

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: P957322

Luminaire Tested: **GALN-SB9C-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957322
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-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48715 lumens
Efficiency: N/A
Efficacy: 108.3 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

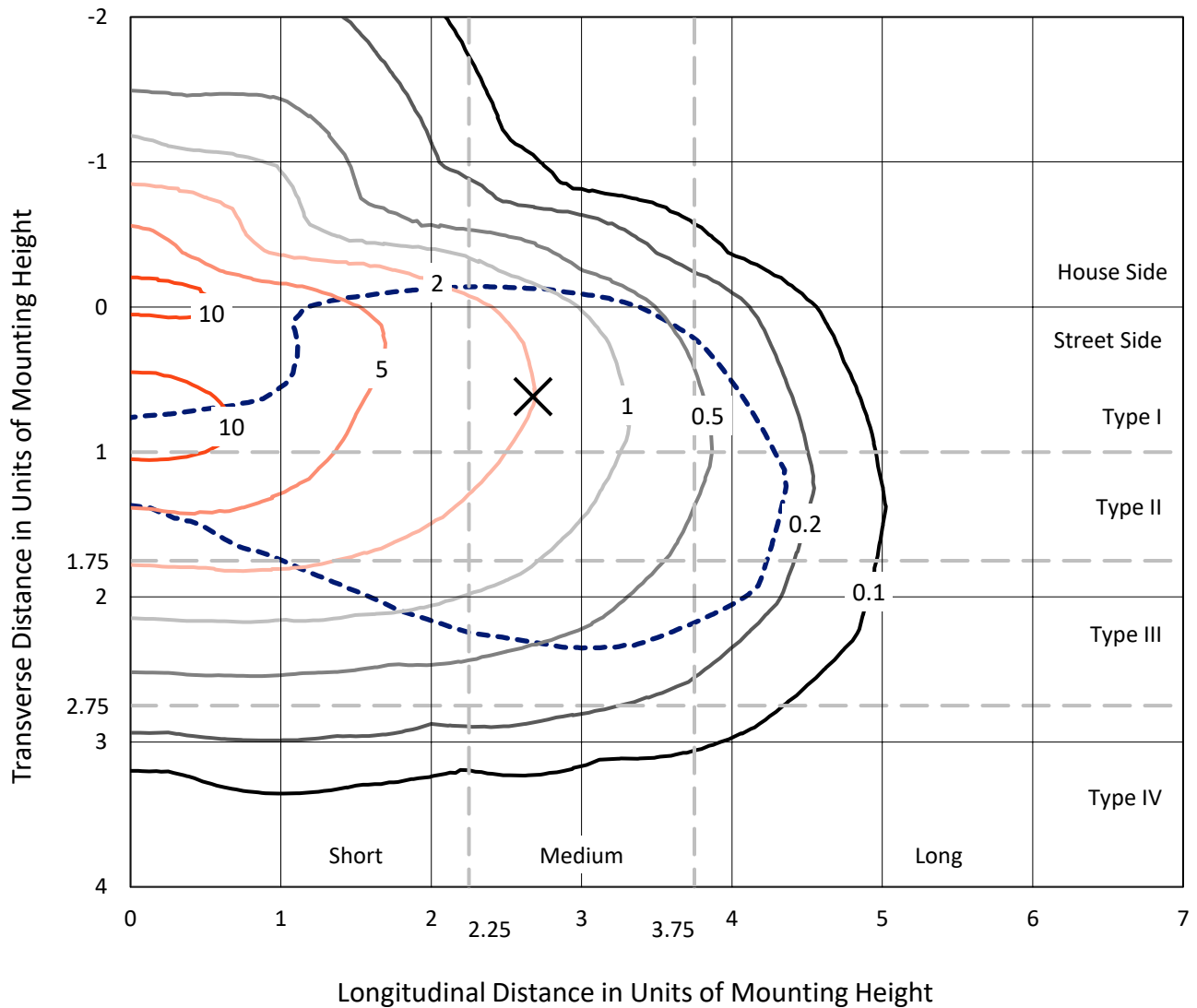
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

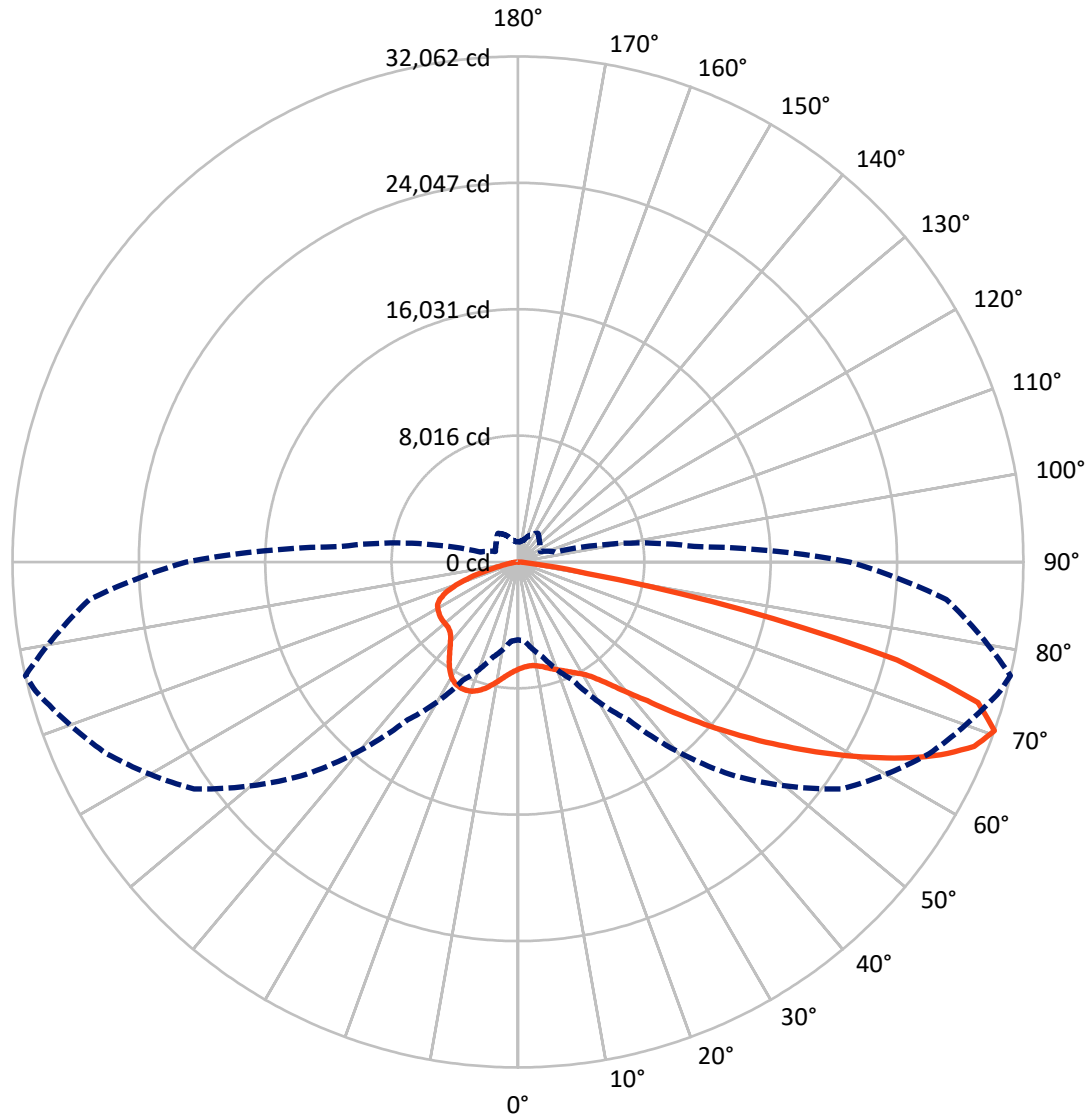
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	10667.8	0.0	10667.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	38047.2	0.0	38047.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	48715.0	0.0	48715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.2	1.3
10°-20°	1870.7	3.8
20°-30°	3199.1	6.6
30°-40°	5144.5	10.6
40°-50°	8032.0	16.5
50°-60°	10728.8	22.0
60°-70°	11435.3	23.5
70°-80°	7039.5	14.5
80°-90°	616.8	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°	48715.0	100.0
0°-180°	48715.0	100.0

Coefficient of Utilization



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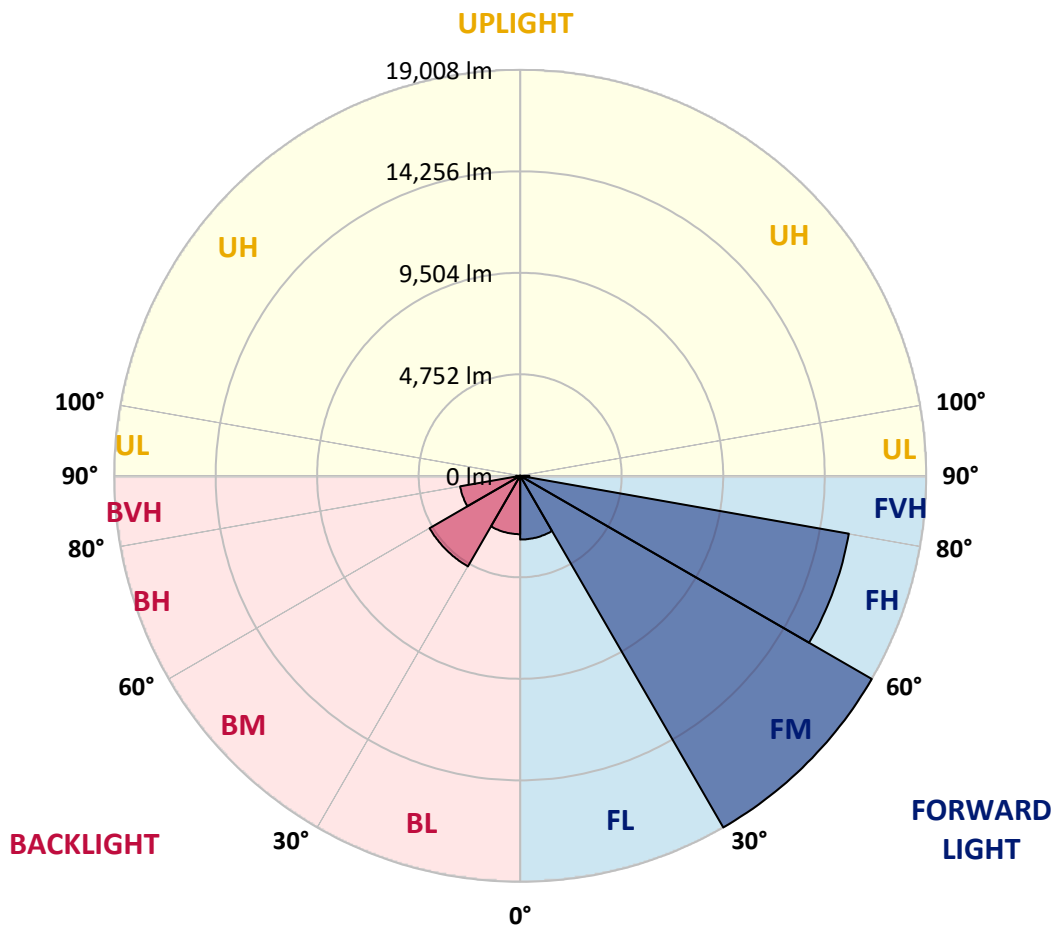
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2984.6	6.1			
FM (30°-60°)	19007.5	39.0			
FH (60°-80°)	15623.7	32.1			G5
FVH (80°-90°)	431.3	0.9			G3/500
BL (0°-30°)	2733.4	5.6	B4/5000		
BM (30°-60°)	4897.8	10.1	B3/5000		
BH (60°-80°)	2851.0	5.9	B4/5000		G4/5000
BVH (80°-90°)	185.5	0.4			G2/225
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°	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2
