

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: P623222

Luminaire Tested: **IFLD-L-SA8C-830-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623222  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	41888.7 lumens	Max Intensity:	389780.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

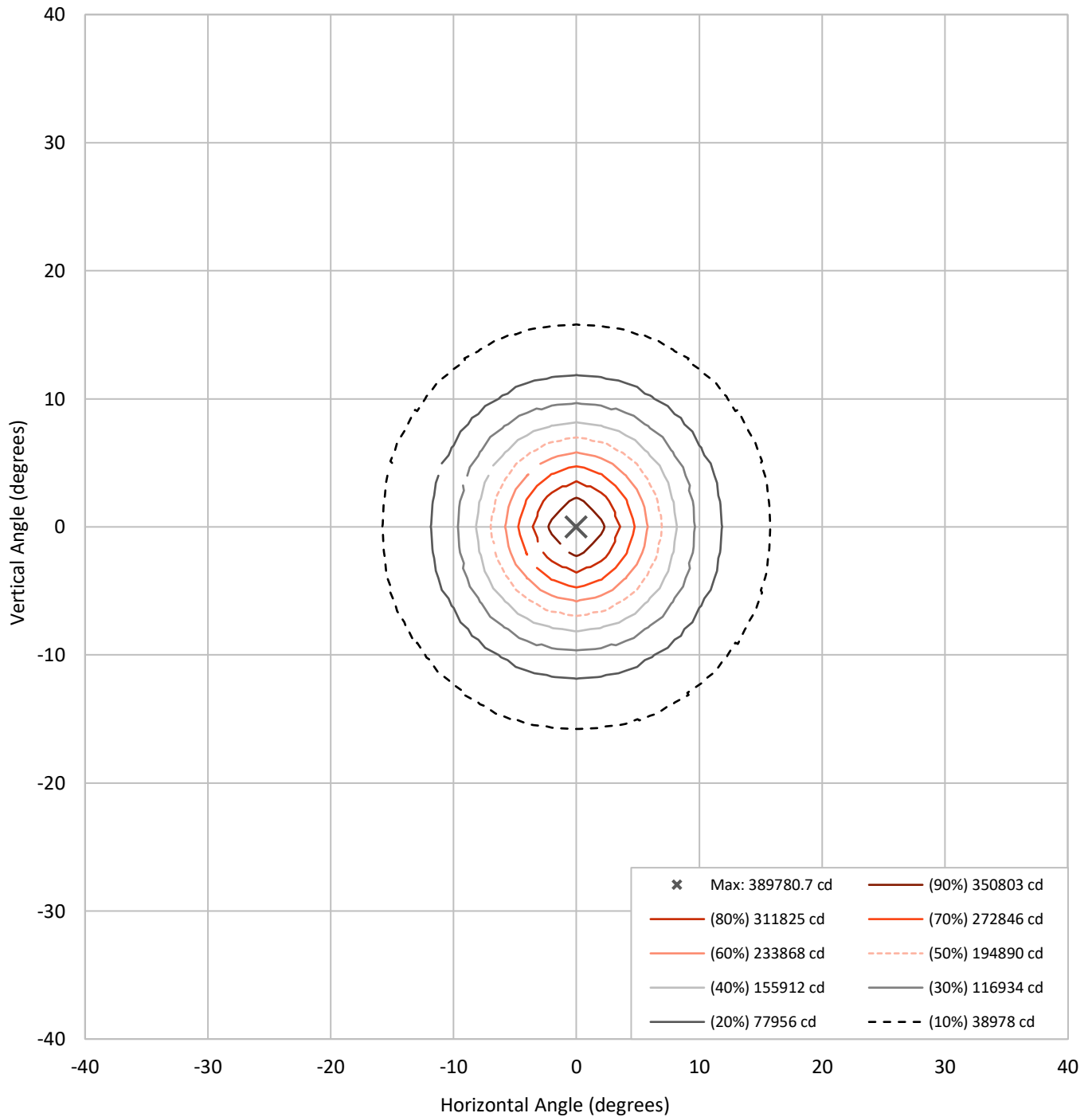
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	9159.9 lumens	Field Lumens:	21328.1 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 420.3  
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: 25 FT



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### Iso-Candela Plot





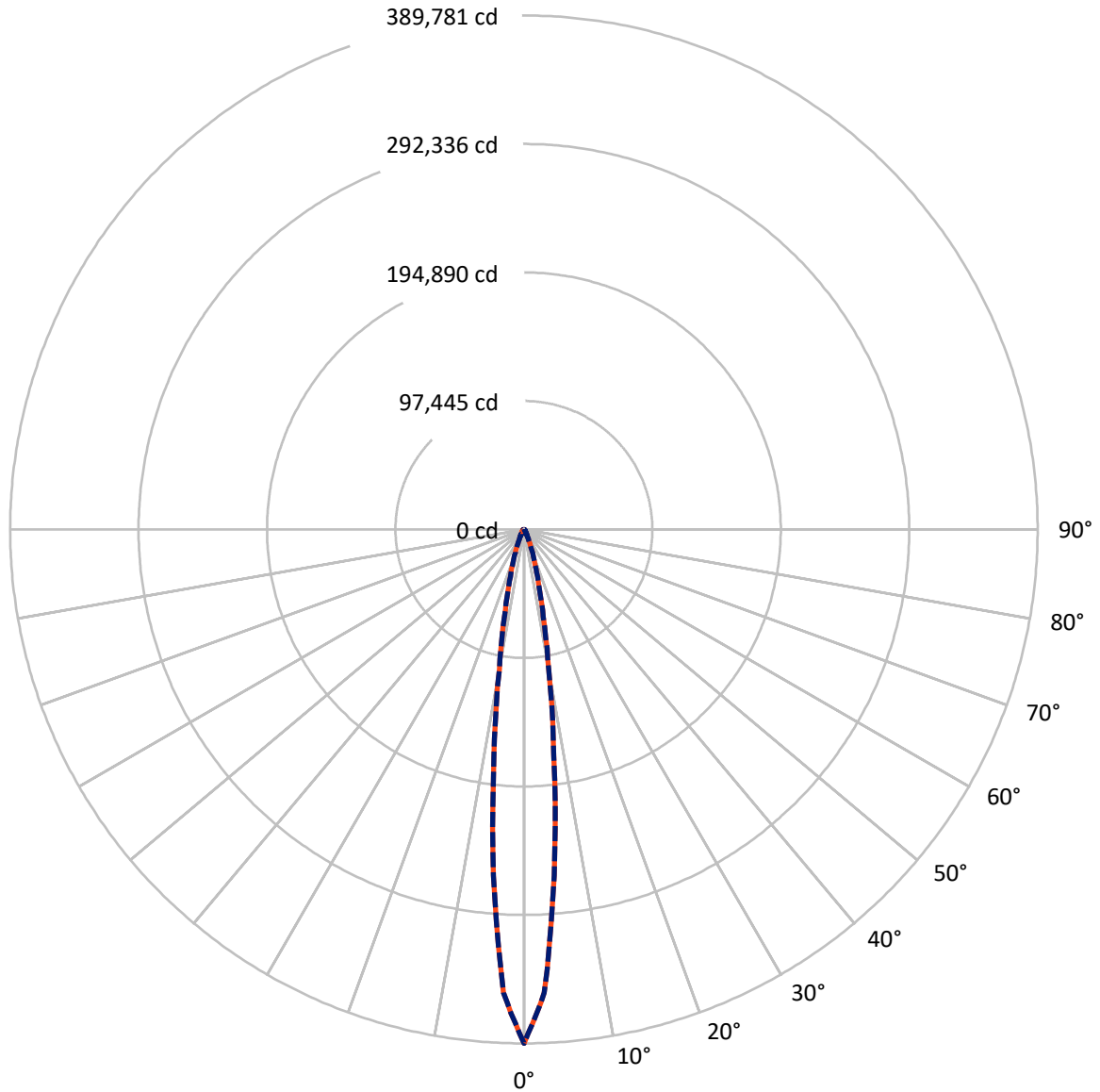
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### Lumen Table

90	0.7	5.4		14.4		23.4		27.2		23.4		14.4		5.4		0.7
80	0.7	5.4		14.4		23.4		27.2		23.4		14.4		5.4		0.7
70	2.5	2.7	5.8	9.6	13.7	17.2	19.9	21.3	21.3	19.9	17.2	13.7	9.6	5.8	2.7	2.5
60		4.3	9.0	14.5	20.0	24.9	28.7	30.7	30.7	28.7	24.9	20.0	14.5	9.0	4.3	
50	4.5	5.8	11.8	18.6	25.7	33.1	40.0	44.3	44.3	40.0	33.1	25.7	18.6	11.8	5.8	4.5
40		7.1	14.1	22.3	32.6	46.7	63.8	78.4	78.4	63.8	46.7	32.6	22.3	14.1	7.1	
30	6.0	8.1	15.8	25.9	42.3	74.6	152.4	260.7	260.7	152.4	74.6	42.3	25.9	15.8	8.1	6.0
20		8.8	17.1	29.4	54.4	143.6	516.5	1282.5	1282.5	516.5	143.6	54.4	29.4	17.1	8.8	
10	6.6	9.2	17.8	31.6	64.9	239.3	1249.7	5487.1	5487.1	1249.7	239.3	64.9	31.6	17.8	9.2	6.6
0		9.2	17.8	31.6	64.9	239.3	1249.7	5487.1	5487.1	1249.7	239.3	64.9	31.6	17.8	9.2	
-10	6.0	8.8	17.1	29.4	54.4	143.6	516.5	1282.5	1282.5	516.5	143.6	54.4	29.4	17.1	8.8	6.0
-20		8.1	15.8	25.9	42.3	74.6	152.4	260.7	260.7	152.4	74.6	42.3	25.9	15.8	8.1	
