

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: P944605

Luminaire Tested: **GALN-SB9C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64650 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

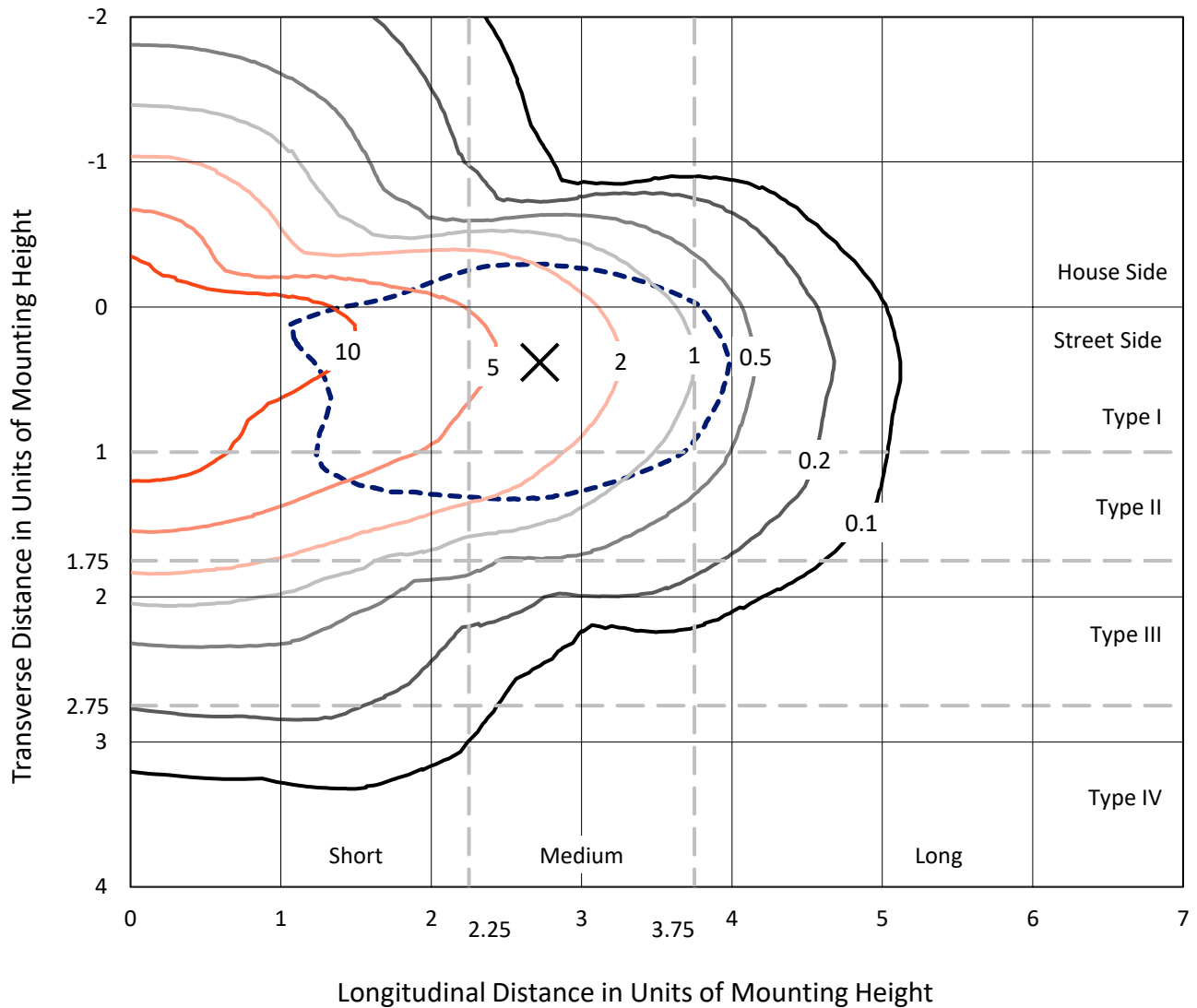
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944605
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Iso-Footcandle Lines of Horizontal Illumination

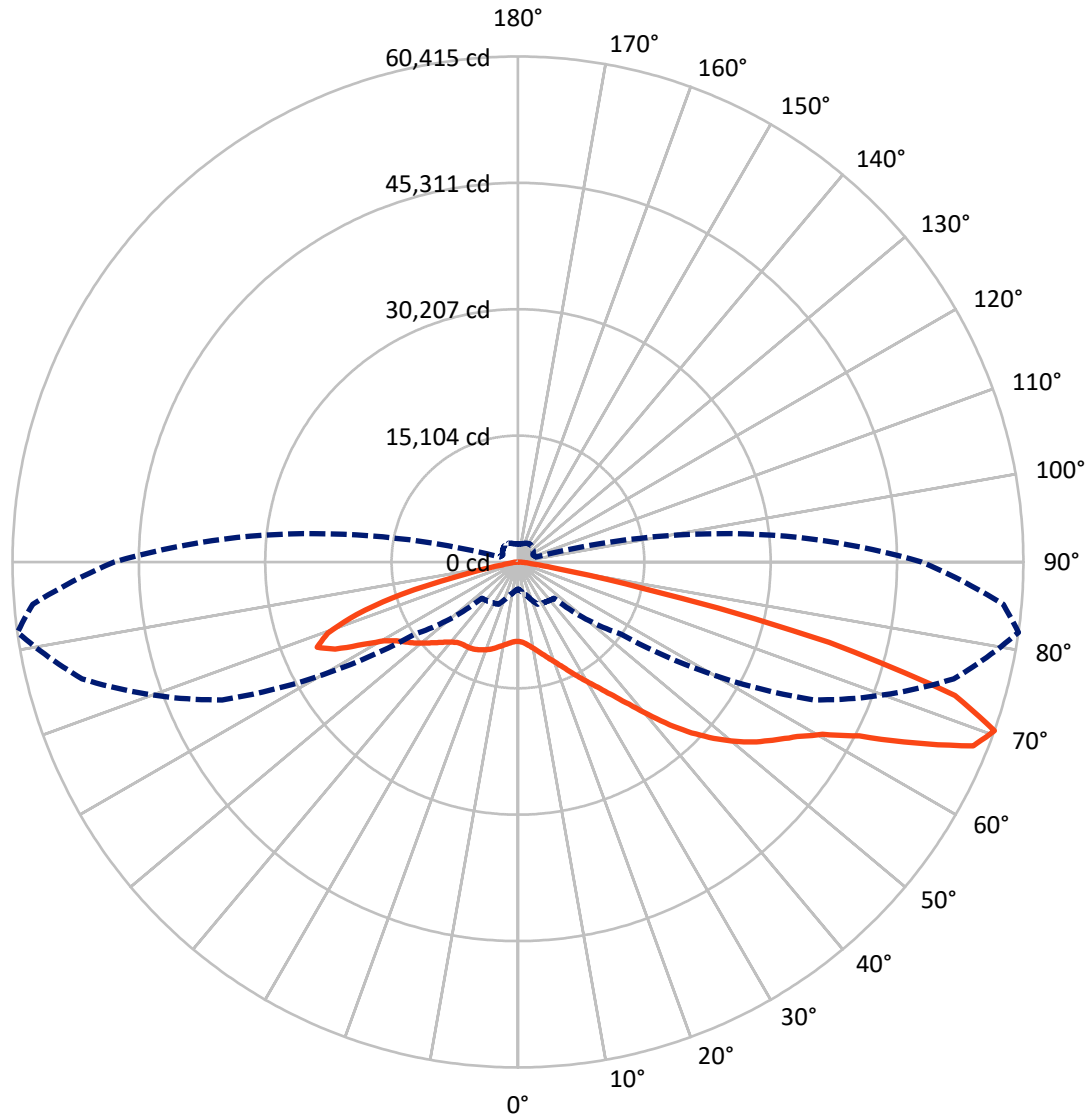
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P944605
CATALOG NUMBER: GALN-SB9C-850-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15937.8	0.0	15937.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	48712.2	0.0	48712.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	64650.0	0.0	64650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.9	1.4
10°-20°	2571.2	4.0
20°-30°	4301.4	6.7
30°-40°	6719.9	10.4
40°-50°	10702.2	16.6
50°-60°	14893.4	23.0
60°-70°	15579.1	24.1
70°-80°	8142.5	12.6
80°-90°	845.5	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°	64650.0	100.0
0°-180°	64650.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944605

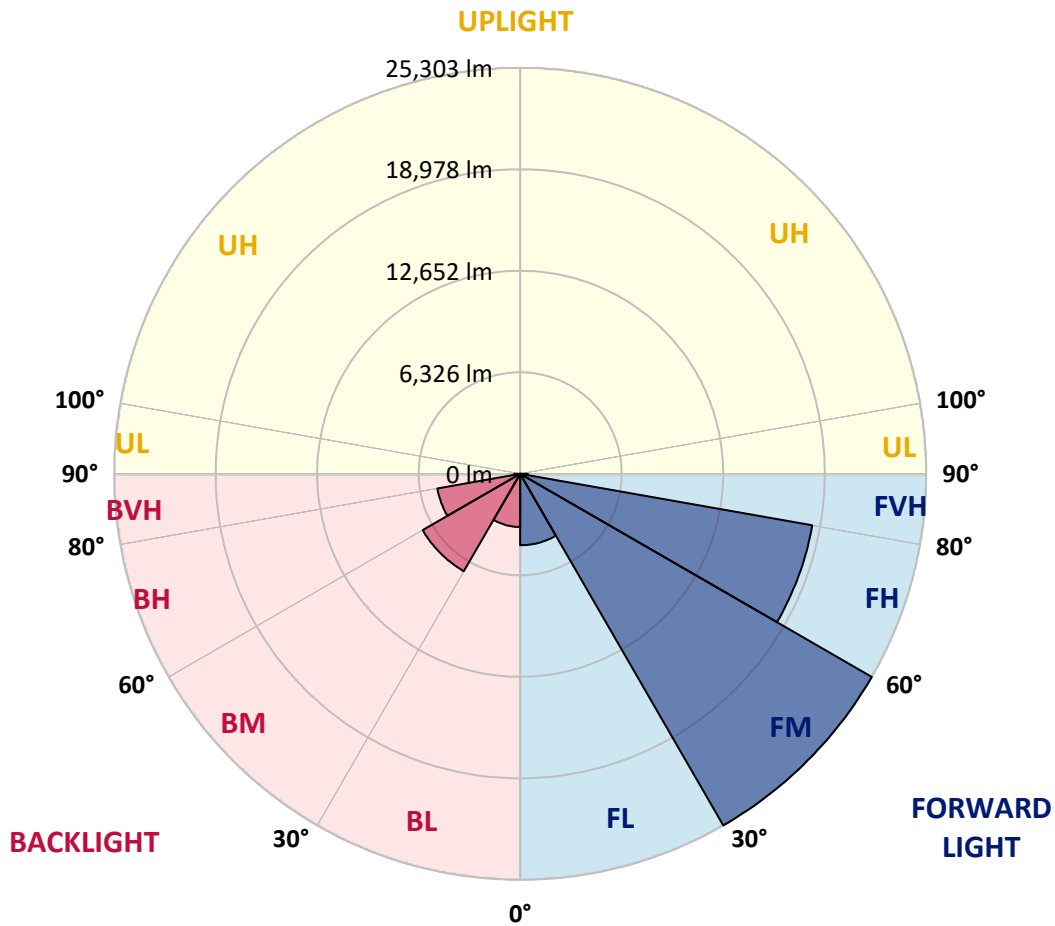
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4451.9	6.9			
FM (30°-60°)	25303.4	39.1			
FH (60°-80°)	18483.6	28.6			G5
FVH (80°-90°)	473.3	0.7			G3/500
BL (0°-30°)	3315.6	5.1	B4/5000		
BM (30°-60°)	7012.0	10.8	B4/8500		
BH (60°-80°)	5238.0	8.1	B5		G5
BVH (80°-90°)	372.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



REPORT NUMBER: P944605

CATALOG NUMBER: GALN-SB9C-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5
