

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: P637170

Luminaire Tested: **IFLD-L-SA8C-750-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637170  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-750-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51538.2 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

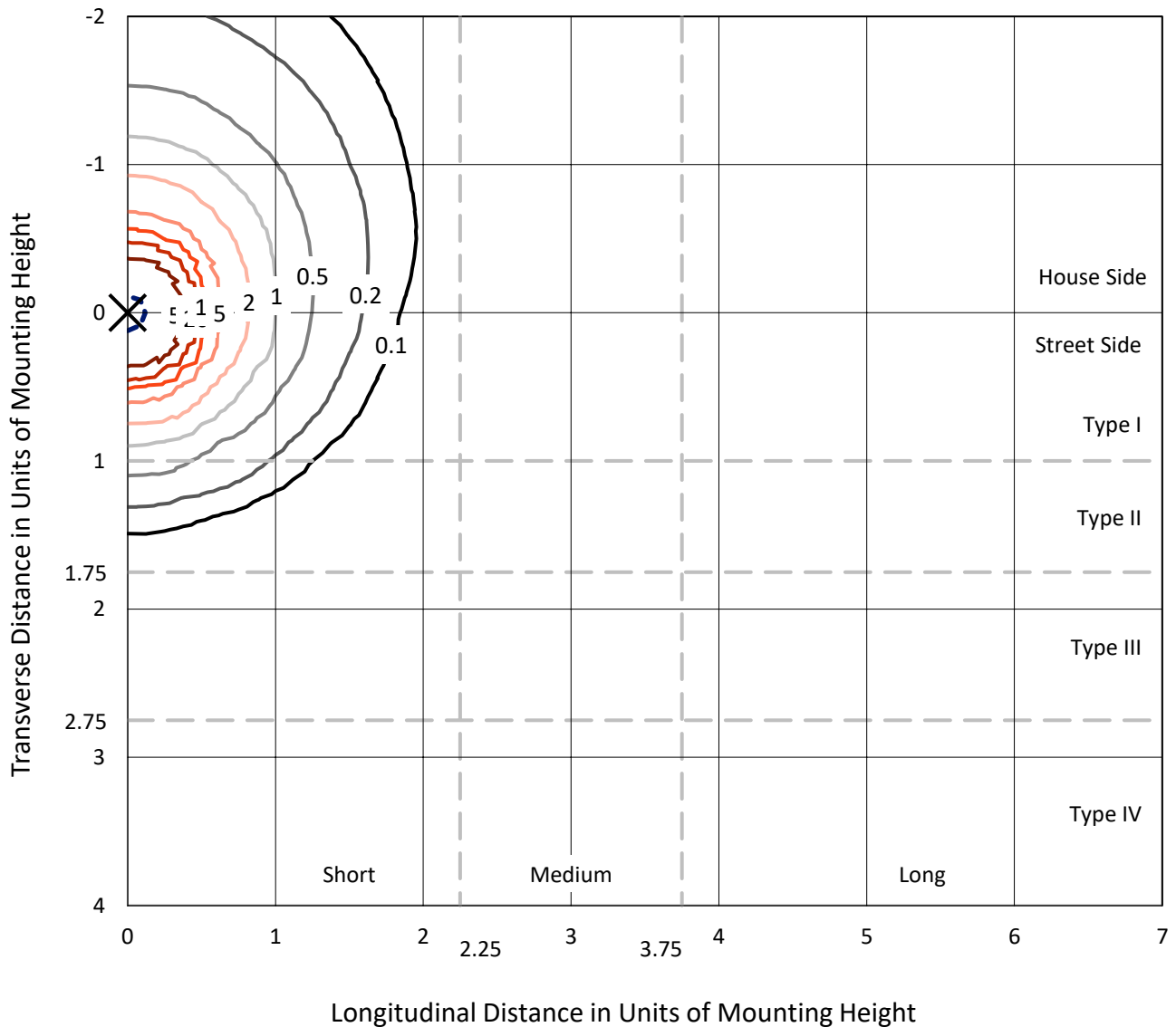
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

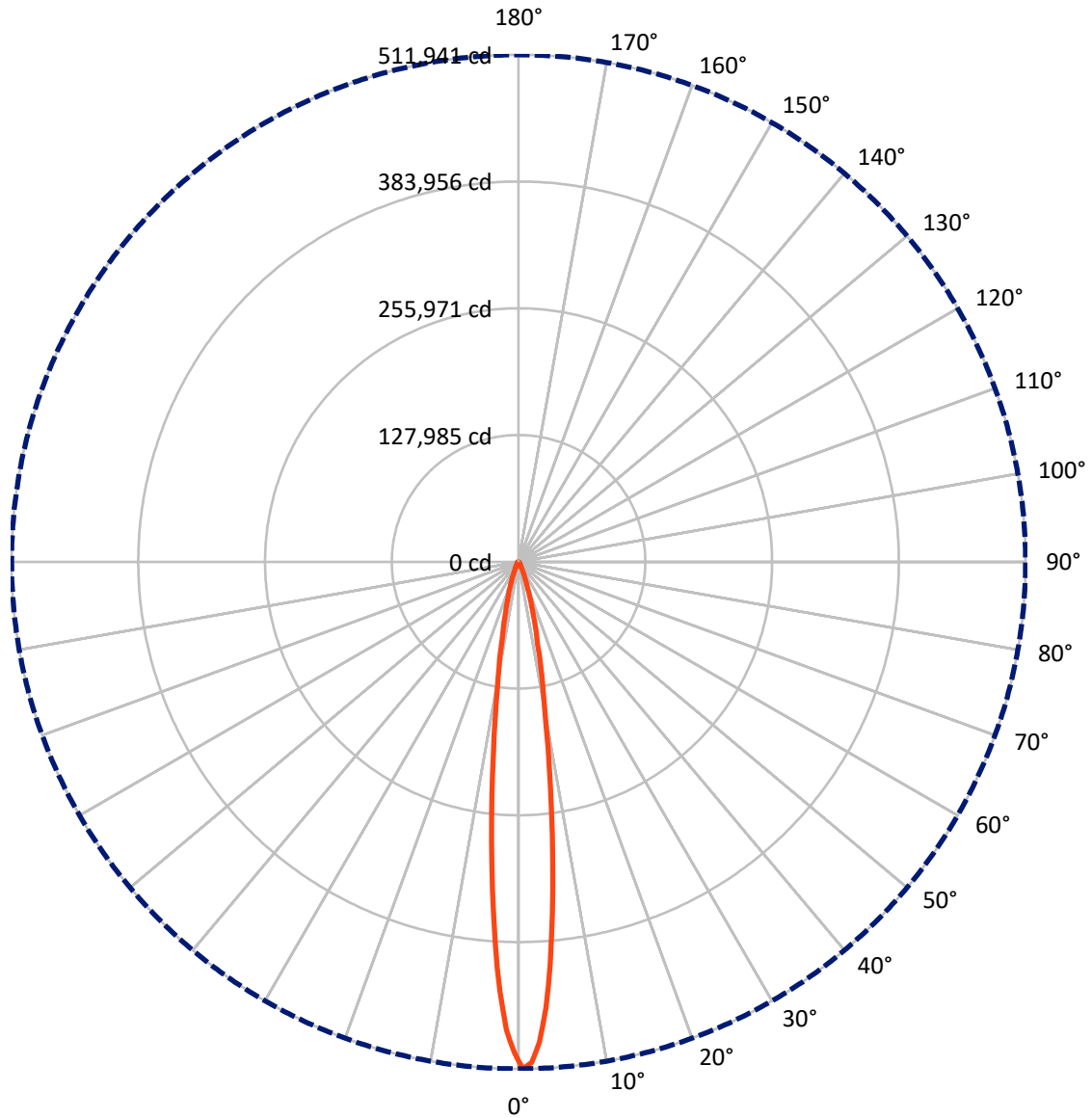
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1279.9 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	26396.9	0.0	26396.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	25141.3	0.0	25141.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	51538.2	0.0	51538.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26018.0	50.5
10°-20°	16656.6	32.3
20°-30°	5006.6	9.7
30°-40°	1630.2	3.2
40°-50°	948.5	1.8
50°-60°	630.0	1.2
60°-70°	379.2	0.7
70°-80°	194.9	0.4
80°-90°	74.0	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°	51538.2	100.0
0°-180°	51538.2	100.0

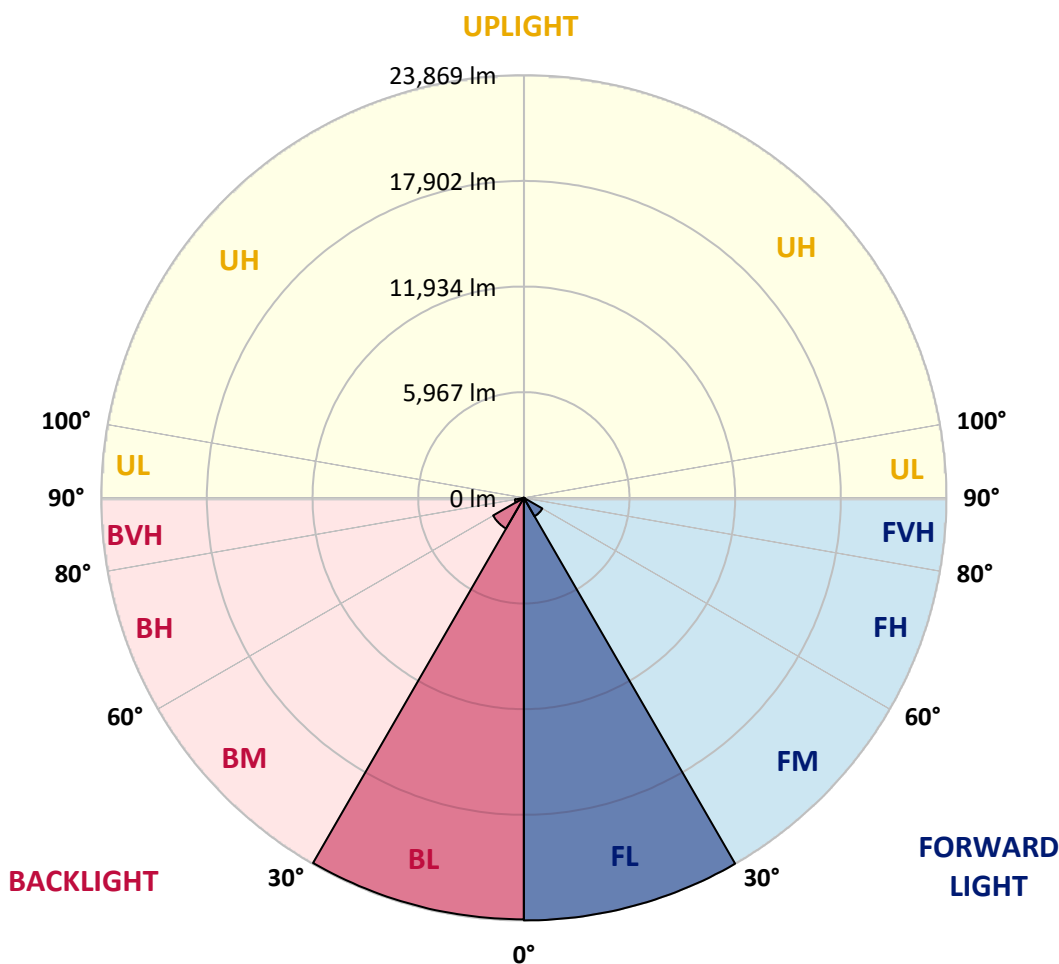


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23868.9	46.3			
FM (30°-60°)	1204.5	2.3			
FH (60°-80°)	56.7	0.1			G0/660
FVH (80°-90°)	11.2	0.0			G1/100
BL (0°-30°)	23812.4	46.2	B5		
BM (30°-60°)	2004.2	3.9	B2/2500		
BH (60°-80°)	517.5	1.0	B2/1000		G0/660
BVH (80°-90°)	62.9	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°	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4
1°	505811.7	504268.0	500282.5	503117.3	505609.6	504885.5	504835.0	504565.5	504189.4	507142.0
