

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: P637112

Luminaire Tested: **IFLD-L-SA8C-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637112
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49694.1 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

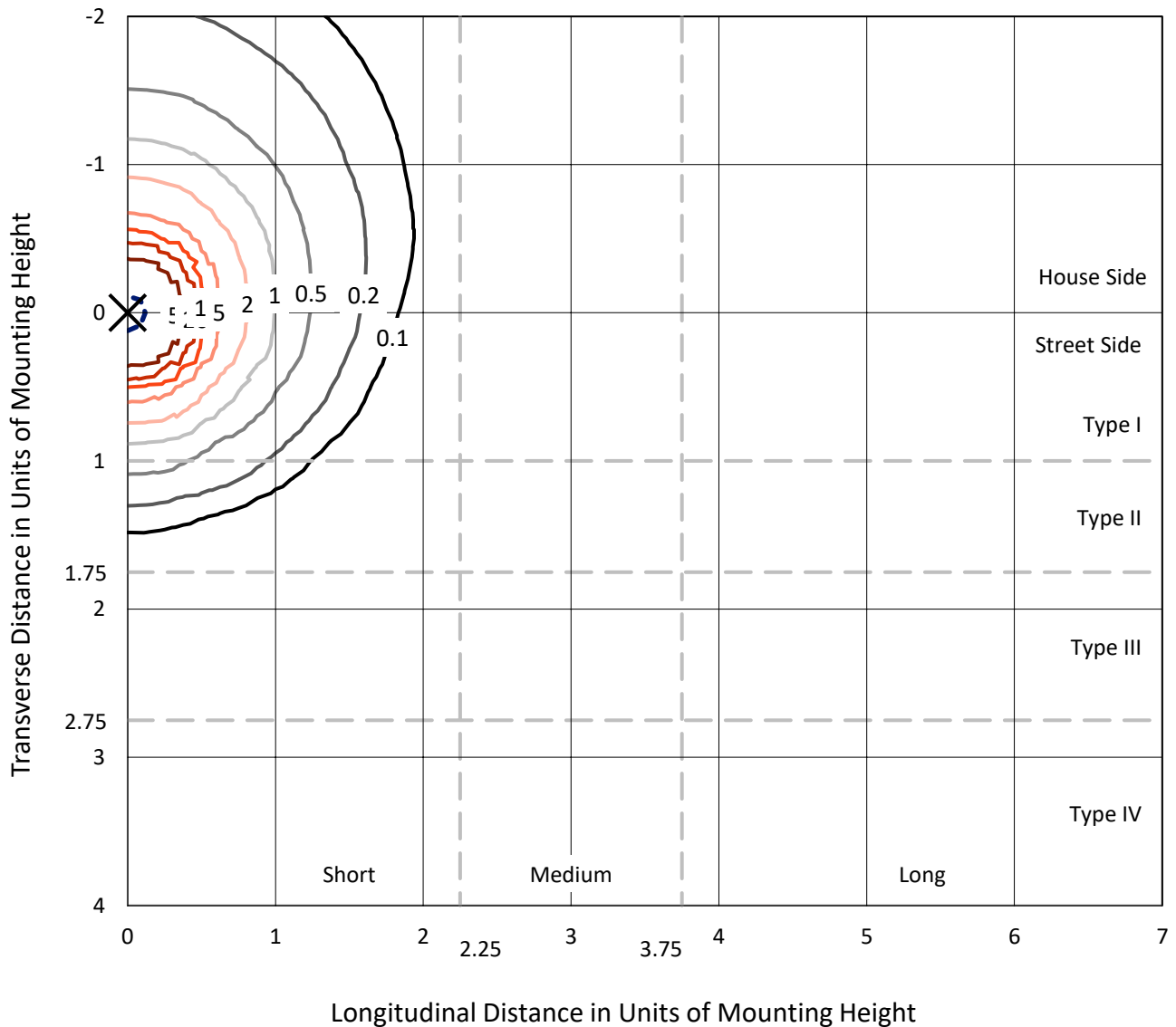
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

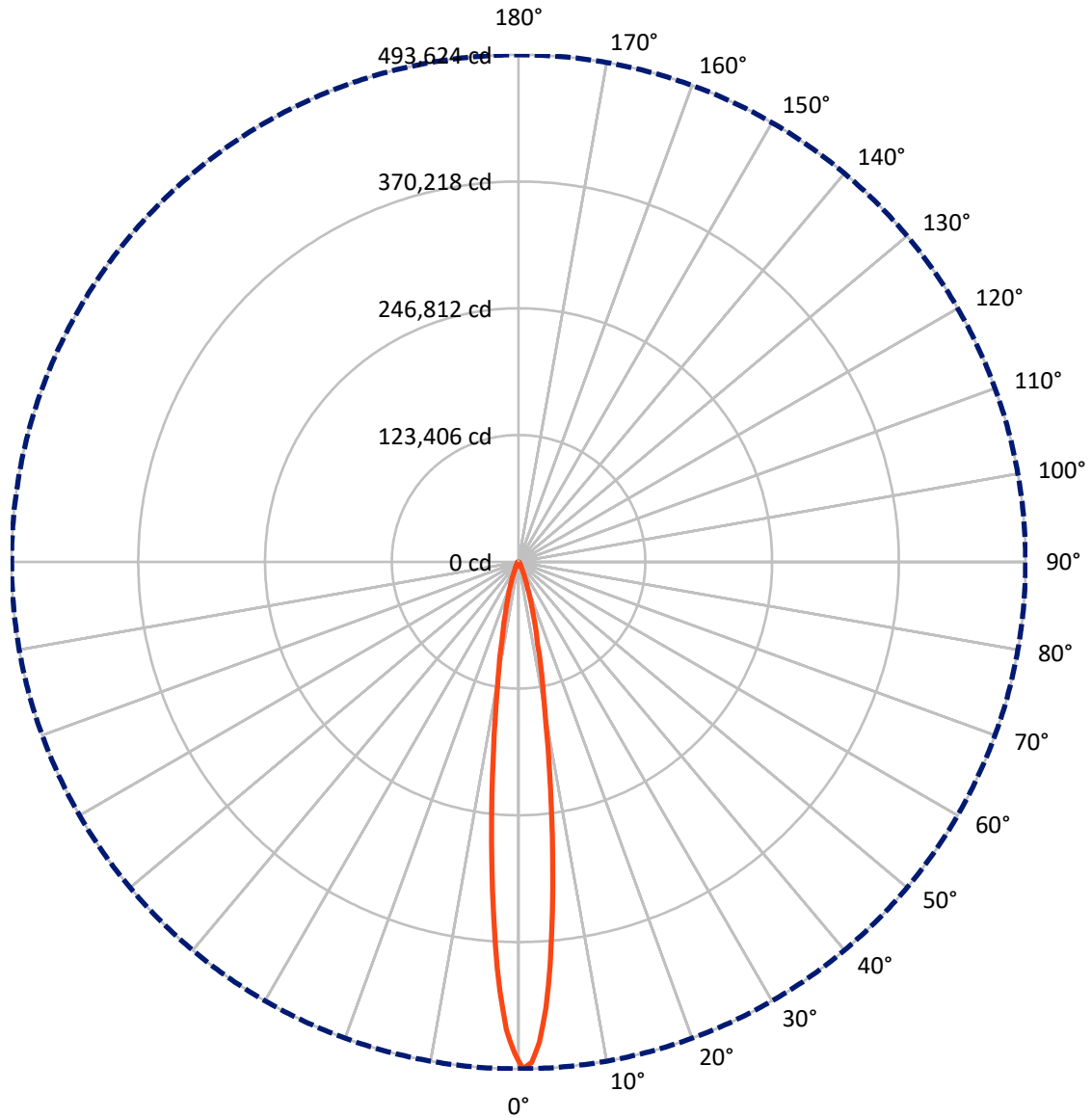
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1234.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25452.4	0.0	25452.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	24241.7	0.0	24241.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	49694.1	0.0	49694.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25087.1	50.5
10°-20°	16060.6	32.3
20°-30°	4827.5	9.7
30°-40°	1571.9	3.2
40°-50°	914.5	1.8
50°-60°	607.5	1.2
60°-70°	365.6	0.7
70°-80°	188.0	0.4
80°-90°	71.4	0.1
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°	49694.1	100.0
0°-180°	49694.1	100.0

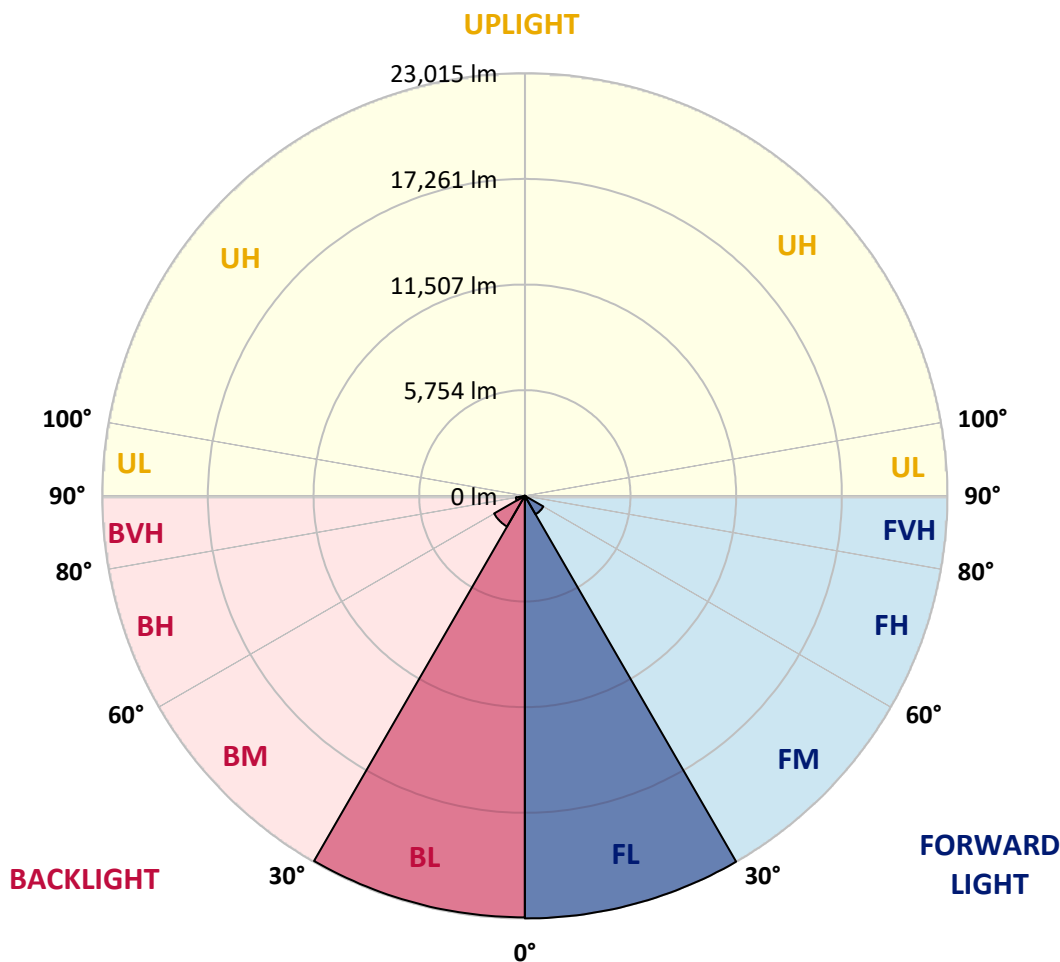


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23014.9	46.3			
FM (30°-60°)	1161.4	2.3			
FH (60°-80°)	54.7	0.1			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	22960.4	46.2	B5		
BM (30°-60°)	1932.5	3.9	B2/2500		
BH (60°-80°)	498.9	1.0	B1/500		G0/660
BVH (80°-90°)	60.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9
1°	487713.4	486225.0	482382.1	485115.4	487518.6	486820.4	486771.6	486511.8	486149.2	488996.2
2°	468217.7	467254.2	461571.1	463914.7	467330.0	464840.3	466399.1	465029.7	465056.8	468455.8
