

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: P943049

Luminaire Tested: **GALN-SB7B-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35565 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

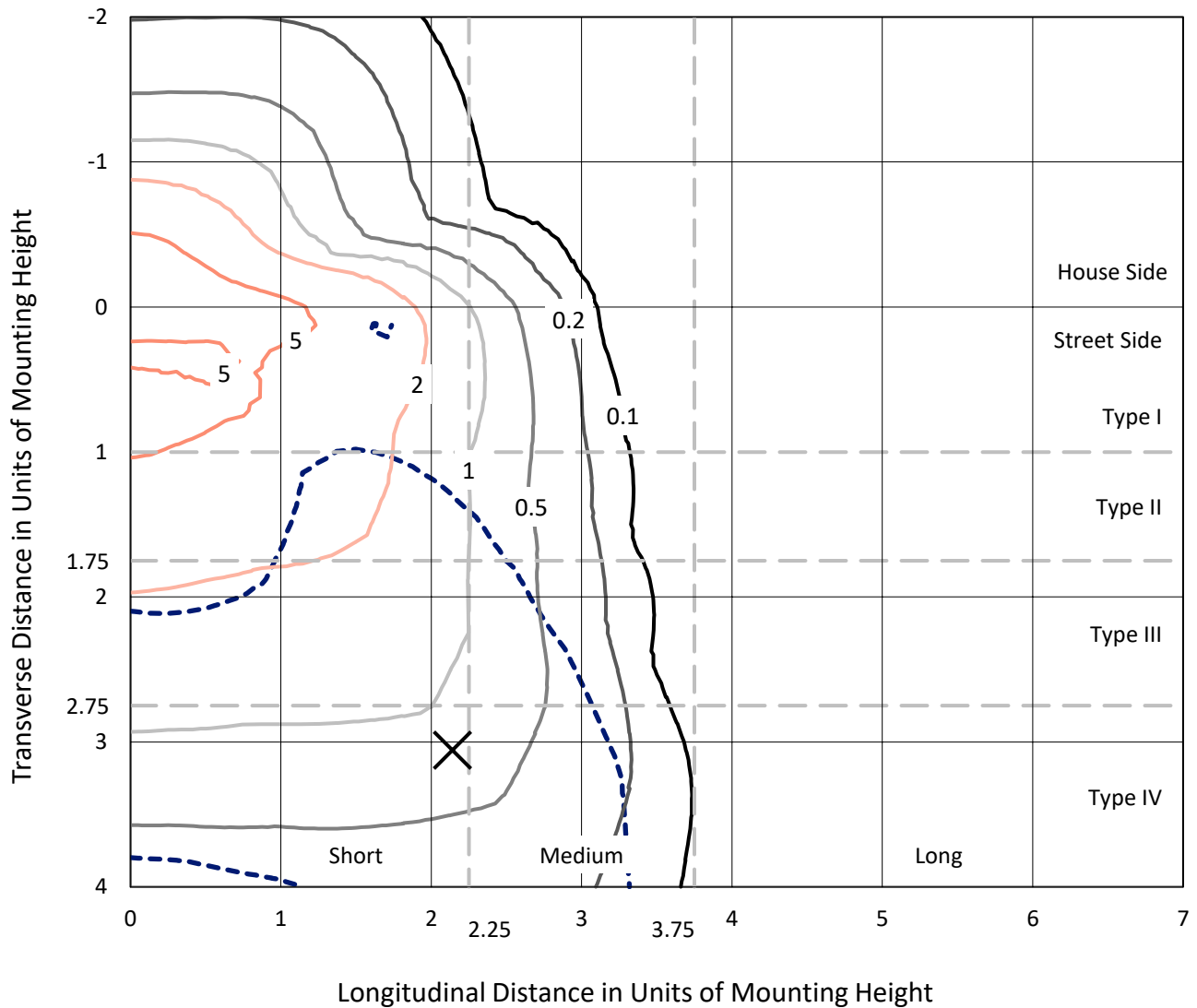
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

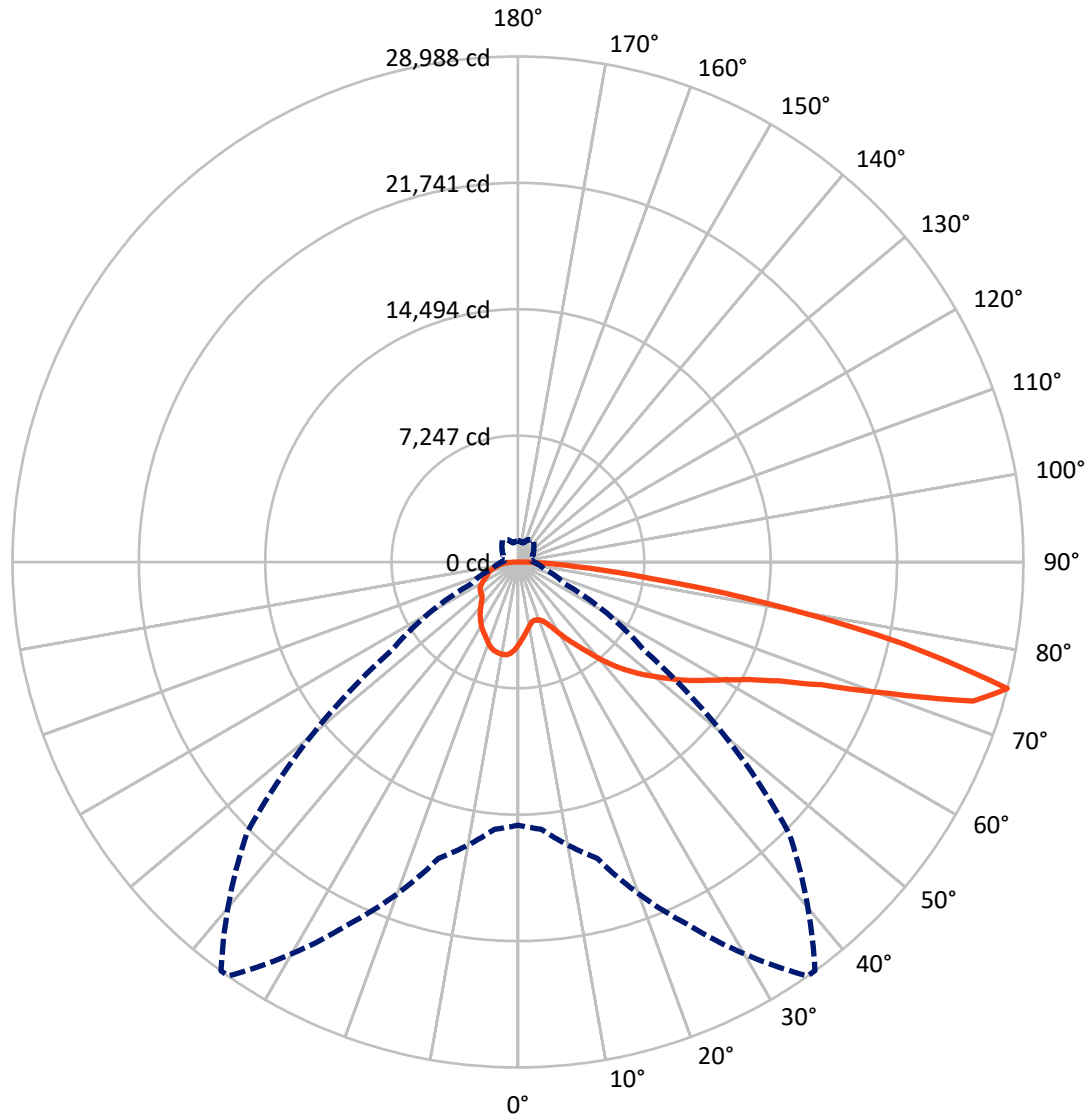
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8463.6	0.0	8463.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27101.4	0.0	27101.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	35565.0	0.0	35565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	1.3
10°-20°	1294.3	3.6
20°-30°	2173.4	6.1
30°-40°	3377.8	9.5
40°-50°	5013.6	14.1
50°-60°	6921.6	19.5
60°-70°	8397.5	23.6
70°-80°	6939.9	19.5
80°-90°	998.2	2.8
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°	35565.0	100.0
0°-180°	35565.0	100.0

Coefficient of Utilization



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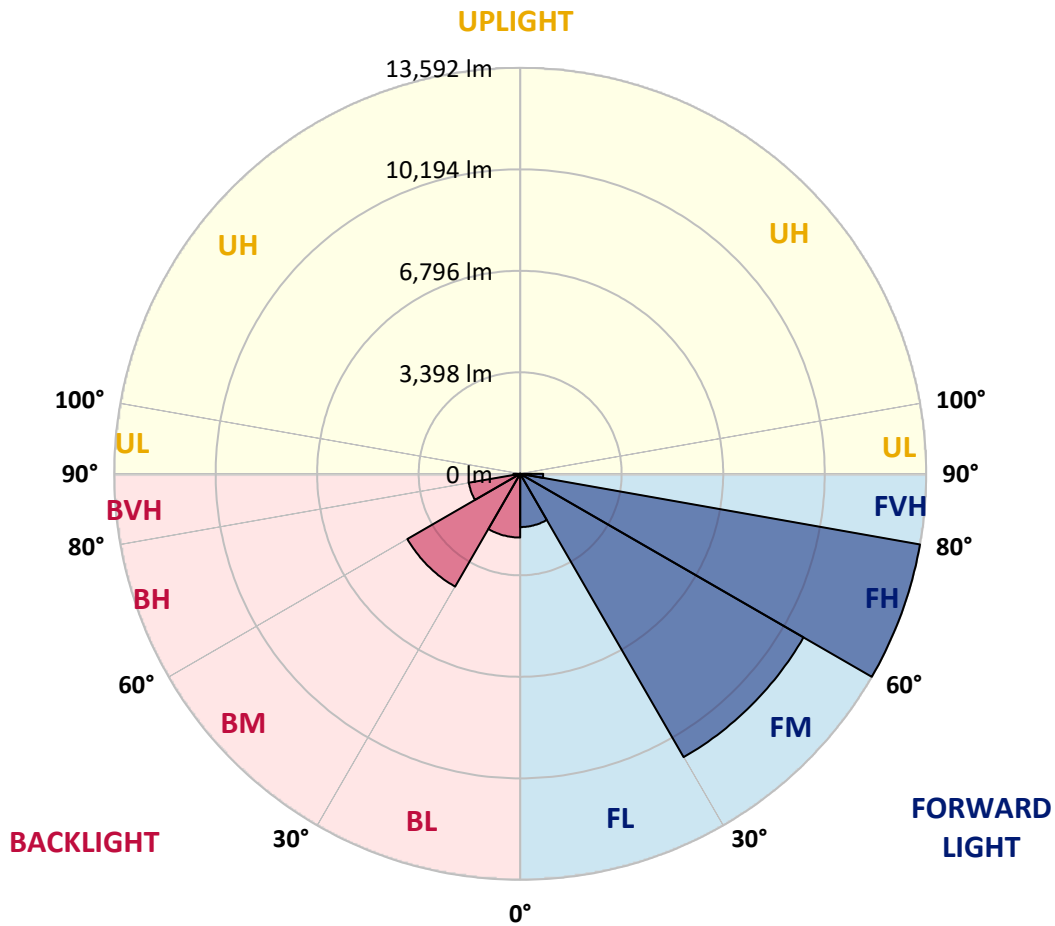
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1783.5	5.0			
FM (30°-60°)	10952.1	30.8			
FH (60°-80°)	13592.4	38.2			G5
FVH (80°-90°)	773.4	2.2			G5
BL (0°-30°)	2132.9	6.0	B3/2500		
BM (30°-60°)	4360.9	12.3	B3/5000		
BH (60°-80°)	1744.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	224.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3
2.5°	4370.1	4397.0	4408.6	4402.8	4431.7	4427.8	4468.2	4518.2	4587.4	4654.7
5°	4033.7	4062.5	4087.5	4110.6	4166.3	4183.6	4247.1	4343.2	4470.1	4598.9