2.5°	9704.9	9759.8	9742.6	9725.5	9725.5	9701.5	9698.1	9663.7	9636.3	9591.7
5°	9828.4	9886.7	9879.9	9893.6	9938.2	9948.5	9958.8	9938.2	9883.3	9828.4
7.5°	9718.6	9783.8	9804.4	9886.7	10023.9	10147.4	10240.1	10277.8	10226.3	10147.4
10°	9348.1	9420.2	9492.2	9687.8	9931.3	10222.9	10469.9	10617.4	10607.1	10531.7
12.5°	8596.9	8672.3	8826.7	9207.5	9653.5	10168.0	10627.7	10936.5	11042.8	10987.9
15°	7996.5	8061.7	8178.3	8569.4	9149.2	9931.3	10686.0	11286.4	11557.4	11526.5
17.5°	7979.4	8006.8	8078.9	8264.1	8710.1	9560.8	10624.3	11629.4	12147.4	12144.0
20°	8281.3	8291.5	8332.7	8370.4	8624.3	9279.5	10466.5	11914.2	12809.5	12809.5
22.5°	8699.8	8692.9	8734.1	8699.8	8823.3	9255.5	10367.0	12164.6	13547.1	13602.0
25°	9327.6	9293.3	9283.0	9204.1	9228.1	9478.5	10476.8	12449.3	14421.9	14535.1
27.5°	10164.6	10109.7	10072.0	9890.2	9828.4	9938.2	10813.0	12792.4	15396.1	15591.7
30°	11255.5	11156.0	11101.1	10785.5	10562.5	10579.7	11320.7	13248.6	16415.0	16730.6
32.5°	12744.3	12590.0	12442.5	11924.5	11516.2	11382.4	11975.9	13879.8	17519.6	18023.9
35°	14411.6	14288.1	14130.3	13331.0	12703.2	12394.4	12861.0	14761.5	18812.9	19612.2
37.5°	16017.0	15910.7	15986.2	14909.0	14099.4	13650.0	14020.5	15945.0	20408.1	21588.2
40°	17677.4	17595.1	17605.4	16576.2	15632.8	15128.5	15427.0	17430.4	22236.6	23938.1
42.5°	19481.9	19420.1	19214.3	18301.8	17241.7	16771.8	17046.2	19145.7	24198.8	26613.9
45°	21502.4	21464.7	21272.6	20226.3	19011.9	18483.6	18854.1	21039.3	26171.4	29131.9
47.5°	23248.6	23279.4	23255.4	22373.8	21114.8	20339.5	20782.0	23015.3	28006.7	31498.9
