

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: P957213

Luminaire Tested: **GALN-SB9C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957213
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-SB9C-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66458 lumens
Efficiency: N/A
Efficacy: 147.8 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

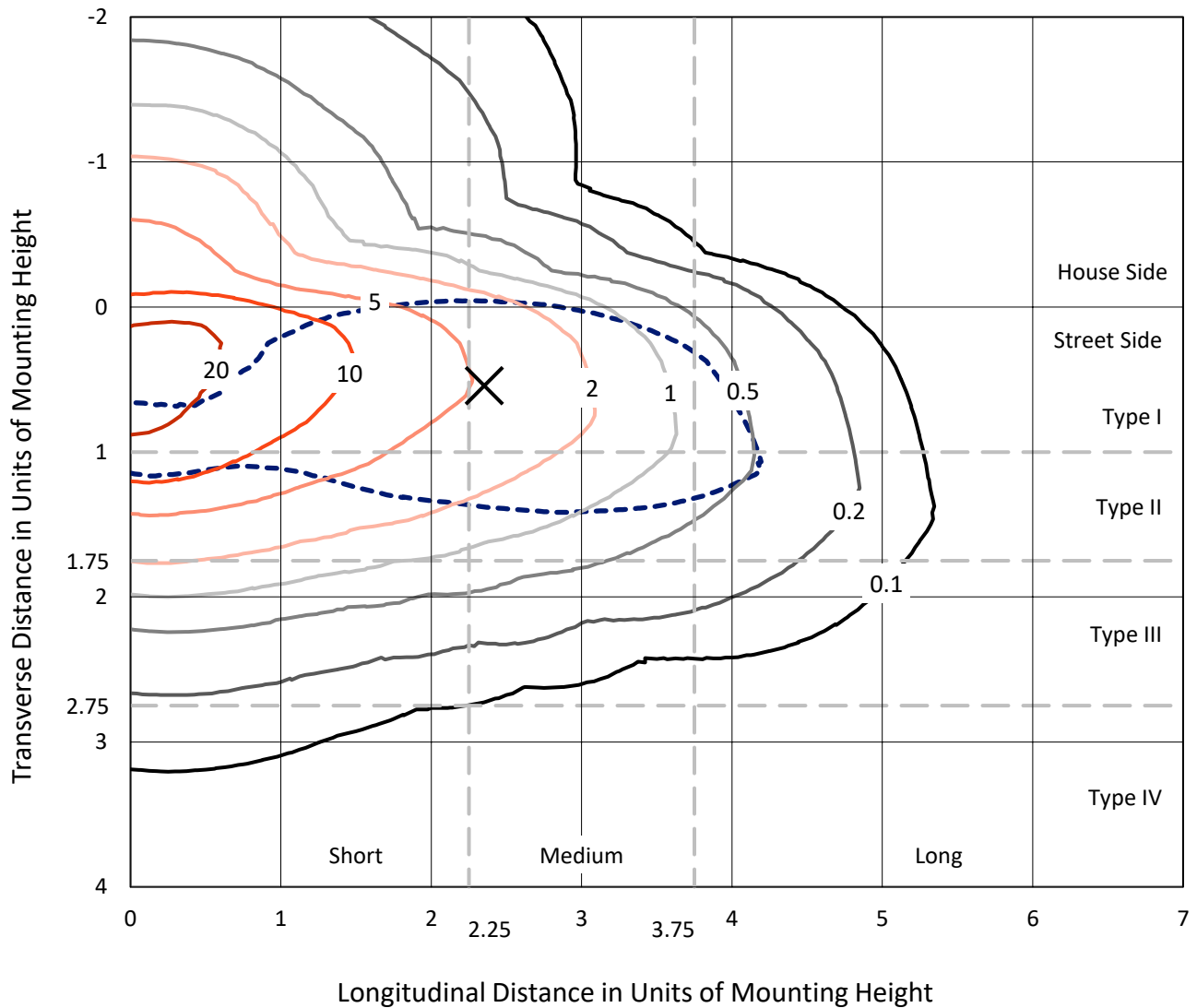
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

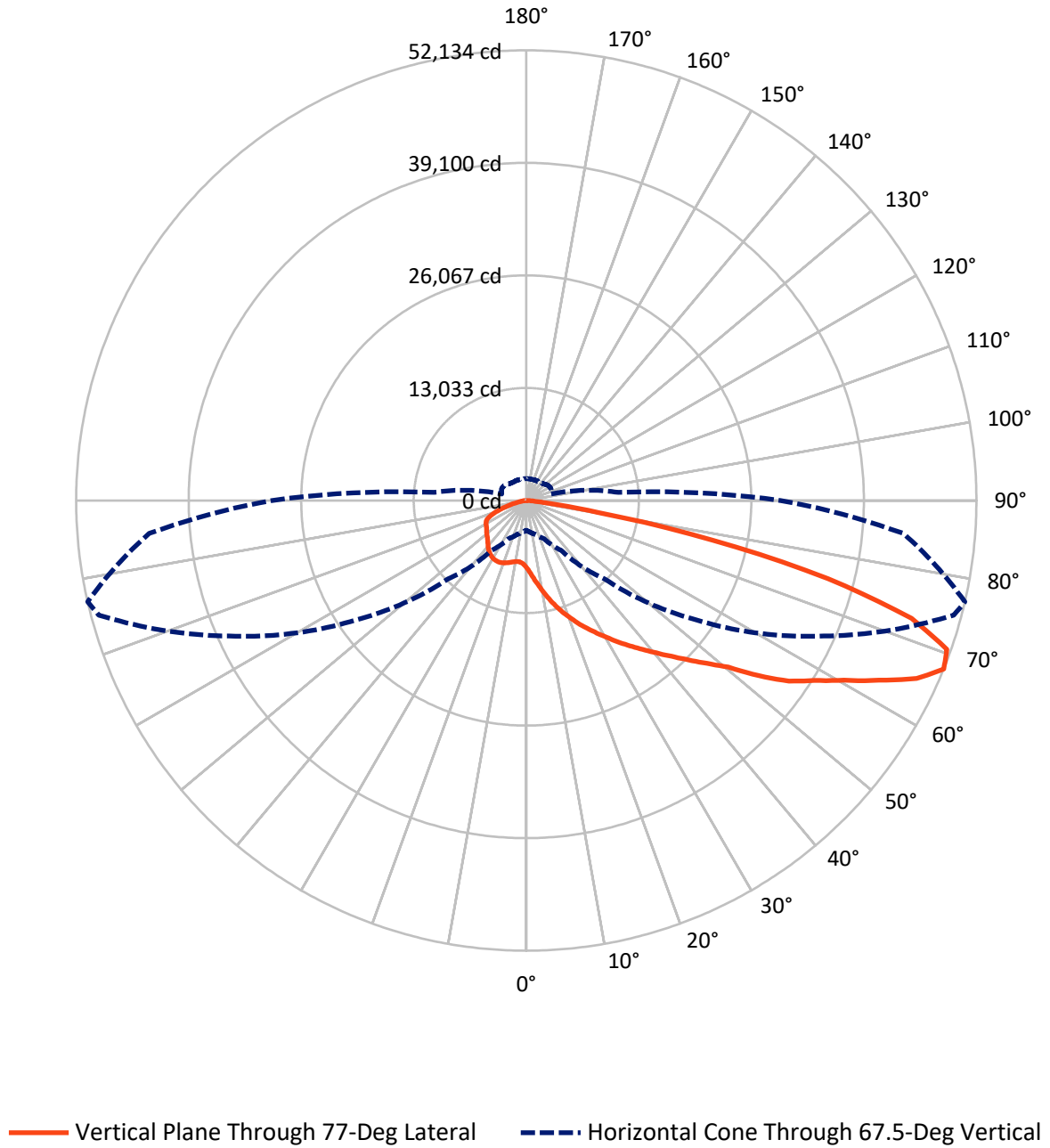
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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	12571.2	0.0	12571.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	53886.8	0.0	53886.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	66458.0	0.0	66458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.8	1.3
10°-20°	3002.7	4.5
20°-30°	5669.3	8.5
30°-40°	9133.2	13.7
40°-50°	12492.6	18.8
50°-60°	14091.7	21.2
60°-70°	13152.9	19.8
70°-80°	7210.0	10.8
80°-90°	869.7	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°	66458.0	100.0
0°-180°	66458.0	100.0

Coefficient of Utilization

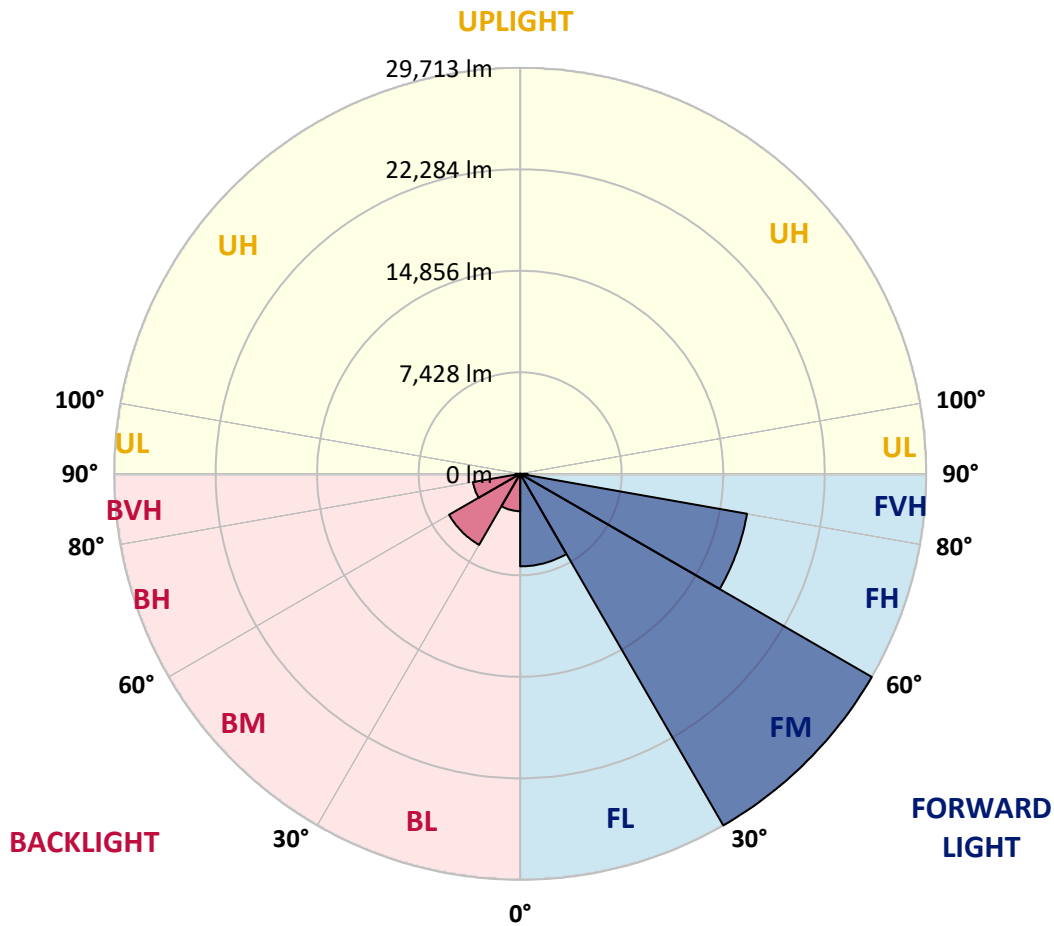


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6774.6	10.2			
FM (30°-60°)	29712.6	44.7			
FH (60°-80°)	16855.7	25.4			G5
FVH (80°-90°)	543.9	0.8			G4/750
BL (0°-30°)	2733.3	4.1	B4/5000		
BM (30°-60°)	6004.9	9.0	B4/8500		
BH (60°-80°)	3507.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	325.8	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°	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6
