

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: P954277

Luminaire Tested: **GALN-SB7C-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
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-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

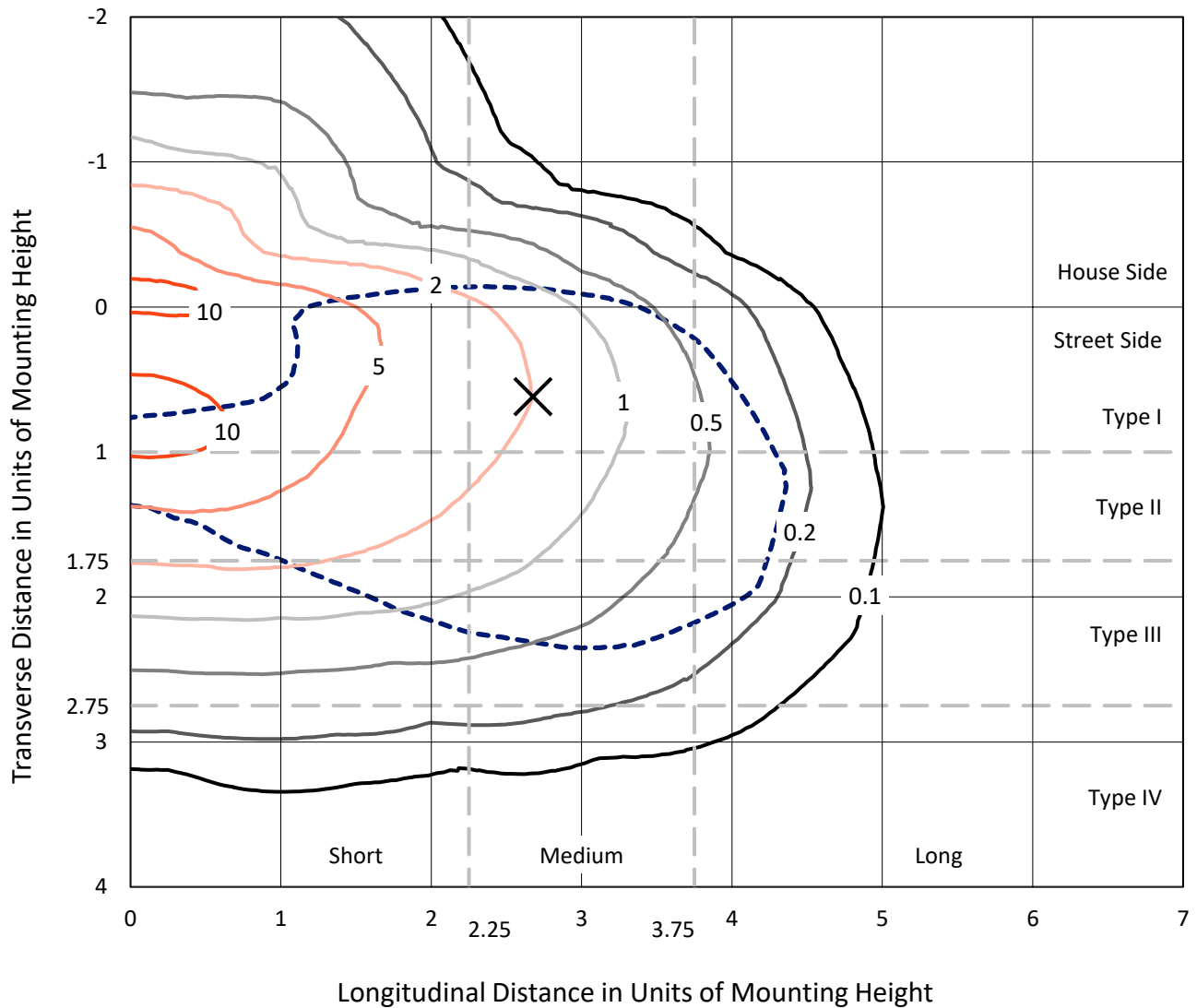
Lumens per Lamp: N/A  
Luminaire Lumens: 47545 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

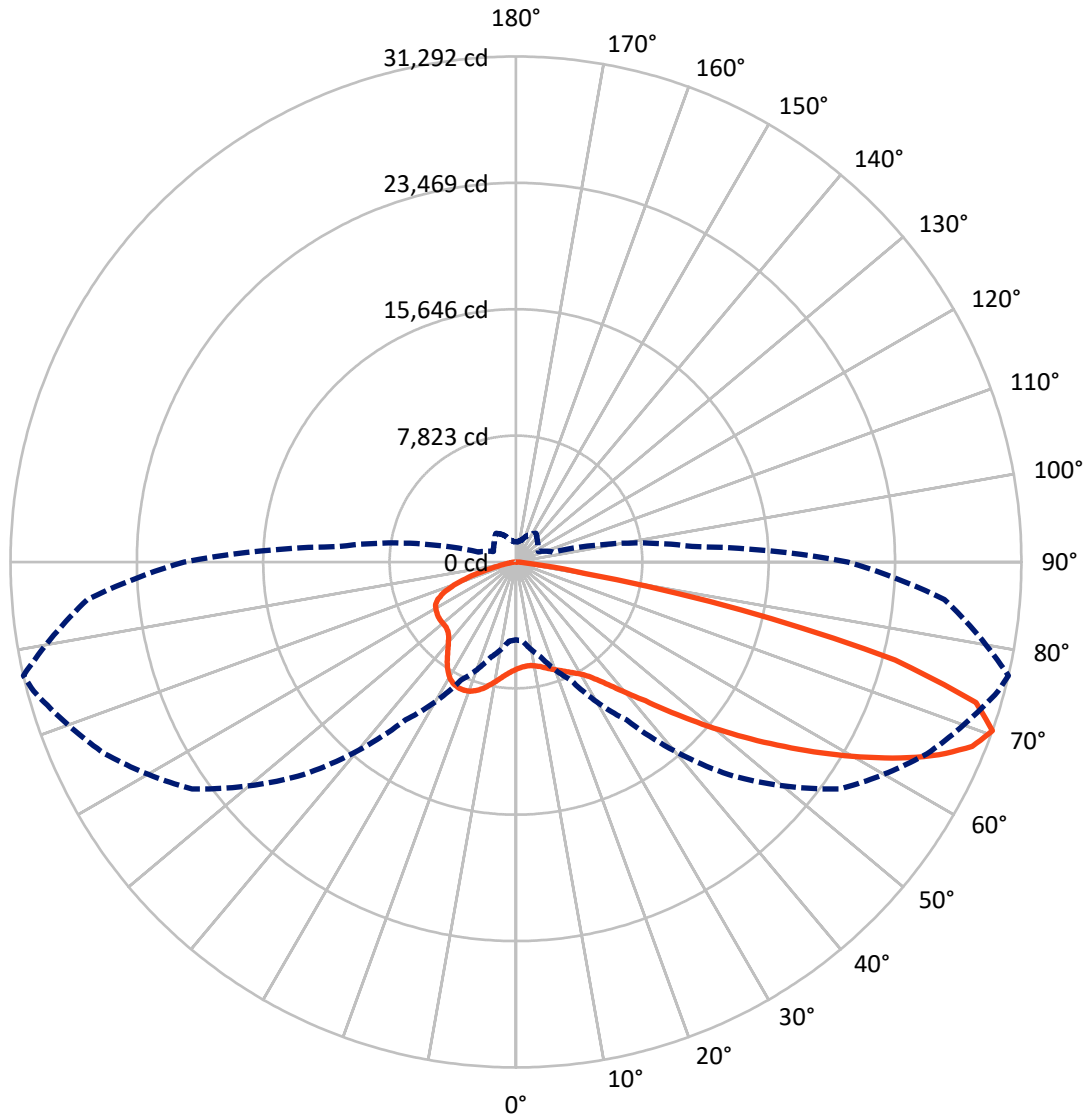
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10411.6	0.0	10411.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	37133.4	0.0	37133.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	47545.0	0.0	47545.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.6	1.3
10°-20°	1825.8	3.8
20°-30°	3122.3	6.6
30°-40°	5021.0	10.6
40°-50°	7839.1	16.5
50°-60°	10471.2	22.0
60°-70°	11160.6	23.5
70°-80°	6870.4	14.5
80°-90°	602.0	1.3
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°	47545.0	100.0
0°-180°	47545.0	100.0

**Coefficient of Utilization**



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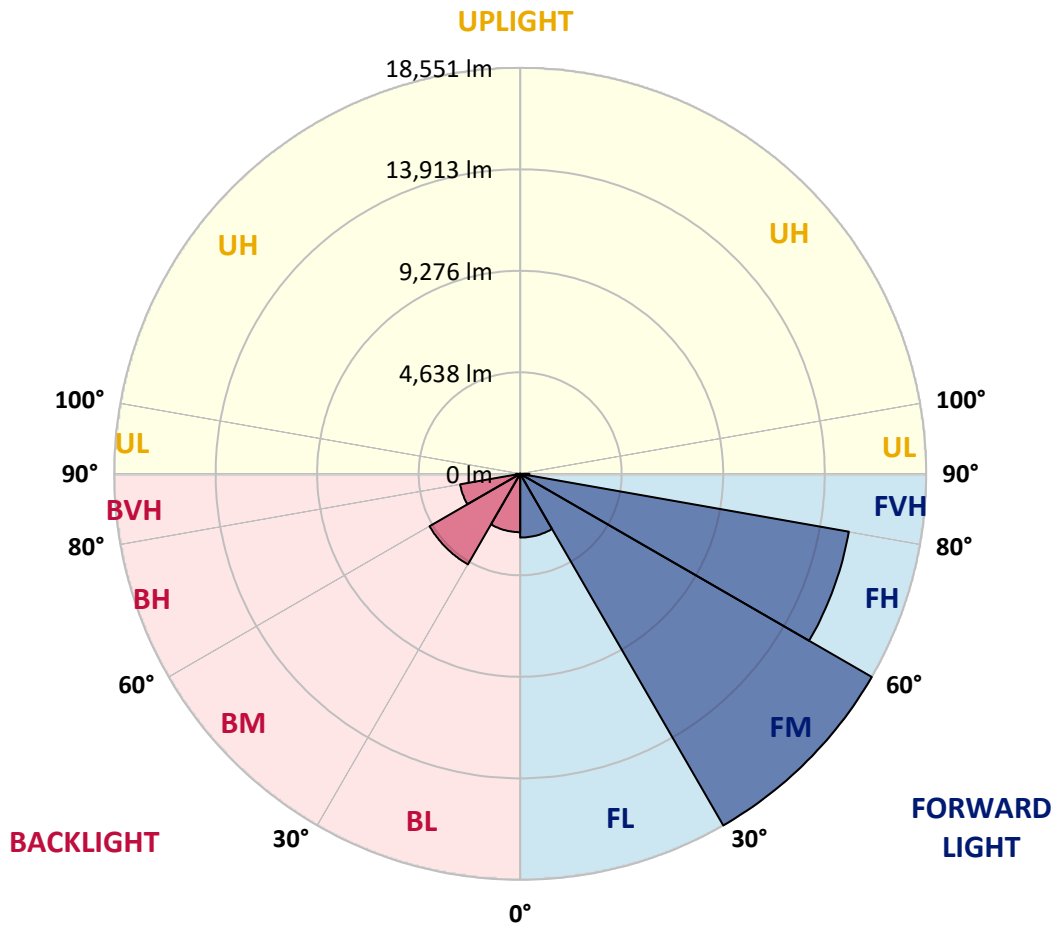
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.9	6.1			
FM (30°-60°)	18551.0	39.0			
FH (60°-80°)	15248.5	32.1			G5
FVH (80°-90°)	421.0	0.9			G3/500
BL (0°-30°)	2667.8	5.6	B4/5000		
BM (30°-60°)	4780.2	10.1	B3/5000		
BH (60°-80°)	2782.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	181.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0
2.5°	6114.3	6111.9	6143.5	6153.3	6211.7	6253.1	6331.0	6413.8	6521.0	6533.1
