

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: P943882

Luminaire Tested: **GALN-SB8C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943882
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-SB8C-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52199 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

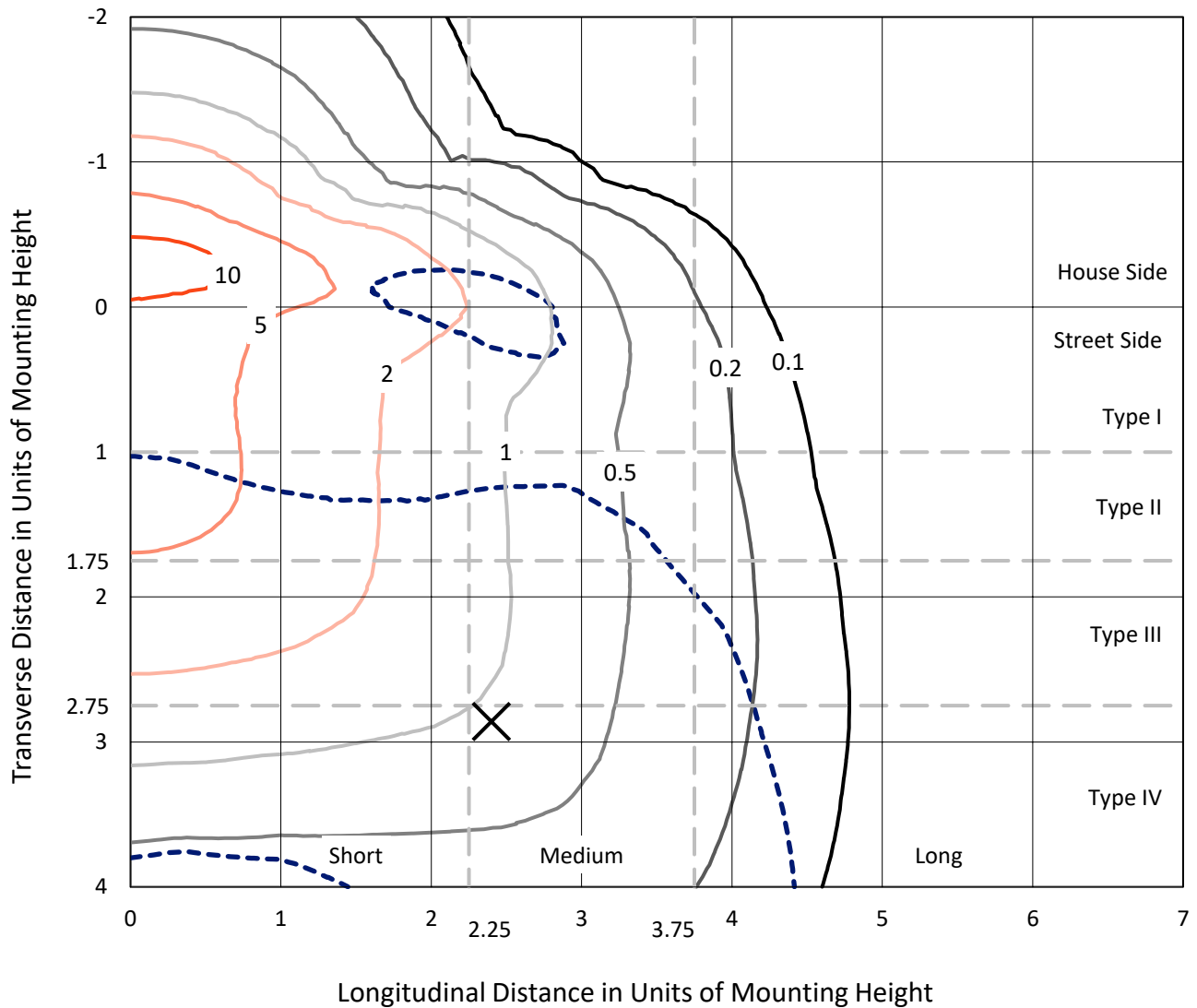
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

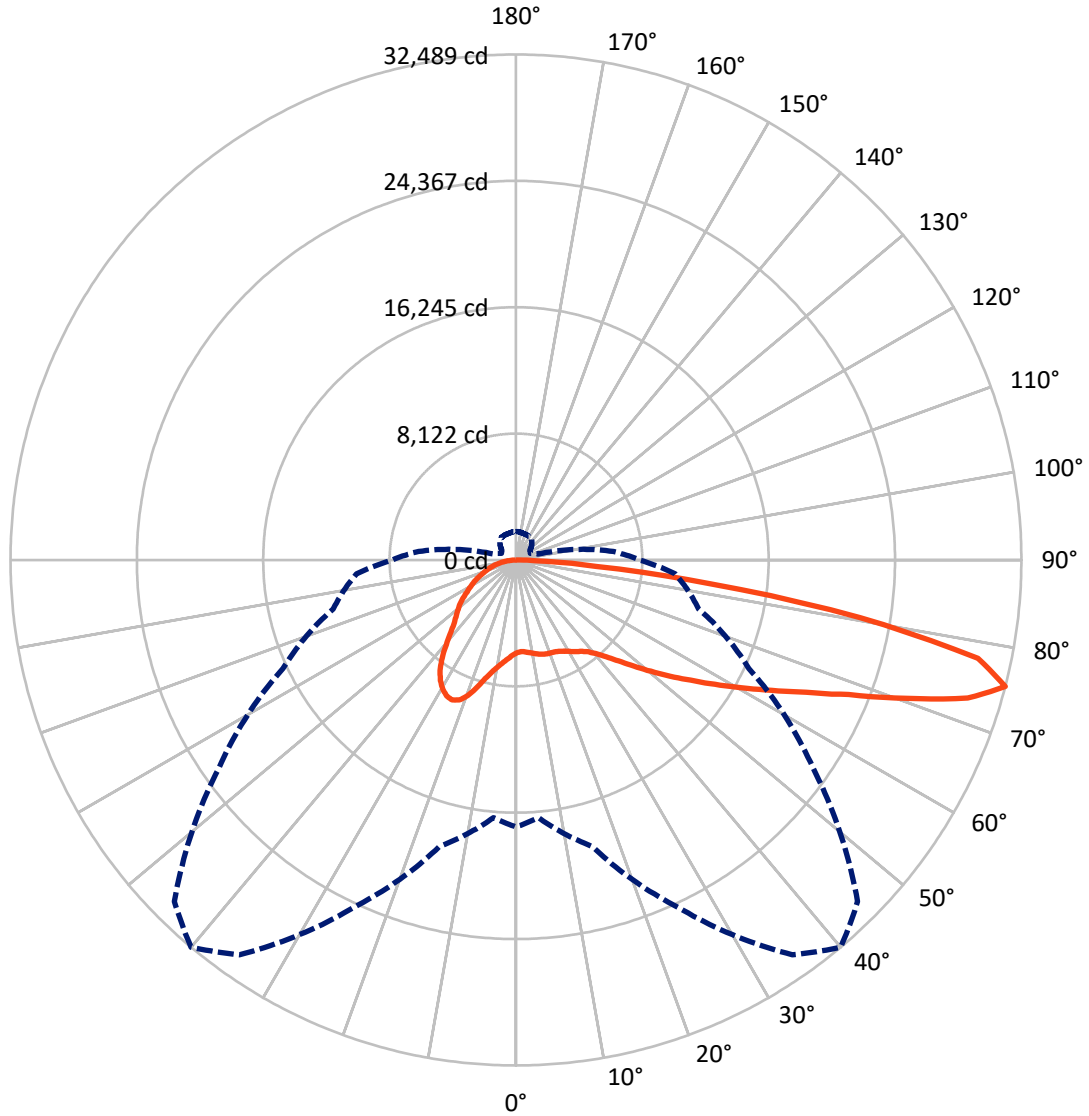
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	16173.0	0.0	16173.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	36026.0	0.0	36026.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	52199.0	0.0	52199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.8	1.1
10°-20°	2000.5	3.8
20°-30°	3652.7	7.0
30°-40°	5180.5	9.9
40°-50°	6995.2	13.4
50°-60°	9410.4	18.0
60°-70°	11944.0	22.9
70°-80°	10839.9	20.8
80°-90°	1580.1	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°	52199.0	100.0
0°-180°	52199.0	100.0

Coefficient of Utilization



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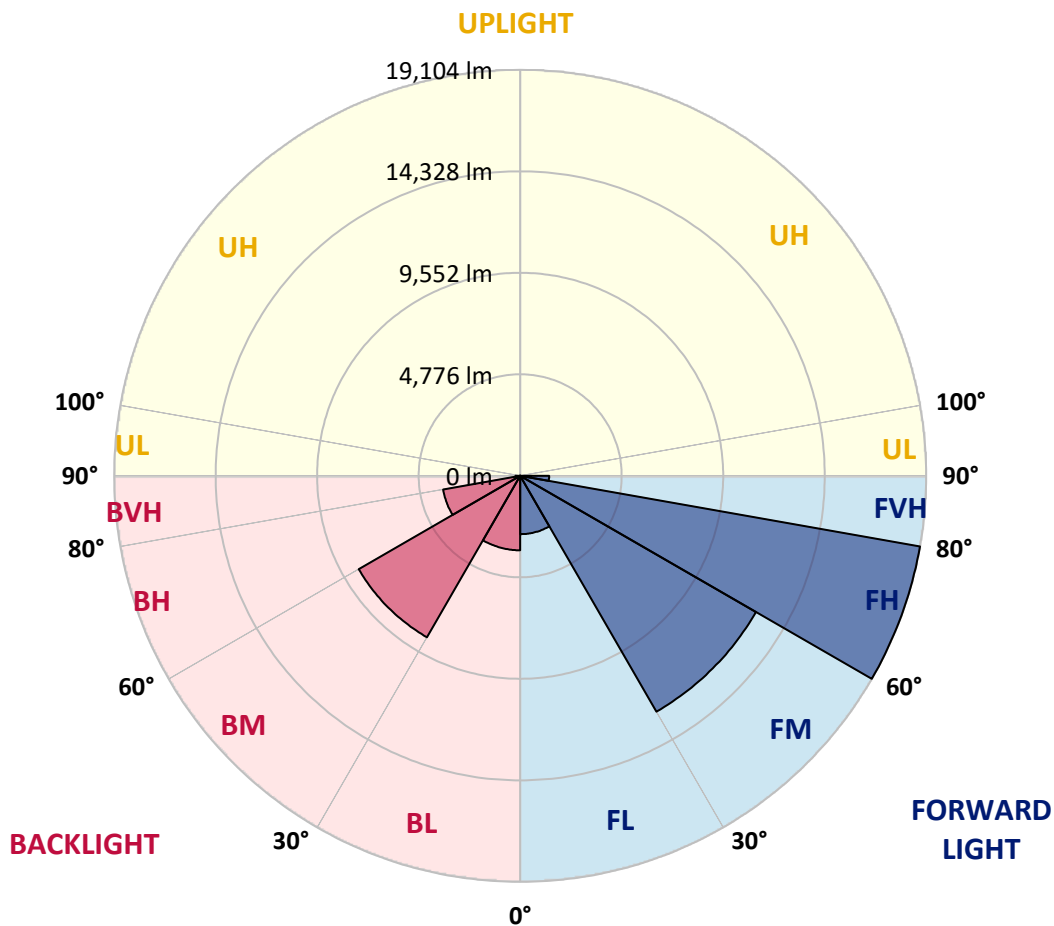
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.7	5.3			
FM (30°-60°)	12813.7	24.5			
FH (60°-80°)	19104.0	36.6			G5
FVH (80°-90°)	1362.6	2.6			G5
BL (0°-30°)	3503.2	6.7	B4/5000		
BM (30°-60°)	8772.4	16.8	B5		
BH (60°-80°)	3679.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	217.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0
2.5°	5877.7	5910.9	5902.6	5891.5	5891.5	5894.3	5891.5	5910.9	5930.3	5949.6
