

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: P638453

Luminaire Tested: **IFLD-S-SA3A-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638453  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10372.7 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

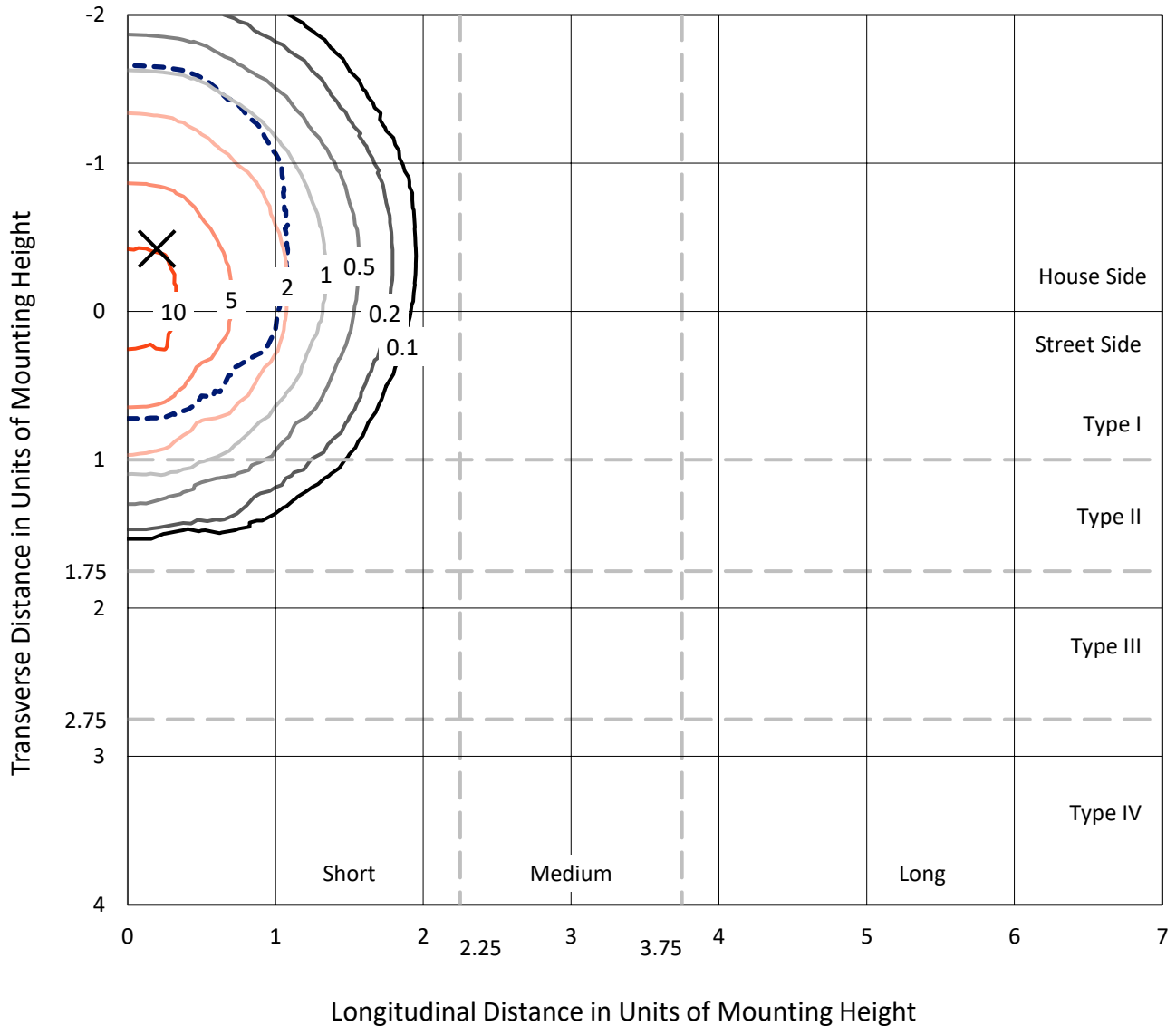
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

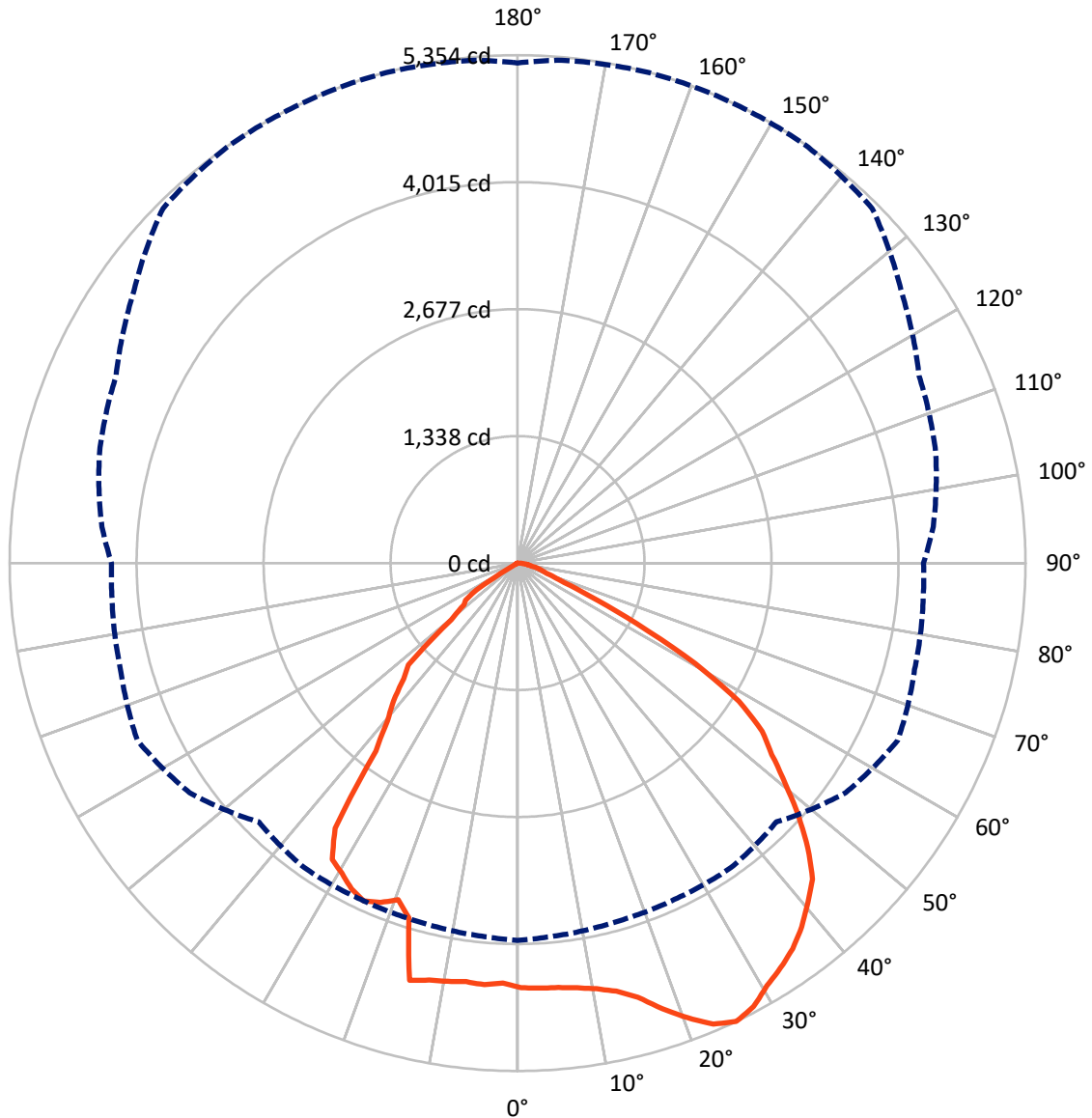
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 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	6421.8	0.0	6421.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3950.9	0.0	3950.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	10372.7	0.0	10372.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.4	4.1
10°-20°	1311.1	12.6
20°-30°	2072.8	20.0
30°-40°	2341.4	22.6
40°-50°	2192.7	21.1
50°-60°	1511.7	14.6
60°-70°	406.1	3.9
70°-80°	84.6	0.8
80°-90°	22.9	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°	10372.7	100.0
0°-180°	10372.7	100.0



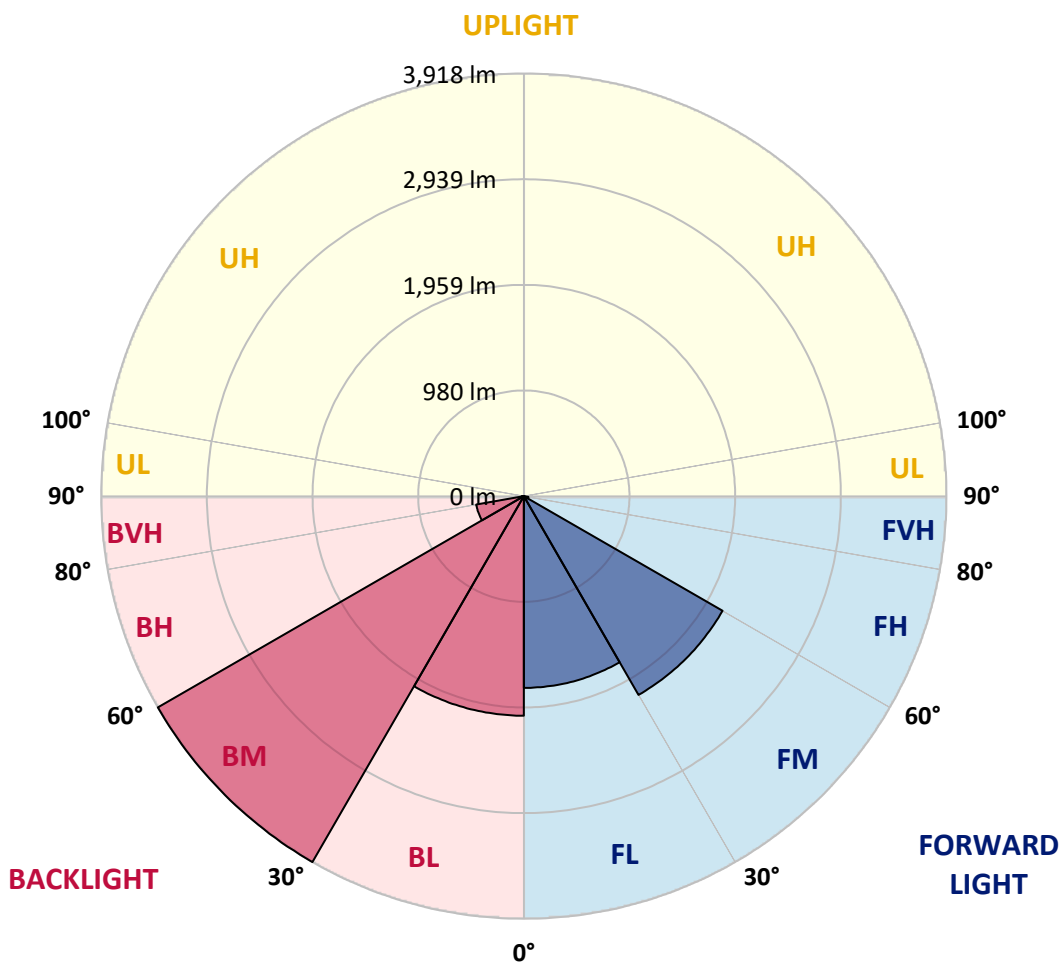
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1777.6	17.1			
FM (30°-60°)	2127.7	20.5			
FH (60°-80°)	42.6	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2035.7	19.6	B3/2500		
BM (30°-60°)	3918.2	37.8	B3/5000		
BH (60°-80°)	448.2	4.3	B1/500		G1/500
