

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: P636862

Luminaire Tested: **IFLD-S-SA3E-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636862
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12586.2 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

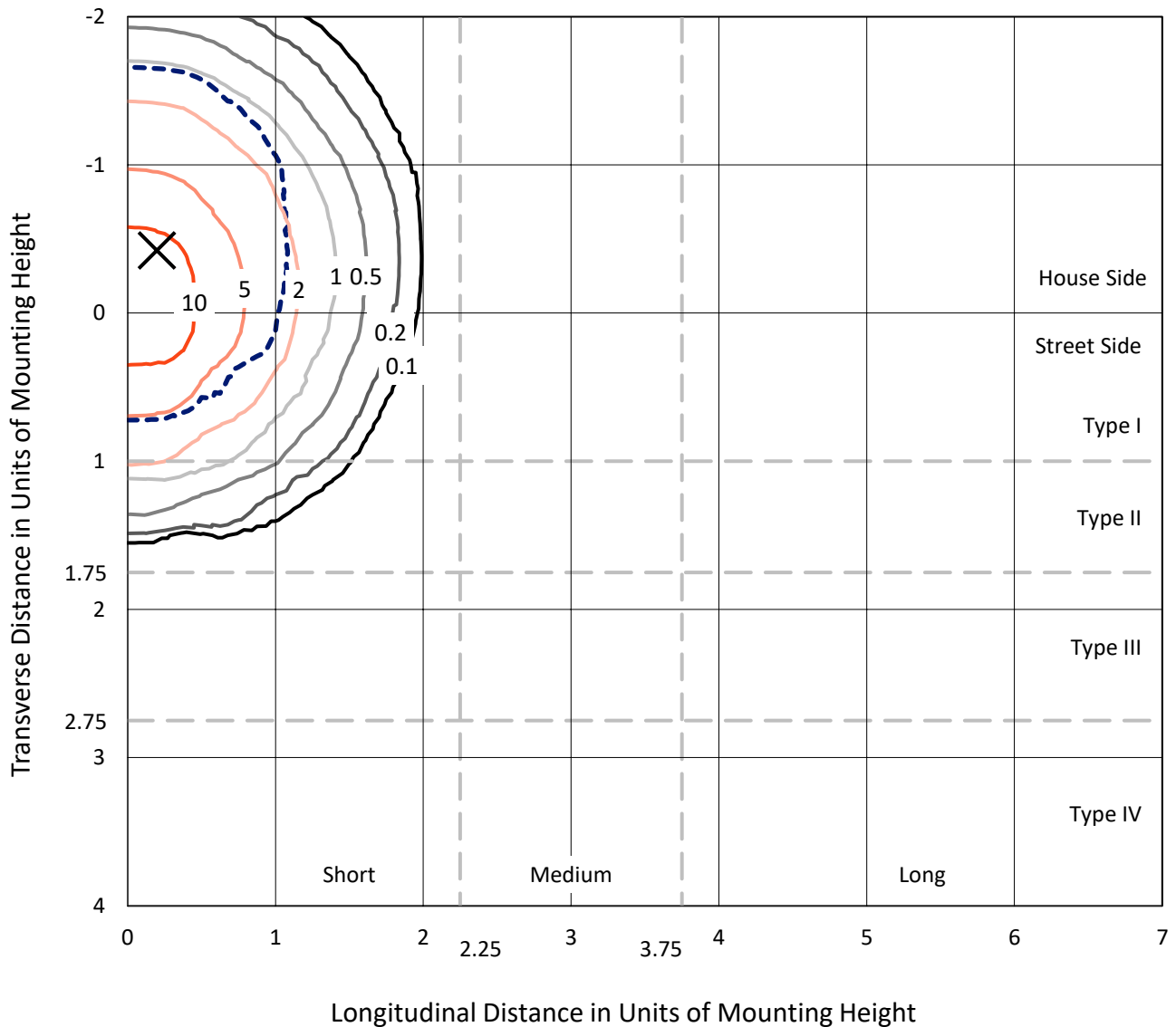
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

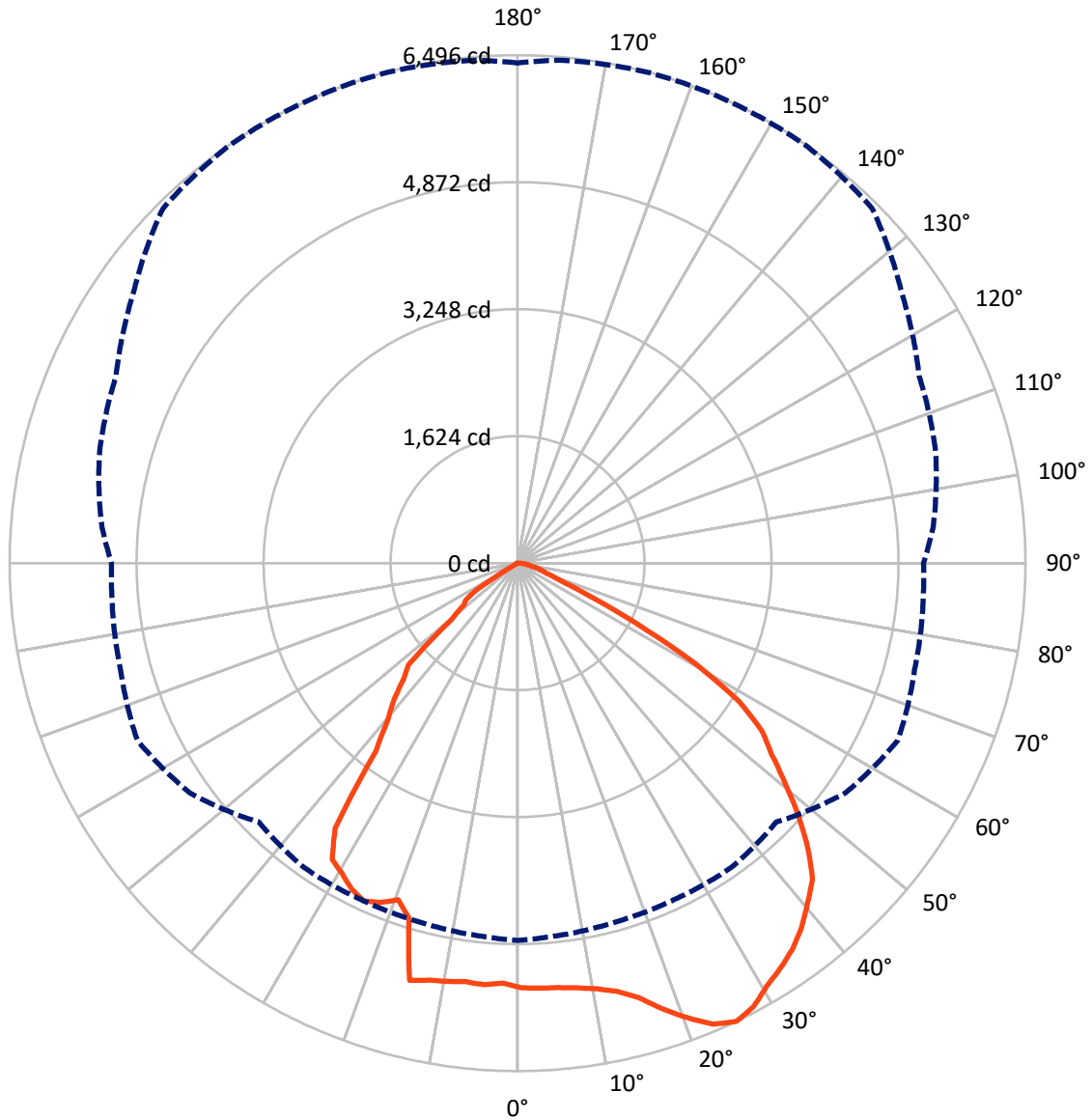
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.6 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
House Side	Lumens	7792.2	0.0	7792.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4794.0	0.0	4794.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	12586.2	0.0	12586.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.0	4.1
10°-20°	1590.9	12.6
20°-30°	2515.1	20.0
30°-40°	2841.0	22.6
40°-50°	2660.6	21.1
50°-60°	1834.3	14.6
60°-70°	492.8	3.9
70°-80°	102.7	0.8
80°-90°	27.8	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°	12586.2	100.0
0°-180°	12586.2	100.0



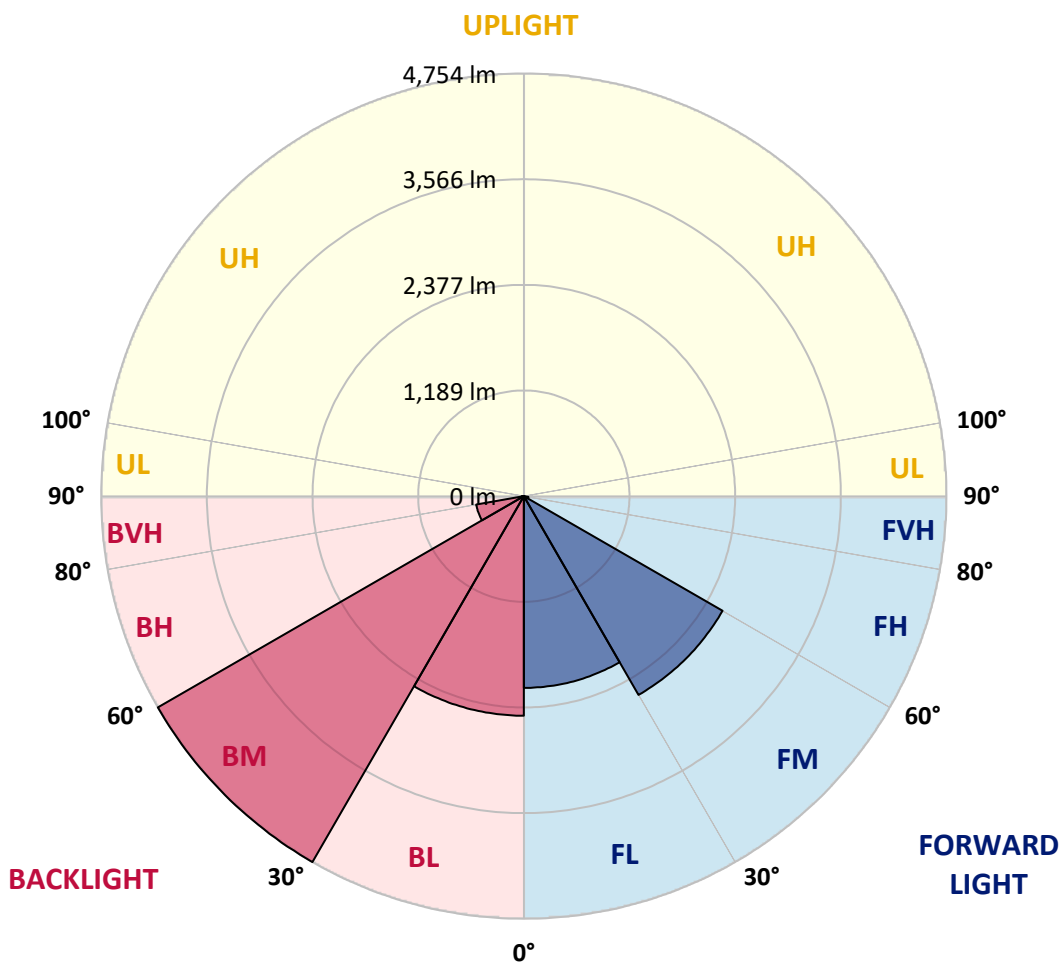
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2156.9	17.1			
FM (30°-60°)	2581.7	20.5			
FH (60°-80°)	51.7	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2470.1	19.6	B3/2500		
BM (30°-60°)	4754.3	37.8	B3/5000		
BH (60°-80°)	543.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7