2°	485592.5	484593.3	478699.3	481129.9	484671.9	482089.7	483706.4	482286.2	482314.3	485839.4
3°	451508.3	452052.8	442650.5	447068.2	451991.1	445732.2	447674.4	451323.1	447500.4	446349.7
4°	407207.9	402481.5	397345.3	401835.9	403110.2	399467.1	403048.4	407516.6	402206.4	402442.2
5°	356631.8	353140.3	347061.1	349834.0	346673.7	347824.5	353190.8	355032.0	351327.2	346662.5
6°	304629.9	302148.8	294548.3	298545.0	297422.4	296771.2	303546.5	297933.2	299954.0	297130.5
7°	253391.4	248754.8	245021.9	248850.2	249097.2	247138.1	255934.2	254912.6	251235.9	250382.6
8°	209938.6	205313.2	202152.9	205004.5	206868.1	203792.0	207929.0	210645.9	207771.8	208030.1
9°	169326.1	168512.2	164117.0	167844.2	169870.6	166575.6	171156.1	172138.4	169449.6	170757.5
10°	139031.0	138082.3	134574.0	136084.0	139440.8	135511.4	139906.7	140226.6	138082.3	138694.2
12.5°	85917.7	85535.9	85440.5	85659.4	85614.5	86310.6	87433.2	86153.4	85985.0	83868.8
15°	55532.7	56099.6	55515.8	56638.5	56801.3	57458.1	56773.2	55740.4	53770.1	52793.4
17.5°	34656.7	35380.8	36380.0	38024.7	39669.4	39860.3	38950.9	37738.4	36784.2	35740.1
20°	19938.6	20292.2	20140.6	22110.9	26365.8	27522.2	26349.0	25074.8	23924.0	22868.7
22.5°	12388.6	12259.5	12495.3	13157.6	14544.1	18119.8	17160.0	15885.7	15049.3	14179.3
25°	7594.8	7735.2	7645.4	8010.2	8633.3	10148.9	10367.8	9817.7	9391.1	8942.0
27.5°	4889.2	4889.2	4928.5	5130.6	5557.2	5506.7	6674.3	6247.6	6017.5	5798.6
30°	3396.1	3407.3	3407.3	3525.2	3620.6	3452.2	3755.3	4305.4	4198.8	4030.4
32.5°	2520.4	2554.1	2582.1	2643.9	2565.3	2385.7	2458.6	3098.6	3036.8	2975.1
35°	1919.8	1947.8	2015.2	2048.9	1936.6	1824.3	1757.0	2279.0	2307.1	2290.2
