

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: P638439

Luminaire Tested: **IFLD-L-SA7A-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638439
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23069.6 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

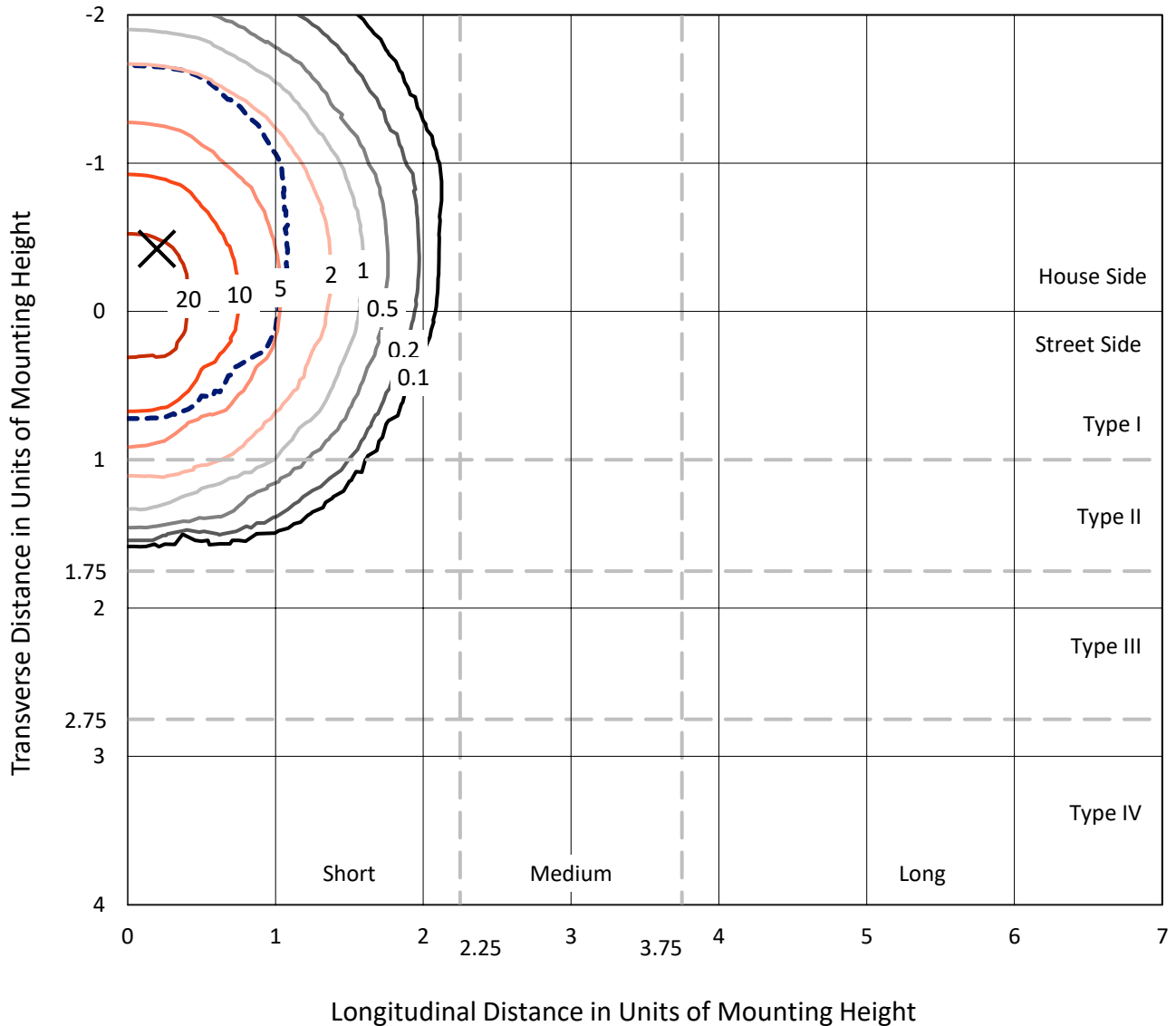
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

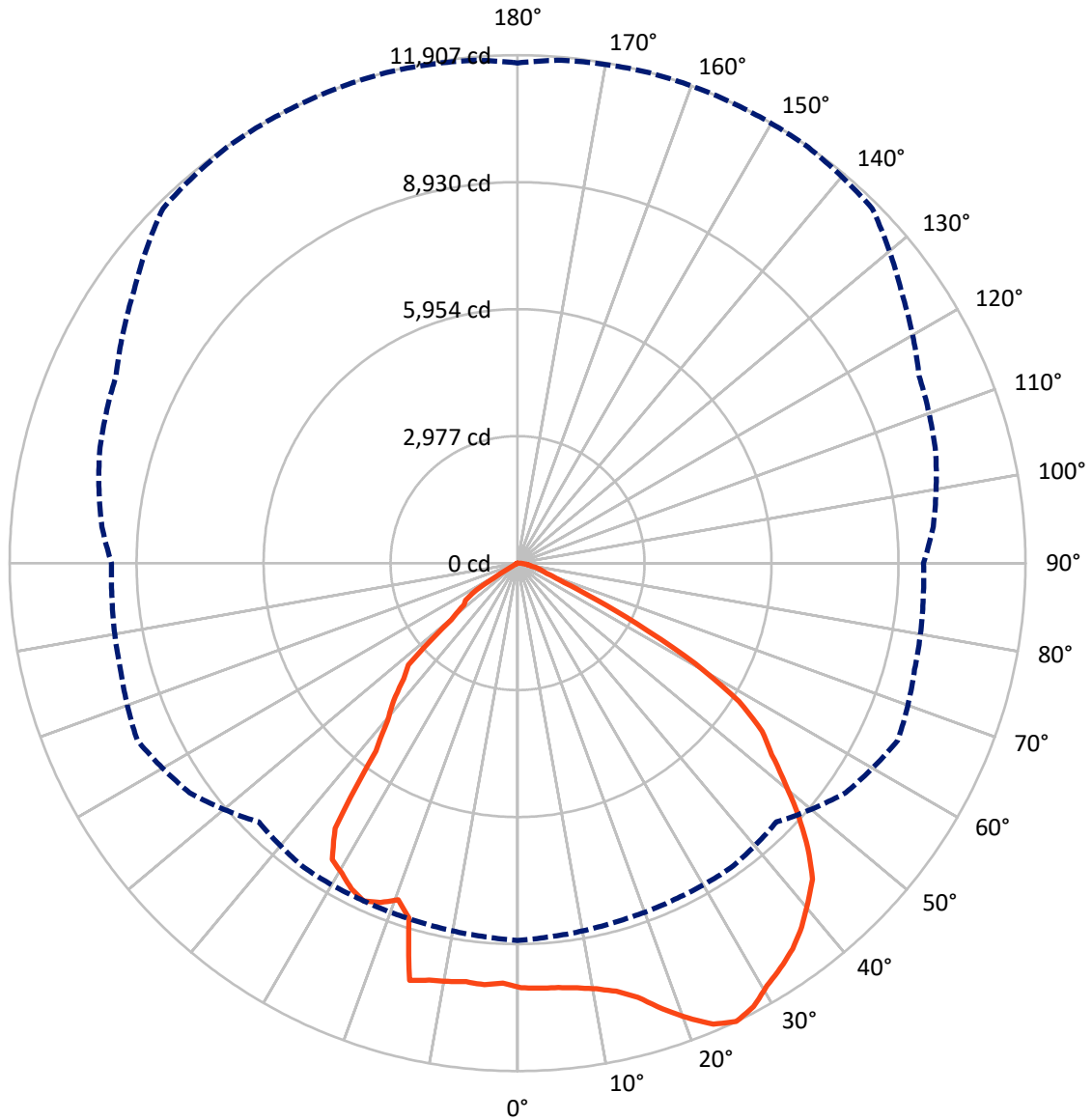
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.9 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	14282.5	0.0	14282.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8787.2	0.0	8787.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	23069.6	0.0	23069.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.0	4.1
10°-20°	2915.9	12.6
20°-30°	4609.9	20.0
30°-40°	5207.3	22.6
40°-50°	4876.8	21.1
50°-60°	3362.2	14.6
60°-70°	903.3	3.9
70°-80°	188.2	0.8
80°-90°	50.9	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°	23069.6	100.0
0°-180°	23069.6	100.0



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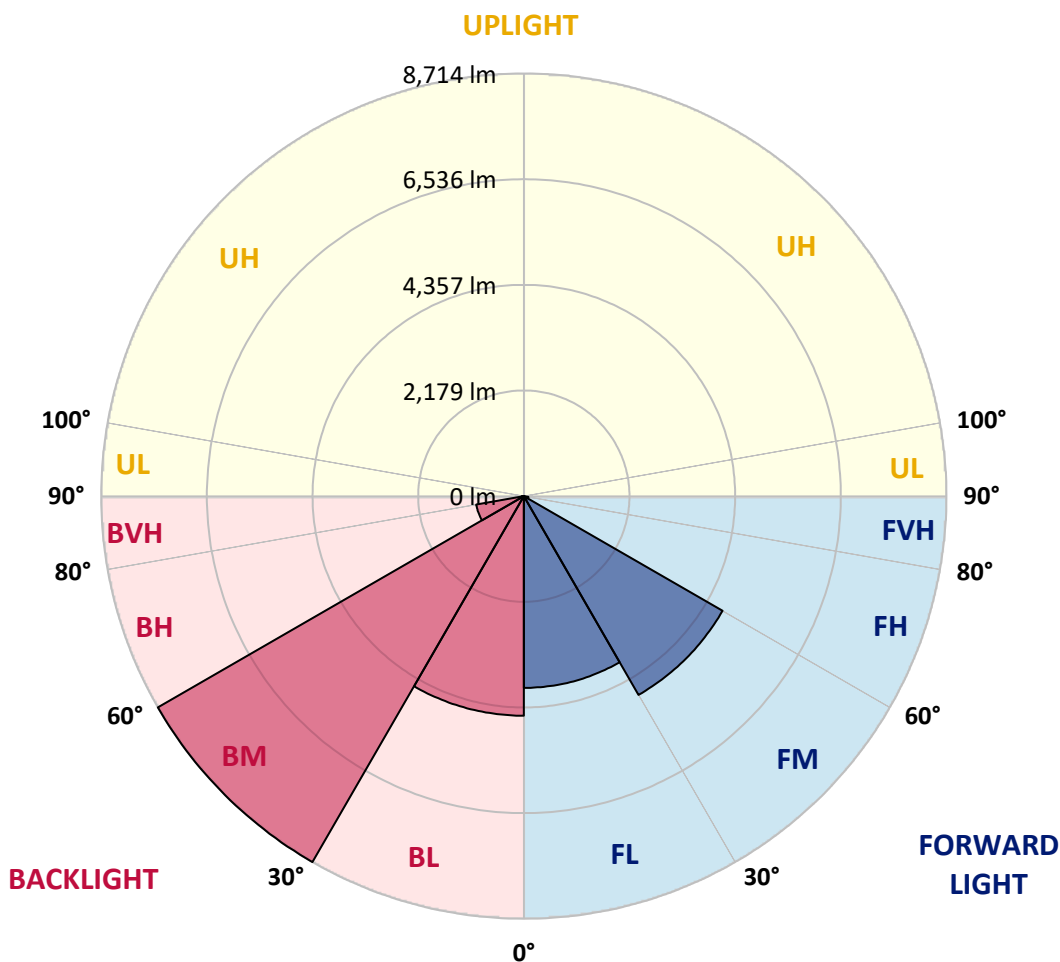
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3953.4	17.1			
FM (30°-60°)	4732.1	20.5			
FH (60°-80°)	94.8	0.4			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	4527.5	19.6	B4/5000		
BM (30°-60°)	8714.2	37.8	B5		
BH (60°-80°)	996.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	44.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1
