

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: P943757

Luminaire Tested: **GALN-SB8B-850-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943757  
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-SB8B-850-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

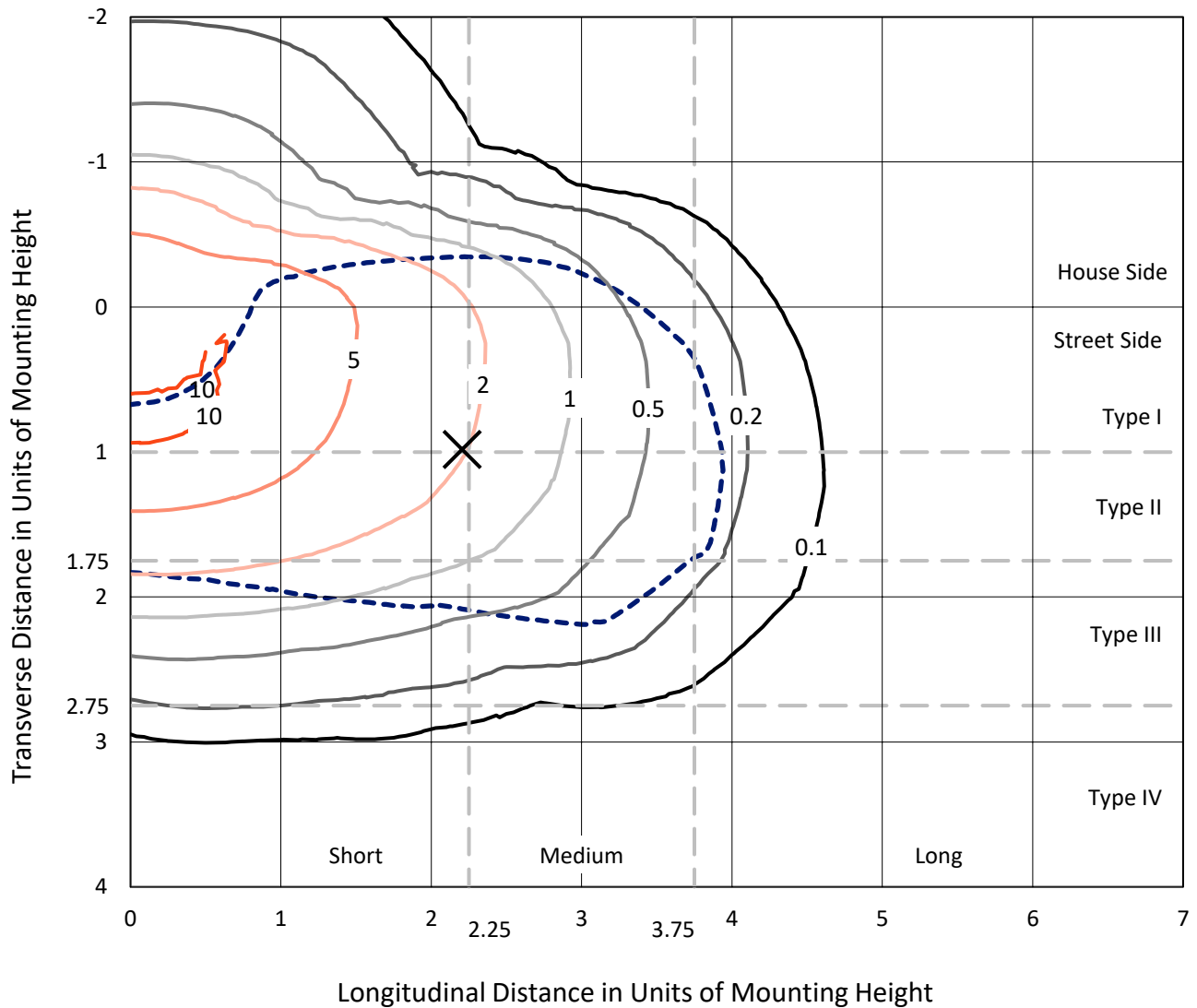
Lumens per Lamp: N/A  
Luminaire Lumens: 43583 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

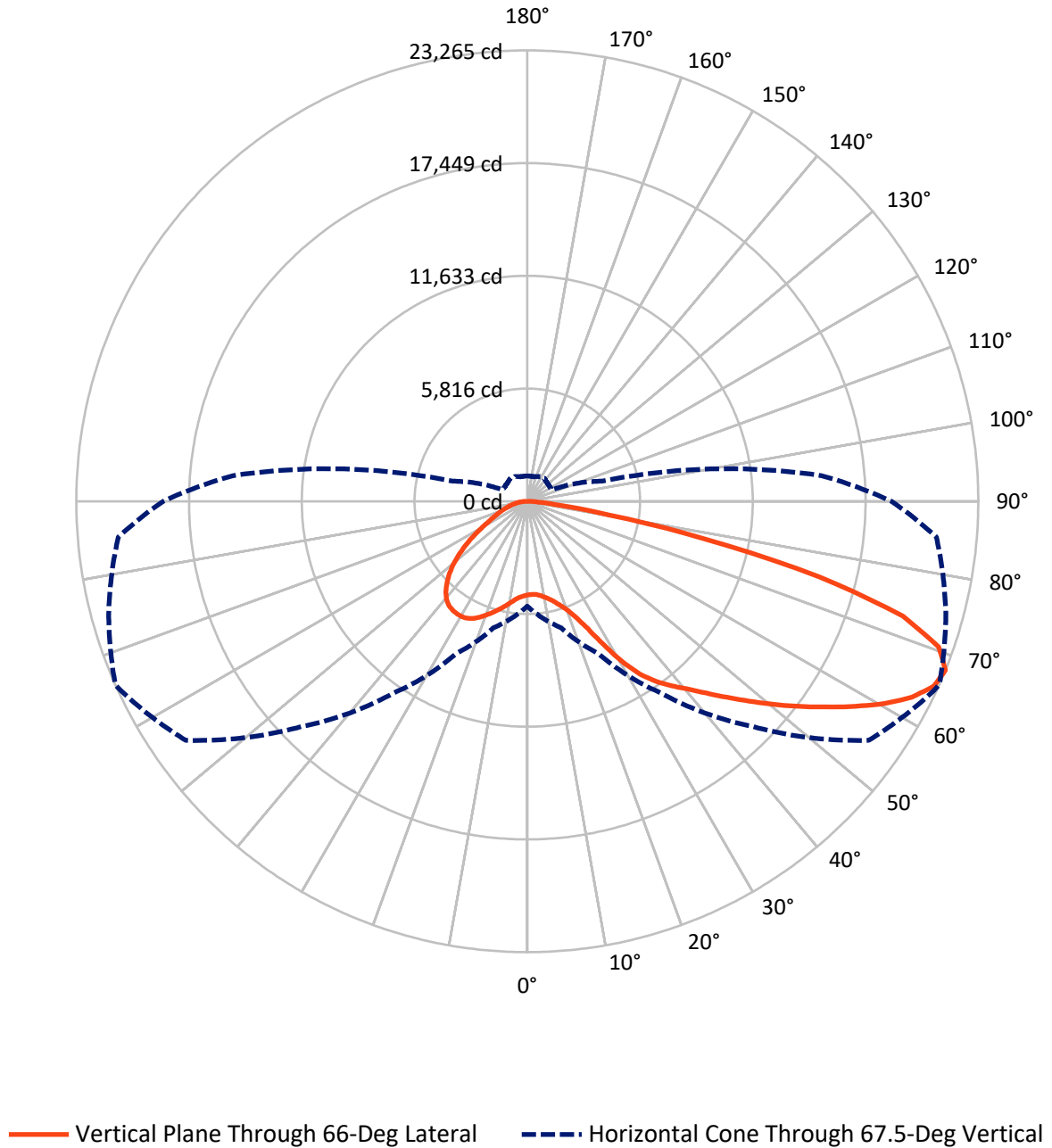
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type III - 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	10836.8	0.0	10836.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	32746.2	0.0	32746.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	43583.0	0.0	43583.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.3	1.1
10°-20°	1583.4	3.6
20°-30°	3052.0	7.0
30°-40°	5351.2	12.3
40°-50°	7955.5	18.3
50°-60°	10084.4	23.1
60°-70°	9867.3	22.6
70°-80°	4706.8	10.8
80°-90°	503.0	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°	43583.0	100.0
0°-180°	43583.0	100.0

**Coefficient of Utilization**



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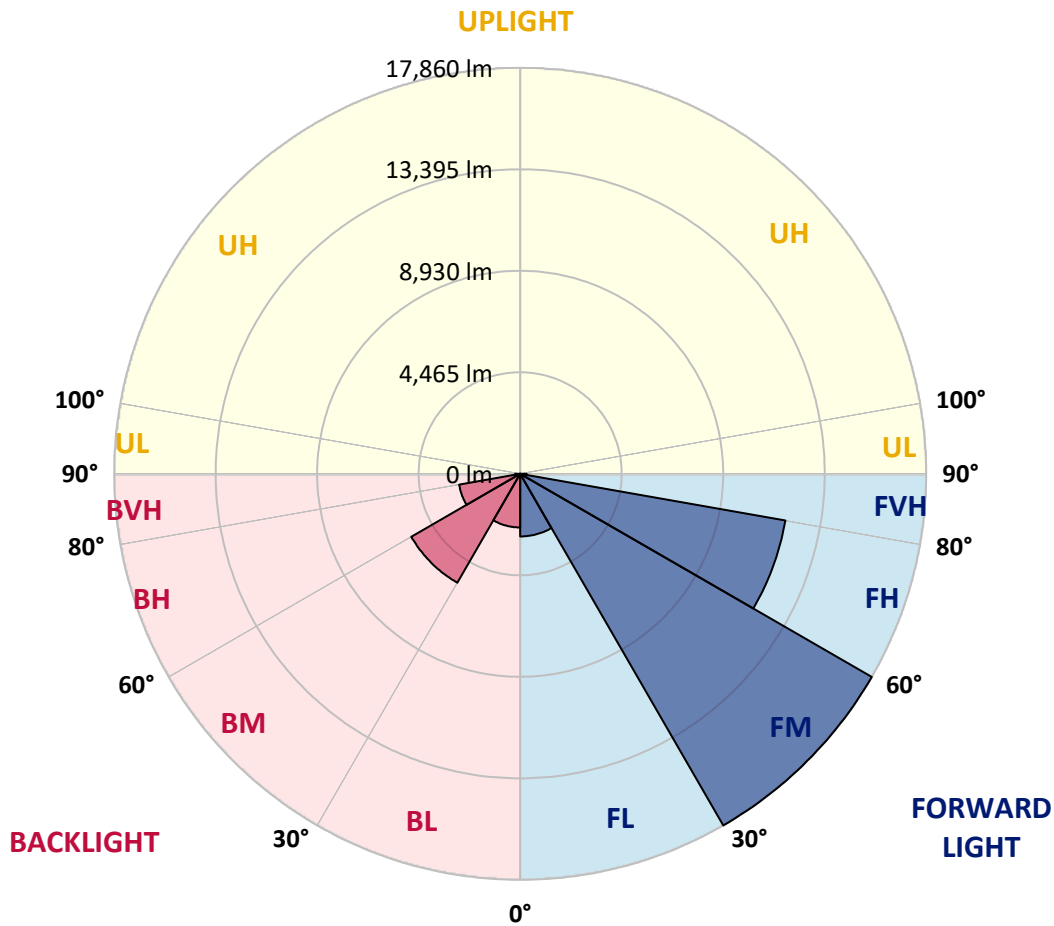
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2754.0	6.3			
FM (30°-60°)	17859.9	41.0			
FH (60°-80°)	11847.1	27.2			G4/12000
FVH (80°-90°)	285.2	0.7			G3/500
BL (0°-30°)	2360.6	5.4	B3/2500		
BM (30°-60°)	5531.2	12.7	B4/8500		
BH (60°-80°)	2727.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	217.8	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°	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9
