

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: P723313

Luminaire Tested: **IFLD-L-SA8D-735-U-22**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P723313  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-735-U-22  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

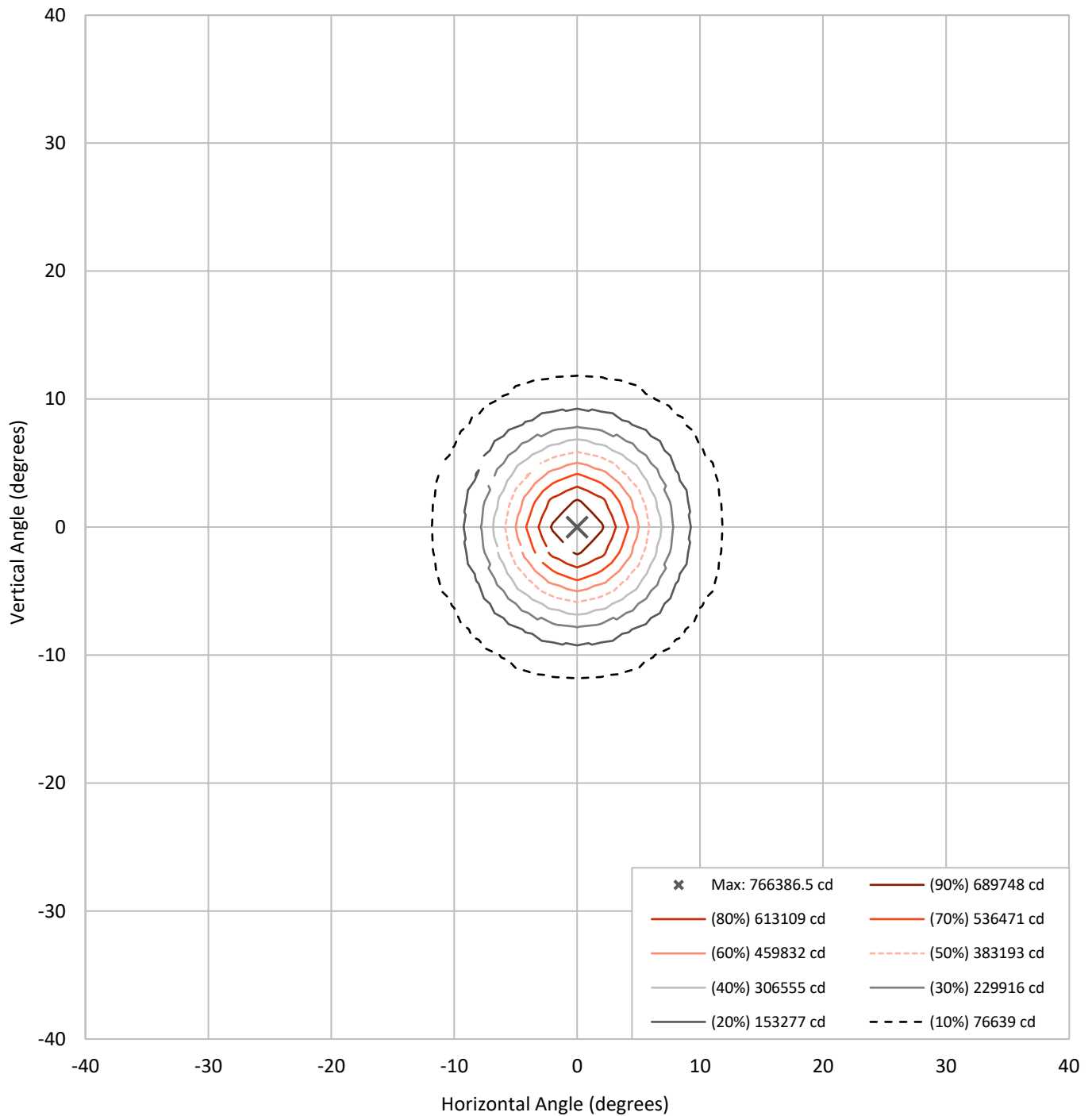
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	51319.2 lumens	Max Intensity:	766386.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	105.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	12431.3 lumens	Field Lumens:	26715.1 lumens
Beam Efficiency:	24.2%	Field Efficiency:	52.1%

