

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: P723371

Luminaire Tested: **IFLD-L-SA8D-750-U-22**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P723371  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-750-U-22  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

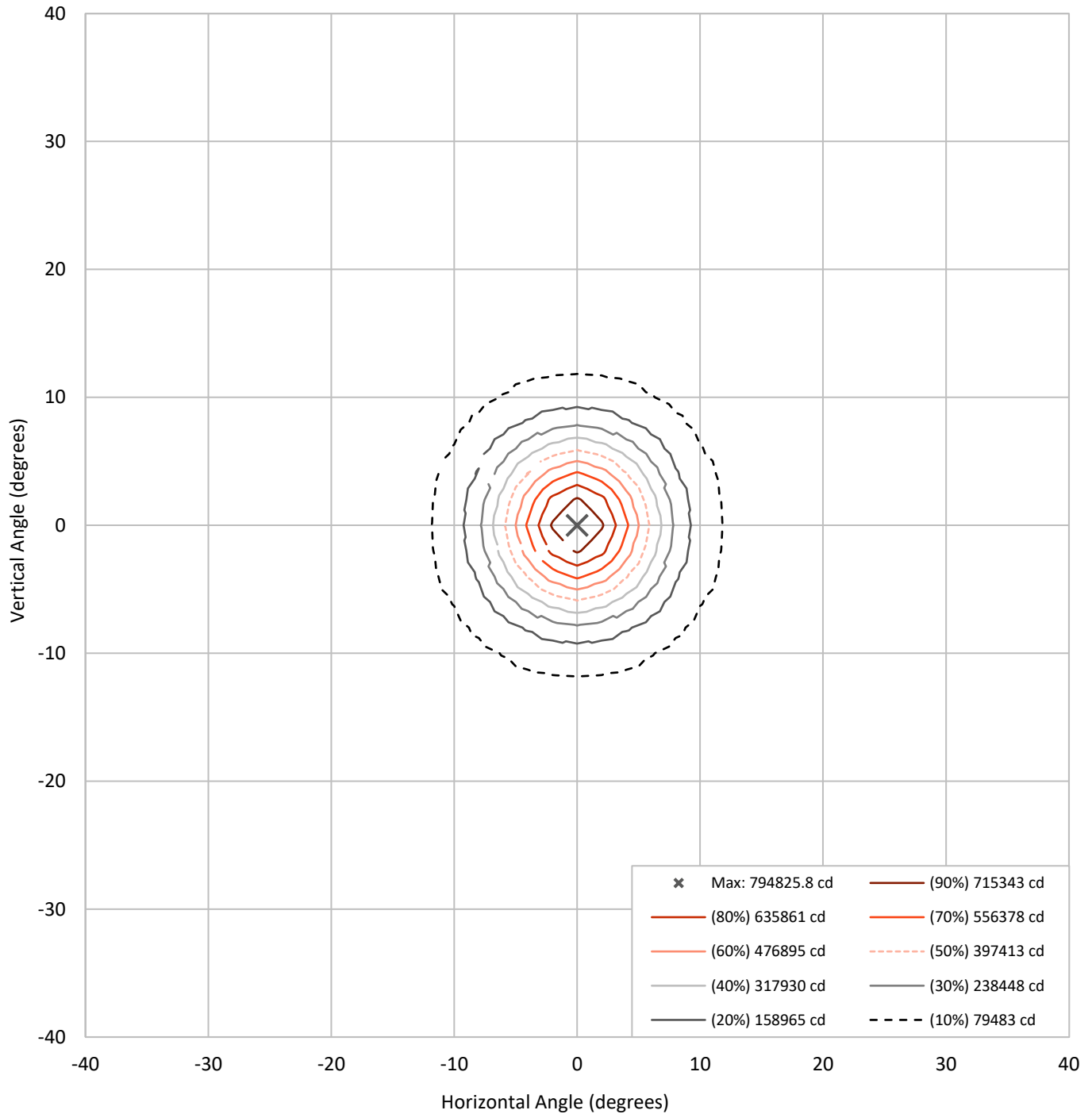
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	53223.6 lumens	Max Intensity:	794825.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	12892.6 lumens	Field Lumens:	27706.5 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





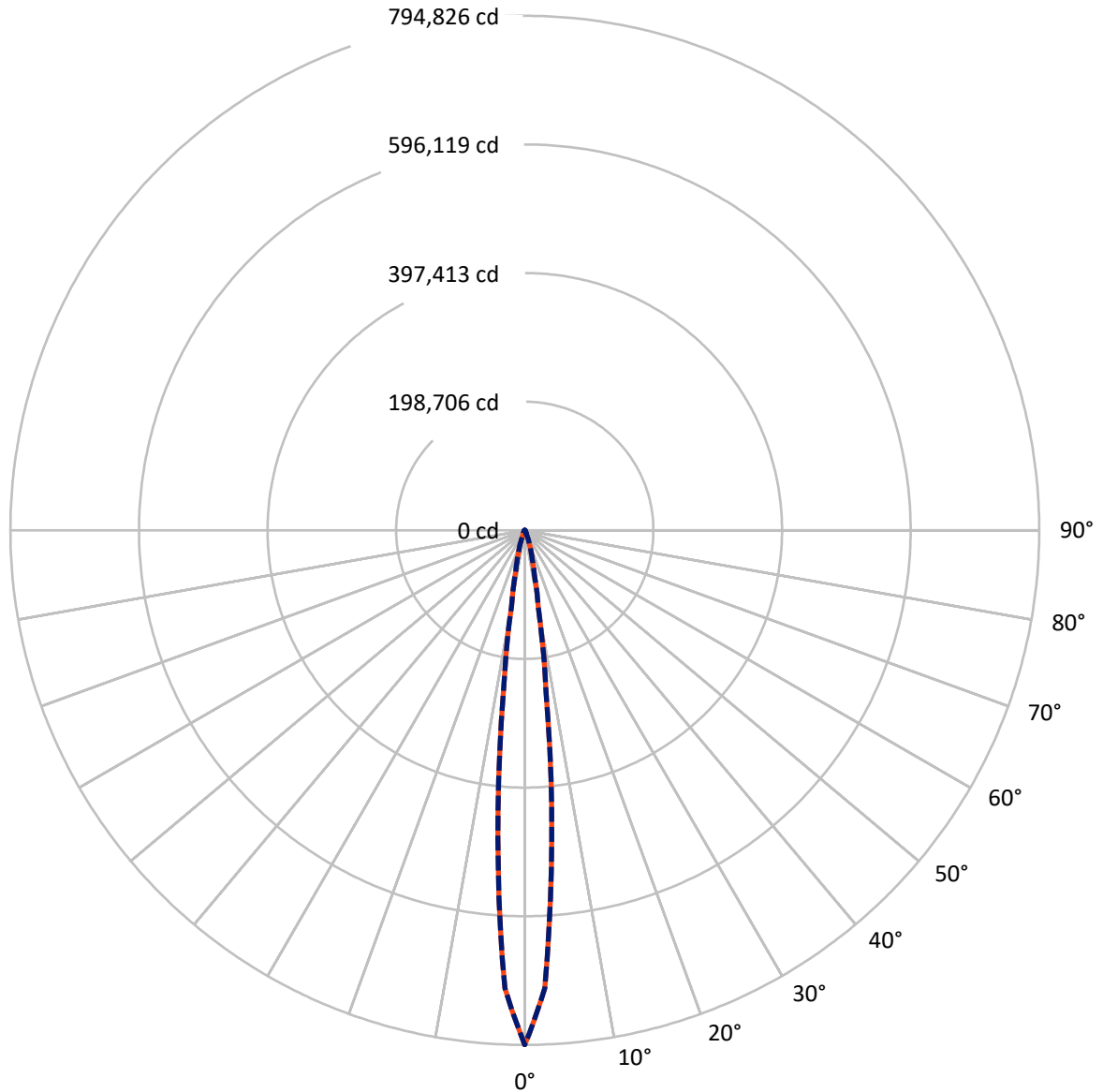
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### Lumen Table

90	1.7	11.3	25.6	38.4	43.7	38.4	25.6	11.3	1.7										
80																			
70	5.1	4.7	8.8	13.6	18.3	22.2	24.8	26.2	26.2	24.8	22.2	18.3	13.6	8.8	4.7				
60		6.5	12.3	18.2	23.0	26.6	29.0	30.3	30.3	29.0	26.6	23.0	18.2	12.3	6.5	5.1			
50	7.6	8.2	14.8	20.4	25.0	29.3	33.5	36.4	36.4	33.5	29.3	25.0	20.4	14.8	8.2				
40		9.6	16.2	21.6	27.6	37.3	47.6	54.7	54.7	47.6	37.3	27.6	21.6	16.2	9.6	7.6			
30	9.4	10.4	16.9	22.9	33.7	51.3	97.3	186.1	186.1	97.3	51.3	33.7	22.9	16.9	10.4				
20		11.0	17.3	24.6	40.5	91.7	450.2	1257.9	1257.9	450.2	91.7	40.5	24.6	17.3	11.0	9.4			
10	10.0	11.2	17.5	25.9	45.1	171.2	1226.1	8724.8	8724.8	1226.1	171.2	45.1	25.9	17.5	11.2				
0		11.2	17.5	25.9	45.1	171.2	1226.1	8724.8	8724.8	1226.1	171.2	45.1	25.9	17.5	11.2	10.0			
-10	9.4	11.0	17.3	24.6	40.5	91.7	450.2	1257.9	1257.9	450.2	91.7	40.5	24.6	17.3	11.0				
-20		10.4	16.9	22.9	33.7	51.3	97.3	186.1	186.1	97.3	51.3	33.7	22.9	16.9	10.4	9.4			
-30	7.6	9.6	16.2	21.6	27.6	37.3	47.6	54.7	54.7	47.6	37.3	27.6	21.6	16.2	9.6				
