

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: P622977

Luminaire Tested: **IFLD-S-SA6E-722-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P622977  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-722-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	40554.8 lumens	Max Intensity:	377369.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

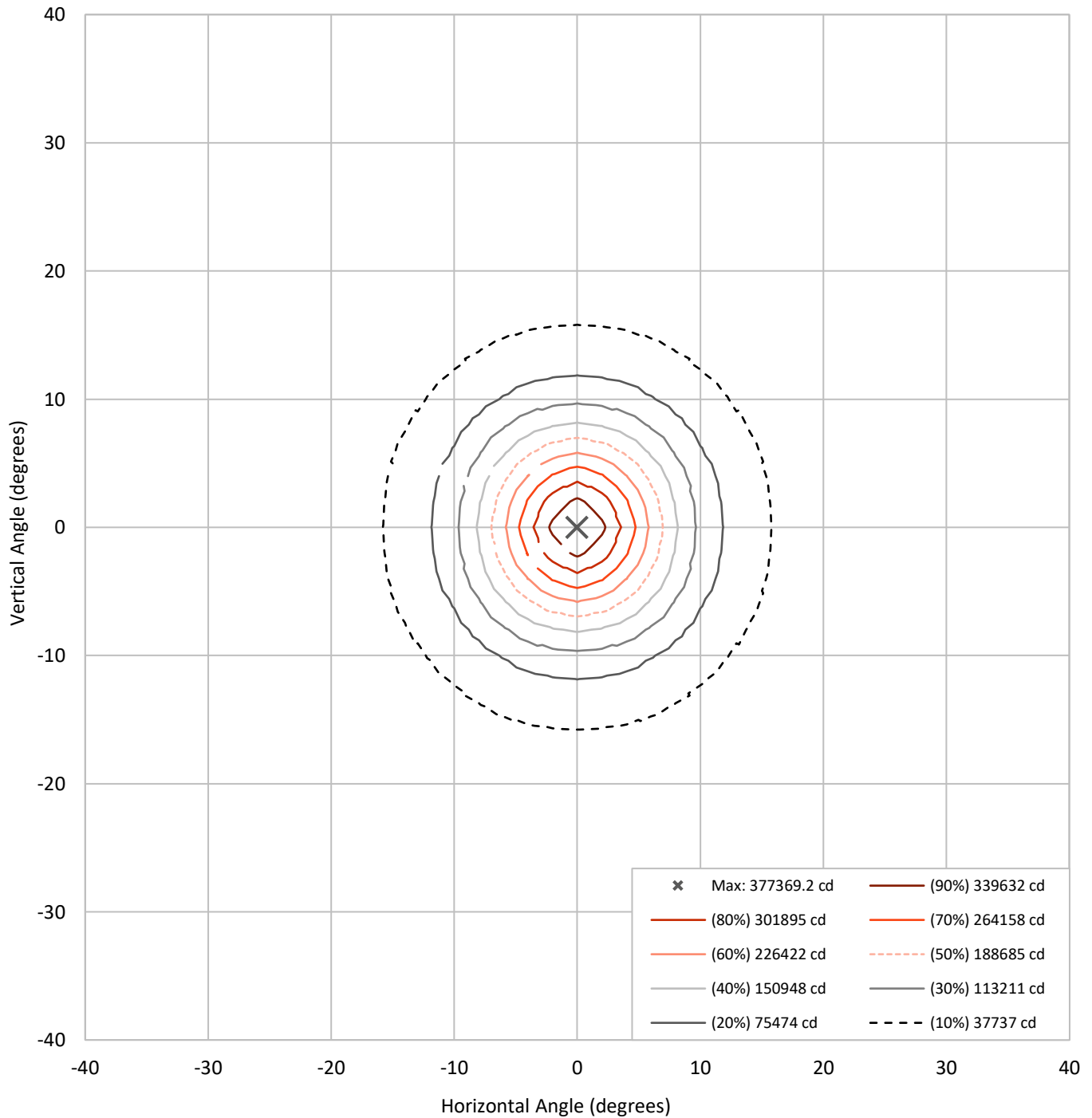
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	8868.2 lumens	Field Lumens:	20648.9 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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-Candela Plot





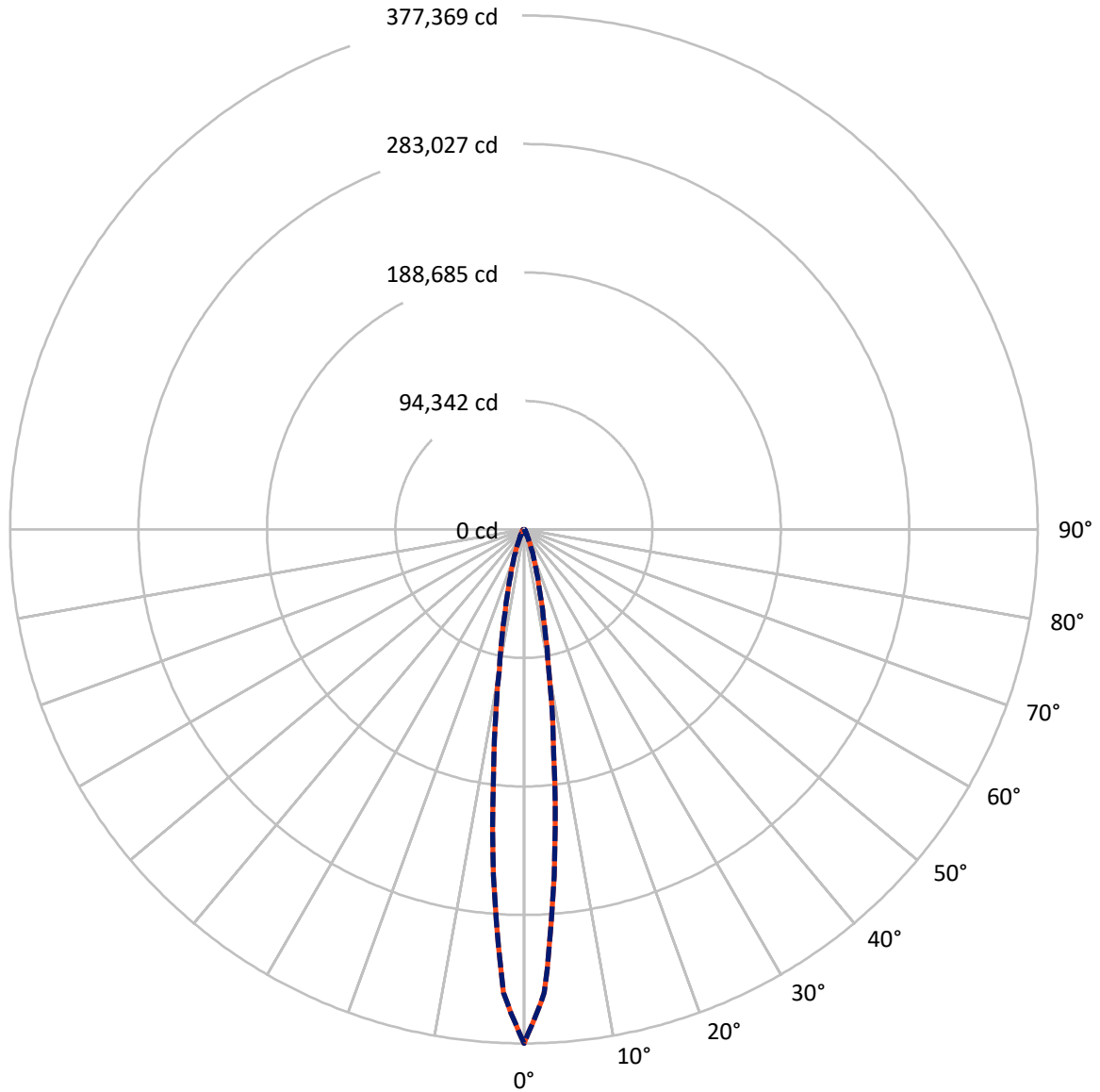
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### Lumen Table

90	0.7	5.2		13.9		22.7		26.3		22.7		13.9		5.2		0.7
80	0.7	5.2		13.9		22.7		26.3		22.7		13.9		5.2		0.7
70	2.4	2.7	5.6	9.3	13.2	16.7	19.3	20.7	20.7	19.3	16.7	13.2	9.3	5.6	2.7	2.4
60		4.2	8.7	14.0	19.4	24.1	27.8	29.8	29.8	27.8	24.1	19.4	14.0	8.7	4.2	
50	4.3	5.6	11.4	18.0	24.9	32.0	38.7	42.9	42.9	38.7	32.0	24.9	18.0	11.4	5.6	4.3
40		6.9	13.6	21.5	31.6	45.2	61.8	75.9	75.9	61.8	45.2	31.6	21.5	13.6	6.9	
30	5.8	7.9	15.3	25.1	40.9	72.2	147.5	252.4	252.4	147.5	72.2	40.9	25.1	15.3	7.9	5.8
20		8.5	16.6	28.5	52.6	139.0	500.0	1241.7	1241.7	500.0	139.0	52.6	28.5	16.6	8.5	
10	6.4	8.9	17.2	30.6	62.9	231.6	1209.9	5312.4	5312.4	1209.9	231.6	62.9	30.6	17.2	8.9	6.4
0		8.9	17.2	30.6	62.9	231.6	1209.9	5312.4	5312.4	1209.9	231.6	62.9	30.6	17.2	8.9	
-10	5.8	8.5	16.6	28.5	52.6	139.0	500.0	1241.7	1241.7	500.0	139.0	52.6	28.5	16.6	8.5	5.8
-20		7.9	15.3	25.1	40.9	72.2	147.5	252.4	252.4	147.5	72.2	40.9	25.1	15.3	7.9	