5°	5938.6	5971.8	5955.2	5941.3	5930.3	5927.5	5919.2	5916.4	5927.5	5952.4
7.5°	6057.6	6090.8	6065.9	6041.0	6018.9	6007.8	5996.7	5980.1	5971.8	5985.6
10°	6190.5	6223.7	6193.3	6149.0	6113.0	6099.1	6088.1	6071.5	6060.4	6068.7
12.5°	6323.4	6356.6	6315.1	6254.2	6207.1	6198.8	6185.0	6179.4	6176.7	6173.9
15°	6448.0	6475.7	6423.1	6351.1	6301.3	6287.4	6273.6	6281.9	6295.7	6312.3
17.5°	6544.9	6572.6	6495.1	6400.9	6353.9	6348.3	6340.0	6367.7	6406.5	6448.0
20°	6633.5	6661.2	6561.5	6434.1	6378.8	6378.8	6381.5	6439.7	6495.1	6556.0
22.5°	6758.1	6780.2	6658.4	6484.0	6403.7	6409.2	6431.4	6489.5	6558.7	6641.8
25°	6943.6	6960.2	6810.7	6578.1	6486.7	6503.4	6522.7	6550.4	6616.9	6713.8
27.5°	7242.6	7256.4	7059.8	6744.2	6605.8	6633.5	6661.2	6641.8	6672.2	6755.3
30°	7663.4	7671.7	7422.5	7004.5	6807.9	6821.7	6827.3	6747.0	6688.9	6755.3
32.5°	8161.7	8159.0	7862.7	7320.1	7037.7	7023.8	6976.8	6819.0	6683.3	6741.5
35°	8934.2	8903.7	8521.6	7763.1	7297.9	7212.1	7101.4	6899.3	6711.0	6727.6
37.5°	10213.2	10119.1	9590.3	8488.4	7685.5	7466.8	7303.5	7029.4	6771.9	6722.1
40°	11655.7	11536.6	10955.2	9482.3	8266.9	7915.3	7652.3	7214.9	6871.6	6747.0
42.5°	13366.6	13197.7	12572.1	10653.4	9003.4	8494.0	8098.1	7450.2	7018.3	6827.3
45°	15468.0	15243.7	14357.8	11974.0	9930.8	9252.5	8723.7	7807.4	7242.6	6982.3
47.5°	17591.5	17646.8	16387.1	13485.7	11043.8	10188.3	9507.3	8344.5	7569.3	7231.5
50°	19847.8	19886.6	18405.4	15160.7	12306.3	11245.9	10387.7	8945.2	8023.3	7585.9
52.5°	21608.6	21614.2	20238.2	16913.2	13621.3	12408.7	11337.3	9631.8	8549.3	8056.5
