

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: P943209

Luminaire Tested: **GALN-SB7C-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943209  
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-SB7C-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

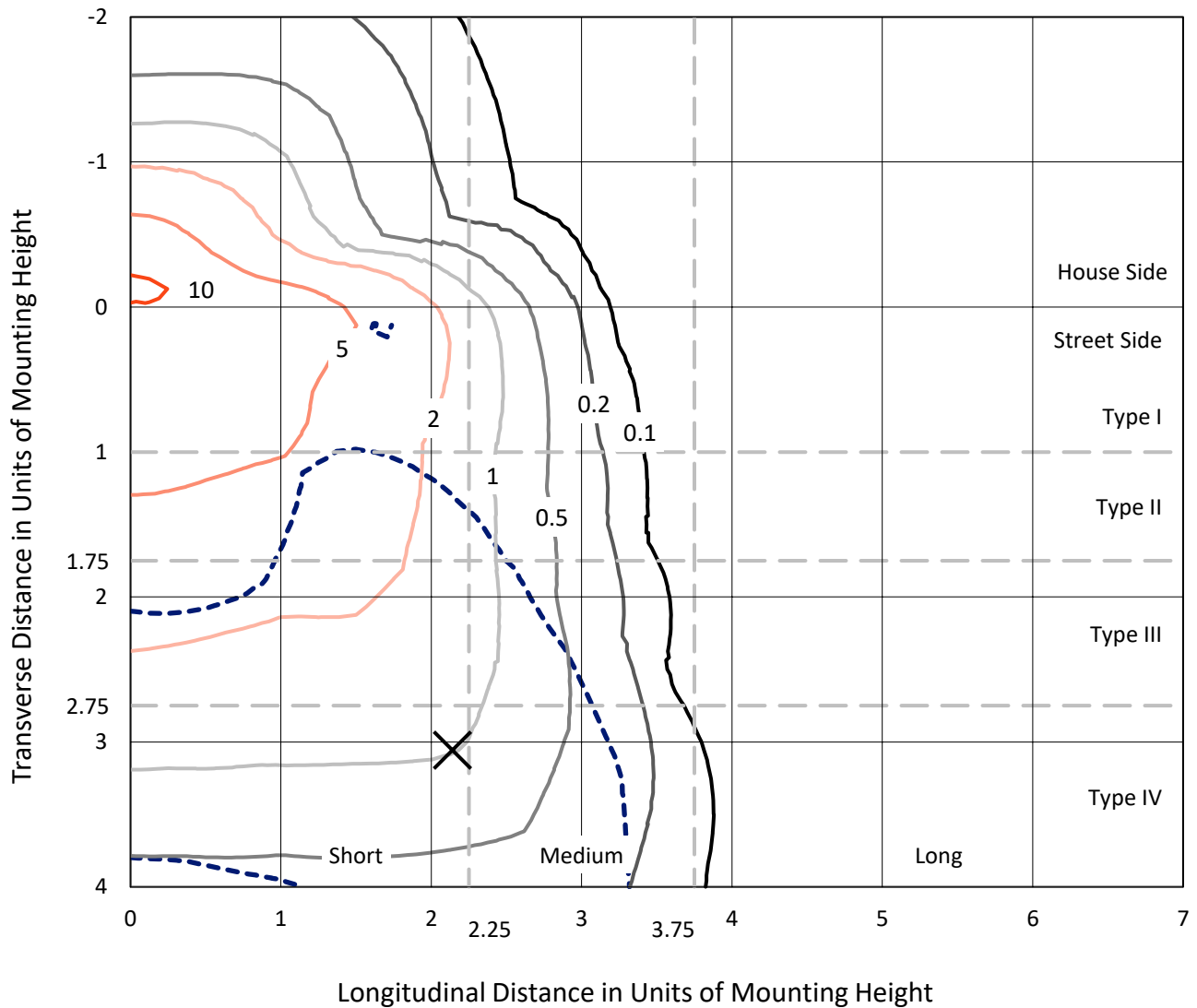
Lumens per Lamp: N/A  
Luminaire Lumens: 45775 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

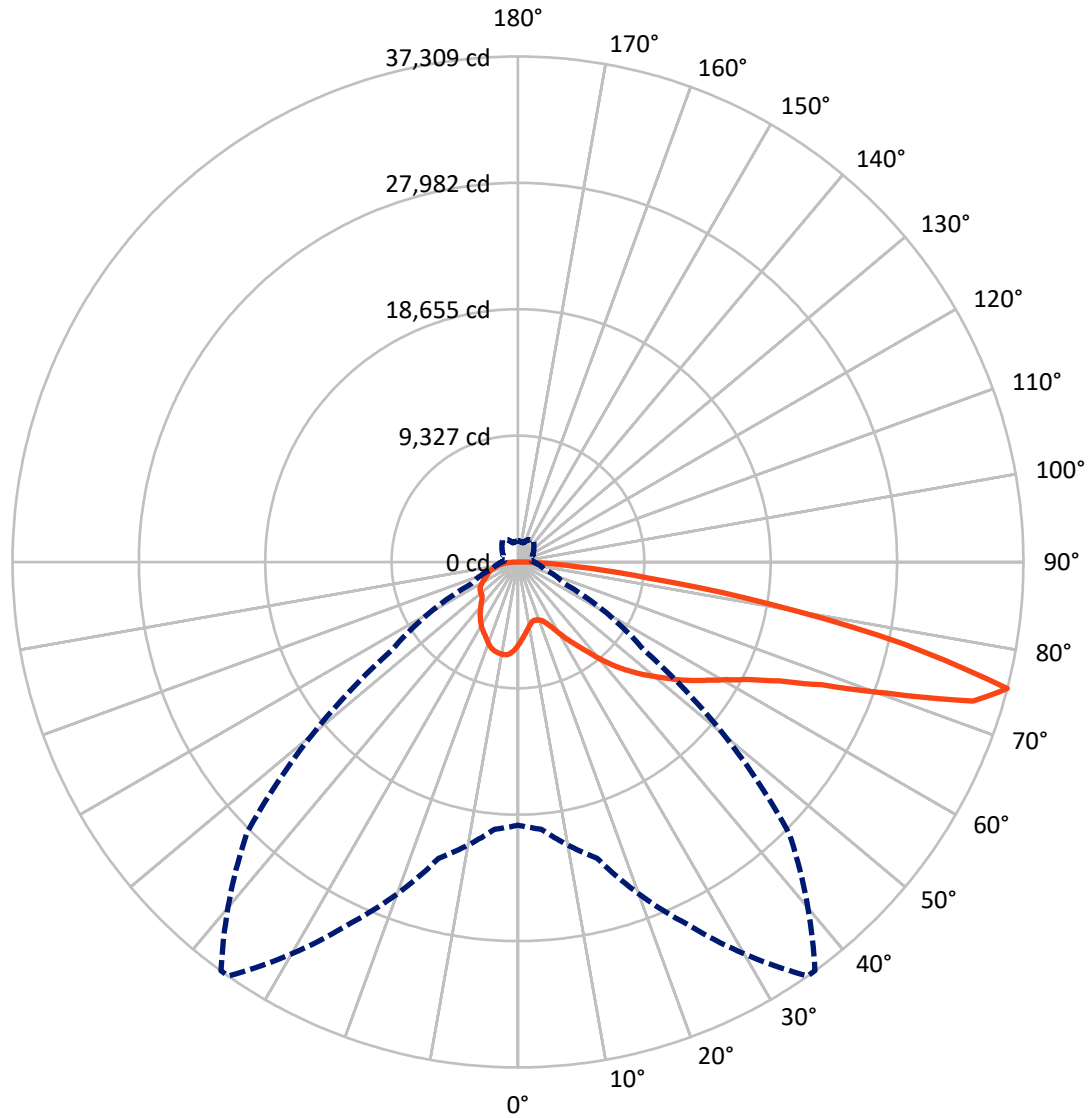
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	10893.3	0.0	10893.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	34881.7	0.0	34881.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	45775.0	0.0	45775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.5	1.3
10°-20°	1665.9	3.6
20°-30°	2797.4	6.1
30°-40°	4347.5	9.5
40°-50°	6452.9	14.1
50°-60°	8908.6	19.5
60°-70°	10808.2	23.6
70°-80°	8932.2	19.5
80°-90°	1284.7	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°	45775.0	100.0
0°-180°	45775.0	100.0

**Coefficient of Utilization**



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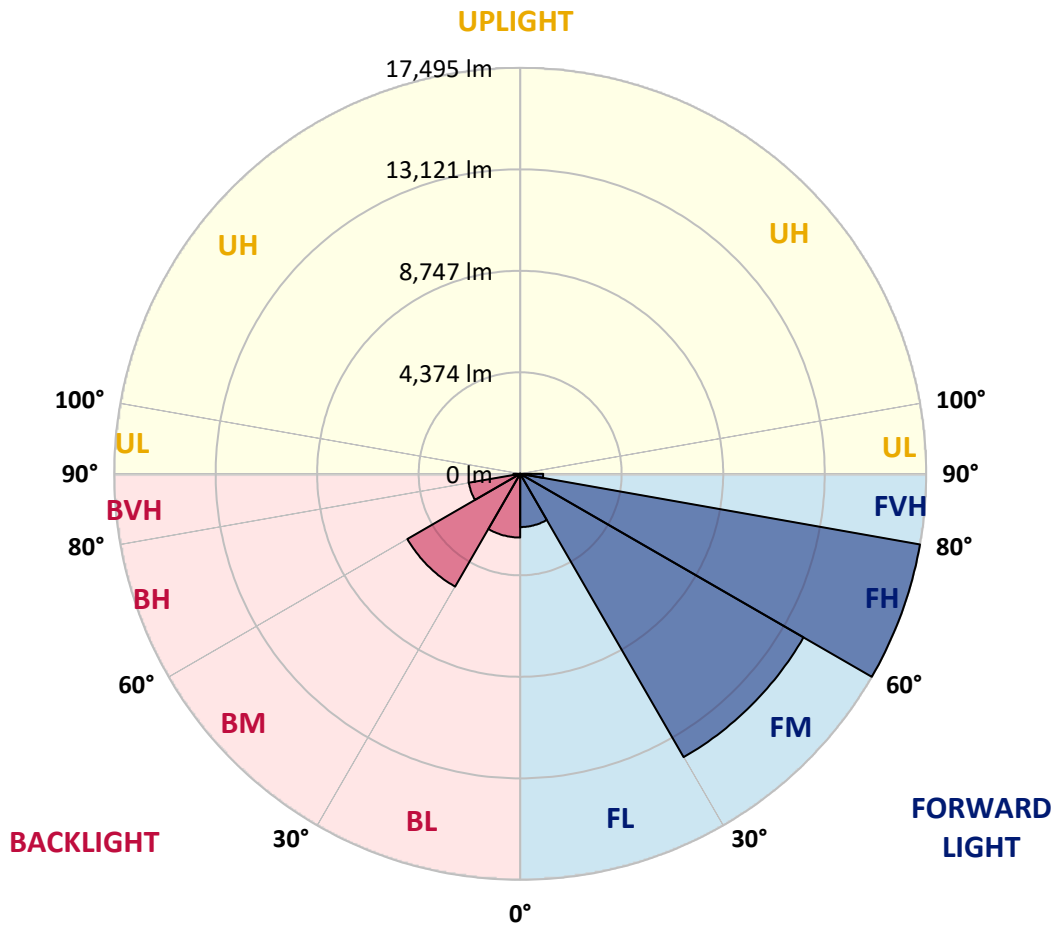
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2295.5	5.0			
FM (30°-60°)	14096.2	30.8			
FH (60°-80°)	17494.5	38.2			G5
FVH (80°-90°)	995.4	2.2			G5
BL (0°-30°)	2745.3	6.0	B4/5000		
BM (30°-60°)	5612.9	12.3	B4/8500		
BH (60°-80°)	2245.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	289.3	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°	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8
