

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: P943849

Luminaire Tested: **GALN-SB8C-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943849  
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-SB8C-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

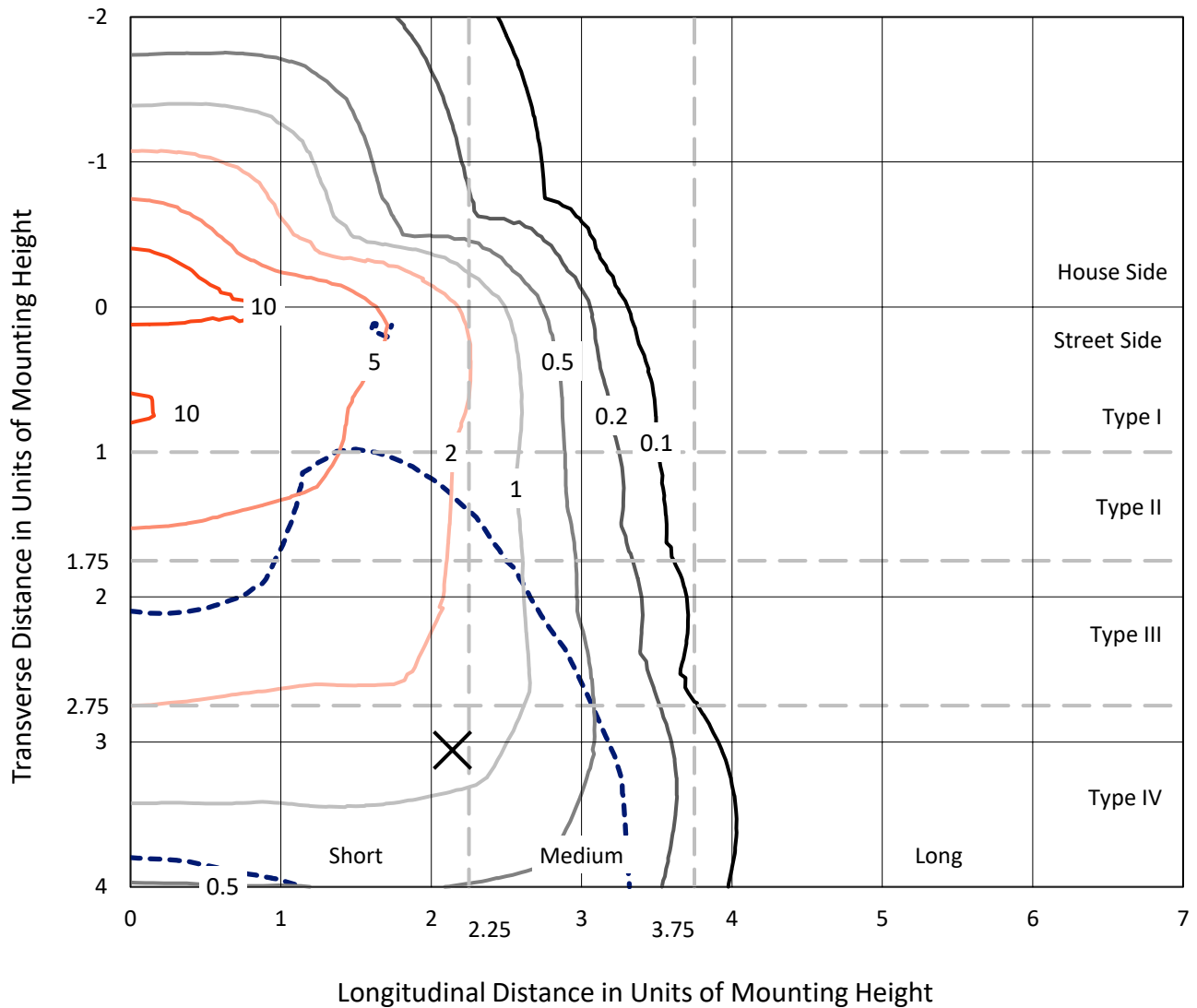
Lumens per Lamp: N/A  
Luminaire Lumens: 59854 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

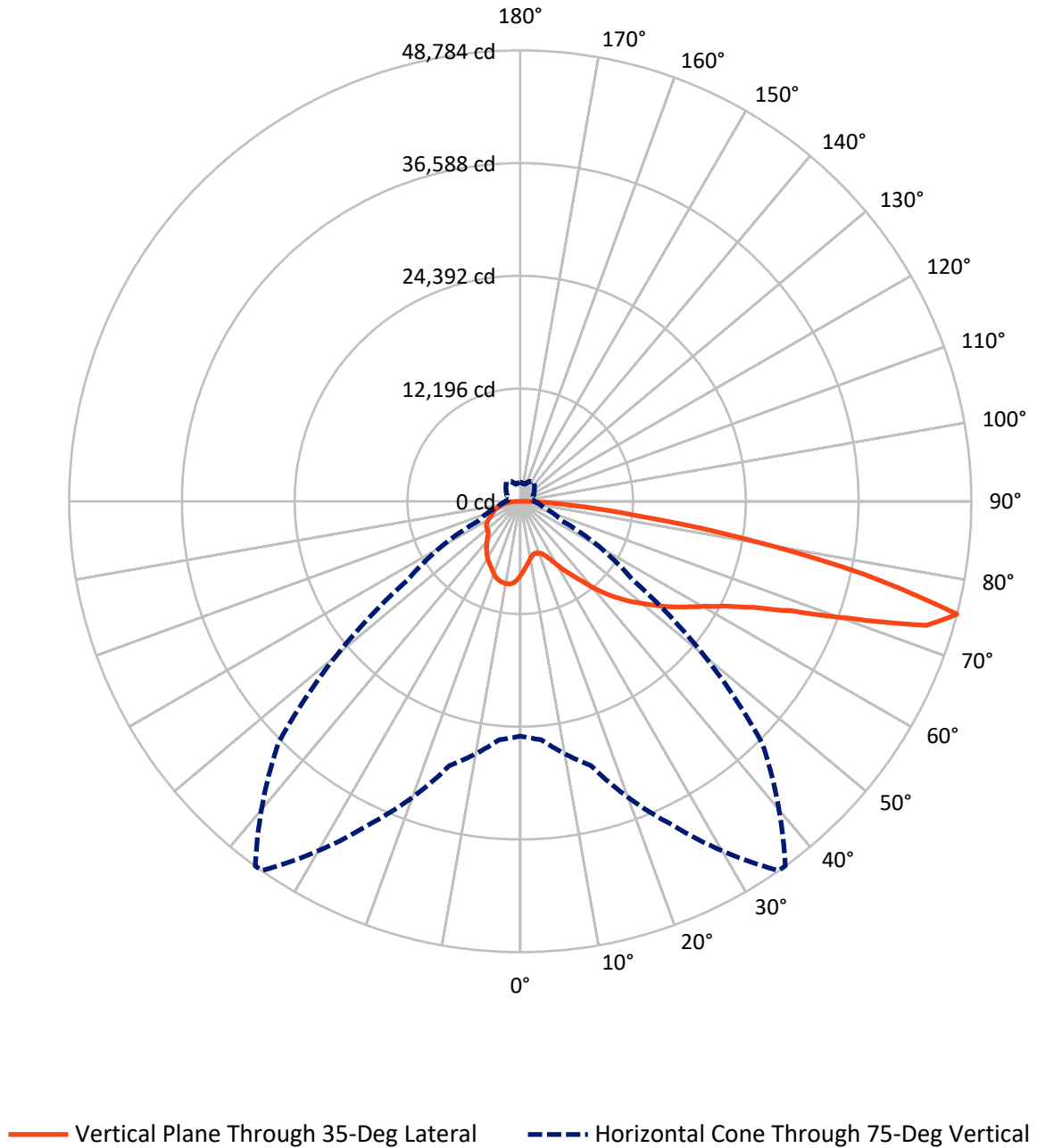
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	14243.7	0.0	14243.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	45610.3	0.0	45610.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	59854.0	0.0	59854.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.2	1.3
10°-20°	2178.2	3.6
20°-30°	3657.8	6.1
30°-40°	5684.7	9.5
40°-50°	8437.6	14.1
50°-60°	11648.7	19.5
60°-70°	14132.5	23.6
70°-80°	11679.4	19.5
80°-90°	1679.9	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°	59854.0	100.0
0°-180°	59854.0	100.0

**Coefficient of Utilization**



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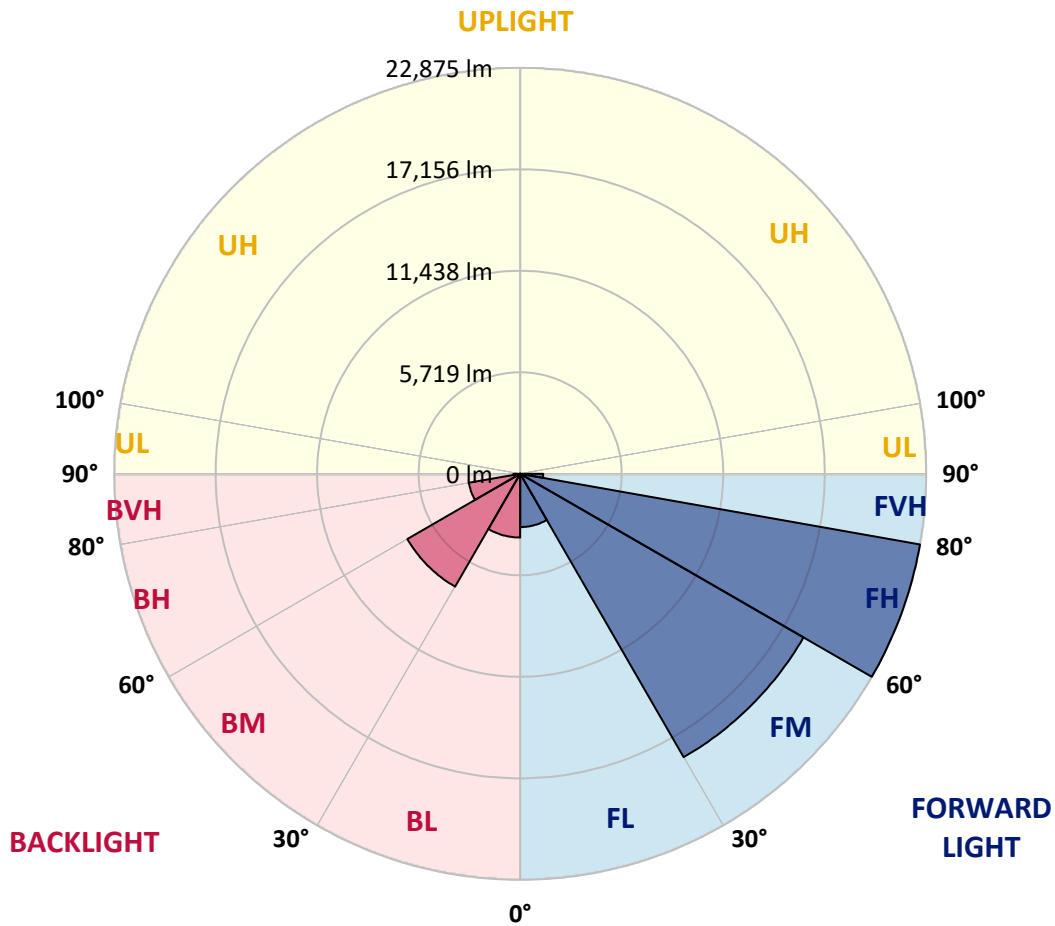
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3001.6	5.0			
FM (30°-60°)	18431.8	30.8			
FH (60°-80°)	22875.3	38.2			G5
FVH (80°-90°)	1301.6	2.2			G5
BL (0°-30°)	3589.6	6.0	B4/5000		
BM (30°-60°)	7339.2	12.3	B4/8500		
BH (60°-80°)	2936.6	4.9	B4/5000		G4/5000
BVH (80°-90°)	378.3	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°	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0
2.5°	7354.7	7400.0	7419.4	7409.7	7458.2	7451.8	7519.7	7603.8	7720.3	7833.6