-30	4.5	7.1	14.1	22.3	32.6	46.7	63.8	78.4	78.4	63.8	46.7	32.6	22.3	14.1	7.1	4.5
-40		5.8	11.8	18.6	25.7	33.1	40.0	44.3	44.3	40.0	33.1	25.7	18.6	11.8	5.8	
-50	2.5	4.3	9.0	14.5	20.0	24.9	28.7	30.7	30.7	28.7	24.9	20.0	14.5	9.0	4.3	2.5
-60		2.7	5.8	9.6	13.7	17.2	19.9	21.3	21.3	19.9	17.2	13.7	9.6	5.8	2.7	
-70	0.7	5.4		14.4		23.4		27.2		23.4		14.4		5.4		0.7
-80		5.4		14.4		23.4		27.2		23.4		14.4		5.4		
-90	0.7	5.4		14.4		23.4		27.2		23.4		14.4		5.4		0.7

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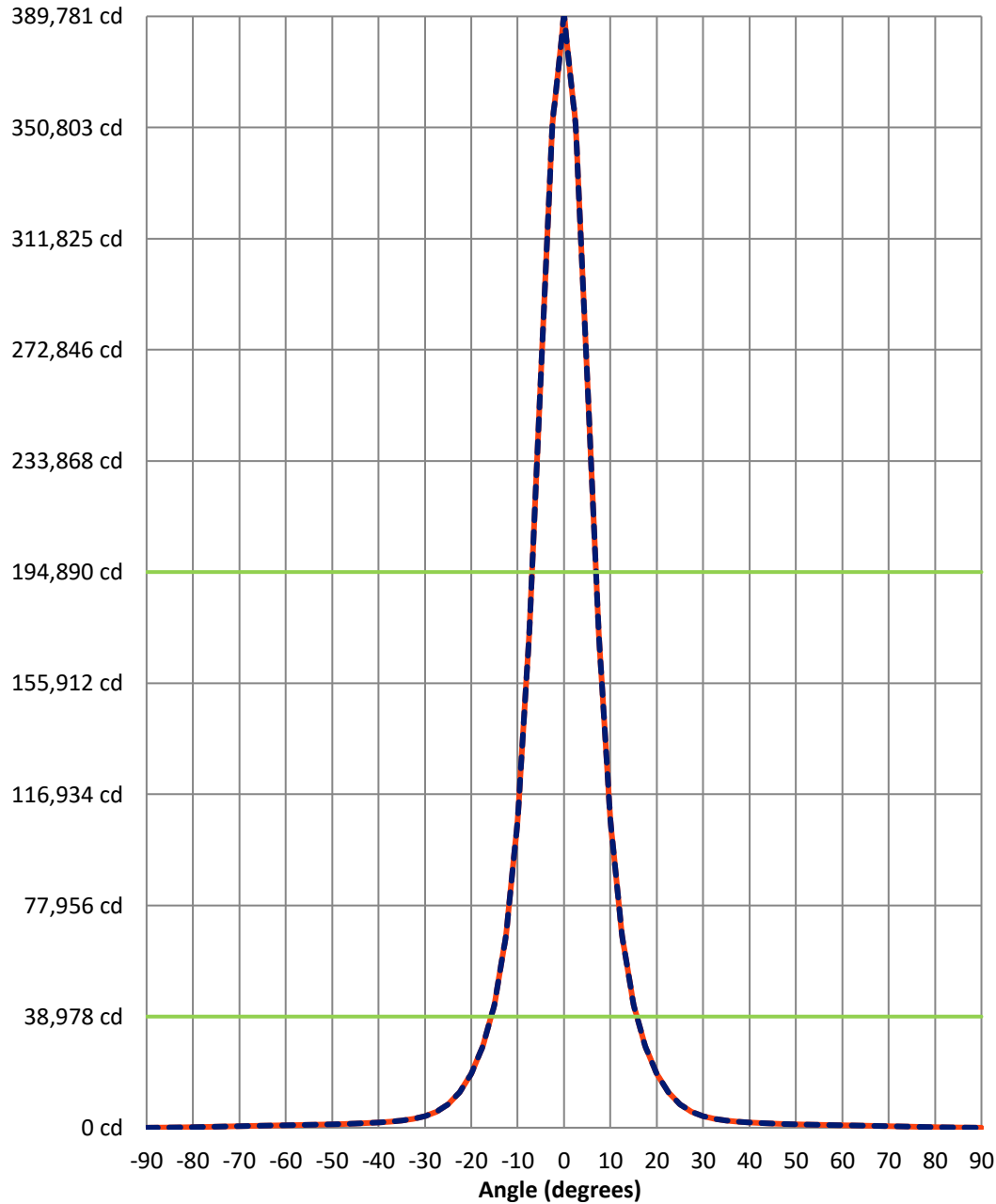
### Luminous Intensity Polar Plot



— 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: 9159.9  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 21328.1  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 20560.6  
 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°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	30.5	30.5
85°	78.4	78.4	78.4	78.4	78.4	78.4	74.1	74.1	74.1	69.7	69.7
82.5°	130.7	130.7	130.7	130.7	126.4	126.4	126.4	122.0	122.0	117.7	117.7
80°	200.5	200.5	200.5	200.5	196.1	191.7	191.7	187.4	183.0	178.7	174.3
77.5°	274.5	274.5	274.5	270.2	270.2	265.8	261.5	257.1	252.8	244.0	239.7
75°	361.7	361.7	361.7	357.3	353.0	348.6	344.3	335.6	331.2	322.5	313.8
72.5°	453.2	453.2	453.2	448.9	444.5	435.8	431.4	422.7	414.0	400.9	392.2
70°	540.4	540.4	540.4	536.0	527.3	522.9	514.2	505.5	496.8	483.7	470.6
67.5°	627.5	627.5	627.5	618.8	614.5	610.1	601.4	588.3	579.6	566.5	549.1
65°	710.3	710.3	706.0	701.6	697.3	688.5	679.8	671.1	658.0	645.0	627.5
62.5°	793.1	793.1	788.8	784.4	780.0	771.3	758.3	749.5	732.1	719.0	701.6
60°	862.8	862.8	858.5	854.1	849.8	841.1	832.3	819.3	806.2	793.1	775.7
