

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: P638410

Luminaire Tested: **IFLD-L-SA7A-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22753.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

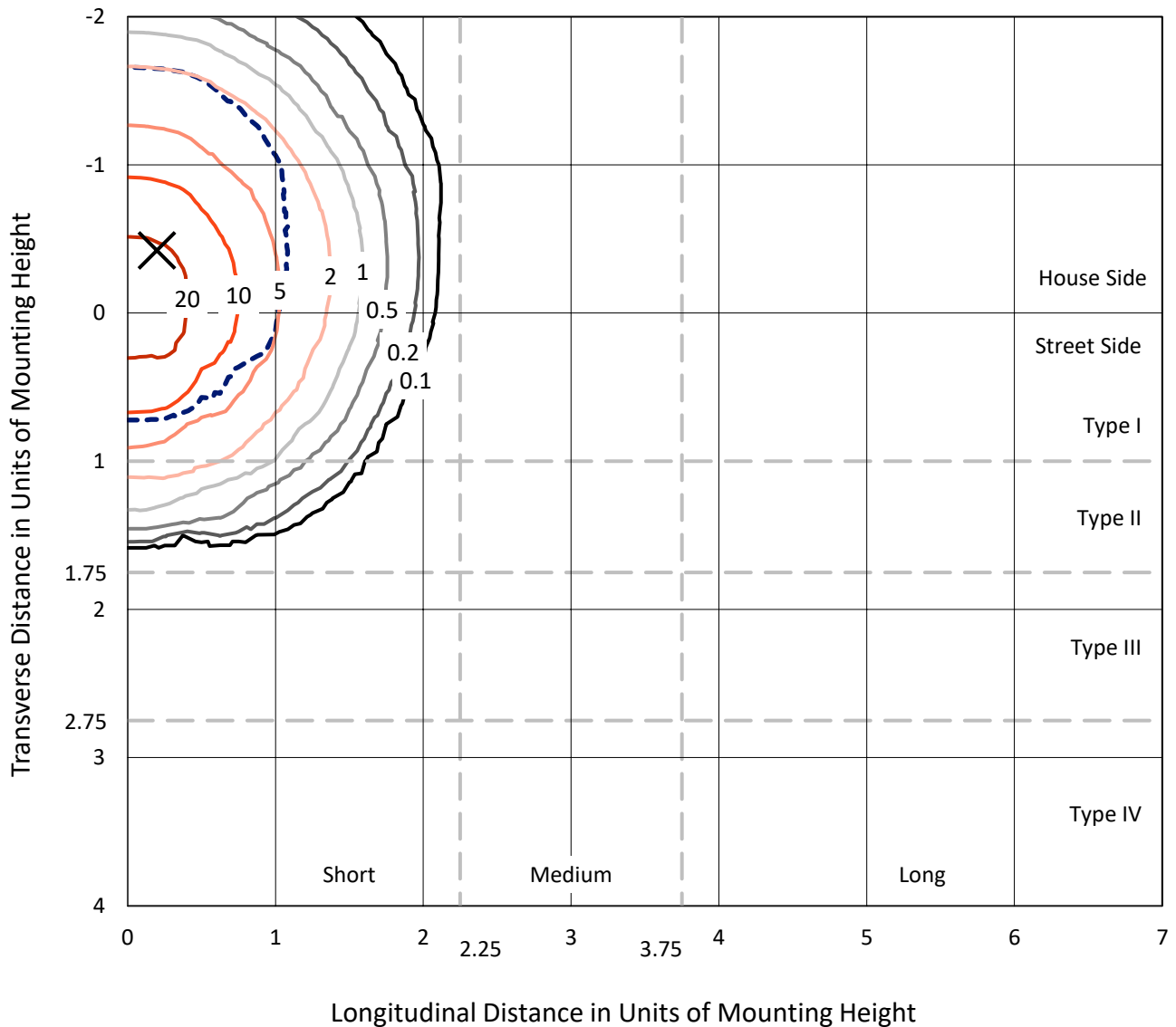
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

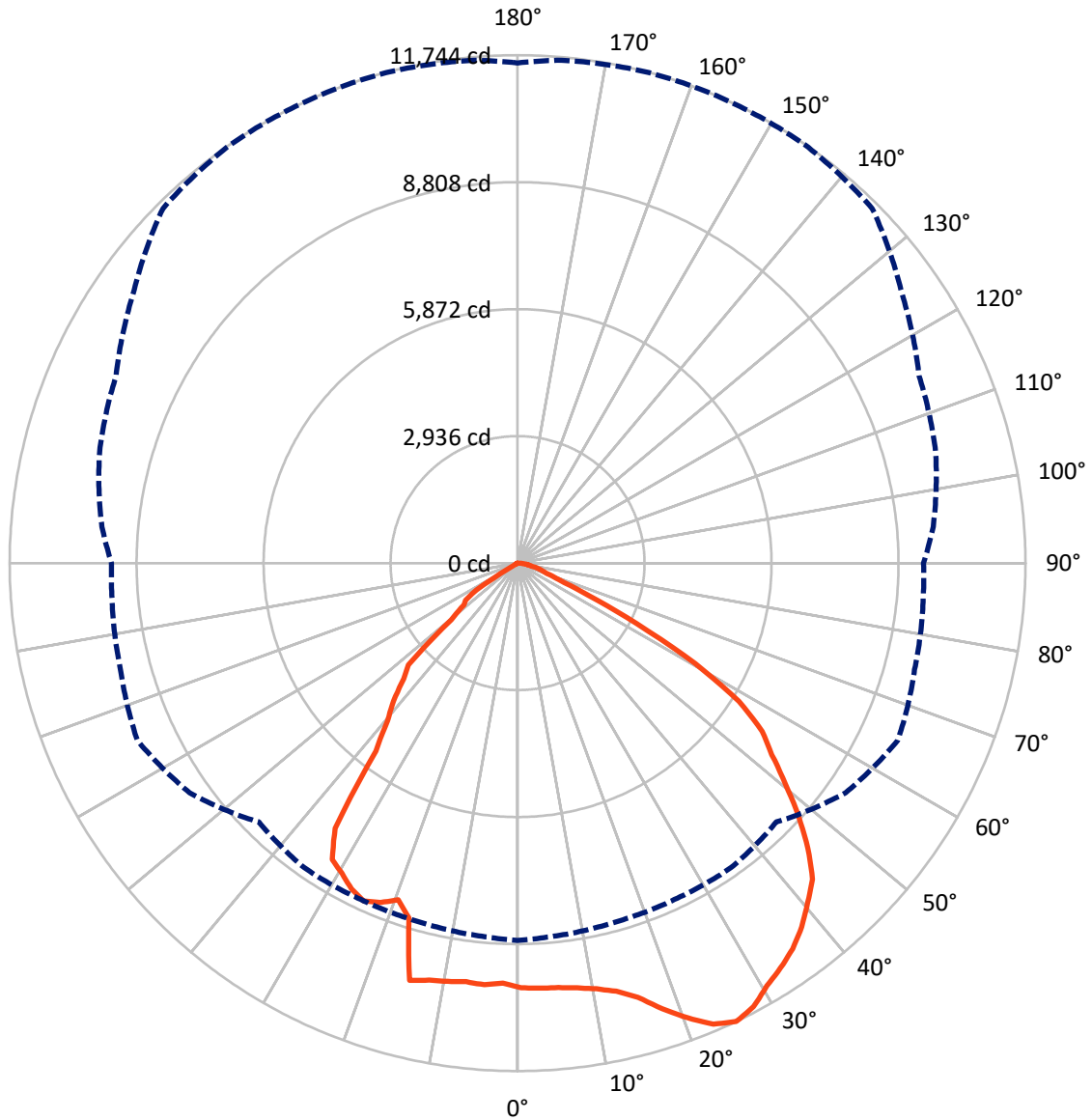
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.5 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	14086.8	0.0	14086.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8666.8	0.0	8666.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	22753.6	0.0	22753.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.9	4.1
10°-20°	2876.0	12.6
20°-30°	4546.8	20.0
30°-40°	5136.0	22.6
40°-50°	4810.0	21.1
50°-60°	3316.1	14.6
60°-70°	890.9	3.9
70°-80°	185.7	0.8
80°-90°	50.2	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°	22753.6	100.0
0°-180°	22753.6	100.0



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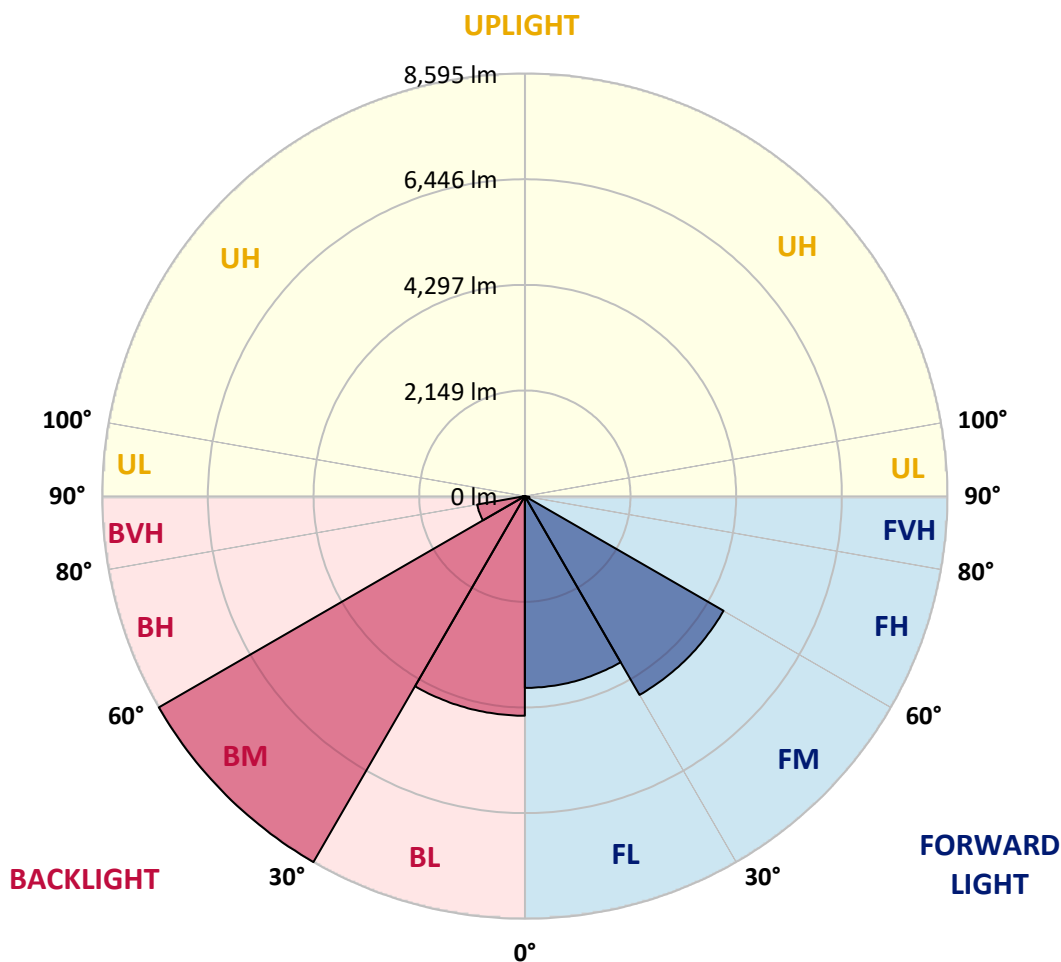
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3899.2	17.1			
FM (30°-60°)	4667.3	20.5			
FH (60°-80°)	93.5	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	4465.4	19.6	B4/5000		
BM (30°-60°)	8594.8	37.8	B5		
BH (60°-80°)	983.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	43.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8
