

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: P943052

Luminaire Tested: **GALN-SB7B-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943052  
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-SB7B-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

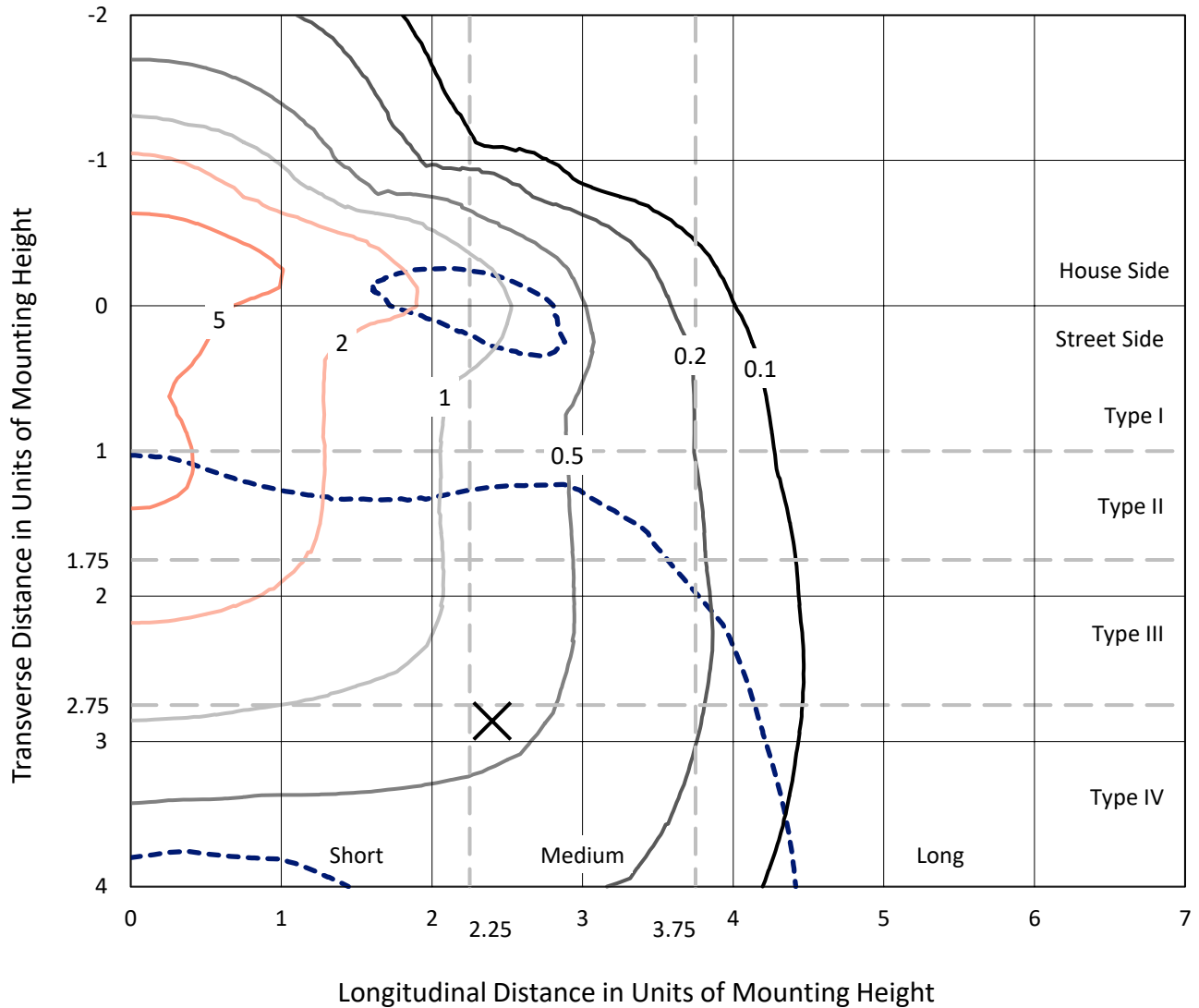
Lumens per Lamp: N/A  
Luminaire Lumens: 36820 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

