

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: P953834

Luminaire Tested: **GALN-SB7B-735-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-735-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

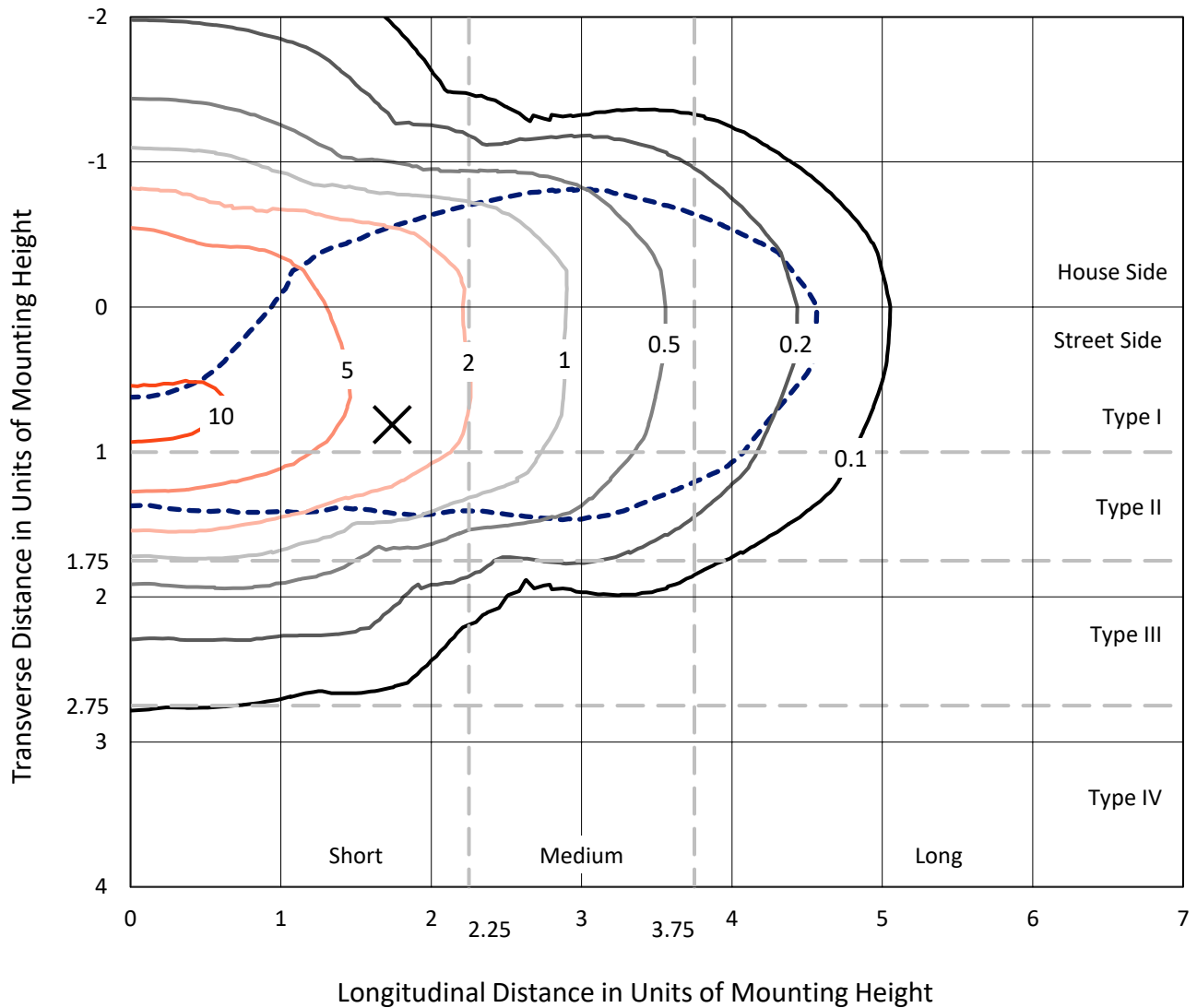
Lumens per Lamp: N/A  
Luminaire Lumens: 40583 lumens  
Efficiency: N/A  
Efficacy: 158.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

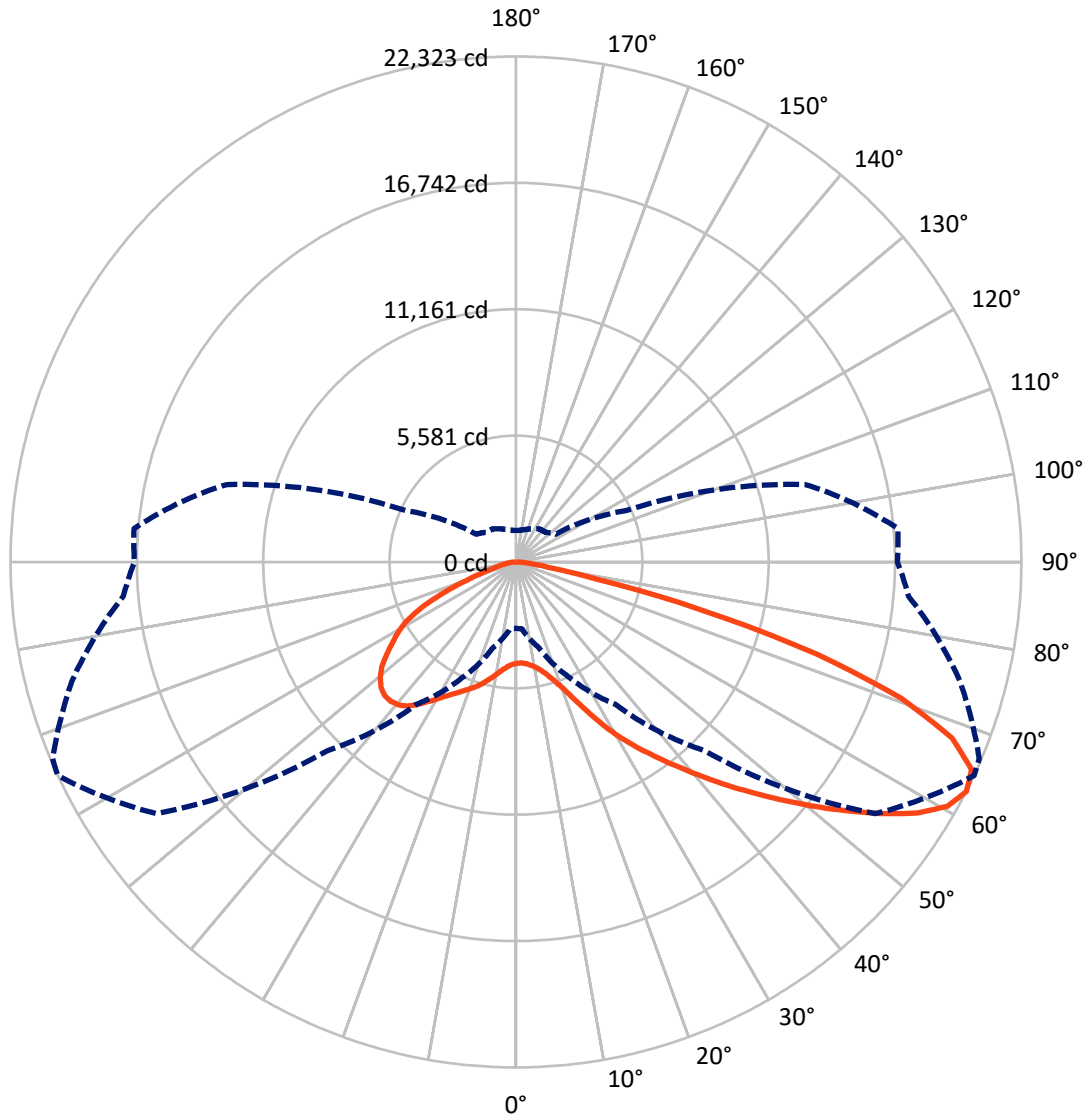
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12806.2	0.0	12806.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	27776.8	0.0	27776.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	40583.0	0.0	40583.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.9	1.1
10°-20°	1512.0	3.7
20°-30°	3065.6	7.6
30°-40°	5305.0	13.1
40°-50°	8028.2	19.8
50°-60°	9412.5	23.2
60°-70°	7891.3	19.4
70°-80°	4356.6	10.7
80°-90°	565.9	1.4
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°	40583.0	100.0
0°-180°	40583.0	100.0



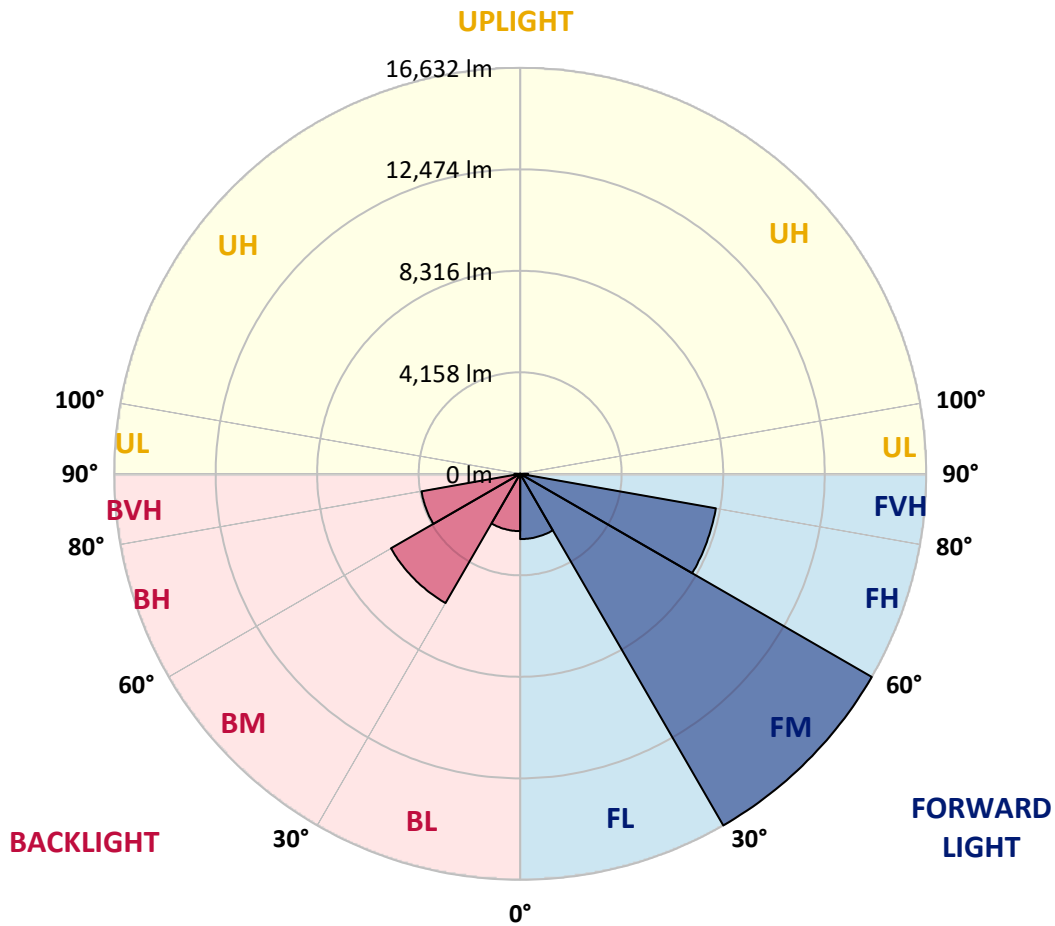
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.0	6.6			
FM (30°-60°)	16632.2	41.0			
FH (60°-80°)	8139.8	20.1			G4/12000
FVH (80°-90°)	329.8	0.8			G3/500
BL (0°-30°)	2348.5	5.8	B3/2500		
BM (30°-60°)	6113.5	15.1	B4/8500		
BH (60°-80°)	4108.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	236.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1
2.5°	4442.6	4430.0	4440.5	4440.5	4444.7	4442.6	4457.3	4461.5	4467.9	4480.5
5°	4398.4	4396.3	4415.2	4432.1	4448.9	4463.6	4482.6	4510.0	4514.2	4528.9
