

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: STREETWORKS

Report Number: P638550

Luminaire Tested: **IFLD-M-SA4A-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638550  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10815.4 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

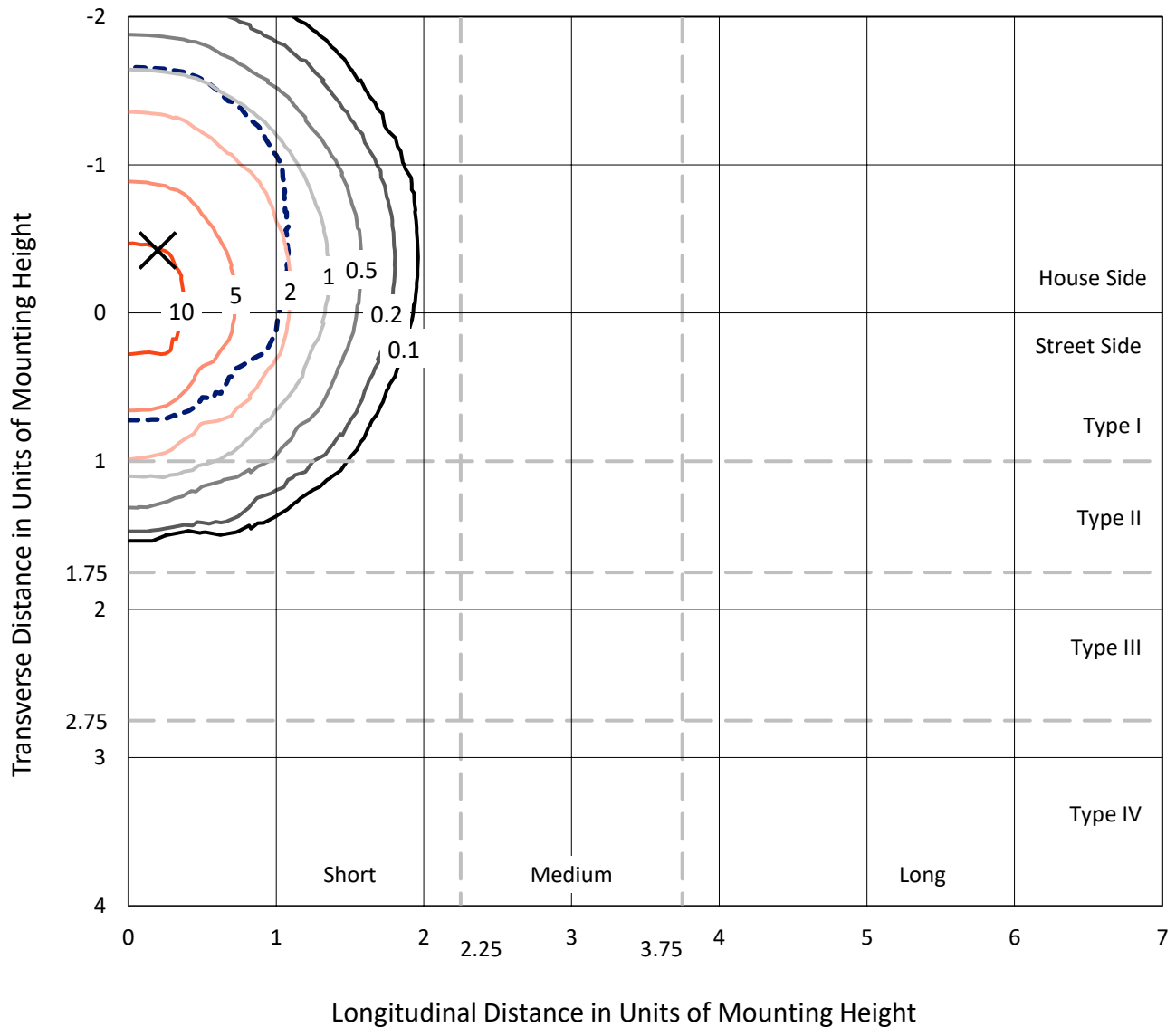
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

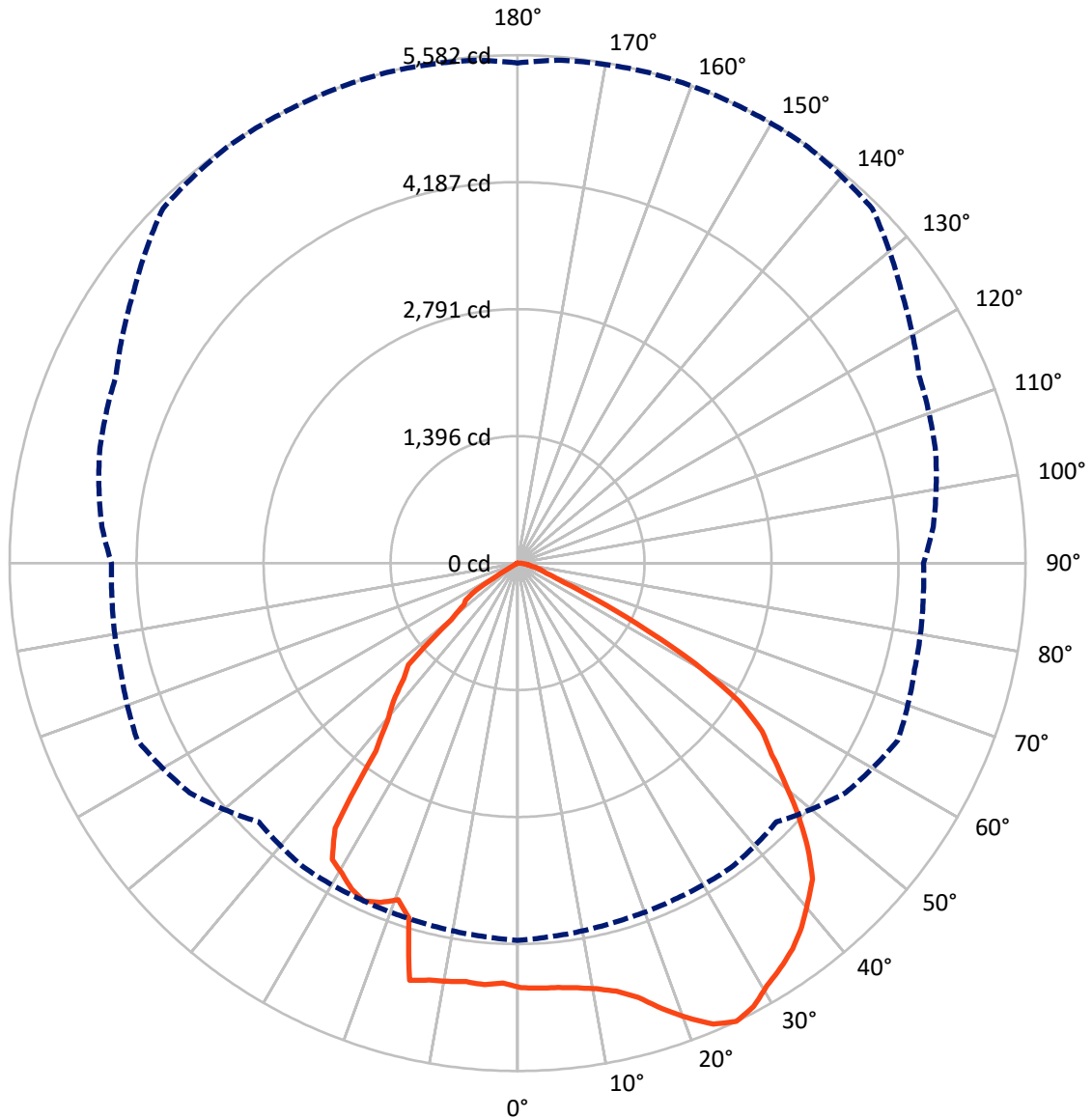
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6695.8	0.0	6695.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4119.6	0.0	4119.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	10815.4	0.0	10815.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.7	4.1
10°-20°	1367.0	12.6
20°-30°	2161.2	20.0
30°-40°	2441.3	22.6
40°-50°	2286.3	21.1
50°-60°	1576.2	14.6
60°-70°	423.5	3.9
70°-80°	88.3	0.8
80°-90°	23.9	0.2
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°	10815.4	100.0
0°-180°	10815.4	100.0



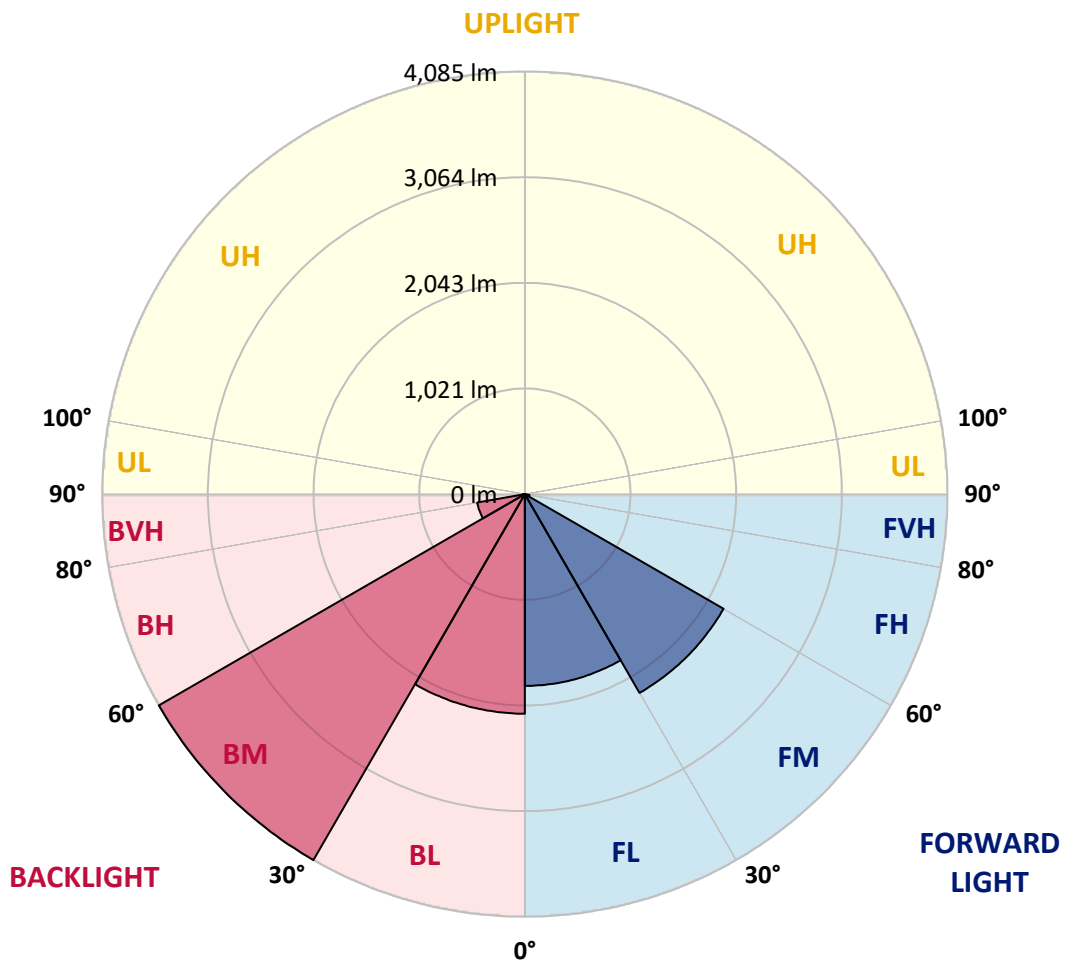
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1853.4	17.1			
FM (30°-60°)	2218.5	20.5			
FH (60°-80°)	44.5	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2122.5	19.6	B3/2500		
BM (30°-60°)	4085.4	37.8	B3/5000		
BH (60°-80°)	467.3	4.3	B1/500		G1/500
BVH (80°-90°)	20.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
