

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: P943967

Luminaire Tested: **GALN-SB8C-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43912 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

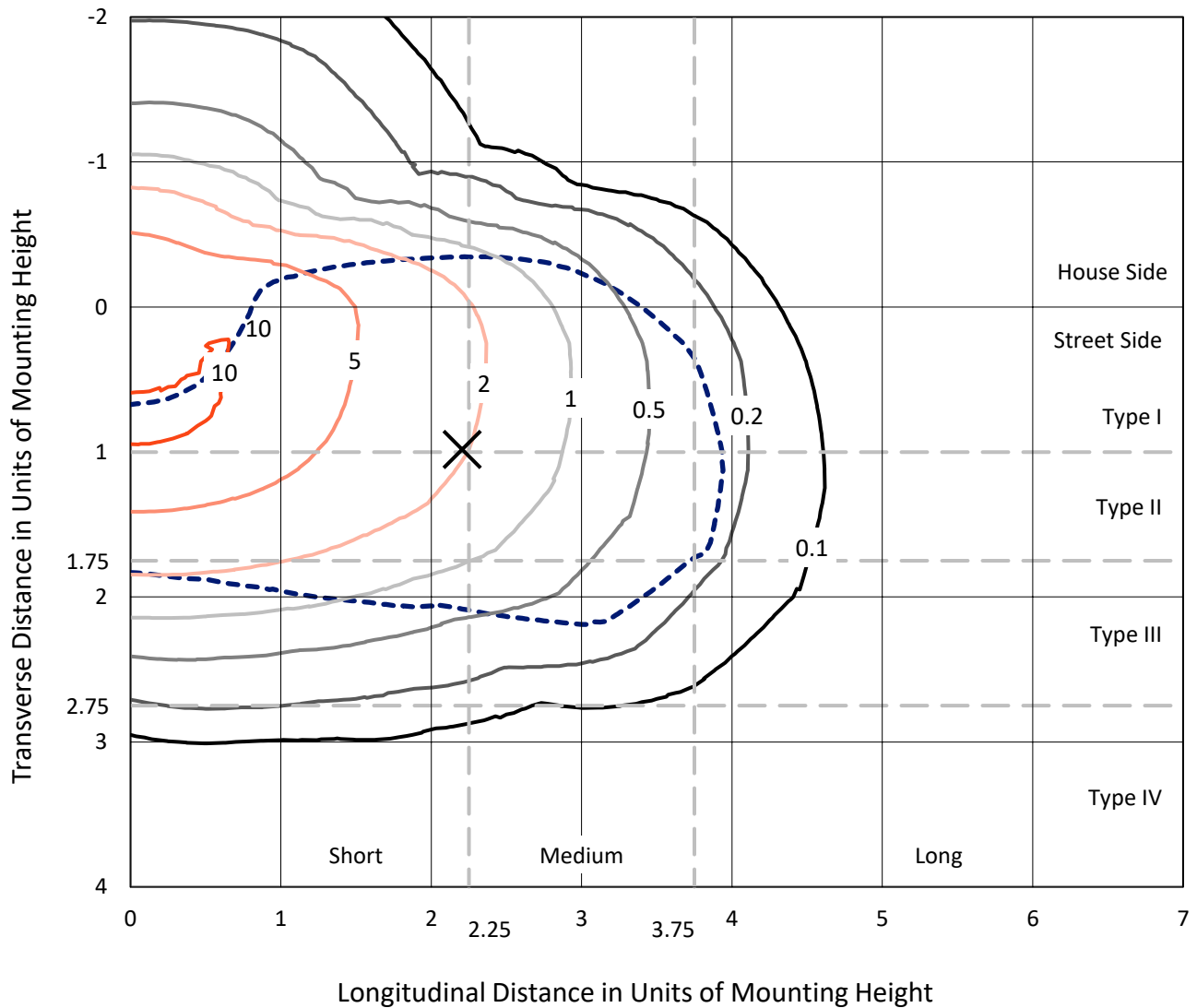
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

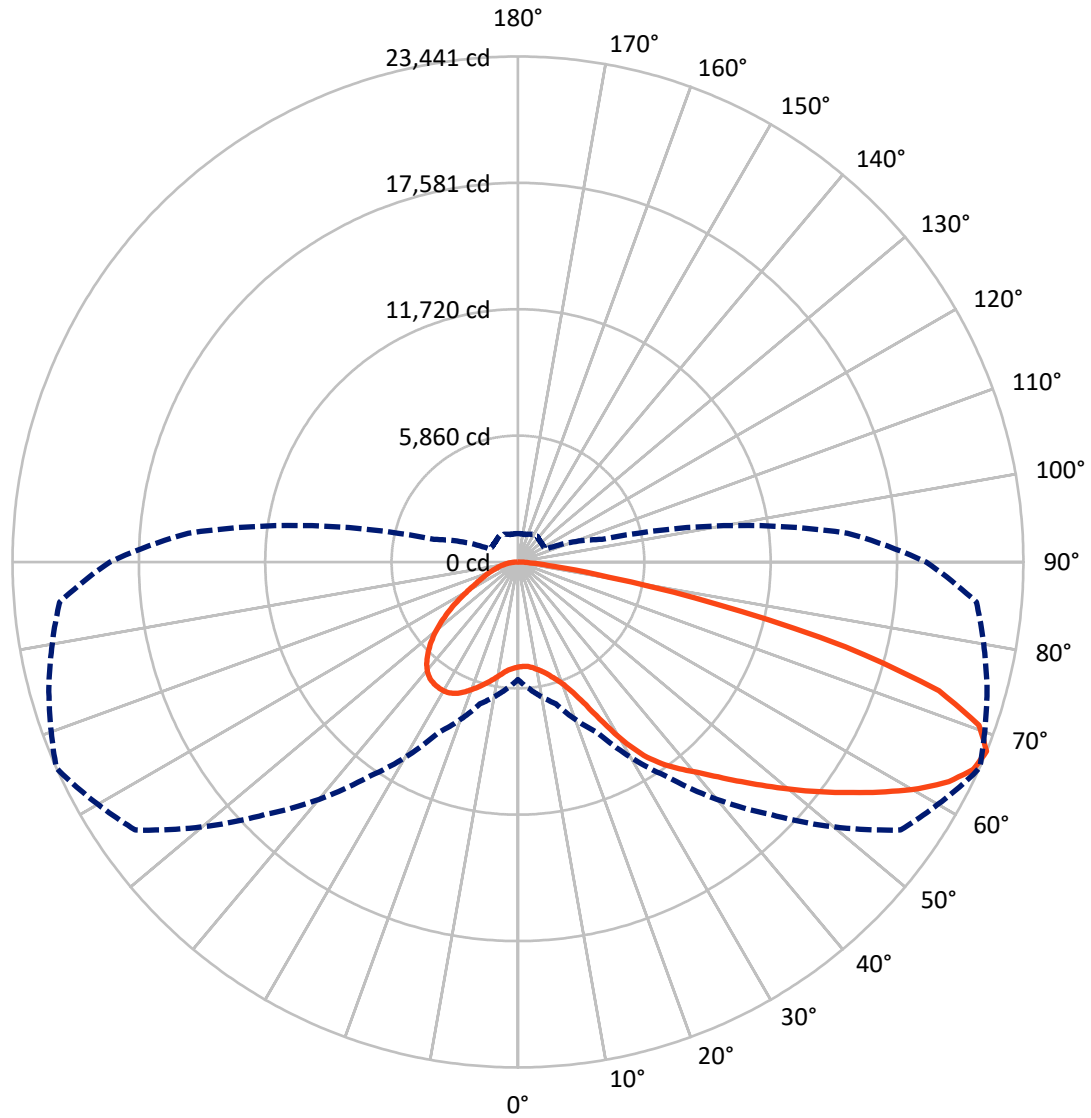
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10918.6	0.0	10918.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	32993.4	0.0	32993.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	43912.0	0.0	43912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	1.1
10°-20°	1595.4	3.6
20°-30°	3075.0	7.0
30°-40°	5391.6	12.3
40°-50°	8015.6	18.3
50°-60°	10160.5	23.1
60°-70°	9941.8	22.6
70°-80°	4742.4	10.8
80°-90°	506.8	1.2
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°	43912.0	100.0
0°-180°	43912.0	100.0

Coefficient of Utilization



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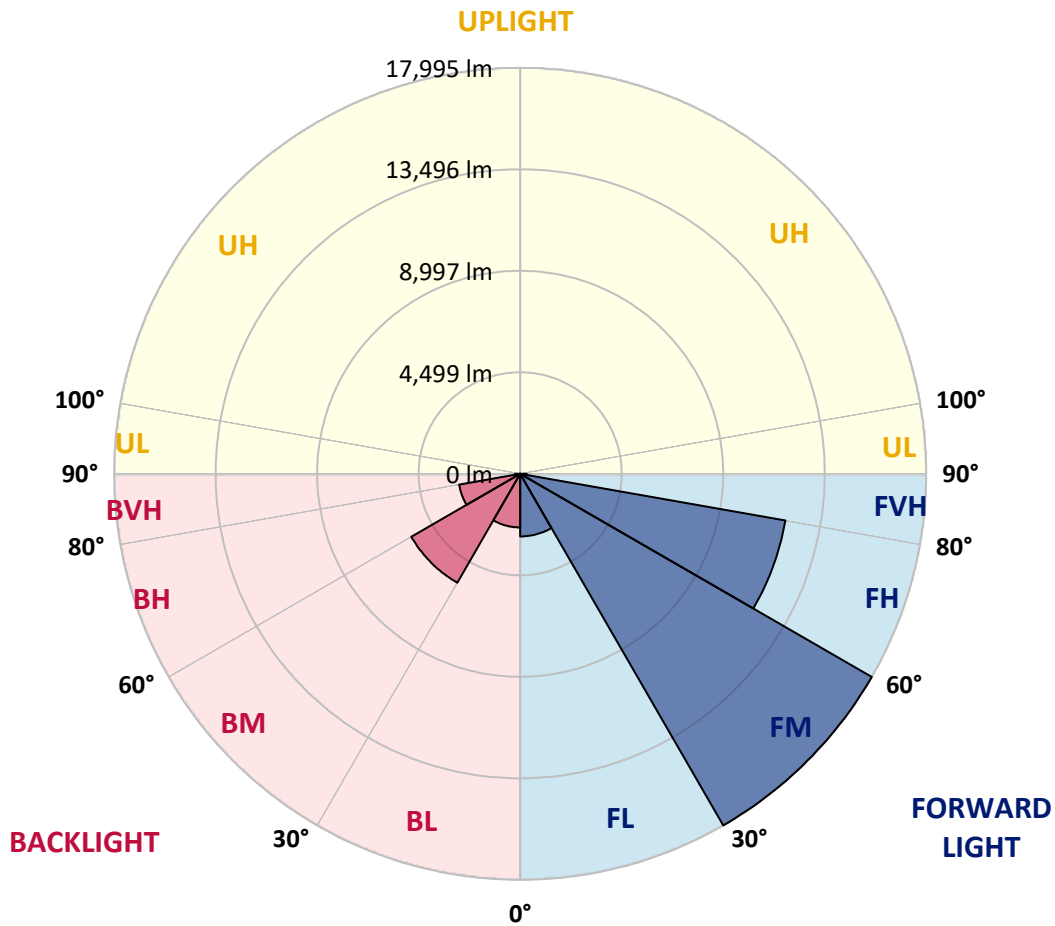
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.8	6.3			
FM (30°-60°)	17994.8	41.0			
FH (60°-80°)	11936.5	27.2			G4/12000
FVH (80°-90°)	287.4	0.7			G3/500
BL (0°-30°)	2378.5	5.4	B3/2500		
BM (30°-60°)	5573.0	12.7	B4/8500		
BH (60°-80°)	2747.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	219.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4
2.5°	4819.7	4847.3	4840.4	4828.9	4826.6	4831.2	4838.1	4845.0	4842.7	4854.3
5°	4805.8	4833.5	4831.2	4831.2	4840.4	4858.9	4870.4	4882.0	4870.4	4884.3