7.5°	4383.6	4371.0	4400.5	4421.5	4461.5	4497.3	4547.9	4594.2	4613.1	4619.5
10°	4497.3	4476.3	4503.7	4516.3	4550.0	4585.8	4644.7	4718.4	4739.5	4764.7
12.5°	4691.0	4667.9	4707.9	4726.8	4758.4	4790.0	4830.0	4901.6	4912.1	4958.4
15°	4956.3	4929.0	4954.2	4977.4	5030.0	5059.5	5099.5	5169.0	5169.0	5204.8
17.5°	5316.4	5280.6	5299.5	5308.0	5341.6	5385.9	5453.2	5514.3	5545.9	5533.2
20°	5853.3	5809.1	5809.1	5766.9	5754.3	5790.1	5878.5	5962.8	5996.4	5931.2
22.5°	6659.7	6596.5	6560.7	6417.5	6360.7	6364.9	6453.3	6556.5	6583.9	6468.1
25°	7685.1	7586.1	7537.7	7327.1	7198.7	7087.1	7156.6	7289.2	7327.1	7183.9
27.5°	8710.4	8716.7	8670.4	8417.8	8205.1	8000.9	7965.1	8104.0	8144.1	7981.9
30°	10148.5	9999.0	9910.6	9607.4	9304.2	9017.8	8870.4	8927.3	8937.8	8744.1
32.5°	11388.6	11350.7	11161.2	10895.9	10506.4	10057.9	9811.6	9721.1	9704.2	9428.4
35°	12801.4	12780.4	12580.3	12264.5	11843.4	11220.2	10775.9	10516.9	10495.9	10108.5
37.5°	14237.4	14237.4	14041.5	13696.2	13260.4	12481.4	11805.5	11394.9	11327.6	10822.2
40°	15382.7	15313.3	15349.1	15203.8	14704.8	13877.3	12948.8	12352.9	12262.4	11656.0
42.5°	16033.3	16010.2	16224.9	16387.1	16182.8	15521.7	14207.9	13390.9	13264.6	12574.0
45°	16178.6	16153.4	16536.6	17130.3	17416.7	17145.0	15576.4	14483.7	14330.0	13534.1
47.5°	15843.8	15793.3	16355.5	17292.4	18210.4	18688.4	17058.7	15669.1	15445.9	14469.0
50°	14837.4	14789.0	15639.6	16884.0	18477.8	19736.9	18667.3	16926.1	16585.0	15471.2
52.5°	12649.8	12673.0	14005.8	15715.4	18126.2	20389.6	20052.7	18250.4	17839.9	16496.6
