

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: P637215

Luminaire Tested: **IFLD-S-SA6E-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637215  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38681.7 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

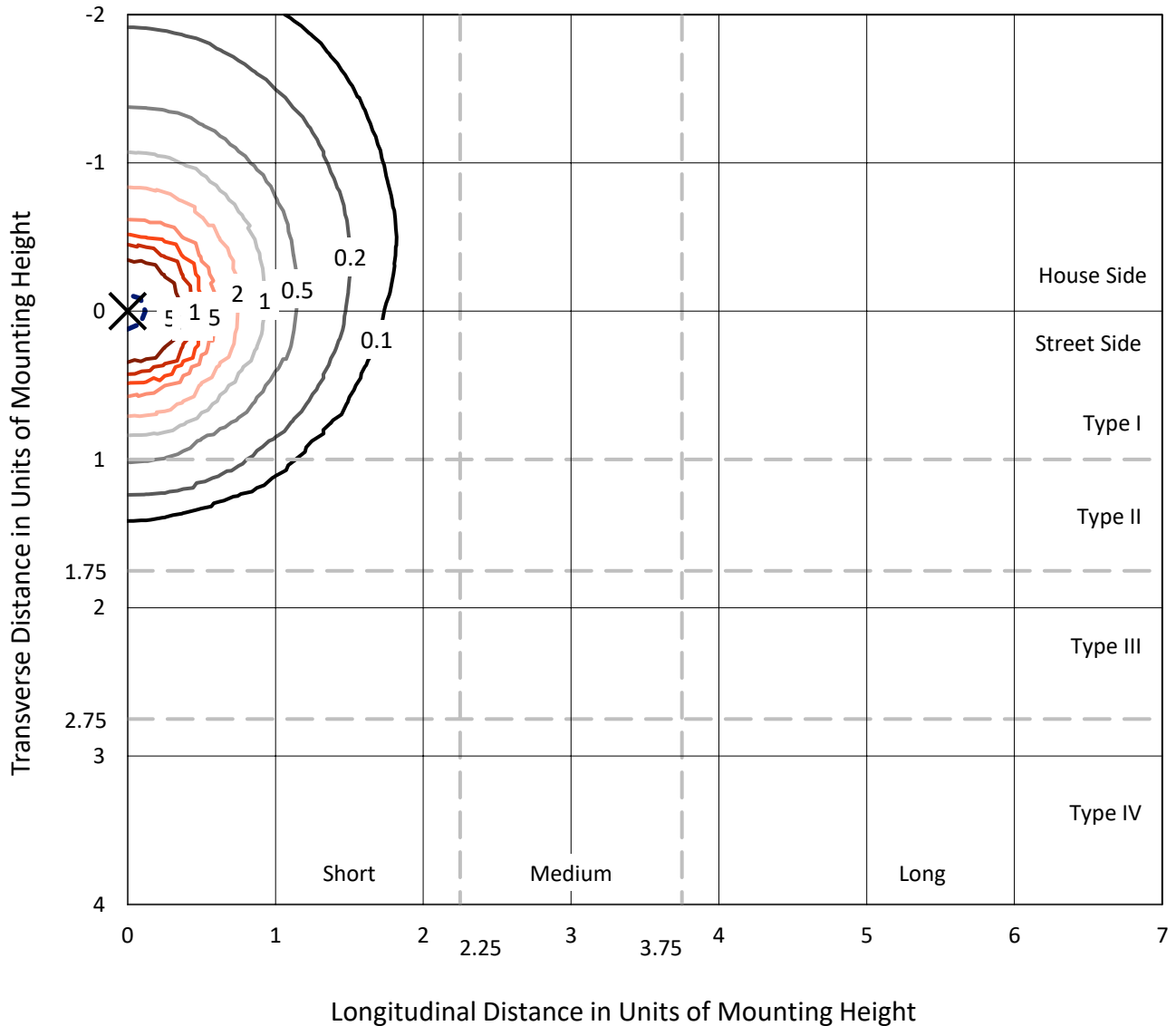
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

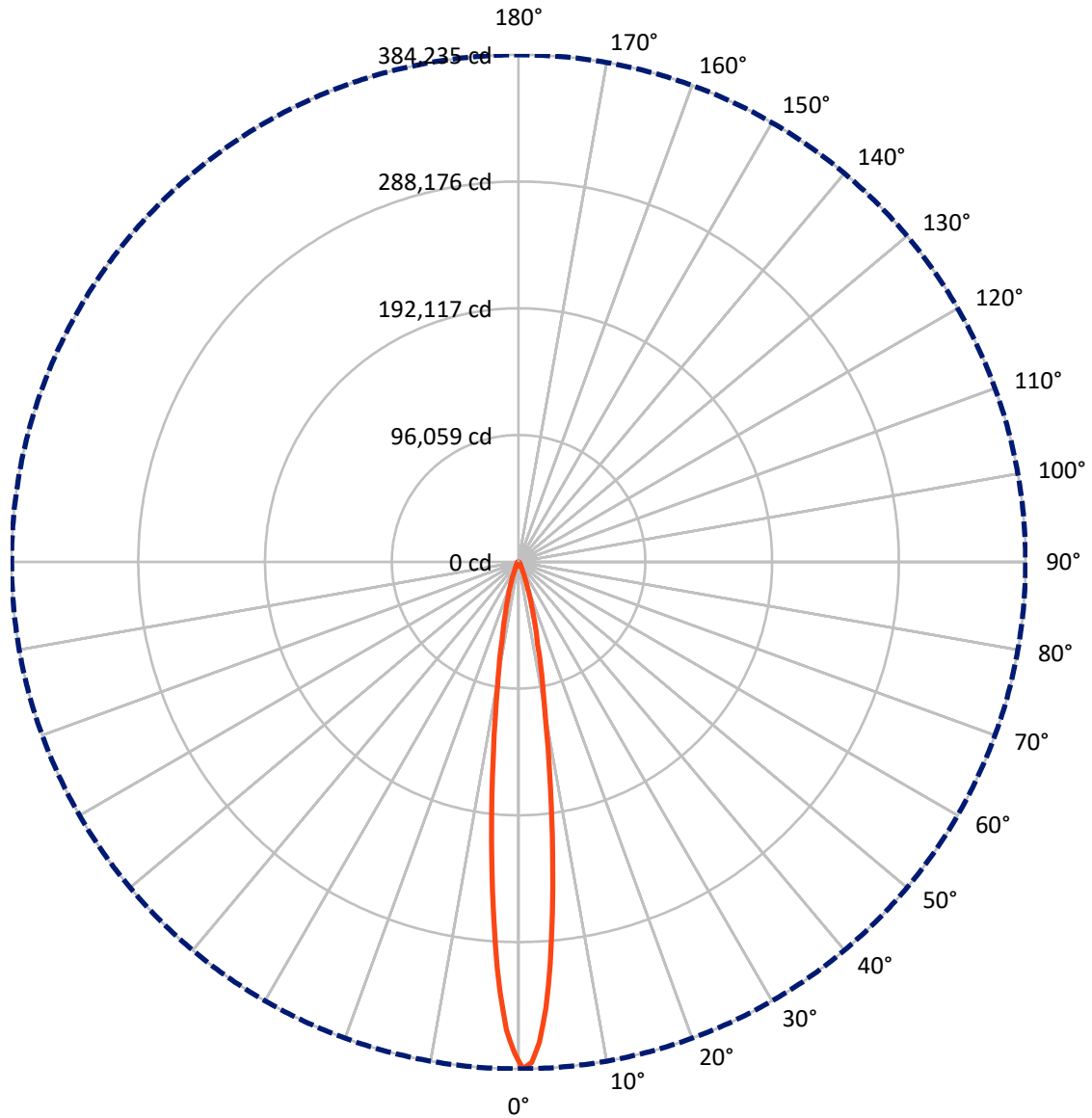
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 960.6 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	19812.0	0.0	19812.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	18869.6	0.0	18869.6
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	38681.7	0.0	38681.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19527.7	50.5
10°-20°	12501.5	32.3
20°-30°	3757.7	9.7
30°-40°	1223.5	3.2
40°-50°	711.9	1.8
50°-60°	472.9	1.2
60°-70°	284.6	0.7
70°-80°	146.3	0.4
80°-90°	55.6	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°	38681.7	100.0
0°-180°	38681.7	100.0

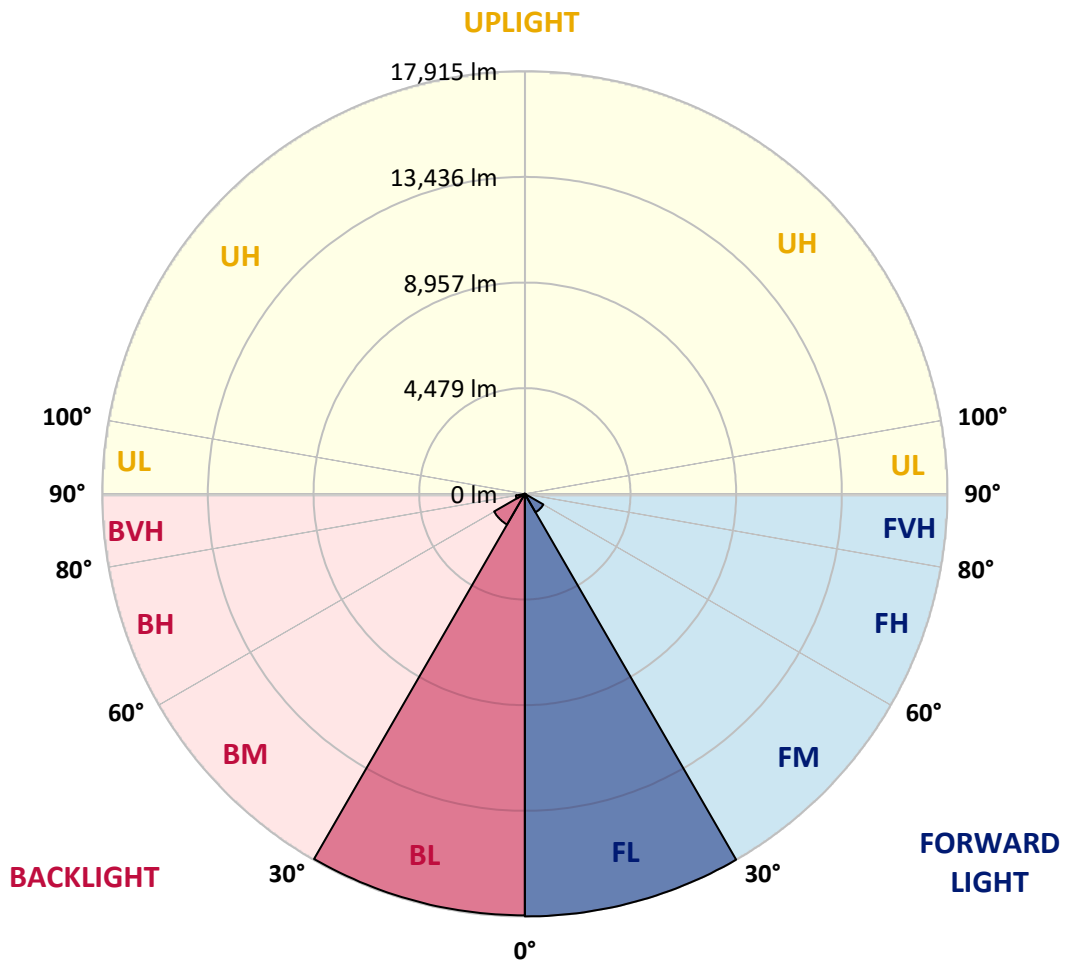


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17914.7	46.3			
FM (30°-60°)	904.0	2.3			
FH (60°-80°)	42.6	0.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	17872.2	46.2	B5		
BM (30°-60°)	1504.2	3.9	B2/2500		
BH (60°-80°)	388.4	1.0	B1/500		G0/660
BVH (80°-90°)	47.2	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°	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6
1°	379633.9	378475.3	375484.1	377611.7	379482.2	378938.8	378900.8	378698.6	378416.3	380632.4
2°	364458.5	363708.6	359284.9	361109.1	363767.6	361829.6	363042.9	361977.0	361998.1	364643.9