50°	24089.0	24250.3	24487.0	24212.5	23430.4	22641.4	22727.1	24922.7	29756.2	33718.5
52.5°	23649.9	23955.2	24600.2	25039.3	25341.2	25176.5	24946.7	26816.3	31402.9	35721.9
55°	22013.6	22442.4	23512.7	24572.7	26113.0	27310.3	27612.2	28915.8	33008.4	37485.2
57.5°	19032.5	19728.9	20689.4	22833.5	25426.9	28342.9	30720.2	31828.3	34709.9	39368.5
60°	13921.0	14854.1	16047.9	19238.3	23025.6	27790.6	33365.1	36301.7	37128.4	41807.6
62.5°	8909.0	9485.4	10583.1	13588.2	17941.6	24960.4	34174.7	41893.4	41227.9	45807.6
65°	6099.4	6469.9	7475.1	9162.9	11598.6	18579.6	32006.7	46085.5	47739.0	52147.2
67.5°	4432.2	4713.5	5571.1	7049.7	7557.4	10994.8	24836.9	45893.4	54068.3	58678.9
70°	3231.5	3430.5	4150.9	5571.1	5814.7	6116.6	15046.2	39011.8	53931.0	60414.7
72.5°	2394.5	2531.7	3015.4	4322.4	4706.7	4130.3	7447.6	28353.2	46342.8	54644.6
75°	1732.4	1835.3	2192.1	3307.0	3766.7	3145.8	3715.2	16569.4	32325.7	38438.9
77.5°	1324.2	1403.1	1636.4	2421.9	3015.4	2360.2	2305.3	7622.6	15327.5	15403.0
80°	1063.5	1114.9	1241.8	1705.0	2312.2	1766.7	1502.6	3077.2	4843.9	4099.5
82.5°	782.2	867.9	1049.7	1197.2	1653.5	1217.8	915.9	1554.0	1842.2	1584.9
85°	446.0	504.3	634.6	857.6	1056.6	744.4	524.9	689.5	857.6	703.3
87.5°	157.8	205.8	223.0	336.2	459.7	308.7	202.4	199.0	281.3	209.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944605
 CATALOG NUMBER: GALN-SB9C-850-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9478.5	0°	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5	9478.5
9581.4	2.5°	9547.1	9530.0	9461.3	9368.7	9272.7	9180.0	9149.2	9084.0	9039.4	9015.4
9804.4	5°	9739.2	9684.3	9523.1	9317.3	9101.1	8867.9	8703.2	8552.3	8442.5	8339.6
