

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: P943509

Luminaire Tested: **GALN-SB8A-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943509  
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-SB8A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

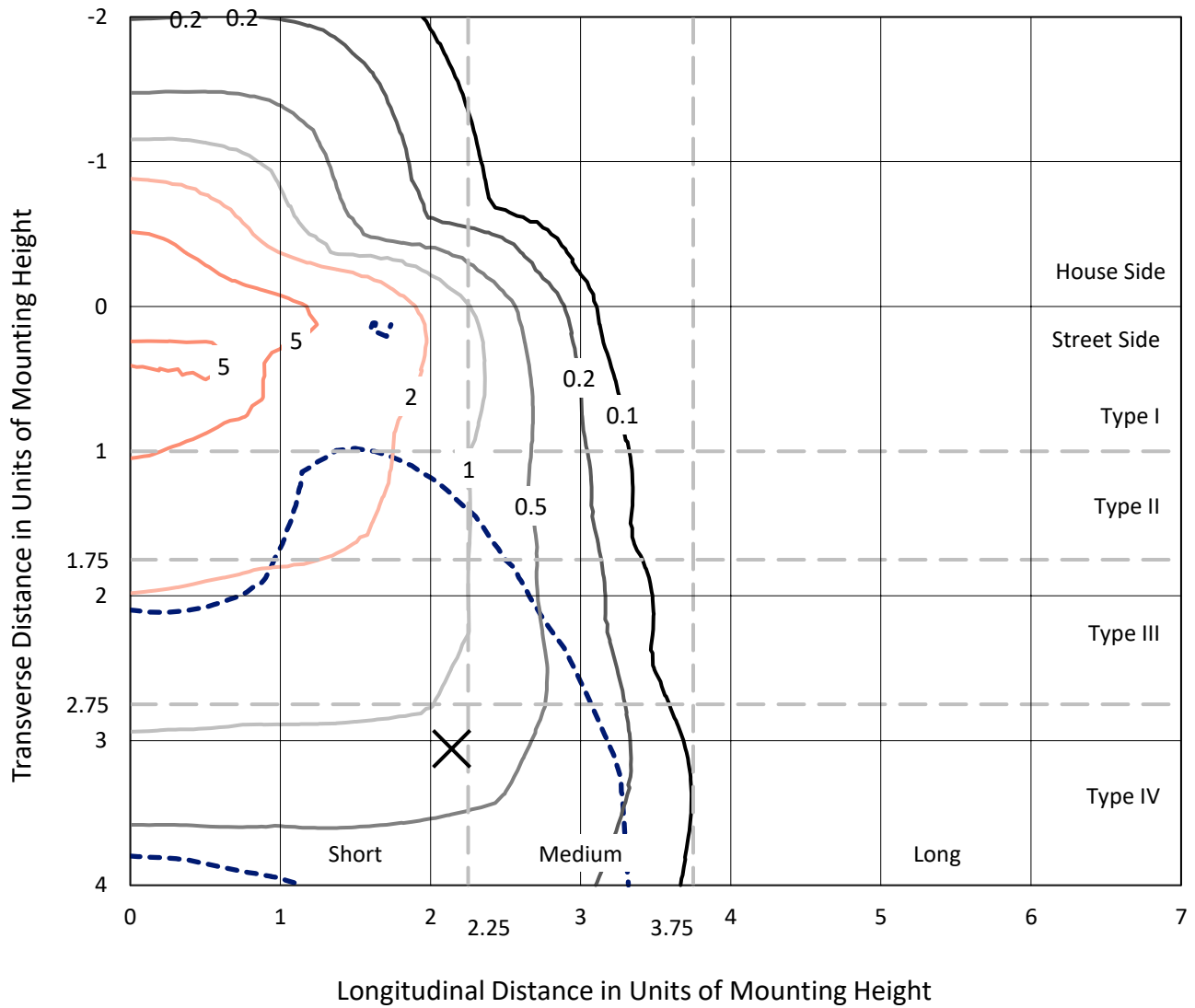
Lumens per Lamp: N/A  
Luminaire Lumens: 35851 lumens  
Efficiency: N/A  
Efficacy: 157.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

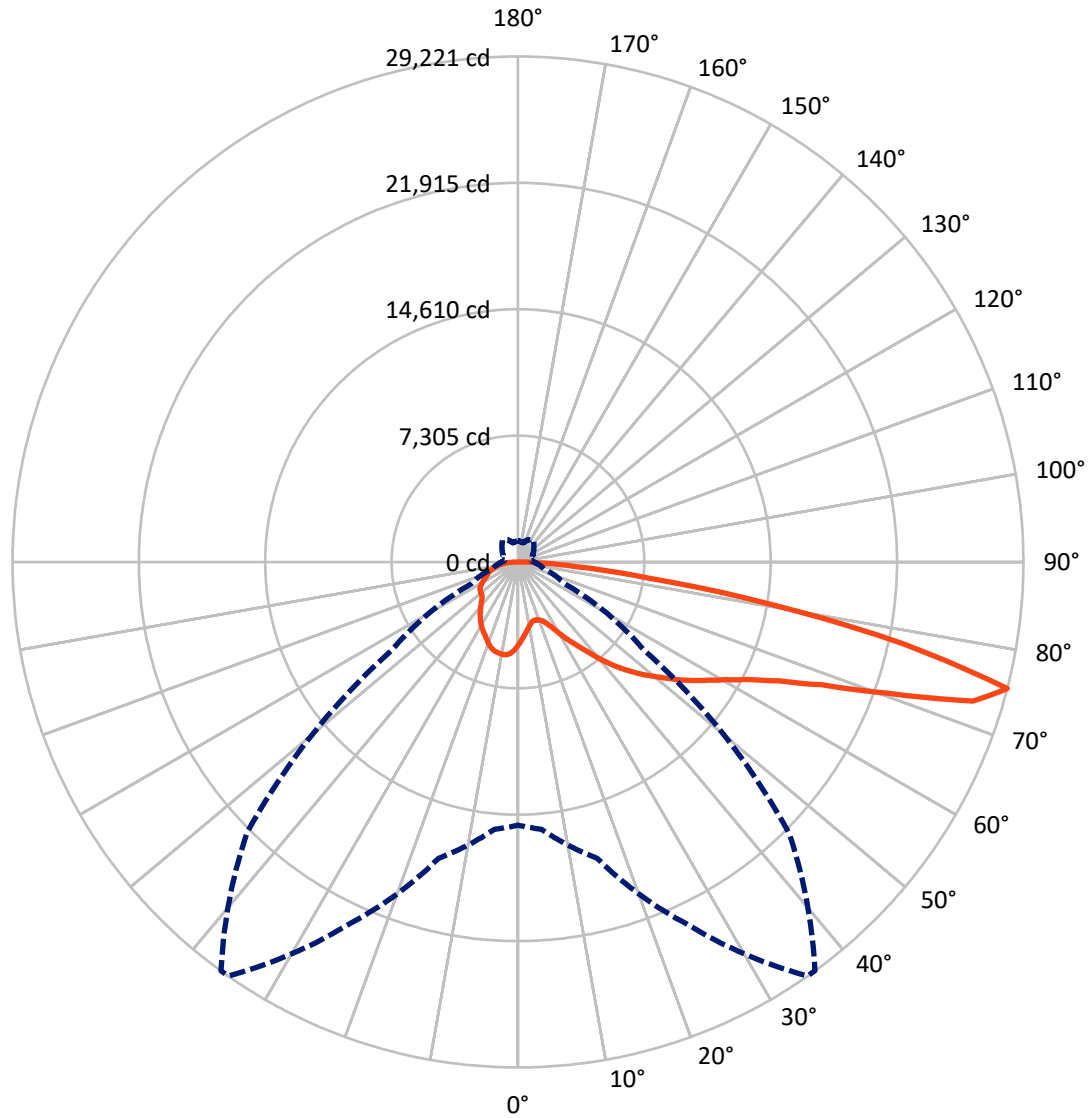
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8531.6	0.0	8531.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	27319.4	0.0	27319.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	35851.0	0.0	35851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.3	1.3
10°-20°	1304.7	3.6
20°-30°	2190.9	6.1
30°-40°	3405.0	9.5
40°-50°	5053.9	14.1
50°-60°	6977.3	19.5
60°-70°	8465.0	23.6
70°-80°	6995.7	19.5
80°-90°	1006.2	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°	35851.0	100.0
0°-180°	35851.0	100.0

**Coefficient of Utilization**



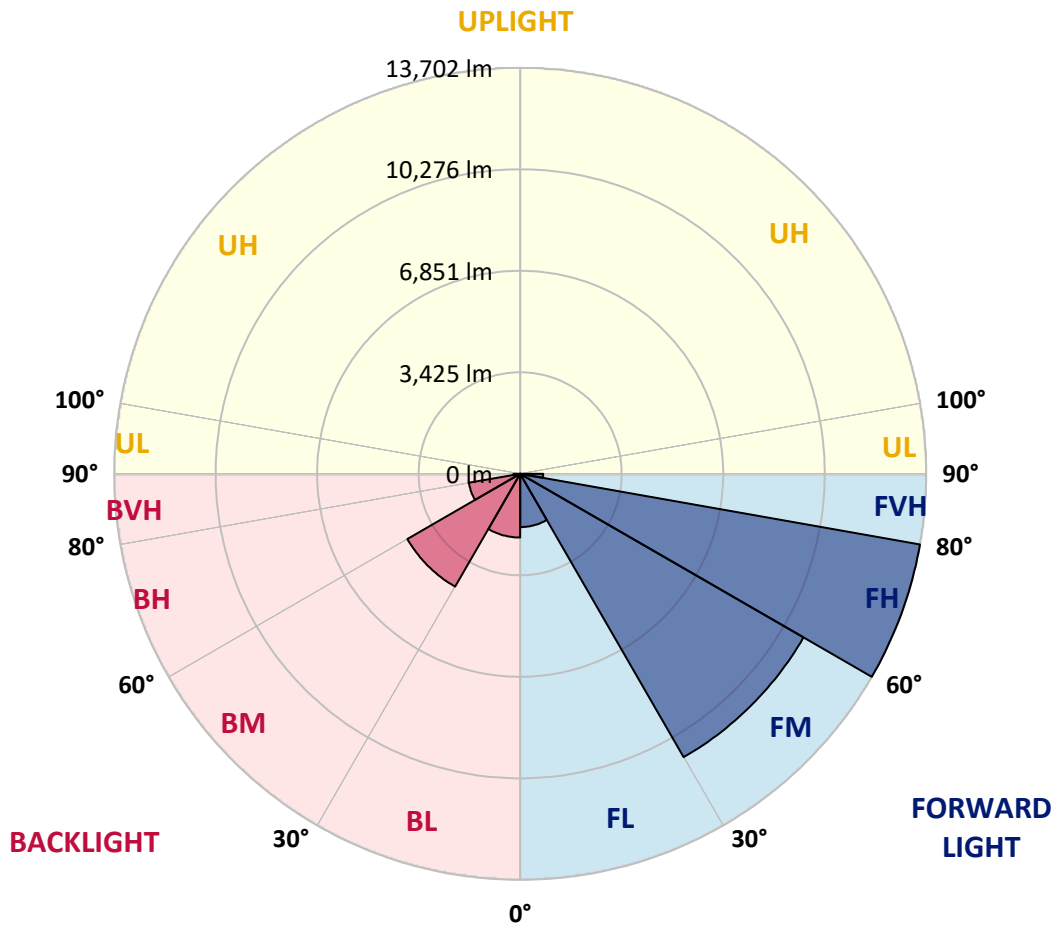
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.9	5.0			
FM (30°-60°)	11040.2	30.8			
FH (60°-80°)	13701.7	38.2			G5
FVH (80°-90°)	779.6	2.2			G5
BL (0°-30°)	2150.1	6.0	B3/2500		
BM (30°-60°)	4396.0	12.3	B3/5000		
BH (60°-80°)	1759.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	226.6	0.6			G3/500
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°	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4
