

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: P623134

Luminaire Tested: **IFLD-L-SA8B-750-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-750-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

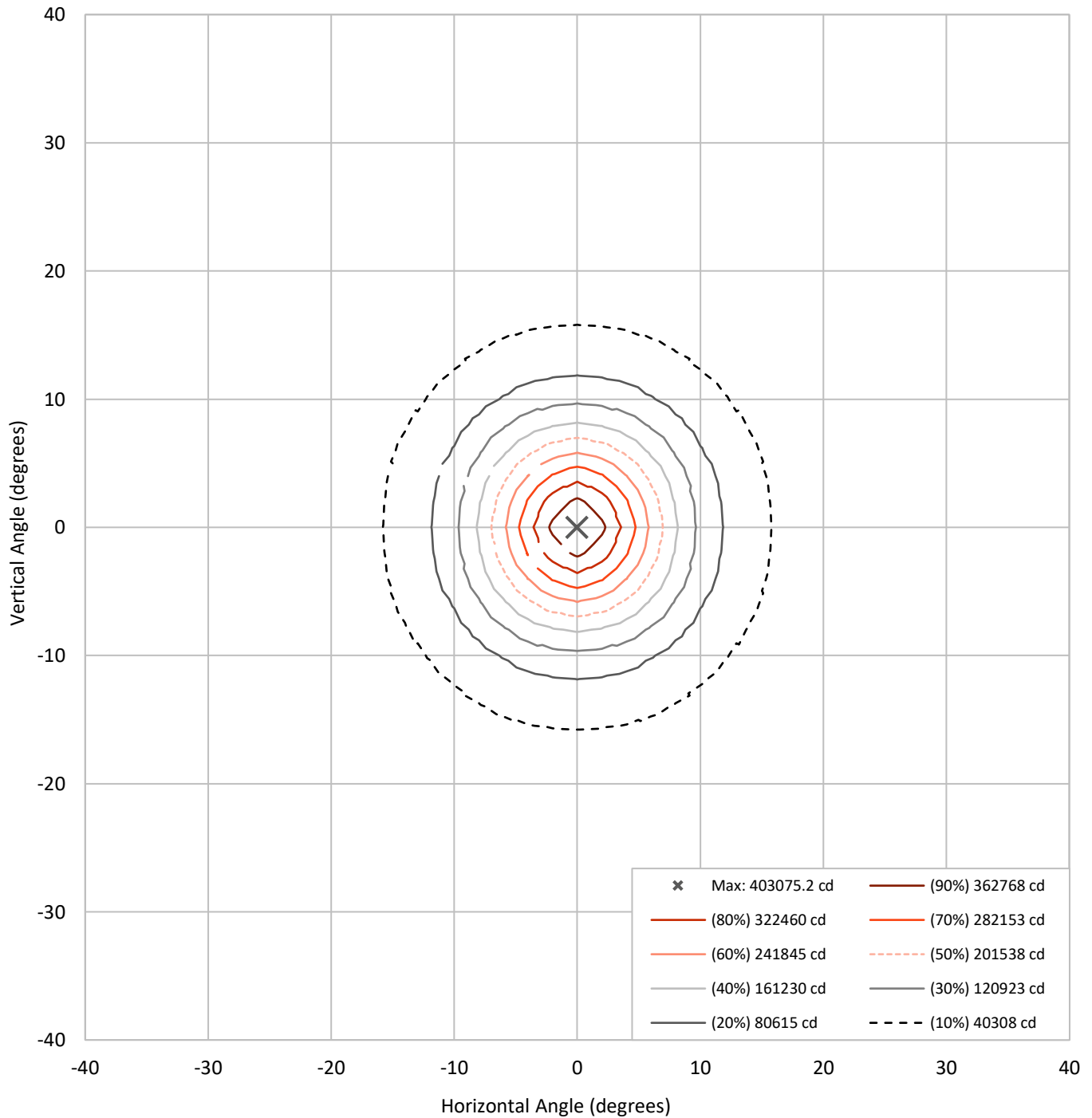
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	43317.4 lumens	Max Intensity:	403075.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	9472.3 lumens	Field Lumens:	22055.5 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 320  
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





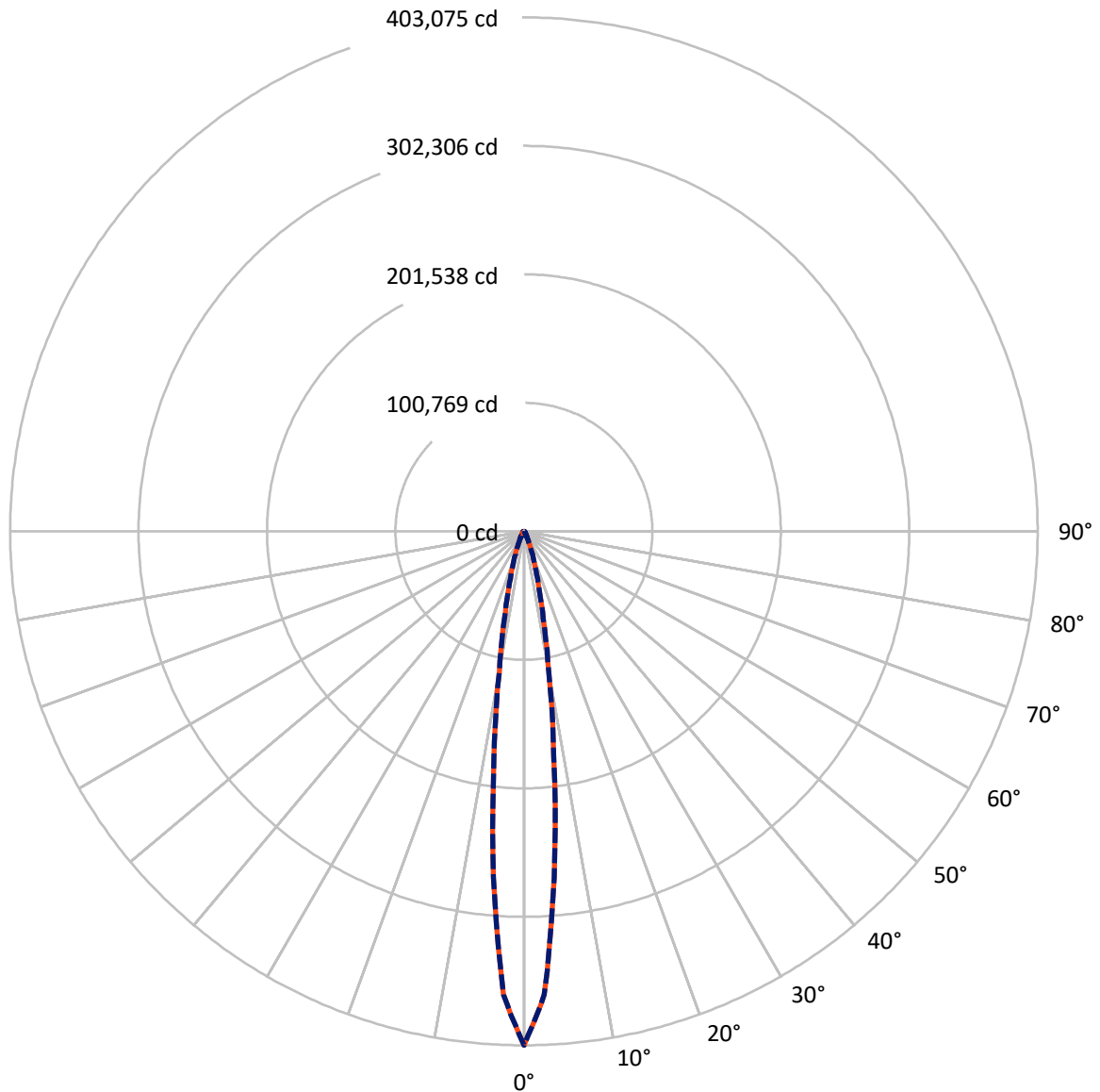
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### Lumen Table

90	0.7	5.6		14.9		24.2		28.1		24.2		14.9		5.6		0.7
80	0.7	5.6		14.9		24.2		28.1		24.2		14.9		5.6		0.7
70	2.6	2.8	6.0	10.0	14.1	17.8	20.6	22.1	22.1	20.6	17.8	14.1	10.0	6.0	2.8	2.6
60		4.4	9.3	15.0	20.7	25.8	29.7	31.8	31.8	29.7	25.8	20.7	15.0	9.3	4.4	
50	4.6	6.0	12.2	19.2	26.6	34.2	41.3	45.8	45.8	41.3	34.2	26.6	19.2	12.2	6.0	4.6
40		7.4	14.6	23.0	33.7	48.3	66.0	81.1	81.1	66.0	48.3	33.7	23.0	14.6	7.4	
30	6.2	8.4	16.4	26.8	43.7	77.2	157.5	269.6	269.6	157.5	77.2	43.7	26.8	16.4	8.4	6.2
20		9.1	17.7	30.4	56.2	148.5	534.1	1326.3	1326.3	534.1	148.5	56.2	30.4	17.7	9.1	
10	6.8	9.5	18.4	32.7	67.1	247.4	1292.3	5674.2	5674.2	1292.3	247.4	67.1	32.7	18.4	9.5	6.8
0		9.5	18.4	32.7	67.1	247.4	1292.3	5674.2	5674.2	1292.3	247.4	67.1	32.7	18.4	9.5	
-10	6.2	9.1	17.7	30.4	56.2	148.5	534.1	1326.3	1326.3	534.1	148.5	56.2	30.4	17.7	9.1	6.2
-20		8.4	16.4	26.8	43.7	77.2	157.5	269.6	269.6	157.5	77.2	43.7	26.8	16.4	8.4	
-30	4.6	7.4	14.6	23.0	33.7	48.3	66.0	81.1	81.1	66.0	48.3	33.7	23.0	14.6	7.4	4.6