55°	9853.7	9904.2	11542.3	13424.6	16719.7	20290.7	20998.1	19614.8	19206.3	17460.9
57.5°	7055.5	7278.7	8813.6	10677.0	14018.4	18722.1	21204.4	20911.8	20515.9	18513.6
60°	4573.1	4613.1	6192.3	8070.4	10674.9	15934.4	20785.4	21895.0	21585.5	19587.4
62.5°	2930.8	2958.2	3920.4	5644.8	7682.9	11788.7	19374.8	22322.5	22227.7	20297.0
65°	2153.9	2132.9	2634.0	3730.9	5175.3	7270.3	16635.5	22116.1	22303.5	20741.2
67.5°	1798.1	1768.6	2015.0	2583.4	3813.1	4128.9	12308.7	20774.9	21461.3	20690.7
70°	1638.1	1612.8	1762.3	1918.1	2975.1	2764.5	6204.9	18060.9	19117.9	20115.9
72.5°	1387.5	1343.3	1547.5	1703.3	2313.9	2120.2	2564.5	13873.1	15161.7	18273.6
75°	1075.9	1046.4	1221.2	1499.1	1739.1	1654.9	1621.2	8424.1	9830.6	14132.1
77.5°	852.7	812.7	972.7	1168.5	1564.4	1248.6	1181.2	3627.8	5021.6	9022.0
80°	642.2	606.4	739.0	924.3	1202.2	941.2	764.3	1480.2	1892.8	4571.0
82.5°	456.9	425.3	515.8	678.0	808.5	844.3	469.5	829.6	932.7	1762.3
85°	292.7	273.7	345.3	425.3	513.7	543.2	286.3	433.7	475.8	726.4
87.5°	160.0	130.5	185.3	197.9	237.9	216.9	136.9	157.9	170.5	263.2
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°
4472.1	0°	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1
4480.5	2.5°	4488.9	4495.2	4516.3	4522.6	4537.3	4556.3	4568.9	4581.6	4581.6	4594.2
4547.9	5°	4550.0	4564.7	4608.9	4632.1	4670.0	4707.9	4731.0	4758.4	4775.3	4783.7
4655.2	7.5°	4667.9	4691.0	4754.2	4794.2	4859.5	4912.1	4947.9	4985.8	4994.2	5017.4
4804.7	10°	4827.9	4855.3	4926.9	5002.7	5080.6	5145.8	5179.5	5206.9	5217.4	5221.6