2.5°	6264.8	6262.3	6294.7	6304.7	6364.6	6407.0	6486.8	6571.6	6681.4	6693.9
5°	5903.0	5903.0	5940.4	5980.3	6057.7	6142.5	6264.8	6412.0	6601.6	6631.5
7.5°	5596.1	5616.1	5648.5	5725.9	5815.7	5937.9	6125.1	6334.6	6584.1	6631.5
10°	5349.1	5371.6	5411.5	5473.9	5608.6	5778.3	6022.8	6292.2	6626.5	6701.4
12.5°	5271.8	5294.2	5316.7	5364.1	5488.8	5688.4	5980.3	6312.2	6728.8	6803.7
15°	5451.4	5478.9	5461.4	5448.9	5513.8	5695.9	6000.3	6384.5	6856.1	6963.3
17.5°	5865.6	5875.6	5835.6	5718.4	5708.4	5805.7	6095.1	6484.3	7015.7	7133.0
20°	6534.2	6516.8	6434.4	6202.4	6070.2	6050.2	6257.3	6634.0	7180.4	7305.2
22.5°	7442.4	7422.4	7257.7	6891.0	6596.6	6402.0	6491.8	6828.6	7365.0	7504.7
25°	8575.1	8547.6	8305.6	7806.6	7350.1	6868.5	6811.2	7085.6	7592.1	7721.8
27.5°	9897.4	9874.9	9613.0	8954.3	8295.6	7507.2	7207.9	7387.5	7829.1	7976.3
30°	11319.5	11384.4	10920.3	10211.7	9378.4	8340.5	7741.8	7759.2	8136.0	8268.2
32.5°	12991.1	13103.4	12544.5	11646.3	10508.6	9246.2	8415.4	8278.2	8582.6	8692.3
35°	14647.7	14775.0	14310.9	13317.9	12008.1	10314.0	9119.0	8874.5	9176.3	9296.1
37.5°	16079.8	16249.5	16010.0	15146.7	13612.3	11601.4	10037.1	9575.5	9907.4	10057.1
40°	17210.0	17469.5	17452.0	16913.1	15503.5	13163.2	11202.2	10441.3	10815.5	10977.7
42.5°	18128.2	18352.7	18547.3	18519.9	17477.0	14937.1	12571.9	11566.5	11850.9	12038.0
45°	18761.9	19001.4	19420.5	19872.1	19375.6	16835.8	14141.3	12901.3	13160.8	13442.7
47.5°	19328.2	19600.2	20144.1	20860.1	20987.3	18741.9	15860.3	14455.6	14692.6	14984.5
