

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: P638357

Luminaire Tested: **IFLD-L-SA8A-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638357
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21115 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

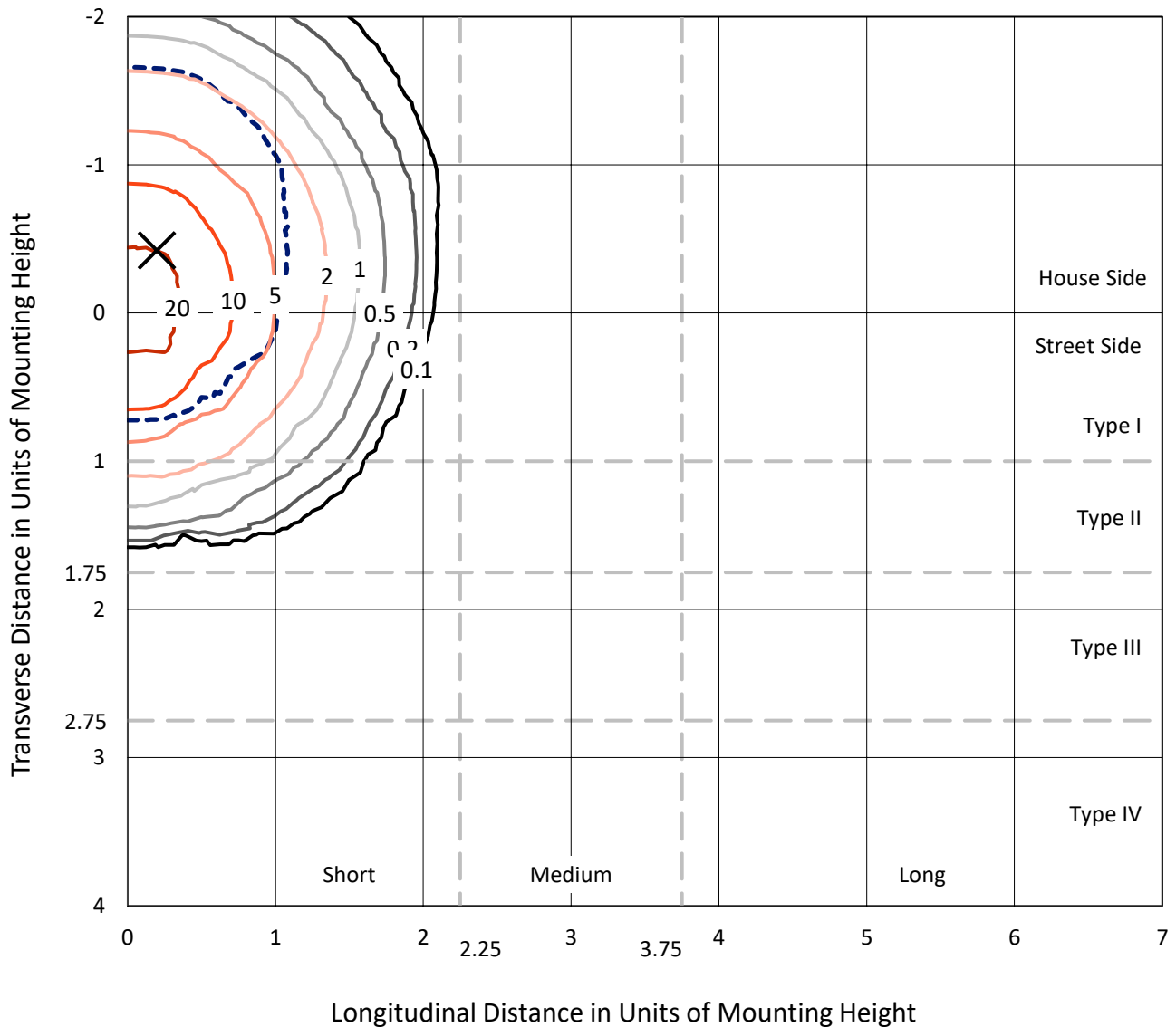
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

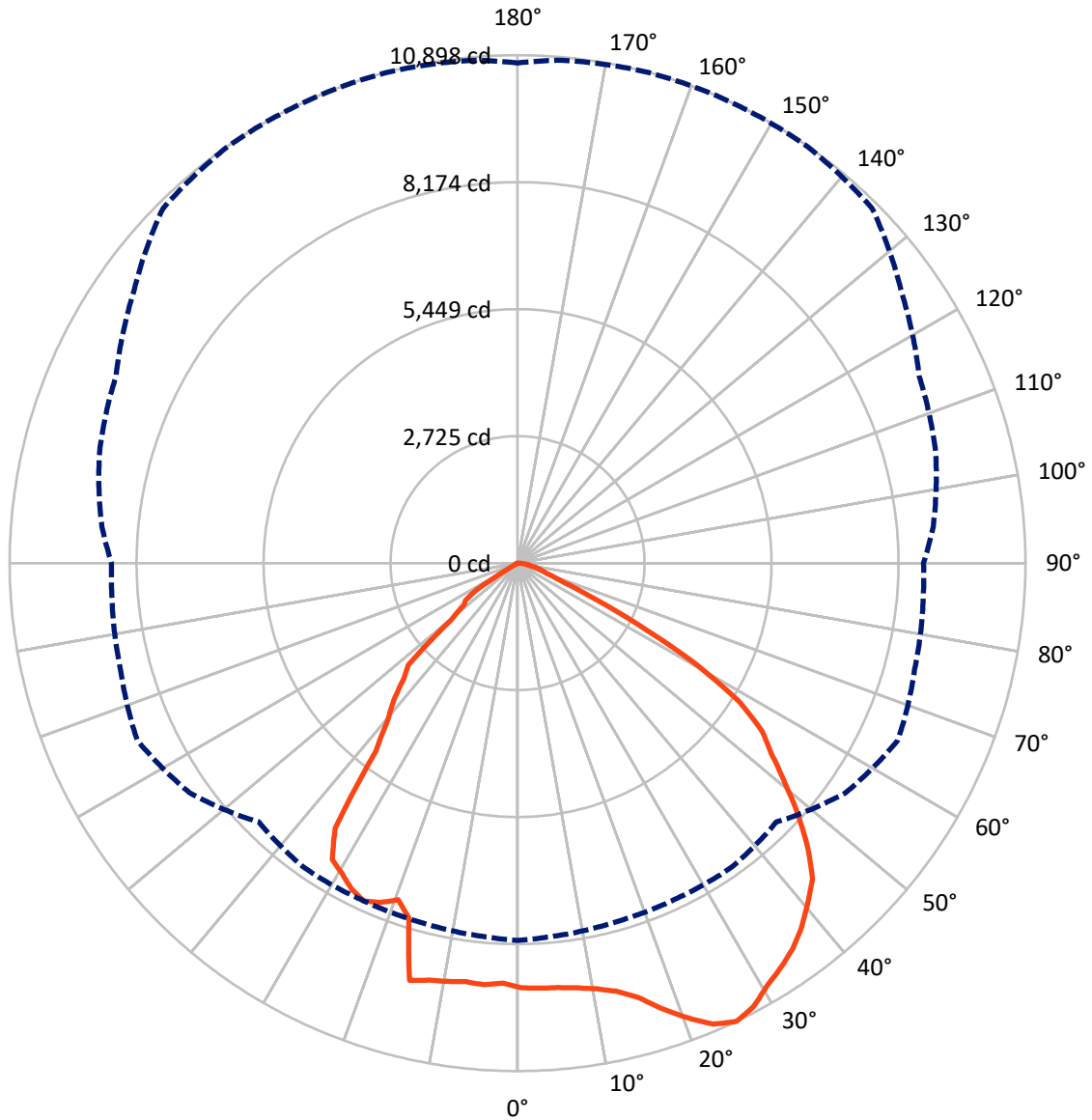
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.8 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	13072.3	0.0	13072.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8042.6	0.0	8042.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	21115.0	0.0	21115.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.1	4.1
10°-20°	2668.9	12.6
20°-30°	4219.4	20.0
30°-40°	4766.1	22.6
40°-50°	4463.6	21.1
50°-60°	3077.3	14.6
60°-70°	826.8	3.9
70°-80°	172.3	0.8
80°-90°	46.6	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°	21115.0	100.0
0°-180°	21115.0	100.0



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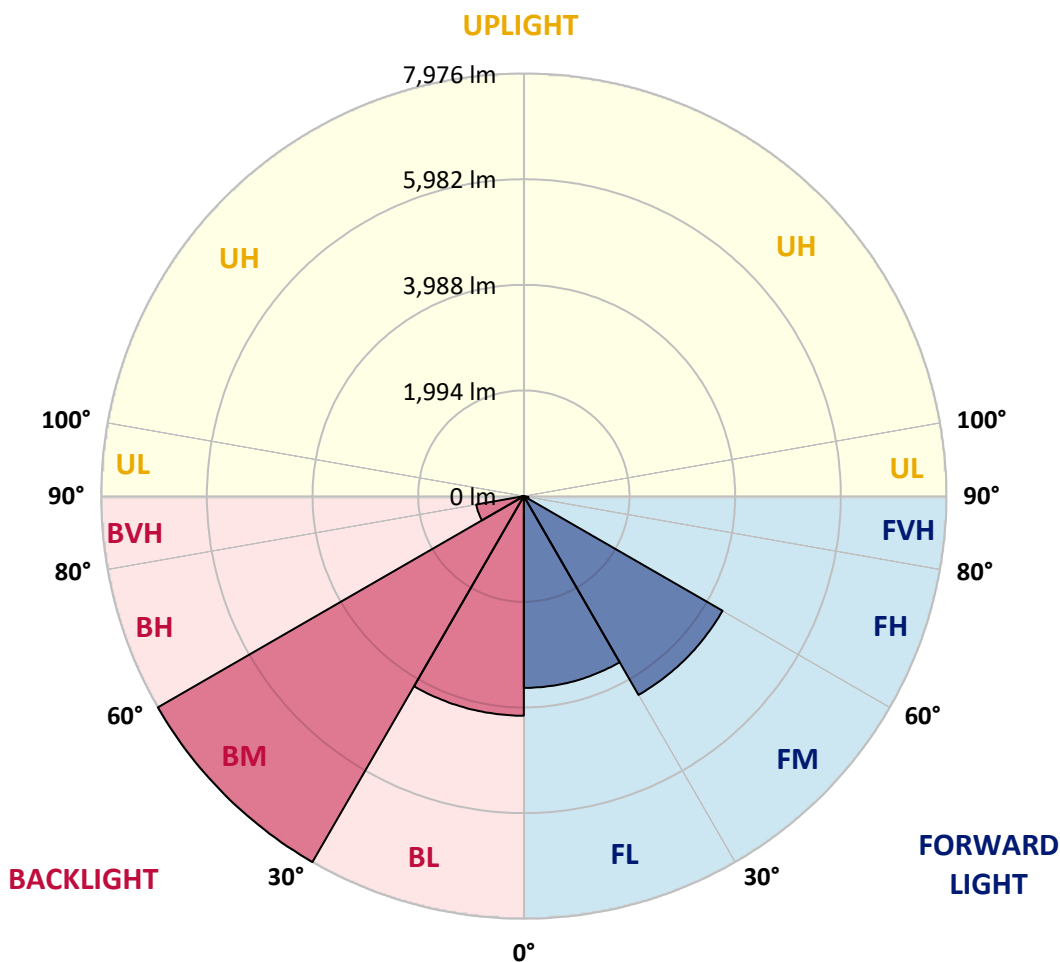
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3618.4	17.1			
FM (30°-60°)	4331.2	20.5			
FH (60°-80°)	86.8	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	4143.9	19.6	B4/5000		
BM (30°-60°)	7975.9	37.8	B4/8500		
BH (60°-80°)	912.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7