3°	435353.1	435878.1	426812.2	431071.8	435818.5	429783.6	431656.3	435174.4	431488.5	430379.0
4°	392637.7	388080.4	383128.0	387458.0	388686.6	385173.9	388627.1	392935.4	387815.2	388042.5
5°	343871.3	340504.7	334643.0	337316.8	334269.5	335379.1	340553.4	342328.7	338756.5	334258.7
6°	293730.0	291337.7	284009.2	287862.9	286780.4	286152.6	292685.4	287272.9	289221.4	286499.0
7°	244324.9	239854.2	236254.9	239946.2	240184.3	238295.4	246776.7	245791.7	242246.5	241423.8
8°	202426.9	197967.0	194919.7	197669.3	199466.2	196500.2	200489.2	203108.8	200337.6	200586.6
9°	163267.5	162482.7	158244.8	161838.7	163792.6	160615.4	165032.0	165979.2	163386.6	164647.7
10°	134056.4	133141.7	129758.9	131214.8	134451.5	130662.7	134900.7	135209.2	133141.7	133731.6
12.5°	82843.5	82475.4	82383.4	82594.5	82551.2	83222.3	84304.8	83070.8	82908.4	80867.9
15°	53545.7	54092.4	53529.5	54612.0	54768.9	55402.2	54741.9	53746.0	51846.2	50904.4
17.5°	33416.7	34114.9	35078.3	36664.2	38250.0	38434.0	37557.2	36388.1	35468.0	34461.3
20°	19225.1	19566.1	19420.0	21319.8	25422.4	26537.4	25406.2	24177.6	23068.0	22050.5
22.5°	11945.3	11820.9	12048.2	12686.9	14023.7	17471.5	16546.0	15317.3	14510.9	13671.9
25°	7323.1	7458.4	7371.8	7723.6	8324.4	9785.8	9996.9	9466.4	9055.1	8622.1
27.5°	4714.3	4714.3	4752.2	4947.0	5358.4	5309.6	6435.4	6024.1	5802.2	5591.1
30°	3274.6	3285.4	3285.4	3399.0	3491.1	3328.7	3621.0	4151.4	4048.5	3886.2
32.5°	2430.2	2462.7	2489.7	2549.3	2473.5	2300.3	2370.7	2987.7	2928.2	2868.6
35°	1851.1	1878.1	1943.1	1975.6	1867.3	1759.1	1694.1	2197.5	2224.5	2208.3
