

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: P944239

Luminaire Tested: **GALN-SB9A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944239
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-SB9A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36286 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

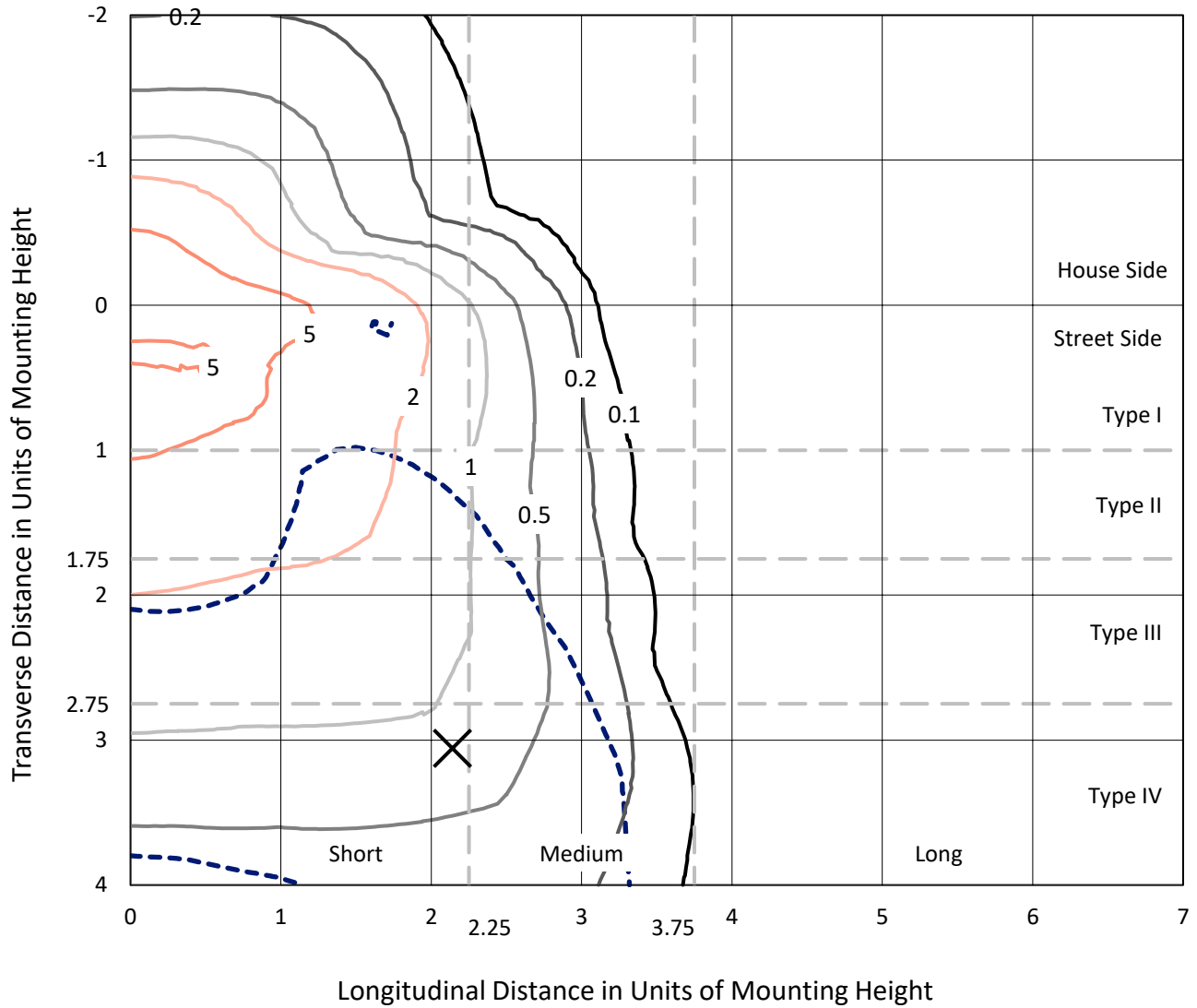
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

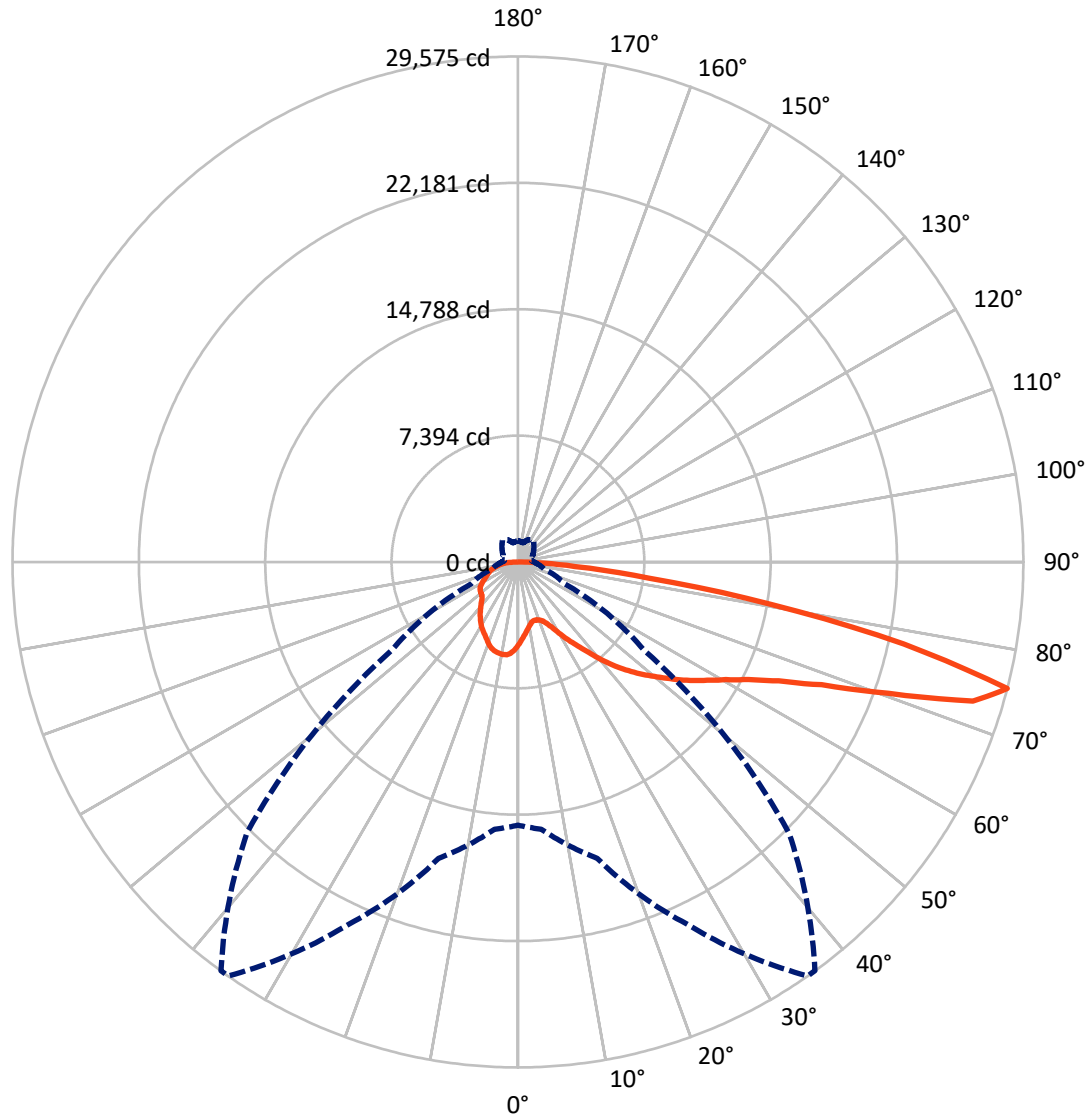
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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
House Side	Lumens	8635.2	0.0	8635.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27650.8	0.0	27650.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	36286.0	0.0	36286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	1.3
10°-20°	1320.5	3.6
20°-30°	2217.5	6.1
30°-40°	3446.3	9.5
40°-50°	5115.3	14.1
50°-60°	7061.9	19.5
60°-70°	8567.7	23.6
70°-80°	7080.6	19.5
80°-90°	1018.4	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°	36286.0	100.0
0°-180°	36286.0	100.0

Coefficient of Utilization



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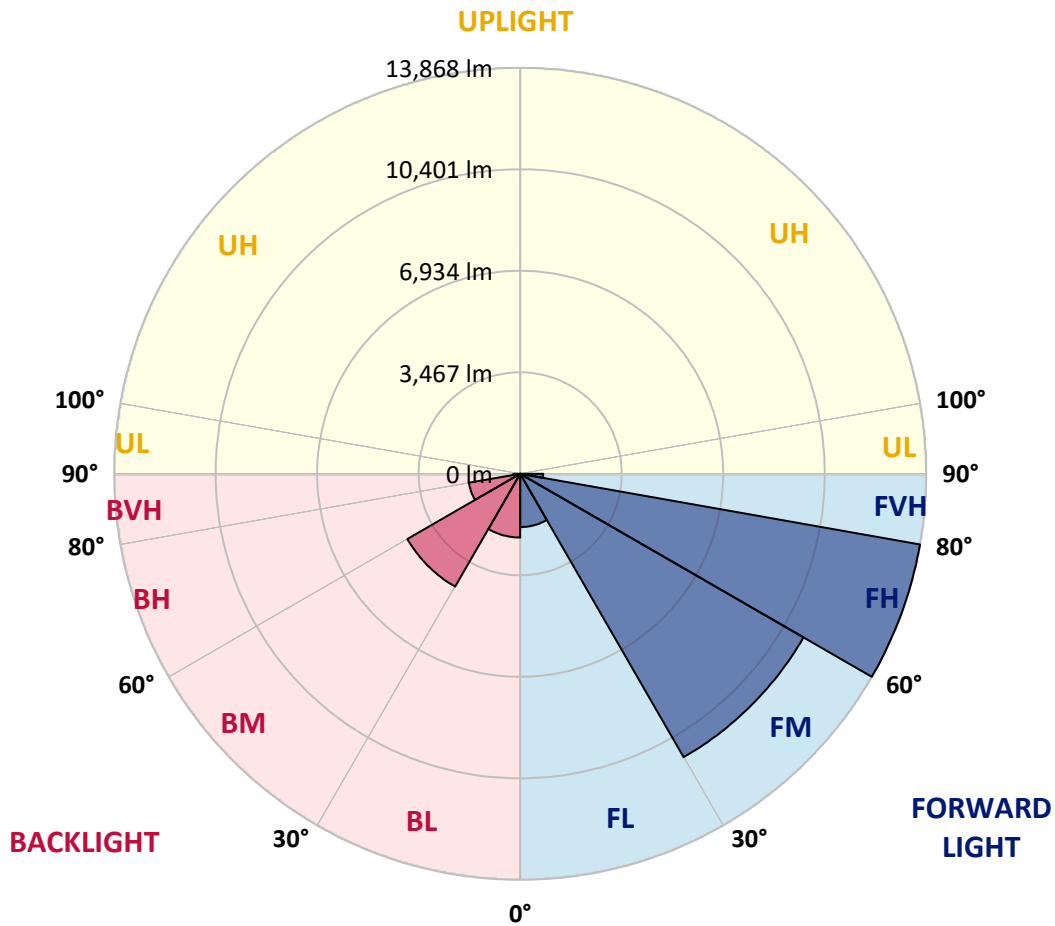
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.7	5.0			
FM (30°-60°)	11174.1	30.8			
FH (60°-80°)	13868.0	38.2			G5
FVH (80°-90°)	789.1	2.2			G5
BL (0°-30°)	2176.2	6.0	B3/2500		
BM (30°-60°)	4449.4	12.3	B3/5000		
BH (60°-80°)	1780.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	229.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4
