

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: P942779

Luminaire Tested: **GALN-SB6D-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942779  
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-SB6D-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

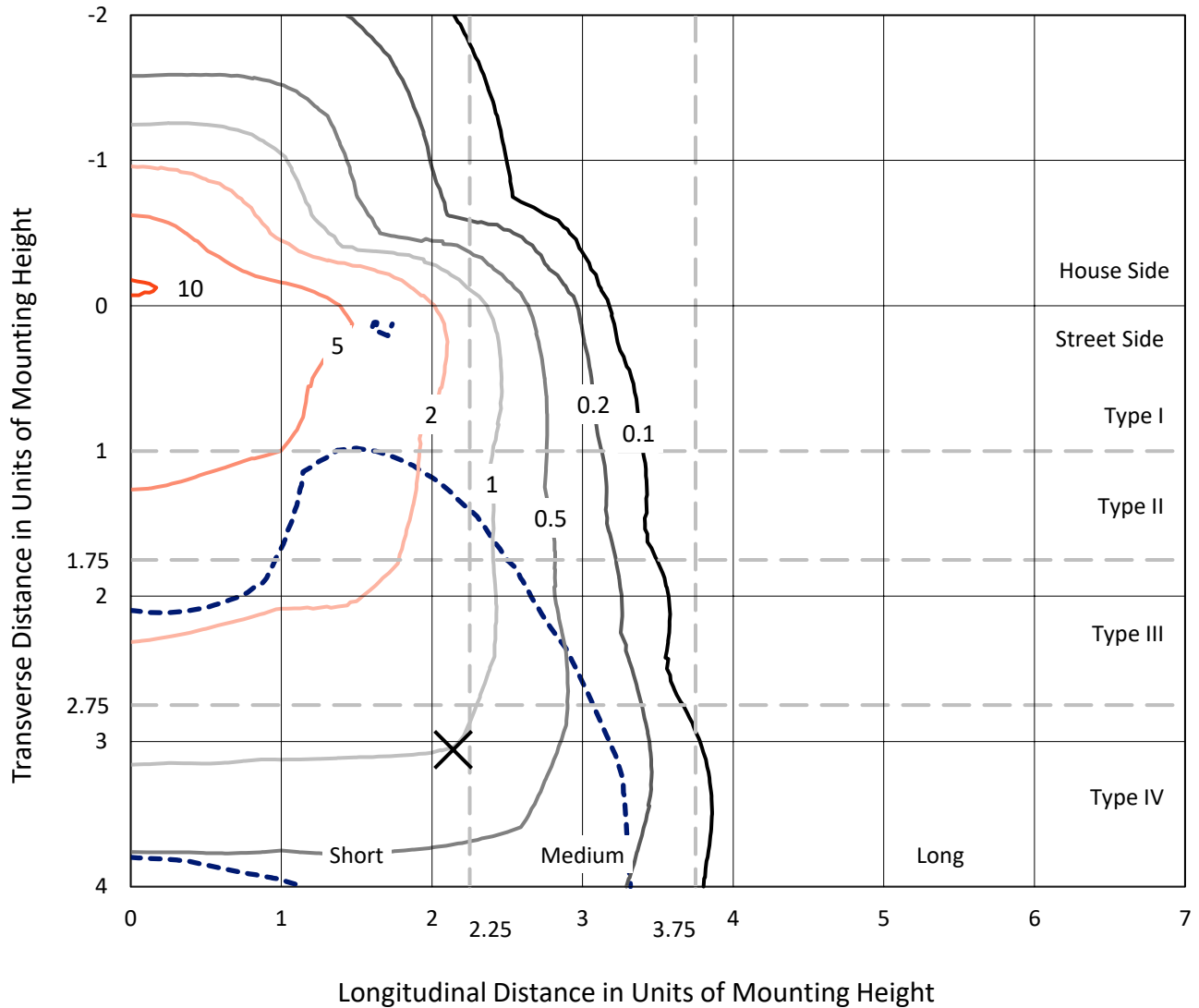
Lumens per Lamp: N/A  
Luminaire Lumens: 44196 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

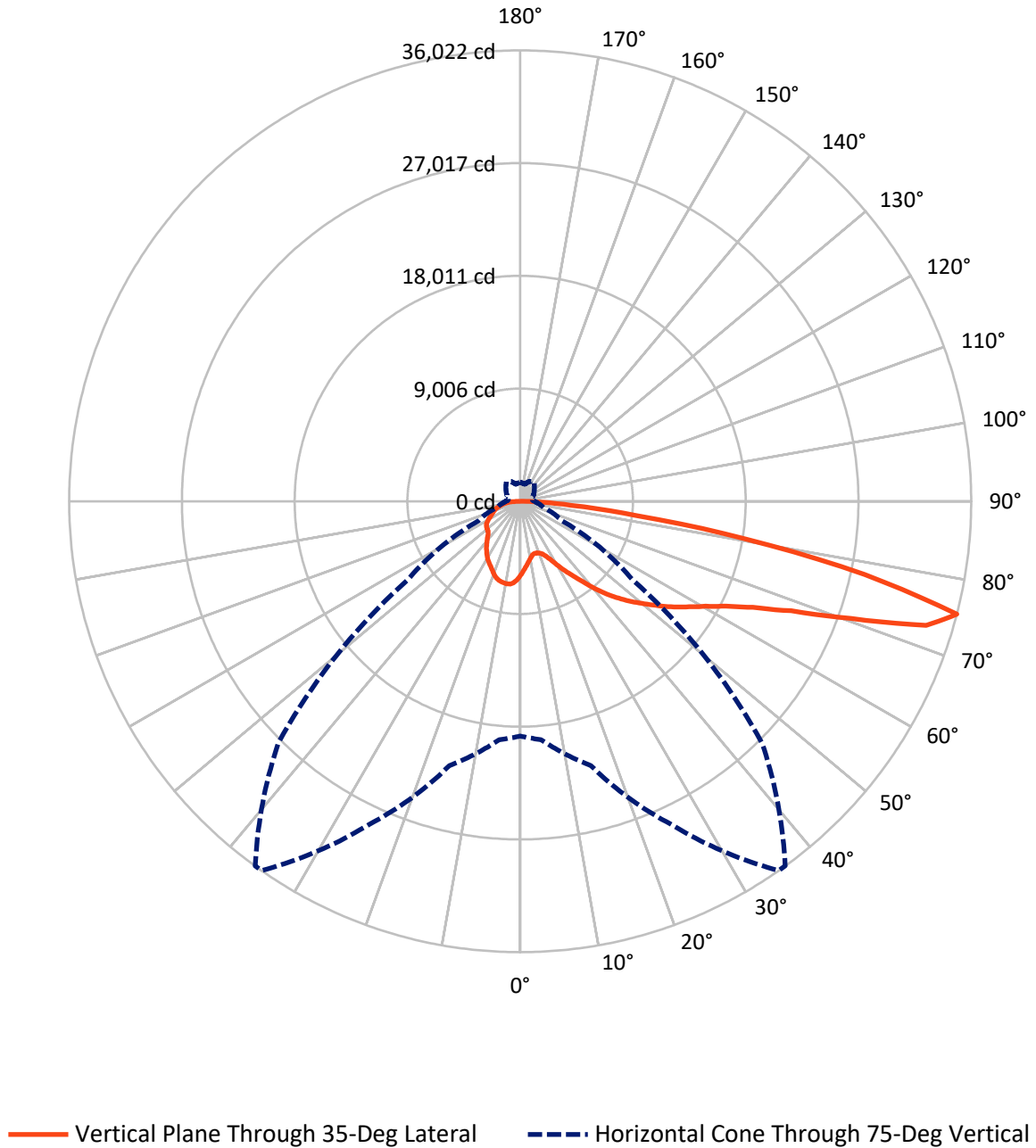
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10517.5	0.0	10517.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	33678.5	0.0	33678.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	44196.0	0.0	44196.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.6	1.3
10°-20°	1608.4	3.6
20°-30°	2700.9	6.1
30°-40°	4197.6	9.5
40°-50°	6230.3	14.1
50°-60°	8601.3	19.5
60°-70°	10435.4	23.6
70°-80°	8624.1	19.5
80°-90°	1240.4	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°	44196.0	100.0
0°-180°	44196.0	100.0

**Coefficient of Utilization**



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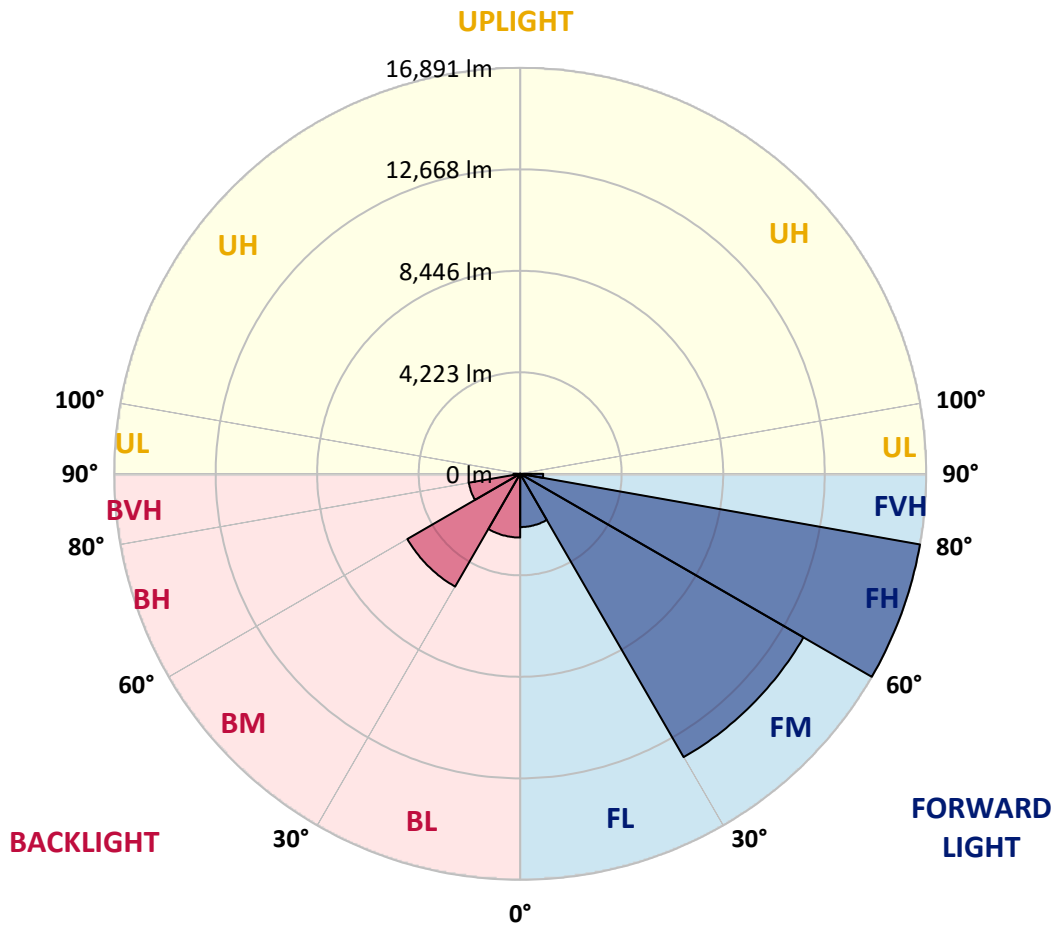
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.3	5.0			
FM (30°-60°)	13610.0	30.8			
FH (60°-80°)	16891.0	38.2			G5
FVH (80°-90°)	961.1	2.2			G5
BL (0°-30°)	2650.6	6.0	B4/5000		
BM (30°-60°)	5419.3	12.3	B4/8500		
BH (60°-80°)	2168.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	279.3	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4
2.5°	5430.7	5464.1	5478.5	5471.3	5507.1	5502.4	5552.5	5614.7	5700.7	5784.3
