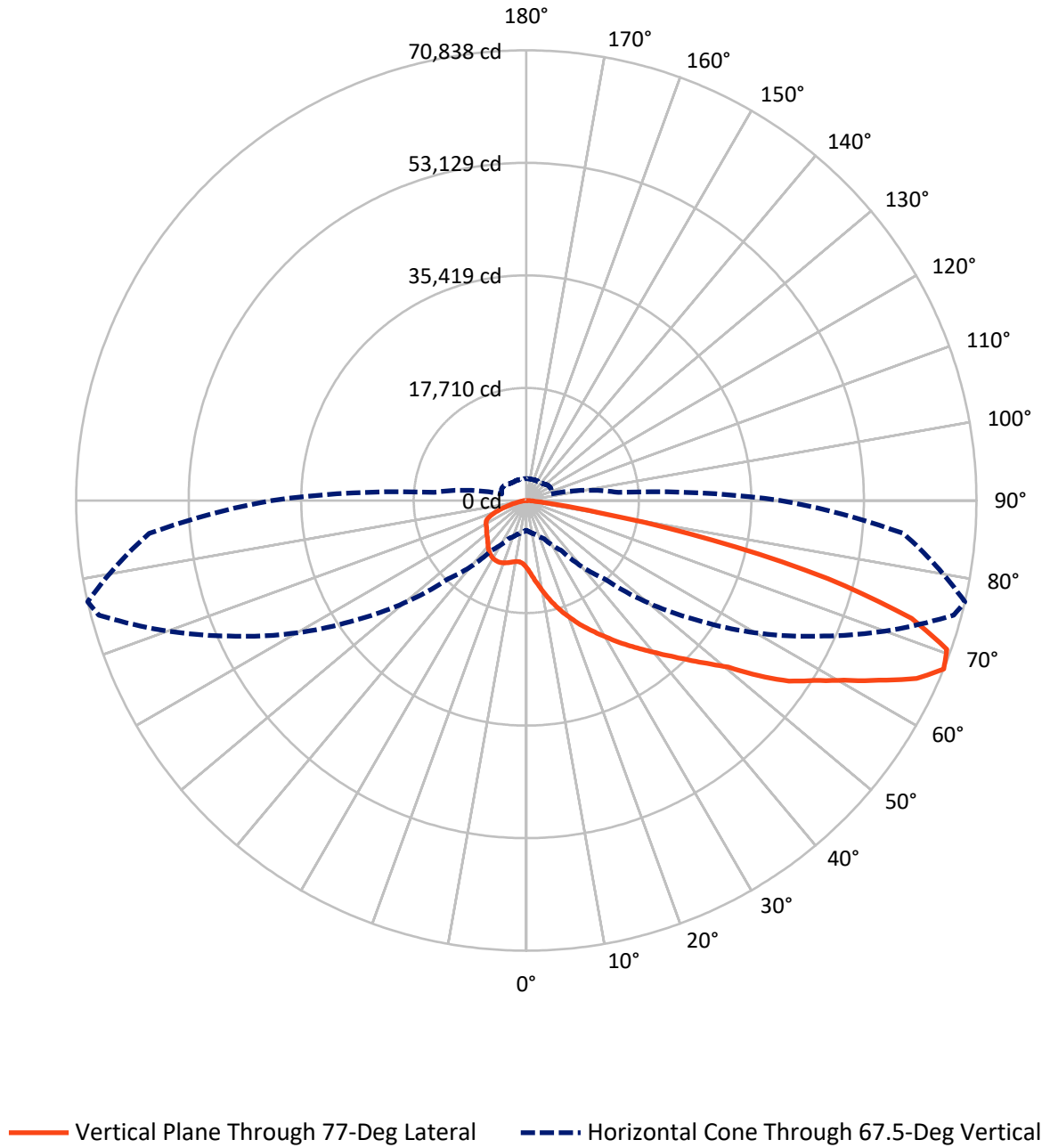
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17081.5	0.0	17081.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	73220.5	0.0	73220.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	90302.0	0.0	90302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.7	1.3
10°-20°	4080.0	4.5
20°-30°	7703.4	8.5
30°-40°	12410.1	13.7
40°-50°	16974.7	18.8
50°-60°	19147.6	21.2
60°-70°	17871.9	19.8
70°-80°	9796.8	10.8
80°-90°	1181.7	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°	90302.0	100.0
0°-180°	90302.0	100.0

Coefficient of Utilization



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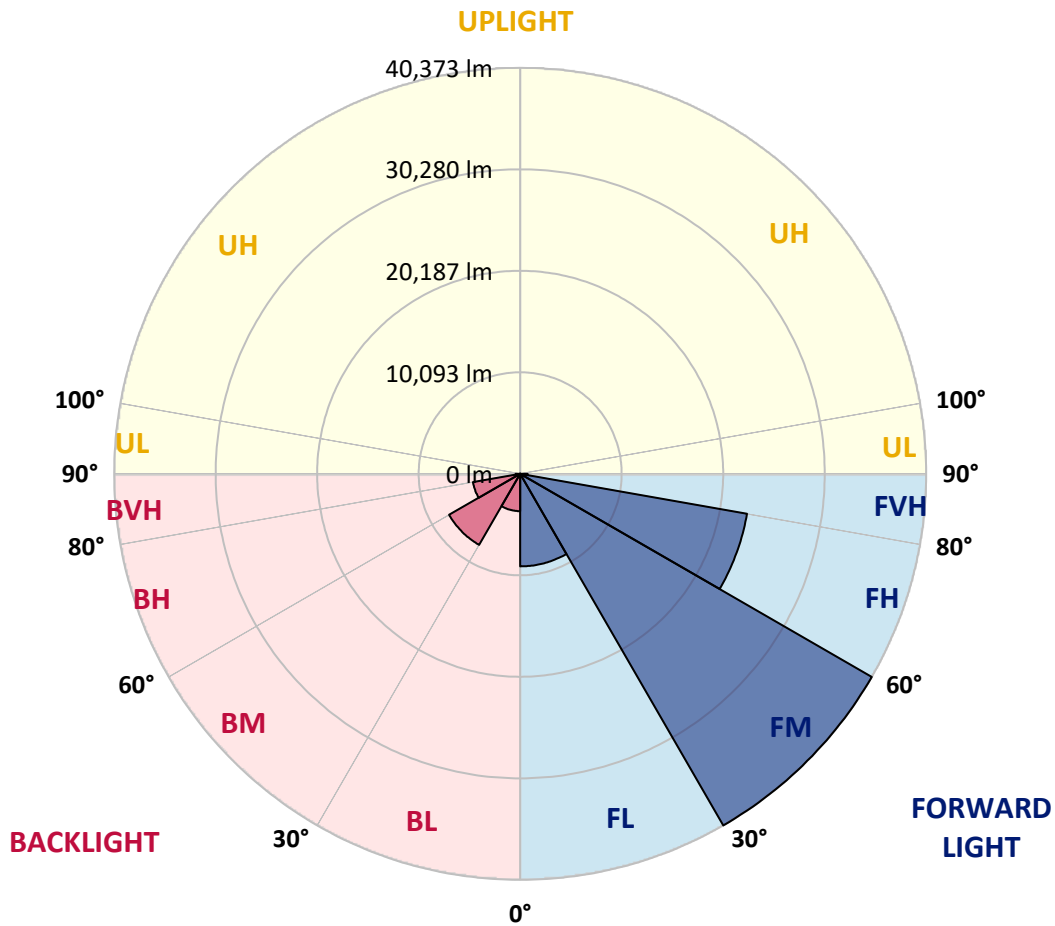
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9205.2	10.2			
FM (30°-60°)	40373.0	44.7			
FH (60°-80°)	22903.3	25.4			G5
FVH (80°-90°)	739.0	0.8			G4/750
BL (0°-30°)	3713.9	4.1	B4/5000		
BM (30°-60°)	8159.4	9.0	B4/8500		
BH (60°-80°)	4765.5	5.3	B4/5000		G4/5000
BVH (80°-90°)	442.7	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2
2.5°	13266.2	13359.4	13242.9	13242.9	12851.3	12646.2	12254.7	11956.3	11420.3	11327.1
5°	15680.8	15797.3	15634.1	15564.2	15102.7	14678.6	14021.3	13373.4	12417.8	12319.9
7.5°	17550.0	17699.1	17554.6	17480.0	17069.8	16594.4	15825.3	14921.0	13573.8	13382.7
10°	19074.2	19097.5	19050.9	19078.9	18757.2	18365.7	17577.9	16524.5	14841.7	14580.7
12.5°	19936.6	20043.8	20137.0	20304.8	20248.9	20006.5	19298.0	18039.4	16184.2	15848.6
15°	20342.1	20528.5	20738.3	21125.2	21437.5	21498.1	20957.4	19666.2	17550.0	17144.4
17.5°	20486.6	20663.7	20994.7	21554.0	22225.3	22677.4	22435.0	21246.4	18901.7	18435.6
20°	21218.4	21269.7	21470.1	22001.5	22728.7	23479.2	23661.0	22766.0	20239.5	19712.8
22.5°	22784.6	22682.1	22738.0	22980.4	23502.5	24229.7	24644.5	24108.5	21614.6	21008.7
