

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: P637365

Luminaire Tested: **IFLD-M-SA4E-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637365  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34440.3 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

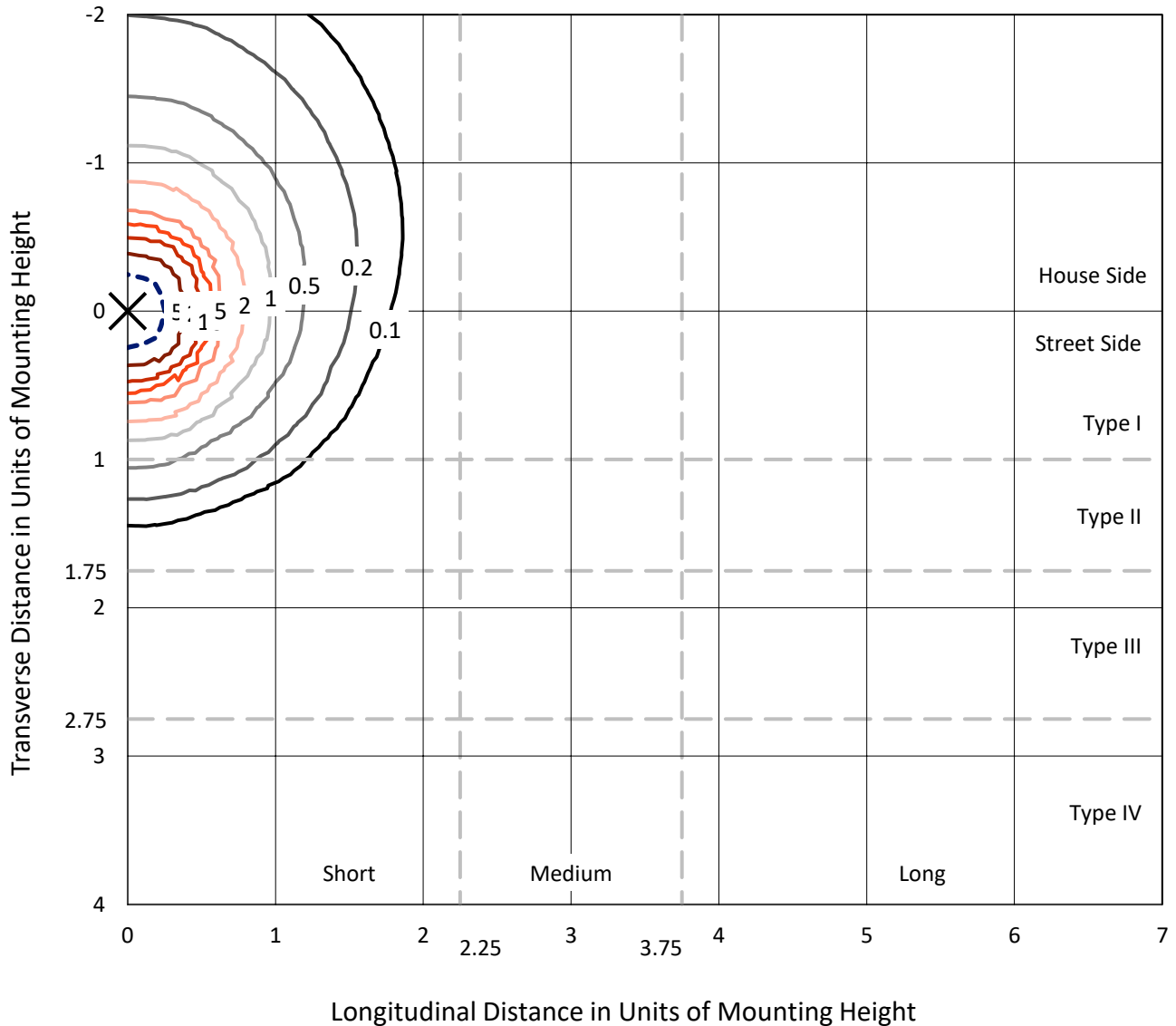
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

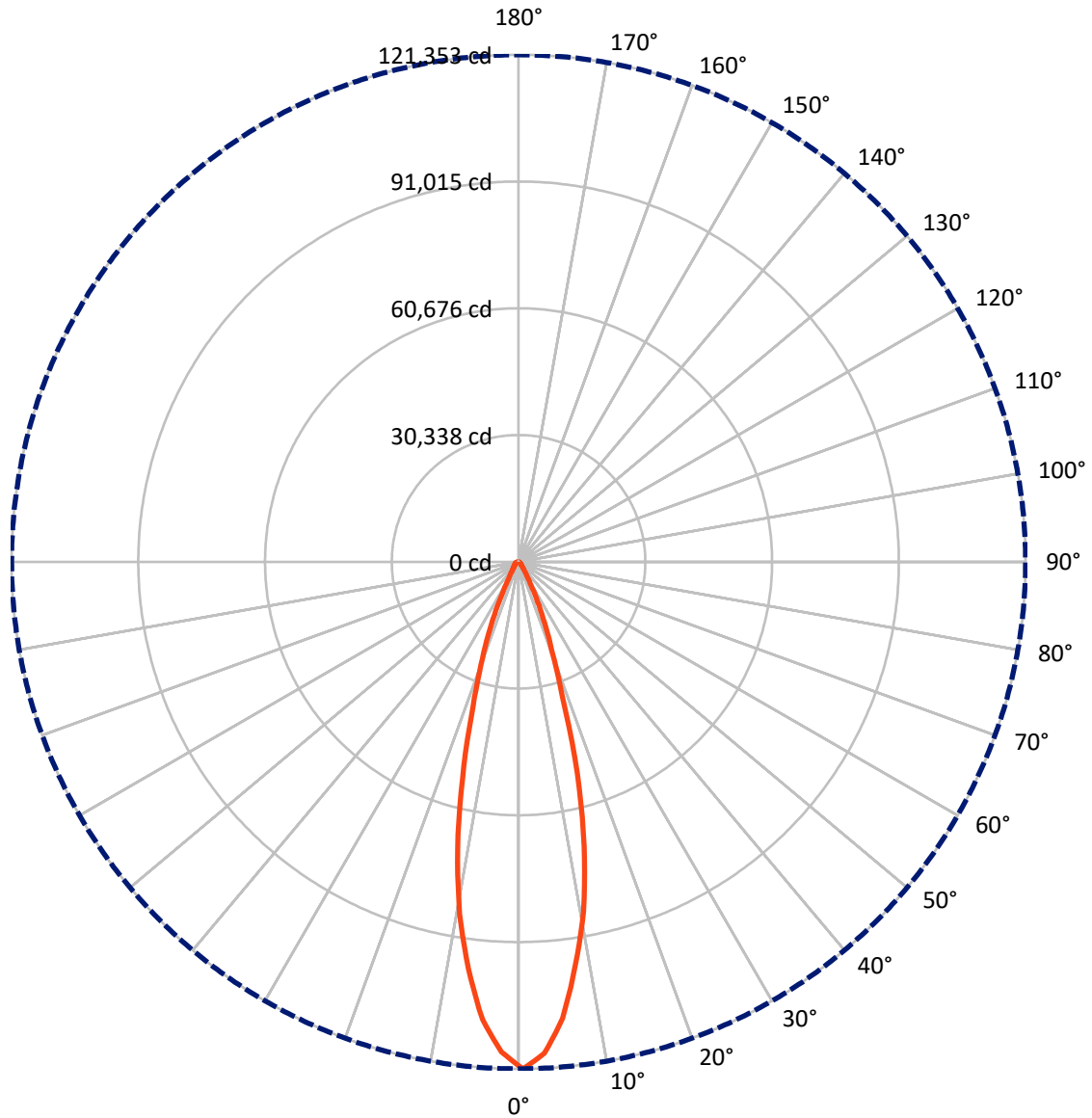
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 303.4 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
<b>House Side</b>	Lumens	18159.3	0.0	18159.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	16281.1	0.0	16281.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	34440.3	0.0	34440.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9794.3	28.4
10°-20°	14833.3	43.1
20°-30°	6259.7	18.2
30°-40°	1632.6	4.7
40°-50°	825.7	2.4
50°-60°	539.7	1.6
60°-70°	323.4	0.9
70°-80°	170.1	0.5
80°-90°	61.4	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°	34440.3	100.0
0°-180°	34440.3	100.0

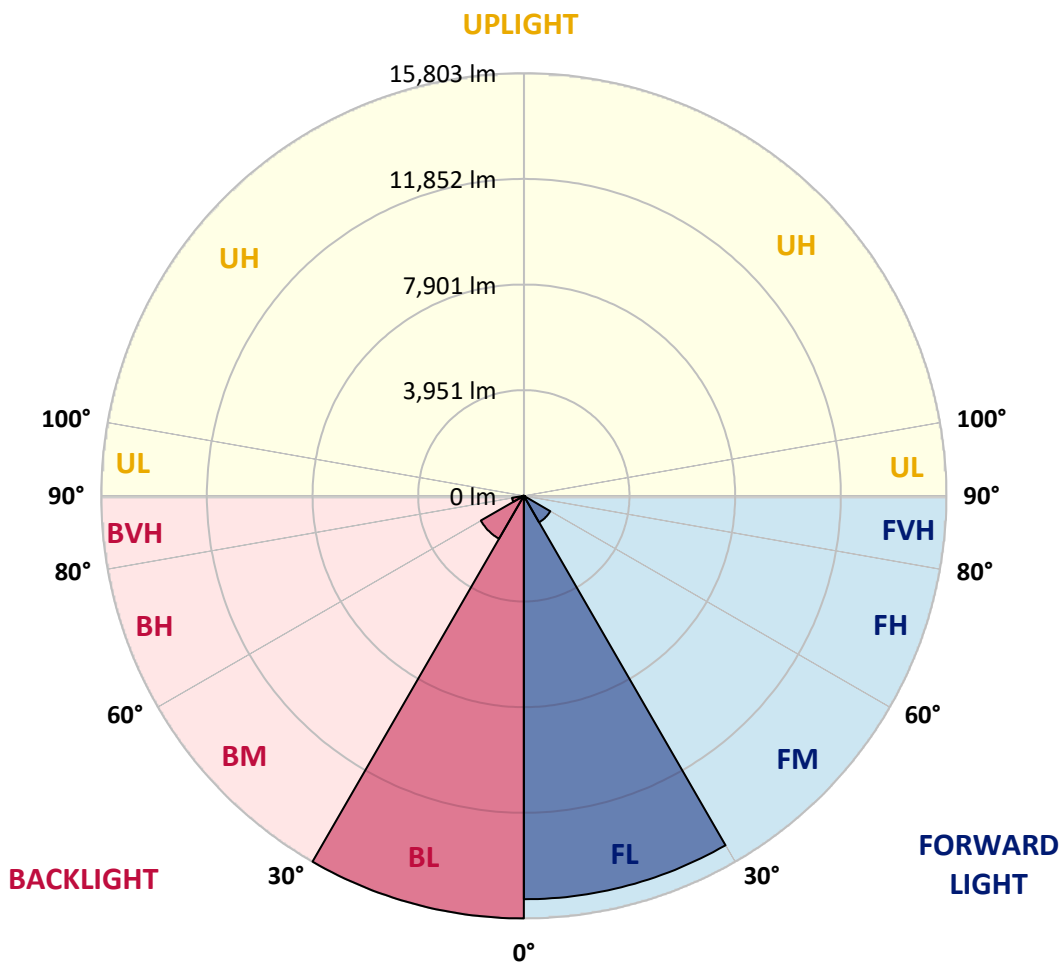


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15084.6	43.8			
FM (30°-60°)	1142.4	3.3			
FH (60°-80°)	46.6	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15802.7	45.9	B5		
BM (30°-60°)	1855.7	5.4	B2/2500		
BH (60°-80°)	446.9	1.3	B1/500		G0/660
BVH (80°-90°)	54.0	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	121352.8	121352.8	121352.8	121352.8	121352.8	121352.8	121352.8	121352.8	121352.8	121352.8
