

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: P944192

Luminaire Tested: **GALN-SB9A-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42849 lumens
Efficiency: N/A
Efficacy: 167.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

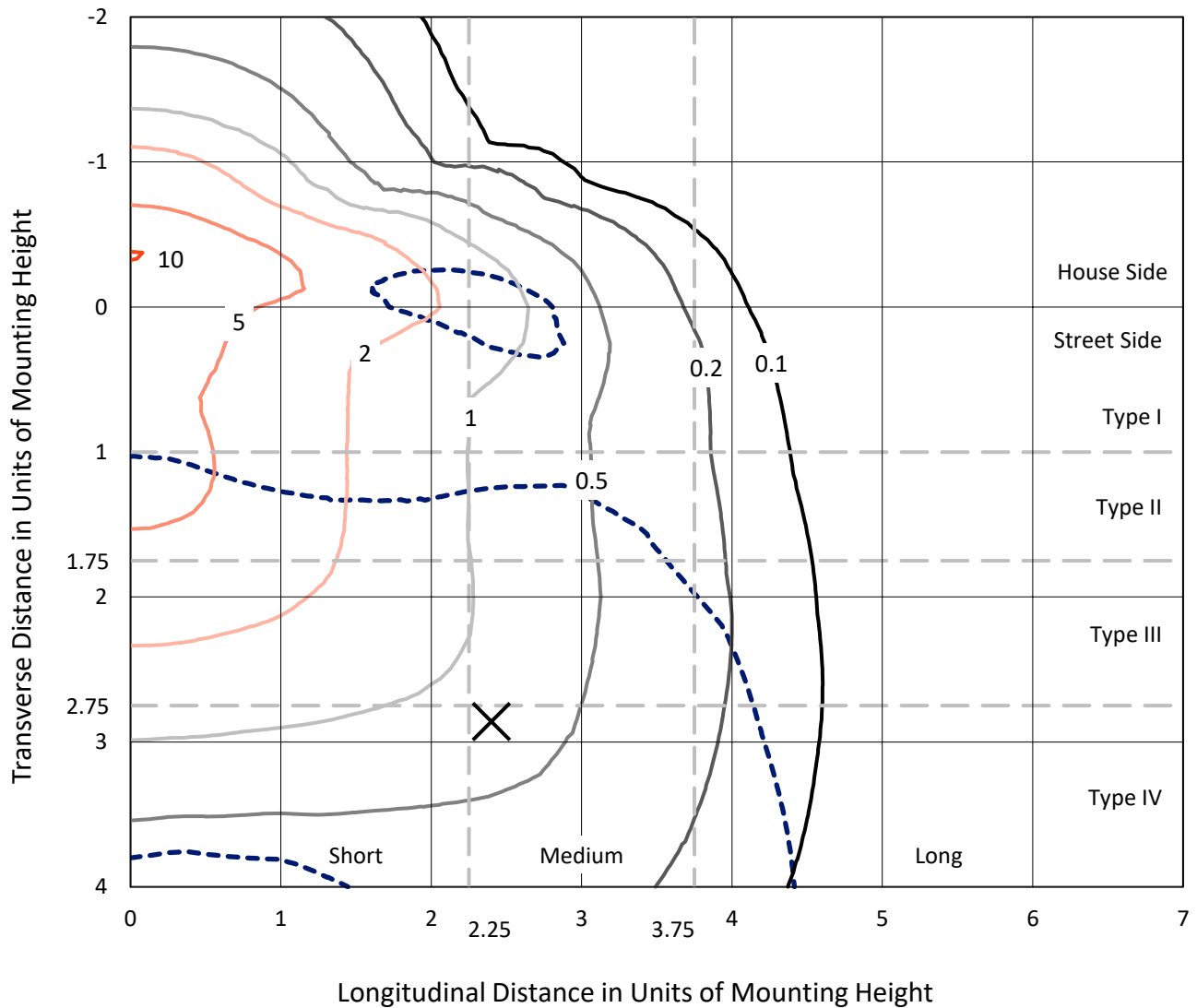
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944192
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Iso-Footcandle Lines of Horizontal Illumination

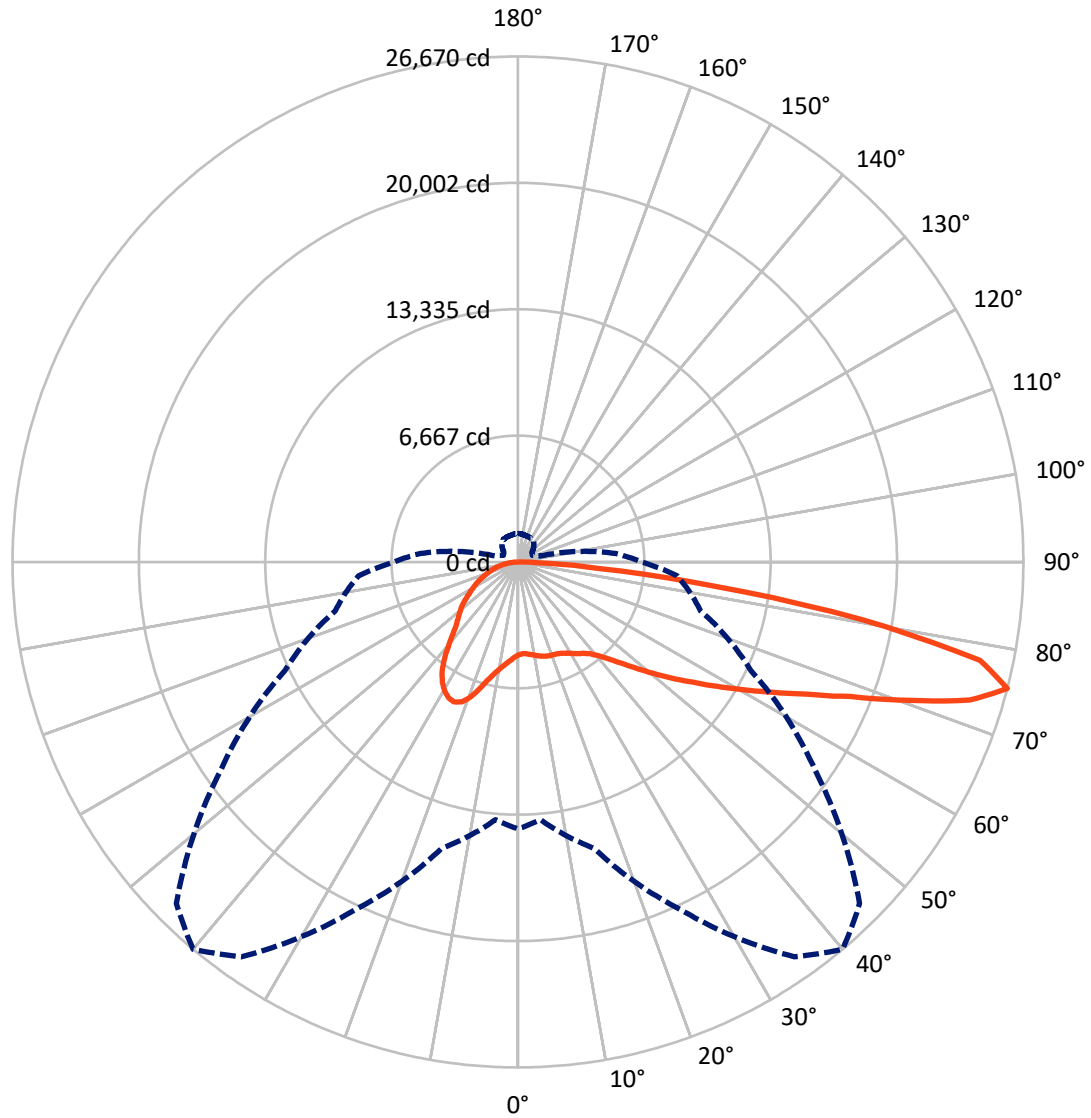
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P944192
CATALOG NUMBER: GALN-SB9A-740-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13276.1	0.0	13276.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	29572.9	0.0	29572.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	42849.0	0.0	42849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.1	1.1
10°-20°	1642.1	3.8
20°-30°	2998.4	7.0
30°-40°	4252.5	9.9
40°-50°	5742.2	13.4
50°-60°	7724.8	18.0
60°-70°	9804.5	22.9
70°-80°	8898.2	20.8
80°-90°	1297.1	3.0
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°	42849.0	100.0
0°-180°	42849.0	100.0

Coefficient of Utilization



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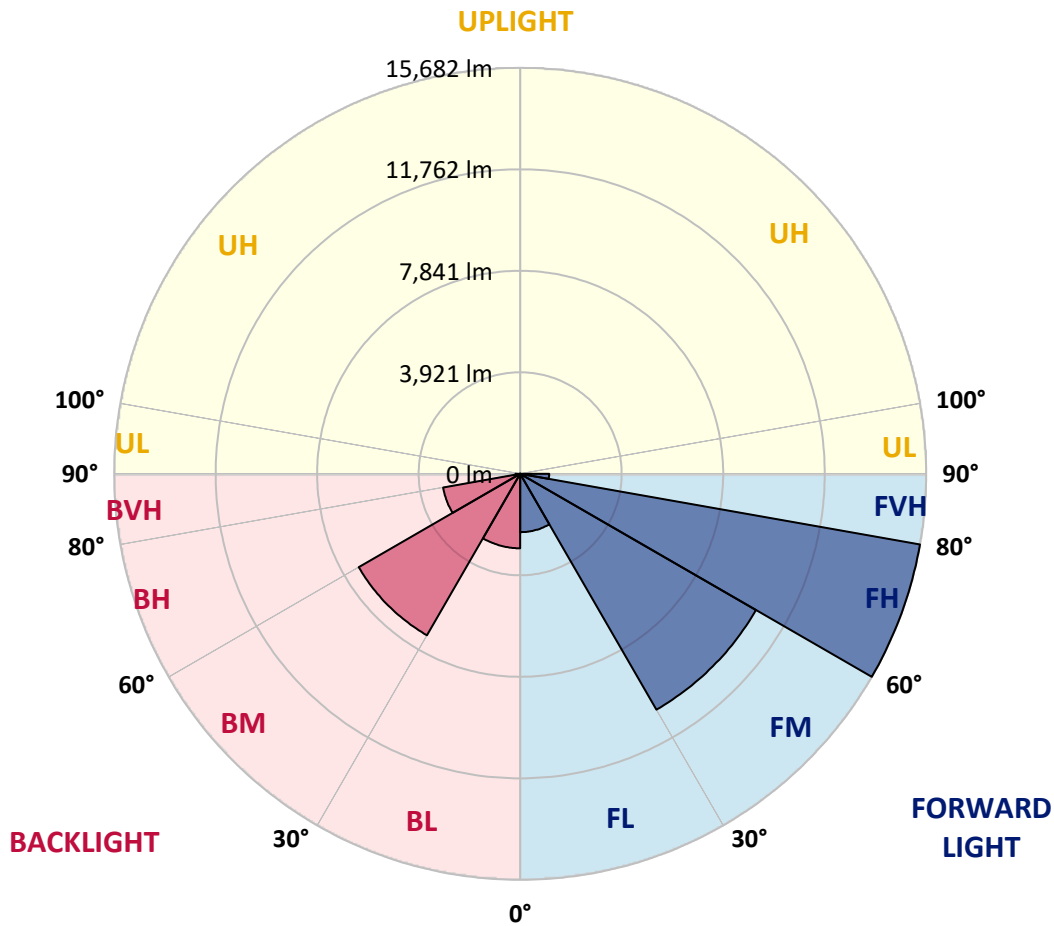
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.9	5.3			
FM (30°-60°)	10518.5	24.5			
FH (60°-80°)	15682.1	36.6			G5
FVH (80°-90°)	1118.5	2.6			G5
BL (0°-30°)	2875.7	6.7	B4/5000		
BM (30°-60°)	7201.1	16.8	B4/8500		
BH (60°-80°)	3020.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	178.6	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 IV Medium



