

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623072

Luminaire Tested: **IFLD-L-SA7C-735-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623072  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-735-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	45495 lumens	Max Intensity:	423338.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

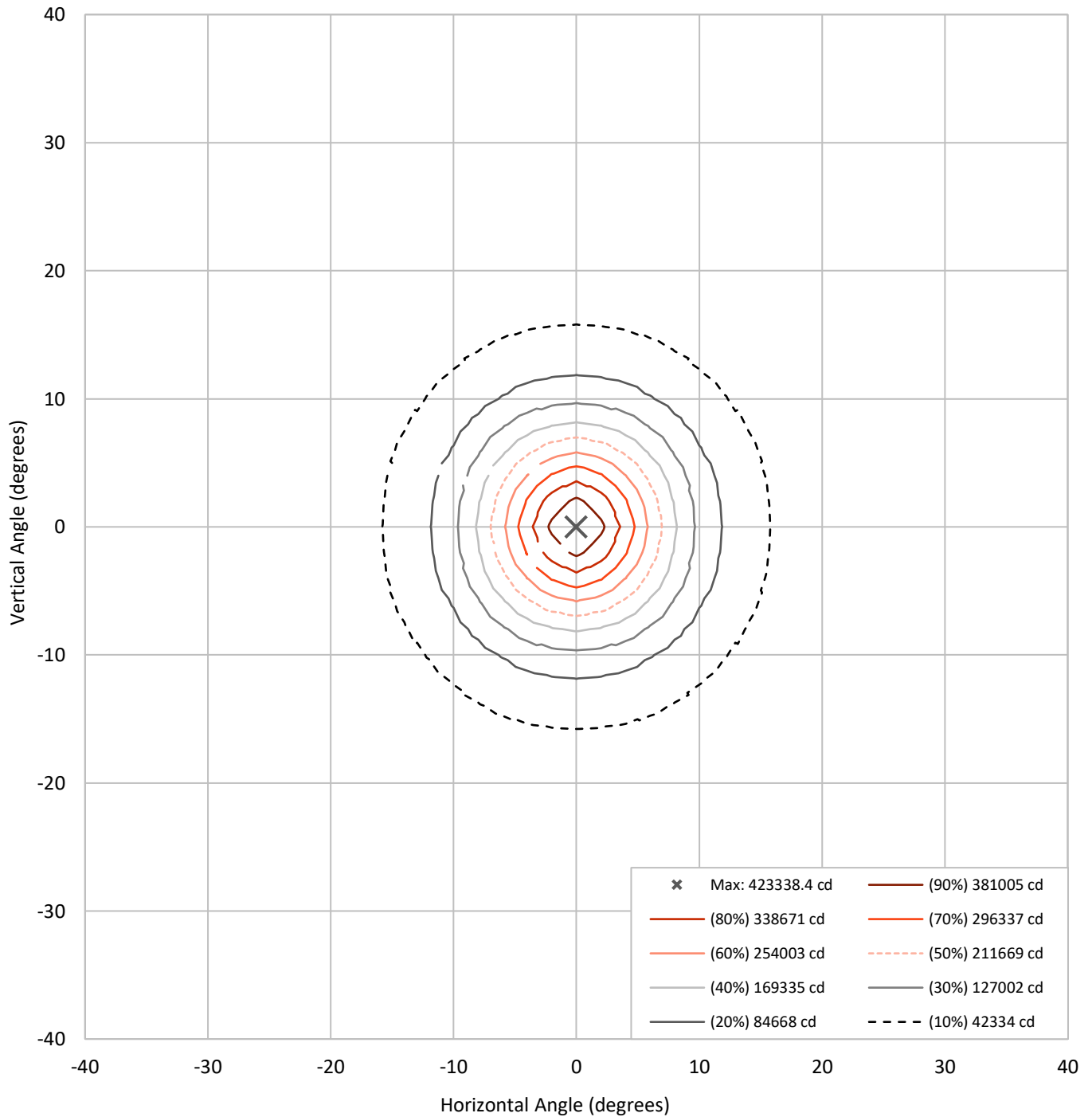
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	9948.5 lumens	Field Lumens:	23164.3 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 369  
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-Candela Plot





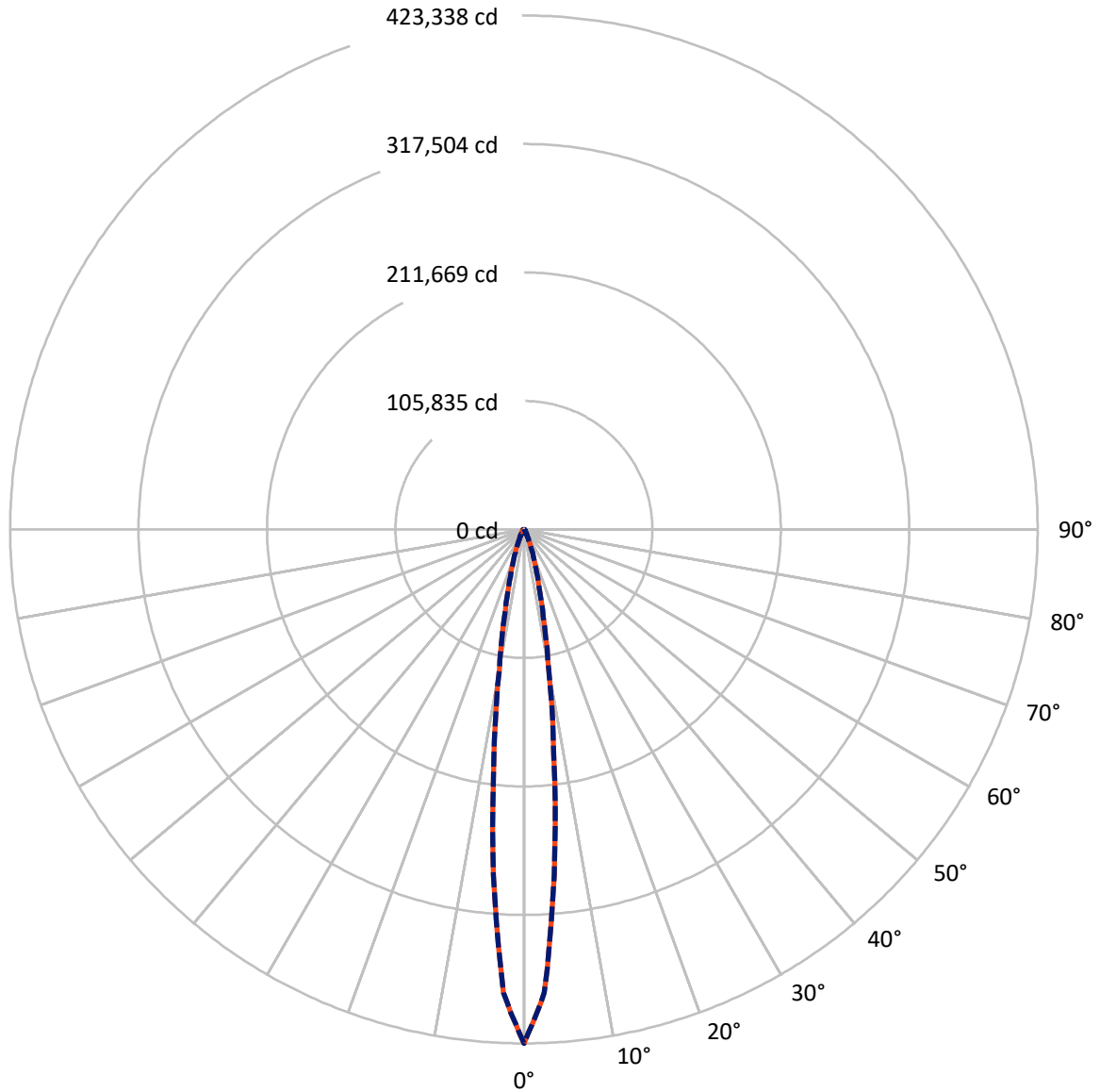
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### Lumen Table

90	0.8	5.9		15.6		25.4		29.6		25.4		15.6		5.9		0.8
80	0.8	5.9		15.6		25.4		29.6		25.4		15.6		5.9		0.8
70	2.7	3.0	6.3	10.5	14.8	18.7	21.6	23.2	23.2	21.6	18.7	14.8	10.5	6.3	3.0	2.7
60		4.7	9.7	15.8	21.8	27.1	31.2	33.4	33.4	31.2	27.1	21.8	15.8	9.7	4.7	
50	4.9	6.3	12.8	20.2	28.0	35.9	43.4	48.1	48.1	43.4	35.9	28.0	20.2	12.8	6.3	4.9
40		7.8	15.3	24.2	35.4	50.7	69.3	85.1	85.1	69.3	50.7	35.4	24.2	15.3	7.8	
30	6.6	8.8	17.2	28.1	45.9	81.0	165.5	283.1	283.1	165.5	81.0	45.9	28.1	17.2	8.8	6.6
20		9.6	18.6	31.9	59.0	156.0	561.0	1392.9	1392.9	561.0	156.0	59.0	31.9	18.6	9.6	
10	7.2	10.0	19.3	34.4	70.5	259.9	1357.2	5959.5	5959.5	1357.2	259.9	70.5	34.4	19.3	10.0	7.2
0		10.0	19.3	34.4	70.5	259.9	1357.2	5959.5	5959.5	1357.2	259.9	70.5	34.4	19.3	10.0	
-10	6.6	9.6	18.6	31.9	59.0	156.0	561.0	1392.9	1392.9	561.0	156.0	59.0	31.9	18.6	9.6	6.6
-20		8.8	17.2	28.1	45.9	81.0	165.5	283.1	283.1	165.5	81.0	45.9	28.1	17.2	8.8	