-30	4.3	6.9	13.6	21.5	31.6	45.2	61.8	75.9	75.9	61.8	45.2	31.6	21.5	13.6	6.9	4.3
-40		5.6	11.4	18.0	24.9	32.0	38.7	42.9	42.9	38.7	32.0	24.9	18.0	11.4	5.6	
-50	2.4	4.2	8.7	14.0	19.4	24.1	27.8	29.8	29.8	27.8	24.1	19.4	14.0	8.7	4.2	2.4
-60		2.7	5.6	9.3	13.2	16.7	19.3	20.7	20.7	19.3	16.7	13.2	9.3	5.6	2.7	
-70	0.7	5.2		13.9		22.7		26.3		22.7		13.9		5.2		0.7
-80		5.2		13.9		22.7		26.3		22.7		13.9		5.2		
-90	0.7	5.2		13.9		22.7		26.3		22.7		13.9		5.2		0.7

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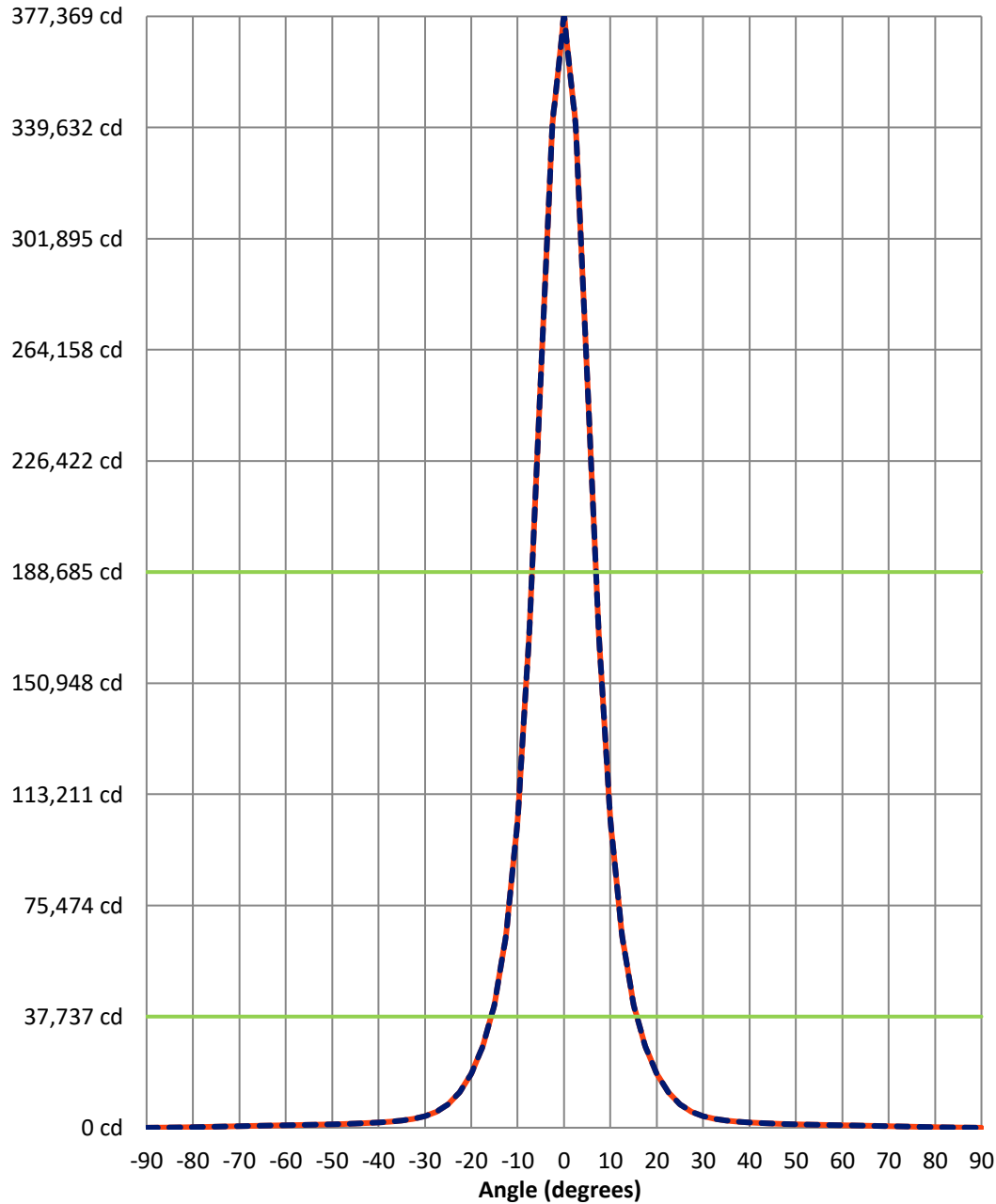
### Luminous Intensity Polar Plot



— 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: 8868.2  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 20648.9  
Efficiency: 50.9%

**Spill:**  
Lumens: 19905.9  
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°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	29.5	29.5
85°	75.9	75.9	75.9	75.9	75.9	75.9	71.7	71.7	71.7	67.5	67.5
82.5°	126.6	126.6	126.6	126.6	122.4	122.4	122.4	118.1	118.1	113.9	113.9
80°	194.1	194.1	194.1	194.1	189.9	185.6	185.6	181.4	177.2	173.0	168.8
77.5°	265.8	265.8	265.8	261.6	261.6	257.4	253.1	248.9	244.7	236.3	232.0
75°	350.2	350.2	350.2	346.0	341.7	337.5	333.3	324.9	320.6	312.2	303.8
72.5°	438.8	438.8	438.8	434.6	430.3	421.9	417.7	409.2	400.8	388.2	379.7
70°	523.2	523.2	523.2	518.9	510.5	506.3	497.8	489.4	481.0	468.3	455.7
67.5°	607.5	607.5	607.5	599.1	594.9	590.7	582.2	569.6	561.1	548.5	531.6
65°	687.7	687.7	683.5	679.3	675.0	666.6	658.2	649.7	637.1	624.4	607.5
62.5°	767.9	767.9	763.6	759.4	755.2	746.8	734.1	725.7	708.8	696.1	679.3
60°	835.4	835.4	831.2	826.9	822.7	814.3	805.8	793.2	780.5	767.9	751.0