REPORT NUMBER: P944192
 CATALOG NUMBER: GALN-SB9A-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8
2.5°	4824.8	4852.1	4845.3	4836.2	4836.2	4838.5	4836.2	4852.1	4868.0	4883.9
5°	4874.8	4902.1	4888.5	4877.1	4868.0	4865.8	4858.9	4856.7	4865.8	4886.2
7.5°	4972.6	4999.8	4979.4	4958.9	4940.7	4931.7	4922.6	4908.9	4902.1	4913.5
10°	5081.7	5108.9	5083.9	5047.6	5018.0	5006.7	4997.6	4983.9	4974.8	4981.7
12.5°	5190.7	5218.0	5183.9	5133.9	5095.3	5088.5	5077.1	5072.6	5070.3	5068.0
15°	5293.0	5315.7	5272.6	5213.5	5172.6	5161.2	5149.8	5156.7	5168.0	5181.6
17.5°	5372.6	5395.3	5331.6	5254.4	5215.7	5211.2	5204.4	5227.1	5258.9	5293.0
20°	5445.3	5468.0	5386.2	5281.6	5236.2	5236.2	5238.5	5286.2	5331.6	5381.6
22.5°	5547.5	5565.7	5465.7	5322.6	5256.6	5261.2	5279.4	5327.1	5383.9	5452.1
25°	5699.8	5713.5	5590.7	5399.8	5324.8	5338.5	5354.4	5377.1	5431.6	5511.2
27.5°	5945.3	5956.6	5795.3	5536.2	5422.6	5445.3	5468.0	5452.1	5477.1	5545.3
30°	6290.7	6297.5	6093.0	5749.8	5588.5	5599.8	5604.4	5538.5	5490.7	5545.3
32.5°	6699.8	6697.5	6454.3	6008.9	5777.1	5765.7	5727.1	5597.5	5486.2	5533.9
35°	7333.9	7308.9	6995.2	6372.5	5990.7	5920.3	5829.4	5663.5	5508.9	5522.5
37.5°	8383.8	8306.5	7872.5	6968.0	6308.9	6129.3	5995.3	5770.3	5558.9	5518.0
40°	9567.9	9470.1	8992.9	7783.8	6786.1	6497.5	6281.6	5922.5	5640.7	5538.5
42.5°	10972.4	10833.7	10320.1	8745.2	7390.7	6972.5	6647.5	6115.7	5761.2	5604.4
45°	12697.3	12513.2	11786.0	9829.2	8152.0	7595.2	7161.1	6408.9	5945.3	5731.6
47.5°	14440.4	14485.9	13451.8	11070.1	9065.6	8363.4	7804.3	6849.8	6213.4	5936.2
