

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: P623061

Luminaire Tested: **IFLD-S-SA6B-735-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623061  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-735-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	34256.3 lumens	Max Intensity:	318759.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

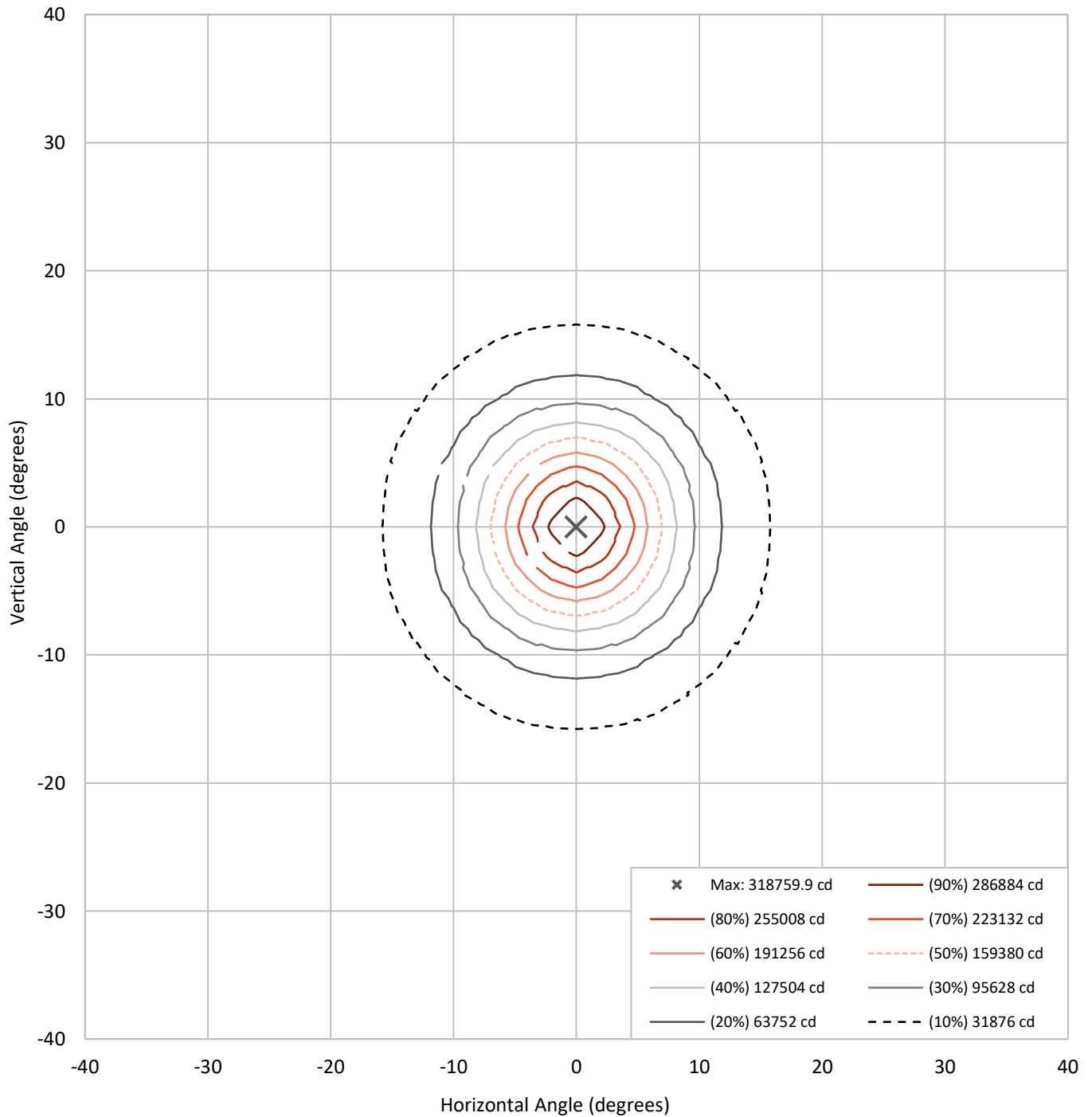
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	7490.9 lumens	Field Lumens:	17441.9 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 244.9  
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





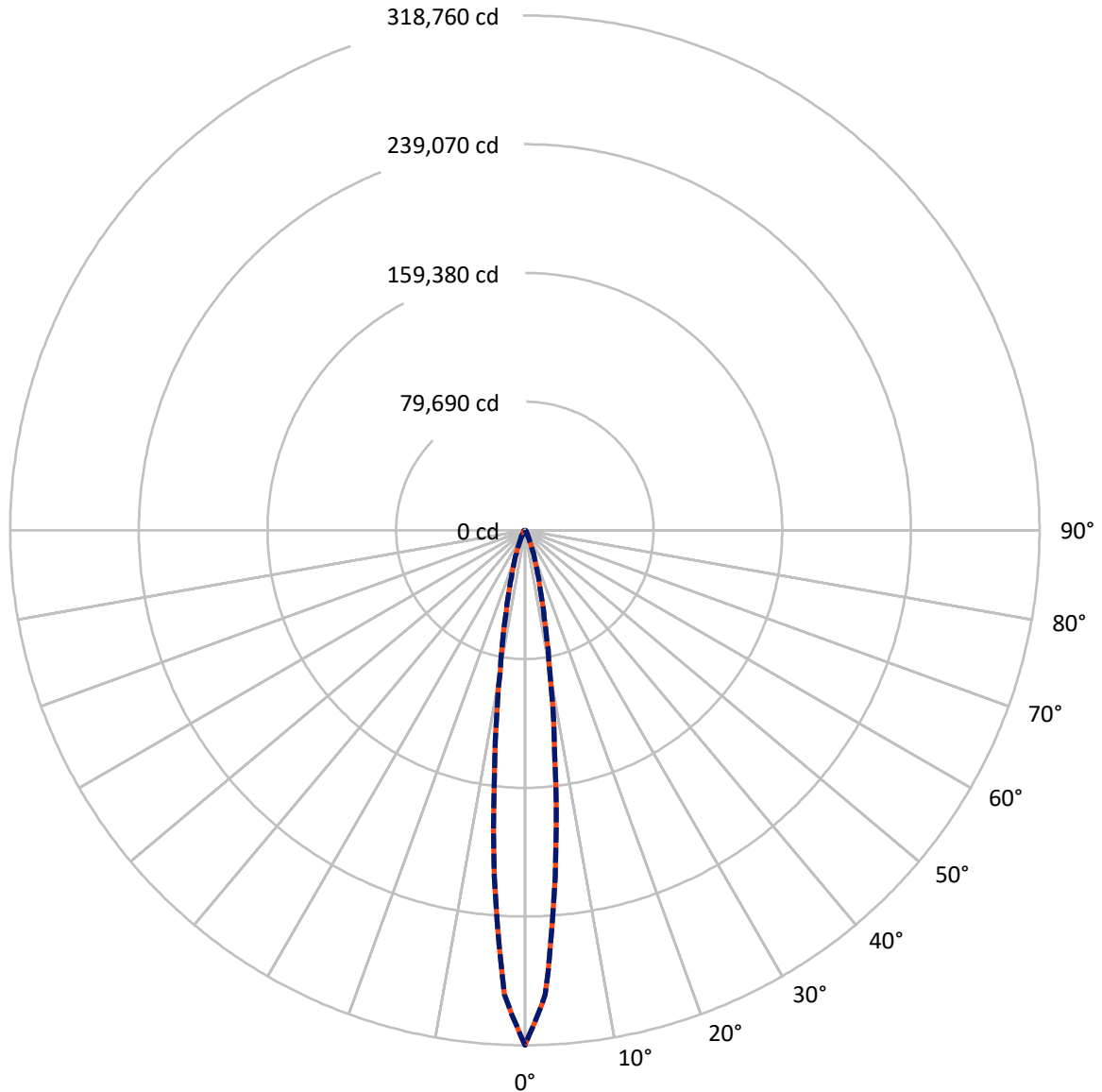
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### Lumen Table

90	0.6	4.4		11.8		19.2		22.3		19.2		11.8		4.4		0.6			
80	0.6	4.4		11.8		19.2		22.3		19.2		11.8		4.4		0.6			
70	2.0	2.2	4.7	7.9	11.2	14.1	16.3	17.4	17.4	16.3	14.1	11.2	7.9	4.7	2.2	2.0			
60		3.5	7.3	11.9	16.4	20.4	23.5	25.1	25.1	23.5	20.4	16.4	11.9	7.3	3.5				
50	3.7	4.8	9.7	15.2	21.0	27.0	32.7	36.2	36.2	32.7	27.0	21.0	15.2	9.7	4.8	3.7			
40		5.8	11.5	18.2	26.7	38.2	52.2	64.1	64.1	52.2	38.2	26.7	18.2	11.5	5.8				
30	4.9	6.7	13.0	21.2	34.6	61.0	124.6	213.2	213.2	124.6	61.0	34.6	21.2	13.0	6.7	4.9			
20		7.2	14.0	24.0	44.5	117.4	422.4	1048.8	1048.8	422.4	117.4	44.5	24.0	14.0	7.2				
10	5.4	7.5	14.6	25.9	53.1	195.7	1022.0	4487.3	4487.3	1022.0	195.7	53.1	25.9	14.6	7.5	5.4			
0		7.5	14.6	25.9	53.1	195.7	1022.0	4487.3	4487.3	1022.0	195.7	53.1	25.9	14.6	7.5				
-10	4.9	7.2	14.0	24.0	44.5	117.4	422.4	1048.8	1048.8	422.4	117.4	44.5	24.0	14.0	7.2	4.9			
-20		6.7	13.0	21.2	34.6	61.0	124.6	213.2	213.2	124.6	61.0	34.6	21.2	13.0	6.7				