Input Watts (W): 488.3  
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: 28.75 FT



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### Iso-Candela Plot





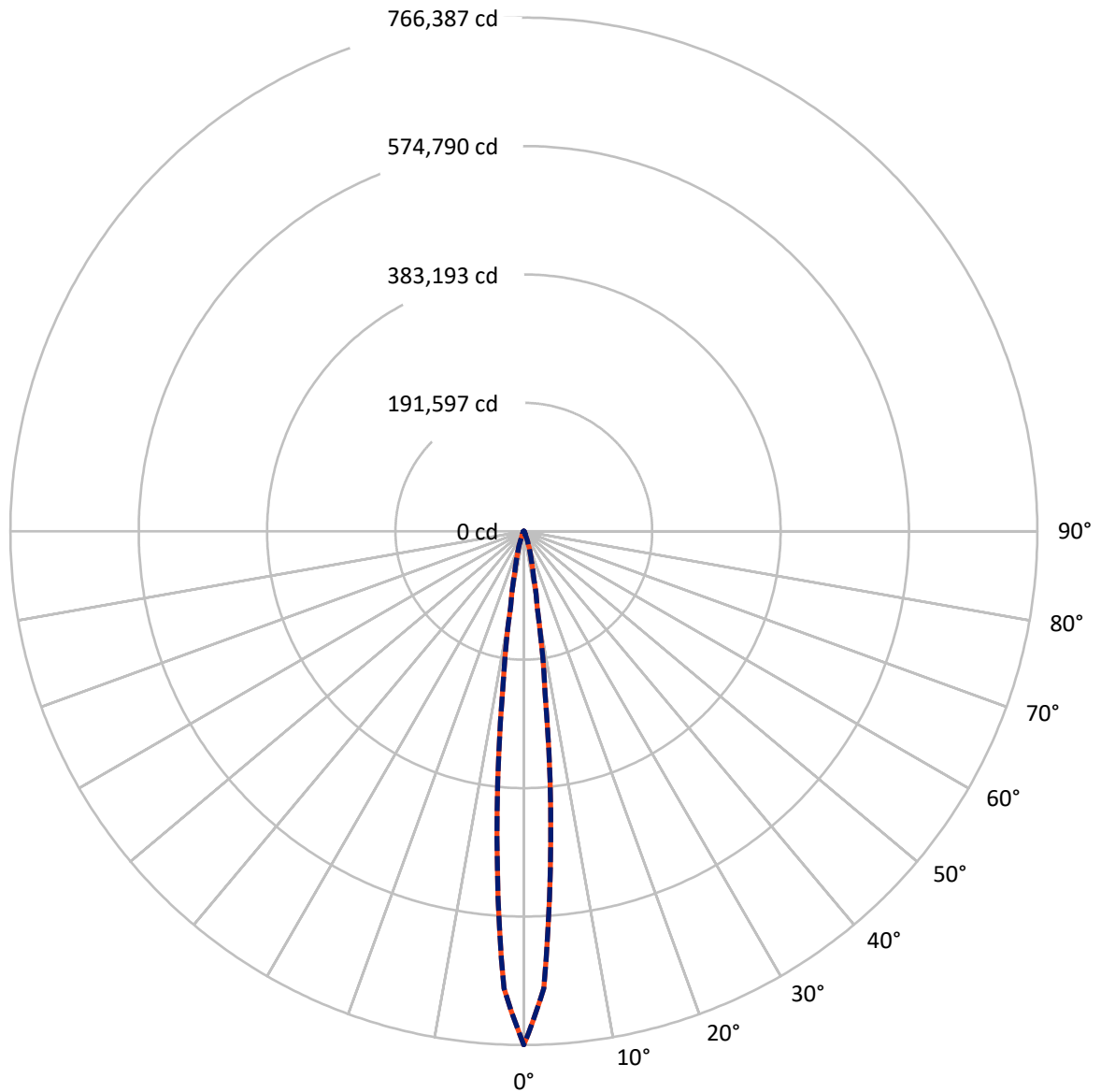
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### Lumen Table