-40		8.2	14.8	20.4	25.0	29.3	33.5	36.4	36.4	33.5	29.3	25.0	20.4	14.8	8.2	7.6			
-50	5.1	6.5	12.3	18.2	23.0	26.6	29.0	30.3	30.3	29.0	26.6	23.0	18.2	12.3	6.5				
-60		4.7	8.8	13.6	18.3	22.2	24.8	26.2	26.2	24.8	22.2	18.3	13.6	8.8	4.7	5.1			
-70	1.7	11.3	25.6	38.4	43.7	38.4	25.6	11.3	1.7										
-80																			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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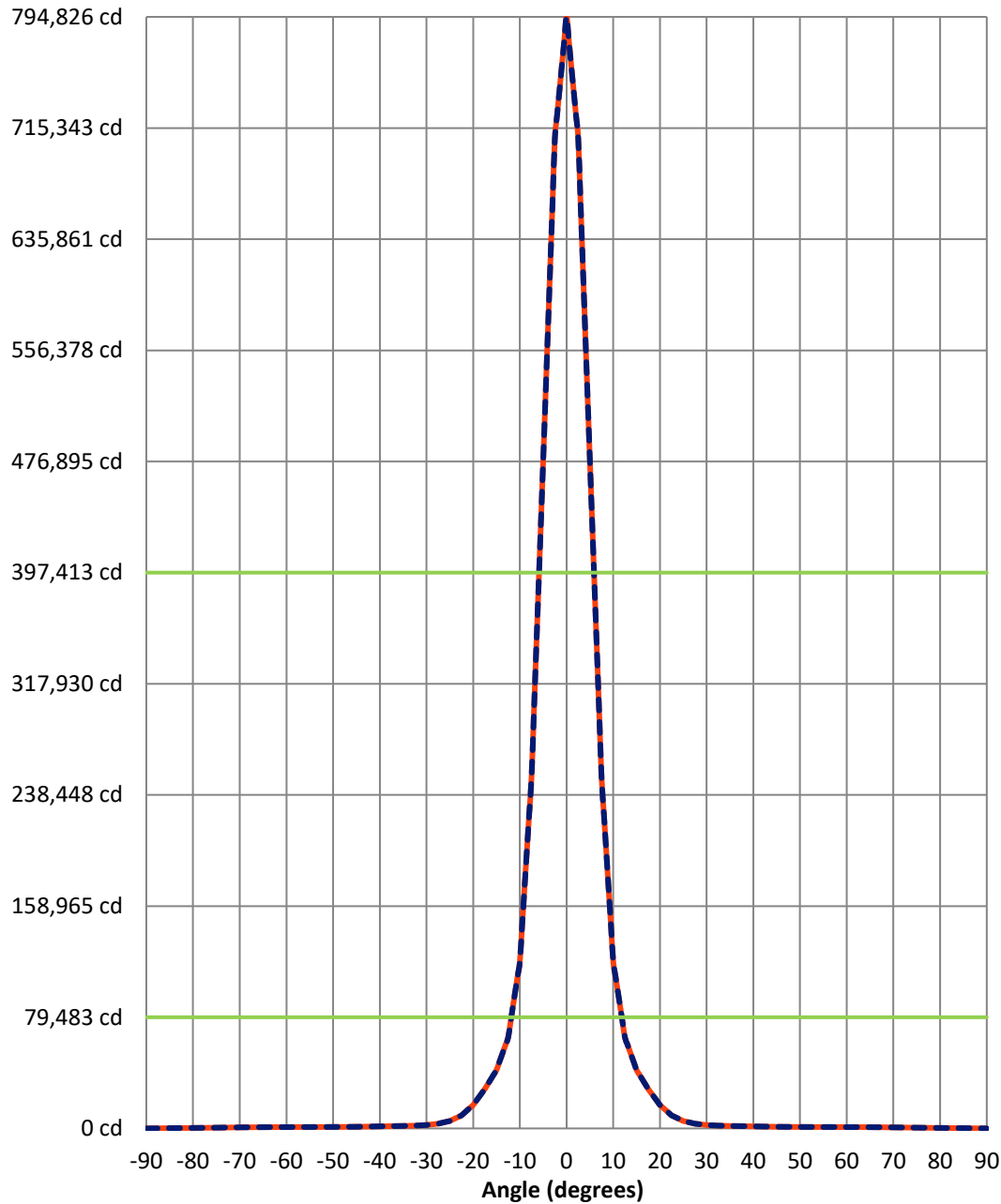
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 11.8°  
 V Angle: 11.8°  
 Lumens: 12892.6  
 Efficiency: 24.2%

**Field:**  
 H Angle: 23.7°  
 V Angle: 23.7°  
 Lumens: 27706.5  
 Efficiency: 52.1%

**Spill:**  
 Lumens: 25517.1  
 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°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	70.7	70.7	70.7
85°	204.2	204.2	204.2	204.2	204.2	196.4	196.4	196.4	188.5	188.5	180.7
82.5°	274.9	274.9	274.9	274.9	274.9	267.1	267.1	267.1	259.2	259.2	251.4
80°	353.5	353.5	353.5	353.5	345.6	345.6	345.6	337.8	337.8	329.9	322.1
77.5°	439.9	439.9	439.9	439.9	432.0	432.0	424.2	416.3	416.3	408.5	400.6
75°	534.2	534.2	534.2	526.3	526.3	518.4	510.6	510.6	502.7	487.0	479.2
72.5°	636.3	636.3	636.3	628.4	628.4	620.6	612.7	604.8	589.1	581.3	565.6
70°	738.4	738.4	738.4	730.5	722.7	714.8	707.0	699.1	683.4	675.5	659.8
67.5°	816.9	816.9	816.9	809.1	809.1	801.2	793.4	785.5	769.8	762.0	746.2
65°	879.8	879.8	879.8	871.9	871.9	864.1	856.2	848.4	840.5	832.6	816.9
62.5°	926.9	926.9	926.9	919.1	919.1	911.2	911.2	903.3	895.5	887.6	871.9
60°	950.5	950.5	950.5	950.5	942.6	942.6	942.6	934.8	934.8	926.9	919.1
57.5°	981.9	981.9	981.9	981.9	974.0	974.0	966.2	958.3	958.3	950.5	942.6