2.5°	9151.1	9092.1	9036.3	9017.6	9095.2	9179.0	9126.3	9129.4	9110.7	9144.9
5°	9219.3	9138.7	9101.4	9073.5	9085.9	9172.8	9098.3	9126.3	9095.2	9135.6
7.5°	9194.5	9138.7	9101.4	9048.7	9089.0	9191.4	9120.1	9123.2	9107.6	9144.9
10°	9179.0	9138.7	9092.1	9098.3	9144.9	9231.8	9175.9	9206.9	9185.2	9206.9
12.5°	9216.2	9172.8	9148.0	9148.0	9188.3	9287.6	9259.7	9287.6	9278.3	9296.9
15°	8865.6	8905.9	9141.8	9247.3	9328.0	9427.3	9414.8	9442.8	9449.0	9476.9
17.5°	7478.5	7438.2	7419.5	7962.6	9405.5	9712.7	9703.4	9700.3	9669.3	9647.6
20°	7661.6	7646.1	7624.3	7664.7	7826.1	9861.7	9923.8	9542.1	9430.4	9421.1
22.5°	7953.3	7928.5	7847.8	7850.9	7900.5	8573.9	9616.5	9269.0	9231.8	9210.0
25°	8096.0	8046.4	7981.2	7962.6	7978.1	7854.0	8589.4	9002.1	8819.0	8735.3
27.5°	7844.7	7847.8	7795.0	7844.7	7785.7	7227.2	6913.7	8480.8	8474.6	8437.4
30°	7655.4	7646.1	7584.0	7646.1	7239.6	6615.8	6482.4	7909.8	7844.7	7795.0
32.5°	7075.1	7081.3	7261.3	7503.3	6836.2	6342.8	5939.4	7065.8	7683.3	7655.4
35°	5061.2	5073.6	5712.8	6907.5	6224.8	5799.7	5768.7	6106.9	7428.9	7441.3
37.5°	4871.9	4871.9	4856.4	5051.9	5743.9	5579.4	5641.5	5607.3	6805.1	6836.2
40°	4735.4	4707.4	4685.7	4378.5	3993.7	5424.2	5467.7	5312.5	6432.8	6439.0
42.5°	4570.9	4539.9	4546.1	3978.2	3574.8	5039.5	4918.4	4710.5	5812.1	5818.3
45°	4269.9	4322.6	4359.9	3481.7	3450.7	3599.6	4536.8	4406.4	5393.2	5508.0