2.5°	5454.8	5419.6	5386.3	5375.2	5421.5	5471.4	5440.0	5441.8	5430.7	5451.1
5°	5495.5	5447.4	5425.2	5408.5	5415.9	5467.7	5423.3	5440.0	5421.5	5445.5
7.5°	5480.7	5447.4	5425.2	5393.7	5417.8	5478.8	5436.3	5438.1	5428.9	5451.1
10°	5471.4	5447.4	5419.6	5423.3	5451.1	5502.9	5469.6	5488.1	5475.1	5488.1
12.5°	5493.6	5467.7	5452.9	5452.9	5477.0	5536.2	5519.5	5536.2	5530.6	5541.7
15°	5284.6	5308.7	5449.2	5512.1	5560.2	5619.4	5612.0	5628.7	5632.4	5649.0
17.5°	4457.8	4433.7	4422.7	4746.3	5606.5	5789.6	5784.0	5782.2	5763.7	5750.7
20°	4566.9	4557.7	4544.7	4568.8	4665.0	5878.4	5915.4	5687.9	5621.3	5615.7
22.5°	4740.8	4726.0	4677.9	4679.8	4709.4	5110.7	5732.2	5525.1	5502.9	5489.9
25°	4825.9	4796.3	4757.4	4746.3	4755.6	4681.6	5120.0	5366.0	5256.9	5206.9
27.5°	4676.1	4677.9	4646.5	4676.1	4640.9	4308.0	4121.1	5055.3	5051.6	5029.4
30°	4563.2	4557.7	4520.7	4557.7	4315.4	3943.6	3864.0	4714.9	4676.1	4646.5
32.5°	4217.3	4221.0	4328.3	4472.6	4074.9	3780.8	3540.3	4211.8	4579.9	4563.2
35°	3016.9	3024.3	3405.3	4117.4	3710.5	3457.1	3438.6	3640.2	4428.2	4435.6
37.5°	2904.0	2904.0	2894.8	3011.3	3423.8	3325.8	3362.8	3342.4	4056.4	4074.9
40°	2822.7	2806.0	2793.1	2609.9	2380.6	3233.3	3259.2	3166.7	3834.4	3838.1
42.5°	2724.6	2706.1	2709.8	2371.3	2130.9	3003.9	2931.8	2807.9	3464.5	3468.2