2.5°	4687.3	4657.1	4628.5	4619.0	4658.7	4701.6	4674.6	4676.2	4666.7	4684.1
5°	4722.3	4681.0	4661.9	4647.6	4653.9	4698.4	4660.3	4674.6	4658.7	4679.4
7.5°	4709.6	4681.0	4661.9	4634.9	4655.5	4708.0	4671.4	4673.0	4665.1	4684.1
10°	4701.6	4681.0	4657.1	4660.3	4684.1	4728.6	4700.0	4715.9	4704.8	4715.9
12.5°	4720.7	4698.4	4685.7	4685.7	4706.4	4757.3	4742.9	4757.3	4752.5	4762.0
15°	4541.1	4561.7	4682.5	4736.6	4777.9	4828.8	4822.4	4836.7	4839.9	4854.2
17.5°	3830.6	3809.9	3800.4	4078.6	4817.7	4975.0	4970.2	4968.6	4952.8	4941.6
20°	3924.4	3916.4	3905.3	3926.0	4008.6	5051.3	5083.1	4887.6	4830.4	4825.6
22.5°	4073.8	4061.1	4019.7	4021.3	4046.8	4391.7	4925.7	4747.7	4728.6	4717.5
25°	4146.9	4121.5	4088.1	4078.6	4086.5	4022.9	4399.6	4611.0	4517.2	4474.3
27.5°	4018.2	4019.7	3992.7	4018.2	3988.0	3701.9	3541.3	4344.0	4340.8	4321.7
30°	3921.2	3916.4	3884.6	3916.4	3708.2	3388.7	3320.4	4051.5	4018.2	3992.7
32.5°	3624.0	3627.1	3719.3	3843.3	3501.6	3248.9	3042.2	3619.2	3935.5	3921.2
35°	2592.4	2598.8	2926.2	3538.1	3188.5	2970.7	2954.8	3128.1	3805.2	3811.5
37.5°	2495.5	2495.5	2487.5	2587.6	2942.1	2857.8	2889.6	2872.2	3485.7	3501.6
40°	2425.5	2411.2	2400.1	2242.7	2045.6	2778.4	2800.6	2721.2	3294.9	3298.1
42.5°	2341.3	2325.4	2328.6	2037.7	1831.1	2581.3	2519.3	2412.8	2977.1	2980.2