-30	3.7	5.8	11.5	18.2	26.7	38.2	52.2	64.1	64.1	52.2	38.2	26.7	18.2	11.5	5.8	3.7			
-40		4.8	9.7	15.2	21.0	27.0	32.7	36.2	36.2	32.7	27.0	21.0	15.2	9.7	4.8				
-50	2.0	3.5	7.3	11.9	16.4	20.4	23.5	25.1	25.1	23.5	20.4	16.4	11.9	7.3	3.5	2.0			
-60		2.2	4.7	7.9	11.2	14.1	16.3	17.4	17.4	16.3	14.1	11.2	7.9	4.7	2.2				
-70	0.6	4.4		11.8		19.2		22.3		19.2		11.8		4.4		0.6			
-80		4.4		11.8		19.2		22.3		19.2		11.8		4.4					
-90	0.6	4.4		11.8		19.2		22.3		19.2		11.8		4.4		0.6			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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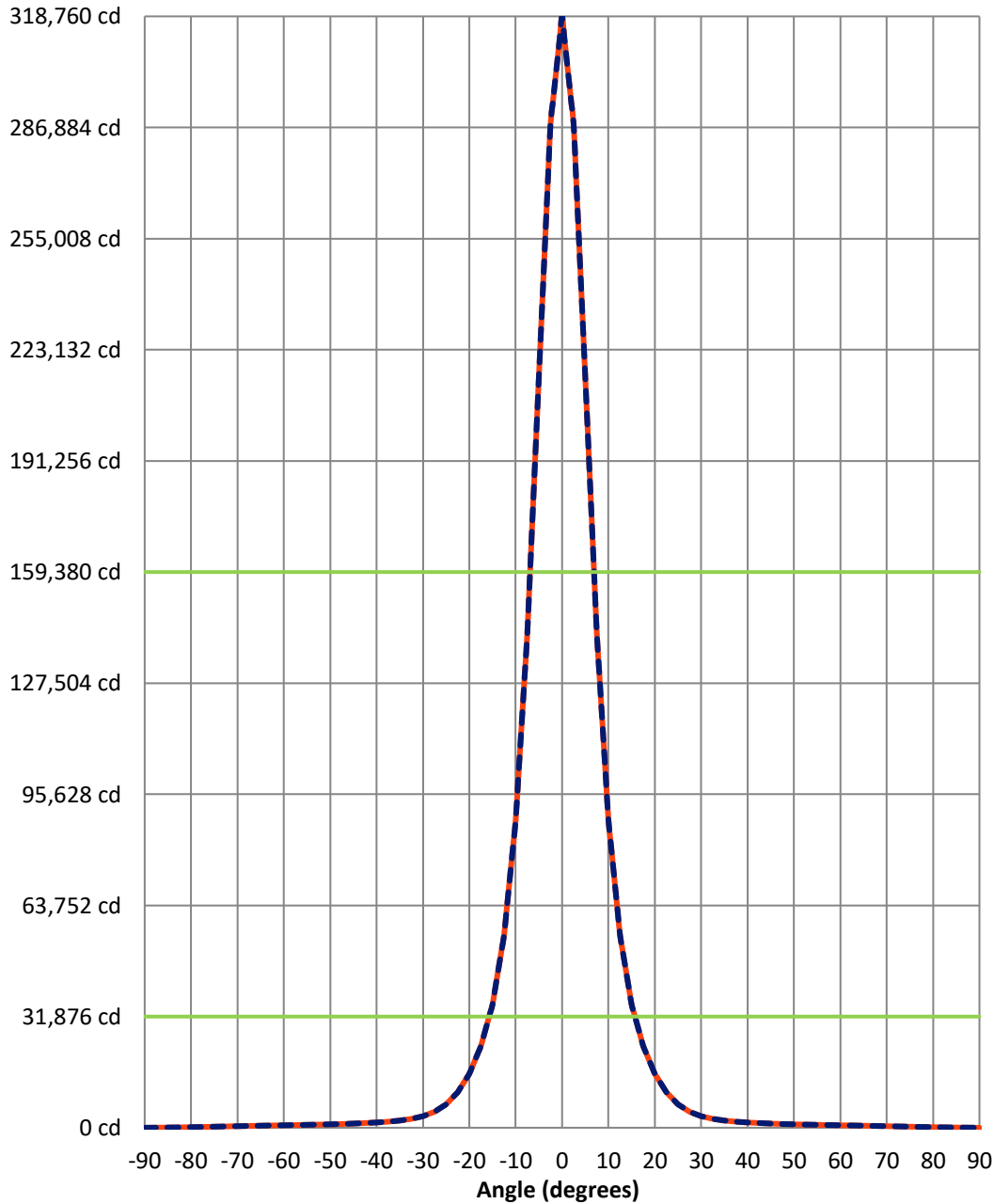
### Luminous Intensity Polar Plot



— 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: 7490.9  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 17441.9  
Efficiency: 50.9%

**Spill:**  
Lumens: 16814.3  
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°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	24.9	24.9
85°	64.1	64.1	64.1	64.1	64.1	64.1	60.6	60.6	60.6	57.0	57.0
82.5°	106.9	106.9	106.9	106.9	103.3	103.3	103.3	99.8	99.8	96.2	96.2
80°	163.9	163.9	163.9	163.9	160.4	156.8	156.8	153.2	149.7	146.1	142.6
77.5°	224.5	224.5	224.5	221.0	221.0	217.4	213.8	210.3	206.7	199.6	196.0
75°	295.8	295.8	295.8	292.2	288.7	285.1	281.5	274.4	270.8	263.7	256.6
72.5°	370.6	370.6	370.6	367.1	363.5	356.4	352.8	345.7	338.6	327.9	320.7
70°	441.9	441.9	441.9	438.3	431.2	427.7	420.5	413.4	406.3	395.6	384.9
67.5°	513.2	513.2	513.2	506.1	502.5	498.9	491.8	481.1	474.0	463.3	449.0
65°	580.9	580.9	577.3	573.8	570.2	563.1	556.0	548.8	538.1	527.4	513.2
62.5°	648.6	648.6	645.0	641.5	637.9	630.8	620.1	613.0	598.7	588.0	573.8