5°	6788.5	6837.0	6879.1	6917.9	7011.7	7040.8	7147.6	7309.4	7523.0	7739.7
7.5°	6261.0	6303.1	6367.8	6439.0	6597.6	6626.7	6804.6	7057.0	7354.7	7671.8
10°	5830.7	5872.8	5940.7	6021.6	6219.0	6254.6	6481.1	6817.6	7205.9	7607.1
12.5°	5646.3	5659.2	5698.0	5778.9	5950.4	5973.1	6222.2	6607.3	7060.3	7558.5
15°	5636.6	5662.4	5665.7	5707.7	5850.1	5859.8	6089.5	6471.4	6969.7	7548.8
17.5°	5733.6	5753.0	5723.9	5749.8	5869.5	5885.7	6066.9	6406.6	6940.5	7590.9
20°	5992.5	6008.7	5921.3	5885.7	5973.1	5986.0	6164.0	6448.7	6969.7	7678.3
22.5°	6542.5	6552.3	6338.7	6193.1	6199.6	6206.0	6361.3	6620.2	7082.9	7836.8
25°	7400.0	7393.5	7053.8	6772.3	6610.5	6574.9	6678.4	6898.5	7273.8	8047.1
27.5°	8403.1	8354.5	8014.8	7594.1	7241.5	7189.7	7167.0	7260.9	7545.6	8325.4
30°	9535.5	9490.2	9124.6	8574.6	8086.0	8001.8	7788.3	7739.7	7950.1	8704.0
32.5°	10778.0	10748.9	10312.1	9645.6	8992.0	8894.9	8535.7	8406.3	8571.3	9276.7
35°	11819.9	11794.1	11431.7	10745.7	9946.5	9826.8	9461.1	9315.5	9399.6	10011.2
37.5°	12761.5	12748.6	12438.0	11897.6	11072.5	10926.9	10516.0	10467.4	10451.2	10978.7
40°	13635.2	13602.8	13279.2	12994.5	12382.9	12250.3	11887.9	11845.8	11722.9	12169.4
42.5°	14602.6	14518.5	14049.3	13916.7	13751.6	13641.6	13424.8	13431.3	13159.5	13512.2
45°	15392.1	15343.6	14861.5	14783.8	14961.8	14916.5	15104.2	15152.7	14625.3	14919.7
47.5°	16239.9	16194.6	15786.9	15731.9	16214.0	16226.9	16890.2	16906.4	16055.4	16382.2
50°	17285.0	17220.3	16815.8	16883.8	17424.1	17472.7	18686.1	18576.0	17372.4	17867.4
