

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: P942567

Luminaire Tested: **GALN-SB6C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942567
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-SB6C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43469 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

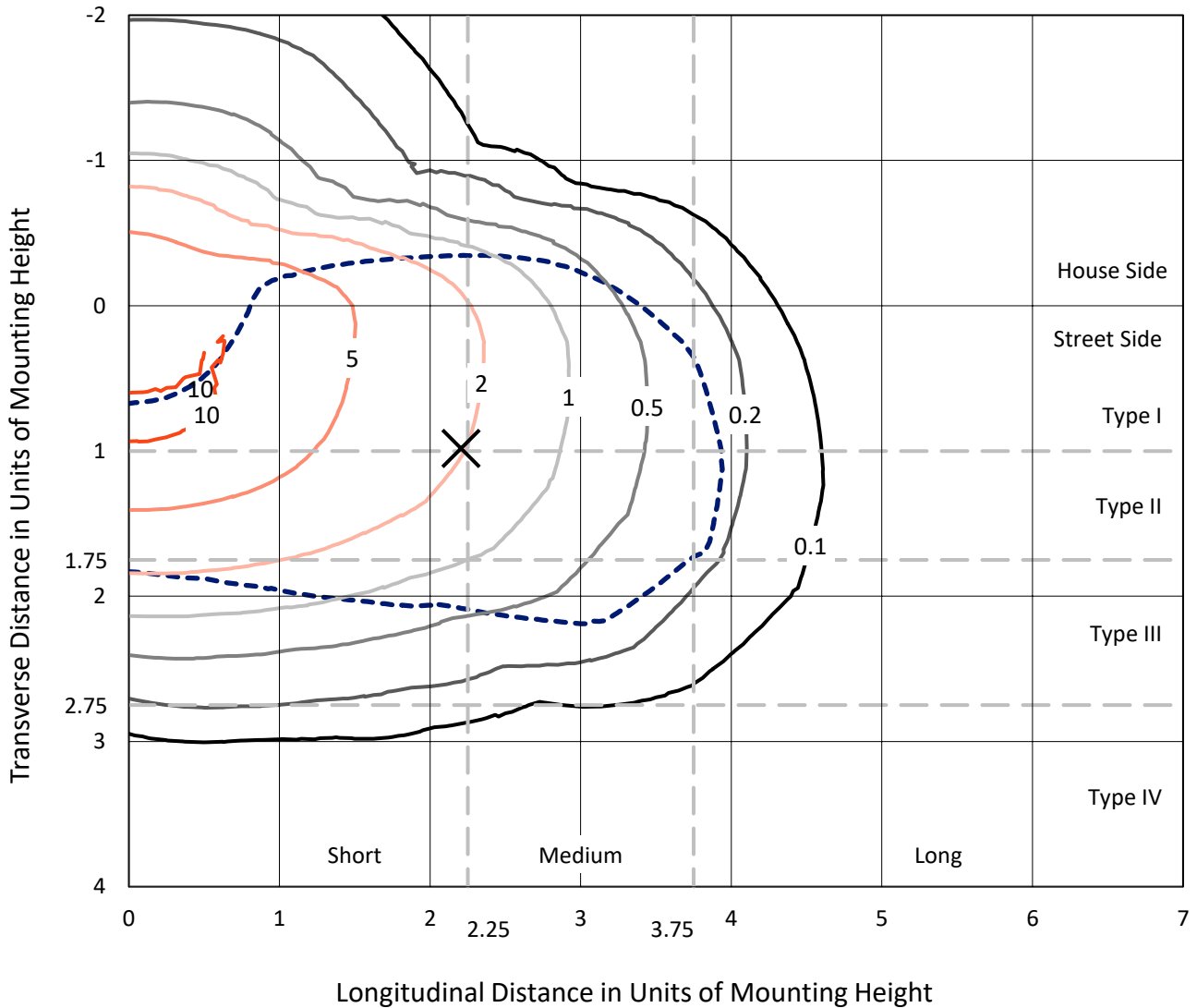
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

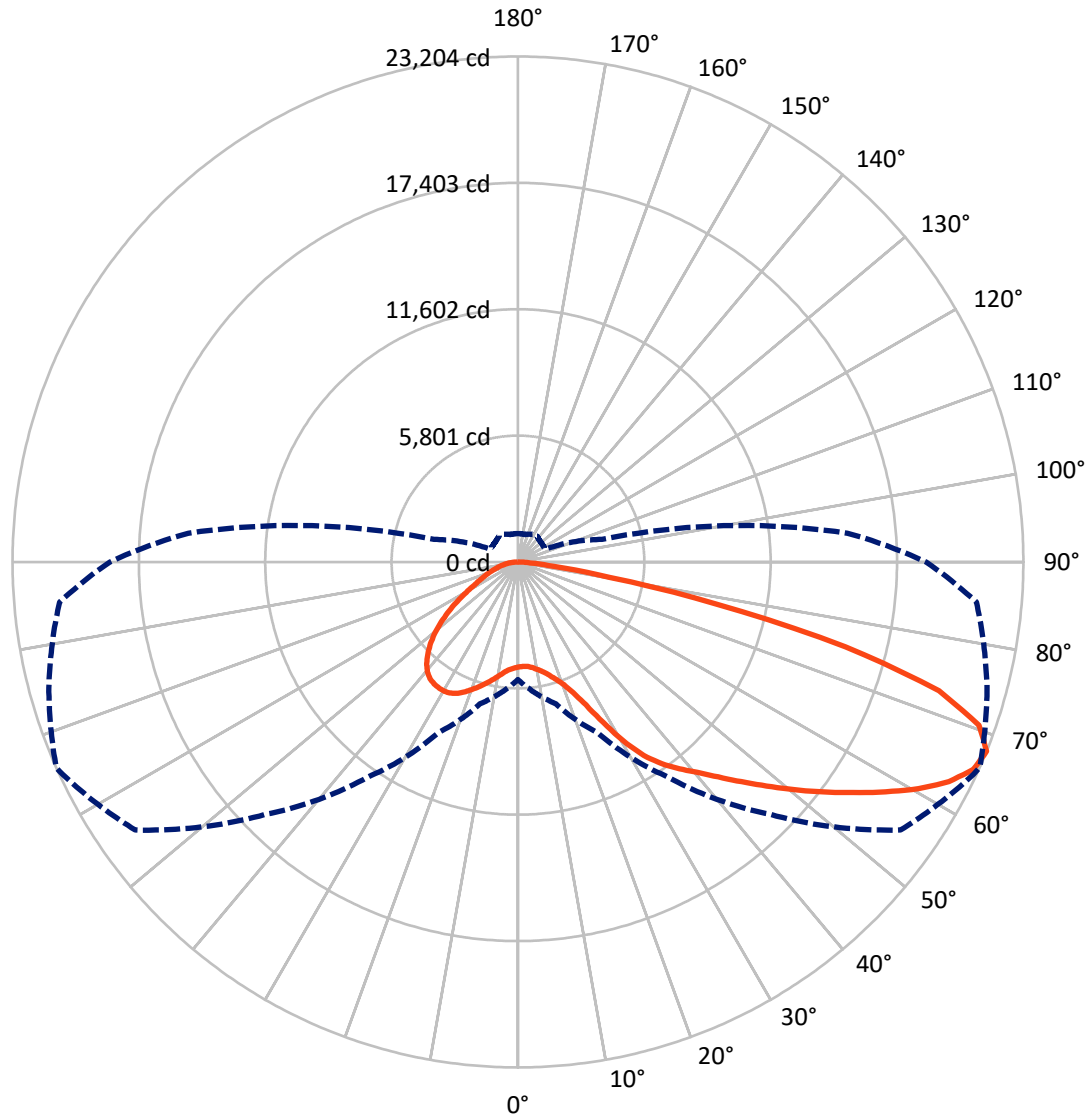
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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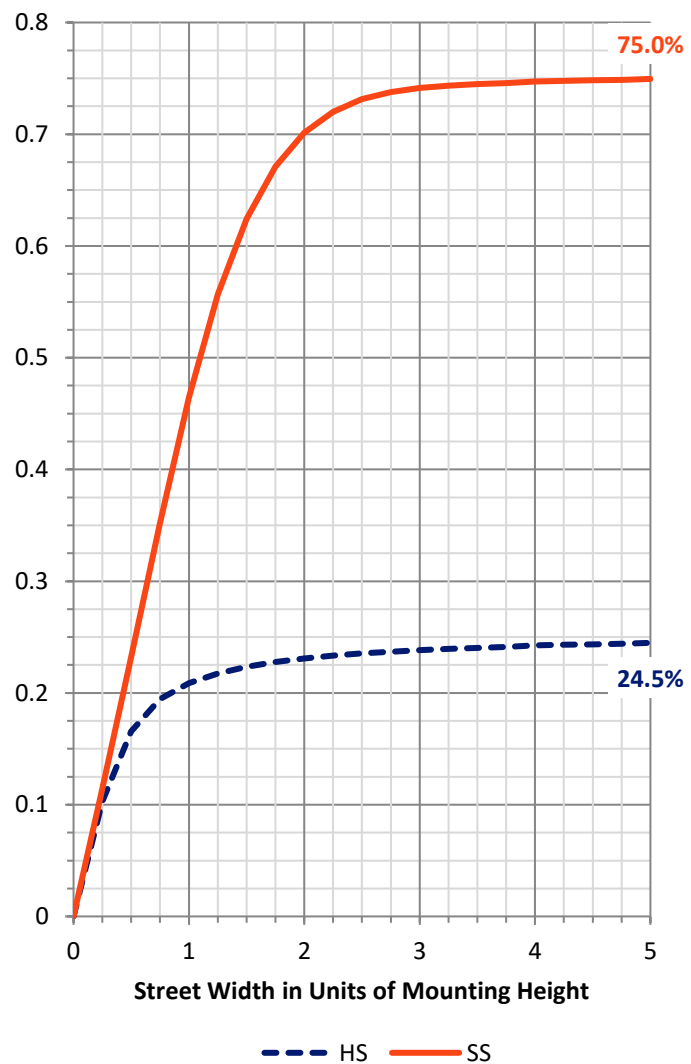
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10808.4	0.0	10808.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	32660.6	0.0	32660.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	43469.0	0.0	43469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	1.1
10°-20°	1579.3	3.6
20°-30°	3044.0	7.0
30°-40°	5337.2	12.3
40°-50°	7934.7	18.3
50°-60°	10058.0	23.1
60°-70°	9841.5	22.6
70°-80°	4694.5	10.8
80°-90°	501.7	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°	43469.0	100.0
0°-180°	43469.0	100.0

Coefficient of Utilization



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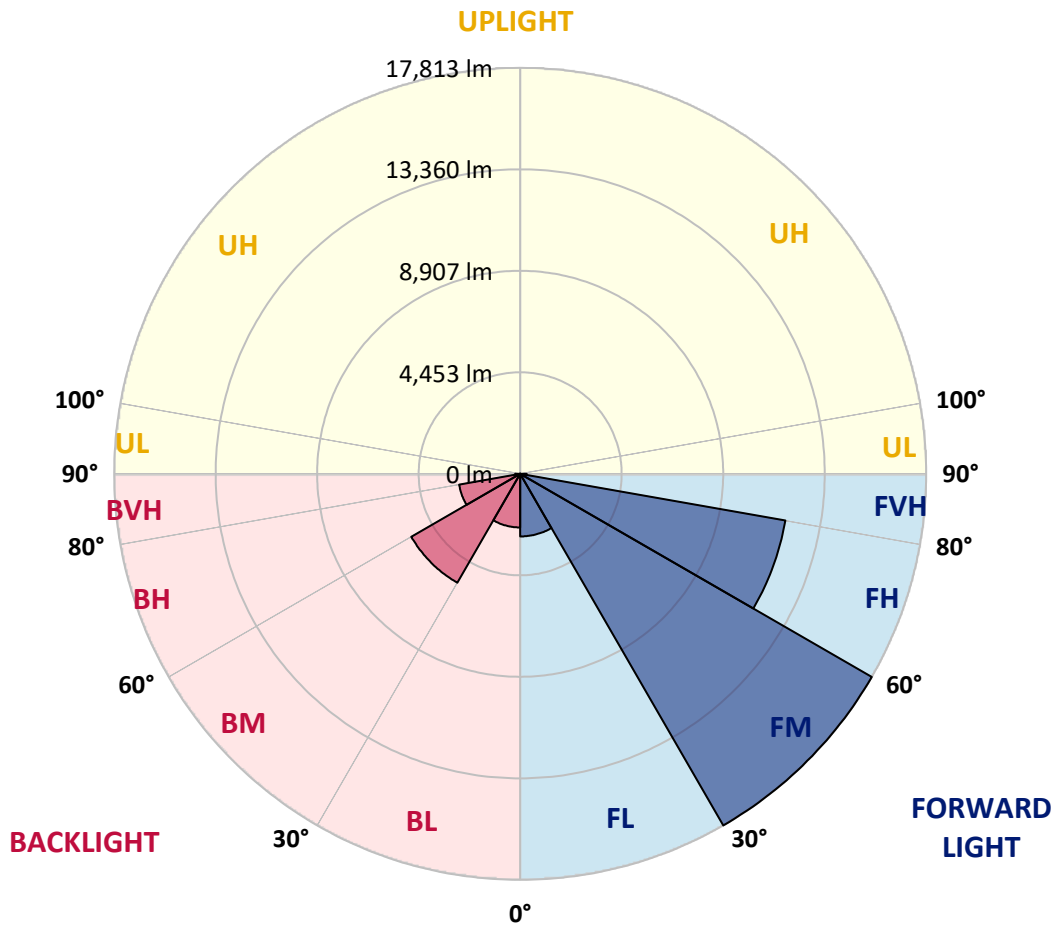
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2746.8	6.3			