10109.7	7.5°	10013.7	9917.6	9639.7	9279.5	8895.3	8507.7	8219.5	7999.9	7852.4	7756.4
10466.5	10°	10332.7	10185.2	9759.8	9221.2	8627.7	8072.0	7732.4	7543.7	7451.1	7399.6
10874.7	12.5°	10699.8	10490.5	9883.3	9087.4	8219.5	7584.9	7351.6	7296.7	7300.1	7303.6
11389.3	15°	11152.6	10861.0	9982.8	8795.8	7687.8	7210.9	7169.8	7259.0	7351.6	7396.2
11972.5	17.5°	11663.7	11252.1	9999.9	8315.6	7166.3	6970.8	7101.2	7293.3	7433.9	7495.7
12624.3	20°	12212.6	11650.0	9876.4	7636.3	6737.5	6775.3	7008.5	7255.5	7409.9	7488.8
13368.7	22.5°	12840.4	12075.4	9581.4	6922.8	6387.6	6562.6	6837.0	7077.1	7238.4	7317.3
14243.5	25°	13557.4	12552.2	9118.3	6322.4	6085.7	6322.4	6596.9	6795.8	6926.2	6998.2
15221.2	27.5°	14353.3	13049.7	8500.8	5845.6	5821.6	6075.4	6301.8	6456.2	6524.8	6579.7
16260.6	30°	15152.6	13502.5	7753.0	5485.4	5591.7	5831.9	5993.1	6061.7	6082.3	6092.6
17420.1	32.5°	16017.0	13893.6	6967.4	5186.9	5372.2	5595.2	5691.2	5722.1	5626.0	5560.9
18826.6	35°	17063.4	14312.1	6198.9	4950.2	5156.1	5348.2	5379.0	5351.6	5238.4	5104.6
20589.9	37.5°	18356.7	14833.5	5584.9	4782.1	4953.7	5080.6	5042.8	5036.0	5046.3	4888.5
22710.0	40°	19941.6	15512.8	5135.5	4651.8	4789.0	4816.4	4710.1	4768.4	4819.9	4579.7
25035.9	42.5°	21701.4	16332.7	4850.7	4562.6	4651.8	4586.6	4421.9	4487.1	4480.2	4164.6
27372.0	45°	23495.6	17224.6	4751.3	4497.4	4524.8	4394.5	4212.7	4229.8	4085.7	3801.0
29612.2	47.5°	25279.4	18181.7	4813.0	4442.5	4367.0	4219.5	4078.9	4003.4	3790.7	3578.0
31759.7	50°	27029.0	19186.8	5039.4	4332.7	4150.9	4065.2	3962.2	3828.4	3602.0	3420.2