2.5°	9763.3	9831.9	9746.1	9746.1	9458.0	9307.0	9018.9	8799.3	8404.8	8336.2
5°	11540.3	11626.1	11506.0	11454.5	11114.9	10802.7	10319.0	9842.2	9138.9	9066.9
7.5°	12915.9	13025.7	12919.4	12864.5	12562.6	12212.7	11646.6	10981.1	9989.7	9849.0
10°	14037.7	14054.9	14020.6	14041.1	13804.4	13516.3	12936.5	12161.2	10922.8	10730.7
12.5°	14672.4	14751.3	14819.9	14943.4	14902.2	14723.8	14202.4	13276.1	11910.8	11663.8
15°	14970.8	15108.0	15262.4	15547.1	15777.0	15821.6	15423.6	14473.4	12915.9	12617.5
17.5°	15077.2	15207.5	15451.1	15862.8	16356.8	16689.5	16511.1	15636.3	13910.8	13567.7
20°	15615.8	15653.5	15801.0	16192.1	16727.3	17279.6	17413.4	16754.7	14895.3	14507.7
22.5°	16768.4	16692.9	16734.1	16912.5	17296.7	17831.9	18137.2	17742.7	15907.4	15461.4
25°	18672.4	18452.8	18233.3	18027.4	18223.0	18524.8	18871.3	18730.7	16967.4	16401.4
27.5°	21077.2	20809.6	20325.9	19650.1	19413.4	19519.7	19674.1	19646.6	17948.5	17375.6
30°	23444.2	23132.0	22555.7	21578.0	20953.7	20672.4	20555.7	20476.8	19015.4	18404.8
32.5°	25334.4	25087.4	24521.4	23427.1	22521.4	22041.1	21653.5	21372.2	20130.3	19519.7
35°	26988.0	26758.1	26109.7	24915.9	23931.4	23420.2	22912.5	22312.1	21289.9	20672.4
37.5°	28497.4	28267.5	27379.0	26137.2	25145.8	24792.4	24339.6	23320.7	22452.8	21869.6
40°	29451.1	29399.6	28569.4	27162.9	26133.8	25958.8	25807.9	24490.5	23742.7	23200.7
42.5°	29694.6	29807.8	29149.2	27993.1	27012.0	26871.3	27224.7	25814.7	25190.4	24672.4
45°	29108.0	29433.9	29001.7	28216.1	27636.3	27560.9	28480.2	27262.4	26792.4	26319.0
47.5°	27622.6	28174.9	27996.5	27886.8	27804.4	28130.3	29584.9	28799.3	28607.2	28195.5