5°	5761.2	5761.2	5797.8	5836.7	5912.2	5995.0	6114.3	6258.0	6443.0	6472.3
7.5°	5461.7	5481.2	5512.9	5588.3	5676.0	5795.3	5977.9	6182.5	6426.0	6472.3
10°	5220.7	5242.6	5281.5	5342.4	5473.9	5639.5	5878.1	6141.1	6467.4	6540.4
12.5°	5145.2	5167.1	5189.0	5235.3	5357.0	5551.8	5836.7	6160.6	6567.2	6640.3
15°	5320.5	5347.3	5330.2	5318.1	5381.4	5559.1	5856.2	6231.2	6691.4	6796.1
17.5°	5724.7	5734.4	5695.5	5581.0	5571.3	5666.3	5948.7	6328.6	6847.2	6961.7
20°	6377.3	6360.2	6279.9	6053.4	5924.4	5904.9	6107.0	6474.7	7008.0	7129.7
22.5°	7263.6	7244.1	7083.4	6725.5	6438.2	6248.2	6335.9	6664.6	7188.1	7324.5
25°	8369.1	8342.3	8106.1	7619.1	7173.5	6703.6	6647.6	6915.4	7409.7	7536.3
27.5°	9659.7	9637.8	9382.1	8739.2	8096.4	7326.9	7034.7	7210.1	7641.1	7784.7
30°	11047.6	11110.9	10658.0	9966.5	9153.2	8140.2	7555.8	7572.9	7940.6	8069.6
32.5°	12679.1	12788.7	12243.2	11366.6	10256.3	9024.1	8213.3	8079.4	8376.4	8483.6
35°	14295.9	14420.1	13967.2	12998.1	11719.7	10066.3	8900.0	8661.3	8956.0	9072.8
37.5°	15693.6	15859.2	15625.4	14782.9	13285.4	11322.8	9796.0	9345.6	9669.4	9815.5
40°	16796.7	17049.9	17032.9	16506.9	15131.1	12847.1	10933.2	10190.5	10555.8	10714.0
42.5°	17692.8	17911.9	18101.8	18075.1	17057.2	14578.4	12270.0	11288.7	11566.3	11748.9
45°	18311.3	18545.0	18954.1	19394.8	18910.3	16431.4	13801.6	12591.4	12844.7	13119.8
47.5°	18864.0	19129.4	19660.3	20359.1	20483.3	18291.8	15479.3	14108.4	14339.8	14624.7
50°	18912.7	19141.6	19964.6	20955.7	21601.0	20079.1	17281.3	15810.5	16027.2	16331.6