57.5°	907.1	907.1	902.9	898.7	890.2	881.8	873.3	860.7	843.8	826.9	814.3
55°	987.3	987.3	983.0	974.6	966.2	957.7	945.1	928.2	911.3	894.4	873.3
52.5°	1063.2	1063.2	1059.0	1050.5	1042.1	1033.7	1016.8	1004.1	983.0	961.9	936.6
50°	1156.0	1156.0	1147.6	1139.1	1130.7	1113.8	1097.0	1075.9	1054.8	1029.4	1008.4
47.5°	1261.5	1261.5	1253.1	1244.6	1227.7	1210.9	1185.6	1160.2	1134.9	1105.4	1071.6
45°	1409.2	1409.2	1396.5	1379.6	1358.5	1329.0	1295.2	1261.5	1223.5	1189.8	1151.8
42.5°	1590.6	1590.6	1573.7	1552.6	1523.1	1485.1	1438.7	1392.3	1341.7	1286.8	1236.2
40°	1780.4	1780.4	1759.3	1738.3	1704.5	1658.1	1607.5	1548.4	1485.1	1413.4	1350.1
37.5°	2042.0	2042.0	2012.5	1974.5	1923.9	1860.6	1784.7	1717.2	1645.4	1565.3	1480.9
35°	2430.2	2430.2	2383.8	2320.5	2240.3	2134.8	2020.9	1923.9	1814.2	1717.2	1624.3
32.5°	3004.0	3004.0	2923.8	2831.0	2696.0	2527.2	2362.7	2206.6	2042.0	1902.8	1767.8
30°	3906.8	3906.8	3771.8	3603.1	3375.2	3084.1	2839.4	2586.3	2345.8	2143.3	1957.6
27.5°	5408.8	5345.5	5159.9	4851.9	4430.0	3906.8	3531.3	3105.2	2767.7	2438.6	2198.1
25°	7940.3	7822.1	7471.9	6893.9	6113.4	5248.5	4565.0	3839.3	3324.6	2856.3	2480.8
22.5°	12053.8	11838.7	11197.4	10151.0	8737.7	7353.8	6092.3	4974.3	4054.5	3400.6	2856.3
20°	18314.9	17939.4	16834.0	15045.2	12631.9	10492.8	8244.0	6585.9	5113.5	4054.5	3324.6
17.5°	27723.4	27073.7	25170.9	22103.6	18314.9	14830.0	11404.1	8674.4	6585.9	4974.3	3839.3
15°	41798.2	40659.0	37334.4	32047.9	25976.7	20449.8	15585.2	11404.1	8244.0	6092.3	4565.0
12.5°	65429.1	63125.5	56467.8	46084.7	36406.2	27322.6	20449.8	14830.0	10492.8	7353.8	5248.5
10°	104472.2	99713.2	86216.4	65787.7	50248.9	36406.2	25976.7	18314.9	12631.9	8737.7	6113.4