2.5°	5624.7	5659.4	5674.2	5666.8	5703.9	5698.9	5750.9	5815.3	5904.3	5990.9
5°	5191.7	5228.8	5260.9	5290.6	5362.4	5384.7	5466.3	5590.1	5753.4	5919.2
7.5°	4788.3	4820.5	4870.0	4924.4	5045.7	5067.9	5204.0	5397.0	5624.7	5867.2
10°	4459.2	4491.4	4543.3	4605.2	4756.1	4783.4	4956.6	5213.9	5510.9	5817.7
12.5°	4318.1	4328.0	4357.7	4419.6	4550.7	4568.1	4758.6	5053.1	5399.5	5780.6
15°	4310.7	4330.5	4333.0	4365.2	4474.0	4481.5	4657.2	4949.2	5330.2	5773.2
17.5°	4384.9	4399.8	4377.5	4397.3	4488.9	4501.3	4639.8	4899.7	5308.0	5805.4
20°	4582.9	4595.3	4528.5	4501.3	4568.1	4578.0	4714.1	4931.8	5330.2	5872.2
22.5°	5003.6	5011.0	4847.7	4736.3	4741.3	4746.2	4865.0	5063.0	5416.8	5993.4
25°	5659.4	5654.4	5394.6	5179.3	5055.6	5028.3	5107.5	5275.8	5562.8	6154.3
27.5°	6426.5	6389.4	6129.5	5807.8	5538.1	5498.5	5481.2	5552.9	5770.7	6367.1
30°	7292.6	7257.9	6978.3	6557.6	6184.0	6119.6	5956.3	5919.2	6080.0	6656.6
32.5°	8242.8	8220.5	7886.5	7376.7	6876.8	6802.6	6527.9	6428.9	6555.2	7094.6
35°	9039.6	9019.8	8742.7	8218.1	7606.8	7515.3	7235.7	7124.3	7188.6	7656.3
37.5°	9759.7	9749.8	9512.3	9099.0	8468.0	8356.6	8042.4	8005.3	7992.9	8396.2
40°	10427.9	10403.1	10155.7	9937.9	9470.2	9368.7	9091.6	9059.4	8965.4	9306.9
42.5°	11167.8	11103.4	10744.6	10643.1	10516.9	10432.8	10267.0	10272.0	10064.1	10333.8
45°	11771.6	11734.4	11365.7	11306.3	11442.4	11407.8	11551.3	11588.4	11185.1	11410.3
47.5°	12419.9	12385.2	12073.5	12031.4	12400.1	12410.0	12917.3	12929.7	12278.8	12528.8
50°	13219.2	13169.7	12860.4	12912.3	13325.6	13362.7	14290.7	14206.5	13286.0	13664.6