50°	19378.1	19612.6	20455.9	21471.4	22132.5	20573.2	17706.5	16199.6	16421.6	16733.5
52.5°	18173.1	18542.3	20014.3	21453.9	22658.9	22105.1	19540.3	18013.4	18262.9	18637.1
55°	14106.3	14647.7	18719.5	20785.3	22471.8	23095.6	21284.2	19942.0	20261.3	20653.0
57.5°	12150.3	12387.3	14859.8	19567.7	21618.6	23352.5	22756.2	21890.5	22404.5	22833.6
60°	10920.3	11117.4	12579.4	17674.1	20495.8	22945.9	23893.9	23706.8	24595.0	25106.5
62.5°	9603.0	9790.1	11119.9	14757.5	19058.8	22269.7	24612.5	25383.4	26840.4	27399.3
65°	8295.6	8455.3	9730.2	12399.8	17232.5	21593.6	24984.2	26833.0	28918.7	29497.5
67.5°	6838.6	6970.8	8175.9	10461.2	15012.0	20668.0	25168.8	27973.1	30727.5	31224.0
70°	4935.0	5037.3	6282.2	8273.2	12225.2	19076.2	25094.0	28781.5	31665.6	32062.3
72.5°	2332.8	2425.1	3887.1	5371.6	8634.9	15977.5	23579.6	28140.3	30712.6	30515.5
75°	1245.0	1324.8	2233.0	2946.5	4560.7	10952.7	19295.8	24240.7	25790.1	24832.0
77.5°	843.3	905.7	1382.2	1768.9	2083.3	5199.4	12402.3	16783.4	16147.2	14565.4
80°	668.6	733.5	1132.7	1197.6	1008.0	1878.7	5124.6	7769.2	5581.2	4463.4
82.5°	514.0	586.3	953.1	868.2	548.9	770.9	1492.0	2457.5	1429.6	1087.8
85°	314.4	391.7	748.5	553.9	309.4	351.8	506.5	683.6	436.6	364.3
87.5°	159.7	224.5	379.2	202.1	139.7	82.3	134.7	134.7	114.8	99.8
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°
6796.2	0°	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2	6796.2
6761.3	2.5°	6821.1	6871.0	6955.9	7035.7	7098.1	7158.0	7217.8	7250.3	7260.2	7300.2
6798.7	5°	6901.0	6993.3	7158.0	7312.6	7409.9	7469.8	7512.2	7537.2	7542.2	7554.6