-40		6.0	12.2	19.2	26.6	34.2	41.3	45.8	45.8	41.3	34.2	26.6	19.2	12.2	6.0	
-50	2.6	4.4	9.3	15.0	20.7	25.8	29.7	31.8	31.8	29.7	25.8	20.7	15.0	9.3	4.4	2.6
-60		2.8	6.0	10.0	14.1	17.8	20.6	22.1	22.1	20.6	17.8	14.1	10.0	6.0	2.8	
-70	0.7	5.6		14.9		24.2		28.1		24.2		14.9		5.6		0.7
-80		5.6		14.9		24.2		28.1		24.2		14.9		5.6		
-90	0.7	5.6		14.9		24.2		28.1		24.2		14.9		5.6		0.7

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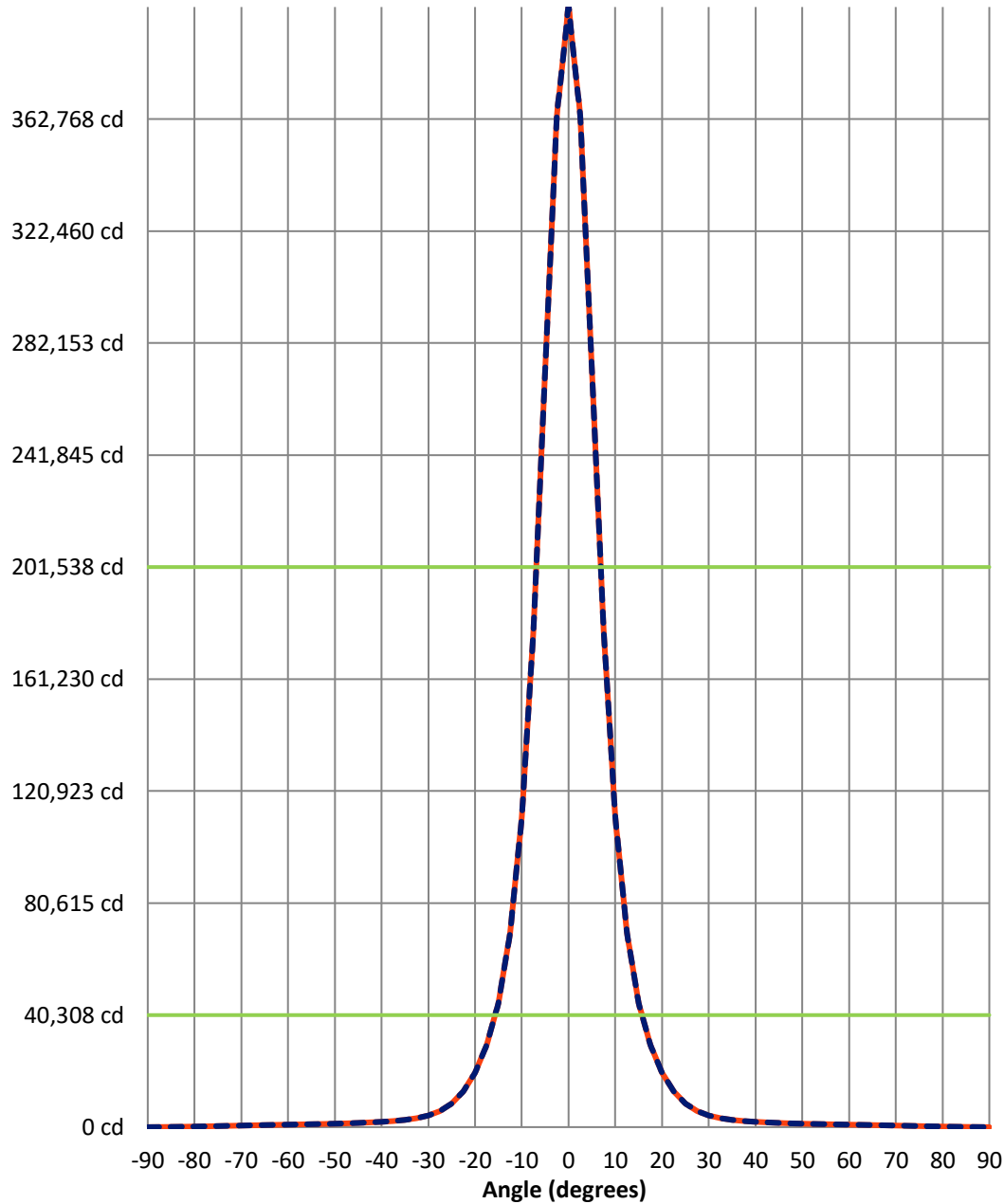
### Luminous Intensity Polar Plot



— 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: 9472.3  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 22055.5  
Efficiency: 50.9%

**Spill:**  
Lumens: 21261.9  
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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	31.5	31.5
85°	81.1	81.1	81.1	81.1	81.1	81.1	76.6	76.6	76.6	72.1	72.1
82.5°	135.2	135.2	135.2	135.2	130.7	130.7	130.7	126.2	126.2	121.7	121.7
80°	207.3	207.3	207.3	207.3	202.8	198.3	198.3	193.8	189.3	184.8	180.3
77.5°	283.9	283.9	283.9	279.4	279.4	274.9	270.4	265.9	261.4	252.4	247.9
75°	374.0	374.0	374.0	369.5	365.0	360.5	356.0	347.0	342.5	333.5	324.5
72.5°	468.7	468.7	468.7	464.2	459.7	450.6	446.1	437.1	428.1	414.6	405.6
70°	558.8	558.8	558.8	554.3	545.3	540.8	531.8	522.7	513.7	500.2	486.7
67.5°	648.9	648.9	648.9	639.9	635.4	630.9	621.9	608.4	599.4	585.8	567.8
65°	734.6	734.6	730.0	725.5	721.0	712.0	703.0	694.0	680.5	667.0	648.9
62.5°	820.2	820.2	815.7	811.2	806.7	797.6	784.1	775.1	757.1	743.6	725.5
60°	892.3	892.3	887.8	883.3	878.8	869.7	860.7	847.2	833.7	820.2	802.1
57.5°	968.9	968.9	964.4	959.9	950.9	941.8	932.8	919.3	901.3	883.3	869.7
