

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: P637108

Luminaire Tested: **IFLD-L-SA7D-735-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637108  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-735-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47845.3 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

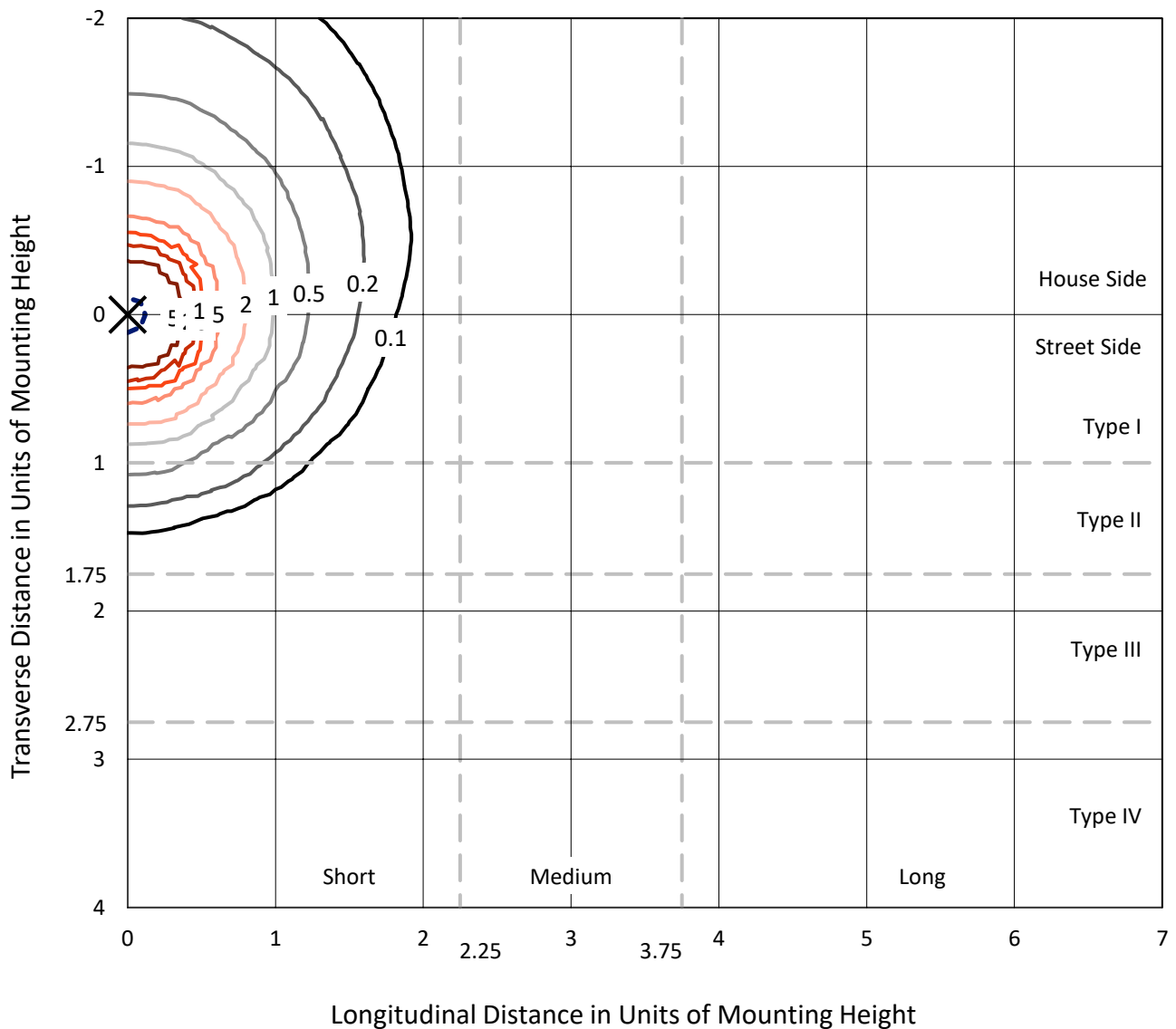
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

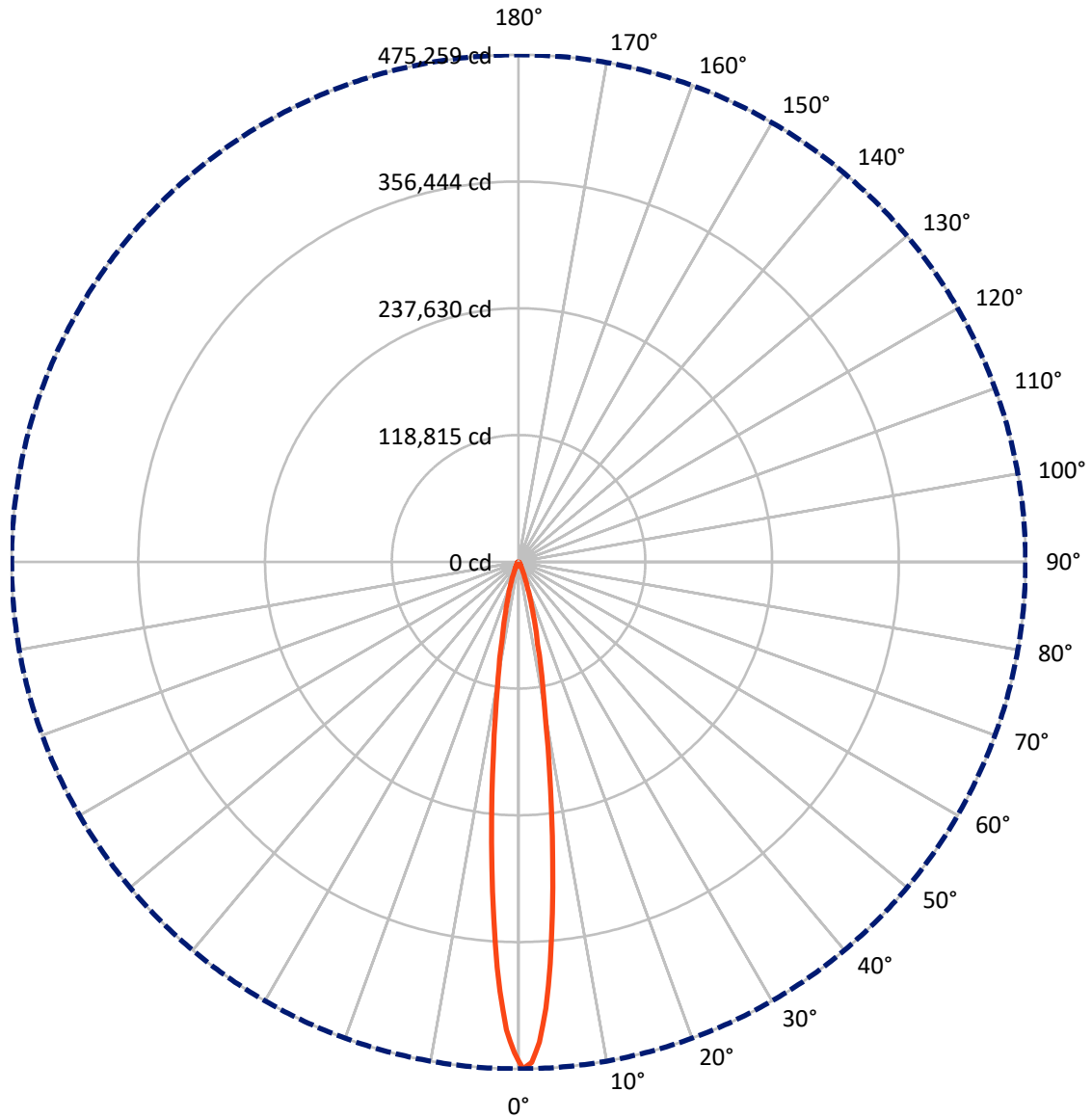
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1188.1 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
<b>House Side</b>	Lumens	24505.5	0.0	24505.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	23339.8	0.0	23339.8
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	47845.3	0.0	47845.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24153.7	50.5
10°-20°	15463.1	32.3
20°-30°	4647.9	9.7
30°-40°	1513.4	3.2
40°-50°	880.5	1.8
50°-60°	584.9	1.2
60°-70°	352.0	0.7
70°-80°	181.0	0.4
80°-90°	68.7	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°	47845.3	100.0
0°-180°	47845.3	100.0

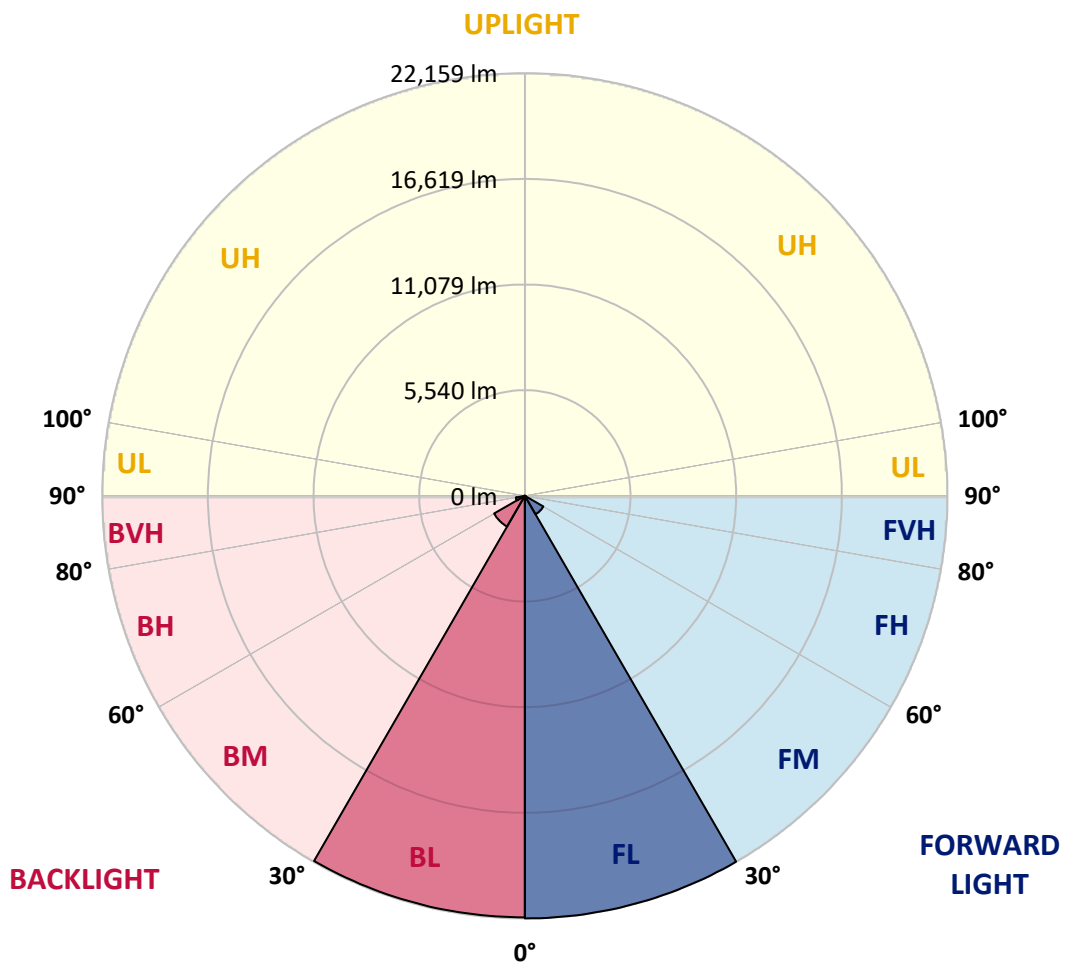


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22158.6	46.3			
FM (30°-60°)	1118.2	2.3			
FH (60°-80°)	52.6	0.1			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	22106.1	46.2	B5		
BM (30°-60°)	1860.6	3.9	B2/2500		
BH (60°-80°)	480.4	1.0	B1/500		G0/660
BVH (80°-90°)	58.4	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°	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1
1°	469568.5	468135.5	464435.6	467067.2	469380.9	468708.7	468661.8	468411.7	468062.5	470803.6