7.5°	3720.3	3745.3	3783.7	3826.0	3920.2	3937.5	4043.3	4193.3	4370.1	4558.5
10°	3464.6	3489.6	3529.9	3578.0	3695.3	3716.4	3851.0	4051.0	4281.7	4520.1
12.5°	3355.0	3362.7	3385.7	3433.8	3535.7	3549.2	3697.2	3926.0	4195.2	4491.3
15°	3349.2	3364.6	3366.5	3391.5	3476.1	3481.9	3618.4	3845.3	4141.3	4485.5
17.5°	3406.9	3418.4	3401.1	3416.5	3487.6	3497.3	3604.9	3806.8	4124.0	4510.5
20°	3560.7	3570.3	3518.4	3497.3	3549.2	3556.9	3662.6	3831.8	4141.3	4562.4
22.5°	3887.6	3893.3	3766.4	3679.9	3683.8	3687.6	3779.9	3933.7	4208.6	4656.6
25°	4397.0	4393.2	4191.3	4024.1	3927.9	3906.8	3968.3	4099.0	4322.1	4781.6
27.5°	4993.1	4964.2	4762.3	4512.4	4302.8	4272.1	4258.6	4314.4	4483.6	4946.9
30°	5666.0	5639.1	5421.8	5095.0	4804.6	4754.7	4627.8	4598.9	4723.9	5171.9
32.5°	6404.3	6387.0	6127.4	5731.4	5343.0	5285.3	5071.9	4995.0	5093.0	5512.2
35°	7023.4	7008.0	6792.6	6385.0	5910.2	5839.0	5621.8	5535.2	5585.2	5948.6
37.5°	7582.8	7575.2	7390.6	7069.5	6579.2	6492.7	6248.5	6219.7	6210.1	6523.5
40°	8102.0	8082.7	7890.5	7721.3	7357.9	7279.1	7063.7	7038.7	6965.7	7231.0
42.5°	8676.8	8626.8	8348.0	8269.2	8171.2	8105.8	7977.0	7980.8	7819.3	8028.9
45°	9145.9	9117.1	8830.6	8784.5	8890.2	8863.3	8974.8	9003.7	8690.3	8865.2
47.5°	9649.7	9622.8	9380.5	9347.8	9634.3	9642.0	10036.1	10045.7	9540.1	9734.3
50°	10270.7	10232.2	9991.9	10032.3	10353.3	10382.2	11103.2	11037.8	10322.6	10616.7
52.5°	10680.2	10703.3	10651.4	10716.7	11155.1	11182.0	12152.9	11985.7	11097.4	11487.7