55°	1054.5	1054.5	1050.0	1041.0	1032.0	1023.0	1009.4	991.4	973.4	955.4	932.8
52.5°	1135.6	1135.6	1131.1	1122.1	1113.1	1104.1	1086.1	1072.5	1050.0	1027.5	1000.4
50°	1234.8	1234.8	1225.8	1216.7	1207.7	1189.7	1171.7	1149.1	1126.6	1099.6	1077.0
47.5°	1347.4	1347.4	1338.4	1329.4	1311.4	1293.4	1266.3	1239.3	1212.2	1180.7	1144.6
45°	1505.2	1505.2	1491.6	1473.6	1451.1	1419.5	1383.5	1347.4	1306.9	1270.8	1230.3
42.5°	1698.9	1698.9	1680.9	1658.4	1626.8	1586.3	1536.7	1487.1	1433.1	1374.5	1320.4
40°	1901.7	1901.7	1879.2	1856.7	1820.6	1771.0	1717.0	1653.9	1586.3	1509.7	1442.1
37.5°	2181.1	2181.1	2149.6	2109.0	2054.9	1987.3	1906.2	1834.1	1757.5	1671.9	1581.8
35°	2595.7	2595.7	2546.1	2478.5	2392.9	2280.3	2158.6	2054.9	1937.8	1834.1	1735.0
32.5°	3208.6	3208.6	3123.0	3023.8	2879.6	2699.4	2523.6	2356.9	2181.1	2032.4	1888.2
30°	4173.0	4173.0	4028.8	3848.5	3605.2	3294.2	3032.8	2762.5	2505.6	2289.3	2091.0
27.5°	5777.3	5709.7	5511.4	5182.4	4731.8	4173.0	3771.9	3316.7	2956.2	2604.7	2347.9
25°	8481.1	8355.0	7980.9	7363.5	6529.9	5606.0	4876.0	4100.9	3551.1	3050.9	2649.8
22.5°	12874.9	12645.1	11960.1	10842.5	9332.9	7854.7	6507.3	5313.1	4330.7	3632.2	3050.9
20°	19562.5	19161.4	17980.7	16070.0	13492.3	11207.5	8805.6	7034.6	5461.8	4330.7	3551.1
17.5°	29611.9	28917.9	26885.5	23609.3	19562.5	15840.2	12180.9	9265.3	7034.6	5313.1	4100.9
15°	44645.4	43428.7	39877.6	34231.0	27746.2	21842.8	16646.8	12180.9	8805.6	6507.3	4876.0
12.5°	69886.1	67425.6	60314.4	49224.0	38886.2	29183.8	21842.8	15840.2	11207.5	7854.7	5606.0
10°	111588.8	106505.5	92089.4	70269.1	53671.9	38886.2	27746.2	19562.5	13492.3	9332.9	6529.9
7.5°	179185.6	168275.5	138465.3	101724.2	70269.1	49224.0	34231.0	23609.3	16070.0	10842.5	7363.5