47.5°	2172.2	2218.7	3404.1	3202.4	3273.8	3199.3	3832.3	3835.4	4487.1	4868.8
50°	1970.5	1958.1	1961.2	1868.1	3022.4	2588.0	2771.1	3515.8	3593.4	4139.6
52.5°	1837.0	1833.9	1644.7	1461.6	1899.1	2277.7	2010.8	2544.6	2671.8	3506.5
55°	1359.2	1458.5	1297.1	1374.7	1188.5	1824.6	1815.3	2296.3	2339.7	2811.4
57.5°	12.4	15.5	37.2	1045.7	822.3	912.3	1253.7	1567.1	1644.7	2190.8
60°	3.1	6.2	15.5	31.0	533.7	561.7	837.8	906.1	1020.9	1306.4
62.5°	0.0	0.0	6.2	15.5	27.9	229.6	266.9	291.7	450.0	667.2
65°	0.0	0.0	3.1	9.3	15.5	37.2	65.2	136.5	195.5	242.0
67.5°	0.0	0.0	3.1	6.2	12.4	18.6	37.2	52.8	83.8	142.7
70°	0.0	0.0	3.1	6.2	9.3	15.5	24.8	37.2	49.6	71.4
72.5°	0.0	0.0	3.1	6.2	6.2	18.6	18.6	27.9	37.2	46.5
75°	0.0	0.0	3.1	3.1	6.2	12.4	18.6	21.7	24.8	37.2
77.5°	0.0	0.0	3.1	6.2	9.3	12.4	15.5	24.8	21.7	21.7
80°	0.0	0.0	3.1	9.3	9.3	15.5	18.6	24.8	15.5	15.5
82.5°	0.0	0.0	3.1	12.4	9.3	31.0	31.0	34.1	12.4	12.4
85°	0.0	0.0	9.3	6.2	18.6	31.0	27.9	18.6	15.5	9.3
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	21.7	18.6	6.2	6.2
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°
9110.7	0°	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7	9110.7
9054.9	2.5°	9179.0	9138.7	9222.5	9213.1	9172.8	9154.2	9132.5	9113.8	8977.3
9061.1	5°	9182.1	9120.1	9222.5	9203.8	9197.6	9166.6	9148.0	9175.9	9051.8
9085.9	7.5°	9182.1	9120.1	9231.8	9238.0	9228.7	9203.8	9200.7	9219.3	9116.9