2.5°	4783.6	4811.0	4804.2	4792.7	4790.4	4795.0	4801.9	4808.7	4806.5	4817.9
5°	4769.8	4797.3	4795.0	4795.0	4804.2	4822.5	4833.9	4845.4	4833.9	4847.7
7.5°	4779.0	4799.6	4808.7	4817.9	4840.8	4875.1	4902.6	4927.8	4914.1	4930.1
10°	4895.8	4911.8	4920.9	4920.9	4937.0	4975.9	5003.4	5049.2	5037.7	5062.9
12.5°	5108.7	5124.7	5124.7	5115.6	5127.0	5152.2	5161.4	5211.8	5191.2	5232.4
15°	5369.8	5401.8	5376.6	5360.6	5365.2	5390.4	5388.1	5427.0	5406.4	5440.7
17.5°	5658.3	5699.5	5658.3	5656.0	5646.8	5674.3	5676.6	5711.0	5674.3	5699.5
20°	5999.5	6056.7	6022.4	6033.8	6013.2	6024.7	6036.1	6086.5	6029.2	6047.6
22.5°	6480.4	6549.0	6512.4	6555.9	6542.2	6533.0	6530.7	6620.0	6530.7	6537.6
25°	7181.1	7263.5	7199.4	7258.9	7258.9	7288.7	7323.0	7437.5	7288.7	7245.2
27.5°	8216.1	8298.5	8172.6	8209.2	8197.8	8271.0	8234.4	8518.3	8358.1	8287.1
30°	9461.8	9608.3	9370.2	9361.0	9349.6	9466.4	9519.0	9706.8	9544.2	9473.2
32.5°	10808.2	10961.6	10677.7	10595.3	10551.8	10622.7	10579.2	10730.4	10618.2	10508.2
35°	12232.5	12383.7	12113.5	11953.2	11779.1	11630.3	11474.6	11513.5	11408.2	11241.0
37.5°	13579.0	13856.0	13569.8	13398.1	13077.5	12786.7	12351.6	12170.7	12072.2	11918.8
40°	14950.6	15108.6	14891.1	14744.5	14396.5	13940.8	13244.6	12862.2	12729.4	12580.6
42.5°	15960.4	16111.6	15994.8	15894.0	15621.5	15092.6	14192.7	13714.1	13521.7	13354.6
45°	16761.9	16874.1	16800.8	16837.5	16720.7	16207.8	15175.0	14627.7	14428.5	14224.7
47.5°	17084.8	17203.8	17320.6	17538.2	17737.4	17359.6	16230.6	15617.0	15406.3	15197.9