2.5°	4405.3	4432.4	4444.0	4438.2	4467.3	4463.4	4504.1	4554.5	4624.3	4692.1
5°	4066.1	4095.2	4120.4	4143.6	4199.8	4217.3	4281.2	4378.1	4506.1	4635.9
7.5°	3750.2	3775.4	3814.2	3856.8	3951.8	3969.2	4075.8	4227.0	4405.3	4595.2
10°	3492.4	3517.6	3558.3	3606.8	3725.0	3746.3	3882.0	4083.6	4316.1	4556.4
12.5°	3382.0	3389.7	3413.0	3461.4	3564.1	3577.7	3726.9	3957.6	4228.9	4527.4
15°	3376.2	3391.7	3393.6	3418.8	3504.1	3509.9	3647.5	3876.2	4174.6	4521.6
17.5°	3434.3	3445.9	3428.5	3444.0	3515.7	3525.4	3633.9	3837.4	4157.2	4546.8
20°	3589.3	3599.0	3546.7	3525.4	3577.7	3585.5	3692.1	3862.6	4174.6	4599.1
22.5°	3918.8	3924.6	3796.7	3709.5	3713.4	3717.3	3810.3	3965.3	4242.5	4694.1
25°	4432.4	4428.5	4225.0	4056.4	3959.5	3938.2	4000.2	4132.0	4356.8	4820.0
27.5°	5033.2	5004.1	4800.6	4548.7	4337.4	4306.4	4292.9	4349.1	4519.6	4986.7
30°	5711.5	5684.4	5465.4	5135.9	4843.3	4792.9	4665.0	4635.9	4761.9	5213.5
32.5°	6455.8	6438.3	6176.7	5777.4	5385.9	5327.8	5112.7	5035.2	5134.0	5556.5
35°	7079.8	7064.3	6847.3	6436.4	5957.7	5886.0	5667.0	5579.8	5630.1	5996.4
37.5°	7643.8	7636.1	7450.0	7126.4	6632.1	6544.9	6298.8	6269.7	6260.0	6575.9
40°	8167.1	8147.7	7953.9	7783.4	7417.1	7337.6	7120.5	7095.3	7021.7	7289.2
42.5°	8746.6	8696.2	8415.2	8335.7	8236.9	8171.0	8041.1	8045.0	7882.2	8093.5
45°	9219.5	9190.4	8901.6	8855.1	8961.7	8934.6	9047.0	9076.1	8760.2	8936.5
47.5°	9727.3	9700.1	9455.9	9423.0	9711.8	9719.5	10116.8	10126.5	9616.8	9812.5
50°	10353.3	10314.5	10072.2	10112.9	10436.6	10465.7	11192.5	11126.6	10405.6	10702.1