9129.4	10°	9244.2	9219.3	9312.4	9321.8	9309.3	9303.1	9287.6	9275.2	9166.6
9278.3	12.5°	9374.5	9324.9	9430.4	9458.3	9449.0	9464.5	9427.3	9445.9	9334.2
9430.4	15°	9532.8	9535.9	9616.5	9678.6	9672.4	9722.1	9666.2	9715.8	9635.2
9604.1	17.5°	9774.8	9808.9	9923.8	10016.8	10051.0	10088.2	10051.0	10066.5	9951.7
9411.7	20°	9520.4	9647.6	10199.9	10370.6	10442.0	10476.1	10414.0	10432.7	10317.9
9175.9	22.5°	9290.7	9455.2	9945.5	10479.2	10699.5	10767.8	10746.1	10743.0	10699.5
8710.4	25°	8952.5	9284.5	9504.8	10069.6	10761.6	10885.7	10898.1	10895.0	10829.9
8425.0	27.5°	8536.7	8611.1	9182.1	9526.6	10327.2	10798.8	10780.2	10690.2	10603.3
7832.3	30°	8006.0	8344.3	8601.8	9151.1	9765.5	10532.0	10532.0	10463.7	10373.7
7621.2	32.5°	7736.1	8173.6	8412.5	8611.1	9135.6	10234.1	10358.2	10286.8	10215.4
7456.8	35°	7593.3	7658.5	8217.0	8397.0	8840.8	9660.0	10162.7	10091.3	10038.6
7019.2	37.5°	7279.9	7432.0	7692.6	8173.6	8310.1	9191.4	9902.0	9864.8	9802.7
6451.4	40°	6581.7	6988.2	7388.5	7844.7	7987.4	8589.4	9585.5	9601.0	9517.2
5846.3	42.5°	6169.0	6445.2	7072.0	7379.2	7764.0	8201.5	9278.3	9303.1	9244.2
5539.1	45°	5684.9	5992.1	6432.8	6991.3	7515.7	7667.8	8735.3	8995.9	8946.3
4927.7	47.5°	5241.2	5489.4	6029.3	6594.1	7174.4	7152.7	8111.5	8601.8	8533.6
4459.2	50°	4611.2	5045.7	5300.1	5818.3	6684.1	6743.1	7447.5	8139.5	8083.6