55°	22710.5	22696.7	21522.8	18571.5	15133.0	13629.6	12389.3	10412.6	9191.6	8610.2
57.5°	23510.7	23469.1	22408.8	19997.3	16744.3	15072.1	13579.8	11298.5	9950.2	9269.2
60°	23815.2	23790.3	23009.5	21229.4	18438.6	16666.8	14953.0	12289.7	10811.2	10047.1
62.5°	23931.5	23978.5	23599.2	22422.6	20252.0	18433.1	16461.9	13474.6	11780.2	10927.5
65°	24341.2	24427.0	24349.5	23984.1	22300.8	20501.2	18463.6	14883.8	12837.8	11871.6
67.5°	25152.4	25238.2	25271.5	25852.9	24803.6	23078.8	20960.8	16639.1	14075.4	12851.7
70°	25133.0	25108.1	25695.0	27339.6	27937.6	26647.4	24327.4	18798.6	15551.0	13665.6
72.5°	22876.6	22677.3	24064.4	27323.0	30545.6	30373.9	28438.7	21583.7	16824.6	13765.3
75°	17162.3	16630.8	19080.9	24623.6	30980.2	32489.1	31052.2	23311.3	16522.8	12162.3
77.5°	7339.5	6805.1	9692.7	18228.2	27727.2	30371.2	28654.6	20337.9	13189.4	8042.7
80°	1921.4	1918.6	2929.1	8264.2	18856.7	22428.1	19676.2	13134.1	7536.0	2873.8
82.5°	794.6	775.2	1077.0	3214.3	9213.8	12585.9	10271.4	5858.3	2721.5	778.0
85°	296.2	293.5	523.3	1110.2	3250.3	5191.1	3756.9	1497.8	678.3	379.3
87.5°	83.1	80.3	113.5	384.8	791.8	1201.6	642.3	246.4	191.0	149.5
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°
5969.0	0°	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0
5980.1	2.5°	5988.4	6002.2	6027.2	6046.5	6071.5	6099.1	6137.9	6162.8	6187.7	6204.4
5993.9	5°	6013.3	6043.8	6107.5	6171.1	6245.9	6315.1	6395.4	6453.5	6500.6	6514.4
6043.8	7.5°	6068.7	6118.5	6226.5	6334.5	6453.5	6567.0	6683.3	6783.0	6863.3	6893.7