60°	705.6	705.6	702.1	698.5	694.9	687.8	680.7	670.0	659.3	648.6	634.4
57.5°	766.2	766.2	762.7	759.1	752.0	744.8	737.7	727.0	712.8	698.5	687.8
55°	833.9	833.9	830.4	823.2	816.1	809.0	798.3	784.0	769.8	755.5	737.7
52.5°	898.1	898.1	894.5	887.4	880.3	873.1	858.9	848.2	830.4	812.5	791.2
50°	976.5	976.5	969.4	962.2	955.1	940.8	926.6	908.8	890.9	869.6	851.7
47.5°	1065.6	1065.6	1058.4	1051.3	1037.1	1022.8	1001.4	980.0	958.7	933.7	905.2
45°	1190.3	1190.3	1179.6	1165.4	1147.5	1122.6	1094.1	1065.6	1033.5	1005.0	972.9
42.5°	1343.5	1343.5	1329.3	1311.5	1286.5	1254.5	1215.3	1176.1	1133.3	1087.0	1044.2
40°	1503.9	1503.9	1486.1	1468.3	1439.8	1400.6	1357.8	1307.9	1254.5	1193.9	1140.4
37.5°	1724.9	1724.9	1699.9	1667.9	1625.1	1571.6	1507.5	1450.5	1389.9	1322.2	1250.9
35°	2052.7	2052.7	2013.5	1960.1	1892.4	1803.3	1707.1	1625.1	1532.4	1450.5	1372.1
32.5°	2537.4	2537.4	2469.7	2391.3	2277.3	2134.7	1995.7	1863.9	1724.9	1607.3	1493.2
30°	3300.1	3300.1	3186.0	3043.5	2851.0	2605.1	2398.4	2184.6	1981.5	1810.4	1653.6
27.5°	4568.8	4515.3	4358.5	4098.4	3742.0	3300.1	2982.9	2623.0	2337.8	2059.9	1856.7
25°	6707.1	6607.3	6311.5	5823.2	5163.9	4433.4	3856.0	3243.1	2808.3	2412.7	2095.5
22.5°	10181.8	10000.0	9458.3	8574.5	7380.6	6211.7	5146.1	4201.7	3424.8	2872.4	2412.7
20°	15470.4	15153.2	14219.5	12708.5	10670.0	8863.2	6963.7	5563.1	4319.3	3424.8	2808.3
17.5°	23417.7	22868.9	21261.6	18670.7	15470.4	12526.7	9632.9	7327.2	5563.1	4201.7	3243.1
15°	35306.5	34344.3	31536.0	27070.6	21942.3	17273.7	13164.7	9632.9	6963.7	5146.1	3856.0
12.5°	55267.3	53321.5	47697.8	38927.3	30752.0	23079.1	17273.7	12526.7	8863.2	6211.7	4433.4
10°	88246.6	84226.7	72826.1	55570.2	42444.8	30752.0	21942.3	15470.4	10670.0	7380.6	5163.9