-30	4.9	7.8	15.3	24.2	35.4	50.7	69.3	85.1	85.1	69.3	50.7	35.4	24.2	15.3	7.8	4.9
-40		6.3	12.8	20.2	28.0	35.9	43.4	48.1	48.1	43.4	35.9	28.0	20.2	12.8	6.3	
-50	2.7	4.7	9.7	15.8	21.8	27.1	31.2	33.4	33.4	31.2	27.1	21.8	15.8	9.7	4.7	2.7
-60		3.0	6.3	10.5	14.8	18.7	21.6	23.2	23.2	21.6	18.7	14.8	10.5	6.3	3.0	
-70	0.8	5.9		15.6		25.4		29.6		25.4		15.6		5.9		0.8
-80		5.9		15.6		25.4		29.6		25.4		15.6		5.9		
-90	0.8	5.9		15.6		25.4		29.6		25.4		15.6		5.9		0.8

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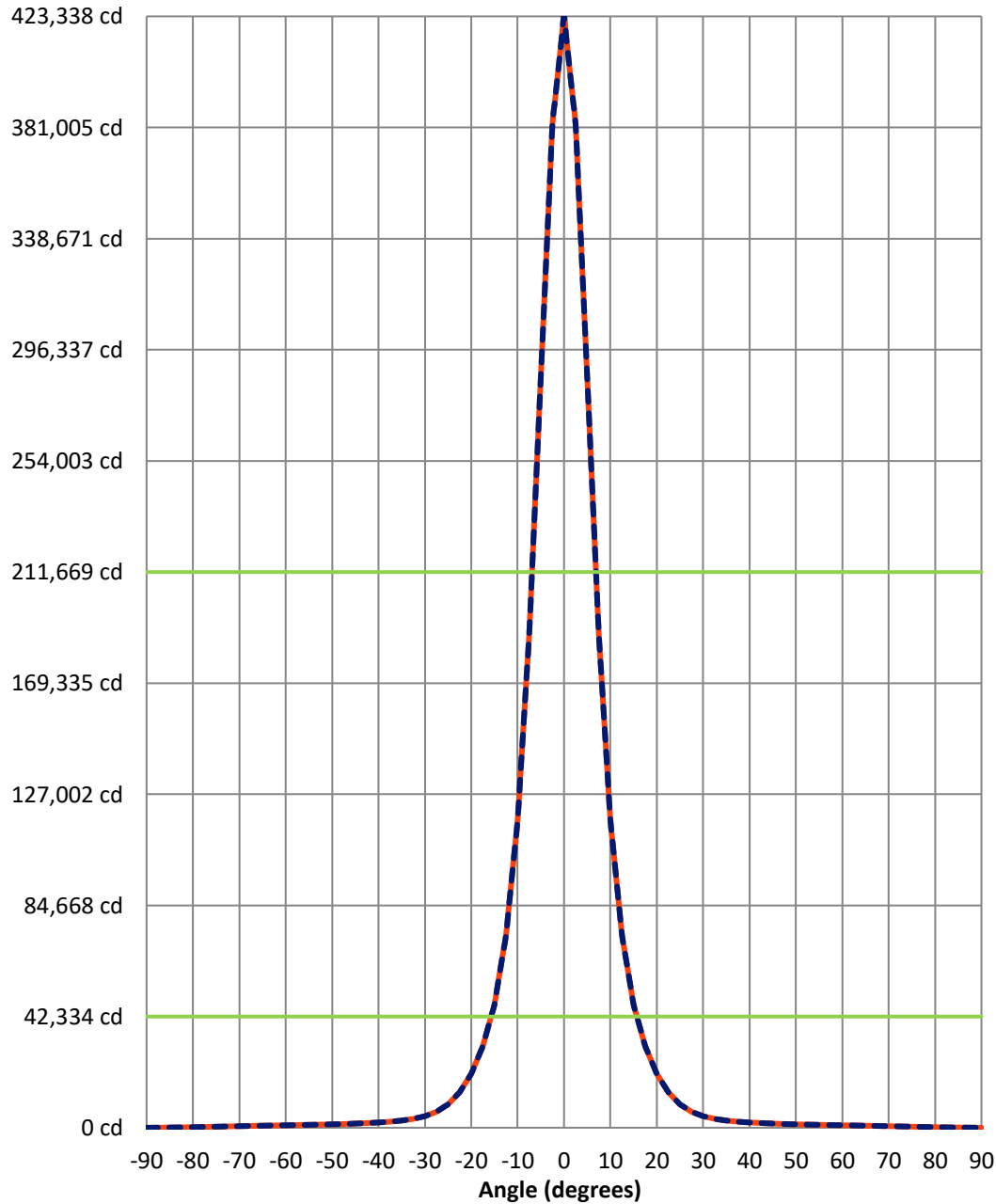
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 13.8°  
 V Angle: 13.8°  
 Lumens: 9948.5  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 23164.3  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 22330.7  
 Efficiency: 49.1%

— Vertical Distribution through 0-Deg  
 - - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	33.1	33.1
85°	85.2	85.2	85.2	85.2	85.2	85.2	80.5	80.5	80.5	75.7	75.7
82.5°	142.0	142.0	142.0	142.0	137.3	137.3	137.3	132.5	132.5	127.8	127.8
80°	217.7	217.7	217.7	217.7	213.0	208.3	208.3	203.5	198.8	194.1	189.3
77.5°	298.2	298.2	298.2	293.4	293.4	288.7	284.0	279.2	274.5	265.0	260.3
75°	392.8	392.8	392.8	388.1	383.4	378.6	373.9	364.4	359.7	350.2	340.8
72.5°	492.2	492.2	492.2	487.5	482.8	473.3	468.6	459.1	449.6	435.4	426.0
70°	586.9	586.9	586.9	582.2	572.7	568.0	558.5	549.0	539.6	525.4	511.2
67.5°	681.6	681.6	681.6	672.1	667.4	662.6	653.2	639.0	629.5	615.3	596.4
65°	771.5	771.5	766.7	762.0	757.3	747.8	738.3	728.9	714.7	700.5	681.6
62.5°	861.4	861.4	856.7	851.9	847.2	837.7	823.5	814.1	795.1	780.9	762.0
60°	937.1	937.1	932.4	927.7	922.9	913.5	904.0	889.8	875.6	861.4	842.5