FM (30°-60°)	17813.2	41.0			
FH (60°-80°)	11816.1	27.2			G4/12000
FVH (80°-90°)	284.5	0.7			G3/500
BL (0°-30°)	2354.5	5.4	B3/2500		
BM (30°-60°)	5516.7	12.7	B4/8500		
BH (60°-80°)	2720.0	6.3	B4/5000		G4/5000
BVH (80°-90°)	217.3	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°	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3
2.5°	4771.0	4798.4	4791.6	4780.2	4777.9	4782.5	4789.3	4796.2	4793.9	4805.3
5°	4757.3	4784.7	4782.5	4782.5	4791.6	4809.9	4821.3	4832.7	4821.3	4835.0
7.5°	4766.5	4787.0	4796.2	4805.3	4828.1	4862.4	4889.8	4914.9	4901.2	4917.2
10°	4883.0	4898.9	4908.1	4908.1	4924.1	4962.9	4990.3	5036.0	5024.6	5049.7
12.5°	5095.4	5111.3	5111.3	5102.2	5113.6	5138.7	5147.9	5198.1	5177.6	5218.7
15°	5355.7	5387.7	5362.6	5346.6	5351.1	5376.3	5374.0	5412.8	5392.3	5426.5
17.5°	5643.5	5684.6	5643.5	5641.2	5632.1	5659.5	5661.8	5696.0	5659.5	5684.6
20°	5983.8	6040.9	6006.6	6018.0	5997.5	6008.9	6020.3	6070.6	6013.5	6031.7
22.5°	6463.4	6531.9	6495.4	6538.8	6525.1	6515.9	6513.6	6602.7	6513.6	6520.5
25°	7162.3	7244.5	7180.5	7239.9	7239.9	7269.6	7303.9	7418.1	7269.6	7226.2
27.5°	8194.6	8276.8	8151.2	8187.7	8176.3	8249.4	8212.9	8496.1	8336.2	8265.4
30°	9437.0	9583.2	9345.7	9336.5	9325.1	9441.6	9494.1	9681.4	9519.2	9448.4
32.5°	10779.9	10933.0	10649.8	10567.5	10524.2	10595.0	10551.6	10702.3	10590.4	10480.8
