

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: P638408

Luminaire Tested: **IFLD-M-SA4D-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638408
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22741.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

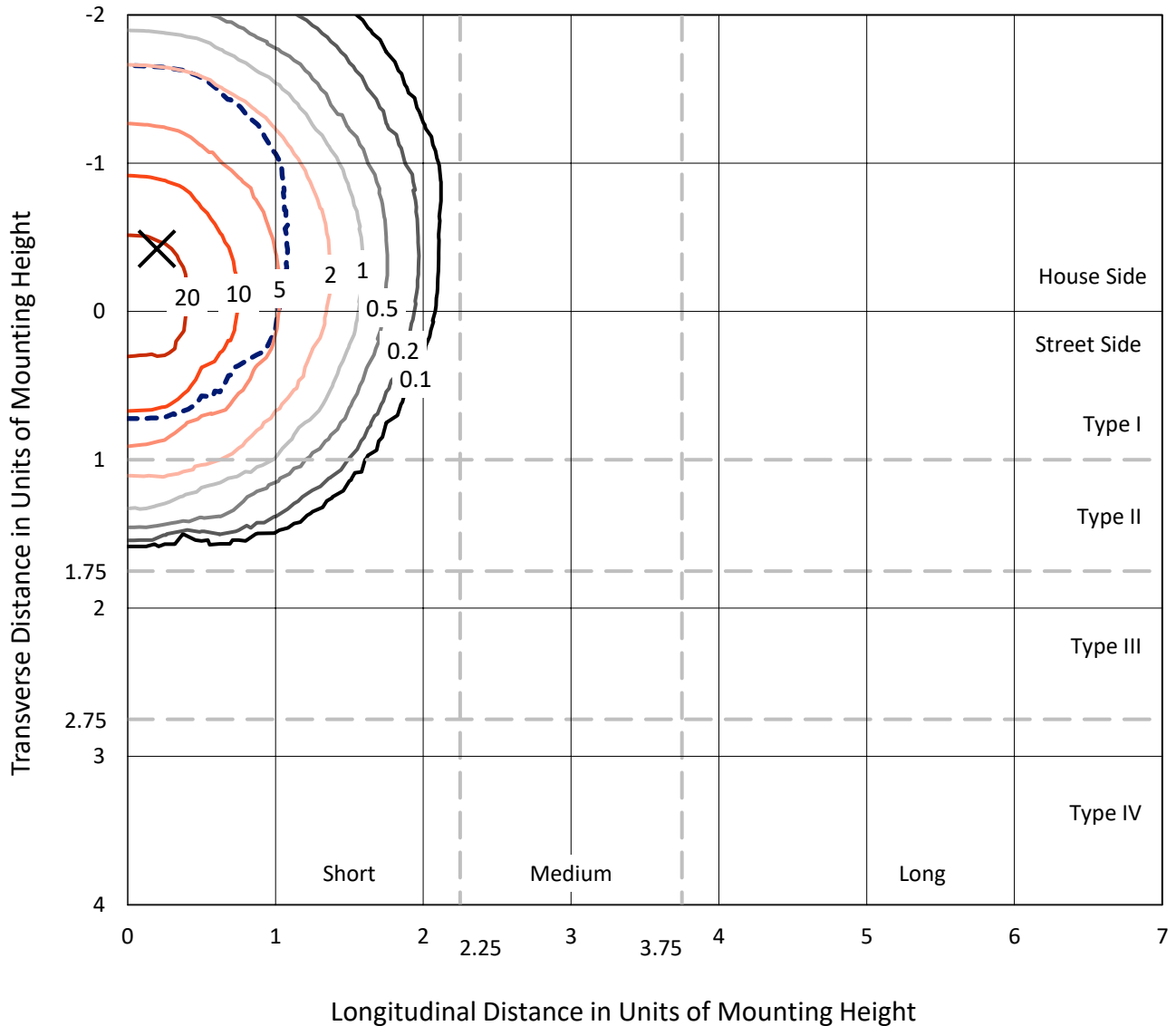
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

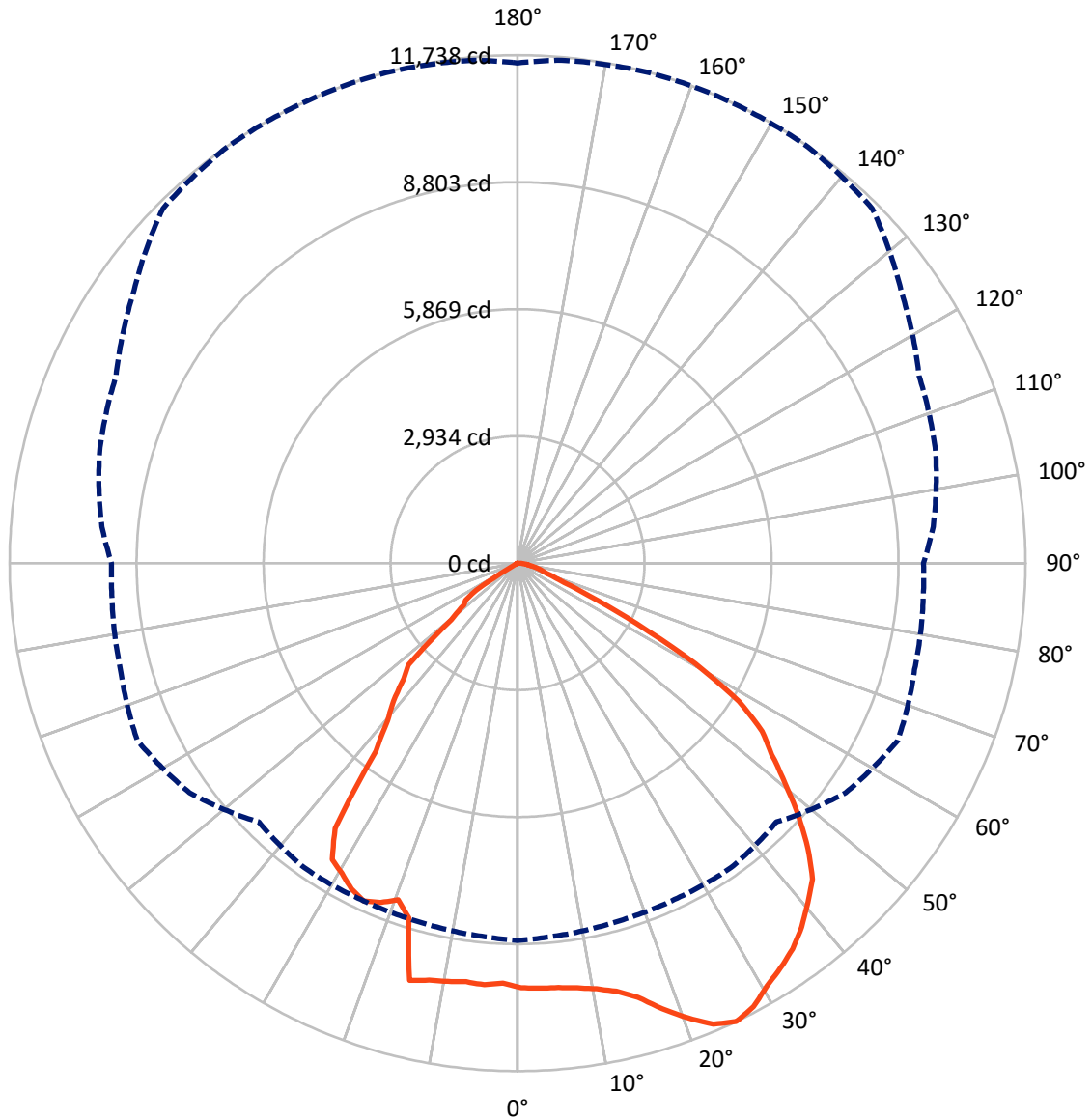
× Max cd
 - - - 1/2 Max cd



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	14079.3	0.0	14079.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8662.2	0.0	8662.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	22741.5	0.0	22741.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.4	4.1
10°-20°	2874.5	12.6
20°-30°	4544.4	20.0
30°-40°	5133.3	22.6
40°-50°	4807.4	21.1
50°-60°	3314.4	14.6
60°-70°	890.5	3.9
70°-80°	185.6	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°	22741.5	100.0
0°-180°	22741.5	100.0



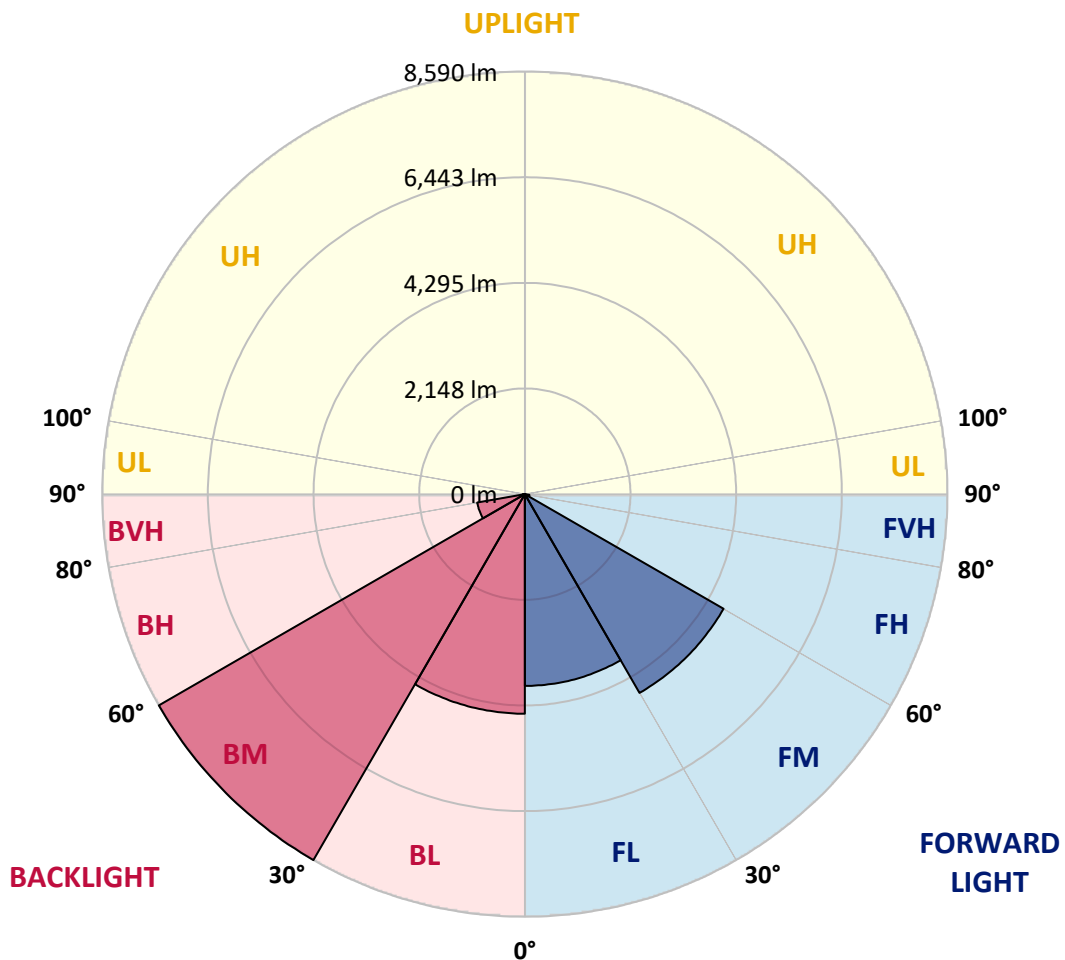
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3897.2	17.1			
FM (30°-60°)	4664.8	20.5			
FH (60°-80°)	93.5	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	4463.1	19.6	B4/5000		
BM (30°-60°)	8590.3	37.8	B5		
BH (60°-80°)	982.5	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°	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6
