

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: P943712

Luminaire Tested: **GALN-SB8B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39249 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

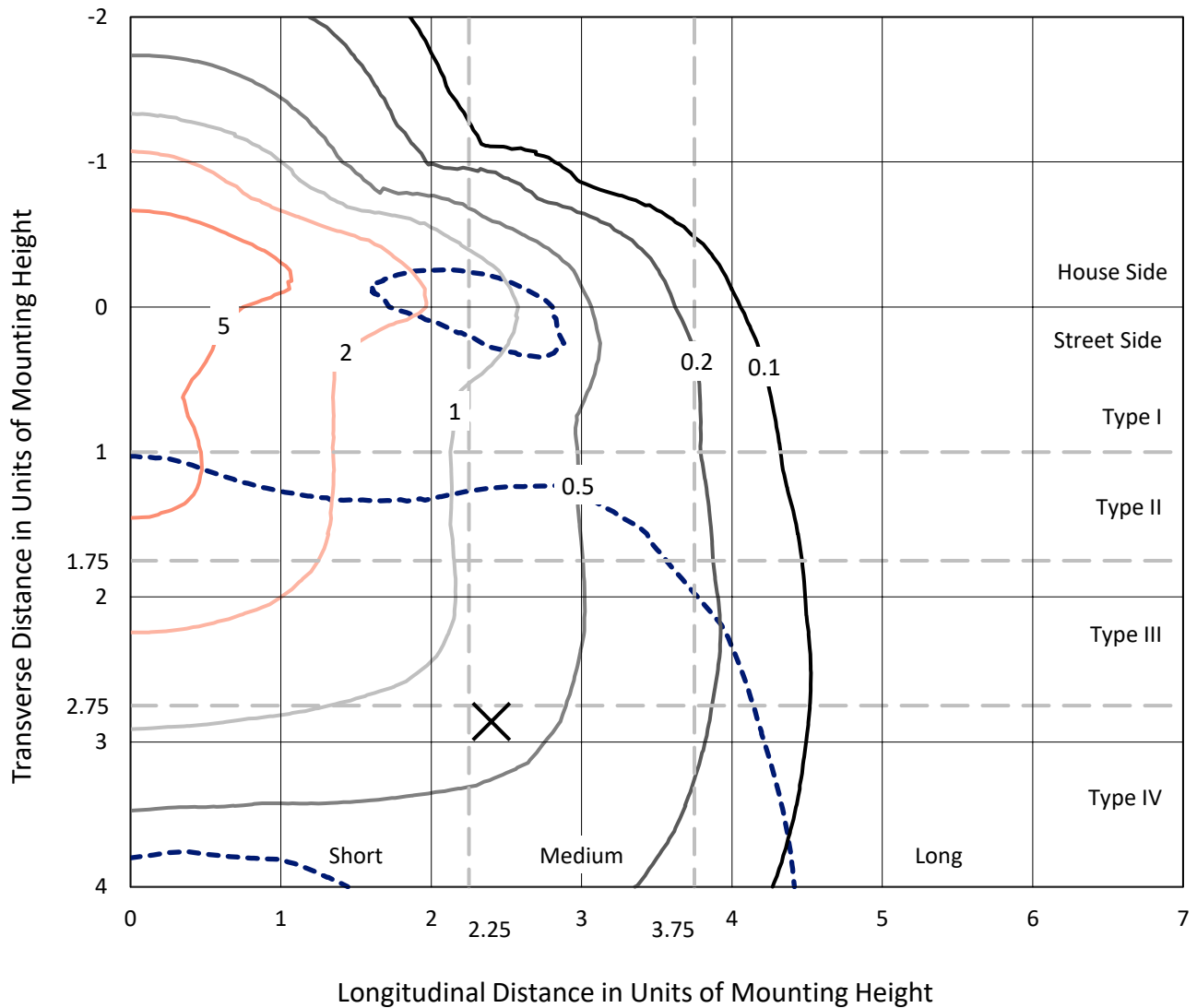
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

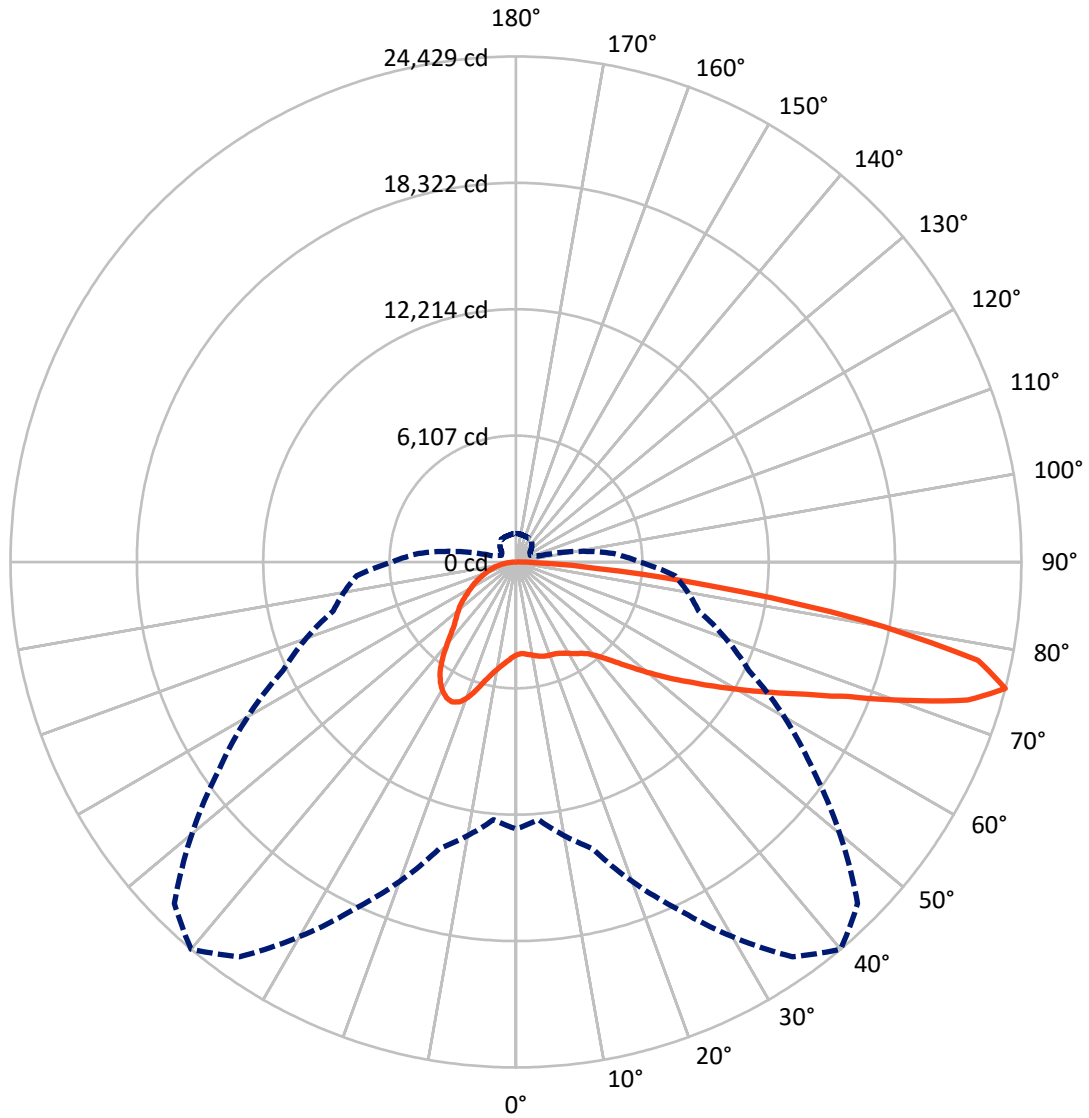
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12160.7	0.0	12160.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27088.4	0.0	27088.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	39249.0	0.0	39249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.1
10°-20°	1504.2	3.8
20°-30°	2746.5	7.0
30°-40°	3895.3	9.9
40°-50°	5259.8	13.4
50°-60°	7075.8	18.0
60°-70°	8980.8	22.9
70°-80°	8150.6	20.8
80°-90°	1188.1	3.0
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°	39249.0	100.0
0°-180°	39249.0	100.0

Coefficient of Utilization



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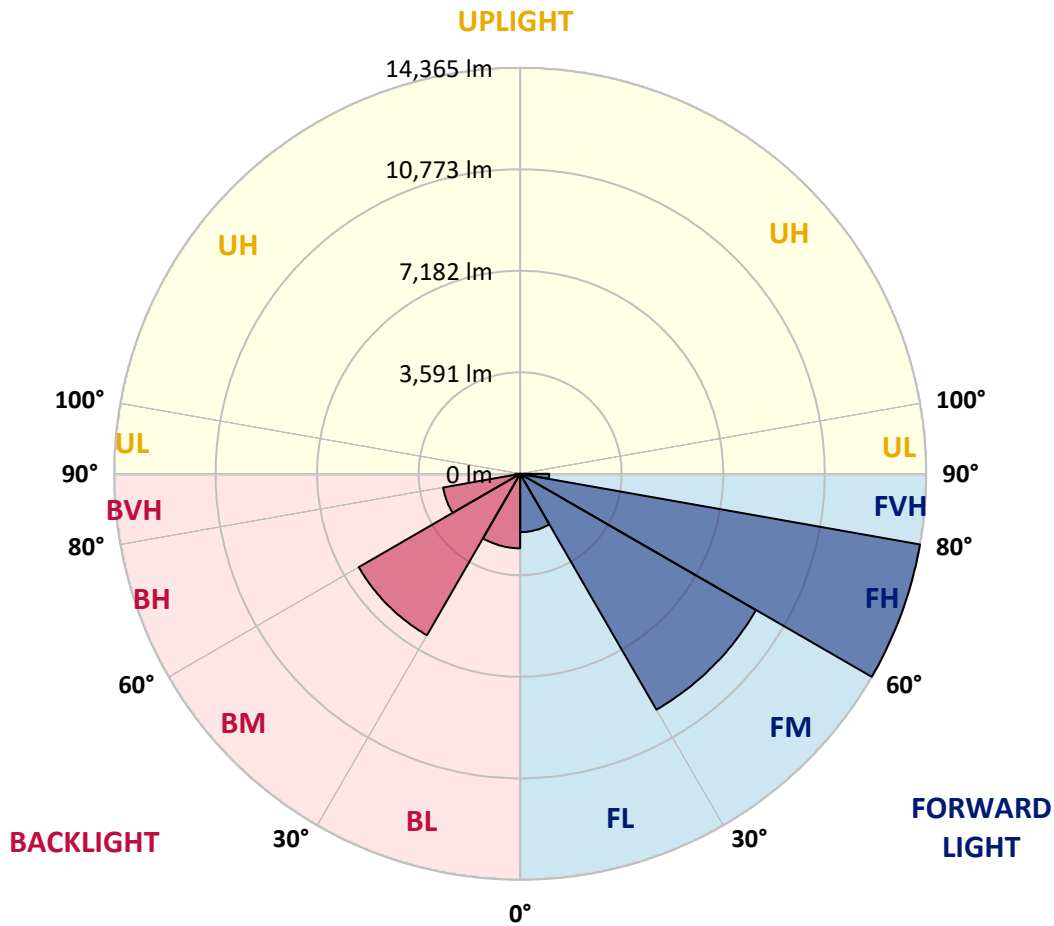
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2064.5	5.3			
FM (30°-60°)	9634.7	24.5			
FH (60°-80°)	14364.5	36.6			G5
FVH (80°-90°)	1024.5	2.6			G5
BL (0°-30°)	2634.1	6.7	B4/5000		
BM (30°-60°)	6596.1	16.8	B4/8500		
BH (60°-80°)	2766.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	163.6	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2
2.5°	4419.5	4444.5	4438.2	4429.9	4429.9	4432.0	4429.9	4444.5	4459.0	4473.6
5°	4465.3	4490.3	4477.8	4467.4	4459.0	4456.9	4450.7	4448.6	4456.9	4475.7