25°	25371.7	25073.4	24775.0	24495.4	24761.0	25171.2	25642.0	25450.9	23055.0	22285.9
27.5°	28639.3	28275.7	27618.5	26700.2	26378.5	26523.0	26732.8	26695.5	24388.1	23609.7
30°	31855.6	31431.4	30648.3	29319.8	28471.5	28089.2	27930.8	27823.5	25837.8	25008.1
32.5°	34424.0	34088.4	33319.3	31832.3	30601.7	29949.1	29422.4	29040.2	27352.8	26523.0
35°	36670.8	36358.5	35477.5	33855.3	32517.5	31823.0	31133.1	30317.4	28928.3	28089.2
37.5°	38721.8	38409.5	37202.2	35514.8	34167.6	33687.5	33072.2	31687.8	30508.5	29716.1
40°	40017.6	39947.7	38819.7	36908.5	35510.1	35272.4	35067.3	33277.3	32261.1	31524.7
42.5°	40348.6	40502.4	39607.4	38036.5	36703.4	36512.3	36992.4	35076.6	34228.2	33524.4
45°	39551.5	39994.3	39407.0	38339.5	37551.8	37449.2	38698.5	37043.7	36405.1	35761.8
47.5°	37533.1	38283.6	38041.2	37892.0	37780.2	38223.0	40199.4	39132.0	38870.9	38311.6
50°	33459.1	34880.8	35305.0	36246.6	37328.0	38824.3	41565.2	41411.4	41751.6	41187.6
52.5°	26415.8	28373.6	30834.8	33193.4	35938.9	38623.9	43066.1	44683.6	46119.3	45811.7
55°	21805.8	22686.8	24579.3	28905.0	33244.7	37780.2	43742.0	47326.6	50454.4	50179.3
57.5°	18263.1	19050.9	20216.2	23828.8	29170.7	35864.4	44161.6	48939.4	53423.6	53395.7
60°	14464.1	15298.5	16491.8	19050.9	24411.4	32554.8	44068.3	50776.0	57213.3	57446.4
62.5°	10175.7	11094.0	12417.8	14804.4	19549.7	28266.4	42166.5	52104.5	61674.2	62308.2
65°	6689.0	7295.0	8292.5	10352.8	14566.7	22752.0	38535.3	52276.9	66447.4	67519.5
67.5°	4689.3	4922.4	5509.7	6628.4	9602.4	17447.4	32750.6	50491.7	69631.1	70838.4
70°	3659.2	3775.7	4074.0	4521.5	6031.8	11732.6	25096.7	45849.0	68950.6	70209.1
72.5°	3160.4	3272.3	3384.1	3440.1	4046.0	7243.7	16999.9	38334.9	62541.2	63394.2
75°	2866.7	2894.7	2987.9	2969.3	3085.8	4698.6	9812.1	27930.8	49345.0	49051.3
77.5°	2409.9	2447.2	2601.0	2577.7	2740.9	3211.7	5094.8	18025.4	31990.8	29995.7