37.5°	1397.7	1414.6	1538.1	1667.2	1538.1	1437.0	1397.7	1751.4	1886.1	1869.2
40°	1072.1	1077.8	1100.2	1246.2	1246.2	1167.6	1178.8	1307.9	1543.7	1543.7
42.5°	920.6	920.6	943.0	920.6	926.2	1010.4	1038.5	1055.3	1307.9	1307.9
45°	797.1	797.1	808.3	752.2	696.1	870.1	892.5	898.1	1100.2	1128.3
47.5°	668.0	668.0	690.4	617.5	589.4	690.4	752.2	769.0	948.7	971.1
50°	494.0	499.6	566.9	505.2	522.0	533.3	651.1	662.4	802.7	853.2
52.5°	331.2	331.2	342.4	392.9	454.7	437.8	527.7	566.9	639.9	707.3
55°	269.4	269.4	263.8	252.6	336.8	364.9	387.3	471.5	522.0	606.2
57.5°	185.2	196.5	179.6	207.7	218.9	275.1	291.9	370.5	398.5	510.8
60°	22.5	28.1	39.3	151.6	145.9	185.2	218.9	291.9	325.6	392.9
62.5°	5.6	5.6	11.2	28.1	101.0	123.5	174.0	202.1	235.8	303.1
65°	0.0	0.0	5.6	11.2	22.5	67.4	89.8	117.9	168.4	213.3
67.5°	0.0	0.0	5.6	11.2	11.2	28.1	44.9	73.0	89.8	157.2
70°	0.0	0.0	5.6	11.2	11.2	22.5	28.1	33.7	61.7	84.2
72.5°	0.0	0.0	5.6	11.2	16.8	22.5	28.1	28.1	28.1	56.1
75°	0.0	0.0	5.6	11.2	16.8	22.5	28.1	28.1	22.5	22.5
77.5°	0.0	0.0	5.6	11.2	22.5	28.1	33.7	28.1	16.8	16.8
80°	0.0	0.0	5.6	16.8	28.1	39.3	44.9	33.7	16.8	11.2
82.5°	0.0	0.0	11.2	22.5	33.7	44.9	61.7	50.5	22.5	11.2
85°	0.0	0.0	5.6	16.8	33.7	44.9	89.8	61.7	28.1	5.6
87.5°	0.0	0.0	0.0	5.6	5.6	11.2	33.7	22.5	11.2	5.6
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°
511941.4	0°	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4	511941.4
503734.7	1°	507254.3	507607.9	506451.6	508242.3	507613.6	503931.2	502713.1	501270.5
483768.1	2°	482286.2	484088.1	484177.9	486165.0	486137.0	481842.8	480512.4	482965.4