55°	997.6	997.6	997.6	997.6	997.6	989.8	989.8	989.8	981.9	974.0	966.2
52.5°	1021.2	1021.2	1021.2	1021.2	1013.3	1013.3	1005.5	1005.5	997.6	989.8	989.8
50°	1052.6	1052.6	1052.6	1044.7	1044.7	1036.9	1029.0	1021.2	1021.2	1013.3	1005.5
47.5°	1099.7	1099.7	1099.7	1091.9	1084.0	1076.2	1068.3	1052.6	1044.7	1036.9	1021.2
45°	1170.4	1170.4	1162.6	1154.7	1146.9	1131.1	1115.4	1099.7	1084.0	1068.3	1052.6
42.5°	1311.8	1311.8	1296.1	1280.4	1256.8	1225.4	1194.0	1162.6	1139.0	1115.4	1091.9
40°	1476.8	1476.8	1461.1	1437.5	1406.1	1374.7	1327.5	1280.4	1233.3	1170.4	1139.0
37.5°	1641.7	1641.7	1626.0	1602.5	1571.0	1523.9	1476.8	1421.8	1358.9	1288.2	1225.4
35°	1767.4	1767.4	1751.7	1736.0	1704.6	1673.2	1626.0	1571.0	1500.3	1421.8	1343.2
32.5°	1987.4	1987.4	1955.9	1916.7	1869.5	1806.7	1743.8	1696.7	1641.7	1555.3	1468.9
30°	2435.1	2435.1	2364.4	2285.9	2168.0	2026.6	1924.5	1830.3	1743.8	1673.2	1586.7
27.5°	3377.7	3338.4	3220.6	3024.2	2765.0	2435.1	2246.6	2034.5	1893.1	1767.4	1688.9
25°	5325.8	5231.5	4964.5	4524.6	3919.7	3275.6	2851.4	2403.7	2144.5	1932.4	1791.0
22.5°	9316.2	9104.1	8483.6	7470.3	6095.6	4870.2	3904.0	3102.8	2529.4	2183.7	1932.4
20°	16747.2	16307.3	14987.7	12866.8	10007.5	7800.2	5624.3	4281.1	3189.2	2529.4	2144.5
17.5°	28168.7	27383.1	25065.9	21350.4	16747.2	12607.6	8687.8	6040.6	4281.1	3102.8	2403.7
15°	41742.4	40642.7	37437.8	32339.8	26047.8	19339.4	13503.0	8687.8	5624.3	3904.0	2851.4
12.5°	65056.6	62786.4	56211.6	45968.5	36542.3	27681.6	19339.4	12607.6	7800.2	4870.2	3275.6
10°	119367.2	112745.3	93971.5	65551.4	50076.7	36542.3	26047.8	16747.2	10007.5	6095.6	3919.7
7.5°	251169.2	221735.9	160064.9	106516.2	65551.4	45968.5	32339.8	21350.4	12866.8	7470.3	4524.6