45°	2545.2	2576.6	2598.8	2075.4	2056.9	2145.7	2704.3	2626.6	3214.8	3283.2
47.5°	1294.8	1322.5	2029.1	1908.9	1951.4	1907.0	2284.4	2286.2	2674.7	2902.2
50°	1174.6	1167.2	1169.0	1113.5	1801.6	1542.7	1651.8	2095.7	2142.0	2467.5
52.5°	1095.0	1093.2	980.3	871.2	1132.0	1357.7	1198.6	1516.8	1592.6	2090.2
55°	810.2	869.4	773.2	819.4	708.4	1087.6	1082.1	1368.8	1394.7	1675.8
57.5°	7.4	9.2	22.2	623.4	490.2	543.8	747.3	934.1	980.3	1305.9
60°	1.8	3.7	9.2	18.5	318.1	334.8	499.4	540.1	608.6	778.7
62.5°	0.0	0.0	3.7	9.2	16.6	136.9	159.1	173.9	268.2	397.7
65°	0.0	0.0	1.8	5.5	9.2	22.2	38.8	81.4	116.5	144.3
67.5°	0.0	0.0	1.8	3.7	7.4	11.1	22.2	31.4	49.9	85.1
70°	0.0	0.0	1.8	3.7	5.5	9.2	14.8	22.2	29.6	42.5
72.5°	0.0	0.0	1.8	3.7	3.7	11.1	11.1	16.6	22.2	27.7
75°	0.0	0.0	1.8	1.8	3.7	7.4	11.1	12.9	14.8	22.2
77.5°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	14.8	12.9	12.9
80°	0.0	0.0	1.8	5.5	5.5	9.2	11.1	14.8	9.2	9.2
82.5°	0.0	0.0	1.8	7.4	5.5	18.5	18.5	20.3	7.4	7.4
85°	0.0	0.0	5.5	3.7	11.1	18.5	16.6	11.1	9.2	5.5
87.5°	0.0	0.0	1.8	1.8	3.7	5.5	12.9	11.1	3.7	3.7
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°
5430.7	0°	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7	5430.7
5397.4	2.5°	5471.4	5447.4	5497.3	5491.8	5467.7	5456.6	5443.7	5432.6	5351.2
5401.1	5°	5473.3	5436.3	5497.3	5486.2	5482.5	5464.0	5452.9	5469.6	5395.6