57.5°	936.9	936.9	932.6	928.2	919.5	910.8	902.1	889.0	871.6	854.1	841.1
55°	1019.7	1019.7	1015.4	1006.7	997.9	989.2	976.2	958.7	941.3	923.9	902.1
52.5°	1098.2	1098.2	1093.8	1085.1	1076.4	1067.7	1050.2	1037.2	1015.4	993.6	967.4
50°	1194.0	1194.0	1185.3	1176.6	1167.9	1150.5	1133.0	1111.2	1089.5	1063.3	1041.5
47.5°	1303.0	1303.0	1294.3	1285.6	1268.1	1250.7	1224.5	1198.4	1172.3	1141.7	1106.9
45°	1455.5	1455.5	1442.4	1425.0	1403.2	1372.7	1337.9	1303.0	1263.8	1228.9	1189.7
42.5°	1642.9	1642.9	1625.5	1603.7	1573.2	1534.0	1486.0	1438.1	1385.8	1329.1	1276.8
40°	1839.0	1839.0	1817.2	1795.4	1760.6	1712.6	1660.3	1599.3	1534.0	1459.9	1394.5
37.5°	2109.2	2109.2	2078.7	2039.5	1987.2	1921.8	1843.4	1773.6	1699.5	1616.8	1529.6
35°	2510.1	2510.1	2462.2	2396.8	2314.0	2205.1	2087.4	1987.2	1873.9	1773.6	1677.8
32.5°	3102.8	3102.8	3020.0	2924.1	2784.6	2610.3	2440.4	2279.1	2109.2	1965.4	1825.9
30°	4035.3	4035.3	3895.9	3721.6	3486.3	3185.6	2932.8	2671.3	2422.9	2213.8	2022.0
27.5°	5586.7	5521.4	5329.6	5011.5	4575.7	4035.3	3647.5	3207.4	2858.7	2518.8	2270.4
25°	8201.4	8079.4	7717.7	7120.7	6314.5	5421.1	4715.2	3965.6	3434.0	2950.2	2562.4
22.5°	12450.3	12228.0	11565.7	10484.9	9025.0	7595.7	6292.7	5137.9	4187.9	3512.4	2950.2
20°	18917.3	18529.4	17387.7	15540.0	13047.3	10837.9	8515.2	6802.6	5281.7	4187.9	3434.0
17.5°	28635.2	27964.1	25998.7	22830.6	18917.3	15317.7	11779.2	8959.7	6802.6	5137.9	3965.6
15°	43172.9	41996.3	38562.3	33102.0	26831.1	21122.3	16097.8	11779.2	8515.2	6292.7	4715.2
12.5°	67581.1	65201.7	58325.0	47600.5	37603.6	28221.2	21122.3	15317.7	10837.9	7595.7	5421.1
10°	107908.3	102992.7	89052.0	67951.5	51901.6	37603.6	26831.1	18917.3	13047.3	9025.0	6314.5