7.5°	4815.0	4835.8	4845.0	4854.3	4877.3	4912.0	4939.6	4965.0	4951.2	4967.3
10°	4932.7	4948.9	4958.1	4958.1	4974.2	5013.5	5041.2	5087.3	5075.8	5101.1
12.5°	5147.3	5163.4	5163.4	5154.2	5165.7	5191.1	5200.3	5251.1	5230.3	5271.9
15°	5410.3	5442.6	5417.2	5401.1	5405.7	5431.1	5428.8	5468.0	5447.2	5481.8
17.5°	5701.0	5742.5	5701.0	5698.7	5689.5	5717.1	5719.5	5754.1	5717.1	5742.5
20°	6044.8	6102.4	6067.8	6079.4	6058.6	6070.1	6081.7	6132.4	6074.8	6093.2
22.5°	6529.3	6598.5	6561.6	6605.4	6591.6	6582.3	6580.0	6670.0	6580.0	6587.0
25°	7235.3	7318.3	7253.7	7313.7	7313.7	7343.7	7378.3	7493.7	7343.7	7299.9
27.5°	8278.1	8361.2	8234.3	8271.2	8259.6	8333.5	8296.6	8582.6	8421.1	8349.6
30°	9533.2	9680.9	9440.9	9431.7	9420.1	9537.8	9590.9	9780.1	9616.3	9544.7
32.5°	10889.8	11044.4	10758.3	10675.2	10631.4	10702.9	10659.1	10811.4	10698.3	10587.6
35°	12324.9	12477.1	12204.9	12043.4	11868.0	11718.1	11561.2	11600.4	11494.3	11325.9
37.5°	13681.5	13960.6	13672.2	13499.2	13176.2	12883.2	12444.8	12262.6	12163.4	12008.8
40°	15063.5	15222.7	15003.5	14855.8	14505.1	14046.0	13344.6	12959.3	12825.5	12675.6
42.5°	16080.9	16233.2	16115.5	16014.0	15739.5	15206.5	14299.8	13817.6	13623.8	13455.4
45°	16888.4	17001.5	16927.7	16964.6	16846.9	16330.1	15289.6	14738.2	14537.4	14332.1
47.5°	17213.7	17333.7	17451.4	17670.6	17871.3	17490.6	16353.2	15734.9	15522.6	15312.6
50°	17176.8	17299.1	17640.6	18106.6	18729.5	18602.7	17474.5	16796.1	16600.0	16360.1
52.5°	16881.5	17019.9	17458.3	18233.5	19225.6	19435.5	18616.5	17892.0	17707.5	17421.4