55°	10982.0	11028.2	11189.7	11339.7	12001.0	12028.0	13143.1	12887.4	11739.6	12295.2
57.5°	11370.4	11305.0	11606.9	11899.1	12804.7	12875.8	14106.3	13756.4	12308.7	12991.2
60°	11928.0	11881.8	12116.4	12549.0	13704.5	13817.9	15125.3	14538.9	12725.9	13543.0
62.5°	13058.5	12943.1	12979.7	13362.3	14838.8	14988.8	16275.0	15221.4	12933.5	13758.3
65°	14748.5	14550.4	14365.9	14631.2	16436.5	16584.6	17572.8	15757.9	12856.6	13341.1
67.5°	16876.8	16680.7	16453.8	16703.8	18789.8	18907.1	19174.4	16059.7	12251.0	11733.8
70°	18632.2	18559.1	18830.2	19858.8	22548.6	22552.4	21227.7	15809.8	10591.8	8319.2
72.5°	18399.5	18355.3	19783.8	22963.9	27285.9	27184.0	23171.5	13917.9	7134.9	3753.0
75°	15094.5	15381.0	17594.0	22908.1	28987.5	28974.0	21981.4	8847.9	2951.2	1555.4
77.5°	8094.3	8548.0	11422.3	16913.4	22629.3	22969.6	15454.1	3095.4	1267.0	995.9
80°	2639.8	3035.8	4552.8	8611.4	14704.3	14640.8	6623.5	1215.1	867.1	705.6
82.5°	1120.9	1167.0	2034.1	4066.4	7546.3	7429.0	2109.1	697.9	609.5	482.6
85°	438.4	490.3	897.9	1880.3	3268.5	3197.3	761.4	346.1	390.3	315.3
87.5°	144.2	175.0	321.1	644.1	1017.1	980.5	186.5	119.2	169.2	144.2
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°
4739.3	0°	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3	4739.3
4752.7	2.5°	4779.7	4810.4	4846.9	4900.8	4946.9	4985.4	5025.7	5050.7	5060.4	5089.2
4760.4	5°	4814.3	4881.6	4971.9	5060.4	5146.9	5198.8	5244.9	5268.0	5289.1	5304.5
4781.6	7.5°	4871.9	4958.5	5100.7	5216.1	5289.1	5331.4	5362.2	5354.5	5362.2	5366.1