5°	5012.6	5048.4	5079.5	5108.1	5177.4	5198.9	5277.8	5397.2	5554.9	5715.0
7.5°	4623.1	4654.2	4702.0	4754.5	4871.6	4893.1	5024.5	5210.9	5430.7	5664.8
10°	4305.4	4336.4	4386.6	4446.3	4592.1	4618.4	4785.6	5034.1	5320.8	5617.0
12.5°	4169.2	4178.7	4207.4	4267.1	4393.8	4410.5	4594.5	4878.8	5213.3	5581.2
15°	4162.0	4181.1	4183.5	4214.6	4319.7	4326.9	4496.5	4778.4	5146.4	5574.0
17.5°	4233.7	4248.0	4226.5	4245.6	4334.0	4346.0	4479.8	4730.6	5124.9	5605.1
20°	4424.8	4436.8	4372.3	4346.0	4410.5	4420.0	4551.5	4761.7	5146.4	5669.6
22.5°	4831.0	4838.2	4680.5	4573.0	4577.7	4582.5	4697.2	4888.3	5230.0	5786.7
25°	5464.1	5459.4	5208.5	5000.6	4881.2	4854.9	4931.3	5093.8	5371.0	5942.0
27.5°	6204.8	6169.0	5918.1	5607.5	5347.1	5308.8	5292.1	5361.4	5571.7	6147.5
30°	7041.0	7007.6	6737.6	6331.4	5970.6	5908.5	5750.8	5715.0	5870.3	6427.0
32.5°	7958.5	7937.0	7614.4	7122.3	6639.6	6568.0	6302.8	6207.2	6329.0	6849.9
35°	8727.8	8708.7	8441.1	7934.6	7344.4	7256.0	6986.1	6878.6	6940.7	7392.2
37.5°	9423.1	9413.5	9184.1	8785.1	8175.9	8068.4	7765.0	7729.1	7717.2	8106.6
40°	10068.2	10044.3	9805.3	9595.1	9143.5	9045.6	8778.0	8746.9	8656.1	8985.8
42.5°	10782.5	10720.4	10374.0	10276.0	10154.2	10072.9	9912.9	9917.6	9716.9	9977.4
45°	11365.5	11329.7	10973.7	10916.3	11047.7	11014.3	11152.9	11188.7	10799.3	11016.7
47.5°	11991.5	11958.0	11657.0	11616.4	11972.4	11981.9	12471.7	12483.7	11855.3	12096.6
50°	12763.2	12715.4	12416.8	12466.9	12865.9	12901.8	13797.7	13716.5	12827.7	13193.2
52.5°	13272.1	13300.8	13236.3	13317.5	13862.2	13895.7	15102.2	14894.4	13790.6	14275.6