3°	338876.9	339285.5	332228.7	335544.3	339239.2	334541.6	335999.3	338737.8	335868.7	335005.1
4°	305627.4	302080.1	298225.1	301595.6	302551.9	299817.6	302505.6	305859.2	301873.6	302050.6
5°	267667.8	265047.3	260484.6	262565.8	260193.9	261057.6	265085.2	266467.1	263686.5	260185.5
6°	228638.1	226776.0	221071.5	224071.2	223228.6	222739.9	227825.0	223612.0	225128.7	223009.5
7°	190181.4	186701.4	183899.7	186773.0	186958.4	185488.0	192089.9	191323.1	188563.6	187923.2
8°	157568.2	154096.6	151724.6	153864.9	155263.6	152954.9	156059.9	158099.0	155941.9	156135.7
9°	127086.7	126475.8	123177.0	125974.5	127495.4	125022.3	128460.2	129197.5	127179.4	128161.0
10°	104348.9	103636.9	101003.7	102137.0	104656.4	101707.3	105006.1	105246.3	103636.9	104096.1
12.5°	64485.0	64198.5	64126.9	64291.2	64257.5	64779.9	65622.5	64661.9	64535.5	62947.2
15°	41679.7	42105.2	41667.1	42509.7	42631.9	43124.8	42610.8	41835.6	40356.8	39623.8
17.5°	26011.4	26554.9	27304.8	28539.2	29773.6	29916.9	29234.4	28324.3	27608.1	26824.5
20°	14964.8	15230.2	15116.4	16595.2	19788.7	20656.6	19776.1	18819.7	17956.0	17164.0
22.5°	9298.2	9201.3	9378.3	9875.4	10916.0	13599.7	12879.3	11922.9	11295.2	10642.2
25°	5700.3	5805.6	5738.2	6012.0	6479.7	7617.2	7781.5	7368.6	7048.4	6711.4
27.5°	3669.6	3669.6	3699.1	3850.7	4170.9	4133.0	5009.3	4689.1	4516.4	4352.1
30°	2548.9	2557.3	2557.3	2645.8	2717.4	2591.0	2818.5	3231.4	3151.4	3025.0
32.5°	1891.7	1916.9	1938.0	1984.3	1925.4	1790.5	1845.3	2325.6	2279.3	2232.9
35°	1440.9	1461.9	1512.5	1537.8	1453.5	1369.2	1318.7	1710.5	1731.6	1718.9