80°	2041.7	2060.3	2228.1	2200.2	2381.9	2326.0	2601.0	9187.5	13569.2	11494.9
82.5°	708.5	876.3	1701.4	1752.7	1817.9	1407.7	1501.0	3747.7	4143.9	3174.4
85°	344.9	368.2	867.0	1230.6	1225.9	708.5	731.8	1337.8	1305.2	1025.5
87.5°	55.9	69.9	102.5	480.1	382.2	186.5	251.7	261.0	270.4	233.1
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°
10595.2	0°	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2	10595.2
10972.8	2.5°	10711.8	10478.7	9989.3	9537.1	9182.8	8842.6	8651.5	8488.3	8395.1	8376.4
11485.5	5°	11000.8	10520.6	9630.3	8879.9	8390.4	8026.8	7835.7	7714.5	7653.9	7616.6
12175.4	7.5°	11415.6	10711.8	9443.9	8590.9	8078.1	7817.1	7719.2	7700.5	7695.9	7700.5
13009.8	10°	11989.0	11024.1	9425.2	8520.9	8092.1	7947.6	7942.9	7947.6	7966.2	7970.9
13918.8	12.5°	12608.9	11345.7	9499.8	8581.5	8269.2	8190.0	8176.0	8171.3	8185.3	8194.6
14837.1	15°	13284.8	11769.9	9625.7	8712.0	8465.0	8381.1	8367.1	8339.1	8334.5	8329.8
15801.9	17.5°	13979.4	12189.4	9765.5	8851.9	8590.9	8474.3	8423.0	8357.8	8306.5	8292.5
16799.5	20°	14683.2	12604.3	9863.4	8921.8	8600.2	8437.0	8334.5	8222.6	8134.0	8082.8
17806.3	22.5°	15433.7	13037.8	9924.0	8903.2	8516.3	8292.5	8106.1	7975.6	7840.4	7751.8
18822.5	25°	16165.5	13415.3	9919.3	8805.3	8353.1	8068.8	7831.1	7663.2	7476.8	7383.6
19871.3	27.5°	16869.4	13755.6	9802.8	8632.8	8120.1	7803.1	7518.7	7318.3	7136.5	7047.9
20929.4	30°	17596.6	14040.0	9621.0	8381.1	7845.0	7495.4	7183.1	7010.7	6847.5	6763.6
22048.1	32.5°	18319.1	14301.0	9364.6	8068.8	7528.1	7192.5	6884.8	6726.3	6628.4	6628.4
23250.8	35°	19083.5	14482.8	9024.4	7705.2	7192.5	6870.8	6628.4	6535.2	6525.9	6469.9
24523.3	37.5°	19889.9	14599.3	8609.5	7332.3	6861.5	6558.5	6483.9	6372.1	6278.8	6157.6
25921.7	40°	20738.3	14715.9	8110.7	6945.4	6511.9	6344.1	6311.5	6162.3	5896.6	5598.3
27506.6	42.5°	21768.5	14795.1	7593.3	6558.5	6143.6	6087.7	6134.3	5878.0	5453.8	5230.0