35°	12200.5	12351.3	12081.8	11921.9	11748.3	11599.9	11444.6	11483.4	11378.3	11211.6
37.5°	13543.5	13819.8	13534.3	13363.0	13043.3	12753.2	12319.3	12138.9	12040.7	11887.6
40°	14911.5	15069.1	14852.1	14706.0	14358.8	13904.3	13210.0	12828.6	12696.1	12547.7
42.5°	15918.7	16069.4	15953.0	15852.5	15580.7	15053.1	14155.5	13678.2	13486.4	13319.6
45°	16718.1	16830.0	16756.9	16793.4	16676.9	16165.4	15135.3	14589.5	14390.8	14187.5
47.5°	17040.1	17158.8	17275.3	17492.3	17691.0	17314.2	16188.2	15576.1	15366.0	15158.2
50°	17003.5	17124.6	17462.6	17923.9	18540.6	18415.0	17298.2	16626.7	16432.6	16195.0
52.5°	16711.2	16848.2	17282.2	18049.6	19031.6	19239.5	18428.7	17711.5	17528.8	17245.6
55°	15943.8	16026.0	16676.9	17764.1	19148.1	19815.0	19536.4	18867.2	18684.5	18289.4
57.5°	14521.0	14639.7	15587.5	16994.4	18855.8	20205.6	20509.3	20082.2	19906.4	19337.7
60°	12664.2	12853.7	13938.6	15701.7	18111.2	20203.3	21393.2	21276.7	21130.5	20370.0
62.5°	10563.0	10782.2	11826.0	13874.6	16809.4	19630.0	21945.9	22277.0	22201.7	21322.4
65°	8112.4	8263.1	9302.3	11510.8	14783.6	18399.0	22009.8	22959.9	22973.6	22046.4
67.5°	5401.4	5835.3	6737.5	8637.7	12070.3	16386.9	21448.0	23071.8	23204.3	22295.3
70°	2635.6	3206.6	4090.4	5613.8	8637.7	13301.4	19979.4	22153.7	22448.3	21569.0