7.5°	173275.6	162725.3	133898.3	98369.0	67951.5	47600.5	33102.0	22830.6	15540.0	10484.9	7120.7
5°	263434.5	242203.2	188907.1	133898.3	89052.0	58325.0	38562.3	25998.7	17387.7	11565.7	7717.7
2.5°	351828.5	315235.9	242203.2	162725.3	102992.7	65201.7	41996.3	27964.1	18529.4	12228.0	8079.4
0°	389780.7	351828.5	263434.5	173275.6	107908.3	67581.1	43172.9	28635.2	18917.3	12450.3	8201.4



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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°	30.5	30.5	30.5	30.5	26.1	26.1	26.1	26.1	21.8	21.8	21.8
85°	69.7	65.4	65.4	61.0	61.0	56.7	56.7	52.3	52.3	47.9	43.6
82.5°	113.3	108.9	104.6	100.2	100.2	95.9	91.5	82.8	78.4	74.1	69.7
80°	170.0	161.2	156.9	148.2	143.8	135.1	126.4	122.0	113.3	108.9	100.2
77.5°	231.0	222.2	217.9	204.8	196.1	187.4	178.7	165.6	156.9	143.8	130.7
75°	300.7	292.0	278.9	265.8	257.1	244.0	231.0	217.9	200.5	187.4	174.3
72.5°	379.1	366.1	353.0	335.6	318.1	305.0	283.3	265.8	252.8	235.3	217.9
70°	457.6	444.5	427.1	409.6	387.8	370.4	348.6	326.8	305.0	283.3	261.5
67.5°	536.0	518.6	501.1	479.4	457.6	435.8	414.0	387.8	361.7	335.6	309.4
65°	610.1	592.7	570.9	549.1	527.3	501.1	475.0	448.9	418.4	387.8	361.7
62.5°	684.2	662.4	640.6	618.8	592.7	566.5	540.4	505.5	475.0	444.5	409.6
60°	753.9	732.1	710.3	684.2	658.0	627.5	597.0	566.5	531.7	496.8	461.9
57.5°	819.3	797.5	775.7	745.2	719.0	688.5	653.7	623.2	583.9	549.1	509.9
55°	880.3	858.5	832.3	806.2	780.0	745.2	710.3	675.5	636.2	597.0	553.4
52.5°	941.3	915.1	889.0	862.8	832.3	801.8	767.0	727.8	688.5	645.0	601.4
50°	1011.0	980.5	945.6	915.1	880.3	849.8	814.9	775.7	736.5	688.5	645.0
47.5°	1076.4	1045.9	1011.0	971.8	936.9	897.7	858.5	823.6	780.0	736.5	688.5