4804.6	10°	4921.9	5043.1	5212.2	5321.8	5377.6	5379.5	5371.8	5344.9	5331.4	5333.4
4839.3	12.5°	4981.5	5116.1	5298.8	5391.0	5406.4	5364.1	5331.4	5285.3	5268.0	5260.3
4891.2	15°	5062.3	5216.1	5393.0	5427.6	5389.1	5335.3	5279.5	5204.6	5166.1	5135.3
4979.6	17.5°	5160.3	5329.5	5466.0	5441.0	5358.4	5269.9	5179.6	5066.1	4987.3	4954.6
5100.7	20°	5296.8	5448.7	5521.8	5412.2	5287.2	5152.6	4998.8	4860.4	4787.3	4754.7
5254.5	22.5°	5462.2	5608.3	5575.6	5362.2	5185.3	4970.0	4777.7	4675.8	4639.3	4616.2
5452.6	25°	5660.2	5785.2	5614.1	5289.1	5018.1	4727.7	4579.7	4547.0	4529.7	4512.4
5694.8	27.5°	5917.8	5985.1	5642.9	5181.5	4756.6	4470.1	4416.3	4422.0	4416.3	4387.4
6031.3	30°	6258.2	6244.7	5669.8	5006.5	4456.7	4237.5	4241.3	4266.3	4270.2	4250.9
6500.4	32.5°	6706.1	6569.6	5683.3	4779.7	4170.2	4033.7	4037.5	4064.4	4083.7	4051.0
7113.7	35°	7248.3	6948.4	5662.1	4495.1	3949.1	3839.5	3810.6	3818.3	3824.1	3793.3
7857.8	37.5°	7880.9	7373.3	5567.9	4179.8	3766.4	3649.1	3587.6	3535.7	3504.9	3476.1
8699.9	40°	8574.9	7836.6	5394.9	3872.2	3562.6	3447.3	3355.0	3256.9	3153.1	3114.7
9592.0	42.5°	9301.7	8313.4	5185.3	3578.0	3328.1	3233.9	3135.8	2993.5	2837.8	2759.0
10518.7	45°	10055.3	8801.8	4979.6	3287.7	3087.7	3047.4	2933.9	2762.8	2593.6	2493.6
11447.3	47.5°	10793.6	9263.2	4677.8	2995.5	2862.8	2907.0	2818.6	2660.9	2472.5	2314.8
12368.3	50°	11499.2	9695.8	4183.6	2699.4	2680.1	2864.7	2780.1	2553.2	2337.9	2136.0
13271.9	52.5°	12199.1	10045.7	3551.1	2430.2	2582.1	2853.2	2730.1	2480.2	2216.8	2005.3