37.5°	1049.0	1061.7	1154.4	1251.3	1154.4	1078.5	1049.0	1314.5	1415.6	1402.9
40°	804.7	808.9	825.8	935.3	935.3	876.3	884.7	981.6	1158.6	1158.6
42.5°	690.9	690.9	707.8	690.9	695.2	758.3	779.4	792.1	981.6	981.6
45°	598.3	598.3	606.7	564.5	522.4	653.0	669.9	674.1	825.8	846.8
47.5°	501.4	501.4	518.2	463.4	442.4	518.2	564.5	577.2	712.0	728.9
50°	370.7	375.0	425.5	379.2	391.8	400.2	488.7	497.1	602.5	640.4
52.5°	248.6	248.6	257.0	294.9	341.3	328.6	396.0	425.5	480.3	530.8
55°	202.2	202.2	198.0	189.6	252.8	273.8	290.7	353.9	391.8	455.0
57.5°	139.0	147.5	134.8	155.9	164.3	206.4	219.1	278.1	299.1	383.4
60°	16.9	21.1	29.5	113.8	109.5	139.0	164.3	219.1	244.4	294.9
62.5°	4.2	4.2	8.4	21.1	75.8	92.7	130.6	151.7	176.9	227.5
65°	0.0	0.0	4.2	8.4	16.9	50.6	67.4	88.5	126.4	160.1
67.5°	0.0	0.0	4.2	8.4	8.4	21.1	33.7	54.8	67.4	118.0
70°	0.0	0.0	4.2	8.4	8.4	16.9	21.1	25.3	46.3	63.2
72.5°	0.0	0.0	4.2	8.4	12.6	16.9	21.1	21.1	21.1	42.1
75°	0.0	0.0	4.2	8.4	12.6	16.9	21.1	21.1	16.9	16.9
77.5°	0.0	0.0	4.2	8.4	16.9	21.1	25.3	21.1	12.6	12.6
80°	0.0	0.0	4.2	12.6	21.1	29.5	33.7	25.3	12.6	8.4
82.5°	0.0	0.0	8.4	16.9	25.3	33.7	46.3	37.9	16.9	8.4
85°	0.0	0.0	4.2	12.6	25.3	33.7	67.4	46.3	21.1	4.2
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	25.3	16.9	8.4	4.2
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°
384234.6	0°	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6	384234.6
378075.1	1°	380716.7	380982.1	380114.2	381458.2	380986.3	378222.5	377308.3	376225.6
363089.3	2°	361977.0	363329.4	363396.8	364888.2	364867.2	361644.2	360645.7	362486.8