52.5°	17974.2	18013.0	17925.7	18035.7	18773.4	18818.7	20452.7	20171.2	18676.3	19333.2
55°	18482.2	18559.9	18831.7	19084.0	20197.1	20242.4	22119.1	21688.8	19757.1	20692.2
57.5°	19135.8	19025.8	19533.8	20025.6	21549.6	21669.3	23740.2	23151.3	20714.8	21863.5
60°	20074.2	19996.5	20391.3	21119.3	23063.9	23254.8	25455.1	24468.2	21417.0	22792.1
62.5°	21976.7	21782.6	21844.1	22488.0	24973.0	25225.4	27390.0	25616.9	21766.4	23154.5
65°	24820.9	24487.6	24177.0	24623.5	27661.8	27911.0	29574.1	26519.6	21637.0	22452.4
67.5°	28402.8	28072.8	27690.9	28111.6	31622.3	31819.7	32269.4	27027.6	20617.8	19747.4
70°	31357.0	31234.0	31690.2	33421.3	37948.1	37954.5	35725.1	26607.0	17825.4	14000.8
72.5°	30965.5	30891.0	33295.1	38647.0	45920.8	45749.3	38996.4	23423.1	12007.6	6316.0
75°	25403.3	25885.4	29609.7	38553.1	48784.3	48761.7	36993.5	14890.6	4966.8	2617.7
77.5°	13622.2	14385.8	19223.2	28464.3	38083.9	38656.7	26008.4	5209.4	2132.3	1676.1
80°	4442.6	5109.1	7662.1	14492.6	24746.5	24639.7	11146.9	2044.9	1459.3	1187.5
82.5°	1886.4	1964.1	3423.3	6843.5	12700.0	12502.7	3549.5	1174.6	1025.7	812.2
85°	737.7	825.1	1511.1	3164.5	5500.7	5380.9	1281.3	582.4	656.8	530.7
87.5°	242.7	294.4	540.4	1084.0	1711.7	1650.2	313.9	200.6	284.7	242.7
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°
7976.0	0°	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0	7976.0
7998.6	2.5°	8043.9	8095.7	8157.1	8247.7	8325.4	8390.1	8458.1	8500.1	8516.3	8564.8
8011.5	5°	8102.1	8215.4	8367.5	8516.3	8661.9	8749.3	8826.9	8865.8	8901.4	8927.2
8047.1	7.5°	8199.2	8344.8	8584.3	8778.4	8901.4	8972.5	9024.3	9011.4	9024.3	9030.8