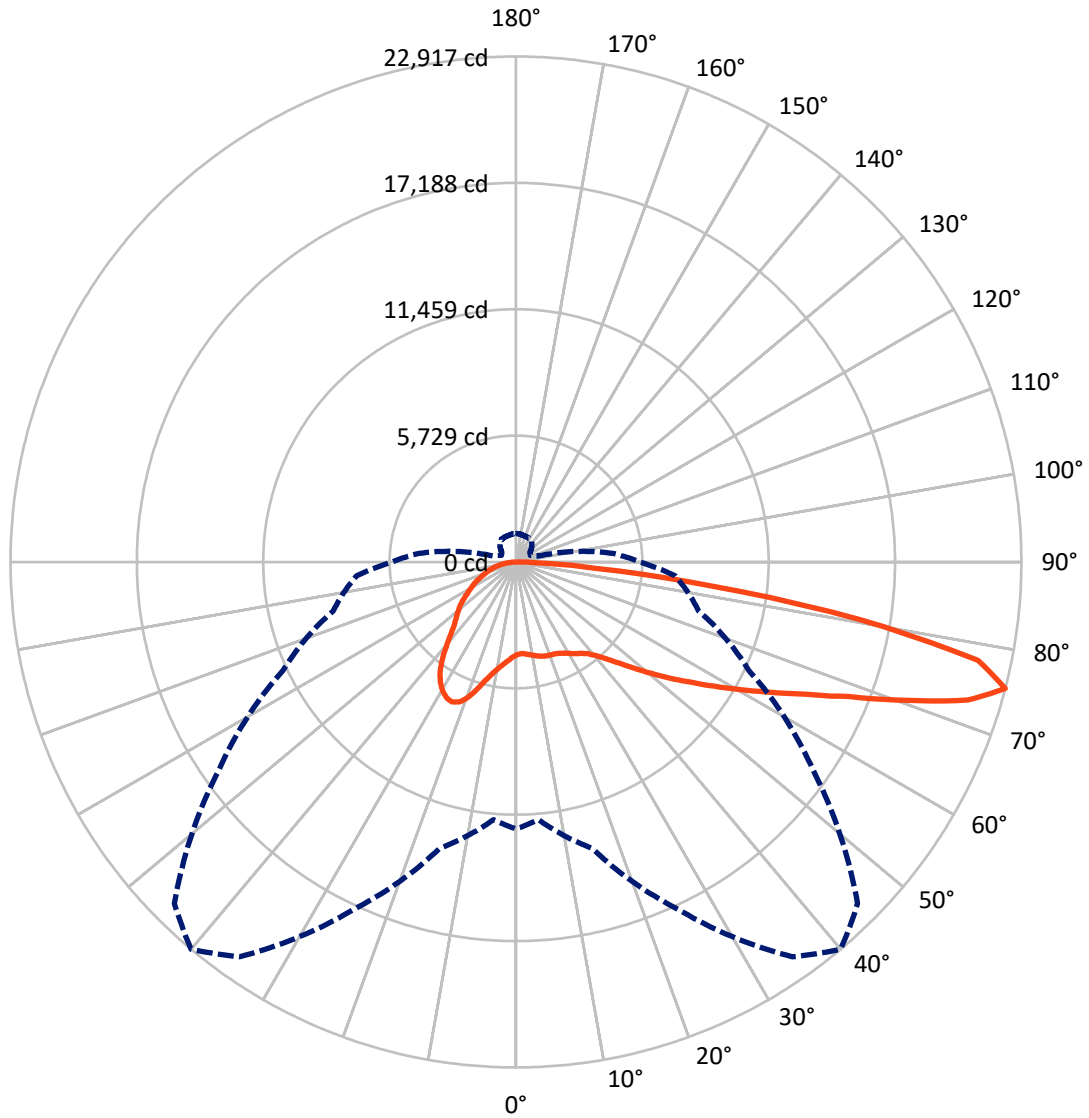
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Medium - N/A

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### 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
<b>House Side</b>	Lumens	11408.1	0.0	11408.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	25411.9	0.0	25411.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	36820.0	0.0	36820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.3	1.1
10°-20°	1411.1	3.8
20°-30°	2576.5	7.0
30°-40°	3654.2	9.9
40°-50°	4934.3	13.4
50°-60°	6637.9	18.0
60°-70°	8425.0	22.9
70°-80°	7646.2	20.8
80°-90°	1114.6	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°	36820.0	100.0
0°-180°	36820.0	100.0