5°	272419.6	250464.2	195350.2	138465.3	92089.4	60314.4	39877.6	26885.5	17980.7	11960.1	7980.9
2.5°	363828.5	325987.8	250464.2	168275.5	106505.5	67425.6	43428.7	28917.9	19161.4	12645.1	8355.0
0°	403075.2	363828.5	272419.6	179185.6	111588.8	69886.1	44645.4	29611.9	19562.5	12874.9	8481.1



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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°	31.5	31.5	31.5	31.5	27.0	27.0	27.0	27.0	22.5	22.5	22.5
85°	72.1	67.6	67.6	63.1	63.1	58.6	58.6	54.1	54.1	49.6	45.1
82.5°	117.2	112.7	108.2	103.6	103.6	99.1	94.6	85.6	81.1	76.6	72.1
80°	175.8	166.7	162.2	153.2	148.7	139.7	130.7	126.2	117.2	112.7	103.6
77.5°	238.8	229.8	225.3	211.8	202.8	193.8	184.8	171.2	162.2	148.7	135.2
75°	310.9	301.9	288.4	274.9	265.9	252.4	238.8	225.3	207.3	193.8	180.3
72.5°	392.1	378.5	365.0	347.0	329.0	315.5	292.9	274.9	261.4	243.3	225.3
70°	473.2	459.7	441.6	423.6	401.1	383.0	360.5	338.0	315.5	292.9	270.4
67.5°	554.3	536.3	518.2	495.7	473.2	450.6	428.1	401.1	374.0	347.0	320.0
65°	630.9	612.9	590.3	567.8	545.3	518.2	491.2	464.2	432.6	401.1	374.0
62.5°	707.5	685.0	662.4	639.9	612.9	585.8	558.8	522.7	491.2	459.7	423.6
60°	779.6	757.1	734.6	707.5	680.5	648.9	617.4	585.8	549.8	513.7	477.7
57.5°	847.2	824.7	802.1	770.6	743.6	712.0	676.0	644.4	603.9	567.8	527.3
55°	910.3	887.8	860.7	833.7	806.7	770.6	734.6	698.5	657.9	617.4	572.3
52.5°	973.4	946.4	919.3	892.3	860.7	829.2	793.1	752.6	712.0	667.0	621.9
50°	1045.5	1014.0	977.9	946.4	910.3	878.8	842.7	802.1	761.6	712.0	667.0
47.5°	1113.1	1081.5	1045.5	1004.9	968.9	928.3	887.8	851.7	806.7	761.6	712.0
45°	1189.7	1144.6	1108.6	1068.0	1023.0	977.9	937.3	892.3	851.7	802.1	752.6