72.5°	1094.0	1279.0	1760.9	2770.4	4958.3	8975.7	17028.7	19664.3	20210.1	19111.6
75°	737.7	799.4	1007.2	1420.6	2258.8	4426.2	12280.5	14662.6	15541.9	14434.2
77.5°	568.7	607.5	733.1	993.5	1342.9	1674.1	6573.0	8836.4	9290.9	8601.1
80°	447.6	477.3	548.1	724.0	952.4	895.3	2240.5	4003.7	4266.3	3578.9
82.5°	388.3	399.7	392.8	491.0	632.6	523.0	735.4	1477.7	1630.7	1183.1
85°	280.9	312.9	326.6	303.8	335.7	264.9	301.5	523.0	575.5	513.9
87.5°	114.2	169.0	207.8	196.4	123.3	75.4	93.6	153.0	175.9	191.8
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°
4821.3	0°	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3	4821.3
4823.6	2.5°	4825.9	4841.8	4853.3	4867.0	4876.1	4889.8	4917.2	4933.2	4935.5	4946.9
4860.1	5°	4869.2	4892.1	4917.2	4953.8	4994.9	5029.1	5081.6	5118.2	5131.9	5143.3
4949.2	7.5°	4962.9	4994.9	5040.5	5104.5	5163.9	5209.5	5273.5	5316.9	5360.3	5376.3
5090.8	10°	5102.2	5147.9	5214.1	5300.9	5364.9	5424.2	5490.5	5527.0	5570.4	5588.7
5259.8	12.5°	5275.8	5323.7	5410.5	5531.6	5591.0	5632.1	5654.9	5645.8	5654.9	5670.9
5463.1	15°	5474.5	5527.0	5625.2	5755.4	5796.5	5760.0	5709.7	5664.0	5657.2	5661.8
5709.7	17.5°	5709.7	5748.5	5862.7	5972.4	5942.7	5791.9	5682.3	5609.2	5572.7	5561.3
6024.9	20°	6038.6	6038.6	6132.2	6200.8	6002.1	5746.3	5575.0	5456.2	5380.8	5348.9