90	1.6	10.9		24.6		37.0		42.1		37.0		24.6		10.9		1.6
80	1.6	10.9		24.6		37.0		42.1		37.0		24.6		10.9		1.6
70	4.9	4.6	8.4	13.1	17.7	21.4	23.9	25.3	25.3	23.9	21.4	17.7	13.1	8.4	4.6	4.9
60		6.3	11.8	17.6	22.2	25.6	28.0	29.2	29.2	28.0	25.6	22.2	17.6	11.8	6.3	
50	7.3	7.9	14.3	19.7	24.1	28.2	32.3	35.1	35.1	32.3	28.2	24.1	19.7	14.3	7.9	7.3
40		9.2	15.6	20.8	26.7	35.9	45.9	52.7	52.7	45.9	35.9	26.7	20.8	15.6	9.2	
30	9.0	10.1	16.3	22.0	32.5	49.4	93.8	179.5	179.5	93.8	49.4	32.5	22.0	16.3	10.1	9.0
20		10.6	16.6	23.7	39.0	88.4	434.1	1212.9	1212.9	434.1	88.4	39.0	23.7	16.6	10.6	
10	9.7	10.8	16.8	25.0	43.5	165.1	1182.2	8412.6	8412.6	1182.2	165.1	43.5	25.0	16.8	10.8	9.7
0		10.8	16.8	25.0	43.5	165.1	1182.2	8412.6	8412.6	1182.2	165.1	43.5	25.0	16.8	10.8	
-10	9.0	10.6	16.6	23.7	39.0	88.4	434.1	1212.9	1212.9	434.1	88.4	39.0	23.7	16.6	10.6	9.0
-20		10.1	16.3	22.0	32.5	49.4	93.8	179.5	179.5	93.8	49.4	32.5	22.0	16.3	10.1	
-30	7.3	9.2	15.6	20.8	26.7	35.9	45.9	52.7	52.7	45.9	35.9	26.7	20.8	15.6	9.2	7.3
-40		7.9	14.3	19.7	24.1	28.2	32.3	35.1	35.1	32.3	28.2	24.1	19.7	14.3	7.9	
-50	4.9	6.3	11.8	17.6	22.2	25.6	28.0	29.2	29.2	28.0	25.6	22.2	17.6	11.8	6.3	4.9
-60		4.6	8.4	13.1	17.7	21.4	23.9	25.3	25.3	23.9	21.4	17.7	13.1	8.4	4.6	
-70	1.6	10.9		24.6		37.0		42.1		37.0		24.6		10.9		1.6
-80		10.9		24.6		37.0		42.1		37.0		24.6		10.9		
-90	1.6	10.9		24.6		37.0		42.1		37.0		24.6		10.9		1.6