50°	24624.3	25670.6	25982.8	26675.8	27471.7	28572.9	30590.0	30476.8	30727.2	30312.1
52.5°	19440.8	20881.6	22692.9	24428.8	26449.4	28425.3	31694.6	32885.0	33941.6	33715.2
55°	16048.0	16696.4	18089.2	21272.7	24466.5	27804.4	32192.1	34830.1	37132.0	36929.6
57.5°	13440.8	14020.6	14878.2	17536.9	21468.2	26394.5	32500.8	36017.1	39317.3	39296.7
60°	10644.9	11259.0	12137.2	14020.6	17965.7	23958.8	32432.2	37368.7	42106.3	42277.8
62.5°	7488.8	8164.7	9138.9	10895.4	14387.6	20802.7	31032.5	38346.4	45389.3	45855.9
65°	4922.8	5368.8	6102.9	7619.2	10720.4	16744.4	28360.2	38473.4	48902.2	49691.2
67.5°	3451.1	3622.6	4054.9	4878.2	7066.9	12840.5	24102.9	37159.5	51245.2	52133.7
70°	2693.0	2778.7	2998.3	3327.6	4439.1	8634.6	18470.0	33742.7	50744.4	51670.6
72.5°	2325.9	2408.2	2490.6	2531.7	2977.7	5331.0	12511.1	28212.7	46027.4	46655.2
75°	2109.8	2130.4	2199.0	2185.2	2271.0	3458.0	7221.3	20555.7	36315.6	36099.4
77.5°	1773.6	1801.0	1914.2	1897.1	2017.1	2363.6	3749.6	13265.8	23543.7	22075.4
80°	1502.6	1516.3	1639.8	1619.2	1753.0	1711.8	1914.2	6761.6	9986.3	8459.7
82.5°	521.4	644.9	1252.1	1289.9	1337.9	1036.0	1104.6	2758.1	3049.7	2336.2
85°	253.9	271.0	638.1	905.7	902.2	521.4	538.6	984.6	960.5	754.7
87.5°	41.2	51.5	75.5	353.3	281.3	137.2	185.2	192.1	199.0	171.5
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°
7797.6	0°	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6	7797.6
8075.5	2.5°	7883.4	7711.8	7351.6	7018.9	6758.1	6507.7	6367.1	6247.0	6178.4	6164.7
8452.8	5°	8096.0	7742.7	7087.5	6535.2	6174.9	5907.4	5766.7	5677.5	5632.9	5605.5