57.5°	1017.6	1017.6	1012.9	1008.1	998.7	989.2	979.7	965.5	946.6	927.7	913.5
55°	1107.5	1107.5	1102.8	1093.3	1083.9	1074.4	1060.2	1041.3	1022.3	1003.4	979.7
52.5°	1192.7	1192.7	1188.0	1178.5	1169.1	1159.6	1140.7	1126.5	1102.8	1079.1	1050.7
50°	1296.8	1296.8	1287.4	1277.9	1268.4	1249.5	1230.6	1206.9	1183.2	1154.9	1131.2
47.5°	1415.2	1415.2	1405.7	1396.2	1377.3	1358.4	1330.0	1301.6	1273.2	1240.0	1202.2
45°	1580.8	1580.8	1566.6	1547.7	1524.0	1490.9	1453.0	1415.2	1372.6	1334.7	1292.1
42.5°	1784.3	1784.3	1765.4	1741.7	1708.6	1666.0	1614.0	1561.9	1505.1	1443.6	1386.8
40°	1997.3	1997.3	1973.7	1950.0	1912.1	1860.1	1803.3	1737.0	1666.0	1585.6	1514.6
37.5°	2290.8	2290.8	2257.6	2215.0	2158.2	2087.3	2002.1	1926.3	1845.9	1755.9	1661.3
35°	2726.2	2726.2	2674.1	2603.1	2513.2	2394.9	2267.1	2158.2	2035.2	1926.3	1822.2
32.5°	3369.9	3369.9	3280.0	3175.8	3024.4	2835.1	2650.5	2475.4	2290.8	2134.6	1983.1
30°	4382.8	4382.8	4231.3	4042.0	3786.4	3459.8	3185.3	2901.3	2631.5	2404.4	2196.1
27.5°	6067.7	5996.7	5788.5	5442.9	4969.6	4382.8	3961.5	3483.5	3104.8	2735.7	2465.9
25°	8907.5	8775.0	8382.1	7733.7	6858.1	5887.9	5121.1	4307.0	3729.6	3204.2	2783.0
22.5°	13522.2	13280.8	12561.4	11387.6	9802.0	8249.6	6834.5	5580.2	4548.4	3814.8	3204.2
20°	20546.0	20124.7	18884.7	16877.9	14170.6	11771.0	9248.3	7388.2	5736.4	4548.4	3729.6
17.5°	31100.5	30371.7	28237.1	24796.2	20546.0	16636.5	12793.3	9731.0	7388.2	5580.2	4307.0
15°	46889.8	45611.9	41882.3	35951.9	29141.1	22940.8	17483.7	12793.3	9248.3	6834.5	5121.1
12.5°	73399.4	70815.1	63346.5	51698.6	40841.1	30650.9	22940.8	16636.5	11771.0	8249.6	5887.9
10°	117198.5	111859.7	96718.9	73801.7	56370.0	40841.1	29141.1	20546.0	14170.6	9802.0	6858.1