52.5°	13746.3	13776.0	13709.1	13793.3	14357.5	14392.1	15641.8	15426.5	14283.2	14785.6
55°	14134.8	14194.2	14402.0	14595.0	15446.3	15480.9	16916.2	16587.1	15109.8	15824.9
57.5°	14634.6	14550.5	14939.0	15315.1	16480.7	16572.2	18156.0	17705.6	15842.2	16720.7
60°	15352.3	15292.9	15594.8	16151.6	17638.8	17784.8	19467.5	18712.7	16379.2	17430.9
62.5°	16807.3	16658.8	16705.9	17198.3	19098.8	19291.8	20947.3	19591.2	16646.5	17708.1
65°	18982.5	18727.6	18490.0	18831.5	21155.1	21345.7	22617.6	20281.6	16547.5	17171.1
67.5°	21721.8	21469.4	21177.4	21499.1	24184.0	24335.0	24678.9	20670.1	15768.0	15102.3
70°	23981.1	23887.1	24236.0	25559.9	29021.8	29026.8	27321.8	20348.4	13632.4	10707.5
72.5°	23681.7	23624.8	25463.4	29556.3	35119.2	34988.0	29823.6	17913.5	9183.1	4830.4
75°	19427.9	19796.6	22644.8	29484.6	37309.2	37291.9	28291.8	11388.0	3798.5	2001.9
77.5°	10418.0	11002.0	14701.5	21768.8	29125.8	29563.8	19890.6	3984.1	1630.7	1281.8
80°	3397.6	3907.4	5859.8	11083.6	18925.6	18843.9	8524.9	1563.9	1116.0	908.2
82.5°	1442.7	1502.1	2618.1	5233.7	9712.7	9561.8	2714.6	898.3	784.4	621.1
85°	564.2	631.0	1155.6	2420.1	4206.8	4115.2	979.9	445.4	502.3	405.8
87.5°	185.6	225.2	413.3	829.0	1309.1	1262.0	240.0	153.4	217.8	185.6
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°
6099.8	0°	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8	6099.8
6117.2	2.5°	6151.8	6191.4	6238.4	6307.7	6367.1	6416.6	6468.5	6500.7	6513.1	6550.2
6127.0	5°	6196.3	6282.9	6399.3	6513.1	6624.4	6691.3	6750.6	6780.3	6807.6	6827.4