2.5°	9856.0	9792.5	9732.3	9712.3	9795.8	9886.1	9829.3	9832.6	9812.6	9849.3
5°	9929.5	9842.6	9802.5	9772.5	9785.8	9879.4	9799.2	9829.3	9795.8	9839.3
7.5°	9902.8	9842.6	9802.5	9745.7	9789.2	9899.5	9822.6	9825.9	9809.2	9849.3
10°	9886.1	9842.6	9792.5	9799.2	9849.3	9942.9	9882.7	9916.2	9892.8	9916.2
12.5°	9926.2	9879.4	9852.7	9852.7	9896.1	10003.1	9973.0	10003.1	9993.0	10013.1
15°	9548.5	9592.0	9846.0	9959.6	10046.5	10153.5	10140.1	10170.2	10176.9	10206.9
17.5°	8054.6	8011.1	7991.1	8576.0	10130.1	10460.9	10450.9	10447.6	10414.1	10390.8
20°	8251.8	8235.1	8211.7	8255.1	8428.9	10621.4	10688.2	10277.1	10156.8	10146.8
22.5°	8565.9	8539.2	8452.3	8455.6	8509.1	9234.4	10357.3	9983.0	9942.9	9919.5
25°	8719.7	8666.2	8596.0	8576.0	8592.7	8459.0	9251.1	9695.6	9498.4	9408.2
27.5°	8449.0	8452.3	8395.5	8449.0	8385.5	7783.9	7446.3	9134.1	9127.4	9087.3
30°	8245.1	8235.1	8168.2	8235.1	7797.2	7125.5	6981.8	8519.1	8449.0	8395.5
32.5°	7620.1	7626.8	7820.6	8081.3	7362.8	6831.4	6396.9	7610.1	8275.2	8245.1
35°	5451.0	5464.4	6152.9	7439.6	6704.4	6246.5	6213.1	6577.4	8001.1	8014.5
37.5°	5247.2	5247.2	5230.5	5441.0	6186.3	6009.2	6076.0	6039.3	7329.3	7362.8
40°	5100.1	5070.0	5046.6	4715.8	4301.3	5842.1	5888.9	5721.8	6928.3	6935.0
42.5°	4923.0	4889.6	4896.3	4284.6	3850.2	5427.7	5297.3	5073.4	6259.9	6266.5