45°	2187.1	2214.1	2233.2	1783.4	1767.5	1843.8	2323.8	2257.0	2762.5	2821.3
47.5°	1112.6	1136.5	1743.6	1640.3	1676.9	1638.7	1963.0	1964.6	2298.4	2493.9
50°	1009.3	1002.9	1004.5	956.9	1548.1	1325.6	1419.4	1800.9	1840.6	2120.3
52.5°	941.0	939.4	842.4	748.6	972.7	1166.7	1030.0	1303.4	1368.5	1796.1
55°	696.2	747.0	664.4	704.1	608.8	934.6	929.8	1176.2	1198.5	1440.1
57.5°	6.4	7.9	19.1	535.6	421.2	467.3	642.1	802.7	842.4	1122.2
60°	1.6	3.2	7.9	15.9	273.4	287.7	429.2	464.1	522.9	669.2
62.5°	0.0	0.0	3.2	7.9	14.3	117.6	136.7	149.4	230.5	341.7
65°	0.0	0.0	1.6	4.8	7.9	19.1	33.4	69.9	100.1	124.0
67.5°	0.0	0.0	1.6	3.2	6.4	9.5	19.1	27.0	42.9	73.1
70°	0.0	0.0	1.6	3.2	4.8	7.9	12.7	19.1	25.4	36.6
72.5°	0.0	0.0	1.6	3.2	3.2	9.5	9.5	14.3	19.1	23.8
75°	0.0	0.0	1.6	1.6	3.2	6.4	9.5	11.1	12.7	19.1
77.5°	0.0	0.0	1.6	3.2	4.8	6.4	7.9	12.7	11.1	11.1
80°	0.0	0.0	1.6	4.8	4.8	7.9	9.5	12.7	7.9	7.9
82.5°	0.0	0.0	1.6	6.4	4.8	15.9	15.9	17.5	6.4	6.4
85°	0.0	0.0	4.8	3.2	9.5	15.9	14.3	9.5	7.9	4.8
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	11.1	9.5	3.2	3.2
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4666.7	0°	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7	4666.7
4638.0	2.5°	4701.6	4681.0	4723.9	4719.1	4698.4	4688.9	4677.8	4668.2	4598.3
4641.2	5°	4703.2	4671.4	4723.9	4714.3	4711.2	4695.3	4685.7	4700.0	4636.5