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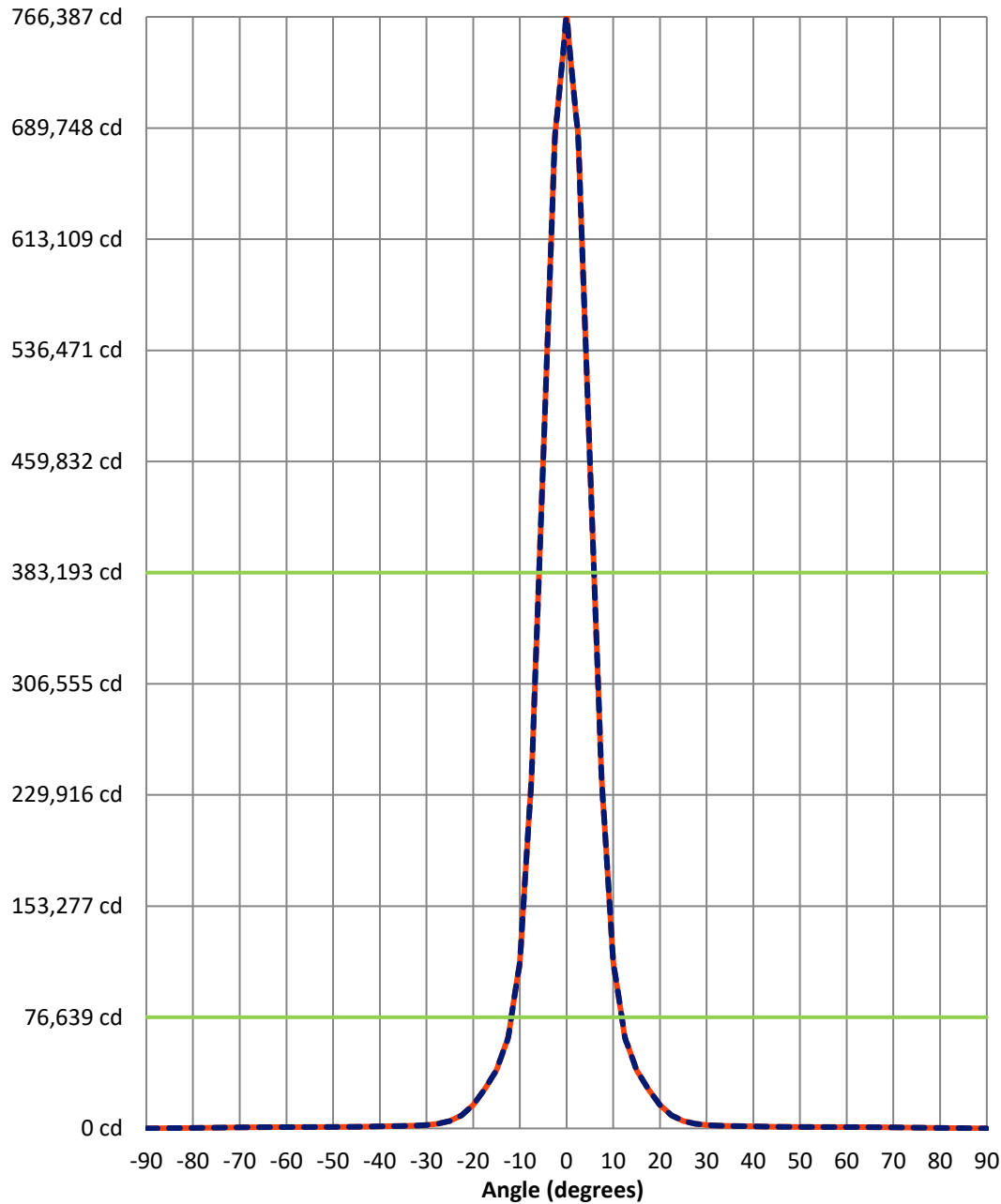
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 11.8°  
 V Angle: 11.8°  
 Lumens: 12431.3  
 Efficiency: 24.2%