448684.8	3°	447326.4	449425.8	447534.1	451064.9	450003.9	444794.8	443442.0	446226.2
404305.8	4°	403098.9	402700.4	402049.2	400039.7	402515.2	398961.9	396284.4	400062.1
352848.4	5°	352141.1	351254.2	349985.6	349390.6	351231.8	348958.4	343451.7	348969.6
302238.6	6°	302609.1	298792.0	298606.8	298275.6	298460.8	292095.3	292477.0	296586.0
247446.9	7°	250062.7	250764.4	249333.0	251628.8	249877.4	245566.4	243904.9	248232.7
209164.0	8°	207704.5	206817.6	205723.0	209152.7	206115.9	203286.8	201350.2	204768.7
170970.8	9°	170650.9	169118.4	168007.0	167833.0	168304.5	162994.3	164072.1	166659.8
139031.0	10°	139081.5	136566.7	137178.6	137341.4	136825.0	133344.7	133378.4	134270.9
85272.1	12.5°	84969.0	83734.1	84042.8	84211.2	85260.9	84037.2	82308.3	81062.1
53764.5	15°	53405.2	52518.3	54331.4	55549.5	55302.5	54213.6	53399.6	52271.3
35740.1	17.5°	35408.9	36570.9	36576.5	37687.9	37800.2	36711.2	36082.5	35066.5
23244.8	20°	23160.6	23643.4	24648.1	25434.0	25888.7	25057.9	24305.7	23609.7
14493.6	22.5°	14493.6	15335.6	15964.3	16985.9	17401.3	16795.1	16261.8	15694.9
9048.7	25°	8897.1	9497.8	10019.8	10906.7	11473.6	11181.8	10693.4	10294.8
5843.5	27.5°	5933.3	6185.9	6444.1	7056.0	7645.4	7482.6	7286.1	7044.7
4120.2	30°	4181.9	4204.4	4479.4	4821.9	5214.8	5315.8	5226.0	5102.5
3025.6	32.5°	3081.7	3171.5	3300.6	3513.9	3777.8	4019.1	3974.2	3918.1
2312.7	35°	2380.1	2514.8	2621.4	2784.2	2924.5	3154.7	3194.0	3177.1
1902.9	37.5°	1942.2	2060.1	2166.7	2262.2	2380.1	2537.2	2660.7	2666.3
1571.7	40°	1611.0	1717.7	1858.0	1931.0	2015.2	2133.1	2284.6	2295.9
1330.4	42.5°	1358.4	1459.5	1599.8	1689.6	1751.4	1863.6	2015.2	2037.6