52.5°	17736.6	18097.0	19533.6	20938.6	22114.7	21574.2	19071.0	17580.8	17824.3	18189.5
55°	13767.5	14295.9	18269.9	20286.0	21932.1	22540.9	20773.1	19463.0	19774.7	20157.0
57.5°	11858.5	12089.8	14502.9	19097.8	21099.3	22791.7	22209.7	21364.8	21866.4	22285.2
60°	10658.0	10850.4	12277.3	17249.6	20003.6	22394.8	23320.1	23137.4	24004.3	24503.5
62.5°	9372.3	9555.0	10852.8	14403.1	18601.0	21734.9	24021.4	24773.8	26195.8	26741.3
65°	8096.4	8252.2	9496.5	12102.0	16818.6	21075.0	24384.2	26188.5	28224.2	28789.1
67.5°	6674.4	6803.4	7979.5	10210.0	14651.4	20171.6	24564.4	27301.3	29989.6	30474.1
70°	4816.4	4916.3	6131.3	8074.5	11931.5	18618.1	24491.3	28090.2	30905.1	31292.3
72.5°	2276.7	2366.8	3793.7	5242.6	8427.6	15593.8	23013.3	27464.5	29974.9	29782.6
75°	1215.1	1293.0	2179.3	2875.7	4451.2	10689.7	18832.4	23658.5	25170.7	24235.6
77.5°	823.0	883.9	1349.0	1726.4	2033.2	5074.6	12104.4	16380.3	15759.4	14215.6
80°	652.6	715.9	1105.5	1168.8	983.7	1833.6	5001.5	7582.6	5447.1	4356.2
82.5°	501.6	572.2	930.2	847.4	535.7	752.4	1456.1	2398.5	1395.3	1061.7
85°	306.8	382.3	730.5	540.6	301.9	343.3	494.3	667.2	426.1	355.5
87.5°	155.8	219.2	370.1	197.2	136.4	80.4	131.5	131.5	112.0	97.4
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°
6633.0	0°	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0	6633.0
6598.9	2.5°	6657.3	6706.0	6788.8	6866.7	6927.6	6986.0	7044.5	7076.1	7085.9	7124.8
6635.4	5°	6735.2	6825.3	6986.0	7137.0	7232.0	7290.4	7331.8	7356.2	7361.0	7373.2
6735.2	7.5°	6878.9	7022.6	7246.6	7397.6	7468.2	7463.3	7446.3	7385.4	7361.0	7339.1