42.5°	1270.8	1221.2	1171.7	1122.1	1081.5	1032.0	982.4	937.3	887.8	842.7	793.1
40°	1365.5	1306.9	1243.8	1189.7	1135.6	1086.1	1032.0	977.9	928.3	878.8	829.2
37.5°	1487.1	1406.0	1324.9	1257.3	1194.2	1135.6	1081.5	1023.0	968.9	910.3	860.7
35°	1631.3	1518.7	1424.0	1329.4	1257.3	1189.7	1122.1	1068.0	1004.9	946.4	892.3
32.5°	1775.5	1653.9	1532.2	1424.0	1324.9	1243.8	1171.7	1108.6	1045.5	977.9	919.3
30°	1924.3	1789.1	1653.9	1518.7	1406.0	1306.9	1221.2	1144.6	1081.5	1014.0	946.4
27.5°	2113.5	1924.3	1775.5	1631.3	1487.1	1365.5	1270.8	1189.7	1113.1	1045.5	973.4
25°	2347.9	2091.0	1888.2	1735.0	1581.8	1442.1	1320.4	1230.3	1144.6	1077.0	1000.4
22.5°	2604.7	2289.3	2032.4	1834.1	1671.9	1509.7	1374.5	1270.8	1180.7	1099.6	1027.5
20°	2956.2	2505.6	2181.1	1937.8	1757.5	1586.3	1433.1	1306.9	1212.2	1126.6	1050.0
17.5°	3316.7	2762.5	2356.9	2054.9	1834.1	1653.9	1487.1	1347.4	1239.3	1149.1	1072.5
15°	3771.9	3032.8	2523.6	2158.6	1906.2	1717.0	1536.7	1383.5	1266.3	1171.7	1086.1
12.5°	4173.0	3294.2	2699.4	2280.3	1987.3	1771.0	1586.3	1419.5	1293.4	1189.7	1104.1
10°	4731.8	3605.2	2879.6	2392.9	2054.9	1820.6	1626.8	1451.1	1311.4	1207.7	1113.1
7.5°	5182.4	3848.5	3023.8	2478.5	2109.0	1856.7	1658.4	1473.6	1329.4	1216.7	1122.1
5°	5511.4	4028.8	3123.0	2546.1	2149.6	1879.2	1680.9	1491.6	1338.4	1225.8	1131.1
2.5°	5709.7	4173.0	3208.6	2595.7	2181.1	1901.7	1698.9	1505.2	1347.4	1234.8	1135.6
0°	5777.3	4173.0	3208.6	2595.7	2181.1	1901.7	1698.9	1505.2	1347.4	1234.8	1135.6





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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°	22.5	18.0	18.0	18.0	13.5	13.5	13.5	9.0	9.0	9.0	4.5