2.5°	4458.7	4486.2	4498.0	4492.1	4521.5	4517.6	4558.8	4609.8	4680.4	4749.0
5°	4115.4	4144.9	4170.4	4193.9	4250.8	4268.5	4333.2	4431.3	4560.7	4692.2
7.5°	3795.7	3821.2	3860.4	3903.6	3999.7	4017.4	4125.3	4278.3	4458.7	4651.0
10°	3534.8	3560.3	3601.5	3650.5	3770.2	3791.8	3929.1	4133.1	4368.5	4611.7
12.5°	3423.0	3430.8	3454.4	3503.4	3607.4	3621.1	3772.2	4005.6	4280.2	4582.3
15°	3417.1	3432.8	3434.8	3460.3	3546.6	3552.5	3691.7	3923.2	4225.3	4576.4
17.5°	3476.0	3487.7	3470.1	3485.8	3558.4	3568.2	3678.0	3884.0	4207.6	4601.9
20°	3632.9	3642.7	3589.7	3568.2	3621.1	3629.0	3736.9	3909.5	4225.3	4654.9
22.5°	3966.4	3972.2	3842.8	3754.5	3758.4	3762.4	3856.5	4013.4	4294.0	4751.0
25°	4486.2	4482.3	4276.3	4105.6	4007.6	3986.0	4048.8	4182.1	4409.7	4878.5
27.5°	5094.3	5064.9	4858.9	4603.9	4390.1	4358.7	4345.0	4401.8	4574.5	5047.2
30°	5780.8	5753.4	5531.7	5198.3	4902.0	4851.0	4721.6	4692.2	4819.7	5276.7
32.5°	6534.1	6516.4	6251.6	5847.5	5451.3	5392.5	5174.7	5096.2	5196.3	5623.9
35°	7165.7	7150.0	6930.3	6514.5	6030.0	5957.4	5735.7	5647.5	5698.5	6069.2
37.5°	7736.6	7728.7	7540.4	7212.8	6712.6	6624.3	6375.2	6345.8	6336.0	6655.7
40°	8266.2	8246.6	8050.4	7877.8	7507.1	7426.6	7206.9	7181.4	7106.9	7377.6
42.5°	8852.7	8801.7	8517.3	8436.9	8336.8	8270.1	8138.7	8142.6	7977.8	8191.7
45°	9331.4	9301.9	9009.6	8962.6	9070.5	9043.0	9156.8	9186.2	8866.5	9045.0
47.5°	9845.3	9817.8	9570.7	9537.3	9829.6	9837.4	10239.6	10249.4	9733.5	9931.6
50°	10478.9	10439.7	10194.5	10235.7	10563.2	10592.7	11328.3	11261.6	10531.9	10832.0