7.5°	4554.8	4579.8	4561.0	4542.3	4525.6	4517.3	4509.0	4496.5	4490.3	4500.7
10°	4654.7	4679.7	4656.8	4623.5	4596.4	4586.0	4577.7	4565.2	4556.9	4563.1
12.5°	4754.6	4779.6	4748.4	4702.6	4667.2	4661.0	4650.5	4646.4	4644.3	4642.2
15°	4848.3	4869.1	4829.6	4775.5	4738.0	4727.6	4717.2	4723.4	4733.8	4746.3
17.5°	4921.2	4942.0	4883.7	4812.9	4777.5	4773.4	4767.1	4787.9	4817.1	4848.3
20°	4987.8	5008.6	4933.7	4837.9	4796.3	4796.3	4798.4	4842.1	4883.7	4929.5
22.5°	5081.5	5098.1	5006.5	4875.4	4815.0	4819.2	4835.8	4879.5	4931.6	4994.0
25°	5220.9	5233.4	5121.0	4946.2	4877.5	4889.9	4904.5	4925.3	4975.3	5048.2
27.5°	5445.8	5456.2	5308.4	5071.1	4967.0	4987.8	5008.6	4994.0	5016.9	5079.4
30°	5762.2	5768.4	5581.1	5266.7	5118.9	5129.3	5133.5	5073.1	5029.4	5079.4
32.5°	6136.9	6134.8	5912.1	5504.1	5291.7	5281.3	5245.9	5127.3	5025.3	5069.0
35°	6717.7	6694.8	6407.5	5837.1	5487.4	5422.9	5339.6	5187.6	5046.1	5058.6
37.5°	7679.4	7608.7	7211.1	6382.5	5778.8	5614.4	5491.6	5285.5	5091.9	5054.4
40°	8764.0	8674.5	8237.3	7129.9	6216.0	5951.6	5753.9	5424.9	5166.8	5073.1
42.5°	10050.5	9923.5	9453.1	8010.4	6769.7	6386.7	6089.0	5601.9	5277.1	5133.5
45°	11630.5	11461.9	10795.8	9003.4	7467.1	6957.1	6559.5	5870.4	5445.8	5250.1
47.5°	13227.2	13268.8	12321.7	10140.0	8304.0	7660.7	7148.6	6274.3	5691.4	5437.4
50°	14923.8	14953.0	13839.2	11399.5	9253.2	8455.9	7810.6	6726.0	6032.8	5703.9
52.5°	16247.8	16251.9	15217.3	12717.2	10242.0	9330.2	8524.6	7242.3	6428.3	6057.8