14121.7	55°	12793.2	10226.5	2941.6	2199.5	2439.8	2755.1	2670.5	2393.7	2045.7	1820.7
14704.3	57.5°	13131.5	10080.3	2434.0	1972.6	2243.7	2593.6	2568.6	2209.1	1841.9	1668.8
14817.7	60°	12985.4	9488.2	2018.8	1774.6	2057.2	2418.7	2391.7	2026.4	1686.1	1522.7
14210.1	62.5°	12179.8	8359.6	1690.0	1601.5	1888.0	2239.9	2214.9	1886.1	1566.9	1409.3
12597.1	65°	10557.1	6800.3	1434.3	1457.4	1716.9	2024.5	2061.1	1768.8	1472.7	1318.9
9745.8	67.5°	8052.0	4925.8	1234.3	1332.4	1549.6	1813.0	1918.8	1684.2	1393.9	1247.8
5639.1	70°	4589.3	2797.4	1065.1	1211.3	1401.6	1616.9	1809.2	1616.9	1309.3	1188.2
2113.0	72.5°	1740.0	1284.3	920.9	1090.1	1259.3	1451.6	1688.1	1511.2	1211.3	1120.9
1092.1	75°	928.6	782.5	774.8	947.9	1095.9	1290.1	1536.2	1407.4	1138.2	1184.3
755.6	77.5°	632.5	553.7	647.9	811.3	917.1	1111.3	1374.7	1249.7	986.3	982.5
523.0	80°	438.4	392.2	526.8	653.7	709.4	934.4	1199.7	1072.8	803.7	749.8
323.0	82.5°	263.4	255.7	394.1	488.3	501.8	721.0	994.0	899.8	657.5	572.9
192.3	85°	144.2	151.9	251.9	286.5	292.2	503.7	778.7	696.0	505.7	424.9
69.2	87.5°	40.4	51.9	92.3	113.4	140.4	261.5	463.4	413.4	253.8	176.9
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°
4739.3
5087.3
5308.4
5371.8
5337.2
5256.5
5145.0
4956.5
4750.8
4620.1
4512.4
4393.2
4260.5
4066.4
3814.5
3495.3
3132.0
2768.6
2486.0
2297.5
2118.7
1982.2
1801.5
1645.8
1499.6
1384.3
1293.9
1224.7
1172.8
1105.5
1222.8
905.6
717.1
576.8
428.7
176.9
0.0

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