

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: P637327

Luminaire Tested: **IFLD-S-SA6A-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637327  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23704.1 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

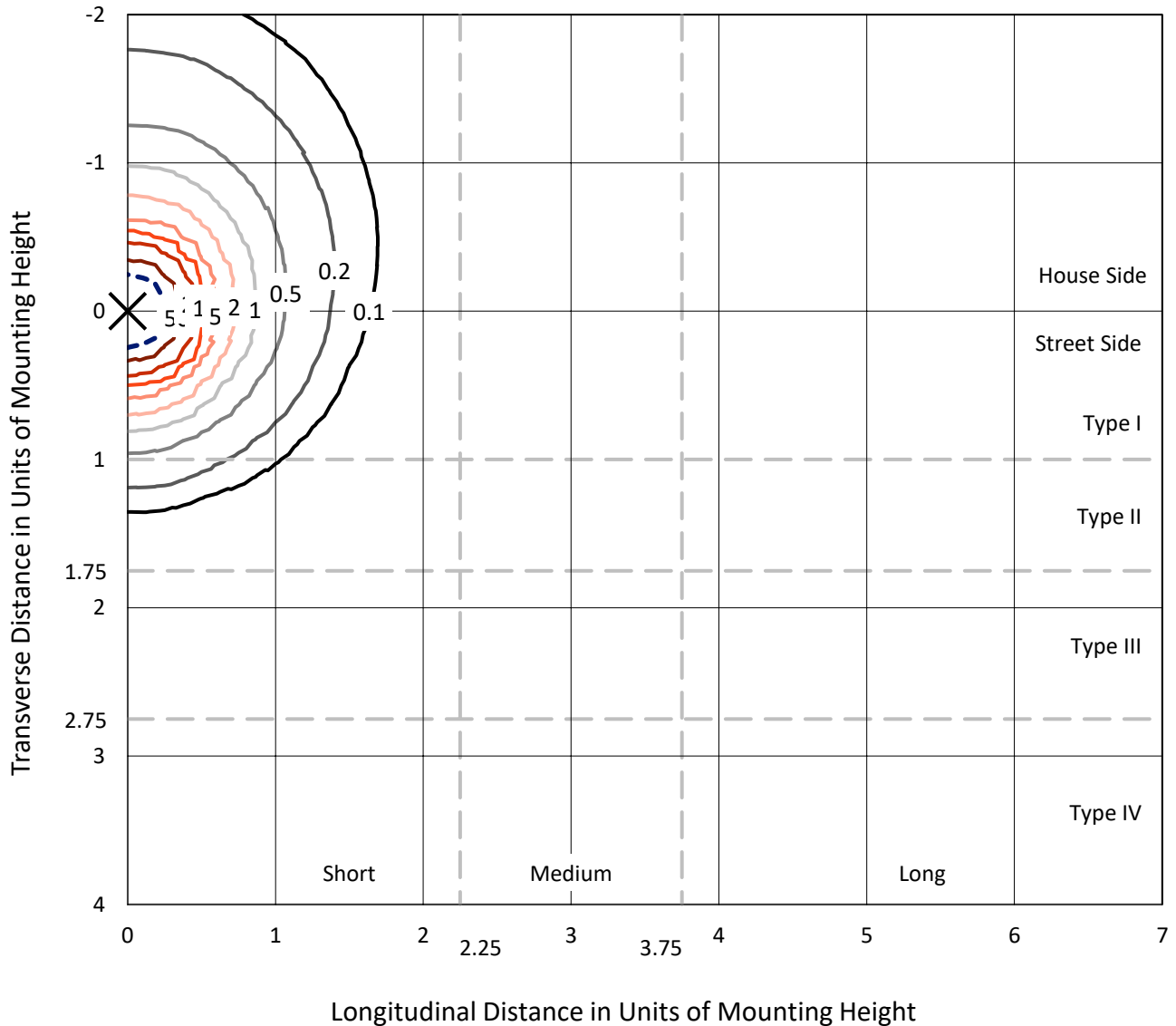
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

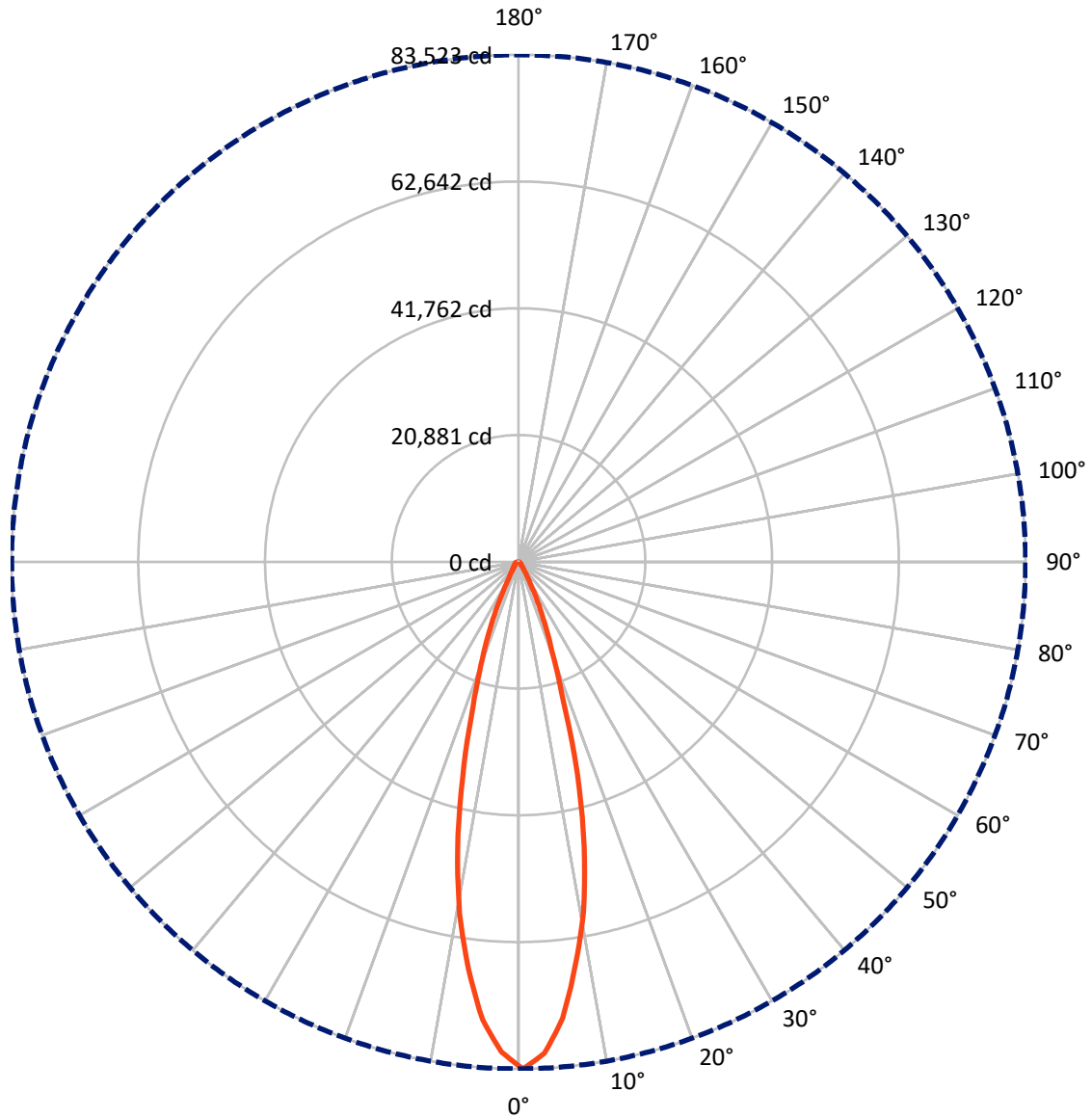
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 208.8 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	12498.4	0.0	12498.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	11205.7	0.0	11205.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	23704.1	0.0	23704.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6741.1	28.4
10°-20°	10209.3	43.1
20°-30°	4308.4	18.2
30°-40°	1123.7	4.7
40°-50°	568.3	2.4
50°-60°	371.5	1.6
60°-70°	222.6	0.9
70°-80°	117.1	0.5
80°-90°	42.3	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°	23704.1	100.0
0°-180°	23704.1	100.0

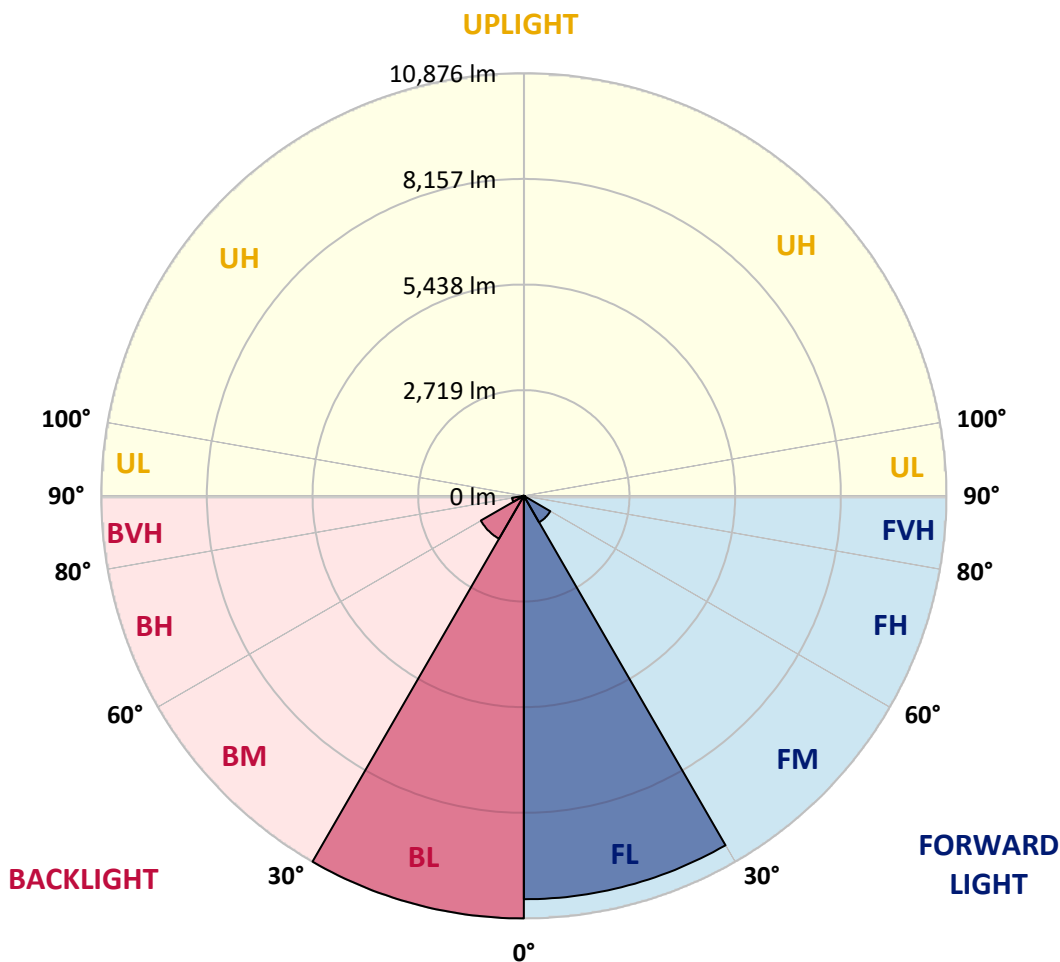


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10382.3	43.8			
FM (30°-60°)	786.3	3.3			
FH (60°-80°)	32.0	0.1			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	10876.5	45.9	B5		
BM (30°-60°)	1277.2	5.4	B2/2500		
BH (60°-80°)	307.6	1.3	B1/500		G0/660
BVH (80°-90°)	37.1	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	83523.1	83523.1	83523.1	83523.1	83523.1	83523.1	83523.1	83523.1	83523.1	83523.1