6881.3	10°	7081.0	7270.9	7546.1	7650.8	7607.0	7490.1	7339.1	7161.4	7078.6	6998.2
7081.0	12.5°	7331.8	7572.9	7843.2	7838.3	7621.6	7322.1	6971.4	6698.7	6525.8	6401.6
7326.9	15°	7636.2	7913.8	8120.8	7955.2	7480.3	6942.2	6428.4	6072.9	5917.1	5780.7
7575.3	17.5°	7950.3	8247.4	8342.3	7918.6	7124.8	6379.7	5797.8	5517.7	5364.3	5291.3
7843.2	20°	8257.1	8551.7	8473.8	7709.2	6584.3	5741.7	5223.1	5069.7	5038.0	5055.1
8103.7	22.5°	8581.0	8843.9	8500.6	7305.0	5895.2	5089.2	4804.3	4809.1	4879.8	4930.9
8376.4	25°	8912.1	9089.9	8430.0	6720.6	5154.9	4609.5	4538.9	4616.8	4755.6	4855.4
8683.2	27.5°	9231.1	9309.0	8276.6	5997.4	4519.4	4266.1	4278.3	4439.0	4648.4	4787.2
9055.8	30°	9591.5	9503.8	7982.0	5184.1	4078.6	3971.5	4073.8	4261.3	4470.7	4594.9
9525.8	32.5°	9998.1	9671.9	7514.4	4431.7	3767.0	3735.3	3903.3	4025.1	4117.6	4154.1
10149.1	35°	10504.6	9908.0	6915.4	3903.3	3486.9	3562.4	3723.1	3662.3	3625.7	3606.2
10986.8	37.5°	11162.1	10227.0	6214.1	3560.0	3260.5	3438.2	3504.0	3314.0	3170.4	3099.8
12002.2	40°	11953.5	10694.6	5539.6	3294.6	3116.8	3331.1	3216.6	2987.8	2805.1	2705.3
13144.2	42.5°	12832.5	11184.0	4972.3	3094.9	3036.5	3243.4	3004.8	2732.1	2437.4	2405.8
14505.3	45°	13755.4	11688.0	4585.1	2941.5	2997.5	3167.9	2883.0	2442.3	2232.9	2362.0
15871.4	47.5°	14678.2	12150.7	4351.4	2827.0	2978.0	3082.7	2775.9	2281.6	2133.1	2320.6
17334.8	50°	15705.8	12564.6	4246.7	2744.3	2956.1	3048.6	2615.2	2240.2	2028.4	2152.5
18849.4	52.5°	16726.1	12886.1	4168.7	2661.5	2924.4	3021.8	2537.3	2191.5	1901.7	1909.0