7.5°	167758.1	157543.7	129634.7	95236.7	65787.7	46084.7	32047.9	22103.6	15045.2	10151.0	6893.9
5°	255046.1	234490.9	182891.8	129634.7	86216.4	56467.8	37334.4	25170.9	16834.0	11197.4	7471.9
2.5°	340625.4	305198.0	234490.9	157543.7	99713.2	63125.5	40659.0	27073.7	17939.4	11838.7	7822.1
0°	377369.2	340625.4	255046.1	167758.1	104472.2	65429.1	41798.2	27723.4	18314.9	12053.8	7940.3



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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°	29.5	29.5	29.5	29.5	25.3	25.3	25.3	25.3	21.1	21.1	21.1
85°	67.5	63.3	63.3	59.1	59.1	54.8	54.8	50.6	50.6	46.4	42.2
82.5°	109.7	105.5	101.3	97.0	97.0	92.8	88.6	80.2	75.9	71.7	67.5
80°	164.5	156.1	151.9	143.4	139.2	130.8	122.4	118.1	109.7	105.5	97.0
77.5°	223.6	215.2	211.0	198.3	189.9	181.4	173.0	160.3	151.9	139.2	126.6
75°	291.1	282.7	270.0	257.4	248.9	236.3	223.6	211.0	194.1	181.4	168.8
72.5°	367.1	354.4	341.7	324.9	308.0	295.3	274.2	257.4	244.7	227.8	211.0
70°	443.0	430.3	413.5	396.6	375.5	358.6	337.5	316.4	295.3	274.2	253.1
67.5°	518.9	502.1	485.2	464.1	443.0	421.9	400.8	375.5	350.2	324.9	299.6
65°	590.7	573.8	552.7	531.6	510.5	485.2	459.9	434.6	405.0	375.5	350.2
62.5°	662.4	641.3	620.2	599.1	573.8	548.5	523.2	489.4	459.9	430.3	396.6
60°	729.9	708.8	687.7	662.4	637.1	607.5	578.0	548.5	514.7	481.0	447.2
57.5°	793.2	772.1	751.0	721.5	696.1	666.6	632.9	603.3	565.4	531.6	493.6
55°	852.2	831.2	805.8	780.5	755.2	721.5	687.7	654.0	616.0	578.0	535.8
52.5°	911.3	886.0	860.7	835.4	805.8	776.3	742.6	704.6	666.6	624.4	582.2
50°	978.8	949.3	915.5	886.0	852.2	822.7	789.0	751.0	713.0	666.6	624.4
47.5°	1042.1	1012.6	978.8	940.8	907.1	869.1	831.2	797.4	755.2	713.0	666.6