55°	16106.3	16189.4	16846.9	17945.1	19343.3	20016.9	19735.5	19059.5	18874.9	18475.8
57.5°	14668.9	14788.9	15746.4	17167.6	19047.9	20411.5	20718.3	20286.9	20109.2	19534.7
60°	12793.2	12984.7	14080.6	15861.7	18295.8	20409.2	21611.2	21493.5	21345.9	20577.6
62.5°	10670.6	10892.1	11946.5	14016.0	16980.7	19830.1	22169.5	22504.1	22427.9	21539.7
65°	8195.0	8347.3	9397.1	11628.1	14934.3	18586.5	22234.1	23193.9	23207.8	22271.0
67.5°	5456.4	5894.8	6806.1	8725.7	12193.4	16553.9	21666.6	23307.0	23440.8	22522.5
70°	2662.5	3239.3	4132.1	5671.0	8725.7	13436.9	20183.1	22379.5	22677.1	21788.8
72.5°	1105.1	1292.0	1778.8	2798.6	5008.9	9067.2	17202.2	19864.7	20416.1	19306.3
75°	745.2	807.5	1017.5	1435.1	2281.8	4471.3	12405.6	14812.0	15700.2	14581.3
77.5°	574.5	613.7	740.6	1003.6	1356.6	1691.2	6640.0	8926.4	9385.5	8688.8
80°	452.2	482.2	553.7	731.4	962.1	904.4	2263.3	4044.5	4309.8	3615.3
82.5°	392.2	403.8	396.8	496.0	639.1	528.3	742.9	1492.7	1647.3	1195.1
85°	283.8	316.1	329.9	306.9	339.2	267.6	304.5	528.3	581.4	519.1
87.5°	115.4	170.7	210.0	198.4	124.6	76.1	94.6	154.6	177.7	193.8
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°
4870.4	0°	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4	4870.4
4872.7	2.5°	4875.0	4891.2	4902.7	4916.6	4925.8	4939.6	4967.3	4983.5	4985.8	4997.3
4909.6	5°	4918.9	4941.9	4967.3	5004.2	5045.8	5080.4	5133.4	5170.4	5184.2	5195.7
4999.6	7.5°	5013.5	5045.8	5091.9	5156.5	5216.5	5262.6	5327.2	5371.1	5414.9	5431.1