20373.7	55°	17743.9	13095.5	4083.5	2551.9	2853.8	2963.4	2530.0	2137.9	1806.8	1772.7
21985.7	57.5°	18829.9	13214.8	3978.8	2430.1	2732.1	2814.9	2522.7	2096.5	1777.6	1721.6
23634.2	60°	19935.4	13390.1	3842.4	2281.6	2568.9	2637.1	2505.6	2081.9	1760.5	1665.5
25187.7	62.5°	20926.5	13451.0	3679.3	2140.4	2359.5	2461.8	2469.1	2069.8	1714.2	1551.1
26478.3	65°	21576.6	13188.0	3394.4	1979.7	2133.1	2281.6	2398.5	2028.4	1631.5	1468.3
27116.2	67.5°	21549.8	12438.0	2948.8	1772.7	1913.9	2081.9	2296.2	1957.7	1531.6	1366.0
26634.1	70°	20546.6	10957.5	2383.9	1531.6	1672.9	1867.7	2164.7	1853.0	1412.3	1254.0
23682.9	72.5°	17622.2	8576.1	1731.3	1249.2	1392.8	1646.1	1994.3	1726.4	1290.6	1154.2
17502.8	75°	12589.0	5427.6	1173.7	959.4	1083.6	1395.3	1782.4	1577.9	1178.5	1159.1
8766.0	77.5°	6430.9	2593.3	776.8	701.3	754.9	1100.6	1497.5	1409.9	1195.6	957.0
2493.4	80°	2091.7	957.0	489.4	477.3	501.6	732.9	1159.1	1156.6	905.8	650.1
603.9	82.5°	667.2	411.5	319.0	306.8	294.6	460.2	808.4	915.6	611.2	411.5
216.7	85°	265.4	245.9	187.5	172.9	124.2	216.7	423.7	608.8	455.3	297.1
56.0	87.5°	97.4	97.4	51.1	36.5	26.8	73.1	114.4	182.6	260.5	153.4
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>
6633.0
7146.7
7392.7
7344.0
6973.9
6372.4
5766.1
5313.2
5047.8
4943.1
4882.2
4821.3
4624.1
4173.6
3625.7
3116.8
2712.6
2437.4
2430.1
2408.2
2245.1
1960.2
1797.0
1728.9
1672.9
1551.1
1468.3
1373.3
1268.6
1146.9
1093.3
852.3
574.7
409.1
304.4
151.0
0.0

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