7.5°	141703.5	133075.6	109501.1	80445.5	55570.2	38927.3	27070.6	18670.7	12708.5	8574.5	5823.2
5°	215434.9	198072.1	154486.9	109501.1	72826.1	47697.8	31536.0	21261.6	14219.5	9458.3	6311.5
2.5°	287722.8	257797.7	198072.1	133075.6	84226.7	53321.5	34344.3	22868.9	15153.2	10000.0	6607.3
0°	318759.9	287722.8	215434.9	141703.5	88246.6	55267.3	35306.5	23417.7	15470.4	10181.8	6707.1



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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°	24.9	24.9	24.9	24.9	21.4	21.4	21.4	21.4	17.8	17.8	17.8
85°	57.0	53.5	53.5	49.9	49.9	46.3	46.3	42.8	42.8	39.2	35.6
82.5°	92.7	89.1	85.5	82.0	82.0	78.4	74.8	67.7	64.1	60.6	57.0
80°	139.0	131.9	128.3	121.2	117.6	110.5	103.3	99.8	92.7	89.1	82.0
77.5°	188.9	181.8	178.2	167.5	160.4	153.2	146.1	135.4	128.3	117.6	106.9
75°	245.9	238.8	228.1	217.4	210.3	199.6	188.9	178.2	163.9	153.2	142.6
72.5°	310.0	299.4	288.7	274.4	260.2	249.5	231.6	217.4	206.7	192.4	178.2
70°	374.2	363.5	349.3	335.0	317.2	302.9	285.1	267.3	249.5	231.6	213.8
67.5°	438.3	424.1	409.8	392.0	374.2	356.4	338.6	317.2	295.8	274.4	253.0
65°	498.9	484.7	466.9	449.0	431.2	409.8	388.5	367.1	342.1	317.2	295.8
62.5°	559.5	541.7	523.9	506.1	484.7	463.3	441.9	413.4	388.5	363.5	335.0
60°	616.5	598.7	580.9	559.5	538.1	513.2	488.2	463.3	434.8	406.3	377.8
57.5°	670.0	652.2	634.4	609.4	588.0	563.1	534.6	509.6	477.5	449.0	417.0
55°	719.9	702.1	680.7	659.3	637.9	609.4	580.9	552.4	520.3	488.2	452.6
52.5°	769.8	748.4	727.0	705.6	680.7	655.7	627.2	595.2	563.1	527.4	491.8
50°	826.8	801.9	773.3	748.4	719.9	694.9	666.4	634.4	602.3	563.1	527.4
47.5°	880.3	855.3	826.8	794.7	766.2	734.1	702.1	673.6	637.9	602.3	563.1