5415.9	7.5°	5473.3	5436.3	5502.9	5506.6	5501.0	5486.2	5484.4	5495.5	5434.4
5441.8	10°	5510.3	5495.5	5551.0	5556.5	5549.1	5545.4	5536.2	5528.8	5464.0
5530.6	12.5°	5588.0	5558.4	5621.3	5637.9	5632.4	5641.6	5619.4	5630.5	5563.9
5621.3	15°	5682.3	5684.2	5732.2	5769.2	5765.5	5795.1	5761.8	5791.4	5743.3
5724.8	17.5°	5826.6	5846.9	5915.4	5970.9	5991.2	6013.4	5991.2	6000.5	5932.0
5610.2	20°	5674.9	5750.7	6080.0	6181.7	6224.3	6244.6	6207.6	6218.7	6150.3
5469.6	22.5°	5538.0	5636.1	5928.3	6246.5	6377.8	6418.5	6405.5	6403.7	6377.8
5192.1	25°	5336.4	5534.3	5665.7	6002.3	6414.8	6488.8	6496.2	6494.3	6455.5
5022.0	27.5°	5088.5	5132.9	5473.3	5678.6	6155.8	6437.0	6425.9	6372.2	6320.4
4668.7	30°	4772.2	4973.9	5127.4	5454.8	5821.0	6277.9	6277.9	6237.2	6183.6
4542.9	32.5°	4611.3	4872.1	5014.6	5132.9	5445.5	6100.3	6174.3	6131.8	6089.2
4444.8	35°	4526.2	4565.1	4898.0	5005.3	5269.8	5758.1	6057.8	6015.2	5983.8
4184.0	37.5°	4339.4	4430.0	4585.4	4872.1	4953.5	5478.8	5902.4	5880.2	5843.2
3845.5	40°	3923.2	4165.5	4404.2	4676.1	4761.1	5120.0	5713.7	5723.0	5673.1
3484.8	42.5°	3677.2	3841.8	4215.5	4398.6	4628.0	4888.8	5530.6	5545.4	5510.3
3301.7	45°	3388.7	3571.8	3834.4	4167.4	4480.0	4570.6	5206.9	5362.3	5332.7
2937.3	47.5°	3124.2	3272.1	3594.0	3930.6	4276.5	4263.6	4835.1	5127.4	5086.7
2658.0	50°	2748.7	3007.6	3159.3	3468.2	3984.3	4019.4	4439.3	4851.8	4818.5