55°	17076.3	17065.9	16183.2	13964.1	11378.6	10248.3	9315.7	7829.3	6911.3	6474.1
57.5°	17677.9	17646.7	16849.4	15036.2	12590.2	11332.9	10210.8	8495.5	7481.7	6969.6
60°	17906.9	17888.2	17301.1	15962.6	13864.2	12531.9	11243.3	9240.7	8129.1	7554.5
62.5°	17994.3	18029.7	17744.5	16859.8	15227.7	13860.1	12377.9	10131.7	8857.7	8216.5
65°	18302.4	18367.0	18308.7	18033.9	16768.2	15415.1	13883.0	11191.3	9652.9	8926.4
67.5°	18912.4	18976.9	19001.9	19439.0	18650.1	17353.2	15760.7	12511.1	10583.4	9663.3
70°	18897.8	18879.1	19320.4	20556.9	21006.6	20036.5	18292.0	14134.8	11693.0	10275.3
72.5°	17201.2	17051.3	18094.3	20544.4	22967.6	22838.5	21383.4	16229.0	12650.6	10350.3
75°	12904.5	12504.9	14347.2	18514.8	23294.4	24428.9	23348.5	17528.0	12423.7	9145.0
77.5°	5518.6	5116.9	7288.1	13706.0	20848.4	22836.4	21545.7	15292.3	9917.3	6047.4
80°	1444.7	1442.6	2202.5	6213.9	14178.6	16864.0	14794.7	9875.7	5666.4	2160.8
82.5°	597.5	582.9	809.8	2416.9	6927.9	9463.5	7723.2	4404.9	2046.3	585.0
85°	222.7	220.7	393.4	834.8	2443.9	3903.2	2824.9	1126.2	510.0	285.2
87.5°	62.5	60.4	85.4	289.4	595.4	903.5	483.0	185.3	143.6	112.4
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°
4488.2	0°	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2	4488.2
4496.5	2.5°	4502.7	4513.2	4531.9	4546.5	4565.2	4586.0	4615.2	4633.9	4652.6	4665.1
4506.9	5°	4521.5	4544.4	4592.3	4640.1	4696.3	4748.4	4808.8	4852.5	4887.9	4898.3
4544.4	7.5°	4563.1	4600.6	4681.8	4763.0	4852.5	4937.8	5025.3	5100.2	5160.6	5183.5