4653.9	7.5°	4703.2	4671.4	4728.6	4731.8	4727.1	4714.3	4712.7	4722.3	4669.8
4676.2	10°	4735.0	4722.3	4770.0	4774.7	4768.4	4765.2	4757.3	4750.9	4695.3
4752.5	12.5°	4801.8	4776.3	4830.4	4844.7	4839.9	4847.9	4828.8	4838.3	4781.1
4830.4	15°	4882.8	4884.4	4925.7	4957.5	4954.3	4979.8	4951.2	4976.6	4935.3
4919.4	17.5°	5006.8	5024.3	5083.1	5130.8	5148.3	5167.3	5148.3	5156.2	5097.4
4820.8	20°	4876.5	4941.6	5224.6	5312.0	5348.5	5366.0	5334.2	5343.8	5285.0
4700.0	22.5°	4758.8	4843.1	5094.2	5367.6	5480.5	5515.4	5504.3	5502.7	5480.5
4461.6	25°	4585.6	4755.7	4868.5	5157.8	5512.2	5575.8	5582.2	5580.6	5547.2
4315.4	27.5°	4372.6	4410.7	4703.2	4879.6	5289.7	5531.3	5521.8	5475.7	5431.2
4011.8	30°	4100.8	4274.1	4406.0	4687.3	5002.0	5394.6	5394.6	5359.7	5313.6
3903.7	32.5°	3962.5	4186.6	4309.0	4410.7	4679.4	5242.0	5305.6	5269.1	5232.5
3819.5	35°	3889.4	3922.8	4208.9	4301.1	4528.4	4948.0	5205.5	5168.9	5141.9
3595.4	37.5°	3728.9	3806.8	3940.3	4186.6	4256.6	4708.0	5072.0	5052.9	5021.1
3304.5	40°	3371.2	3579.5	3784.5	4018.2	4091.3	4399.6	4909.8	4917.8	4874.9
2994.5	42.5°	3159.8	3301.3	3622.4	3779.7	3976.8	4200.9	4752.5	4765.2	4735.0
2837.2	45°	2911.9	3069.2	3294.9	3581.1	3849.7	3927.6	4474.3	4607.8	4582.4
2524.1	47.5°	2684.6	2811.8	3088.3	3377.6	3674.8	3663.7	4154.8	4406.0	4371.0
2284.1	50°	2361.9	2584.5	2714.8	2980.2	3423.7	3453.9	3814.7	4169.2	4140.5