7.5°	188193.5	176734.9	145426.2	106838.0	73801.7	51698.6	35951.9	24796.2	16877.9	11387.6	7733.7
5°	286114.6	263055.4	205170.8	145426.2	96718.9	63346.5	41882.3	28237.1	18884.7	12561.4	8382.1
2.5°	382118.7	342375.7	263055.4	176734.9	111859.7	70815.1	45611.9	30371.7	20124.7	13280.8	8775.0
0°	423338.4	382118.7	286114.6	188193.5	117198.5	73399.4	46889.8	31100.5	20546.0	13522.2	8907.5



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.1	33.1	33.1	33.1	28.4	28.4	28.4	28.4	23.7	23.7	23.7
85°	75.7	71.0	71.0	66.3	66.3	61.5	61.5	56.8	56.8	52.1	47.3
82.5°	123.1	118.3	113.6	108.9	108.9	104.1	99.4	89.9	85.2	80.5	75.7
80°	184.6	175.1	170.4	160.9	156.2	146.7	137.3	132.5	123.1	118.3	108.9
77.5°	250.8	241.4	236.6	222.5	213.0	203.5	194.1	179.9	170.4	156.2	142.0
75°	326.6	317.1	302.9	288.7	279.2	265.0	250.8	236.6	217.7	203.5	189.3
72.5°	411.8	397.6	383.4	364.4	345.5	331.3	307.6	288.7	274.5	255.6	236.6
70°	497.0	482.8	463.8	444.9	421.2	402.3	378.6	355.0	331.3	307.6	284.0
67.5°	582.2	563.2	544.3	520.6	497.0	473.3	449.6	421.2	392.8	364.4	336.0
65°	662.6	643.7	620.0	596.4	572.7	544.3	515.9	487.5	454.4	421.2	392.8
62.5°	743.1	719.4	695.8	672.1	643.7	615.3	586.9	549.0	515.9	482.8	444.9
60°	818.8	795.1	771.5	743.1	714.7	681.6	648.4	615.3	577.4	539.6	501.7
57.5°	889.8	866.1	842.5	809.3	780.9	747.8	709.9	676.8	634.2	596.4	553.8
55°	956.1	932.4	904.0	875.6	847.2	809.3	771.5	733.6	691.0	648.4	601.1
52.5°	1022.3	993.9	965.5	937.1	904.0	870.9	833.0	790.4	747.8	700.5	653.2
50°	1098.1	1064.9	1027.1	993.9	956.1	922.9	885.1	842.5	799.9	747.8	700.5
47.5°	1169.1	1135.9	1098.1	1055.5	1017.6	975.0	932.4	894.5	847.2	799.9	747.8
45°	1249.5	1202.2	1164.3	1121.7	1074.4	1027.1	984.5	937.1	894.5	842.5	790.4