2.5°	9998.2	9933.8	9872.8	9852.4	9937.2	10028.7	9971.1	9974.5	9954.1	9991.4
5°	10072.8	9984.6	9944.0	9913.5	9927.0	10021.9	9940.6	9971.1	9937.2	9981.3
7.5°	10045.7	9984.6	9944.0	9886.3	9930.4	10042.3	9964.3	9967.7	9950.7	9991.4
10°	10028.7	9984.6	9933.8	9940.6	9991.4	10086.4	10025.3	10059.2	10035.5	10059.2
12.5°	10069.4	10021.9	9994.8	9994.8	10038.9	10147.4	10116.9	10147.4	10137.2	10157.6
15°	9686.3	9730.4	9988.0	10103.3	10191.5	10300.0	10286.4	10316.9	10323.7	10354.2
17.5°	8170.8	8126.7	8106.4	8699.7	10276.2	10611.9	10601.7	10598.3	10564.4	10540.7
20°	8370.8	8353.9	8330.1	8374.2	8550.5	10774.6	10842.4	10425.4	10303.3	10293.2
22.5°	8689.5	8662.4	8574.3	8577.6	8631.9	9367.6	10506.8	10127.0	10086.4	10062.6
25°	8845.5	8791.2	8720.0	8699.7	8716.6	8581.0	9384.6	9835.5	9635.4	9543.9
27.5°	8570.9	8574.3	8516.6	8570.9	8506.4	7896.2	7553.8	9265.9	9259.1	9218.4
30°	8364.0	8353.9	8286.1	8353.9	7909.7	7228.3	7082.5	8642.1	8570.9	8516.6
32.5°	7730.1	7736.8	7933.5	8197.9	7469.0	6929.9	6489.2	7719.9	8394.6	8364.0
35°	5529.7	5543.3	6241.7	7547.0	6801.1	6336.6	6302.7	6672.3	8116.6	8130.1
37.5°	5322.9	5322.9	5305.9	5519.5	6275.6	6095.9	6163.7	6126.4	7435.1	7469.0
40°	5173.7	5143.2	5119.5	4783.8	4363.4	5926.4	5973.8	5804.3	7028.2	7035.0
42.5°	4994.0	4960.1	4966.9	4346.5	3905.7	5506.0	5373.7	5146.6	6350.2	6356.9