2.5°	117817.7	117883.5	117639.8	118165.8	117755.9	118854.3	118308.9	119159.8	118873.6	119349.3
5°	109772.9	109664.6	109595.0	110411.1	110175.2	111354.8	110600.6	110353.1	111118.9	110979.7
7.5°	97624.5	97910.7	97748.3	97961.0	98080.9	99426.8	99852.3	99519.7	99531.3	99724.7
10°	85170.5	84748.9	84149.4	84547.8	85391.0	85978.9	85742.9	86230.3	86122.0	86582.2
12.5°	69846.7	70179.3	69842.8	69487.0	70960.6	70798.2	71208.1	71475.0	70805.9	72295.0
15°	52612.3	52786.3	53196.3	53169.2	54302.4	54530.6	54476.5	54758.8	54236.7	54484.2
17.5°	33799.8	34387.7	35490.0	37354.2	39450.5	39694.2	39632.3	39400.2	39148.8	38870.3
20°	22703.4	22641.5	23039.9	23585.2	27924.8	29073.5	29038.7	28311.5	27259.5	27058.4
22.5°	15904.0	16020.0	15965.8	16507.3	17404.6	20572.3	20181.6	19442.9	19098.7	18874.4
25°	10462.1	10419.6	10690.3	10852.8	11622.4	12009.2	13378.4	13103.8	12573.9	12631.9
27.5°	6377.8	6432.0	6532.5	6671.8	7217.1	7093.4	7874.6	7979.1	7808.9	7627.1
30°	3914.1	3952.8	4034.0	4134.6	4324.1	4188.7	4405.3	4780.5	4718.6	4591.0
32.5°	2657.1	2661.0	2719.0	2757.7	2734.5	2606.8	2676.4	3032.3	3040.0	3028.4
35°	1910.6	1910.6	1964.8	1995.7	1930.0	1825.6	1837.2	2057.6	2154.3	2173.6
37.5°	1318.9	1322.8	1415.6	1508.4	1434.9	1407.8	1361.4	1508.4	1663.1	1686.3
40°	1001.7	997.9	1044.3	1113.9	1121.6	1071.4	1086.8	1179.6	1338.2	1357.6
42.5°	812.2	816.1	839.3	831.6	835.4	901.2	924.4	966.9	1113.9	1148.7