42.5°	1334.7	1282.6	1230.6	1178.5	1135.9	1083.9	1031.8	984.5	932.4	885.1	833.0
40°	1434.1	1372.6	1306.3	1249.5	1192.7	1140.7	1083.9	1027.1	975.0	922.9	870.9
37.5°	1561.9	1476.7	1391.5	1320.5	1254.2	1192.7	1135.9	1074.4	1017.6	956.1	904.0
35°	1713.3	1595.0	1495.6	1396.2	1320.5	1249.5	1178.5	1121.7	1055.5	993.9	937.1
32.5°	1864.8	1737.0	1609.2	1495.6	1391.5	1306.3	1230.6	1164.3	1098.1	1027.1	965.5
30°	2021.0	1879.0	1737.0	1595.0	1476.7	1372.6	1282.6	1202.2	1135.9	1064.9	993.9
27.5°	2219.8	2021.0	1864.8	1713.3	1561.9	1434.1	1334.7	1249.5	1169.1	1098.1	1022.3
25°	2465.9	2196.1	1983.1	1822.2	1661.3	1514.6	1386.8	1292.1	1202.2	1131.2	1050.7
22.5°	2735.7	2404.4	2134.6	1926.3	1755.9	1585.6	1443.6	1334.7	1240.0	1154.9	1079.1
20°	3104.8	2631.5	2290.8	2035.2	1845.9	1666.0	1505.1	1372.6	1273.2	1183.2	1102.8
17.5°	3483.5	2901.3	2475.4	2158.2	1926.3	1737.0	1561.9	1415.2	1301.6	1206.9	1126.5
15°	3961.5	3185.3	2650.5	2267.1	2002.1	1803.3	1614.0	1453.0	1330.0	1230.6	1140.7
12.5°	4382.8	3459.8	2835.1	2394.9	2087.3	1860.1	1666.0	1490.9	1358.4	1249.5	1159.6
10°	4969.6	3786.4	3024.4	2513.2	2158.2	1912.1	1708.6	1524.0	1377.3	1268.4	1169.1
7.5°	5442.9	4042.0	3175.8	2603.1	2215.0	1950.0	1741.7	1547.7	1396.2	1277.9	1178.5
5°	5788.5	4231.3	3280.0	2674.1	2257.6	1973.7	1765.4	1566.6	1405.7	1287.4	1188.0
2.5°	5996.7	4382.8	3369.9	2726.2	2290.8	1997.3	1784.3	1580.8	1415.2	1296.8	1192.7
0°	6067.7	4382.8	3369.9	2726.2	2290.8	1997.3	1784.3	1580.8	1415.2	1296.8	1192.7





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	18.9	18.9	18.9	14.2	14.2	14.2	9.5	9.5	9.5	4.7
85°	42.6	42.6	37.9	33.1	33.1	28.4	23.7	23.7	18.9	14.2	14.2