BVH (80°-90°)	19.8	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°	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7
2.5°	4495.5	4466.5	4439.1	4429.9	4468.0	4509.2	4483.3	4484.8	4475.7	4492.4
5°	4529.0	4489.4	4471.1	4457.4	4463.5	4506.1	4469.6	4483.3	4468.0	4487.9
7.5°	4516.8	4489.4	4471.1	4445.2	4465.0	4515.3	4480.2	4481.8	4474.1	4492.4
10°	4509.2	4489.4	4466.5	4469.6	4492.4	4535.1	4507.7	4522.9	4512.2	4522.9
12.5°	4527.5	4506.1	4494.0	4494.0	4513.8	4562.6	4548.8	4562.6	4558.0	4567.1
15°	4355.2	4375.0	4490.9	4542.7	4582.4	4631.1	4625.1	4638.8	4641.8	4655.5
17.5°	3673.8	3654.0	3644.9	3911.6	4620.5	4771.4	4766.8	4765.3	4750.1	4739.4
20°	3763.8	3756.1	3745.5	3765.3	3844.6	4844.6	4875.1	4687.6	4632.7	4628.1
22.5°	3907.1	3894.9	3855.2	3856.7	3881.1	4211.9	4724.1	4553.4	4535.1	4524.4
25°	3977.2	3952.8	3920.8	3911.6	3919.3	3858.3	4219.6	4422.3	4332.4	4291.2
27.5°	3853.7	3855.2	3829.3	3853.7	3824.7	3550.3	3396.4	4166.2	4163.2	4144.9
30°	3760.7	3756.1	3725.7	3756.1	3556.4	3250.0	3184.5	3885.7	3853.7	3829.3
32.5°	3475.6	3478.7	3567.1	3686.0	3358.3	3115.9	2917.7	3471.1	3774.4	3760.7
35°	2486.3	2492.4	2806.4	3393.3	3058.0	2849.1	2833.9	3000.0	3649.4	3655.5
37.5°	2393.3	2393.3	2385.7	2481.7	2821.7	2740.9	2771.4	2754.6	3343.0	3358.3
40°	2326.2	2312.5	2301.9	2150.9	1961.9	2664.7	2686.0	2609.8	3160.1	3163.1
42.5°	2245.5	2230.2	2233.3	1954.3	1756.1	2475.6	2416.2	2314.0	2855.2	2858.3