33790.5	52.5°	28651.6	20198.8	5293.3	4150.9	3879.9	3931.4	3866.2	3711.8	3488.8	3303.6
35711.6	55°	30188.5	21210.8	5392.8	3900.5	3626.0	3814.7	3777.0	3492.3	3224.7	3073.7
37721.9	57.5°	31862.6	22428.7	5283.0	3581.5	3420.2	3680.9	3536.9	3221.2	3066.9	2953.7
40339.4	60°	34181.6	24339.5	5046.3	3186.9	3224.7	3482.0	3235.0	3104.6	2936.5	2809.6
44263.9	62.5°	38034.1	27903.8	4665.5	2795.9	2994.8	3186.9	3090.9	2960.5	2789.0	2665.5
50973.9	65°	43728.7	32857.4	3948.5	2490.6	2737.5	2898.8	2936.5	2806.2	2627.8	2497.4
56853.8	67.5°	48531.4	35965.5	2988.0	2236.7	2473.4	2665.5	2771.9	2644.9	2456.2	2329.3
58229.5	70°	48267.3	33708.2	2281.3	1986.3	2240.1	2435.7	2572.9	2473.4	2271.0	2150.9
52891.6	72.5°	42871.1	28198.8	1845.6	1732.4	2003.4	2195.5	2360.2	2284.7	2078.9	1962.3
38747.6	75°	31495.5	20017.0	1475.1	1475.1	1708.4	1945.1	2126.9	2078.9	1890.2	1807.9
16267.5	77.5°	13276.1	8397.9	1156.1	1224.7	1420.2	1670.7	1897.1	1914.2	1749.6	1852.5
4301.9	80°	3530.0	2315.6	881.6	964.0	1114.9	1379.1	1650.1	1643.2	1464.8	1368.8
1598.6	82.5°	1344.8	912.5	627.8	679.2	806.2	1056.6	1307.0	1348.2	1169.8	1012.0
627.8	85°	518.0	391.1	387.6	408.2	470.0	699.8	988.0	1022.3	881.6	747.9
175.0	87.5°	133.8	116.6	144.1	137.2	216.1	373.9	566.0	586.6	538.6	312.2
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°
9478.5
9042.8
8380.7
7777.0
7413.3
7310.4
7392.7
7509.4
7509.4
7337.9
7018.8
6600.3
6116.6
5581.4
5111.5
4898.8
4586.6
4161.2
3811.3
3578.0
3406.5
3307.0
3060.0
2943.4
2802.7
2665.5
2504.3
2332.7
2161.2
1962.3
1783.9
1680.9
1272.7
1012.0
771.9
446.0
0.0

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