6454.3	22.5°	6438.3	6401.7	6461.1	6413.2	5990.6	5618.4	5380.8	5175.3	5061.1	5015.4
7054.9	25°	6945.3	6901.9	6885.9	6589.0	5908.4	5415.1	5029.1	4780.2	4679.7	4654.6
7920.5	27.5°	7710.4	7600.8	7392.9	6684.9	5757.7	5095.4	4618.0	4387.3	4330.3	4332.5
9032.8	30°	8729.0	8509.8	8000.5	6700.9	5511.0	4643.1	4197.8	4033.3	4005.9	4017.4
9966.9	32.5°	9672.3	9464.4	8621.7	6627.8	5131.9	4200.1	3820.9	3711.3	3670.2	3683.9
10679.5	35°	10412.2	10355.1	9197.2	6525.1	4666.0	3784.4	3482.9	3389.3	3309.4	3291.1
11350.9	37.5°	11111.1	11088.3	9628.9	6381.2	4204.6	3489.8	3211.1	3087.8	2971.3	2907.4
12093.2	40°	11878.5	11855.7	9912.1	6159.6	3795.8	3234.0	2966.8	2804.6	2660.7	2544.3
12933.7	42.5°	12741.8	12607.1	10046.8	5842.2	3448.7	3017.0	2768.1	2548.8	2359.3	2251.9
13883.8	45°	13685.1	13381.3	10044.5	5437.9	3156.3	2818.3	2555.7	2245.1	2069.2	1968.7
14859.0	47.5°	14685.4	14121.3	9921.2	4990.3	2873.1	2599.1	2226.8	1989.3	1872.8	1811.1
15918.7	50°	15717.7	14813.3	9711.1	4476.4	2583.1	2350.1	2021.2	1859.1	1770.0	1712.9
16969.3	52.5°	16688.4	15441.4	9457.6	3894.0	2288.5	2108.0	1929.9	1804.3	1710.6	1646.7
17987.9	55°	17590.5	15982.6	9099.0	3297.9	2048.6	1945.9	1886.5	1781.4	1674.1	1598.7
19022.5	57.5°	18392.1	16334.4	8480.1	2738.4	1877.4	1834.0	1840.8	1742.6	1619.3	1555.3
20041.1	60°	19059.0	16592.4	7564.2	2219.9	1738.0	1724.3	1770.0	1669.5	1525.6	1452.6