45°	4598.8	4655.6	4695.7	3749.9	3716.5	3876.9	4886.2	4745.9	5808.7	5932.3
47.5°	2339.5	2389.6	3666.3	3449.1	3526.0	3445.8	4127.6	4130.9	4832.8	5243.8
50°	2122.3	2108.9	2112.2	2012.0	3255.3	2787.4	2984.5	3786.7	3870.2	4458.4
52.5°	1978.6	1975.2	1771.3	1574.2	2045.4	2453.1	2165.7	2740.6	2877.6	3776.6
55°	1463.9	1570.8	1397.0	1480.6	1280.0	1965.2	1955.2	2473.2	2520.0	3028.0
57.5°	13.4	16.7	40.1	1126.3	885.7	982.6	1350.2	1687.8	1771.3	2359.6
60°	3.3	6.7	16.7	33.4	574.9	604.9	902.4	975.9	1099.6	1407.0
62.5°	0.0	0.0	6.7	16.7	30.1	247.3	287.4	314.2	484.6	718.6
65°	0.0	0.0	3.3	10.0	16.7	40.1	70.2	147.1	210.6	260.7
67.5°	0.0	0.0	3.3	6.7	13.4	20.1	40.1	56.8	90.2	153.7
70°	0.0	0.0	3.3	6.7	10.0	16.7	26.7	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	50.1
75°	0.0	0.0	3.3	3.3	6.7	13.4	20.1	23.4	26.7	40.1
77.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	26.7	23.4	23.4
80°	0.0	0.0	3.3	10.0	10.0	16.7	20.1	26.7	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°
9812.6	0°	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6	9812.6
9752.4	2.5°	9886.1	9842.6	9932.9	9922.8	9879.4	9859.3	9836.0	9815.9	9668.8
9759.1	5°	9889.4	9822.6	9932.9	9912.8	9906.1	9872.7	9852.7	9882.7	9749.1
9785.8	7.5°	9889.4	9822.6	9942.9	9949.6	9939.6	9912.8	9909.5	9929.5	9819.2
9832.6	10°	9956.3	9929.5	10029.8	10039.8	10026.5	10019.8	10003.1	9989.7	9872.7