5°	477618.2	417494.7	287648.6	160064.9	93971.5	56211.6	37437.8	25065.9	14987.7	8483.6	4964.5
2.5°	708041.9	624926.3	417494.7	221735.9	112745.3	62786.4	40642.7	27383.1	16307.3	9104.1	5231.5
0°	794825.8	708041.9	477618.2	251169.2	119367.2	65056.6	41742.4	28168.7	16747.2	9316.2	5325.8



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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°	70.7	70.7	62.8	62.8	62.8	62.8	55.0	55.0	55.0	47.1	47.1
85°	172.8	172.8	165.0	157.1	149.2	149.2	141.4	133.5	125.7	117.8	102.1
82.5°	251.4	243.5	243.5	235.7	227.8	227.8	219.9	212.1	204.2	196.4	180.7
80°	314.2	314.2	306.4	298.5	290.6	282.8	267.1	259.2	251.4	243.5	235.7
77.5°	392.8	384.9	369.2	361.3	353.5	337.8	329.9	314.2	306.4	290.6	274.9
75°	471.3	455.6	447.7	432.0	416.3	400.6	384.9	369.2	353.5	337.8	322.1
72.5°	549.9	534.2	526.3	502.7	487.0	471.3	447.7	432.0	416.3	392.8	369.2
70°	644.1	628.4	604.8	589.1	565.6	542.0	518.4	494.9	471.3	447.7	424.2
67.5°	730.5	714.8	691.3	667.7	644.1	620.6	589.1	565.6	534.2	502.7	479.2
65°	801.2	785.5	769.8	746.2	722.7	691.3	659.8	628.4	597.0	565.6	534.2
62.5°	856.2	840.5	824.8	809.1	785.5	762.0	738.4	699.1	667.7	628.4	589.1
60°	903.3	895.5	879.8	856.2	840.5	816.9	793.4	762.0	730.5	683.4	644.1
57.5°	934.8	926.9	919.1	903.3	887.6	864.1	840.5	809.1	777.7	746.2	699.1
55°	958.3	950.5	942.6	934.8	919.1	903.3	879.8	856.2	824.8	793.4	754.1
52.5°	981.9	974.0	958.3	950.5	942.6	926.9	911.2	887.6	864.1	832.6	793.4
50°	997.6	989.8	981.9	974.0	958.3	942.6	934.8	919.1	895.5	864.1	832.6
47.5°	1013.3	1005.5	997.6	989.8	981.9	966.2	950.5	934.8	919.1	895.5	864.1
45°	1036.9	1021.2	1013.3	997.6	989.8	981.9	966.2	950.5	934.8	919.1	887.6