8960.5	7.5°	8401.4	7883.4	6950.2	6322.5	5945.1	5753.0	5681.0	5667.2	5663.8	5667.2
9574.6	10°	8823.3	8113.2	6936.5	6271.0	5955.4	5849.0	5845.6	5849.0	5862.8	5866.2
10243.6	12.5°	9279.6	8349.9	6991.4	6315.6	6085.8	6027.4	6017.1	6013.7	6024.0	6030.9
10919.4	15°	9777.0	8662.1	7084.0	6411.7	6229.8	6168.1	6157.8	6137.2	6133.8	6130.4
11629.5	17.5°	10288.2	8970.8	7187.0	6514.6	6322.5	6236.7	6199.0	6150.9	6113.2	6102.9
12363.6	20°	10806.2	9276.1	7259.0	6566.0	6329.3	6209.3	6133.8	6051.4	5986.3	5948.5
13104.6	22.5°	11358.5	9595.2	7303.6	6552.3	6267.6	6102.9	5965.7	5869.6	5770.1	5705.0
13852.5	25°	11897.1	9873.1	7300.2	6480.3	6147.5	5938.2	5763.3	5639.8	5502.6	5434.0
14624.3	27.5°	12415.1	10123.5	7214.4	6353.3	5976.0	5742.7	5533.4	5385.9	5252.1	5187.0
15403.1	30°	12950.2	10332.7	7080.6	6168.1	5773.6	5516.3	5286.4	5159.5	5039.4	4977.7
16226.4	32.5°	13482.0	10524.9	6891.9	5938.2	5540.3	5293.3	5066.9	4950.3	4878.2	4878.2
17111.5	35°	14044.6	10658.6	6641.5	5670.7	5293.3	5056.6	4878.2	4809.6	4802.7	4761.6
18048.0	37.5°	14638.1	10744.4	6336.2	5396.2	5049.7	4826.8	4771.9	4689.5	4620.9	4531.7
19077.2	40°	15262.4	10830.2	5969.1	5111.5	4792.4	4668.9	4644.9	4535.2	4339.6	4120.1
20243.5	42.5°	16020.6	10888.5	5588.3	4826.8	4521.4	4480.3	4514.6	4325.9	4013.7	3849.1
21650.1	45°	16898.8	10984.5	5238.4	4545.4	4243.6	4243.6	4387.6	4140.6	3883.4	3780.4
23255.5	47.5°	18037.7	11207.5	4912.5	4236.7	3986.3	4054.9	4106.3	3917.7	3773.6	3646.7
25210.9	50°	19684.4	11742.7	4576.3	3924.5	3790.7	3928.0	3855.9	3746.1	3578.0	3475.1