45°	684.6	688.4	700.1	661.4	645.9	746.5	777.4	800.6	924.4	966.9
47.5°	564.7	572.4	584.0	541.5	533.7	599.5	653.6	676.8	785.1	831.6
50°	406.1	413.8	456.4	433.2	456.4	471.9	545.3	580.2	653.6	715.5
52.5°	293.9	301.7	313.3	317.2	375.2	382.9	437.0	491.2	526.0	595.6
55°	232.1	239.8	232.1	224.3	274.6	317.2	336.5	394.5	421.6	502.8
57.5°	131.5	139.2	150.8	174.0	181.8	243.7	263.0	313.3	336.5	413.8
60°	23.2	27.1	42.5	104.4	127.6	154.7	197.3	239.8	270.7	324.9
62.5°	3.9	3.9	7.7	23.2	73.5	108.3	143.1	170.2	197.3	247.5
65°	0.0	0.0	3.9	7.7	19.3	61.9	77.4	100.6	135.4	177.9
67.5°	0.0	0.0	3.9	7.7	11.6	23.2	34.8	61.9	77.4	119.9
70°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	27.1	46.4	73.5
72.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	23.2	23.2	46.4
75°	0.0	0.0	3.9	7.7	11.6	19.3	23.2	23.2	19.3	19.3
77.5°	0.0	0.0	3.9	7.7	15.5	23.2	27.1	23.2	15.5	15.5
80°	0.0	0.0	7.7	11.6	19.3	27.1	34.8	27.1	15.5	7.7
82.5°	0.0	0.0	7.7	15.5	19.3	30.9	42.5	34.8	15.5	7.7
85°	0.0	0.0	3.9	11.6	23.2	30.9	42.5	30.9	15.5	3.9
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	23.2	19.3	7.7	3.9
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°
<b>121352.8</b>	0°	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>	<b>121352.8</b>
118448.2	2.5°	119128.9	119747.7	119875.4	119705.2	119952.7	119507.9	119167.6	118285.7	117755.9
110937.1	5°	111652.6	111559.8	112205.7	112418.4	112391.4	112051.0	111575.3	111041.5	110523.3