42.5°	1068.3	1044.7	1036.9	1021.2	1005.5	997.6	981.9	966.2	950.5	934.8	911.2
40°	1107.6	1084.0	1060.4	1036.9	1021.2	1005.5	997.6	981.9	966.2	942.6	926.9
37.5°	1162.6	1123.3	1091.9	1060.4	1036.9	1021.2	1005.5	989.8	981.9	958.3	942.6
35°	1264.7	1178.3	1131.1	1091.9	1060.4	1036.9	1021.2	997.6	989.8	974.0	950.5
32.5°	1374.7	1280.4	1186.1	1131.1	1091.9	1060.4	1036.9	1013.3	997.6	981.9	958.3
30°	1492.5	1382.5	1280.4	1178.3	1123.3	1084.0	1044.7	1021.2	1005.5	989.8	974.0
27.5°	1602.5	1492.5	1374.7	1264.7	1162.6	1107.6	1068.3	1036.9	1013.3	997.6	981.9
25°	1688.9	1586.7	1468.9	1343.2	1225.4	1139.0	1091.9	1052.6	1021.2	1005.5	989.8
22.5°	1767.4	1673.2	1555.3	1421.8	1288.2	1170.4	1115.4	1068.3	1036.9	1013.3	989.8
20°	1893.1	1743.8	1641.7	1500.3	1358.9	1233.3	1139.0	1084.0	1044.7	1021.2	997.6
17.5°	2034.5	1830.3	1696.7	1571.0	1421.8	1280.4	1162.6	1099.7	1052.6	1021.2	1005.5
15°	2246.6	1924.5	1743.8	1626.0	1476.8	1327.5	1194.0	1115.4	1068.3	1029.0	1005.5
12.5°	2435.1	2026.6	1806.7	1673.2	1523.9	1374.7	1225.4	1131.1	1076.2	1036.9	1013.3
10°	2765.0	2168.0	1869.5	1704.6	1571.0	1406.1	1256.8	1146.9	1084.0	1044.7	1013.3
7.5°	3024.2	2285.9	1916.7	1736.0	1602.5	1437.5	1280.4	1154.7	1091.9	1044.7	1021.2
5°	3220.6	2364.4	1955.9	1751.7	1626.0	1461.1	1296.1	1162.6	1099.7	1052.6	1021.2
2.5°	3338.4	2435.1	1987.4	1767.4	1641.7	1476.8	1311.8	1170.4	1099.7	1052.6	1021.2
0°	3377.7	2435.1	1987.4	1767.4	1641.7	1476.8	1311.8	1170.4	1099.7	1052.6	1021.2





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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°	47.1	39.3	39.3	39.3	31.4	31.4	23.6	23.6	23.6	15.7	15.7
85°	94.3	86.4	78.6	70.7	62.8	62.8	55.0	47.1	39.3	31.4	23.6