1139.5	45°	1167.6	1229.3	1375.3	1481.9	1543.7	1616.6	1779.4	1801.9
982.3	47.5°	1016.0	1077.8	1167.6	1319.1	1375.3	1442.6	1571.7	1611.0
870.1	50°	892.5	954.3	1032.9	1167.6	1251.8	1307.9	1414.6	1470.7
757.8	52.5°	791.5	853.2	937.4	1044.1	1139.5	1190.0	1291.1	1364.0
617.5	55°	662.4	769.0	830.8	926.2	1055.3	1100.2	1178.8	1274.2
538.9	57.5°	578.2	668.0	757.8	836.4	965.5	1021.6	1100.2	1190.0
426.6	60°	488.4	572.6	679.2	746.6	870.1	943.0	1027.2	1111.4
325.6	62.5°	387.3	499.6	572.6	668.0	785.9	881.3	948.7	1032.9
252.6	65°	286.3	409.8	494.0	595.0	707.3	808.3	864.5	954.3
179.6	67.5°	207.7	320.0	421.0	516.4	623.1	724.1	780.3	858.8
112.3	70°	162.8	235.8	348.0	432.2	544.5	628.7	690.4	741.0
73.0	72.5°	95.4	179.6	280.7	376.1	477.1	533.3	578.2	623.1
33.7	75°	61.7	140.3	230.1	314.3	387.3	437.8	477.1	516.4
16.8	77.5°	39.3	101.0	185.2	263.8	297.5	359.3	392.9	415.4
11.2	80°	22.5	78.6	162.8	213.3	241.4	280.7	314.3	342.4
11.2	82.5°	16.8	67.4	134.7	179.6	179.6	224.5	241.4	241.4
5.6	85°	11.2	56.1	106.7	168.4	134.7	168.4	157.2	157.2
5.6	87.5°	11.2	39.3	50.5	73.0	61.7	73.0	73.0	84.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
511941.4  
495556.1  
472575.1  
433860.0  
386388.1  
334431.1  
284674.5  
236461.6  
195007.1  
158576.6  
128197.3  
80304.3  
51693.2  
34813.9  
23368.3  
15391.8  
10064.7  
6904.4  
5018.3  
3873.2  
3121.0  
2627.0  
2279.0  
2020.8  
1796.3  
1616.6  
1476.3  
1364.0  
1279.8  
1195.6  
1133.9  
1072.1  
971.1  
864.5  
757.8  
634.3  
516.4  
404.2  
308.7  
224.5  
151.6  
84.2  
0.0

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