55°	13647.2	13704.5	13905.2	14091.6	14913.5	14946.9	16332.7	16014.9	14588.5	15279.0
57.5°	14129.8	14048.6	14423.7	14786.9	15912.2	16000.6	17529.7	17094.8	15295.8	16143.9
60°	14822.7	14765.4	15056.8	15594.4	17030.3	17171.3	18796.0	18067.2	15814.2	16829.6
62.5°	16227.6	16084.2	16129.6	16605.0	18440.0	18626.3	20224.7	18915.4	16072.3	17097.2
65°	18327.7	18081.6	17852.2	18181.9	20425.4	20609.4	21837.4	19582.0	15976.7	16578.8
67.5°	20972.5	20728.8	20446.9	20757.5	23349.8	23495.5	23827.6	19957.1	15224.1	14581.4
70°	23153.9	23063.1	23400.0	24678.2	28020.7	28025.5	26379.3	19646.5	13162.2	10338.1
72.5°	22864.8	22809.8	24585.0	28536.8	33907.7	33781.1	28794.8	17295.5	8866.4	4663.7
75°	18757.7	19113.7	21863.7	28467.5	36022.2	36005.5	27315.9	10995.2	3667.4	1932.9
77.5°	10058.6	10622.5	14194.3	21017.9	28121.1	28544.0	19204.5	3846.6	1574.5	1237.6
80°	3280.4	3772.6	5657.7	10701.3	18272.7	18193.9	8230.8	1510.0	1077.5	876.8
82.5°	1392.9	1450.3	2527.8	5053.2	9377.7	9231.9	2621.0	867.3	757.4	599.7
85°	544.7	609.2	1115.8	2336.7	4061.7	3973.3	946.1	430.1	485.0	391.8
87.5°	179.2	217.4	399.0	800.4	1263.9	1218.5	231.8	148.1	210.3	179.2
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°
5889.4	0°	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4	5889.4
5906.1	2.5°	5939.6	5977.8	6023.2	6090.1	6147.5	6195.2	6245.4	6276.5	6288.4	6324.3
5915.7	5°	5982.6	6066.2	6178.5	6288.4	6395.9	6460.4	6517.8	6546.5	6572.7	6591.8
5942.0	7.5°	6054.3	6161.8	6338.6	6481.9	6572.7	6625.3	6663.5	6654.0	6663.5	6668.3