2.5°	9861.2	9797.7	9737.5	9717.4	9801.0	9891.3	9834.5	9837.8	9817.8	9854.5
5°	9934.8	9847.9	9807.7	9777.6	9791.0	9884.6	9804.4	9834.5	9801.0	9844.5
7.5°	9908.0	9847.9	9807.7	9750.9	9794.4	9904.7	9827.8	9831.1	9814.4	9854.5
10°	9891.3	9847.9	9797.7	9804.4	9854.5	9948.2	9888.0	9921.4	9898.0	9921.4
12.5°	9931.5	9884.6	9857.9	9857.9	9901.4	10008.4	9978.3	10008.4	9998.3	10018.4
15°	9553.6	9597.1	9851.2	9964.9	10051.8	10158.8	10145.5	10175.6	10182.3	10212.3
17.5°	8058.9	8015.4	7995.3	8580.5	10135.4	10466.5	10456.5	10453.1	10419.7	10396.3
20°	8256.2	8239.4	8216.0	8259.5	8433.4	10627.0	10693.9	10282.6	10162.2	10152.2
22.5°	8570.5	8543.7	8456.8	8460.1	8513.6	9239.3	10362.8	9988.3	9948.2	9924.8
25°	8724.3	8670.8	8600.6	8580.5	8597.2	8463.5	9256.0	9700.7	9503.4	9413.1
27.5°	8453.4	8456.8	8399.9	8453.4	8389.9	7788.0	7450.3	9138.9	9132.3	9092.1
30°	8249.5	8239.4	8172.6	8239.4	7801.4	7129.2	6985.5	8523.7	8453.4	8399.9
32.5°	7624.1	7630.8	7824.8	8085.6	7366.7	6835.0	6400.3	7614.1	8279.6	8249.5
35°	5453.9	5467.3	6156.2	7443.6	6707.9	6249.8	6216.4	6580.8	8005.4	8018.7
37.5°	5250.0	5250.0	5233.2	5443.9	6189.6	6012.4	6079.3	6042.5	7333.2	7366.7
40°	5102.8	5072.7	5049.3	4718.3	4303.6	5845.2	5892.0	5724.8	6932.0	6938.6
42.5°	4925.6	4892.2	4898.8	4286.9	3852.2	5430.5	5300.1	5076.1	6263.2	6269.9
45°	4601.2	4658.1	4698.2	3751.9	3718.4	3879.0	4888.8	4748.4	5811.7	5935.5