2.5°	81090.1	81135.3	80967.6	81329.6	81047.5	81803.5	81428.1	82013.8	81816.8	82144.2
5°	75553.1	75478.5	75430.6	75992.3	75829.9	76641.8	76122.8	75952.4	76479.5	76383.6
7.5°	67191.7	67388.7	67276.9	67423.3	67505.8	68432.2	68725.0	68496.1	68504.1	68637.2
10°	58620.1	58329.9	57917.3	58191.5	58771.8	59176.4	59014.0	59349.4	59274.9	59591.7
12.5°	48073.2	48302.1	48070.5	47825.6	48839.8	48728.0	49010.2	49193.9	48733.4	49758.2
15°	36211.3	36331.1	36613.2	36594.6	37374.6	37531.6	37494.4	37688.7	37329.3	37499.7
17.5°	23263.3	23667.9	24426.6	25709.7	27152.5	27320.2	27277.6	27117.9	26944.8	26753.2
20°	15626.0	15583.4	15857.6	16232.9	19219.7	20010.3	19986.3	19485.9	18761.8	18623.4
22.5°	10946.2	11026.0	10988.8	11361.4	11979.0	14159.2	13890.4	13381.9	13145.0	12990.6
25°	7200.7	7171.4	7357.8	7469.6	7999.3	8265.5	9207.9	9018.9	8654.2	8694.1
27.5°	4389.6	4426.9	4496.1	4592.0	4967.3	4882.1	5419.8	5491.7	5374.6	5249.5
30°	2694.0	2720.6	2776.5	2845.7	2976.1	2883.0	3032.0	3290.2	3247.6	3159.8
32.5°	1828.8	1831.5	1871.4	1898.0	1882.0	1794.2	1842.1	2087.0	2092.3	2084.4
35°	1315.0	1315.0	1352.3	1373.6	1328.3	1256.5	1264.5	1416.2	1482.7	1496.0
37.5°	907.7	910.4	974.3	1038.2	987.6	969.0	937.0	1038.2	1144.7	1160.6
40°	689.5	686.8	718.7	766.7	772.0	737.4	748.0	811.9	921.1	934.4
42.5°	559.0	561.7	577.7	572.3	575.0	620.2	636.2	665.5	766.7	790.6
45°	471.2	473.8	481.8	455.2	444.6	513.8	535.1	551.0	636.2	665.5