45°	1113.8	1071.6	1037.9	999.9	957.7	915.5	877.6	835.4	797.4	751.0	704.6
42.5°	1189.8	1143.4	1097.0	1050.5	1012.6	966.2	919.8	877.6	831.2	789.0	742.6
40°	1278.4	1223.5	1164.5	1113.8	1063.2	1016.8	966.2	915.5	869.1	822.7	776.3
37.5°	1392.3	1316.3	1240.4	1177.1	1118.0	1063.2	1012.6	957.7	907.1	852.2	805.8
35°	1527.3	1421.8	1333.2	1244.6	1177.1	1113.8	1050.5	999.9	940.8	886.0	835.4
32.5°	1662.3	1548.4	1434.5	1333.2	1240.4	1164.5	1097.0	1037.9	978.8	915.5	860.7
30°	1801.5	1675.0	1548.4	1421.8	1316.3	1223.5	1143.4	1071.6	1012.6	949.3	886.0
27.5°	1978.7	1801.5	1662.3	1527.3	1392.3	1278.4	1189.8	1113.8	1042.1	978.8	911.3
25°	2198.1	1957.6	1767.8	1624.3	1480.9	1350.1	1236.2	1151.8	1071.6	1008.4	936.6
22.5°	2438.6	2143.3	1902.8	1717.2	1565.3	1413.4	1286.8	1189.8	1105.4	1029.4	961.9
20°	2767.7	2345.8	2042.0	1814.2	1645.4	1485.1	1341.7	1223.5	1134.9	1054.8	983.0
17.5°	3105.2	2586.3	2206.6	1923.9	1717.2	1548.4	1392.3	1261.5	1160.2	1075.9	1004.1
15°	3531.3	2839.4	2362.7	2020.9	1784.7	1607.5	1438.7	1295.2	1185.6	1097.0	1016.8
12.5°	3906.8	3084.1	2527.2	2134.8	1860.6	1658.1	1485.1	1329.0	1210.9	1113.8	1033.7
10°	4430.0	3375.2	2696.0	2240.3	1923.9	1704.5	1523.1	1358.5	1227.7	1130.7	1042.1
7.5°	4851.9	3603.1	2831.0	2320.5	1974.5	1738.3	1552.6	1379.6	1244.6	1139.1	1050.5
5°	5159.9	3771.8	2923.8	2383.8	2012.5	1759.3	1573.7	1396.5	1253.1	1147.6	1059.0
2.5°	5345.5	3906.8	3004.0	2430.2	2042.0	1780.4	1590.6	1409.2	1261.5	1156.0	1063.2
0°	5408.8	3906.8	3004.0	2430.2	2042.0	1780.4	1590.6	1409.2	1261.5	1156.0	1063.2





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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°	21.1	16.9	16.9	16.9	12.7	12.7	12.7	8.4	8.4	8.4	4.2