9993.0	12.5°	10096.6	10043.2	10156.8	10186.9	10176.9	10193.6	10153.5	10173.5	10053.2
10156.8	15°	10267.1	10270.4	10357.3	10424.2	10417.5	10471.0	10410.8	10464.3	10377.4
10344.0	17.5°	10527.8	10564.5	10688.2	10788.5	10825.2	10865.3	10825.2	10841.9	10718.3
10136.7	20°	10253.7	10390.8	10985.7	11169.5	11246.3	11283.1	11216.3	11236.3	11112.7
9882.7	22.5°	10006.4	10183.5	10711.6	11286.4	11523.7	11597.3	11573.9	11570.5	11523.7
9381.4	25°	9642.1	9999.7	10237.0	10845.3	11590.6	11724.3	11737.6	11734.3	11664.1
9073.9	27.5°	9194.3	9274.5	9889.4	10260.4	11122.7	11630.7	11610.6	11513.7	11420.1
8435.6	30°	8622.8	8987.0	9264.4	9856.0	10517.8	11343.3	11343.3	11269.7	11172.8
8208.3	32.5°	8332.0	8803.2	9060.6	9274.5	9839.3	11022.4	11156.1	11079.2	11002.4
8031.2	35°	8178.2	8248.4	8850.0	9043.9	9521.8	10404.1	10945.5	10868.7	10811.9
7559.9	37.5°	7840.7	8004.5	8285.2	8803.2	8950.3	9899.5	10664.8	10624.7	10557.9
6948.3	40°	7088.7	7526.5	7957.7	8449.0	8602.7	9251.1	10323.9	10340.6	10250.4
6296.6	42.5°	6644.2	6941.6	7616.8	7947.6	8362.1	8833.3	9993.0	10019.8	9956.3
5965.7	45°	6122.8	6453.7	6928.3	7529.9	8094.7	8258.5	9408.2	9688.9	9635.4
5307.3	47.5°	5644.9	5912.3	6493.8	7102.1	7727.1	7703.7	8736.4	9264.4	9190.9
4802.7	50°	4966.4	5434.3	5708.4	6266.5	7199.0	7262.5	8021.2	8766.5	8706.3