47.5°	388.7	394.0	402.0	372.7	367.4	412.6	449.9	465.9	540.4	572.3
50°	279.5	284.8	314.1	298.1	314.1	324.8	375.3	399.3	449.9	492.5
52.5°	202.3	207.6	215.6	218.3	258.2	263.5	300.8	338.1	362.0	409.9
55°	159.7	165.0	159.7	154.4	189.0	218.3	231.6	271.5	290.2	346.1
57.5°	90.5	95.8	103.8	119.8	125.1	167.7	181.0	215.6	231.6	284.8
60°	16.0	18.6	29.3	71.9	87.8	106.5	135.8	165.0	186.3	223.6
62.5°	2.7	2.7	5.3	16.0	50.6	74.5	98.5	117.1	135.8	170.4
65°	0.0	0.0	2.7	5.3	13.3	42.6	53.2	69.2	93.2	122.5
67.5°	0.0	0.0	2.7	5.3	8.0	16.0	24.0	42.6	53.2	82.5
70°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	18.6	31.9	50.6
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	16.0	16.0	31.9
75°	0.0	0.0	2.7	5.3	8.0	13.3	16.0	16.0	13.3	13.3
77.5°	0.0	0.0	2.7	5.3	10.6	16.0	18.6	16.0	10.6	10.6
80°	0.0	0.0	5.3	8.0	13.3	18.6	24.0	18.6	10.6	5.3
82.5°	0.0	0.0	5.3	10.6	13.3	21.3	29.3	24.0	10.6	5.3
85°	0.0	0.0	2.7	8.0	16.0	21.3	29.3	21.3	10.6	2.7
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	16.0	13.3	5.3	2.7
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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 CATALOG NUMBER: IFLD-S-SA6A-730-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
<b>83523.1</b>	0°	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>	<b>83523.1</b>
81524.0	2.5°	81992.5	82418.4	82506.2	82389.1	82559.5	82253.4	82019.1	81412.2	81047.5