6132.4	10°	6165.6	6232.0	6384.3	6536.6	6694.4	6868.8	7018.3	7162.3	7275.8	7322.9
6237.6	12.5°	6287.4	6370.5	6569.8	6780.2	6998.9	7239.8	7433.6	7610.8	7752.0	7815.7
6384.3	15°	6445.2	6553.2	6807.9	7090.3	7411.4	7746.4	7992.8	8189.4	8347.2	8424.7
6536.6	17.5°	6616.9	6760.8	7082.0	7508.3	7967.9	8408.1	8696.1	8840.0	9003.4	9078.1
6677.8	20°	6783.0	6960.2	7419.8	8039.9	8651.8	9119.7	9352.2	9391.0	9402.0	9410.4
6810.7	22.5°	6954.6	7192.7	7843.3	8709.9	9366.1	9690.0	9723.2	9557.1	9324.5	9216.6
6940.8	25°	7142.9	7458.5	8397.1	9449.1	9980.7	10019.4	9764.7	9360.5	8920.3	8718.2
7046.0	27.5°	7325.6	7765.8	9061.5	10155.1	10423.6	10083.1	9534.9	8961.8	8430.3	8217.1
7120.7	30°	7508.3	8117.4	9795.2	10772.5	10625.8	9925.3	9172.3	8532.7	7998.4	7774.1
7187.2	32.5°	7693.8	8527.2	10639.6	11218.2	10589.8	9590.3	8721.0	8051.0	7580.3	7345.0
7245.3	35°	7904.3	9031.1	11439.7	11461.9	10348.9	9097.5	8125.7	7475.1	7065.4	6877.1
7314.5	37.5°	8178.3	9670.6	12145.7	11522.8	9928.1	8374.9	7386.5	6794.1	6456.3	6370.5
7417.0	40°	8518.9	10440.3	12685.6	11425.9	9305.1	7497.3	6578.1	6104.7	5913.7	5933.0
7555.4	42.5°	8961.8	11301.3	13064.9	11176.7	8438.6	6592.0	5869.4	5658.9	5750.3	5827.8
7763.1	45°	9537.7	12195.5	13300.2	10753.1	7458.5	5825.1	5451.3	5501.1	5570.4	5578.7
8098.1	47.5°	10274.1	13100.8	13455.2	10113.6	6459.1	5285.2	5185.5	5196.6	5182.8	5124.6
8599.2	50°	11193.3	13981.3	13593.7	9266.4	5609.1	4947.4	4814.5	4775.8	4584.7	4396.5
9266.4	52.5°	12239.8	14789.7	13651.8	8214.3	4947.4	4665.0	4449.1	4205.4	3848.3	3790.2