**Field:**  
 H Angle: 23.7°  
 V Angle: 23.7°  
 Lumens: 26715.1  
 Efficiency: 52.1%

**Spill:**  
 Lumens: 24604.1  
 Efficiency: 47.9%

- 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°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	68.2	68.2	68.2
85°	196.9	196.9	196.9	196.9	196.9	189.4	189.4	189.4	181.8	181.8	174.2
82.5°	265.1	265.1	265.1	265.1	265.1	257.5	257.5	257.5	249.9	249.9	242.4
80°	340.8	340.8	340.8	340.8	333.3	333.3	333.3	325.7	325.7	318.1	310.5
77.5°	424.2	424.2	424.2	424.2	416.6	416.6	409.0	401.4	401.4	393.9	386.3
75°	515.0	515.0	515.0	507.5	507.5	499.9	492.3	492.3	484.7	469.6	462.0
72.5°	613.5	613.5	613.5	605.9	605.9	598.4	590.8	583.2	568.1	560.5	545.3
70°	712.0	712.0	712.0	704.4	696.8	689.2	681.7	674.1	658.9	651.4	636.2
67.5°	787.7	787.7	787.7	780.1	780.1	772.6	765.0	757.4	742.3	734.7	719.5
65°	848.3	848.3	848.3	840.7	840.7	833.2	825.6	818.0	810.4	802.9	787.7
62.5°	893.7	893.7	893.7	886.2	886.2	878.6	878.6	871.0	863.4	855.9	840.7
60°	916.5	916.5	916.5	916.5	908.9	908.9	908.9	901.3	901.3	893.7	886.2
57.5°	946.8	946.8	946.8	946.8	939.2	939.2	931.6	924.0	924.0	916.5	908.9
55°	961.9	961.9	961.9	961.9	961.9	954.3	954.3	954.3	946.8	939.2	931.6
52.5°	984.6	984.6	984.6	984.6	977.1	977.1	969.5	969.5	961.9	954.3	954.3
50°	1014.9	1014.9	1014.9	1007.4	1007.4	999.8	992.2	984.6	984.6	977.1	969.5
47.5°	1060.4	1060.4	1060.4	1052.8	1045.2	1037.7	1030.1	1014.9	1007.4	999.8	984.6
45°	1128.5	1128.5	1121.0	1113.4	1105.8	1090.7	1075.5	1060.4	1045.2	1030.1	1014.9
42.5°	1264.9	1264.9	1249.7	1234.6	1211.9	1181.6	1151.3	1121.0	1098.2	1075.5	1052.8
40°	1423.9	1423.9	1408.8	1386.1	1355.8	1325.5	1280.0	1234.6	1189.1	1128.5	1098.2
37.5°	1583.0	1583.0	1567.8	1545.1	1514.8	1469.4	1423.9	1370.9	1310.3	1242.2	1181.6
35°	1704.2	1704.2	1689.0	1673.9	1643.6	1613.3	1567.8	1514.8	1446.7	1370.9	1295.2
32.5°	1916.3	1916.3	1886.0	1848.1	1802.6	1742.0	1681.5	1636.0	1583.0	1499.7	1416.4
30°	2348.0	2348.0	2279.8	2204.1	2090.5	1954.1	1855.7	1764.8	1681.5	1613.3	1530.0
27.5°	3256.9	3219.0	3105.4	2916.0	2666.1	2348.0	2166.2	1961.7	1825.4	1704.2	1628.4
25°	5135.2	5044.4	4786.8	4362.7	3779.5	3158.4	2749.4	2317.7	2067.7	1863.2	1726.9
22.5°	8982.9	8778.4	8180.0	7203.0	5877.5	4695.9	3764.3	2991.8	2438.9	2105.6	1863.2
20°	16148.0	15723.9	14451.4	12406.4	9649.4	7521.1	5423.1	4127.9	3075.1	2438.9	2067.7
17.5°	27160.8	26403.4	24169.0	20586.4	16148.0	12156.4	8377.0	5824.5	4127.9	2991.8	2317.7
15°	40248.8	39188.5	36098.2	31182.6	25115.8	18647.5	13019.9	8377.0	5423.1	3764.3	2749.4
12.5°	62728.8	60539.9	54200.3	44323.7	35234.8	26691.2	18647.5	12156.4	7521.1	4695.9	3158.4
10°	115096.2	108711.2	90609.1	63206.0	48285.0	35234.8	25115.8	16148.0	9649.4	5877.5	3779.5
7.5°	242182.2	213802.0	154337.7	102704.9	63206.0	44323.7	31182.6	20586.4	12406.4	7203.0	4362.7
5°	460528.7	402556.4	277356.4	154337.7	90609.1	54200.3	36098.2	24169.0	14451.4	8180.0	4786.8
2.5°	682707.7	602566.0	402556.4	213802.0	108711.2	60539.9	39188.5	26403.4	15723.9	8778.4	5044.4
0°	766386.5	682707.7	460528.7	242182.2	115096.2	62728.8	40248.8	27160.8	16148.0	8982.9	5135.2