82.5°	165.0	157.1	141.4	125.7	110.0	94.3	78.6	70.7	62.8	47.1	39.3
80°	227.8	212.1	204.2	180.7	165.0	141.4	125.7	102.1	78.6	70.7	55.0
77.5°	267.1	251.4	235.7	227.8	212.1	188.5	165.0	141.4	117.8	86.4	70.7
75°	306.4	290.6	274.9	259.2	243.5	219.9	204.2	180.7	149.2	117.8	78.6
72.5°	353.5	329.9	314.2	290.6	267.1	251.4	227.8	212.1	180.7	141.4	102.1
70°	400.6	377.0	345.6	322.1	298.5	274.9	251.4	227.8	204.2	165.0	125.7
67.5°	447.7	416.3	392.8	361.3	329.9	306.4	274.9	251.4	219.9	188.5	141.4
65°	494.9	463.5	432.0	400.6	361.3	329.9	298.5	267.1	243.5	212.1	165.0
62.5°	549.9	510.6	471.3	432.0	400.6	361.3	322.1	290.6	259.2	227.8	180.7
60°	604.8	557.7	510.6	471.3	432.0	392.8	345.6	314.2	274.9	235.7	204.2
57.5°	652.0	604.8	557.7	510.6	463.5	416.3	377.0	329.9	290.6	251.4	212.1
55°	707.0	652.0	604.8	549.9	494.9	447.7	400.6	353.5	306.4	267.1	227.8
52.5°	754.1	699.1	644.1	589.1	534.2	479.2	424.2	369.2	322.1	274.9	235.7
50°	793.4	746.2	683.4	628.4	565.6	502.7	447.7	392.8	337.8	290.6	243.5
47.5°	824.8	777.7	730.5	667.7	597.0	534.2	471.3	416.3	353.5	306.4	251.4
45°	856.2	809.1	762.0	699.1	628.4	565.6	494.9	432.0	369.2	314.2	259.2
42.5°	879.8	840.5	793.4	738.4	659.8	589.1	518.4	447.7	384.9	329.9	267.1
40°	903.3	864.1	816.9	762.0	691.3	620.6	542.0	471.3	400.6	337.8	282.8
37.5°	919.1	887.6	840.5	785.5	722.7	644.1	565.6	487.0	416.3	353.5	290.6
35°	934.8	903.3	856.2	809.1	746.2	667.7	589.1	502.7	432.0	361.3	298.5
32.5°	942.6	919.1	879.8	824.8	769.8	691.3	604.8	526.3	447.7	369.2	306.4
30°	950.5	926.9	895.5	840.5	785.5	714.8	628.4	534.2	455.6	384.9	314.2
27.5°	958.3	934.8	903.3	856.2	801.2	730.5	644.1	549.9	471.3	392.8	314.2
25°	966.2	942.6	919.1	871.9	816.9	746.2	659.8	565.6	479.2	400.6	322.1