45°	4665.2	4722.8	4763.5	3804.0	3770.1	3932.8	4956.7	4814.3	5892.5	6017.9
47.5°	2373.3	2424.1	3719.2	3498.9	3576.8	3495.5	4187.1	4190.5	4902.5	5319.5
50°	2152.9	2139.3	2142.7	2041.0	3302.2	2827.6	3027.6	3841.3	3926.1	4522.8
52.5°	2007.1	2003.7	1796.9	1596.9	2074.9	2488.5	2197.0	2780.1	2919.1	3831.1
55°	1485.0	1593.5	1417.2	1501.9	1298.5	1993.5	1983.4	2508.9	2556.3	3071.7
57.5°	13.6	17.0	40.7	1142.6	898.4	996.8	1369.7	1712.1	1796.9	2393.6
60°	3.4	6.8	17.0	33.9	583.1	613.7	915.4	990.0	1115.4	1427.3
62.5°	0.0	0.0	6.8	17.0	30.5	250.9	291.6	318.7	491.6	728.9
65°	0.0	0.0	3.4	10.2	17.0	40.7	71.2	149.2	213.6	264.4
67.5°	0.0	0.0	3.4	6.8	13.6	20.3	40.7	57.6	91.5	156.0
70°	0.0	0.0	3.4	6.8	10.2	17.0	27.1	40.7	54.2	78.0
72.5°	0.0	0.0	3.4	6.8	6.8	20.3	20.3	30.5	40.7	50.9
75°	0.0	0.0	3.4	3.4	6.8	13.6	20.3	23.7	27.1	40.7
77.5°	0.0	0.0	3.4	6.8	10.2	13.6	17.0	27.1	23.7	23.7
80°	0.0	0.0	3.4	10.2	10.2	17.0	20.3	27.1	17.0	17.0
82.5°	0.0	0.0	3.4	13.6	10.2	33.9	33.9	37.3	13.6	13.6
85°	0.0	0.0	10.2	6.8	20.3	33.9	30.5	20.3	17.0	10.2
87.5°	0.0	0.0	3.4	3.4	6.8	10.2	23.7	20.3	6.8	6.8
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°
9954.1	0°	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1	9954.1
9893.1	2.5°	10028.7	9984.6	10076.2	10066.0	10021.9	10001.6	9977.9	9957.5	9808.3
9899.9	5°	10032.1	9964.3	10076.2	10055.8	10049.1	10015.2	9994.8	10025.3	9889.7
9927.0	7.5°	10032.1	9964.3	10086.4	10093.1	10083.0	10055.8	10052.5	10072.8	9960.9