85°	40.6	40.6	36.1	31.5	31.5	27.0	22.5	22.5	18.0	13.5	13.5
82.5°	67.6	63.1	58.6	54.1	49.6	40.6	36.1	31.5	27.0	22.5	18.0
80°	94.6	90.1	81.1	72.1	67.6	58.6	54.1	45.1	36.1	31.5	27.0
77.5°	126.2	117.2	108.2	99.1	85.6	76.6	67.6	58.6	49.6	40.6	31.5
75°	166.7	148.7	135.2	121.7	108.2	94.6	81.1	72.1	58.6	49.6	36.1
72.5°	207.3	189.3	166.7	148.7	130.7	117.2	99.1	85.6	72.1	58.6	45.1
70°	247.9	225.3	202.8	180.3	157.7	135.2	117.2	99.1	81.1	67.6	54.1
67.5°	288.4	265.9	238.8	211.8	189.3	162.2	135.2	117.2	94.6	76.6	58.6
65°	338.0	306.4	274.9	247.9	216.3	189.3	157.7	130.7	108.2	85.6	67.6
62.5°	387.6	351.5	315.5	279.4	247.9	211.8	180.3	148.7	121.7	99.1	72.1
60°	437.1	396.6	356.0	315.5	274.9	238.8	202.8	166.7	135.2	108.2	81.1
57.5°	486.7	441.6	396.6	351.5	306.4	265.9	225.3	189.3	148.7	117.2	90.1
55°	531.8	486.7	437.1	387.6	338.0	288.4	247.9	207.3	166.7	126.2	94.6
52.5°	572.3	527.3	477.7	423.6	374.0	320.0	270.4	225.3	180.3	135.2	103.6
50°	617.4	567.8	513.7	459.7	401.1	347.0	292.9	243.3	193.8	148.7	112.7
47.5°	657.9	603.9	549.8	491.2	432.6	374.0	315.5	261.4	207.3	162.2	117.2
45°	698.5	644.4	585.8	522.7	464.2	401.1	338.0	274.9	225.3	171.2	126.2
42.5°	734.6	676.0	617.4	558.8	491.2	428.1	360.5	292.9	238.8	184.8	130.7
40°	770.6	712.0	648.9	585.8	518.2	450.6	383.0	315.5	252.4	193.8	139.7
37.5°	806.7	743.6	680.5	612.9	545.3	473.2	401.1	329.0	265.9	202.8	148.7
35°	833.7	770.6	707.5	639.9	567.8	495.7	423.6	347.0	274.9	211.8	153.2
32.5°	860.7	802.1	734.6	662.4	590.3	518.2	441.6	365.0	288.4	225.3	162.2
30°	887.8	824.7	757.1	685.0	612.9	536.3	459.7	378.5	301.9	229.8	166.7
27.5°	910.3	847.2	779.6	707.5	630.9	554.3	473.2	392.1	310.9	238.8	175.8
25°	932.8	869.7	802.1	725.5	648.9	567.8	486.7	405.6	324.5	247.9	180.3