336757.7	3°	335738.1	337313.8	335894.0	338544.0	337747.8	333838.0	332822.7	334912.4
303449.3	4°	302543.5	302244.4	301755.6	300247.4	302105.3	299438.5	297428.8	300264.2
264828.2	5°	264297.4	263631.7	262679.6	262233.0	263614.9	261908.6	257775.6	261917.0
226843.4	6°	227121.4	224256.6	224117.5	223869.0	224008.0	219230.4	219516.9	222600.8
185719.8	7°	187683.0	188209.7	187135.4	188858.5	187544.0	184308.4	183061.3	186309.6
156986.8	8°	155891.4	155225.7	154404.1	156978.3	154699.1	152575.7	151122.2	153687.9
128321.1	9°	128081.0	126930.8	126096.7	125966.0	126319.9	122334.4	123143.3	125085.5
104348.9	10°	104386.8	102499.3	102958.6	103080.7	102693.1	100081.1	100106.3	100776.2
64000.5	12.5°	63773.0	62846.1	63077.8	63204.2	63992.0	63073.6	61776.0	60840.7
40352.6	15°	40083.0	39417.3	40778.1	41692.4	41507.0	40689.7	40078.8	39231.9
26824.5	17.5°	26575.9	27448.0	27452.2	28286.4	28370.7	27553.4	27081.5	26318.9
17446.2	20°	17383.1	17745.4	18499.5	19089.3	19430.6	18807.1	18242.5	17720.1
10878.1	22.5°	10878.1	11510.1	11981.9	12748.7	13060.5	12605.5	12205.2	11779.7
6791.4	25°	6677.7	7128.5	7520.3	8186.0	8611.5	8392.4	8025.9	7726.7
4385.8	27.5°	4453.2	4642.8	4836.6	5295.8	5738.2	5616.0	5468.5	5287.4
3092.4	30°	3138.7	3155.6	3362.0	3619.0	3913.9	3989.8	3922.4	3829.7
2270.8	32.5°	2313.0	2380.4	2477.3	2637.4	2835.4	3016.5	2982.8	2940.7
1735.8	35°	1786.3	1887.4	1967.5	2089.7	2195.0	2367.7	2397.2	2384.6
1428.2	37.5°	1457.7	1546.2	1626.2	1697.9	1786.3	1904.3	1997.0	2001.2
1179.7	40°	1209.1	1289.2	1394.5	1449.3	1512.5	1601.0	1714.7	1723.1
998.5	42.5°	1019.6	1095.4	1200.7	1268.1	1314.5	1398.7	1512.5	1529.3