37.5°	1347.7	1363.9	1483.0	1607.5	1483.0	1385.6	1347.7	1688.7	1818.6	1802.4
40°	1033.8	1039.2	1060.8	1201.6	1201.6	1125.8	1136.6	1261.1	1488.4	1488.4
42.5°	887.6	887.6	909.3	887.6	893.1	974.2	1001.3	1017.5	1261.1	1261.1
45°	768.6	768.6	779.4	725.3	671.1	838.9	860.6	866.0	1060.8	1087.9
47.5°	644.1	644.1	665.7	595.4	568.3	665.7	725.3	741.5	914.7	936.4
50°	476.3	481.7	546.7	487.1	503.4	514.2	627.8	638.7	774.0	822.7
52.5°	319.3	319.3	330.2	378.9	438.4	422.2	508.8	546.7	617.0	682.0
55°	259.8	259.8	254.4	243.6	324.7	351.8	373.5	454.6	503.4	584.5
57.5°	178.6	189.4	173.2	200.3	211.1	265.2	281.4	357.2	384.3	492.5
60°	21.6	27.1	37.9	146.1	140.7	178.6	211.1	281.4	313.9	378.9
62.5°	5.4	5.4	10.8	27.1	97.4	119.1	167.8	194.8	227.3	292.3
65°	0.0	0.0	5.4	10.8	21.6	64.9	86.6	113.7	162.4	205.7
67.5°	0.0	0.0	5.4	10.8	10.8	27.1	43.3	70.4	86.6	151.5
70°	0.0	0.0	5.4	10.8	10.8	21.6	27.1	32.5	59.5	81.2
72.5°	0.0	0.0	5.4	10.8	16.2	21.6	27.1	27.1	27.1	54.1
75°	0.0	0.0	5.4	10.8	16.2	21.6	27.1	27.1	21.6	21.6
77.5°	0.0	0.0	5.4	10.8	21.6	27.1	32.5	27.1	16.2	16.2
80°	0.0	0.0	5.4	16.2	27.1	37.9	43.3	32.5	16.2	10.8
82.5°	0.0	0.0	10.8	21.6	32.5	43.3	59.5	48.7	21.6	10.8
85°	0.0	0.0	5.4	16.2	32.5	43.3	86.6	59.5	27.1	5.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.8	32.5	21.6	10.8	5.4
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°
493623.9	0°	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9	493623.9
485710.8	1°	489104.4	489445.4	488330.4	490057.0	489450.8	485900.2	484725.7	483334.7
466458.6	2°	465029.7	466767.1	466853.7	468769.7	468742.7	464602.1	463319.4	465684.6