52.5°	10766.1	10789.3	10737.0	10802.9	11244.8	11271.9	12250.7	12082.0	11186.6	11580.1
55°	11070.4	11116.9	11279.7	11430.8	12097.5	12124.7	13248.8	12991.0	11834.0	12394.1
57.5°	11461.9	11396.0	11700.2	11994.8	12907.7	12979.4	14219.8	13867.0	12407.6	13095.7
60°	12023.9	11977.4	12213.8	12649.9	13814.7	13929.0	15246.9	14655.8	12828.2	13651.9
62.5°	13163.5	13047.2	13084.0	13469.7	14958.2	15109.3	16405.9	15343.8	13037.5	13869.0
65°	14867.1	14667.5	14481.4	14748.9	16568.7	16718.0	17714.1	15884.6	12960.0	13448.4
67.5°	17012.5	16814.9	16586.2	16838.1	18940.9	19059.2	19328.6	16188.9	12349.5	11828.2
70°	18782.0	18708.4	18981.6	20018.5	22729.9	22733.8	21398.4	15936.9	10676.9	8386.1
72.5°	18547.5	18502.9	19942.9	23148.5	27505.4	27402.6	23357.8	14029.8	7192.2	3783.1
75°	15215.9	15504.7	17735.4	23092.3	29220.6	29207.0	22158.2	8919.1	2975.0	1567.9
77.5°	8159.4	8616.7	11514.2	17049.4	22811.3	23154.3	15578.4	3120.3	1277.2	1003.9
80°	2661.0	3060.2	4589.4	8680.7	14822.5	14758.5	6676.7	1224.9	874.1	711.3
82.5°	1129.9	1176.4	2050.5	4099.1	7607.0	7488.8	2126.1	703.5	614.4	486.5
85°	441.9	494.2	905.1	1895.5	3294.8	3223.0	767.5	348.9	393.4	317.8
87.5°	145.4	176.4	323.7	649.3	1025.2	988.4	188.0	120.2	170.6	145.4
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°
4777.4	0°	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4	4777.4
4791.0	2.5°	4818.1	4849.1	4885.9	4940.2	4986.7	5025.5	5066.2	5091.4	5101.0	5130.1
4798.7	5°	4853.0	4920.8	5011.9	5101.0	5188.3	5240.6	5287.1	5310.4	5331.7	5347.2
4820.0	7.5°	4911.1	4998.3	5141.7	5258.0	5331.7	5374.3	5405.3	5397.6	5405.3	5409.2