5970.6	10°	6116.4	6266.9	6477.2	6613.3	6682.6	6685.0	6675.5	6642.0	6625.3	6627.7
6013.7	12.5°	6190.5	6357.7	6584.7	6699.4	6718.5	6665.9	6625.3	6568.0	6546.5	6536.9
6078.2	15°	6290.8	6481.9	6701.7	6744.8	6697.0	6630.1	6560.8	6467.6	6419.8	6381.6
6188.1	17.5°	6412.7	6622.9	6792.5	6761.5	6658.7	6548.8	6436.5	6295.6	6197.6	6157.0
6338.6	20°	6582.3	6771.0	6861.8	6725.6	6570.3	6403.1	6212.0	6039.9	5949.1	5908.5
6529.7	22.5°	6787.8	6969.3	6928.7	6663.5	6443.7	6176.1	5937.2	5810.6	5765.2	5736.5
6775.8	25°	7033.9	7189.1	6976.5	6572.7	6235.9	5875.1	5691.1	5650.5	5629.0	5607.5
7076.9	27.5°	7354.0	7437.6	7012.3	6438.9	5910.9	5554.9	5488.0	5495.2	5488.0	5452.2
7495.0	30°	7776.9	7760.2	7045.8	6221.5	5538.2	5265.8	5270.6	5301.7	5306.4	5282.6
8077.9	32.5°	8333.6	8163.9	7062.5	5939.6	5182.2	5012.6	5017.4	5050.8	5074.7	5034.1
8840.1	35°	9007.3	8634.6	7036.2	5586.0	4907.4	4771.3	4735.4	4745.0	4752.1	4713.9
9764.7	37.5°	9793.4	9162.6	6919.2	5194.2	4680.5	4534.7	4458.3	4393.8	4355.5	4319.7
10811.2	40°	10655.9	9738.4	6704.1	4811.9	4427.2	4283.9	4169.2	4047.3	3918.3	3870.5
11919.8	42.5°	11559.0	10331.0	6443.7	4446.3	4135.7	4018.7	3896.8	3720.0	3526.5	3428.5
13071.4	45°	12495.6	10937.8	6188.1	4085.6	3837.1	3786.9	3645.9	3433.3	3223.1	3098.8
14225.4	47.5°	13413.1	11511.2	5813.0	3722.4	3557.5	3612.5	3502.6	3306.7	3072.5	2876.6
15369.8	50°	14289.9	12048.8	5198.9	3354.5	3330.6	3559.9	3454.8	3172.9	2905.3	2654.4
16492.8	52.5°	15159.6	12483.7	4412.9	3020.0	3208.7	3545.6	3392.7	3082.1	2754.8	2492.0