52.5°	10896.7	10920.3	10867.3	10934.0	11381.2	11408.7	12399.3	12228.6	11322.4	11720.6
55°	11204.7	11251.8	11416.5	11569.5	12244.3	12271.8	13409.5	13148.6	11977.6	12544.5
57.5°	11600.9	11534.2	11842.2	12140.4	13064.3	13136.9	14392.3	14035.3	12558.2	13254.6
60°	12169.8	12122.7	12362.0	12803.4	13982.3	14098.1	15431.9	14833.7	12983.9	13817.5
62.5°	13323.2	13205.5	13242.8	13633.2	15139.7	15292.7	16605.0	15530.0	13195.7	14037.2
65°	15047.5	14845.4	14657.1	14927.8	16769.8	16920.8	17929.1	16077.3	13117.2	13611.6
67.5°	17219.0	17018.9	16787.4	17042.4	19170.8	19290.4	19563.1	16385.3	12499.3	11971.7
70°	19009.9	18935.4	19212.0	20261.4	23005.7	23009.6	21658.1	16130.3	10806.5	8487.9
72.5°	18772.6	18727.4	20184.9	23429.4	27839.1	27735.1	23641.3	14200.1	7279.5	3829.1
75°	15400.6	15692.8	17950.6	23372.5	29575.1	29561.4	22427.0	9027.3	3011.1	1586.9
77.5°	8258.4	8721.3	11653.9	17256.2	23088.1	23435.3	15767.4	3158.2	1292.7	1016.1
80°	2693.3	3097.4	4645.1	8786.0	15002.4	14937.6	6757.7	1239.7	884.7	719.9
82.5°	1143.6	1190.7	2075.4	4148.8	7699.3	7579.6	2151.9	712.1	621.8	492.4
85°	447.2	500.2	916.1	1918.4	3334.7	3262.1	776.8	353.1	398.2	321.7
87.5°	147.1	178.5	327.6	657.1	1037.7	1000.4	190.3	121.6	172.6	147.1
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°
4835.4	0°	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4	4835.4
4849.1	2.5°	4876.5	4907.9	4945.2	5000.1	5047.2	5086.4	5127.6	5153.1	5162.9	5192.4
4856.9	5°	4911.9	4980.5	5072.7	5162.9	5251.2	5304.2	5351.3	5374.8	5396.4	5412.1