5142.7	10°	5154.2	5200.3	5267.3	5354.9	5419.5	5479.5	5546.4	5583.3	5627.2	5645.6
5313.4	12.5°	5329.5	5378.0	5465.7	5587.9	5647.9	5689.5	5712.5	5703.3	5712.5	5728.7
5518.7	15°	5530.3	5583.3	5682.5	5814.1	5855.6	5818.7	5767.9	5721.8	5714.8	5719.5
5767.9	17.5°	5767.9	5807.1	5922.5	6033.2	6003.2	5851.0	5740.2	5666.4	5629.5	5617.9
6086.3	20°	6100.1	6100.1	6194.7	6263.9	6063.2	5804.8	5631.8	5511.8	5435.7	5403.4
6520.0	22.5°	6503.9	6467.0	6527.0	6478.5	6051.7	5675.6	5435.7	5228.0	5112.7	5066.5
7126.8	25°	7016.1	6972.2	6956.1	6656.2	5968.6	5470.3	5080.4	4828.9	4727.4	4702.0
8001.2	27.5°	7789.0	7678.2	7468.3	6753.1	5816.4	5147.3	4665.1	4432.1	4374.4	4376.7
9124.8	30°	8818.0	8596.5	8082.0	6769.2	5567.2	4690.5	4240.6	4074.4	4046.8	4058.3
10068.5	32.5°	9770.8	9560.9	8709.5	6695.4	5184.2	4242.9	3859.9	3749.1	3707.6	3721.5
10788.3	35°	10518.4	10460.7	9290.9	6591.6	4713.5	3823.0	3518.4	3423.8	3343.1	3324.6
11466.6	37.5°	11224.3	11201.3	9727.0	6446.2	4247.5	3525.3	3243.9	3119.3	3001.6	2937.0
12216.4	40°	11999.6	11976.5	10013.1	6222.4	3834.5	3266.9	2997.0	2833.2	2687.8	2570.2
13065.5	42.5°	12871.7	12735.5	10149.2	5901.7	3483.8	3047.8	2796.3	2574.8	2383.3	2274.9
14025.2	45°	13824.5	13517.7	10146.9	5493.4	3188.5	2847.0	2581.7	2267.9	2090.3	1988.8
15010.4	47.5°	14835.1	14265.2	10022.3	5041.2	2902.4	2625.6	2249.5	2009.5	1891.9	1829.6
16080.9	50°	15877.9	14964.3	9810.1	4522.0	2609.4	2374.1	2041.8	1878.0	1788.1	1730.4
17142.2	52.5°	16858.4	15598.7	9554.0	3933.7	2311.8	2129.5	1949.6	1822.7	1728.1	1663.5