2°	450798.1	449870.5	444398.8	446655.2	449943.5	447546.3	449047.1	447728.7	447754.8	451027.4
3°	419156.2	419661.7	410933.0	415034.2	419604.3	413793.9	415597.0	418984.2	415435.4	414367.2
4°	378030.0	373642.3	368874.1	373043.0	374225.9	370843.9	374168.6	378316.7	373386.9	373605.8
5°	331077.9	327836.6	322192.9	324767.2	321833.4	322901.6	327883.5	329592.7	326153.4	321822.9
6°	282802.1	280498.8	273442.9	277153.2	276111.0	275506.5	281796.4	276585.2	278461.2	275840.0
7°	235235.0	230930.6	227465.2	231019.2	231248.5	229429.8	237595.7	236647.2	233234.0	232441.9
8°	194895.8	190601.8	187667.9	190315.2	192045.3	189189.6	193030.2	195552.4	192884.3	193124.0
9°	157193.3	156437.7	152357.4	155817.6	157698.8	154639.9	158892.2	159804.1	157308.0	158522.2
10°	129068.9	128188.3	124931.3	126333.1	129449.4	125801.6	129881.9	130178.9	128188.3	128756.3
12.5°	79761.4	79407.0	79318.4	79521.6	79480.0	80126.1	81168.4	79980.2	79823.9	77859.3
15°	51553.6	52079.9	51537.9	52580.2	52731.3	53341.0	52705.2	51746.4	49917.3	49010.6
17.5°	32173.4	32845.7	33773.2	35300.1	36827.0	37004.1	36159.9	35034.3	34148.4	33179.2
20°	18509.9	18838.2	18697.5	20526.6	24476.6	25550.1	24461.0	23278.1	22209.8	21230.1
22.5°	11500.9	11381.1	11599.9	12214.9	13502.0	16821.5	15930.4	14747.5	13971.0	13163.3
25°	7050.6	7180.9	7097.5	7436.3	8014.7	9421.7	9624.9	9114.2	8718.2	8301.3
27.5°	4538.9	4538.9	4575.4	4763.0	5159.0	5112.1	6196.0	5800.0	5586.3	5383.1
30°	3152.7	3163.1	3163.1	3272.6	3361.2	3204.8	3486.2	3996.9	3897.9	3741.6
32.5°	2339.8	2371.1	2397.1	2454.4	2381.5	2214.7	2282.5	2876.5	2819.2	2761.9