17548.8	55°	15897.8	12708.2	3655.5	2733.3	3031.9	3423.7	3318.6	2974.6	2542.1	2262.6
18272.7	57.5°	16318.3	12526.7	3024.7	2451.3	2788.2	3223.1	3192.0	2745.2	2288.9	2073.8
18413.7	60°	16136.8	11790.8	2508.7	2205.2	2556.5	3005.6	2972.2	2518.2	2095.3	1892.3
17658.7	62.5°	15135.7	10388.3	2100.1	1990.2	2346.2	2783.4	2752.4	2343.8	1947.2	1751.3
15654.1	65°	13119.2	8450.7	1782.4	1811.0	2133.6	2515.8	2561.2	2198.1	1830.1	1639.0
12110.9	67.5°	10006.0	6121.2	1533.9	1655.7	1925.7	2253.0	2384.4	2093.0	1732.2	1550.6
7007.6	70°	5703.1	3476.3	1323.6	1505.2	1741.7	2009.3	2248.3	2009.3	1627.1	1476.5
2625.7	72.5°	2162.2	1596.0	1144.4	1354.7	1564.9	1803.9	2097.7	1877.9	1505.2	1392.9
1357.1	75°	1154.0	972.4	962.9	1177.9	1361.9	1603.2	1909.0	1748.9	1414.4	1471.8
939.0	77.5°	786.1	688.1	805.2	1008.2	1139.7	1381.0	1708.3	1553.0	1225.7	1220.9
649.9	80°	544.7	487.4	654.6	812.3	881.6	1161.2	1490.9	1333.2	998.7	931.8
401.4	82.5°	327.3	317.8	489.8	606.9	623.6	896.0	1235.2	1118.2	817.1	712.0
238.9	85°	179.2	188.7	313.0	356.0	363.2	626.0	967.6	864.9	628.4	528.0
86.0	87.5°	50.2	64.5	114.7	141.0	174.4	324.9	575.8	513.7	315.4	219.8
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°  
5889.4  
6321.9  
6596.6  
6675.5  
6632.5  
6532.1  
6393.5  
6159.4  
5903.8  
5741.3  
5607.5  
5459.4  
5294.5  
5053.2  
4740.2  
4343.6  
3892.0  
3440.5  
3089.3  
2855.1  
2632.9  
2463.3  
2238.7  
2045.2  
1863.6  
1720.2  
1607.9  
1521.9  
1457.4  
1373.8  
*1519.5*  
1125.3  
891.2  
716.8  
532.8  
219.8  
0.0

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