4878.5	7.5°	4970.7	5059.0	5204.1	5321.8	5396.4	5439.5	5470.9	5463.1	5470.9	5474.8
4902.0	10°	5021.7	5145.3	5317.9	5429.7	5486.6	5488.6	5480.7	5453.3	5439.5	5441.5
4937.4	12.5°	5082.5	5219.8	5406.2	5500.3	5516.0	5472.9	5439.5	5392.5	5374.8	5366.9
4990.3	15°	5164.9	5321.8	5502.3	5537.6	5498.4	5443.5	5386.6	5310.1	5270.8	5239.4
5080.6	17.5°	5264.9	5437.6	5576.8	5551.3	5467.0	5376.8	5284.6	5168.8	5088.4	5055.1
5204.1	20°	5404.2	5559.2	5633.7	5521.9	5394.4	5257.1	5100.2	4958.9	4884.4	4851.0
5361.1	22.5°	5572.9	5722.0	5688.7	5470.9	5290.4	5070.7	4874.6	4770.6	4733.4	4709.8
5563.1	25°	5775.0	5902.5	5727.9	5396.4	5119.8	4823.6	4672.5	4639.2	4621.5	4603.9
5810.3	27.5°	6037.8	6106.5	5757.3	5286.5	4853.0	4560.7	4505.8	4511.7	4505.8	4476.4
6153.6	30°	6385.0	6371.3	5784.8	5108.0	4547.0	4323.4	4327.3	4352.8	4356.7	4337.1
6632.2	32.5°	6842.1	6702.8	5798.5	4876.5	4254.7	4115.4	4119.4	4146.8	4166.4	4133.1
7257.9	35°	7395.2	7089.2	5776.9	4586.2	4029.1	3917.3	3887.9	3895.7	3901.6	3870.2
8017.1	37.5°	8040.6	7522.8	5680.8	4264.5	3842.8	3723.1	3660.4	3607.4	3576.0	3546.6
8876.3	40°	8748.8	7995.5	5504.3	3950.7	3634.9	3517.2	3423.0	3323.0	3217.0	3177.8
9786.4	42.5°	9490.2	8482.0	5290.4	3650.5	3395.5	3299.4	3199.4	3054.2	2895.3	2814.9
10731.9	45°	10259.2	8980.2	5080.6	3354.3	3150.3	3109.1	2993.4	2818.8	2646.2	2544.2
11679.4	47.5°	11012.4	9451.0	4772.6	3056.2	2920.8	2965.9	2875.7	2714.9	2522.6	2361.8
12619.0	50°	11732.4	9892.4	4268.5	2754.1	2734.5	2922.8	2836.5	2605.0	2385.3	2179.3