2258.5	52.5°	2317.7	2643.2	2933.6	3216.6	3688.3	3771.6	4071.2	4570.6	4548.4
1725.8	55°	2025.4	2262.2	2589.6	2817.1	3329.5	3551.4	3795.6	4302.4	4291.3
1418.7	57.5°	1440.9	1897.8	2167.9	2486.0	2756.1	3157.5	3338.7	3756.8	3653.2
786.1	60°	976.6	1191.2	1520.5	1862.7	2043.9	2445.3	2613.6	2948.4	2920.7
469.8	62.5°	516.1	714.0	948.9	1120.9	1252.3	1642.5	1712.8	2073.5	2064.3
188.7	65°	227.5	301.5	514.2	603.0	738.0	919.3	980.3	1109.8	1078.4
92.5	67.5°	118.4	179.4	290.4	357.0	449.5	517.9	567.9	608.6	634.4
61.0	70°	72.1	131.3	179.4	247.9	308.9	364.4	403.2	458.7	492.0
31.4	72.5°	53.6	83.2	123.9	190.5	223.8	288.6	327.4	368.1	397.7
25.9	75°	29.6	55.5	99.9	149.8	179.4	234.9	270.1	297.8	307.1
14.8	77.5°	18.5	42.5	83.2	116.5	140.6	190.5	181.3	207.2	229.4
11.1	80°	12.9	31.4	64.7	96.2	98.0	122.1	144.3	166.5	181.3
7.4	82.5°	9.2	25.9	48.1	74.0	64.7	94.3	112.8	129.5	94.3
5.5	85°	7.4	18.5	24.0	44.4	37.0	66.6	57.3	55.5	37.0
3.7	87.5°	5.5	9.2	16.6	20.3	14.8	14.8	18.5	22.2	18.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5430.7
5295.7
5332.7
5364.2
5410.4
5504.7
5663.8
5872.8
6102.2
6294.6
6396.3
6279.8
6163.2
6054.1
5939.4
5806.2
5662.0
5506.6
5336.4
5116.3
4824.0
4563.2
4304.3
3642.1
2922.5
2066.1
1065.4
634.4
493.9
403.2
301.5
233.1
183.1
68.4
37.0
18.5
0.0

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