4843.3	10°	4961.5	5083.6	5254.2	5364.6	5420.8	5422.8	5415.0	5387.9	5374.3	5376.3
4878.2	12.5°	5021.6	5157.3	5341.4	5434.4	5449.9	5407.3	5374.3	5327.8	5310.4	5302.6
4930.5	15°	5103.0	5258.0	5436.3	5471.2	5432.5	5378.2	5322.0	5246.4	5207.6	5176.6
5019.6	17.5°	5201.8	5372.4	5510.0	5484.8	5401.5	5312.3	5221.2	5106.9	5027.4	4994.5
5141.7	20°	5339.4	5492.5	5566.2	5455.7	5329.7	5194.1	5039.0	4899.5	4825.8	4792.9
5296.8	22.5°	5506.1	5653.4	5620.5	5405.3	5227.0	5010.0	4816.2	4713.4	4676.6	4653.4
5496.4	25°	5705.7	5831.7	5659.2	5331.7	5058.4	4765.8	4616.5	4583.6	4566.1	4548.7
5740.6	27.5°	5965.4	6033.3	5688.3	5223.1	4794.8	4506.1	4451.8	4457.6	4451.8	4422.7
6079.8	30°	6308.5	6294.9	5715.4	5046.8	4492.5	4271.5	4275.4	4300.6	4304.5	4285.1
6552.7	32.5°	6760.1	6622.4	5729.0	4818.1	4203.7	4066.1	4070.0	4097.1	4116.5	4083.6
7170.9	35°	7306.6	7004.3	5707.7	4531.3	3980.8	3870.4	3841.3	3849.0	3854.9	3823.8
7921.0	37.5°	7944.2	7432.6	5612.7	4213.4	3796.7	3678.5	3616.5	3564.1	3533.1	3504.1
8769.9	40°	8643.9	7899.6	5438.3	3903.3	3591.3	3475.0	3382.0	3283.1	3178.5	3139.7
9669.1	42.5°	9376.5	8380.3	5227.0	3606.8	3354.8	3259.9	3161.0	3017.6	2860.6	2781.2
10603.3	45°	10136.2	8872.6	5019.6	3314.1	3112.6	3071.9	2957.5	2785.0	2614.5	2513.7
11539.4	47.5°	10880.4	9337.7	4715.4	3019.5	2885.8	2930.4	2841.2	2682.3	2492.4	2333.5
12467.7	50°	11591.7	9773.8	4217.3	2721.1	2701.7	2887.8	2802.5	2573.8	2356.7	2153.2
13378.6	52.5°	12297.2	10126.5	3579.6	2449.7	2602.9	2876.1	2752.1	2500.1	2234.6	2021.4