85°	38.0	38.0	33.8	29.5	29.5	25.3	21.1	21.1	16.9	12.7	12.7
82.5°	63.3	59.1	54.8	50.6	46.4	38.0	33.8	29.5	25.3	21.1	16.9
80°	88.6	84.4	75.9	67.5	63.3	54.8	50.6	42.2	33.8	29.5	25.3
77.5°	118.1	109.7	101.3	92.8	80.2	71.7	63.3	54.8	46.4	38.0	29.5
75°	156.1	139.2	126.6	113.9	101.3	88.6	75.9	67.5	54.8	46.4	33.8
72.5°	194.1	177.2	156.1	139.2	122.4	109.7	92.8	80.2	67.5	54.8	42.2
70°	232.0	211.0	189.9	168.8	147.7	126.6	109.7	92.8	75.9	63.3	50.6
67.5°	270.0	248.9	223.6	198.3	177.2	151.9	126.6	109.7	88.6	71.7	54.8
65°	316.4	286.9	257.4	232.0	202.5	177.2	147.7	122.4	101.3	80.2	63.3
62.5°	362.8	329.1	295.3	261.6	232.0	198.3	168.8	139.2	113.9	92.8	67.5
60°	409.2	371.3	333.3	295.3	257.4	223.6	189.9	156.1	126.6	101.3	75.9
57.5°	455.7	413.5	371.3	329.1	286.9	248.9	211.0	177.2	139.2	109.7	84.4
55°	497.8	455.7	409.2	362.8	316.4	270.0	232.0	194.1	156.1	118.1	88.6
52.5°	535.8	493.6	447.2	396.6	350.2	299.6	253.1	211.0	168.8	126.6	97.0
50°	578.0	531.6	481.0	430.3	375.5	324.9	274.2	227.8	181.4	139.2	105.5
47.5°	616.0	565.4	514.7	459.9	405.0	350.2	295.3	244.7	194.1	151.9	109.7
45°	654.0	603.3	548.5	489.4	434.6	375.5	316.4	257.4	211.0	160.3	118.1
42.5°	687.7	632.9	578.0	523.2	459.9	400.8	337.5	274.2	223.6	173.0	122.4
40°	721.5	666.6	607.5	548.5	485.2	421.9	358.6	295.3	236.3	181.4	130.8
37.5°	755.2	696.1	637.1	573.8	510.5	443.0	375.5	308.0	248.9	189.9	139.2
35°	780.5	721.5	662.4	599.1	531.6	464.1	396.6	324.9	257.4	198.3	143.4
32.5°	805.8	751.0	687.7	620.2	552.7	485.2	413.5	341.7	270.0	211.0	151.9
30°	831.2	772.1	708.8	641.3	573.8	502.1	430.3	354.4	282.7	215.2	156.1
27.5°	852.2	793.2	729.9	662.4	590.7	518.9	443.0	367.1	291.1	223.6	164.5