10105.3	55°	13402.6	15537.2	13502.3	6921.4	4390.9	4302.3	3975.7	3682.2	3643.4	3593.6
11209.9	57.5°	14792.4	16342.8	13197.7	5479.0	3820.6	3878.8	3560.4	3593.6	3524.4	3446.9
12630.2	60°	16312.4	17176.2	12663.4	4163.9	3230.9	3350.0	3452.4	3449.6	3430.3	3366.6
14128.0	62.5°	17680.1	17724.4	11611.4	3189.4	2713.2	2940.2	3219.8	3217.1	3200.5	3164.5
15692.2	65°	18494.0	17641.3	9856.1	2511.1	2286.8	2602.5	2904.2	2926.4	2929.1	2926.4
16868.9	67.5°	18350.0	16669.5	7447.4	1998.9	1935.2	2259.1	2591.4	2621.8	2644.0	2649.5
17018.4	70°	16722.1	14535.0	4856.1	1594.7	1622.4	1957.4	2295.1	2325.6	2345.0	2367.1
14767.5	72.5°	13034.4	10686.7	2779.6	1290.2	1348.3	1697.1	2001.7	2037.7	2048.7	2090.3
10276.9	75°	7943.0	6284.6	1500.6	1016.1	1107.4	1450.7	1711.0	1752.5	1771.9	1821.7
5047.1	77.5°	3776.3	2721.5	855.5	791.8	891.5	1184.9	1445.2	1492.3	1439.7	1467.3
1392.6	80°	1276.3	1010.5	539.9	603.5	681.1	924.7	1157.3	1204.3	1093.6	1088.0
462.4	82.5°	445.7	409.7	343.3	401.4	440.2	661.7	874.9	935.8	814.0	811.2
207.6	85°	174.4	166.1	191.0	218.7	263.0	407.0	575.9	606.3	501.1	404.2
60.9	87.5°	36.0	38.8	47.1	49.8	80.3	141.2	207.6	254.7	202.1	171.7
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°
5969.0
6193.3
6520.0
6896.5
7325.6
7815.7
8419.2
9075.4
9432.5
9247.0
8748.7
8242.0
7799.0
7375.5
6918.6
6431.4
5999.5
5899.8
5634.0
5168.9
4421.4
3809.5
3601.9
3433.0
3344.4
3150.6
2926.4
2655.1
2378.2
2106.9
1827.3
1445.2
1077.0
772.4
398.7
157.8
0.0

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