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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°	68.2	68.2	60.6	60.6	60.6	60.6	53.0	53.0	53.0	45.4	45.4
85°	166.6	166.6	159.1	151.5	143.9	143.9	136.3	128.8	121.2	113.6	98.5
82.5°	242.4	234.8	234.8	227.2	219.6	219.6	212.1	204.5	196.9	189.4	174.2
80°	303.0	303.0	295.4	287.8	280.2	272.7	257.5	249.9	242.4	234.8	227.2
77.5°	378.7	371.1	356.0	348.4	340.8	325.7	318.1	303.0	295.4	280.2	265.1
75°	454.4	439.3	431.7	416.6	401.4	386.3	371.1	356.0	340.8	325.7	310.5
72.5°	530.2	515.0	507.5	484.7	469.6	454.4	431.7	416.6	401.4	378.7	356.0
70°	621.1	605.9	583.2	568.1	545.3	522.6	499.9	477.2	454.4	431.7	409.0
67.5°	704.4	689.2	666.5	643.8	621.1	598.4	568.1	545.3	515.0	484.7	462.0
65°	772.6	757.4	742.3	719.5	696.8	666.5	636.2	605.9	575.6	545.3	515.0
62.5°	825.6	810.4	795.3	780.1	757.4	734.7	712.0	674.1	643.8	605.9	568.1
60°	871.0	863.4	848.3	825.6	810.4	787.7	765.0	734.7	704.4	658.9	621.1
57.5°	901.3	893.7	886.2	871.0	855.9	833.2	810.4	780.1	749.8	719.5	674.1
55°	924.0	916.5	908.9	901.3	886.2	871.0	848.3	825.6	795.3	765.0	727.1
52.5°	946.8	939.2	924.0	916.5	908.9	893.7	878.6	855.9	833.2	802.9	765.0
50°	961.9	954.3	946.8	939.2	924.0	908.9	901.3	886.2	863.4	833.2	802.9
47.5°	977.1	969.5	961.9	954.3	946.8	931.6	916.5	901.3	886.2	863.4	833.2
45°	999.8	984.6	977.1	961.9	954.3	946.8	931.6	916.5	901.3	886.2	855.9
42.5°	1030.1	1007.4	999.8	984.6	969.5	961.9	946.8	931.6	916.5	901.3	878.6
40°	1067.9	1045.2	1022.5	999.8	984.6	969.5	961.9	946.8	931.6	908.9	893.7
37.5°	1121.0	1083.1	1052.8	1022.5	999.8	984.6	969.5	954.3	946.8	924.0	908.9
35°	1219.4	1136.1	1090.7	1052.8	1022.5	999.8	984.6	961.9	954.3	939.2	916.5
32.5°	1325.5	1234.6	1143.7	1090.7	1052.8	1022.5	999.8	977.1	961.9	946.8	924.0
30°	1439.1	1333.0	1234.6	1136.1	1083.1	1045.2	1007.4	984.6	969.5	954.3	939.2
27.5°	1545.1	1439.1	1325.5	1219.4	1121.0	1067.9	1030.1	999.8	977.1	961.9	946.8
25°	1628.4	1530.0	1416.4	1295.2	1181.6	1098.2	1052.8	1014.9	984.6	969.5	954.3
22.5°	1704.2	1613.3	1499.7	1370.9	1242.2	1128.5	1075.5	1030.1	999.8	977.1	954.3
20°	1825.4	1681.5	1583.0	1446.7	1310.3	1189.1	1098.2	1045.2	1007.4	984.6	961.9
17.5°	1961.7	1764.8	1636.0	1514.8	1370.9	1234.6	1121.0	1060.4	1014.9	984.6	969.5
15°	2166.2	1855.7	1681.5	1567.8	1423.9	1280.0	1151.3	1075.5	1030.1	992.2	969.5
12.5°	2348.0	1954.1	1742.0	1613.3	1469.4	1325.5	1181.6	1090.7	1037.7	999.8	977.1
10°	2666.1	2090.5	1802.6	1643.6	1514.8	1355.8	1211.9	1105.8	1045.2	1007.4	977.1
7.5°	2916.0	2204.1	1848.1	1673.9	1545.1	1386.1	1234.6	1113.4	1052.8	1007.4	984.6
5°	3105.4	2279.8	1886.0	1689.0	1567.8	1408.8	1249.7	1121.0	1060.4	1014.9	984.6
2.5°	3219.0	2348.0	1916.3	1704.2	1583.0	1423.9	1264.9	1128.5	1060.4	1014.9	984.6
0°	3256.9	2348.0	1916.3	1704.2	1583.0	1423.9	1264.9	1128.5	1060.4	1014.9	984.6