35°	1782.2	1808.3	1870.8	1902.1	1797.8	1693.6	1631.1	2115.7	2141.8	2126.1
37.5°	1297.6	1313.2	1427.8	1547.7	1427.8	1334.0	1297.6	1625.9	1750.9	1735.3
40°	995.3	1000.5	1021.4	1156.9	1156.9	1083.9	1094.3	1214.2	1433.1	1433.1
42.5°	854.6	854.6	875.5	854.6	859.8	938.0	964.1	979.7	1214.2	1214.2
45°	740.0	740.0	750.4	698.3	646.2	807.7	828.6	833.8	1021.4	1047.4
47.5°	620.1	620.1	641.0	573.2	547.2	641.0	698.3	713.9	880.7	901.5
50°	458.6	463.8	526.3	469.0	484.6	495.1	604.5	614.9	745.2	792.1
52.5°	307.5	307.5	317.9	364.8	422.1	406.5	489.8	526.3	594.1	656.6
55°	250.1	250.1	244.9	234.5	312.7	338.7	359.6	437.7	484.6	562.8
57.5°	172.0	182.4	166.8	192.8	203.2	255.3	271.0	343.9	370.0	474.2
60°	20.8	26.1	36.5	140.7	135.5	172.0	203.2	271.0	302.2	364.8
62.5°	5.2	5.2	10.4	26.1	93.8	114.6	161.5	187.6	218.9	281.4
65°	0.0	0.0	5.2	10.4	20.8	62.5	83.4	109.4	156.3	198.0
67.5°	0.0	0.0	5.2	10.4	10.4	26.1	41.7	67.7	83.4	145.9
70°	0.0	0.0	5.2	10.4	10.4	20.8	26.1	31.3	57.3	78.2
72.5°	0.0	0.0	5.2	10.4	15.6	20.8	26.1	26.1	26.1	52.1
75°	0.0	0.0	5.2	10.4	15.6	20.8	26.1	26.1	20.8	20.8
77.5°	0.0	0.0	5.2	10.4	20.8	26.1	31.3	26.1	15.6	15.6
80°	0.0	0.0	5.2	15.6	26.1	36.5	41.7	31.3	15.6	10.4
82.5°	0.0	0.0	10.4	20.8	31.3	41.7	57.3	46.9	20.8	10.4
85°	0.0	0.0	5.2	15.6	31.3	41.7	83.4	57.3	26.1	5.2
87.5°	0.0	0.0	0.0	5.2	5.2	10.4	31.3	20.8	10.4	5.2
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°
475259.1	0°	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1	475259.1
467640.4	1°	470907.8	471236.1	470162.6	471824.9	471241.3	467822.8	466692.0	465352.7
449104.5	2°	447728.7	449401.5	449484.9	451329.6	451303.6	447317.1	446082.0	448359.3