22.5°	955.4	883.3	820.2	743.6	667.0	585.8	500.2	414.6	333.5	252.4	184.8
20°	973.4	901.3	833.7	757.1	680.5	599.4	513.7	428.1	342.5	261.4	189.3
17.5°	991.4	919.3	847.2	775.1	694.0	608.4	522.7	437.1	347.0	265.9	193.8
15°	1009.4	932.8	860.7	784.1	703.0	621.9	531.8	446.1	356.0	270.4	198.3
12.5°	1023.0	941.8	869.7	797.6	712.0	630.9	540.8	450.6	360.5	274.9	198.3
10°	1032.0	950.9	878.8	806.7	721.0	635.4	545.3	459.7	365.0	279.4	202.8
7.5°	1041.0	959.9	883.3	811.2	725.5	639.9	554.3	464.2	369.5	279.4	207.3
5°	1050.0	964.4	887.8	815.7	730.0	648.9	558.8	468.7	374.0	283.9	207.3
2.5°	1054.5	968.9	892.3	820.2	734.6	648.9	558.8	468.7	374.0	283.9	207.3
0°	1054.5	968.9	892.3	820.2	734.6	648.9	558.8	468.7	374.0	283.9	207.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	0.0	0.0
85°	9.0	4.5	4.5	0.0
82.5°	13.5	9.0	4.5	0.0
80°	18.0	13.5	4.5	0.0
77.5°	22.5	13.5	9.0	0.0
75°	27.0	18.0	9.0	0.0
72.5°	31.5	22.5	9.0	0.0
70°	36.1	22.5	13.5	0.0
67.5°	40.6	27.0	13.5	0.0
65°	49.6	31.5	13.5	0.0
62.5°	54.1	31.5	18.0	0.0
60°	58.6	36.1	18.0	0.0
57.5°	63.1	40.6	18.0	0.0
55°	67.6	40.6	22.5	0.0
52.5°	72.1	45.1	22.5	0.0
50°	76.6	49.6	22.5	0.0
47.5°	81.1	54.1	22.5	0.0
45°	85.6	54.1	27.0	0.0
42.5°	94.6	58.6	27.0	0.0
40°	99.1	58.6	27.0	0.0
37.5°	103.6	63.1	27.0	0.0
35°	103.6	63.1	31.5	0.0
32.5°	108.2	67.6	31.5	0.0
30°	112.7	67.6	31.5	0.0
27.5°	117.2	72.1	31.5	0.0
25°	121.7	72.1	31.5	0.0
22.5°	121.7	72.1	31.5	0.0
20°	126.2	76.6	36.1	0.0
17.5°	126.2	76.6	36.1	0.0
15°	130.7	76.6	36.1	0.0
12.5°	130.7	81.1	36.1	0.0
10°	130.7	81.1	36.1	0.0
7.5°	135.2	81.1	36.1	0.0
5°	135.2	81.1	36.1	0.0
2.5°	135.2	81.1	36.1	0.0
0°	135.2	81.1	36.1	0.0

(END OF REPORT)