45°	940.8	905.2	876.7	844.6	809.0	773.3	741.3	705.6	673.6	634.4	595.2
42.5°	1005.0	965.8	926.6	887.4	855.3	816.1	776.9	741.3	702.1	666.4	627.2
40°	1079.8	1033.5	983.6	940.8	898.1	858.9	816.1	773.3	734.1	694.9	655.7
37.5°	1176.1	1111.9	1047.8	994.3	944.4	898.1	855.3	809.0	766.2	719.9	680.7
35°	1290.1	1201.0	1126.2	1051.3	994.3	940.8	887.4	844.6	794.7	748.4	705.6
32.5°	1404.1	1307.9	1211.7	1126.2	1047.8	983.6	926.6	876.7	826.8	773.3	727.0
30°	1521.7	1414.8	1307.9	1201.0	1111.9	1033.5	965.8	905.2	855.3	801.9	748.4
27.5°	1671.4	1521.7	1404.1	1290.1	1176.1	1079.8	1005.0	940.8	880.3	826.8	769.8
25°	1856.7	1653.6	1493.2	1372.1	1250.9	1140.4	1044.2	972.9	905.2	851.7	791.2
22.5°	2059.9	1810.4	1607.3	1450.5	1322.2	1193.9	1087.0	1005.0	933.7	869.6	812.5
20°	2337.8	1981.5	1724.9	1532.4	1389.9	1254.5	1133.3	1033.5	958.7	890.9	830.4
17.5°	2623.0	2184.6	1863.9	1625.1	1450.5	1307.9	1176.1	1065.6	980.0	908.8	848.2
15°	2982.9	2398.4	1995.7	1707.1	1507.5	1357.8	1215.3	1094.1	1001.4	926.6	858.9
12.5°	3300.1	2605.1	2134.7	1803.3	1571.6	1400.6	1254.5	1122.6	1022.8	940.8	873.1
10°	3742.0	2851.0	2277.3	1892.4	1625.1	1439.8	1286.5	1147.5	1037.1	955.1	880.3
7.5°	4098.4	3043.5	2391.3	1960.1	1667.9	1468.3	1311.5	1165.4	1051.3	962.2	887.4
5°	4358.5	3186.0	2469.7	2013.5	1699.9	1486.1	1329.3	1179.6	1058.4	969.4	894.5
2.5°	4515.3	3300.1	2537.4	2052.7	1724.9	1503.9	1343.5	1190.3	1065.6	976.5	898.1
0°	4568.8	3300.1	2537.4	2052.7	1724.9	1503.9	1343.5	1190.3	1065.6	976.5	898.1





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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°	17.8	14.3	14.3	14.3	10.7	10.7	10.7	7.1	7.1	7.1	3.6