**Coefficient of Utilization**

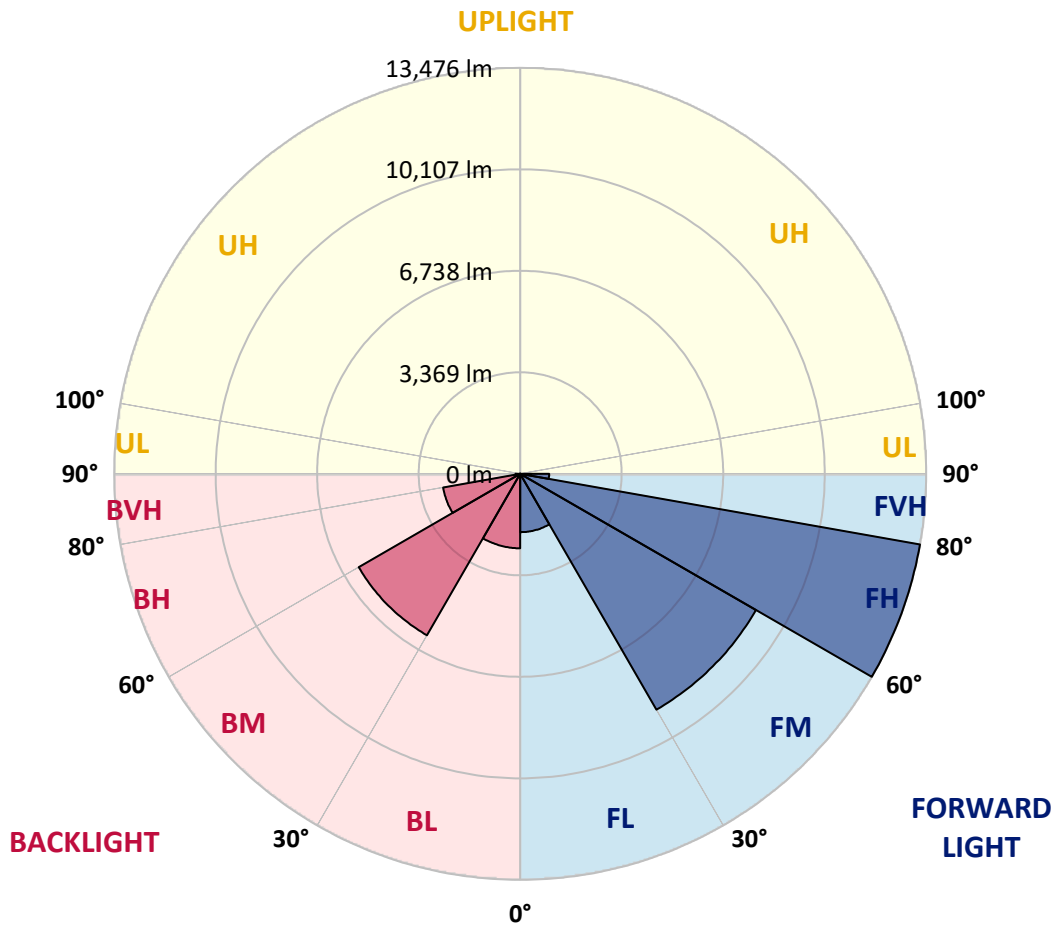


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.8	5.3			
FM (30°-60°)	9038.5	24.5			
FH (60°-80°)	13475.6	36.6			G5
FVH (80°-90°)	961.1	2.6			G5
BL (0°-30°)	2471.1	6.7	B3/2500		
BM (30°-60°)	6187.9	16.8	B4/8500		
BH (60°-80°)	2595.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	153.5	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4
2.5°	4146.0	4169.4	4163.5	4155.7	4155.7	4157.7	4155.7	4169.4	4183.1	4196.7
5°	4188.9	4212.4	4200.7	4190.9	4183.1	4181.1	4175.3	4173.3	4181.1	4198.7
7.5°	4272.9	4296.3	4278.8	4261.2	4245.6	4237.8	4229.9	4218.2	4212.4	4222.1
10°	4366.6	4390.1	4368.6	4337.4	4312.0	4302.2	4294.4	4282.7	4274.9	4280.7
12.5°	4460.4	4483.8	4454.5	4411.6	4378.4	4372.5	4362.7	4358.8	4356.9	4354.9
15°	4548.3	4567.8	4530.7	4479.9	4444.8	4435.0	4425.2	4431.1	4440.9	4452.6
17.5°	4616.6	4636.1	4581.5	4515.1	4481.9	4478.0	4472.1	4491.6	4519.0	4548.3
20°	4679.1	4698.6	4628.3	4538.5	4499.4	4499.4	4501.4	4542.4	4581.5	4624.4
22.5°	4767.0	4782.6	4696.7	4573.7	4517.0	4520.9	4536.5	4577.6	4626.4	4685.0
25°	4897.8	4909.5	4804.1	4640.1	4575.6	4587.3	4601.0	4620.5	4667.4	4735.7
27.5°	5108.7	5118.5	4979.9	4757.2	4659.6	4679.1	4698.6	4685.0	4706.4	4765.0
30°	5405.6	5411.4	5235.7	4940.8	4802.1	4811.9	4815.8	4759.2	4718.2	4765.0
32.5°	5757.1	5755.1	5546.2	5163.4	4964.2	4954.5	4921.3	4810.0	4714.3	4755.3
35°	6302.0	6280.5	6011.0	5475.9	5147.8	5087.3	5009.1	4866.6	4733.8	4745.5
37.5°	7204.2	7137.8	6764.8	5987.5	5421.2	5266.9	5151.7	4958.4	4776.8	4741.6
40°	8221.6	8137.7	7727.6	6688.6	5831.3	5583.3	5397.8	5089.2	4847.1	4759.2
42.5°	9428.5	9309.4	8868.0	7514.7	6350.8	5991.4	5712.2	5255.2	4950.6	4815.8
45°	10910.8	10752.6	10127.7	8446.2	7005.0	6526.5	6153.5	5507.1	5108.7	4925.2
47.5°	12408.6	12447.7	11559.1	9512.5	7790.1	7186.6	6706.2	5886.0	5339.2	5100.9
50°	14000.2	14027.6	12982.8	10694.0	8680.6	7932.6	7327.2	6309.8	5659.5	5350.9
52.5°	15242.3	15246.2	14275.6	11930.2	9608.2	8752.8	7997.1	6794.1	6030.5	5682.9
55°	16019.5	16009.7	15181.7	13099.9	10674.5	9614.0	8739.2	7344.8	6483.6	6073.5
57.5°	16583.9	16554.6	15806.6	14105.7	11811.0	10631.5	9578.9	7969.7	7018.7	6538.3