4996.3	12.5°	5011.1	5051.1	5143.7	5236.4	5318.5	5375.3	5383.7	5377.4	5348.0	5322.7
5232.2	15°	5236.4	5272.2	5375.3	5476.4	5556.4	5566.9	5514.3	5480.6	5444.8	5438.5
5495.3	17.5°	5505.9	5524.8	5619.6	5718.5	5724.8	5689.0	5611.1	5579.6	5545.9	5522.7
5838.5	20°	5819.6	5813.3	5880.6	5922.8	5878.5	5769.1	5651.1	5598.5	5564.8	5537.5
6259.6	22.5°	6194.4	6145.9	6137.5	6127.0	6009.1	5779.6	5619.6	5552.2	5499.6	5461.7
6847.1	25°	6739.7	6554.4	6426.0	6354.4	6089.1	5722.7	5518.5	5369.0	5270.1	5204.8
7565.0	27.5°	7421.9	7110.3	6786.0	6611.3	6089.1	5606.9	5274.3	5032.1	4870.0	4802.6
8259.9	30°	8072.5	7746.1	7268.2	6920.8	6074.4	5417.4	4880.5	4543.7	4354.2	4286.8
8853.6	32.5°	8628.3	8272.5	7779.8	7259.7	6038.6	5110.0	4392.1	4019.4	3836.2	3756.2
9441.0	35°	9144.2	8765.2	8293.5	7632.4	5943.8	4659.5	3855.2	3570.9	3366.7	3238.3
10039.0	37.5°	9672.6	9222.1	8779.9	7969.3	5773.3	4133.1	3442.5	3200.4	2960.3	2787.7
10674.9	40°	10247.4	9708.4	9300.0	8169.3	5493.2	3632.0	3122.4	2901.4	2646.6	2463.4
11407.6	42.5°	10919.1	10291.7	9879.0	8272.5	5110.0	3276.1	2914.0	2697.1	2457.1	2307.6
12192.9	45°	11620.2	10933.8	10407.5	8270.4	4682.6	3109.8	2846.6	2631.9	2366.6	2210.8
12999.3	47.5°	12355.0	11605.5	10864.4	8135.6	4312.1	3133.0	2808.7	2490.8	2198.1	2046.5
13814.2	50°	13092.0	12340.3	11306.5	7883.0	4154.1	3082.4	2667.7	2292.9	1947.6	1810.7
14578.4	52.5°	13822.6	13121.4	11687.6	7522.9	3994.1	2895.1	2486.6	2036.0	1844.4	1749.7
15368.0	55°	14557.4	13894.2	12102.4	6998.7	3594.1	2676.1	2183.4	1939.2	1762.3	1676.0