47.5°	2340.7	2390.9	3668.3	3450.9	3527.8	3447.6	4129.7	4133.1	4835.3	5246.6
50°	2123.4	2110.0	2113.4	2013.0	3257.0	2788.8	2986.1	3788.7	3872.3	4460.8
52.5°	1979.6	1976.3	1772.3	1575.0	2046.5	2454.4	2166.9	2742.0	2879.1	3778.6
55°	1464.6	1571.6	1397.8	1481.4	1280.7	1966.2	1956.2	2474.5	2521.3	3029.6
57.5°	13.4	16.7	40.1	1126.9	886.1	983.1	1350.9	1688.7	1772.3	2360.8
60°	3.3	6.7	16.7	33.4	575.2	605.3	902.9	976.4	1100.2	1407.8
62.5°	0.0	0.0	6.7	16.7	30.1	247.5	287.6	314.3	484.9	718.9
65°	0.0	0.0	3.3	10.0	16.7	40.1	70.2	147.1	210.7	260.8
67.5°	0.0	0.0	3.3	6.7	13.4	20.1	40.1	56.8	90.3	153.8
70°	0.0	0.0	3.3	6.7	10.0	16.7	26.8	40.1	53.5	76.9
72.5°	0.0	0.0	3.3	6.7	6.7	20.1	20.1	30.1	40.1	50.2
75°	0.0	0.0	3.3	3.3	6.7	13.4	20.1	23.4	26.8	40.1
77.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	26.8	23.4	23.4
80°	0.0	0.0	3.3	10.0	10.0	16.7	20.1	26.8	16.7	16.7
82.5°	0.0	0.0	3.3	13.4	10.0	33.4	33.4	36.8	13.4	13.4
85°	0.0	0.0	10.0	6.7	20.1	33.4	30.1	20.1	16.7	10.0
87.5°	0.0	0.0	3.3	3.3	6.7	10.0	23.4	20.1	6.7	6.7
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°
9817.8	0°	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8	9817.8
9757.6	2.5°	9891.3	9847.9	9938.1	9928.1	9884.6	9864.6	9841.2	9821.1	9674.0
9764.3	5°	9894.7	9827.8	9938.1	9918.1	9911.4	9878.0	9857.9	9888.0	9754.2
9791.0	7.5°	9894.7	9827.8	9948.2	9954.9	9944.8	9918.1	9914.7	9934.8	9824.5