45°	1150.5	1106.9	1072.0	1032.8	989.2	945.6	906.4	862.8	823.6	775.7	727.8
42.5°	1228.9	1181.0	1133.0	1085.1	1045.9	997.9	950.0	906.4	858.5	814.9	767.0
40°	1320.4	1263.8	1202.8	1150.5	1098.2	1050.2	997.9	945.6	897.7	849.8	801.8
37.5°	1438.1	1359.6	1281.2	1215.8	1154.8	1098.2	1045.9	989.2	936.9	880.3	832.3
35°	1577.5	1468.6	1377.1	1285.6	1215.8	1150.5	1085.1	1032.8	971.8	915.1	862.8
32.5°	1717.0	1599.3	1481.7	1377.1	1281.2	1202.8	1133.0	1072.0	1011.0	945.6	889.0
30°	1860.8	1730.1	1599.3	1468.6	1359.6	1263.8	1181.0	1106.9	1045.9	980.5	915.1
27.5°	2043.8	1860.8	1717.0	1577.5	1438.1	1320.4	1228.9	1150.5	1076.4	1011.0	941.3
25°	2270.4	2022.0	1825.9	1677.8	1529.6	1394.5	1276.8	1189.7	1106.9	1041.5	967.4
22.5°	2518.8	2213.8	1965.4	1773.6	1616.8	1459.9	1329.1	1228.9	1141.7	1063.3	993.6
20°	2858.7	2422.9	2109.2	1873.9	1699.5	1534.0	1385.8	1263.8	1172.3	1089.5	1015.4
17.5°	3207.4	2671.3	2279.1	1987.2	1773.6	1599.3	1438.1	1303.0	1198.4	1111.2	1037.2
15°	3647.5	2932.8	2440.4	2087.4	1843.4	1660.3	1486.0	1337.9	1224.5	1133.0	1050.2
12.5°	4035.3	3185.6	2610.3	2205.1	1921.8	1712.6	1534.0	1372.7	1250.7	1150.5	1067.7
10°	4575.7	3486.3	2784.6	2314.0	1987.2	1760.6	1573.2	1403.2	1268.1	1167.9	1076.4
7.5°	5011.5	3721.6	2924.1	2396.8	2039.5	1795.4	1603.7	1425.0	1285.6	1176.6	1085.1
5°	5329.6	3895.9	3020.0	2462.2	2078.7	1817.2	1625.5	1442.4	1294.3	1185.3	1093.8
2.5°	5521.4	4035.3	3102.8	2510.1	2109.2	1839.0	1642.9	1455.5	1303.0	1194.0	1098.2
0°	5586.7	4035.3	3102.8	2510.1	2109.2	1839.0	1642.9	1455.5	1303.0	1194.0	1098.2





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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°	21.8	17.4	17.4	17.4	13.1	13.1	13.1	8.7	8.7	8.7	4.4