50°	16292.7	16324.5	15108.6	12445.0	10101.9	9231.5	8527.0	7342.9	6586.1	6227.1
52.5°	17738.1	17742.6	16613.1	13883.6	11181.5	10186.0	9306.5	7906.6	7018.0	6613.4
55°	18642.6	18631.2	17667.6	15245.0	12422.3	11188.3	10170.1	8547.4	7545.2	7068.0
57.5°	19299.4	19265.3	18394.9	16415.4	13745.0	12372.3	11147.4	9274.7	8167.9	7608.8
60°	19549.4	19528.9	18888.0	17426.7	15135.9	13681.4	12274.6	10088.3	8874.7	8247.5
62.5°	19644.8	19683.4	19372.1	18406.2	16624.5	15131.3	13513.2	11061.0	9670.1	8970.2
65°	19981.2	20051.6	19988.0	19688.0	18306.2	16829.0	15156.3	12217.8	10538.3	9745.1
67.5°	20647.1	20717.5	20744.8	21222.0	20360.7	18944.8	17206.3	13658.6	11554.2	10549.7
70°	20631.1	20610.7	21092.5	22442.5	22933.3	21874.3	19969.8	15431.3	12765.5	11217.8
72.5°	18778.9	18615.3	19753.9	22428.8	25074.2	24933.3	23344.7	17717.6	13810.9	11299.6
75°	14088.2	13651.8	15663.1	20213.0	25431.0	26669.6	25490.1	19135.7	13563.2	9983.8
77.5°	6024.8	5586.2	7956.6	14963.1	22760.6	24931.0	23522.0	16694.9	10826.9	6602.1
80°	1577.2	1574.9	2404.5	6783.9	15479.0	18410.8	16151.7	10781.5	6186.2	2359.0
82.5°	652.3	636.3	884.1	2638.6	7563.4	10331.5	8431.5	4808.9	2234.0	638.6
85°	243.2	240.9	429.5	911.3	2668.1	4261.2	3084.0	1229.5	556.8	311.4
87.5°	68.2	65.9	93.2	315.9	650.0	986.3	527.3	202.3	156.8	122.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944192
 CATALOG NUMBER: GALN-SB9A-740-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4899.8	0°	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8	4899.8
4908.9	2.5°	4915.7	4927.1	4947.6	4963.5	4983.9	5006.7	5038.5	5058.9	5079.4	5093.0