22.5°	974.0	950.5	926.9	887.6	832.6	762.0	675.5	581.3	487.0	408.5	329.9
20°	981.9	958.3	934.8	895.5	840.5	769.8	683.4	589.1	502.7	416.3	337.8
17.5°	989.8	958.3	934.8	903.3	848.4	785.5	699.1	604.8	510.6	416.3	337.8
15°	989.8	966.2	942.6	911.2	856.2	793.4	707.0	612.7	510.6	424.2	345.6
12.5°	989.8	974.0	942.6	911.2	864.1	801.2	714.8	620.6	518.4	432.0	345.6
10°	997.6	974.0	942.6	919.1	871.9	809.1	722.7	628.4	526.3	432.0	345.6
7.5°	997.6	981.9	950.5	919.1	871.9	809.1	730.5	628.4	526.3	439.9	353.5
5°	997.6	981.9	950.5	926.9	879.8	816.9	738.4	636.3	534.2	439.9	353.5
2.5°	997.6	981.9	950.5	926.9	879.8	816.9	738.4	636.3	534.2	439.9	353.5
0°	997.6	981.9	950.5	926.9	879.8	816.9	738.4	636.3	534.2	439.9	353.5



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.9	7.9	0.0	0.0
85°	23.6	15.7	7.9	0.0
82.5°	31.4	23.6	7.9	0.0
80°	39.3	23.6	15.7	0.0
77.5°	47.1	31.4	15.7	0.0
75°	62.8	39.3	23.6	0.0
72.5°	70.7	47.1	23.6	0.0
70°	78.6	55.0	23.6	0.0
67.5°	94.3	62.8	31.4	0.0
65°	110.0	62.8	31.4	0.0
62.5°	125.7	70.7	39.3	0.0
60°	141.4	78.6	39.3	0.0
57.5°	157.1	86.4	39.3	0.0
55°	165.0	94.3	47.1	0.0
52.5°	180.7	102.1	47.1	0.0
50°	196.4	117.8	47.1	0.0
47.5°	204.2	125.7	55.0	0.0
45°	212.1	133.5	55.0	0.0
42.5°	219.9	141.4	55.0	0.0
40°	227.8	149.2	62.8	0.0
37.5°	227.8	149.2	62.8	0.0
35°	235.7	157.1	62.8	0.0
32.5°	243.5	165.0	62.8	0.0
30°	243.5	172.8	70.7	0.0
27.5°	251.4	172.8	70.7	0.0
25°	251.4	180.7	70.7	0.0
22.5°	259.2	188.5	70.7	0.0
20°	259.2	188.5	70.7	0.0
17.5°	267.1	196.4	78.6	0.0
15°	267.1	196.4	78.6	0.0
12.5°	267.1	196.4	78.6	0.0
10°	274.9	204.2	78.6	0.0
7.5°	274.9	204.2	78.6	0.0
5°	274.9	204.2	78.6	0.0
2.5°	274.9	204.2	78.6	0.0
0°	274.9	204.2	78.6	0.0

(END OF REPORT)