25°	873.3	814.3	751.0	679.3	607.5	531.6	455.7	379.7	303.8	232.0	168.8
22.5°	894.4	826.9	767.9	696.1	624.4	548.5	468.3	388.2	312.2	236.3	173.0
20°	911.3	843.8	780.5	708.8	637.1	561.1	481.0	400.8	320.6	244.7	177.2
17.5°	928.2	860.7	793.2	725.7	649.7	569.6	489.4	409.2	324.9	248.9	181.4
15°	945.1	873.3	805.8	734.1	658.2	582.2	497.8	417.7	333.3	253.1	185.6
12.5°	957.7	881.8	814.3	746.8	666.6	590.7	506.3	421.9	337.5	257.4	185.6
10°	966.2	890.2	822.7	755.2	675.0	594.9	510.5	430.3	341.7	261.6	189.9
7.5°	974.6	898.7	826.9	759.4	679.3	599.1	518.9	434.6	346.0	261.6	194.1
5°	983.0	902.9	831.2	763.6	683.5	607.5	523.2	438.8	350.2	265.8	194.1
2.5°	987.3	907.1	835.4	767.9	687.7	607.5	523.2	438.8	350.2	265.8	194.1
0°	987.3	907.1	835.4	767.9	687.7	607.5	523.2	438.8	350.2	265.8	194.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	0.0	0.0
85°	8.4	4.2	4.2	0.0
82.5°	12.7	8.4	4.2	0.0
80°	16.9	12.7	4.2	0.0
77.5°	21.1	12.7	8.4	0.0
75°	25.3	16.9	8.4	0.0
72.5°	29.5	21.1	8.4	0.0
70°	33.8	21.1	12.7	0.0
67.5°	38.0	25.3	12.7	0.0
65°	46.4	29.5	12.7	0.0
62.5°	50.6	29.5	16.9	0.0
60°	54.8	33.8	16.9	0.0
57.5°	59.1	38.0	16.9	0.0
55°	63.3	38.0	21.1	0.0
52.5°	67.5	42.2	21.1	0.0
50°	71.7	46.4	21.1	0.0
47.5°	75.9	50.6	21.1	0.0
45°	80.2	50.6	25.3	0.0
42.5°	88.6	54.8	25.3	0.0
40°	92.8	54.8	25.3	0.0
37.5°	97.0	59.1	25.3	0.0
35°	97.0	59.1	29.5	0.0
32.5°	101.3	63.3	29.5	0.0
30°	105.5	63.3	29.5	0.0
27.5°	109.7	67.5	29.5	0.0
25°	113.9	67.5	29.5	0.0
22.5°	113.9	67.5	29.5	0.0
20°	118.1	71.7	33.8	0.0
17.5°	118.1	71.7	33.8	0.0
15°	122.4	71.7	33.8	0.0
12.5°	122.4	75.9	33.8	0.0
10°	122.4	75.9	33.8	0.0
7.5°	126.6	75.9	33.8	0.0
5°	126.6	75.9	33.8	0.0
2.5°	126.6	75.9	33.8	0.0
0°	126.6	75.9	33.8	0.0

(END OF REPORT)