85°	32.1	32.1	28.5	24.9	24.9	21.4	17.8	17.8	14.3	10.7	10.7
82.5°	53.5	49.9	46.3	42.8	39.2	32.1	28.5	24.9	21.4	17.8	14.3
80°	74.8	71.3	64.1	57.0	53.5	46.3	42.8	35.6	28.5	24.9	21.4
77.5°	99.8	92.7	85.5	78.4	67.7	60.6	53.5	46.3	39.2	32.1	24.9
75°	131.9	117.6	106.9	96.2	85.5	74.8	64.1	57.0	46.3	39.2	28.5
72.5°	163.9	149.7	131.9	117.6	103.3	92.7	78.4	67.7	57.0	46.3	35.6
70°	196.0	178.2	160.4	142.6	124.7	106.9	92.7	78.4	64.1	53.5	42.8
67.5°	228.1	210.3	188.9	167.5	149.7	128.3	106.9	92.7	74.8	60.6	46.3
65°	267.3	242.3	217.4	196.0	171.1	149.7	124.7	103.3	85.5	67.7	53.5
62.5°	306.5	278.0	249.5	221.0	196.0	167.5	142.6	117.6	96.2	78.4	57.0
60°	345.7	313.6	281.5	249.5	217.4	188.9	160.4	131.9	106.9	85.5	64.1
57.5°	384.9	349.3	313.6	278.0	242.3	210.3	178.2	149.7	117.6	92.7	71.3
55°	420.5	384.9	345.7	306.5	267.3	228.1	196.0	163.9	131.9	99.8	74.8
52.5°	452.6	417.0	377.8	335.0	295.8	253.0	213.8	178.2	142.6	106.9	82.0
50°	488.2	449.0	406.3	363.5	317.2	274.4	231.6	192.4	153.2	117.6	89.1
47.5°	520.3	477.5	434.8	388.5	342.1	295.8	249.5	206.7	163.9	128.3	92.7
45°	552.4	509.6	463.3	413.4	367.1	317.2	267.3	217.4	178.2	135.4	99.8
42.5°	580.9	534.6	488.2	441.9	388.5	338.6	285.1	231.6	188.9	146.1	103.3
40°	609.4	563.1	513.2	463.3	409.8	356.4	302.9	249.5	199.6	153.2	110.5
37.5°	637.9	588.0	538.1	484.7	431.2	374.2	317.2	260.2	210.3	160.4	117.6
35°	659.3	609.4	559.5	506.1	449.0	392.0	335.0	274.4	217.4	167.5	121.2
32.5°	680.7	634.4	580.9	523.9	466.9	409.8	349.3	288.7	228.1	178.2	128.3
30°	702.1	652.2	598.7	541.7	484.7	424.1	363.5	299.4	238.8	181.8	131.9
27.5°	719.9	670.0	616.5	559.5	498.9	438.3	374.2	310.0	245.9	188.9	139.0