4920.3	5°	4936.2	4961.2	5013.5	5065.7	5127.1	5183.9	5249.8	5297.6	5336.2	5347.6
4961.2	7.5°	4981.7	5022.6	5111.2	5199.8	5297.6	5390.7	5486.2	5568.0	5633.9	5658.9
5033.9	10°	5061.2	5115.7	5240.7	5365.7	5495.3	5638.5	5761.2	5879.4	5972.5	6011.2
5120.3	12.5°	5161.2	5229.4	5393.0	5565.7	5745.3	5943.0	6102.1	6247.5	6363.4	6415.7
5240.7	15°	5290.7	5379.4	5588.5	5820.3	6083.9	6358.9	6561.1	6722.5	6852.0	6915.7
5365.7	17.5°	5431.6	5549.8	5813.4	6163.4	6540.7	6902.0	7138.4	7256.6	7390.7	7452.0
5481.6	20°	5568.0	5713.5	6090.7	6599.8	7102.0	7486.1	7677.0	7708.8	7717.9	7724.7
5590.7	22.5°	5708.9	5904.4	6438.4	7149.8	7688.4	7954.3	7981.6	7845.2	7654.3	7565.7
5697.5	25°	5863.4	6122.5	6893.0	7756.6	8192.9	8224.7	8015.6	7683.8	7322.5	7156.6
5783.9	27.5°	6013.4	6374.8	7438.4	8336.1	8556.5	8277.0	7827.0	7356.6	6920.2	6745.2
5845.3	30°	6163.4	6663.4	8040.6	8842.9	8722.4	8147.5	7529.3	7004.3	6565.7	6381.6
5899.8	32.5°	6315.7	6999.8	8733.8	9208.8	8692.9	7872.5	7158.9	6608.9	6222.5	6029.3
5947.5	35°	6488.4	7413.4	9390.6	9408.8	8495.2	7467.9	6670.2	6136.2	5799.8	5645.3
6004.3	37.5°	6713.4	7938.4	9970.1	9458.8	8149.7	6874.8	6063.4	5577.1	5299.8	5229.4
6088.4	40°	6993.0	8570.2	10413.3	9379.2	7638.4	6154.3	5399.8	5011.2	4854.4	4870.3
6202.1	42.5°	7356.6	9277.0	10724.7	9174.7	6927.0	5411.2	4818.0	4645.3	4720.3	4783.9
6372.5	45°	7829.3	10011.0	10917.8	8827.0	6122.5	4781.7	4474.9	4515.8	4572.6	4579.4
6647.5	47.5°	8433.8	10754.2	11045.1	8302.0	5302.1	4338.5	4256.7	4265.8	4254.4	4206.7
7058.9	50°	9188.3	11476.9	11158.7	7606.6	4604.4	4061.2	3952.1	3920.3	3763.5	3609.0