29417.7	45°	22961.8	14925.6	7117.9	6176.3	5766.1	5766.1	5961.9	5626.2	5276.6	5136.8
31599.2	47.5°	24509.3	15228.6	6675.0	5756.8	5416.5	5509.7	5579.6	5323.3	5127.5	4955.0
34256.2	50°	26746.8	15955.8	6218.2	5332.6	5150.8	5337.2	5239.3	5090.2	4861.8	4721.9
38479.4	52.5°	29524.9	16384.6	5812.7	4950.3	4922.4	5108.8	4969.0	4829.2	4656.7	4470.2
41681.7	55°	31417.4	16463.9	5472.4	4670.7	4768.6	4749.9	4698.6	4572.8	4479.5	4232.5
44842.1	57.5°	33533.7	16622.3	5192.7	4502.9	4670.7	4465.6	4446.9	4339.7	4218.5	4050.7
48697.0	60°	36064.8	16869.4	4950.3	4437.6	4586.8	4279.1	4185.9	4143.9	4022.7	3938.8
53335.1	62.5°	38824.3	17093.1	4703.3	4446.9	4488.9	4097.3	3957.5	3943.5	3868.9	3840.9
57688.8	65°	40707.5	16482.5	4395.6	4437.6	4335.0	3910.9	3733.7	3729.1	3668.5	3659.2
59576.6	67.5°	40050.2	14548.0	3980.8	4307.1	4176.6	3724.4	3528.6	3510.0	3430.7	3435.4
57604.9	70°	36759.3	11788.5	3407.4	3985.4	3980.8	3556.6	3314.2	3253.6	3146.4	3165.1
50086.1	72.5°	30587.7	8735.4	2638.3	3449.4	3668.5	3402.8	3067.2	2969.3	2834.1	2852.7
36973.8	75°	22090.1	5938.5	1920.5	2624.3	3193.0	3221.0	2824.8	2657.0	2493.8	2521.8
20579.8	77.5°	11303.8	3365.5	1412.4	1808.6	2507.8	2927.3	2605.7	2381.9	2344.7	2605.7
5933.9	80°	3687.1	1687.4	978.9	1267.9	1645.5	2395.9	2284.1	2027.7	2018.4	2079.0
1244.6	82.5°	1100.1	713.2	629.3	834.4	909.0	1836.6	1971.7	1533.6	1319.2	1389.1
414.9	85°	377.6	344.9	358.9	414.9	433.5	1076.8	1379.8	1016.2	960.2	1058.1
93.2	87.5°	88.6	121.2	102.5	93.2	93.2	261.0	536.1	424.2	587.3	391.6
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°
10595.2
8376.4
7612.0
7714.5
7975.6
8199.3
8325.2
8306.5
8101.4
7756.5
7383.6
7043.3
6758.9
6633.1
6456.0
6139.0
5556.3
5234.7
5160.1
4950.3
4708.0
4432.9
4237.2
3994.8
3962.1
3840.9
3654.5
3435.4
3183.7
2848.1
2531.1
2568.4
1785.3
1435.7
1044.1
377.6
0.0

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