45°	2097.6	2123.5	2141.8	1710.4	1695.1	1768.3	2228.7	2164.7	2649.4	2705.8
47.5°	1067.1	1090.0	1672.3	1573.2	1608.2	1571.7	1882.6	1884.2	2204.3	2391.8
50°	968.0	961.9	963.4	917.7	1484.8	1271.4	1361.3	1727.2	1765.3	2033.6
52.5°	902.4	900.9	807.9	718.0	932.9	1118.9	987.8	1250.0	1312.5	1722.6
55°	667.7	716.5	637.2	675.3	583.8	896.4	891.8	1128.1	1149.4	1381.1
57.5°	6.1	7.6	18.3	513.7	404.0	448.2	615.9	769.8	807.9	1076.2
60°	1.5	3.0	7.6	15.2	262.2	275.9	411.6	445.1	501.5	641.8
62.5°	0.0	0.0	3.0	7.6	13.7	112.8	131.1	143.3	221.0	327.7
65°	0.0	0.0	1.5	4.6	7.6	18.3	32.0	67.1	96.0	118.9
67.5°	0.0	0.0	1.5	3.0	6.1	9.1	18.3	25.9	41.2	70.1
70°	0.0	0.0	1.5	3.0	4.6	7.6	12.2	18.3	24.4	35.1
72.5°	0.0	0.0	1.5	3.0	3.0	9.1	9.1	13.7	18.3	22.9
75°	0.0	0.0	1.5	1.5	3.0	6.1	9.1	10.7	12.2	18.3
77.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	12.2	10.7	10.7
80°	0.0	0.0	1.5	4.6	4.6	7.6	9.1	12.2	7.6	7.6
82.5°	0.0	0.0	1.5	6.1	4.6	15.2	15.2	16.8	6.1	6.1
85°	0.0	0.0	4.6	3.0	9.1	15.2	13.7	9.1	7.6	4.6
87.5°	0.0	0.0	1.5	1.5	3.0	4.6	10.7	9.1	3.0	3.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4475.7	0°	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7
4448.2	2.5°	4509.2	4489.4	4530.5	4526.0	4506.1	4497.0	4486.3	4477.2	4410.1
4451.3	5°	4510.7	4480.2	4530.5	4521.4	4518.3	4503.1	4494.0	4507.7	4446.7