3788.9	52.5°	3888.2	4434.3	4921.5	5396.3	6187.6	6327.2	6830.0	7667.8	7630.6
2895.2	55°	3397.9	3795.1	4344.4	4726.0	5585.6	5958.0	6367.6	7217.8	7199.2
2380.1	57.5°	2417.3	3183.8	3636.8	4170.6	4623.6	5297.0	5601.1	6302.4	6128.6
1318.8	60°	1638.4	1998.4	2550.8	3124.8	3428.9	4102.3	4384.7	4946.4	4899.8
788.2	62.5°	865.8	1197.8	1591.9	1880.5	2100.8	2755.6	2873.5	3478.6	3463.1
316.5	65°	381.7	505.8	862.7	1011.6	1238.1	1542.2	1644.7	1861.9	1809.1
155.2	67.5°	198.6	301.0	487.2	598.9	754.1	868.9	952.7	1020.9	1064.4
102.4	70°	121.0	220.3	301.0	415.8	518.2	611.3	676.5	769.6	825.4
52.8	72.5°	90.0	139.6	207.9	319.6	375.5	484.1	549.3	617.5	667.2
43.4	75°	49.6	93.1	167.6	251.4	301.0	394.1	453.1	499.6	515.1
24.8	77.5°	31.0	71.4	139.6	195.5	235.8	319.6	304.1	347.5	384.8
18.6	80°	21.7	52.8	108.6	161.4	164.5	204.8	242.0	279.3	304.1
12.4	82.5°	15.5	43.4	80.7	124.1	108.6	158.3	189.3	217.2	158.3
9.3	85°	12.4	31.0	40.3	74.5	62.1	111.7	96.2	93.1	62.1
6.2	87.5°	9.3	15.5	27.9	34.1	24.8	24.8	31.0	37.2	31.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9110.7
8884.2
8946.3
8999.0
9076.6
9234.9
9501.7
9852.4
10237.2
10559.9
10730.6
10535.1
10339.6
10156.5
9964.1
9740.7
9498.6
9238.0
8952.5
8583.2
8092.9
7655.4
7220.9
6110.0
4902.9
3466.2
1787.4
1064.4
828.5
676.5
505.8
391.0
307.2
114.8
62.1
31.0
0.0

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