432630.6	3°	431320.8	433345.0	431521.0	434925.5	433902.5	428879.7	427575.3	430259.9
389839.5	4°	388675.8	388291.5	387663.7	385726.0	388112.9	384686.8	382105.1	385747.7
340223.3	5°	339541.3	338686.1	337462.9	336889.2	338664.5	336472.4	331162.8	336483.2
291424.3	6°	291781.5	288101.1	287922.4	287603.1	287781.7	281644.0	282012.0	285973.9
238593.1	7°	241115.3	241791.8	240411.7	242625.4	240936.7	236779.9	235177.8	239350.8
201679.9	8°	200272.7	199417.5	198362.1	201669.1	198741.0	196013.1	194145.8	197442.0
164853.4	9°	164544.9	163067.3	161995.6	161827.8	162282.5	157162.3	158201.5	160696.6
134056.4	10°	134105.1	131680.3	132270.3	132427.2	131929.3	128573.5	128606.0	129466.6
82221.0	12.5°	81928.8	80738.0	81035.7	81198.1	82210.2	81030.3	79363.2	78161.7
51840.8	15°	51494.4	50639.2	52387.4	53561.9	53323.8	52273.8	51488.9	50401.0
34461.3	17.5°	34141.9	35262.3	35267.7	36339.4	36447.7	35397.6	34791.4	33811.8
22413.1	20°	22331.9	22797.4	23766.2	24524.0	24962.4	24161.3	23436.1	22764.9
13975.0	22.5°	13975.0	14786.9	15393.1	16378.2	16778.7	16194.1	15680.0	15133.3
8724.9	25°	8578.8	9157.9	9661.3	10516.5	11063.1	10781.7	10310.8	9926.5
5634.4	27.5°	5721.0	5964.6	6213.5	6803.5	7371.8	7214.8	7025.4	6792.7
3972.8	30°	4032.3	4053.9	4319.2	4649.3	5028.2	5125.6	5039.0	4919.9
2917.3	32.5°	2971.5	3058.1	3182.5	3388.2	3642.6	3875.3	3832.0	3777.9
2229.9	35°	2294.9	2424.8	2527.6	2684.6	2819.9	3041.8	3079.7	3063.5
1834.8	37.5°	1872.7	1986.4	2089.2	2181.2	2294.9	2446.4	2565.5	2570.9
1515.5	40°	1553.4	1656.2	1791.5	1861.9	1943.1	2056.7	2202.9	2213.7