4463.5	7.5°	4510.7	4480.2	4535.1	4538.2	4533.6	4521.4	4519.9	4529.0	4478.7
4484.8	10°	4541.2	4529.0	4574.7	4579.3	4573.2	4570.2	4562.6	4556.5	4503.1
4558.0	12.5°	4605.2	4580.8	4632.7	4646.4	4641.8	4649.4	4631.1	4640.3	4585.4
4632.7	15°	4683.0	4684.5	4724.1	4754.6	4751.6	4776.0	4748.5	4772.9	4733.3
4718.0	17.5°	4801.9	4818.7	4875.1	4920.8	4937.6	4955.8	4937.6	4945.2	4888.8
4623.5	20°	4676.9	4739.4	5010.7	5094.6	5129.6	5146.4	5115.9	5125.1	5068.7
4507.7	22.5°	4564.1	4644.9	4885.7	5147.9	5256.2	5289.7	5279.0	5277.5	5256.2
4279.0	25°	4397.9	4561.0	4669.3	4946.7	5286.6	5347.6	5353.7	5352.2	5320.2
4138.8	27.5°	4193.6	4230.2	4510.7	4679.9	5073.2	5304.9	5295.8	5251.6	5208.9
3847.6	30°	3933.0	4099.1	4225.7	4495.5	4797.3	5173.8	5173.8	5140.3	5096.1
3743.9	32.5°	3800.3	4015.3	4132.7	4230.2	4487.9	5027.5	5088.5	5053.4	5018.3
3663.1	35°	3730.2	3762.2	4036.6	4125.0	4343.0	4745.5	4992.4	4957.4	4931.5
3448.2	37.5°	3576.3	3651.0	3779.0	4015.3	4082.4	4515.3	4864.4	4846.1	4815.6
3169.2	40°	3233.3	3433.0	3629.6	3853.7	3923.8	4219.6	4708.9	4716.5	4675.4
2872.0	42.5°	3030.5	3166.2	3474.1	3625.0	3814.1	4029.0	4558.0	4570.2	4541.2
2721.1	45°	2792.7	2943.6	3160.1	3434.5	3692.1	3766.8	4291.2	4419.3	4394.9
2420.8	47.5°	2574.7	2696.7	2961.9	3239.4	3524.4	3513.8	3984.8	4225.7	4192.1
2190.6	50°	2265.3	2478.7	2603.7	2858.3	3283.6	3312.5	3658.6	3998.5	3971.1