8086.0	10°	8283.3	8487.2	8771.9	8956.4	9050.2	9053.4	9040.5	8995.2	8972.5	8975.8
8144.2	12.5°	8383.6	8610.1	8917.5	9072.8	9098.7	9027.5	8972.5	8894.9	8865.8	8852.8
8231.6	15°	8519.5	8778.4	9076.1	9134.3	9069.6	8979.0	8885.2	8759.0	8694.3	8642.5
8380.4	17.5°	8684.6	8969.3	9199.0	9157.0	9017.8	8869.0	8716.9	8526.0	8393.4	8338.3
8584.3	20°	8914.3	9169.9	9292.9	9108.4	8898.1	8671.6	8412.8	8179.8	8056.8	8001.8
8843.1	22.5°	9192.6	9438.5	9383.5	9024.3	8726.6	8364.2	8040.7	7869.2	7807.7	7768.9
9176.4	25°	9525.8	9736.2	9448.2	8901.4	8445.1	7956.5	7707.4	7652.4	7623.3	7594.1
9584.1	27.5°	9959.4	10072.7	9496.7	8720.2	8005.1	7523.0	7432.4	7442.1	7432.4	7383.8
10150.3	30°	10532.1	10509.5	9542.0	8425.7	7500.3	7131.4	7137.9	7180.0	7186.4	7154.1
10939.8	32.5°	11286.1	11056.3	9564.7	8043.9	7018.2	6788.5	6794.9	6840.2	6872.6	6817.6
11972.0	35°	12198.5	11693.7	9529.1	7565.0	6646.1	6461.7	6413.1	6426.1	6435.8	6384.0
13224.2	37.5°	13263.1	12408.8	9370.5	7034.4	6338.7	6141.3	6037.8	5950.4	5898.6	5850.1
14641.5	40°	14431.1	13188.6	9079.3	6516.7	5995.7	5801.6	5646.3	5481.2	5306.5	5241.8
16142.8	42.5°	15654.2	13991.1	8726.6	6021.6	5601.0	5442.4	5277.4	5038.0	4775.9	4643.2
17702.4	45°	16922.6	14812.9	8380.4	5533.0	5196.5	5128.6	4937.6	4649.7	4364.9	4196.7
19265.2	47.5°	18165.1	15589.5	7872.4	5041.2	4817.9	4892.3	4743.5	4478.2	4161.1	3895.8
20815.1	50°	19352.6	16317.5	7040.8	4542.9	4510.5	4821.2	4678.8	4297.0	3934.6	3594.8
22335.9	52.5°	20530.4	16906.4	5976.3	4089.9	4345.5	4801.7	4594.7	4174.0	3730.7	3374.8