1282.8	42.5°	1309.8	1407.2	1542.6	1629.2	1688.7	1796.9	1943.1	1964.7
1098.7	45°	1125.8	1185.3	1326.1	1428.9	1488.4	1558.8	1715.8	1737.4
947.2	47.5°	979.7	1039.2	1125.8	1271.9	1326.1	1391.0	1515.5	1553.4
838.9	50°	860.6	920.1	995.9	1125.8	1207.0	1261.1	1363.9	1418.1
730.7	52.5°	763.2	822.7	903.9	1006.7	1098.7	1147.4	1244.9	1315.2
595.4	55°	638.7	741.5	801.0	893.1	1017.5	1060.8	1136.6	1228.6
519.6	57.5°	557.5	644.1	730.7	806.5	930.9	985.1	1060.8	1147.4
411.3	60°	470.9	552.1	654.9	719.9	838.9	909.3	990.5	1071.7
313.9	62.5°	373.5	481.7	552.1	644.1	757.7	849.8	914.7	995.9
243.6	65°	276.0	395.1	476.3	573.7	682.0	779.4	833.5	920.1
173.2	67.5°	200.3	308.5	405.9	497.9	600.8	698.2	752.3	828.1
108.2	70°	157.0	227.3	335.6	416.8	525.0	606.2	665.7	714.4
70.4	72.5°	92.0	173.2	270.6	362.6	460.1	514.2	557.5	600.8
32.5	75°	59.5	135.3	221.9	303.1	373.5	422.2	460.1	497.9
16.2	77.5°	37.9	97.4	178.6	254.4	286.9	346.4	378.9	400.5
10.8	80°	21.6	75.8	157.0	205.7	232.7	270.6	303.1	330.2
10.8	82.5°	16.2	64.9	129.9	173.2	173.2	216.5	232.7	232.7
5.4	85°	10.8	54.1	102.8	162.4	129.9	162.4	151.5	151.5
5.4	87.5°	10.8	37.9	48.7	70.4	59.5	70.4	70.4	81.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
493623.9
477824.8
455666.1
418336.2
372562.8
322464.9
274488.7
228000.8
188029.7
152902.6
123610.3
77431.0
49843.6
33568.2
22532.2
14841.0
9704.6
6657.4
4838.8
3734.6
3009.3
2533.0
2197.5
1948.5
1732.0
1558.8
1423.5
1315.2
1234.0
1152.9
1093.3
1033.8
936.4
833.5
730.7
611.6
497.9
389.7
297.7
216.5
146.1
81.2
0.0

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