18171.2	55°	17769.8	16145.5	9191.7	3331.5	2069.5	1965.7	1905.7	1799.6	1691.2	1615.0
19216.4	57.5°	18579.6	16500.8	8566.5	2766.3	1896.5	1852.7	1859.6	1760.4	1635.8	1571.2
20245.4	60°	19253.3	16761.5	7641.3	2242.6	1755.8	1741.9	1788.1	1686.5	1541.2	1467.4
21115.2	62.5°	19657.0	16756.9	6506.2	1836.5	1635.8	1640.4	1693.5	1594.2	1446.6	1377.4
21569.7	65°	19622.4	16346.2	5260.3	1571.2	1520.4	1525.0	1594.2	1492.7	1368.1	1326.6
21341.3	67.5°	18928.0	15344.9	4035.2	1398.1	1393.5	1414.3	1495.0	1423.5	1319.7	1315.1
19980.0	70°	17047.6	13266.2	2907.0	1259.7	1262.0	1292.0	1398.1	1379.7	1294.3	1303.5
16798.5	72.5°	13669.9	10114.6	1951.9	1114.4	1116.7	1165.1	1305.9	1345.1	1268.9	1391.2
11918.8	75°	9104.1	6307.8	1255.1	959.8	962.1	1024.4	1225.1	1278.2	1199.7	1386.6
6201.7	77.5°	4374.4	2835.5	909.0	807.5	807.5	865.2	1059.0	1144.4	1022.1	1077.4
1993.4	80°	1511.2	1065.9	715.2	650.6	636.8	676.0	892.9	992.1	881.3	812.1
650.6	82.5°	595.2	553.7	574.5	505.3	459.1	484.5	694.5	819.0	648.3	586.0
366.8	85°	341.5	359.9	406.1	334.5	265.3	297.6	509.9	588.3	489.1	431.4
120.0	87.5°	92.3	126.9	186.9	173.0	120.0	126.9	242.3	325.3	281.5	216.9
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°
4870.4
4995.0
5193.4
5433.4
5654.9
5733.3
5735.6
5634.1
5396.5
5059.6
4706.6
4383.6
4097.5
3739.9
3338.5
2939.3
2581.7
2281.8
1984.2
1815.7
1709.6
1635.8
1585.0
1529.6
1435.1
1356.6
1324.3
1322.0
1301.2
1409.7
1398.1
987.5
761.4
583.7
440.7
223.8
0.0

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