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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°	45.4	37.9	37.9	37.9	30.3	30.3	22.7	22.7	22.7	15.1	15.1
85°	90.9	83.3	75.7	68.2	60.6	60.6	53.0	45.4	37.9	30.3	22.7
82.5°	159.1	151.5	136.3	121.2	106.0	90.9	75.7	68.2	60.6	45.4	37.9
80°	219.6	204.5	196.9	174.2	159.1	136.3	121.2	98.5	75.7	68.2	53.0
77.5°	257.5	242.4	227.2	219.6	204.5	181.8	159.1	136.3	113.6	83.3	68.2
75°	295.4	280.2	265.1	249.9	234.8	212.1	196.9	174.2	143.9	113.6	75.7
72.5°	340.8	318.1	303.0	280.2	257.5	242.4	219.6	204.5	174.2	136.3	98.5
70°	386.3	363.6	333.3	310.5	287.8	265.1	242.4	219.6	196.9	159.1	121.2
67.5°	431.7	401.4	378.7	348.4	318.1	295.4	265.1	242.4	212.1	181.8	136.3
65°	477.2	446.9	416.6	386.3	348.4	318.1	287.8	257.5	234.8	204.5	159.1
62.5°	530.2	492.3	454.4	416.6	386.3	348.4	310.5	280.2	249.9	219.6	174.2
60°	583.2	537.8	492.3	454.4	416.6	378.7	333.3	303.0	265.1	227.2	196.9
57.5°	628.7	583.2	537.8	492.3	446.9	401.4	363.6	318.1	280.2	242.4	204.5
55°	681.7	628.7	583.2	530.2	477.2	431.7	386.3	340.8	295.4	257.5	219.6
52.5°	727.1	674.1	621.1	568.1	515.0	462.0	409.0	356.0	310.5	265.1	227.2
50°	765.0	719.5	658.9	605.9	545.3	484.7	431.7	378.7	325.7	280.2	234.8
47.5°	795.3	749.8	704.4	643.8	575.6	515.0	454.4	401.4	340.8	295.4	242.4
45°	825.6	780.1	734.7	674.1	605.9	545.3	477.2	416.6	356.0	303.0	249.9
42.5°	848.3	810.4	765.0	712.0	636.2	568.1	499.9	431.7	371.1	318.1	257.5
40°	871.0	833.2	787.7	734.7	666.5	598.4	522.6	454.4	386.3	325.7	272.7
37.5°	886.2	855.9	810.4	757.4	696.8	621.1	545.3	469.6	401.4	340.8	280.2
35°	901.3	871.0	825.6	780.1	719.5	643.8	568.1	484.7	416.6	348.4	287.8
32.5°	908.9	886.2	848.3	795.3	742.3	666.5	583.2	507.5	431.7	356.0	295.4
30°	916.5	893.7	863.4	810.4	757.4	689.2	605.9	515.0	439.3	371.1	303.0
27.5°	924.0	901.3	871.0	825.6	772.6	704.4	621.1	530.2	454.4	378.7	303.0
25°	931.6	908.9	886.2	840.7	787.7	719.5	636.2	545.3	462.0	386.3	310.5
22.5°	939.2	916.5	893.7	855.9	802.9	734.7	651.4	560.5	469.6	393.9	318.1
20°	946.8	924.0	901.3	863.4	810.4	742.3	658.9	568.1	484.7	401.4	325.7
17.5°	954.3	924.0	901.3	871.0	818.0	757.4	674.1	583.2	492.3	401.4	325.7
15°	954.3	931.6	908.9	878.6	825.6	765.0	681.7	590.8	492.3	409.0	333.3
12.5°	954.3	939.2	908.9	878.6	833.2	772.6	689.2	598.4	499.9	416.6	333.3
10°	961.9	939.2	908.9	886.2	840.7	780.1	696.8	605.9	507.5	416.6	333.3
7.5°	961.9	946.8	916.5	886.2	840.7	780.1	704.4	605.9	507.5	424.2	340.8
5°	961.9	946.8	916.5	893.7	848.3	787.7	712.0	613.5	515.0	424.2	340.8
2.5°	961.9	946.8	916.5	893.7	848.3	787.7	712.0	613.5	515.0	424.2	340.8
0°	961.9	946.8	916.5	893.7	848.3	787.7	712.0	613.5	515.0	424.2	340.8