23766.1	55°	21530.2	17210.6	4950.6	3701.6	4106.1	4636.7	4494.4	4028.4	3442.8	3064.2
24746.5	57.5°	22099.7	16964.7	4096.4	3319.8	3776.0	4364.9	4322.9	3717.8	3099.8	2808.6
24937.4	60°	21853.8	15968.1	3397.5	2986.5	3462.2	4070.5	4025.2	3410.4	2837.7	2562.7
23914.9	62.5°	20498.0	14068.7	2844.2	2695.3	3177.4	3769.6	3727.5	3174.2	2637.1	2371.8
21200.2	65°	17767.1	11444.6	2413.8	2452.6	2889.5	3407.2	3468.6	2976.8	2478.5	2219.7
16401.7	67.5°	13551.0	8289.8	2077.3	2242.3	2608.0	3051.2	3229.2	2834.5	2345.9	2100.0
9490.2	70°	7723.6	4707.9	1792.6	2038.5	2358.8	2721.2	3044.8	2721.2	2203.5	1999.7
3556.0	72.5°	2928.3	2161.4	1549.9	1834.6	2119.4	2442.9	2840.9	2543.2	2038.5	1886.4
1837.9	75°	1562.8	1316.9	1304.0	1595.2	1844.3	2171.1	2585.3	2368.5	1915.5	1993.2
1271.6	77.5°	1064.5	931.9	1090.4	1365.5	1543.4	1870.2	2313.5	2103.2	1659.9	1653.4
880.1	80°	737.7	660.1	886.6	1100.1	1194.0	1572.5	2019.1	1805.5	1352.5	1261.9
543.6	82.5°	443.3	430.3	663.3	821.9	844.5	1213.4	1672.8	1514.3	1106.6	964.2
323.6	85°	242.7	255.6	423.9	482.1	491.8	847.7	1310.5	1171.3	851.0	715.1
116.5	87.5°	67.9	87.4	155.3	190.9	236.2	440.1	779.8	695.7	427.1	297.7
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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<u>180°</u>
7976.0
8561.6
8933.7
9040.5
8982.2
8846.3
8658.7
8341.6
7995.4
7775.3
7594.1
7393.5
7170.3
6843.5
6419.6
5882.5
5270.9
4659.4
4183.7
3866.6
3565.7
3336.0
3031.8
2769.7
2523.8
2329.7
2177.6
2061.1
1973.8
1860.5
2057.9
1524.0
1206.9
970.7
721.6
297.7
0.0

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