76354.3	5°	76846.8	76782.9	77227.5	77373.9	77355.3	77121.0	76793.6	76426.2	76069.5
68379.0	7.5°	68804.9	68887.4	69292.0	69550.3	69419.8	69127.0	68900.7	68623.9	68384.3
59706.2	10°	60251.9	59684.9	60188.0	60188.0	60536.7	59708.8	59786.0	59088.6	59120.5
49739.6	12.5°	49910.0	50114.9	50197.5	50434.4	50027.1	49587.9	49050.1	48943.7	48610.9
37174.9	15°	37710.0	38295.6	37792.5	38652.3	38237.1	37779.2	37696.7	36871.5	37132.3
26963.5	17.5°	26830.4	27477.2	27679.5	28172.0	27794.0	27522.5	27179.1	26928.9	26910.2
18876.3	20°	19025.4	19674.9	19824.0	20414.9	20372.3	20287.2	19997.0	19680.2	19336.8
12849.5	22.5°	13043.8	13573.6	14068.7	14864.6	14851.3	14601.1	14571.8	14124.6	14132.6
8680.8	25°	8771.3	9157.3	9274.4	10089.0	10179.5	10152.9	10001.2	9585.9	9742.9
5302.7	27.5°	5308.0	5646.1	6042.8	6330.3	6601.8	6559.2	6407.5	6175.9	6074.7
3186.4	30°	3271.6	3423.3	3569.8	3915.8	4078.2	4163.4	4091.5	3875.9	3891.9
2097.7	32.5°	2142.9	2270.7	2377.2	2595.5	2680.6	2837.7	2808.4	2763.2	2709.9
1509.4	35°	1562.6	1655.8	1727.6	1828.8	1937.9	2071.0	2092.3	2073.7	2052.4
1166.0	37.5°	1192.6	1288.4	1370.9	1413.5	1498.7	1602.5	1661.1	1658.4	1642.5
950.3	40°	969.0	1040.8	1115.4	1171.3	1229.8	1307.0	1378.9	1386.9	1386.9
798.6	42.5°	809.3	870.5	945.0	1003.6	1046.2	1118.0	1192.6	1197.9	1192.6
676.1	45°	692.1	745.4	817.2	886.4	921.1	974.3	1046.2	1062.1	1051.5
580.3	47.5°	601.6	649.5	710.8	785.3	822.6	870.5	937.0	955.7	953.0