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	7.6	0.0	0.0
85°	22.7	15.1	7.6	0.0
82.5°	30.3	22.7	7.6	0.0
80°	37.9	22.7	15.1	0.0
77.5°	45.4	30.3	15.1	0.0
75°	60.6	37.9	22.7	0.0
72.5°	68.2	45.4	22.7	0.0
70°	75.7	53.0	22.7	0.0
67.5°	90.9	60.6	30.3	0.0
65°	106.0	60.6	30.3	0.0
62.5°	121.2	68.2	37.9	0.0
60°	136.3	75.7	37.9	0.0
57.5°	151.5	83.3	37.9	0.0
55°	159.1	90.9	45.4	0.0
52.5°	174.2	98.5	45.4	0.0
50°	189.4	113.6	45.4	0.0
47.5°	196.9	121.2	53.0	0.0
45°	204.5	128.8	53.0	0.0
42.5°	212.1	136.3	53.0	0.0
40°	219.6	143.9	60.6	0.0
37.5°	219.6	143.9	60.6	0.0
35°	227.2	151.5	60.6	0.0
32.5°	234.8	159.1	60.6	0.0
30°	234.8	166.6	68.2	0.0
27.5°	242.4	166.6	68.2	0.0
25°	242.4	174.2	68.2	0.0
22.5°	249.9	181.8	68.2	0.0
20°	249.9	181.8	68.2	0.0
17.5°	257.5	189.4	75.7	0.0
15°	257.5	189.4	75.7	0.0
12.5°	257.5	189.4	75.7	0.0
10°	265.1	196.9	75.7	0.0
7.5°	265.1	196.9	75.7	0.0
5°	265.1	196.9	75.7	0.0
2.5°	265.1	196.9	75.7	0.0
0°	265.1	196.9	75.7	0.0

(END OF REPORT)