82.5°	71.0	66.3	61.5	56.8	52.1	42.6	37.9	33.1	28.4	23.7	18.9
80°	99.4	94.7	85.2	75.7	71.0	61.5	56.8	47.3	37.9	33.1	28.4
77.5°	132.5	123.1	113.6	104.1	89.9	80.5	71.0	61.5	52.1	42.6	33.1
75°	175.1	156.2	142.0	127.8	113.6	99.4	85.2	75.7	61.5	52.1	37.9
72.5°	217.7	198.8	175.1	156.2	137.3	123.1	104.1	89.9	75.7	61.5	47.3
70°	260.3	236.6	213.0	189.3	165.7	142.0	123.1	104.1	85.2	71.0	56.8
67.5°	302.9	279.2	250.8	222.5	198.8	170.4	142.0	123.1	99.4	80.5	61.5
65°	355.0	321.8	288.7	260.3	227.2	198.8	165.7	137.3	113.6	89.9	71.0
62.5°	407.0	369.2	331.3	293.4	260.3	222.5	189.3	156.2	127.8	104.1	75.7
60°	459.1	416.5	373.9	331.3	288.7	250.8	213.0	175.1	142.0	113.6	85.2
57.5°	511.2	463.8	416.5	369.2	321.8	279.2	236.6	198.8	156.2	123.1	94.7
55°	558.5	511.2	459.1	407.0	355.0	302.9	260.3	217.7	175.1	132.5	99.4
52.5°	601.1	553.8	501.7	444.9	392.8	336.0	284.0	236.6	189.3	142.0	108.9
50°	648.4	596.4	539.6	482.8	421.2	364.4	307.6	255.6	203.5	156.2	118.3
47.5°	691.0	634.2	577.4	515.9	454.4	392.8	331.3	274.5	217.7	170.4	123.1
45°	733.6	676.8	615.3	549.0	487.5	421.2	355.0	288.7	236.6	179.9	132.5
42.5°	771.5	709.9	648.4	586.9	515.9	449.6	378.6	307.6	250.8	194.1	137.3
40°	809.3	747.8	681.6	615.3	544.3	473.3	402.3	331.3	265.0	203.5	146.7
37.5°	847.2	780.9	714.7	643.7	572.7	497.0	421.2	345.5	279.2	213.0	156.2
35°	875.6	809.3	743.1	672.1	596.4	520.6	444.9	364.4	288.7	222.5	160.9
32.5°	904.0	842.5	771.5	695.8	620.0	544.3	463.8	383.4	302.9	236.6	170.4
30°	932.4	866.1	795.1	719.4	643.7	563.2	482.8	397.6	317.1	241.4	175.1
27.5°	956.1	889.8	818.8	743.1	662.6	582.2	497.0	411.8	326.6	250.8	184.6
25°	979.7	913.5	842.5	762.0	681.6	596.4	511.2	426.0	340.8	260.3	189.3