6154.3	7.5°	6270.6	6381.9	6565.0	6713.5	6807.6	6862.0	6901.6	6891.7	6901.6	6906.5
6184.0	10°	6334.9	6490.8	6708.6	6849.6	6921.4	6923.9	6914.0	6879.3	6862.0	6864.5
6228.5	12.5°	6411.6	6584.8	6819.9	6938.7	6958.5	6904.1	6862.0	6802.6	6780.3	6770.4
6295.3	15°	6515.6	6713.5	6941.2	6985.7	6936.2	6866.9	6795.2	6698.7	6649.2	6609.6
6409.2	17.5°	6641.8	6859.5	7035.2	7003.0	6896.6	6782.8	6666.5	6520.5	6419.0	6377.0
6565.0	20°	6817.5	7012.9	7107.0	6965.9	6805.1	6631.9	6433.9	6255.7	6161.7	6119.6
6763.0	22.5°	7030.3	7218.3	7176.3	6901.6	6673.9	6396.8	6149.3	6018.2	5971.2	5941.5
7017.9	25°	7285.2	7446.0	7225.8	6807.6	6458.6	6085.0	5894.4	5852.4	5830.1	5807.8
7329.7	27.5°	7616.7	7703.4	7262.9	6669.0	6122.1	5753.4	5684.1	5691.5	5684.1	5647.0
7762.7	30°	8054.7	8037.4	7297.5	6443.8	5736.1	5454.0	5458.9	5491.1	5496.0	5471.3
8366.5	32.5°	8631.3	8455.6	7314.8	6151.8	5367.4	5191.7	5196.6	5231.3	5256.0	5213.9
9155.9	35°	9329.1	8943.1	7287.6	5785.6	5082.8	4941.7	4904.6	4914.5	4921.9	4882.3
10113.6	37.5°	10143.3	9490.0	7166.4	5379.7	4847.7	4696.7	4617.6	4550.7	4511.2	4474.0
11197.5	40°	11036.6	10086.4	6943.7	4983.8	4585.4	4436.9	4318.1	4191.9	4058.3	4008.8
12345.7	42.5°	11972.0	10700.1	6673.9	4605.2	4283.5	4162.2	4036.0	3852.9	3652.5	3551.0
13538.4	45°	12942.0	11328.6	6409.2	4231.5	3974.2	3922.2	3776.2	3556.0	3338.2	3209.5
14733.6	47.5°	13892.3	11922.5	6020.6	3855.4	3684.6	3741.6	3627.7	3424.8	3182.3	2979.4
15918.9	50°	14800.4	12479.3	5384.7	3474.3	3449.6	3687.1	3578.2	3286.2	3009.1	2749.3