9974.5	10°	10099.9	10072.8	10174.5	10184.7	10171.1	10164.3	10147.4	10133.8	10015.2
10137.2	12.5°	10242.3	10188.1	10303.3	10333.9	10323.7	10340.6	10300.0	10320.3	10198.2
10303.3	15°	10415.2	10418.6	10506.8	10574.6	10567.8	10622.0	10561.0	10615.3	10527.1
10493.2	17.5°	10679.7	10717.0	10842.4	10944.1	10981.4	11022.1	10981.4	10998.4	10872.9
10283.0	20°	10401.7	10540.7	11144.2	11330.6	11408.6	11445.9	11378.1	11398.4	11273.0
10025.3	22.5°	10150.8	10330.5	10866.1	11449.3	11690.0	11764.6	11740.9	11737.5	11690.0
9516.8	25°	9781.2	10144.0	10384.7	11001.8	11757.8	11893.4	11907.0	11903.6	11832.4
9204.9	27.5°	9326.9	9408.3	10032.1	10408.4	11283.2	11798.5	11778.2	11679.8	11584.9
8557.3	30°	8747.2	9116.7	9398.1	9998.2	10669.5	11506.9	11506.9	11432.3	11334.0
8326.8	32.5°	8452.2	8930.2	9191.3	9408.3	9981.3	11181.4	11317.1	11239.1	11161.1
8147.1	35°	8296.2	8367.4	8977.7	9174.3	9659.2	10554.2	11103.5	11025.5	10967.9
7669.0	37.5°	7953.8	8119.9	8404.7	8930.2	9079.4	10042.3	10818.7	10778.0	10710.2
7048.6	40°	7191.0	7635.1	8072.5	8570.9	8726.8	9384.6	10472.9	10489.8	10398.3
6387.5	42.5°	6740.1	7041.8	7726.7	8062.3	8482.7	8960.8	10137.2	10164.3	10099.9
6051.8	45°	6211.2	6546.8	7028.2	7638.5	8211.5	8377.6	9543.9	9828.7	9774.4
5383.9	47.5°	5726.3	5997.6	6587.5	7204.5	7838.5	7814.8	8862.4	9398.1	9323.5
4872.0	50°	5038.1	5512.7	5790.8	6356.9	7302.9	7367.3	8136.9	8892.9	8831.9