99349.5	7.5°	99968.3	100088.2	100676.1	101051.3	100861.8	100436.3	100107.6	99705.3	99357.2
86748.5	10°	87541.4	86717.6	87448.6	87448.6	87955.3	86752.4	86864.6	85851.2	85897.6
72267.9	12.5°	72515.4	72813.2	72933.1	73277.4	72685.6	72047.4	71266.2	71111.4	70628.0
54012.4	15°	54789.8	55640.7	54909.7	56158.9	55555.6	54890.3	54770.4	53571.4	53950.5
39175.9	17.5°	38982.5	39922.4	40216.3	40931.8	40382.6	39988.1	39489.2	39125.6	39098.5
27425.8	20°	27642.4	28586.1	28802.7	29661.4	29599.5	29475.7	29054.1	28593.9	28094.9
18669.4	22.5°	18951.7	19721.4	20440.8	21597.2	21577.9	21214.3	21171.8	20522.0	20533.6
12612.6	25°	12744.1	13304.9	13475.1	14658.6	14790.1	14751.4	14530.9	13927.6	14155.8
7704.4	27.5°	7712.2	8203.4	8779.7	9197.4	9591.9	9530.0	9309.5	8973.1	8826.1
4629.6	30°	4753.4	4973.9	5186.6	5689.4	5925.3	6049.1	5944.6	5631.4	5654.6
3047.7	32.5°	3113.5	3299.1	3453.9	3771.0	3894.8	4123.0	4080.4	4014.7	3937.3
2193.0	35°	2270.3	2405.7	2510.1	2657.1	2815.7	3009.1	3040.0	3012.9	2982.0
1694.1	37.5°	1732.7	1872.0	1991.9	2053.7	2177.5	2328.4	2413.4	2409.6	2386.4
1380.8	40°	1407.8	1512.3	1620.6	1701.8	1786.9	1899.0	2003.5	2015.1	2015.1
1160.3	42.5°	1175.8	1264.7	1373.0	1458.1	1520.0	1624.4	1732.7	1740.5	1732.7
982.4	45°	1005.6	1083.0	1187.4	1287.9	1338.2	1415.6	1520.0	1543.2	1527.7
843.2	47.5°	874.1	943.7	1032.7	1141.0	1195.1	1264.7	1361.4	1388.5	1384.6
727.1	50°	750.3	831.6	920.5	1009.5	1079.1	1144.8	1237.7	1268.6	1257.0