855.2	45°	876.3	922.7	1032.2	1112.2	1158.6	1213.4	1335.5	1352.4
737.3	47.5°	762.6	808.9	876.3	990.1	1032.2	1082.8	1179.7	1209.1
653.0	50°	669.9	716.2	775.2	876.3	939.5	981.6	1061.7	1103.8
568.8	52.5°	594.0	640.4	703.6	783.6	855.2	893.2	969.0	1023.8
463.4	55°	497.1	577.2	623.5	695.2	792.1	825.8	884.7	956.4
404.5	57.5°	433.9	501.4	568.8	627.7	724.6	766.8	825.8	893.2
320.2	60°	366.5	429.7	509.8	560.3	653.0	707.8	771.0	834.2
244.4	62.5°	290.7	375.0	429.7	501.4	589.8	661.4	712.0	775.2
189.6	65°	214.9	307.6	370.7	446.6	530.8	606.7	648.8	716.2
134.8	67.5°	155.9	240.1	316.0	387.6	467.6	543.5	585.6	644.6
84.3	70°	122.2	176.9	261.2	324.4	408.7	471.9	518.2	556.1
54.8	72.5°	71.6	134.8	210.7	282.3	358.1	400.2	433.9	467.6
25.3	75°	46.3	105.3	172.7	235.9	290.7	328.6	358.1	387.6
12.6	77.5°	29.5	75.8	139.0	198.0	223.3	269.6	294.9	311.8
8.4	80°	16.9	59.0	122.2	160.1	181.2	210.7	235.9	257.0
8.4	82.5°	12.6	50.6	101.1	134.8	134.8	168.5	181.2	181.2
4.2	85°	8.4	42.1	80.0	126.4	101.1	126.4	118.0	118.0
4.2	87.5°	8.4	29.5	37.9	54.8	46.3	54.8	54.8	63.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
384234.6  
371936.7  
354688.4  
325631.0  
290001.2  
251005.2  
213660.7  
177474.8  
146361.4  
119018.7  
96217.7  
60271.9  
38798.0  
26129.3  
17538.9  
11552.2  
7554.0  
5182.1  
3766.5  
2907.0  
2342.5  
1971.7  
1710.5  
1516.7  
1348.2  
1213.4  
1108.0  
1023.8  
960.6  
897.4  
851.0  
804.7  
728.9  
648.8  
568.8  
476.1  
387.6  
303.3  
231.7  
168.5  
113.8  
63.2  
0.0

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