28319.0	52.5°	21729.0	12058.3	4277.9	3643.2	3622.6	3759.9	3656.9	3554.0	3427.1	3289.9
30675.8	55°	23121.8	12116.6	4027.4	3437.4	3509.4	3495.7	3458.0	3365.3	3296.7	3114.9
33001.7	57.5°	24679.2	12233.3	3821.6	3313.9	3437.4	3286.4	3272.7	3193.8	3104.6	2981.1
35838.7	60°	26542.0	12415.1	3643.2	3265.9	3375.6	3149.2	3080.6	3049.7	2960.5	2898.8
39252.1	62.5°	28572.9	12579.7	3461.4	3272.7	3303.6	3015.4	2912.5	2902.2	2847.3	2826.8
42456.2	65°	29958.8	12130.3	3235.0	3265.9	3190.4	2878.2	2747.9	2744.4	2699.8	2693.0
43845.6	67.5°	29475.1	10706.7	2929.7	3169.8	3073.8	2741.0	2596.9	2583.2	2524.9	2528.3
42394.5	70°	27053.1	8675.8	2507.7	2933.1	2929.7	2617.5	2439.1	2394.5	2315.6	2329.3
36861.0	72.5°	22511.1	6428.8	1941.7	2538.6	2699.8	2504.3	2257.3	2185.2	2085.8	2099.5
27210.9	75°	16257.3	4370.5	1413.4	1931.4	2349.9	2370.5	2078.9	1955.4	1835.3	1855.9
15145.8	77.5°	8319.0	2476.8	1039.4	1331.0	1845.6	2154.4	1917.7	1753.0	1725.6	1917.7
4367.1	80°	2713.5	1241.9	720.4	933.1	1211.0	1763.3	1681.0	1492.3	1485.4	1530.0
916.0	82.5°	809.6	524.9	463.1	614.1	669.0	1351.6	1451.1	1128.6	970.8	1022.3
305.3	85°	277.9	253.9	264.2	305.3	319.0	792.5	1015.4	747.9	706.7	778.7
68.6	87.5°	65.2	89.2	75.5	68.6	68.6	192.1	394.5	312.2	432.2	288.2
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°
7797.6
6164.7
5602.1
5677.5
5869.6
6034.3
6126.9
6113.2
5962.3
5708.4
5434.0
5183.5
4974.3
4881.6
4751.3
4518.0
4089.2
3852.5
3797.6
3643.2
3464.8
3262.4
3118.3
2940.0
2915.9
2826.8
2689.5
2528.3
2343.1
2096.1
1862.8
1890.2
1313.9
1056.6
768.4
277.9
0.0

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