618.8	52.5°	661.4	734.9	812.2	908.9	990.1	1048.1	1121.6	1175.8	1160.3
522.1	55°	553.1	642.0	723.3	804.5	905.0	966.9	1036.5	1102.3	1086.8
440.9	57.5°	479.6	553.1	645.9	719.4	820.0	893.4	963.1	1032.7	1028.8
359.7	60°	402.2	479.6	568.6	645.9	738.7	820.0	889.6	966.9	974.7
270.7	62.5°	317.2	410.0	487.3	576.3	669.1	758.1	820.0	897.3	908.9
205.0	65°	239.8	336.5	421.6	506.7	599.5	696.2	750.3	816.1	827.7
150.8	67.5°	177.9	259.1	359.7	437.0	533.7	626.6	676.8	731.0	750.3
92.8	70°	135.4	197.3	301.7	375.2	475.7	549.2	603.4	649.8	665.2
61.9	72.5°	85.1	154.7	243.7	321.0	410.0	475.7	514.4	541.5	564.7
34.8	75°	58.0	119.9	197.3	274.6	340.4	390.6	425.4	448.7	468.0
15.5	77.5°	34.8	92.8	162.4	228.2	270.7	309.4	344.2	359.7	371.3
11.6	80°	19.3	69.6	135.4	185.6	212.7	239.8	266.9	286.2	293.9
7.7	82.5°	11.6	54.1	108.3	143.1	154.7	181.8	208.9	220.5	220.5
3.9	85°	7.7	38.7	73.5	104.4	112.2	131.5	139.2	147.0	154.7
3.9	87.5°	7.7	23.2	46.4	58.0	61.9	69.6	73.5	81.2	89.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
121352.8  
117365.2  
109943.1  
98177.6  
85445.1  
70187.1  
53571.4  
38379.1  
27878.3  
20309.3  
13796.1  
8698.4  
5554.0  
3910.2  
2970.4  
2374.8  
1991.9  
1725.0  
1527.7  
1376.9  
1249.3  
1156.4  
1094.6  
1032.7  
978.5  
916.6  
839.3  
758.1  
673.0  
560.8  
464.1  
367.4  
286.2  
216.6  
150.8  
85.1  
0.0

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