60°	16798.7	16781.1	16230.4	14974.7	13006.2	11756.4	10547.5	8668.8	7626.0	7087.0
62.5°	16880.7	16913.9	16646.4	15816.4	14285.3	13002.3	11611.8	9504.7	8309.5	7708.0
65°	17169.7	17230.3	17175.6	16917.8	15730.5	14461.1	13023.8	10498.7	9055.5	8374.0
67.5°	17741.9	17802.5	17825.9	18236.0	17495.9	16279.2	14785.3	11736.8	9928.5	9065.3
70°	17728.3	17710.7	18124.7	19284.7	19706.5	18796.5	17160.0	13260.1	10969.3	9639.4
72.5°	16136.7	15996.1	16974.5	19273.0	21546.2	21425.1	20060.0	15224.7	11867.7	9709.7
75°	12105.9	11731.0	13459.3	17368.9	21852.8	22917.1	21903.5	16443.3	11654.8	8579.0
77.5°	5177.1	4800.2	6837.0	12857.8	19558.1	21423.1	20212.3	14345.9	9303.5	5673.1
80°	1355.3	1353.3	2066.2	5829.4	13301.1	15820.3	13879.1	9264.5	5315.7	2027.1
82.5°	560.5	546.8	759.7	2267.3	6499.2	8877.8	7245.2	4132.3	1919.7	548.8
85°	209.0	207.0	369.1	783.1	2292.7	3661.7	2650.1	1056.5	478.5	267.5
87.5°	58.6	56.6	80.1	271.5	558.5	847.6	453.1	173.8	134.7	105.5
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°
4210.4	0°	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4	4210.4
4218.2	2.5°	4224.1	4233.9	4251.4	4265.1	4282.7	4302.2	4329.5	4347.1	4364.7	4376.4
4228.0	5°	4241.7	4263.1	4308.1	4353.0	4405.7	4454.5	4511.2	4552.2	4585.4	4595.1
4263.1	7.5°	4280.7	4315.9	4392.0	4468.2	4552.2	4632.2	4714.3	4784.6	4841.2	4862.7
4325.6	10°	4349.1	4395.9	4503.3	4610.8	4722.1	4845.1	4950.6	5052.1	5132.2	5165.4
4399.8	12.5°	4435.0	4493.6	4634.2	4782.6	4936.9	5106.8	5243.5	5368.5	5468.1	5513.0
4503.3	15°	4546.3	4622.5	4802.1	5001.3	5227.9	5464.2	5638.0	5776.6	5887.9	5942.6
4610.8	17.5°	4667.4	4768.9	4995.5	5296.2	5620.4	5930.9	6134.0	6235.6	6350.8	6403.5
4710.4	20°	4784.6	4909.5	5233.7	5671.2	6102.8	6432.8	6596.8	6624.2	6632.0	6637.8
4804.1	22.5°	4905.6	5073.6	5532.5	6143.8	6606.6	6835.1	6858.5	6741.4	6577.3	6501.1
4895.9	25°	5038.4	5261.1	5923.1	6665.2	7040.1	7067.5	6887.8	6602.7	6292.2	6149.6
4970.1	27.5°	5167.3	5477.8	6391.8	7163.2	7352.6	7112.4	6725.7	6321.5	5946.5	5796.2
5022.8	30°	5296.2	5725.9	6909.3	7598.7	7495.2	7001.1	6469.9	6018.8	5641.9	5483.7
5069.7	32.5°	5427.1	6014.9	7504.9	7913.1	7469.8	6764.8	6151.6	5679.0	5347.0	5181.0