6901.0	7.5°	7048.2	7195.4	7424.9	7579.6	7651.9	7647.0	7629.5	7567.1	7542.2	7519.7
7050.7	10°	7255.3	7449.9	7731.8	7839.1	7794.2	7674.4	7519.7	7337.6	7252.8	7170.4
7255.3	12.5°	7512.2	7759.2	8036.2	8031.2	7809.1	7502.3	7143.0	6863.5	6686.4	6559.2
7507.2	15°	7824.1	8108.5	8320.6	8150.9	7664.4	7113.0	6586.6	6222.4	6062.7	5923.0
7761.7	17.5°	8145.9	8450.3	8547.6	8113.5	7300.2	6536.7	5940.4	5653.5	5496.3	5421.5
8036.2	20°	8460.3	8762.2	8682.4	7898.9	6746.3	5883.0	5351.6	5194.4	5162.0	5179.5
8303.1	22.5°	8792.1	9061.6	8709.8	7484.8	6040.2	5214.4	4922.5	4927.5	4999.8	5052.2
8582.6	25°	9131.4	9313.6	8637.4	6886.0	5281.8	4722.9	4650.5	4730.4	4872.6	4974.9
8896.9	27.5°	9458.3	9538.1	8480.3	6145.0	4630.6	4371.1	4383.6	4548.3	4762.8	4905.0
9278.6	30°	9827.5	9737.7	8178.4	5311.7	4179.0	4069.2	4174.0	4366.1	4580.7	4707.9
9760.2	32.5°	10244.2	9909.9	7699.4	4540.8	3859.7	3827.2	3999.4	4124.1	4218.9	4256.3
10398.9	35°	10763.1	10151.9	7085.6	3999.4	3572.7	3650.1	3814.7	3752.4	3714.9	3695.0
11257.1	37.5°	11436.8	10478.7	6367.1	3647.6	3340.7	3522.8	3590.2	3395.6	3248.4	3176.0
12297.5	40°	12247.6	10957.7	5676.0	3375.6	3193.5	3413.1	3295.8	3061.3	2874.2	2771.9
13467.6	42.5°	13148.3	11459.2	5094.6	3171.1	3111.2	3323.2	3078.7	2799.3	2497.4	2465.0
14862.3	45°	14093.9	11975.7	4698.0	3013.9	3071.3	3245.9	2954.0	2502.4	2287.8	2420.1
16261.9	47.5°	15039.4	12449.7	4458.4	2896.6	3051.3	3158.6	2844.2	2337.7	2185.6	2377.7
17761.4	50°	16092.3	12873.8	4351.2	2811.8	3028.8	3123.7	2679.6	2295.3	2078.3	2205.5