416535.0	3°	415273.9	417222.9	415466.7	418744.5	417759.6	412923.7	411667.8	414252.5
375335.9	4°	374215.5	373845.5	373241.0	371375.4	373673.6	370374.9	367889.2	371396.3
327565.6	5°	326909.0	326085.6	324907.9	324355.5	326064.8	323954.3	318842.2	323964.7
280582.2	6°	280926.1	277382.5	277210.6	276903.1	277075.1	271165.7	271520.0	275334.6
229716.5	7°	232144.8	232796.2	231467.4	233598.7	231972.9	227970.7	226428.2	230446.0
194176.6	8°	192821.7	191998.4	190982.2	194166.2	191347.0	188720.6	186922.8	190096.3
158720.2	9°	158423.2	157000.5	155968.7	155807.2	156244.9	151315.2	152315.7	154718.1
129068.9	10°	129115.8	126781.3	127349.3	127500.4	127021.0	123790.1	123821.3	124649.9
79162.1	12.5°	78880.7	77734.2	78020.8	78177.2	79151.7	78015.6	76410.6	75253.7
49912.1	15°	49578.6	48755.2	50438.4	51569.2	51339.9	50329.0	49573.4	48525.9
33179.2	17.5°	32871.7	33950.4	33955.6	34987.4	35091.7	34080.7	33497.1	32553.8
21579.2	20°	21501.1	21949.2	22882.0	23611.6	24033.7	23262.4	22564.1	21918.0
13455.1	22.5°	13455.1	14236.8	14820.4	15768.8	16154.5	15591.7	15096.6	14570.3
8400.3	25°	8259.6	8817.2	9301.8	10125.2	10651.5	10380.5	9927.2	9557.2
5424.8	27.5°	5508.2	5742.7	5982.4	6550.4	7097.5	6946.4	6764.0	6540.0
3825.0	30°	3882.3	3903.1	4158.5	4476.3	4841.1	4934.9	4851.5	4736.9
2808.8	32.5°	2860.9	2944.3	3064.1	3262.2	3507.1	3731.2	3689.5	3637.4
2147.0	35°	2209.5	2334.6	2433.6	2584.7	2715.0	2928.6	2965.1	2949.5
1766.6	37.5°	1803.0	1912.5	2011.5	2100.1	2209.5	2355.4	2470.1	2475.3
1459.1	40°	1495.6	1594.6	1724.9	1792.6	1870.8	1980.2	2120.9	2131.3
1235.0	42.5°	1261.1	1354.9	1485.2	1568.5	1625.9	1730.1	1870.8	1891.6