17082.0	52.5°	15701.2	12929.7	4570.5	3127.9	3323.4	3672.3	3513.9	3192.2	2853.2	2581.0
18175.8	55°	16465.8	13162.3	3786.1	2830.9	3140.2	3546.1	3437.2	3080.8	2632.9	2343.4
18925.6	57.5°	16901.4	12974.2	3132.8	2538.9	2887.8	3338.2	3306.0	2843.3	2370.6	2147.9
19071.6	60°	16713.3	12212.0	2598.3	2284.0	2647.8	3113.0	3078.4	2608.2	2170.2	1959.9
18289.6	62.5°	15676.4	10759.5	2175.2	2061.3	2430.0	2882.9	2850.7	2427.6	2016.8	1813.9
16213.4	65°	13587.9	8752.6	1846.0	1875.7	2209.8	2605.7	2652.7	2276.6	1895.5	1697.6
12543.6	67.5°	10363.5	6339.9	1588.7	1714.9	1994.5	2333.5	2469.6	2167.7	1794.1	1606.0
7257.9	70°	5906.8	3600.5	1370.9	1559.0	1804.0	2081.1	2328.6	2081.1	1685.2	1529.3
2719.6	72.5°	2239.5	1653.0	1185.3	1403.1	1620.8	1868.3	2172.7	1945.0	1559.0	1442.7
1405.6	75°	1195.2	1007.2	997.3	1220.0	1410.5	1660.4	1977.2	1811.4	1464.9	1524.3
972.5	77.5°	814.1	712.7	833.9	1044.3	1180.4	1430.3	1769.3	1608.5	1269.5	1264.5
673.1	80°	564.2	504.8	678.0	841.4	913.1	1202.6	1544.1	1380.8	1034.4	965.1
415.7	82.5°	339.0	329.1	507.3	628.5	645.9	928.0	1279.4	1158.1	846.3	737.4
247.5	85°	185.6	195.5	324.2	368.7	376.1	648.3	1002.2	895.8	650.8	546.9
89.1	87.5°	52.0	66.8	118.8	146.0	180.6	336.5	596.4	532.0	326.6	227.7
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>
6099.8
6547.7
6832.3
6914.0
6869.4
6765.5
6622.0
6379.5
6114.7
5946.4
5807.8
5654.4
5483.7
5233.7
4909.6
4498.8
4031.1
3563.4
3199.6
2957.1
2727.0
2551.3
2318.7
2118.2
1930.2
1781.7
1665.4
1576.3
1509.5
1422.9
1573.8
1165.5
923.0
742.4
551.8
227.7
0.0

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