50°	17048.1	17169.5	17508.4	17971.0	18589.2	18463.3	17343.5	16670.3	16475.7	16237.5
52.5°	16755.0	16892.4	17327.5	18096.9	19081.5	19289.9	18477.0	17758.0	17574.8	17290.9
55°	15985.6	16068.1	16720.7	17810.7	19198.3	19867.0	19587.6	18916.7	18733.5	18337.3
57.5°	14559.0	14678.1	15628.4	17039.0	18905.2	20258.5	20563.1	20134.9	19958.6	19388.4
60°	12697.4	12887.4	13975.1	15742.9	18158.7	20256.3	21449.3	21332.5	21185.9	20423.4
62.5°	10590.7	10810.5	11857.0	13911.0	16853.5	19681.5	22003.4	22335.5	22259.9	21378.3
65°	8133.6	8284.8	9326.7	11541.0	14822.4	18447.3	22067.5	23020.1	23033.9	22104.2
67.5°	5415.6	5850.6	6755.1	8660.3	12102.0	16429.9	21504.2	23132.3	23265.2	22353.8
70°	2642.5	3215.0	4101.2	5628.5	8660.3	13336.2	20031.8	22211.8	22507.2	21625.6
72.5°	1096.9	1282.3	1765.5	2777.6	4971.3	8999.2	17073.3	19715.8	20263.1	19161.7
75°	739.6	801.5	1009.8	1424.3	2264.7	4437.8	12312.7	14701.0	15582.6	14472.0
77.5°	570.2	609.1	735.1	996.1	1346.4	1678.5	6590.3	8859.5	9315.2	8623.7
80°	448.8	478.6	549.6	725.9	954.9	897.6	2246.4	4014.2	4277.5	3588.2
82.5°	389.3	400.7	393.9	492.3	634.3	524.4	737.3	1481.6	1635.0	1186.2
85°	281.7	313.7	327.5	304.6	336.6	265.6	302.3	524.4	577.0	515.2
87.5°	114.5	169.5	208.4	196.9	123.7	75.6	93.9	153.4	176.3	192.3
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°
4833.9	0°	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9
4836.2	2.5°	4838.5	4854.5	4866.0	4879.7	4888.9	4902.6	4930.1	4946.1	4948.4	4959.9
4872.9	5°	4882.0	4904.9	4930.1	4966.7	5008.0	5042.3	5095.0	5131.6	5145.4	5156.8