9837.8	10°	9961.6	9934.8	10035.1	10045.1	10031.8	10025.1	10008.4	9995.0	9878.0
9998.3	12.5°	10102.0	10048.5	10162.2	10192.3	10182.3	10199.0	10158.8	10178.9	10058.5
10162.2	15°	10272.5	10275.9	10362.8	10429.7	10423.0	10476.5	10416.3	10469.8	10382.9
10349.4	17.5°	10533.4	10570.1	10693.9	10794.2	10831.0	10871.1	10831.0	10847.7	10724.0
10142.1	20°	10259.2	10396.3	10991.5	11175.4	11252.3	11289.1	11222.2	11242.3	11118.5
9888.0	22.5°	10011.7	10188.9	10717.3	11292.4	11529.9	11603.4	11580.0	11576.7	11529.9
9386.4	25°	9647.2	10005.0	10242.4	10851.0	11596.7	11730.5	11743.9	11740.5	11670.3
9078.8	27.5°	9199.1	9279.4	9894.7	10265.8	11128.6	11636.9	11616.8	11519.8	11426.2
8440.1	30°	8627.3	8991.8	9269.4	9861.2	10523.3	11349.3	11349.3	11275.7	11178.7
8212.7	32.5°	8336.4	8807.9	9065.4	9279.4	9844.5	11028.3	11162.0	11085.1	11008.2
8035.5	35°	8182.6	8252.8	8854.7	9048.7	9526.8	10409.6	10951.4	10874.4	10817.6
7564.0	37.5°	7844.8	8008.7	8289.6	8807.9	8955.0	9904.7	10670.5	10630.3	10563.5
6952.0	40°	7092.5	7530.5	7961.9	8453.4	8607.3	9256.0	10329.4	10346.1	10255.8
6300.0	42.5°	6647.7	6945.3	7620.8	7951.9	8366.5	8838.0	9998.3	10025.1	9961.6
5968.9	45°	6126.1	6457.1	6932.0	7533.9	8099.0	8262.8	9413.1	9694.0	9640.5
5310.2	47.5°	5647.9	5915.4	6497.2	7105.8	7731.2	7707.7	8741.0	9269.4	9195.8
4805.2	50°	4969.1	5437.2	5711.4	6269.9	7202.8	7266.3	8025.4	8771.1	8710.9