500.5	50°	516.4	572.3	633.6	694.8	742.7	788.0	851.8	873.1	865.2
425.9	52.5°	455.2	505.8	559.0	625.6	681.5	721.4	772.0	809.3	798.6
359.4	55°	380.7	441.9	497.8	553.7	622.9	665.5	713.4	758.7	748.0
303.5	57.5°	330.1	380.7	444.6	495.1	564.3	614.9	662.8	710.8	708.1
247.6	60°	276.8	330.1	391.3	444.6	508.4	564.3	612.3	665.5	670.8
186.3	62.5°	218.3	282.2	335.4	396.6	460.5	521.8	564.3	617.6	625.6
141.1	65°	165.0	231.6	290.2	348.7	412.6	479.2	516.4	561.7	569.7
103.8	67.5°	122.5	178.4	247.6	300.8	367.4	431.2	465.9	503.1	516.4
63.9	70°	93.2	135.8	207.6	258.2	327.4	378.0	415.3	447.2	457.9
42.6	72.5°	58.6	106.5	167.7	220.9	282.2	327.4	354.0	372.7	388.7
24.0	75°	39.9	82.5	135.8	189.0	234.3	268.9	292.8	308.8	322.1
10.6	77.5°	24.0	63.9	111.8	157.1	186.3	213.0	236.9	247.6	255.6
8.0	80°	13.3	47.9	93.2	127.8	146.4	165.0	183.7	197.0	202.3
5.3	82.5°	8.0	37.3	74.5	98.5	106.5	125.1	143.7	151.7	151.7
2.7	85°	5.3	26.6	50.6	71.9	77.2	90.5	95.8	101.2	106.5
2.7	87.5°	5.3	16.0	31.9	39.9	42.6	47.9	50.6	55.9	61.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
83523.1  
80778.6  
75670.2  
67572.4  
58809.1  
48307.4  
36871.5  
26415.1  
19187.7  
13978.2  
9495.4  
5986.9  
3822.6  
2691.3  
2044.4  
1634.5  
1370.9  
1187.3  
1051.5  
947.7  
859.8  
795.9  
753.3  
710.8  
673.5  
630.9  
577.7  
521.8  
463.2  
386.0  
319.4  
252.9  
197.0  
149.1  
103.8  
58.6  
0.0

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