14235.3	55°	12896.0	10308.7	2965.3	2217.2	2459.4	2777.3	2692.0	2412.9	2062.1	1835.4
14822.5	57.5°	13237.1	10161.4	2453.6	1988.5	2261.7	2614.5	2589.3	2226.9	1856.7	1682.3
14936.8	60°	13089.9	9564.5	2035.0	1788.9	2073.8	2438.1	2411.0	2042.7	1699.7	1535.0
14324.4	62.5°	12277.8	8426.8	1703.6	1614.4	1903.2	2257.9	2232.7	1901.3	1579.5	1420.6
12698.4	65°	10642.0	6855.0	1445.8	1469.1	1730.7	2040.8	2077.6	1783.0	1484.6	1329.5
9824.2	67.5°	8116.7	4965.4	1244.3	1343.1	1562.1	1827.6	1934.2	1697.8	1405.1	1257.8
5684.4	70°	4626.2	2819.9	1073.7	1221.0	1412.9	1629.9	1823.7	1629.9	1319.8	1197.7
2130.0	72.5°	1754.0	1294.6	928.3	1098.9	1269.4	1463.3	1701.6	1523.3	1221.0	1129.9
1100.8	75°	936.1	788.8	781.0	955.5	1104.7	1300.5	1548.5	1418.7	1147.3	1193.9
761.7	77.5°	637.6	558.2	653.1	817.9	924.5	1120.2	1385.7	1259.8	994.2	990.4
527.2	80°	441.9	395.4	531.0	659.0	715.2	941.9	1209.4	1081.5	810.1	755.9
325.6	82.5°	265.5	257.8	397.3	492.3	505.8	726.8	1002.0	907.0	662.8	577.6
193.8	85°	145.4	153.1	253.9	288.8	294.6	507.8	784.9	701.6	509.7	428.3
69.8	87.5°	40.7	52.3	93.0	114.3	141.5	263.6	467.1	416.7	255.8	178.3
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°  
4777.4  
5128.2  
5351.1  
5415.0  
5380.1  
5298.7  
5186.3  
4996.4  
4789.0  
4657.2  
4548.7  
4428.5  
4294.8  
4099.1  
3845.2  
3523.4  
3157.1  
2790.8  
2505.9  
2316.0  
2135.8  
1998.2  
1816.0  
1659.0  
1511.7  
1395.4  
1304.3  
1234.6  
1182.2  
1114.4  
*1232.6*  
912.8  
722.9  
581.4  
432.2  
178.3  
0.0

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