4962.2	7.5°	4975.9	5008.0	5053.8	5117.9	5177.4	5223.2	5287.3	5330.8	5374.3	5390.4
5104.1	10°	5115.6	5161.4	5227.8	5314.8	5378.9	5438.5	5504.9	5541.5	5585.0	5603.3
5273.6	12.5°	5289.6	5337.7	5424.7	5546.1	5605.6	5646.8	5669.7	5660.6	5669.7	5685.8
5477.4	15°	5488.8	5541.5	5640.0	5770.5	5811.7	5775.1	5724.7	5678.9	5672.0	5676.6
5724.7	17.5°	5724.7	5763.6	5878.1	5988.0	5958.3	5807.1	5697.2	5623.9	5587.3	5575.9
6040.7	20°	6054.4	6054.4	6148.3	6217.0	6017.8	5761.3	5589.6	5470.5	5395.0	5362.9
6471.2	22.5°	6455.2	6418.5	6478.1	6430.0	6006.3	5633.1	5395.0	5188.9	5074.4	5028.6
7073.4	25°	6963.5	6920.0	6904.0	6606.3	5923.9	5429.3	5042.3	4792.7	4692.0	4666.8
7941.3	27.5°	7730.6	7620.7	7412.3	6702.5	5772.8	5108.7	4630.1	4398.9	4341.6	4343.9
9056.5	30°	8751.9	8532.1	8021.4	6718.5	5525.5	4655.3	4208.8	4043.9	4016.4	4027.9
9993.0	32.5°	9697.6	9489.3	8644.3	6645.2	5145.4	4211.1	3831.0	3721.1	3679.8	3693.6
10707.5	35°	10439.5	10382.3	9221.3	6542.2	4678.2	3794.3	3492.1	3398.2	3318.0	3299.7
11380.7	37.5°	11140.3	11117.4	9654.1	6397.9	4215.7	3498.9	3219.6	3095.9	2979.1	2915.0
12124.9	40°	11909.7	11886.8	9938.1	6175.8	3805.8	3242.5	2974.6	2812.0	2667.7	2550.9
12967.6	42.5°	12775.2	12640.1	10073.2	5857.5	3457.7	3024.9	2775.3	2555.5	2365.4	2257.8
13920.2	45°	13720.9	13416.4	10070.9	5452.2	3164.6	2825.7	2562.4	2250.9	2074.6	1973.9
14897.9	47.5°	14723.9	14158.3	9947.2	5003.4	2880.7	2605.9	2232.6	1994.5	1877.7	1815.9
15960.4	50°	15758.9	14852.1	9736.6	4488.2	2589.9	2356.3	2026.5	1864.0	1774.7	1717.4
17013.8	52.5°	16732.1	15481.9	9482.4	3904.2	2294.5	2113.6	1934.9	1809.0	1715.1	1651.0