85°	39.2	39.2	34.9	30.5	30.5	26.1	21.8	21.8	17.4	13.1	13.1
82.5°	65.4	61.0	56.7	52.3	47.9	39.2	34.9	30.5	26.1	21.8	17.4
80°	91.5	87.2	78.4	69.7	65.4	56.7	52.3	43.6	34.9	30.5	26.1
77.5°	122.0	113.3	104.6	95.9	82.8	74.1	65.4	56.7	47.9	39.2	30.5
75°	161.2	143.8	130.7	117.7	104.6	91.5	78.4	69.7	56.7	47.9	34.9
72.5°	200.5	183.0	161.2	143.8	126.4	113.3	95.9	82.8	69.7	56.7	43.6
70°	239.7	217.9	196.1	174.3	152.5	130.7	113.3	95.9	78.4	65.4	52.3
67.5°	278.9	257.1	231.0	204.8	183.0	156.9	130.7	113.3	91.5	74.1	56.7
65°	326.8	296.3	265.8	239.7	209.2	183.0	152.5	126.4	104.6	82.8	65.4
62.5°	374.8	339.9	305.0	270.2	239.7	204.8	174.3	143.8	117.7	95.9	69.7
60°	422.7	383.5	344.3	305.0	265.8	231.0	196.1	161.2	130.7	104.6	78.4
57.5°	470.6	427.1	383.5	339.9	296.3	257.1	217.9	183.0	143.8	113.3	87.2
55°	514.2	470.6	422.7	374.8	326.8	278.9	239.7	200.5	161.2	122.0	91.5
52.5°	553.4	509.9	461.9	409.6	361.7	309.4	261.5	217.9	174.3	130.7	100.2
50°	597.0	549.1	496.8	444.5	387.8	335.6	283.3	235.3	187.4	143.8	108.9
47.5°	636.2	583.9	531.7	475.0	418.4	361.7	305.0	252.8	200.5	156.9	113.3
45°	675.5	623.2	566.5	505.5	448.9	387.8	326.8	265.8	217.9	165.6	122.0
42.5°	710.3	653.7	597.0	540.4	475.0	414.0	348.6	283.3	231.0	178.7	126.4
40°	745.2	688.5	627.5	566.5	501.1	435.8	370.4	305.0	244.0	187.4	135.1
37.5°	780.0	719.0	658.0	592.7	527.3	457.6	387.8	318.1	257.1	196.1	143.8
35°	806.2	745.2	684.2	618.8	549.1	479.4	409.6	335.6	265.8	204.8	148.2
32.5°	832.3	775.7	710.3	640.6	570.9	501.1	427.1	353.0	278.9	217.9	156.9
30°	858.5	797.5	732.1	662.4	592.7	518.6	444.5	366.1	292.0	222.2	161.2
27.5°	880.3	819.3	753.9	684.2	610.1	536.0	457.6	379.1	300.7	231.0	170.0