4139.6	52.5°	4248.1	4844.8	5377.1	5895.9	6760.4	6913.0	7462.2	8377.6	8336.9
3163.2	55°	3712.5	4146.4	4746.5	5163.5	6102.7	6509.5	6957.0	7886.0	7865.7
2600.4	57.5°	2641.1	3478.5	3973.5	4556.7	5051.7	5787.4	6119.6	6885.8	6696.0
1440.9	60°	1790.1	2183.4	2786.9	3414.1	3746.4	4482.1	4790.6	5404.3	5353.4
861.2	62.5°	945.9	1308.7	1739.3	2054.6	2295.3	3010.7	3139.5	3800.6	3783.7
345.8	65°	417.0	552.6	942.5	1105.3	1352.8	1685.0	1796.9	2034.2	1976.6
169.5	67.5°	217.0	328.9	532.3	654.3	823.9	949.3	1040.8	1115.4	1162.9
111.9	70°	132.2	240.7	328.9	454.3	566.2	667.9	739.1	840.8	901.8
57.6	72.5°	98.3	152.6	227.2	349.2	410.2	528.9	600.1	674.7	728.9
47.5	75°	54.2	101.7	183.1	274.6	328.9	430.6	495.0	545.9	562.8
27.1	77.5°	33.9	78.0	152.6	213.6	257.7	349.2	332.3	379.7	420.4
20.3	80°	23.7	57.6	118.7	176.3	179.7	223.8	264.4	305.1	332.3
13.6	82.5°	17.0	47.5	88.1	135.6	118.7	172.9	206.8	237.3	172.9
10.2	85°	13.6	33.9	44.1	81.4	67.8	122.1	105.1	101.7	67.8
6.8	87.5°	10.2	17.0	30.5	37.3	27.1	27.1	33.9	40.7	33.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9954.1
9706.6
9774.4
9832.1
9916.8
10089.7
10381.3
10764.4
11184.8
11537.4
11723.9
11510.3
11296.7
11096.7
10886.5
10642.4
10377.9
10093.1
9781.2
9377.8
8842.1
8364.0
7889.4
6675.6
5356.8
3787.0
1952.9
1162.9
905.2
739.1
552.6
427.2
335.6
125.4
67.8
33.9
0.0

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