18035.1	55°	17636.6	16024.6	9122.9	3306.6	2054.0	1951.0	1891.4	1786.1	1678.5	1602.9
19072.4	57.5°	18440.4	16377.2	8502.3	2745.6	1882.3	1838.8	1845.6	1747.2	1623.5	1559.4
20093.7	60°	19109.0	16636.0	7584.1	2225.8	1742.6	1728.9	1774.7	1673.9	1529.6	1456.4
20957.0	62.5°	19509.8	16631.4	6457.5	1822.7	1623.5	1628.1	1680.8	1582.3	1435.8	1367.1
21408.1	65°	19475.4	16223.8	5220.9	1559.4	1509.0	1513.6	1582.3	1481.6	1357.9	1316.7
21181.4	67.5°	18786.2	15230.0	4005.0	1387.7	1383.1	1403.7	1483.8	1412.9	1309.8	1305.2
19830.3	70°	16919.9	13166.8	2885.2	1250.3	1252.6	1282.3	1387.7	1369.3	1284.6	1293.8
16672.6	72.5°	13567.5	10038.8	1937.2	1106.0	1108.3	1156.4	1296.1	1335.0	1259.4	1380.8
11829.5	75°	9035.9	6260.5	1245.7	952.6	954.9	1016.7	1215.9	1268.6	1190.7	1376.2
6155.2	77.5°	4341.6	2814.3	902.2	801.5	801.5	858.7	1051.1	1135.8	1014.4	1069.4
1978.5	80°	1499.9	1057.9	709.9	645.7	632.0	670.9	886.2	984.6	874.7	806.0
645.7	82.5°	590.8	549.6	570.2	501.5	455.7	480.9	689.3	812.9	643.5	581.6
364.1	85°	338.9	357.2	403.0	332.0	263.3	295.4	506.1	583.9	485.5	428.2
119.1	87.5°	91.6	125.9	185.5	171.7	119.1	125.9	240.4	322.9	279.4	215.2
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°  
4833.9  
4957.6  
5154.5  
5392.7  
5612.5  
5690.3  
5692.6  
5591.9  
5356.0  
5021.7  
4671.3  
4350.8  
4066.8  
3711.9  
3313.5  
2917.3  
2562.4  
2264.7  
1969.3  
1802.1  
1696.8  
1623.5  
1573.1  
1518.2  
1424.3  
1346.4  
1314.4  
*1312.1*  
1291.5  
1399.1  
1387.7  
980.1  
755.7  
579.3  
437.4  
222.1  
0.0

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