25°	902.1	841.1	775.7	701.6	627.5	549.1	470.6	392.2	313.8	239.7	174.3
22.5°	923.9	854.1	793.1	719.0	645.0	566.5	483.7	400.9	322.5	244.0	178.7
20°	941.3	871.6	806.2	732.1	658.0	579.6	496.8	414.0	331.2	252.8	183.0
17.5°	958.7	889.0	819.3	749.5	671.1	588.3	505.5	422.7	335.6	257.1	187.4
15°	976.2	902.1	832.3	758.3	679.8	601.4	514.2	431.4	344.3	261.5	191.7
12.5°	989.2	910.8	841.1	771.3	688.5	610.1	522.9	435.8	348.6	265.8	191.7
10°	997.9	919.5	849.8	780.0	697.3	614.5	527.3	444.5	353.0	270.2	196.1
7.5°	1006.7	928.2	854.1	784.4	701.6	618.8	536.0	448.9	357.3	270.2	200.5
5°	1015.4	932.6	858.5	788.8	706.0	627.5	540.4	453.2	361.7	274.5	200.5
2.5°	1019.7	936.9	862.8	793.1	710.3	627.5	540.4	453.2	361.7	274.5	200.5
0°	1019.7	936.9	862.8	793.1	710.3	627.5	540.4	453.2	361.7	274.5	200.5



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	0.0	0.0
85°	8.7	4.4	4.4	0.0
82.5°	13.1	8.7	4.4	0.0
80°	17.4	13.1	4.4	0.0
77.5°	21.8	13.1	8.7	0.0
75°	26.1	17.4	8.7	0.0
72.5°	30.5	21.8	8.7	0.0
70°	34.9	21.8	13.1	0.0
67.5°	39.2	26.1	13.1	0.0
65°	47.9	30.5	13.1	0.0
62.5°	52.3	30.5	17.4	0.0
60°	56.7	34.9	17.4	0.0
57.5°	61.0	39.2	17.4	0.0
55°	65.4	39.2	21.8	0.0
52.5°	69.7	43.6	21.8	0.0
50°	74.1	47.9	21.8	0.0
47.5°	78.4	52.3	21.8	0.0
45°	82.8	52.3	26.1	0.0
42.5°	91.5	56.7	26.1	0.0
40°	95.9	56.7	26.1	0.0
37.5°	100.2	61.0	26.1	0.0
35°	100.2	61.0	30.5	0.0
32.5°	104.6	65.4	30.5	0.0
30°	108.9	65.4	30.5	0.0
27.5°	113.3	69.7	30.5	0.0
25°	117.7	69.7	30.5	0.0
22.5°	117.7	69.7	30.5	0.0
20°	122.0	74.1	34.9	0.0
17.5°	122.0	74.1	34.9	0.0
15°	126.4	74.1	34.9	0.0
12.5°	126.4	78.4	34.9	0.0
10°	126.4	78.4	34.9	0.0
7.5°	130.7	78.4	34.9	0.0
5°	130.7	78.4	34.9	0.0
2.5°	130.7	78.4	34.9	0.0
0°	130.7	78.4	34.9	0.0

(END OF REPORT)