16140.7	57.5°	15294.3	14786.9	12496.1	6474.4	3090.9	2406.6	2017.1	1821.3	1680.2	1606.5
16787.1	60°	16060.7	15808.1	12902.5	5992.2	2594.0	2061.3	1894.9	1726.5	1583.3	1501.2
17408.2	62.5°	16850.3	16932.4	13220.4	5371.1	2137.1	1850.7	1785.5	1612.8	1473.8	1395.9
17922.0	65°	17646.2	18016.7	13428.8	4510.0	1732.8	1650.7	1667.6	1488.6	1347.5	1280.1
18298.9	67.5°	18246.2	18797.9	13369.9	3413.0	1421.2	1461.2	1520.2	1358.0	1225.4	1172.8
18237.8	70°	18313.6	18705.2	12788.8	2337.1	1189.6	1275.9	1355.9	1229.6	1092.8	1054.9
17378.8	72.5°	17416.7	17441.9	11169.6	1526.5	1006.4	1120.1	1183.3	1099.1	966.4	928.5
15203.8	75°	15064.8	14424.7	8200.9	1006.4	842.2	962.2	1021.2	962.2	833.8	842.2
11376.0	77.5°	11413.9	10215.9	4979.5	715.9	703.2	808.5	888.5	846.4	736.9	827.5
5720.6	80°	5880.6	5526.9	2221.3	534.8	555.9	646.4	730.6	675.9	583.2	555.9
1278.0	82.5°	1347.5	1566.5	875.9	383.2	402.1	465.3	558.0	507.4	419.0	353.7
532.7	85°	471.6	515.8	387.4	240.0	235.8	290.6	379.0	339.0	284.2	227.4
225.3	87.5°	149.5	195.8	145.3	96.9	101.1	130.5	174.8	160.0	132.6	86.3
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°  
4472.1  
4594.2  
4787.9  
5009.0  
5211.1  
5322.7  
5438.5  
5524.8  
5539.6  
5474.3  
5230.0  
4836.3  
4326.8  
3796.2  
3280.4  
2834.0  
2499.2  
2337.1  
2236.0  
2067.6  
1819.1  
1749.7  
1667.6  
1593.9  
1494.9  
1393.8  
1278.0  
1174.9  
1057.0  
926.4  
812.7  
728.5  
507.4  
349.5  
240.0  
90.5  
0.0

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