5110.7	35°	5575.5	6370.3	8069.3	8084.9	7299.9	6417.2	5731.7	5272.8	4983.8	4851.0
5159.5	37.5°	5768.8	6821.4	8567.3	8127.9	7003.0	5907.5	5210.3	4792.4	4554.1	4493.6
5231.8	40°	6009.0	7364.3	8948.1	8059.5	6563.6	5288.4	4640.1	4306.1	4171.4	4185.0
5329.4	42.5°	6321.5	7971.7	9215.7	7883.8	5952.4	4649.8	4140.1	3991.7	4056.1	4110.8
5475.9	45°	6727.7	8602.5	9381.7	7585.0	5261.1	4108.9	3845.2	3880.4	3929.2	3935.1
5712.2	47.5°	7247.1	9241.0	9491.0	7133.9	4556.1	3728.1	3657.8	3665.6	3655.8	3614.8
6065.7	50°	7895.5	9862.1	9588.7	6536.3	3956.5	3489.8	3396.1	3368.7	3234.0	3101.2
6536.3	52.5°	8633.7	10432.3	9629.7	5794.2	3489.8	3290.6	3138.3	2966.4	2714.5	2673.5
7128.0	55°	9453.9	10959.6	9524.2	4882.2	3097.3	3034.8	2804.3	2597.3	2570.0	2534.8
7907.2	57.5°	10434.3	11527.9	9309.4	3864.8	2695.0	2736.0	2511.4	2534.8	2486.0	2431.3
8909.1	60°	11506.4	12115.7	8932.5	2937.1	2279.0	2363.0	2435.2	2433.3	2419.6	2374.7
9965.6	62.5°	12471.1	12502.4	8190.4	2249.7	1913.8	2074.0	2271.2	2269.3	2257.5	2232.1
11068.9	65°	13045.3	12443.8	6952.3	1771.3	1613.1	1835.7	2048.6	2064.2	2066.2	2064.2
11898.9	67.5°	12943.7	11758.3	5253.3	1410.0	1365.1	1593.6	1827.9	1849.4	1865.0	1868.9
12004.4	70°	11795.4	10252.6	3425.4	1124.9	1144.4	1380.7	1618.9	1640.4	1654.1	1669.7
10416.7	72.5°	9194.2	7538.1	1960.7	910.0	951.1	1197.1	1411.9	1437.3	1445.1	1474.4
7249.1	75°	5602.8	4433.0	1058.5	716.7	781.2	1023.3	1206.9	1236.2	1249.8	1285.0
3560.1	77.5°	2663.7	1919.7	603.4	558.5	628.8	835.8	1019.4	1052.6	1015.5	1035.0
982.3	80°	900.3	712.8	380.8	425.7	480.4	652.3	816.3	849.5	771.4	767.5
326.1	82.5°	314.4	289.0	242.2	283.2	310.5	466.7	617.1	660.1	574.1	572.2
146.5	85°	123.0	117.2	134.7	154.3	185.5	287.1	406.2	427.7	353.5	285.1
43.0	87.5°	25.4	27.3	33.2	35.2	56.6	99.6	146.5	179.7	142.6	121.1
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>
4210.4
4368.6
4599.0
4864.6
5167.3
5513.0
5938.7
6401.6
6653.5
6522.6
6171.1
5813.7
5501.3
5202.5
4880.3
4536.5
4231.9
4161.6
3974.1
3646.0
3118.8
2687.2
2540.7
2421.6
2359.1
2222.4
2064.2
1872.8
1677.5
1486.1
1288.9
1019.4
759.7
544.9
281.2
111.3
0.0

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