13541.0	52.5°	12446.4	10249.4	3623.1	2479.5	2634.4	2911.0	2785.5	2530.5	2261.7	2046.0
14408.0	55°	13052.5	10433.8	3001.3	2244.1	2489.3	2811.0	2724.7	2442.2	2087.1	1857.6
15002.4	57.5°	13397.8	10284.7	2483.4	2012.6	2289.2	2646.2	2620.7	2253.9	1879.2	1702.7
15118.1	60°	13248.7	9680.5	2059.7	1810.6	2098.9	2467.7	2440.2	2067.5	1720.3	1553.6
14498.2	62.5°	12426.8	8529.1	1724.3	1634.0	1926.3	2285.3	2259.8	1924.3	1598.7	1437.9
12852.4	65°	10771.2	6938.2	1463.4	1486.9	1751.7	2065.6	2102.8	1804.7	1502.6	1345.7
9943.4	67.5°	8215.2	5025.6	1259.4	1359.4	1581.1	1849.8	1957.7	1718.4	1422.2	1273.1
5753.4	70°	4682.3	2854.1	1086.7	1235.8	1430.0	1649.7	1845.9	1649.7	1335.9	1212.3
2155.8	72.5°	1775.3	1310.4	939.6	1112.2	1284.9	1481.0	1722.3	1541.8	1235.8	1143.6
1114.2	75°	947.5	798.4	790.5	967.1	1118.1	1316.2	1567.3	1435.9	1161.3	1208.3
770.9	77.5°	645.4	564.9	661.1	827.8	935.7	1133.8	1402.5	1275.0	1006.3	1002.4
533.6	80°	447.2	400.2	537.5	666.9	723.8	953.3	1224.0	1094.6	820.0	765.0
329.5	82.5°	268.7	260.9	402.1	498.2	512.0	735.6	1014.1	918.0	670.9	584.6
196.2	85°	147.1	155.0	257.0	292.3	298.2	513.9	794.4	710.1	515.9	433.5
70.6	87.5°	41.2	53.0	94.2	115.7	143.2	266.8	472.7	421.7	258.9	180.5
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°
4835.4
5190.4
5416.0
5480.7
5445.4
5363.0
5249.3
5057.0
4847.1
4713.7
4603.9
4482.3
4346.9
4148.8
3891.8
3566.2
3195.5
2824.7
2536.4
2344.1
2161.7
2022.4
1838.0
1679.1
1530.1
1412.4
1320.2
1249.5
1196.6
1127.9
1247.6
923.9
731.7
588.5
437.4
180.5
0.0

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