4082.9	52.5°	4189.9	4778.5	5303.5	5815.1	6667.8	6818.3	7360.0	8262.8	8222.7
3119.9	55°	3661.6	4089.6	4681.5	5092.8	6019.1	6420.3	6861.7	7778.0	7757.9
2564.8	57.5°	2604.9	3430.9	3919.1	4494.2	4982.4	5708.1	6035.8	6791.5	6604.3
1421.2	60°	1765.6	2153.5	2748.7	3367.3	3695.0	4420.7	4725.0	5330.2	5280.1
849.4	62.5°	933.0	1290.8	1715.4	2026.4	2263.8	2969.4	3096.5	3748.5	3731.8
341.1	65°	411.3	545.1	929.6	1090.1	1334.2	1661.9	1772.3	2006.4	1949.5
167.2	67.5°	214.0	324.4	525.0	645.4	812.6	936.3	1026.6	1100.2	1147.0
110.3	70°	130.4	237.4	324.4	448.1	558.4	658.8	729.0	829.3	889.5
56.8	72.5°	97.0	150.5	224.0	344.4	404.6	521.7	591.9	665.4	718.9
46.8	75°	53.5	100.3	180.6	270.9	324.4	424.7	488.2	538.4	555.1
26.8	77.5°	33.4	76.9	150.5	210.7	254.1	344.4	327.7	374.5	414.6
20.1	80°	23.4	56.8	117.0	173.9	177.2	220.7	260.8	301.0	327.7
13.4	82.5°	16.7	46.8	86.9	133.8	117.0	170.5	204.0	234.1	170.5
10.0	85°	13.4	33.4	43.5	80.3	66.9	120.4	103.7	100.3	66.9
6.7	87.5°	10.0	16.7	30.1	36.8	26.8	26.8	33.4	40.1	33.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9817.8
9573.7
9640.5
9697.4
9781.0
9951.5
10239.1
10617.0
11031.6
11379.4
11563.3
11352.6
11142.0
10944.7
10737.3
10496.6
10235.8
9954.9
9647.2
9249.3
8721.0
8249.5
7781.3
6584.2
5283.4
3735.2
1926.1
1147.0
892.8
729.0
545.1
421.3
331.0
123.7
66.9
33.4
0.0

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