20902.1	62.5°	19458.7	16587.9	6440.6	1818.0	1619.3	1623.8	1676.4	1578.2	1432.0	1363.5
21352.1	65°	19424.5	16181.3	5207.3	1555.3	1505.1	1509.6	1578.2	1477.7	1354.3	1313.2
21126.0	67.5°	18737.0	15190.1	3994.5	1384.0	1379.5	1400.0	1480.0	1409.2	1306.4	1301.8
19778.5	70°	16875.6	13132.4	2877.7	1247.0	1249.3	1279.0	1384.0	1365.8	1281.3	1290.4
16629.0	72.5°	13532.0	10012.6	1932.2	1103.1	1105.4	1153.4	1292.7	1331.5	1256.1	1377.2
11798.6	75°	9012.2	6244.1	1242.4	950.1	952.4	1014.0	1212.7	1265.3	1187.6	1372.6
6139.1	77.5°	4330.3	2806.9	899.9	799.4	799.4	856.5	1048.3	1132.8	1011.8	1066.6
1973.3	80°	1495.9	1055.2	708.0	644.1	630.4	669.2	883.9	982.1	872.4	803.9
644.1	82.5°	589.2	548.1	568.7	500.2	454.5	479.6	687.5	810.8	641.8	580.1
363.1	85°	338.0	356.3	402.0	331.2	262.6	294.6	504.7	582.4	484.2	427.1
118.8	87.5°	91.4	125.6	185.0	171.3	118.8	125.6	239.8	322.0	278.6	214.7
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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<u>180°</u>
4821.3
4944.6
5141.0
5378.6
5597.8
5675.5
5677.7
5577.3
5342.0
5008.6
4659.1
4339.4
4056.2
3702.2
3304.8
2909.7
2555.7
2258.8
1964.1
1797.4
1692.4
1619.3
1569.0
1514.2
1420.6
1342.9
1311.0
1308.7
1288.1
1395.5
1384.0
977.5
753.7
577.8
436.2
221.5
0.0

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