4080.8	52.5°	4187.7	4775.9	5300.7	5812.0	6664.3	6814.6	7356.1	8258.5	8218.4
3118.2	55°	3659.7	4087.5	4679.0	5090.1	6015.9	6416.9	6858.1	7773.8	7753.8
2563.4	57.5°	2603.5	3429.0	3917.0	4491.9	4979.8	5705.1	6032.6	6787.9	6600.8
1420.4	60°	1764.7	2152.3	2747.2	3365.5	3693.1	4418.3	4722.5	5327.4	5277.3
848.9	62.5°	932.5	1290.1	1714.5	2025.3	2262.6	2967.8	3094.8	3746.6	3729.8
340.9	65°	411.1	544.8	929.1	1089.5	1333.5	1661.0	1771.3	2005.3	1948.5
167.1	67.5°	213.9	324.2	524.7	645.0	812.1	935.8	1026.0	1099.6	1146.4
110.3	70°	130.3	237.3	324.2	447.8	558.1	658.4	728.6	828.9	889.0
56.8	72.5°	96.9	150.4	223.9	344.2	404.4	521.4	591.6	665.1	718.6
46.8	75°	53.5	100.3	180.5	270.7	324.2	424.5	488.0	538.1	554.8
26.7	77.5°	33.4	76.9	150.4	210.6	254.0	344.2	327.5	374.3	414.4
20.1	80°	23.4	56.8	117.0	173.8	177.1	220.6	260.7	300.8	327.5
13.4	82.5°	16.7	46.8	86.9	133.7	117.0	170.4	203.9	234.0	170.4
10.0	85°	13.4	33.4	43.4	80.2	66.8	120.3	103.6	100.3	66.8
6.7	87.5°	10.0	16.7	30.1	36.8	26.7	26.7	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°
9812.6
9568.6
9635.4
9692.2
9775.8
9946.2
10233.7
10611.3
11025.8
11373.3
11557.2
11346.6
11136.1
10938.9
10731.6
10491.0
10230.3
9949.6
9642.1
9244.4
8716.3
8245.1
7777.2
6580.7
5280.6
3733.2
1925.1
1146.4
892.4
728.6
544.8
421.1
330.9
123.7
66.8
33.4
0.0

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