25°	737.7	687.8	634.4	573.8	513.2	449.0	384.9	320.7	256.6	196.0	142.6
22.5°	755.5	698.5	648.6	588.0	527.4	463.3	395.6	327.9	263.7	199.6	146.1
20°	769.8	712.8	659.3	598.7	538.1	474.0	406.3	338.6	270.8	206.7	149.7
17.5°	784.0	727.0	670.0	613.0	548.8	481.1	413.4	345.7	274.4	210.3	153.2
15°	798.3	737.7	680.7	620.1	556.0	491.8	420.5	352.8	281.5	213.8	156.8
12.5°	809.0	744.8	687.8	630.8	563.1	498.9	427.7	356.4	285.1	217.4	156.8
10°	816.1	752.0	694.9	637.9	570.2	502.5	431.2	363.5	288.7	221.0	160.4
7.5°	823.2	759.1	698.5	641.5	573.8	506.1	438.3	367.1	292.2	221.0	163.9
5°	830.4	762.7	702.1	645.0	577.3	513.2	441.9	370.6	295.8	224.5	163.9
2.5°	833.9	766.2	705.6	648.6	580.9	513.2	441.9	370.6	295.8	224.5	163.9
0°	833.9	766.2	705.6	648.6	580.9	513.2	441.9	370.6	295.8	224.5	163.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	0.0	0.0
85°	7.1	3.6	3.6	0.0
82.5°	10.7	7.1	3.6	0.0
80°	14.3	10.7	3.6	0.0
77.5°	17.8	10.7	7.1	0.0
75°	21.4	14.3	7.1	0.0
72.5°	24.9	17.8	7.1	0.0
70°	28.5	17.8	10.7	0.0
67.5°	32.1	21.4	10.7	0.0
65°	39.2	24.9	10.7	0.0
62.5°	42.8	24.9	14.3	0.0
60°	46.3	28.5	14.3	0.0
57.5°	49.9	32.1	14.3	0.0
55°	53.5	32.1	17.8	0.0
52.5°	57.0	35.6	17.8	0.0
50°	60.6	39.2	17.8	0.0
47.5°	64.1	42.8	17.8	0.0
45°	67.7	42.8	21.4	0.0
42.5°	74.8	46.3	21.4	0.0
40°	78.4	46.3	21.4	0.0
37.5°	82.0	49.9	21.4	0.0
35°	82.0	49.9	24.9	0.0
32.5°	85.5	53.5	24.9	0.0
30°	89.1	53.5	24.9	0.0
27.5°	92.7	57.0	24.9	0.0
25°	96.2	57.0	24.9	0.0
22.5°	96.2	57.0	24.9	0.0
20°	99.8	60.6	28.5	0.0
17.5°	99.8	60.6	28.5	0.0
15°	103.3	60.6	28.5	0.0
12.5°	103.3	64.1	28.5	0.0
10°	103.3	64.1	28.5	0.0
7.5°	106.9	64.1	28.5	0.0
5°	106.9	64.1	28.5	0.0
2.5°	106.9	64.1	28.5	0.0
0°	106.9	64.1	28.5	0.0

(END OF REPORT)