1057.9	45°	1083.9	1141.2	1276.7	1375.7	1433.1	1500.8	1651.9	1672.8
911.9	47.5°	943.2	1000.5	1083.9	1224.6	1276.7	1339.3	1459.1	1495.6
807.7	50°	828.6	885.9	958.8	1083.9	1162.1	1214.2	1313.2	1365.3
703.5	52.5°	734.8	792.1	870.3	969.3	1057.9	1104.8	1198.6	1266.3
573.2	55°	614.9	713.9	771.2	859.8	979.7	1021.4	1094.3	1182.9
500.3	57.5°	536.7	620.1	703.5	776.5	896.3	948.4	1021.4	1104.8
396.0	60°	453.4	531.5	630.5	693.1	807.7	875.5	953.6	1031.8
302.2	62.5°	359.6	463.8	531.5	620.1	729.6	818.1	880.7	958.8
234.5	65°	265.8	380.4	458.6	552.4	656.6	750.4	802.5	885.9
166.8	67.5°	192.8	297.0	390.8	479.4	578.4	672.2	724.3	797.3
104.2	70°	151.1	218.9	323.1	401.3	505.5	583.6	641.0	687.9
67.7	72.5°	88.6	166.8	260.6	349.1	442.9	495.1	536.7	578.4
31.3	75°	57.3	130.3	213.7	291.8	359.6	406.5	442.9	479.4
15.6	77.5°	36.5	93.8	172.0	244.9	276.2	333.5	364.8	385.6
10.4	80°	20.8	73.0	151.1	198.0	224.1	260.6	291.8	317.9
10.4	82.5°	15.6	62.5	125.1	166.8	166.8	208.4	224.1	224.1
5.2	85°	10.4	52.1	99.0	156.3	125.1	156.3	145.9	145.9
5.2	87.5°	10.4	36.5	46.9	67.7	57.3	67.7	67.7	78.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
475259.1  
460047.8  
438713.5  
402772.4  
358702.0  
310467.9  
264276.6  
219518.3  
181034.2  
147214.0  
119011.5  
74550.2  
47989.2  
32319.3  
21693.9  
14288.9  
9343.5  
6409.7  
4658.7  
3595.7  
2897.4  
2438.8  
2115.7  
1876.0  
1667.6  
1500.8  
1370.5  
1266.3  
1188.1  
1110.0  
1052.6  
995.3  
901.5  
802.5  
703.5  
588.9  
479.4  
375.2  
286.6  
208.4  
140.7  
78.2  
0.0

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