1940.7	52.5°	1991.6	2271.3	2520.9	2764.1	3169.4	3240.9	3498.4	3927.6	3908.5
1483.0	55°	1740.5	1943.9	2225.2	2420.7	2861.0	3051.8	3261.6	3697.1	3687.5
1219.1	57.5°	1238.2	1630.8	1862.8	2136.2	2368.3	2713.2	2869.0	3228.2	3139.2
675.5	60°	839.2	1023.6	1306.5	1600.6	1756.4	2101.3	2245.9	2533.6	2509.8
403.7	62.5°	443.5	613.5	815.4	963.2	1076.1	1411.4	1471.8	1781.8	1773.8
162.1	65°	195.5	259.1	441.9	518.2	634.2	790.0	842.4	953.7	926.7
79.5	67.5°	101.7	154.2	249.5	306.8	386.2	445.0	488.0	522.9	545.2
52.5	70°	62.0	112.9	154.2	213.0	265.4	313.1	346.5	394.2	422.8
27.0	72.5°	46.1	71.5	106.5	163.7	192.3	248.0	281.3	316.3	341.7
22.3	75°	25.4	47.7	85.8	128.7	154.2	201.9	232.1	255.9	263.9
12.7	77.5°	15.9	36.6	71.5	100.1	120.8	163.7	155.8	178.0	197.1
9.5	80°	11.1	27.0	55.6	82.7	84.2	104.9	124.0	143.1	155.8
6.4	82.5°	7.9	22.3	41.3	63.6	55.6	81.1	97.0	111.3	81.1
4.8	85°	6.4	15.9	20.7	38.1	31.8	57.2	49.3	47.7	31.8
3.2	87.5°	4.8	7.9	14.3	17.5	12.7	12.7	15.9	19.1	15.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
4666.7
4550.6
4582.4
4609.4
4649.2
4730.2
4866.9
5046.5
5243.6
5408.9
5496.4
5396.2
5296.1
5202.3
5103.8
4989.3
4865.3
4731.8
4585.6
4396.4
4145.3
3921.2
3698.7
3129.6
2511.3
1775.4
915.5
545.2
424.4
346.5
259.1
200.3
157.4
58.8
31.8
15.9
0.0

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