7606.6	52.5°	10047.4	12140.5	11206.5	6743.0	4061.2	3829.4	3652.2	3452.2	3159.0	3111.3
8295.2	55°	11001.9	12754.1	11083.7	5681.6	3604.4	3531.7	3263.5	3022.6	2990.8	2949.9
9202.0	57.5°	12142.8	13415.5	10833.7	4497.6	3136.3	3184.0	2922.6	2949.9	2893.1	2829.5
10367.8	60°	13390.5	14099.5	10395.1	3418.1	2652.2	2749.9	2834.0	2831.7	2815.8	2763.5
11597.3	62.5°	14513.2	14549.5	9531.5	2618.1	2227.2	2413.6	2643.1	2640.8	2627.2	2597.6
12881.4	65°	15181.3	14481.3	8090.6	2061.3	1877.2	2136.3	2384.0	2402.2	2404.5	2402.2
13847.3	67.5°	15063.1	13683.6	6113.4	1640.9	1588.6	1854.5	2127.2	2152.2	2170.4	2174.9
13970.0	70°	13726.8	11931.4	3986.2	1309.0	1331.8	1606.8	1884.0	1909.0	1924.9	1943.1
12122.3	72.5°	10699.7	8772.4	2281.7	1059.1	1106.8	1393.1	1643.1	1672.7	1681.8	1715.9
8436.1	75°	6520.2	5158.9	1231.8	834.1	909.1	1190.9	1404.5	1438.6	1454.5	1495.4
4143.0	77.5°	3099.9	2234.0	702.2	650.0	731.8	972.7	1186.3	1225.0	1181.8	1204.5
1143.1	80°	1047.7	829.5	443.2	495.4	559.1	759.1	950.0	988.6	897.7	893.2
379.5	82.5°	365.9	336.4	281.8	329.5	361.4	543.2	718.2	768.2	668.2	665.9
170.4	85°	143.2	136.4	156.8	179.5	215.9	334.1	472.7	497.7	411.4	331.8
50.0	87.5°	29.5	31.8	38.6	40.9	65.9	115.9	170.4	209.1	165.9	140.9
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°
4899.8
5083.9
5352.1
5661.2
6013.4
6415.7
6911.1
7449.8
7742.9
7590.7
7181.6
6765.7
6402.1
6054.3
5679.4
5279.4
4924.8
4843.0
4624.8
4243.0
3629.4
3127.2
2956.7
2818.1
2745.4
2586.3
2402.2
2179.5
1952.2
1729.5
1500.0
1186.3
884.1
634.1
327.3
129.5
0.0

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