1861.3	52.5°	1910.1	2178.4	2417.7	2650.9	3039.7	3108.3	3355.2	3766.8	3748.5
1422.3	55°	1669.2	1864.3	2134.2	2321.7	2743.9	2926.9	3128.1	3545.8	3536.6
1169.2	57.5°	1187.5	1564.0	1786.6	2048.8	2271.4	2602.2	2751.6	3096.1	3010.7
647.9	60°	804.9	981.7	1253.1	1535.1	1684.5	2015.3	2154.0	2429.9	2407.0
387.2	62.5°	425.3	588.4	782.0	923.8	1032.0	1353.7	1411.6	1708.9	1701.2
155.5	65°	187.5	248.5	423.8	497.0	608.2	757.6	807.9	914.6	888.7
76.2	67.5°	97.6	147.9	239.3	294.2	370.4	426.8	468.0	501.5	522.9
50.3	70°	59.5	108.2	147.9	204.3	254.6	300.3	332.3	378.1	405.5
25.9	72.5°	44.2	68.6	102.1	157.0	184.5	237.8	269.8	303.4	327.7
21.3	75°	24.4	45.7	82.3	123.5	147.9	193.6	222.6	245.4	253.1
12.2	77.5°	15.2	35.1	68.6	96.0	115.9	157.0	149.4	170.7	189.0
9.1	80°	10.7	25.9	53.4	79.3	80.8	100.6	118.9	137.2	149.4
6.1	82.5°	7.6	21.3	39.6	61.0	53.4	77.7	93.0	106.7	77.7
4.6	85°	6.1	15.2	19.8	36.6	30.5	54.9	47.3	45.7	30.5
3.0	87.5°	4.6	7.6	13.7	16.8	12.2	12.2	15.2	18.3	15.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
4475.7
4364.4
4394.9
4420.8
4458.9
4536.6
4667.7
4840.0
5029.0
5187.6
5271.4
5175.4
5079.3
4989.4
4894.9
4785.1
4666.2
4538.2
4397.9
4216.5
3975.7
3760.7
3547.3
3001.6
2408.6
1702.8
878.1
522.9
407.0
332.3
248.5
192.1
150.9
56.4
30.5
15.2
0.0

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