22.5°	1003.4	927.7	861.4	780.9	700.5	615.3	525.4	435.4	350.2	265.0	194.1
20°	1022.3	946.6	875.6	795.1	714.7	629.5	539.6	449.6	359.7	274.5	198.8
17.5°	1041.3	965.5	889.8	814.1	728.9	639.0	549.0	459.1	364.4	279.2	203.5
15°	1060.2	979.7	904.0	823.5	738.3	653.2	558.5	468.6	373.9	284.0	208.3
12.5°	1074.4	989.2	913.5	837.7	747.8	662.6	568.0	473.3	378.6	288.7	208.3
10°	1083.9	998.7	922.9	847.2	757.3	667.4	572.7	482.8	383.4	293.4	213.0
7.5°	1093.3	1008.1	927.7	851.9	762.0	672.1	582.2	487.5	388.1	293.4	217.7
5°	1102.8	1012.9	932.4	856.7	766.7	681.6	586.9	492.2	392.8	298.2	217.7
2.5°	1107.5	1017.6	937.1	861.4	771.5	681.6	586.9	492.2	392.8	298.2	217.7
0°	1107.5	1017.6	937.1	861.4	771.5	681.6	586.9	492.2	392.8	298.2	217.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	0.0	0.0
85°	9.5	4.7	4.7	0.0
82.5°	14.2	9.5	4.7	0.0
80°	18.9	14.2	4.7	0.0
77.5°	23.7	14.2	9.5	0.0
75°	28.4	18.9	9.5	0.0
72.5°	33.1	23.7	9.5	0.0
70°	37.9	23.7	14.2	0.0
67.5°	42.6	28.4	14.2	0.0
65°	52.1	33.1	14.2	0.0
62.5°	56.8	33.1	18.9	0.0
60°	61.5	37.9	18.9	0.0
57.5°	66.3	42.6	18.9	0.0
55°	71.0	42.6	23.7	0.0
52.5°	75.7	47.3	23.7	0.0
50°	80.5	52.1	23.7	0.0
47.5°	85.2	56.8	23.7	0.0
45°	89.9	56.8	28.4	0.0
42.5°	99.4	61.5	28.4	0.0
40°	104.1	61.5	28.4	0.0
37.5°	108.9	66.3	28.4	0.0
35°	108.9	66.3	33.1	0.0
32.5°	113.6	71.0	33.1	0.0
30°	118.3	71.0	33.1	0.0
27.5°	123.1	75.7	33.1	0.0
25°	127.8	75.7	33.1	0.0
22.5°	127.8	75.7	33.1	0.0
20°	132.5	80.5	37.9	0.0
17.5°	132.5	80.5	37.9	0.0
15°	137.3	80.5	37.9	0.0
12.5°	137.3	85.2	37.9	0.0
10°	137.3	85.2	37.9	0.0
7.5°	142.0	85.2	37.9	0.0
5°	142.0	85.2	37.9	0.0
2.5°	142.0	85.2	37.9	0.0
0°	142.0	85.2	37.9	0.0

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