4611.0	10°	4636.0	4685.9	4800.4	4914.9	5033.6	5164.7	5277.1	5385.4	5470.7	5506.1
4690.1	12.5°	4727.6	4790.0	4939.9	5098.1	5262.6	5443.7	5589.4	5722.6	5828.8	5876.7
4800.4	15°	4846.2	4927.4	5118.9	5331.3	5572.7	5824.6	6009.9	6157.7	6276.4	6334.7
4914.9	17.5°	4975.3	5083.5	5325.0	5645.6	5991.2	6322.2	6538.7	6646.9	6769.7	6825.9
5021.1	20°	5100.2	5233.4	5579.0	6045.3	6505.4	6857.2	7032.0	7061.2	7069.5	7075.7
5121.0	22.5°	5229.3	5408.3	5897.5	6549.1	7042.4	7286.0	7311.0	7186.1	7011.2	6930.0
5218.9	25°	5370.8	5608.1	6313.8	7104.9	7504.6	7533.7	7342.2	7038.3	6707.3	6555.3
5298.0	27.5°	5508.2	5839.2	6813.5	7635.7	7837.7	7581.6	7169.4	6738.5	6338.8	6178.5
5354.2	30°	5645.6	6103.6	7365.1	8099.9	7989.6	7462.9	6896.7	6415.8	6014.1	5845.5
5404.1	32.5°	5785.1	6411.7	8000.0	8435.1	7962.6	7211.1	6557.4	6053.6	5699.7	5522.8
5447.8	35°	5943.3	6790.6	8601.6	8618.3	7781.4	6840.5	6109.8	5620.6	5312.5	5171.0
5499.9	37.5°	6149.4	7271.4	9132.5	8664.1	7465.0	6297.2	5554.0	5108.5	4854.6	4790.0
5576.9	40°	6405.4	7850.1	9538.4	8591.2	6996.6	5637.3	4946.2	4590.2	4446.5	4461.1
5681.0	42.5°	6738.5	8497.6	9823.6	8403.9	6345.1	4956.6	4413.2	4255.0	4323.7	4382.0
5837.1	45°	7171.5	9170.0	10000.6	8085.4	5608.1	4379.9	4098.9	4136.4	4188.4	4194.7
6089.0	47.5°	7725.2	9850.7	10117.1	7604.5	4856.6	3974.0	3899.1	3907.4	3897.0	3853.3
6465.8	50°	8416.4	10512.7	10221.2	6967.5	4217.6	3720.0	3620.1	3591.0	3447.3	3305.8
6967.5	52.5°	9203.3	11120.5	10264.9	6176.4	3720.0	3507.7	3345.3	3162.1	2893.6	2849.9