19313.2	52.5°	17137.7	13203.2	4271.3	2727.0	2996.4	3096.2	2599.7	2245.4	1948.5	1956.0
20875.1	55°	18180.5	13417.7	4184.0	2614.7	2924.1	3036.3	2592.2	2190.5	1851.2	1816.3
22526.7	57.5°	19293.3	13540.0	4076.7	2489.9	2799.3	2884.1	2584.7	2148.1	1821.3	1763.9
24215.8	60°	20426.0	13719.6	3937.0	2337.7	2632.2	2702.0	2567.3	2133.2	1803.8	1706.5
25807.5	62.5°	21441.4	13782.0	3769.8	2193.0	2417.6	2522.4	2529.9	2120.7	1756.4	1589.3
27129.9	65°	22107.6	13512.5	3477.9	2028.4	2185.6	2337.7	2457.5	2078.3	1671.6	1504.4
27783.5	67.5°	22080.1	12744.1	3021.4	1816.3	1961.0	2133.2	2352.7	2005.9	1569.3	1399.7
27289.5	70°	21052.2	11227.2	2442.5	1569.3	1714.0	1913.6	2218.0	1898.6	1447.1	1284.9
24265.7	72.5°	18055.8	8787.1	1773.9	1279.9	1427.1	1686.6	2043.3	1768.9	1322.3	1182.6
17933.6	75°	12898.8	5561.2	1202.6	983.0	1110.2	1429.6	1826.3	1616.7	1207.5	1187.6
8981.7	77.5°	6589.1	2657.1	795.9	718.5	773.4	1127.7	1534.4	1444.6	1225.0	980.5
2554.8	80°	2143.1	980.5	501.5	489.0	514.0	751.0	1187.6	1185.1	928.1	666.1
618.7	82.5°	683.6	421.6	326.8	314.4	301.9	471.5	828.3	938.1	626.2	421.6
222.0	85°	271.9	252.0	192.1	177.1	127.2	222.0	434.1	623.7	466.6	304.4
57.4	87.5°	99.8	99.8	52.4	37.4	27.4	74.8	117.3	187.1	267.0	157.2
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°
6796.2
7322.6
7574.6
7524.7
7145.5
6529.2
5908.0
5443.9
5172.0
5064.7
5002.3
4940.0
4737.9
4276.3
3714.9
3193.5
2779.4
2497.4
2489.9
2467.5
2300.3
2008.4
1841.3
1771.4
1714.0
1589.3
1504.4
1407.1
1299.9
1175.1
1120.2
873.2
588.8
419.1
311.9
154.7
0.0

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