7598.3	55°	10077.6	11682.6	10152.5	5204.3	3301.6	3235.0	2989.3	2768.7	2739.5	2702.1
8428.9	57.5°	11122.6	12288.4	9923.5	4119.7	2872.8	2916.5	2677.1	2702.1	2650.0	2591.7
9496.8	60°	12265.5	12915.0	9521.8	3130.9	2429.4	2518.9	2595.9	2593.8	2579.2	2531.4
10623.0	62.5°	13293.8	13327.1	8730.7	2398.1	2040.1	2210.8	2421.0	2419.0	2406.5	2379.4
11799.2	65°	13905.8	13264.7	7410.9	1888.1	1719.5	1956.8	2183.7	2200.4	2202.5	2200.4
12683.9	67.5°	13797.6	12534.0	5599.8	1503.0	1455.1	1698.7	1948.5	1971.4	1988.0	1992.2
12796.3	70°	12573.6	10929.0	3651.3	1199.1	1219.9	1471.8	1725.7	1748.6	1763.2	1779.9
11103.9	72.5°	9800.7	8035.4	2090.0	970.1	1013.8	1276.1	1505.1	1532.1	1540.5	1571.7
7727.3	75°	5972.4	4725.5	1128.3	764.0	832.7	1090.8	1286.5	1317.7	1332.3	1369.8
3795.0	77.5°	2839.5	2046.3	643.2	595.4	670.3	891.0	1086.7	1122.0	1082.5	1103.3
1047.1	80°	959.7	759.8	405.9	453.8	512.1	695.3	870.2	905.5	822.3	818.1
347.6	82.5°	335.2	308.1	258.1	301.8	331.0	497.5	657.8	703.6	612.0	609.9
156.1	85°	131.1	124.9	143.6	164.5	197.8	306.0	433.0	455.9	376.8	303.9
45.8	87.5°	27.1	29.1	35.4	37.5	60.4	106.2	156.1	191.5	152.0	129.1
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>
4488.2
4656.8
4902.4
5185.5
5508.2
5876.7
6330.5
6823.9
7092.4
6952.9
6578.2
6197.3
5864.2
5545.7
5202.2
4835.8
4511.1
4436.1
4236.3
3886.6
3324.5
2864.4
2708.3
2581.3
2514.7
2369.0
2200.4
1996.4
1788.2
1584.2
1373.9
1086.7
809.8
580.8
299.8
118.7
0.0

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