

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: P622987

Luminaire Tested: **IFLD-L-SA7E-722-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P622987  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	43266.9 lumens	Max Intensity:	402605.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	81.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

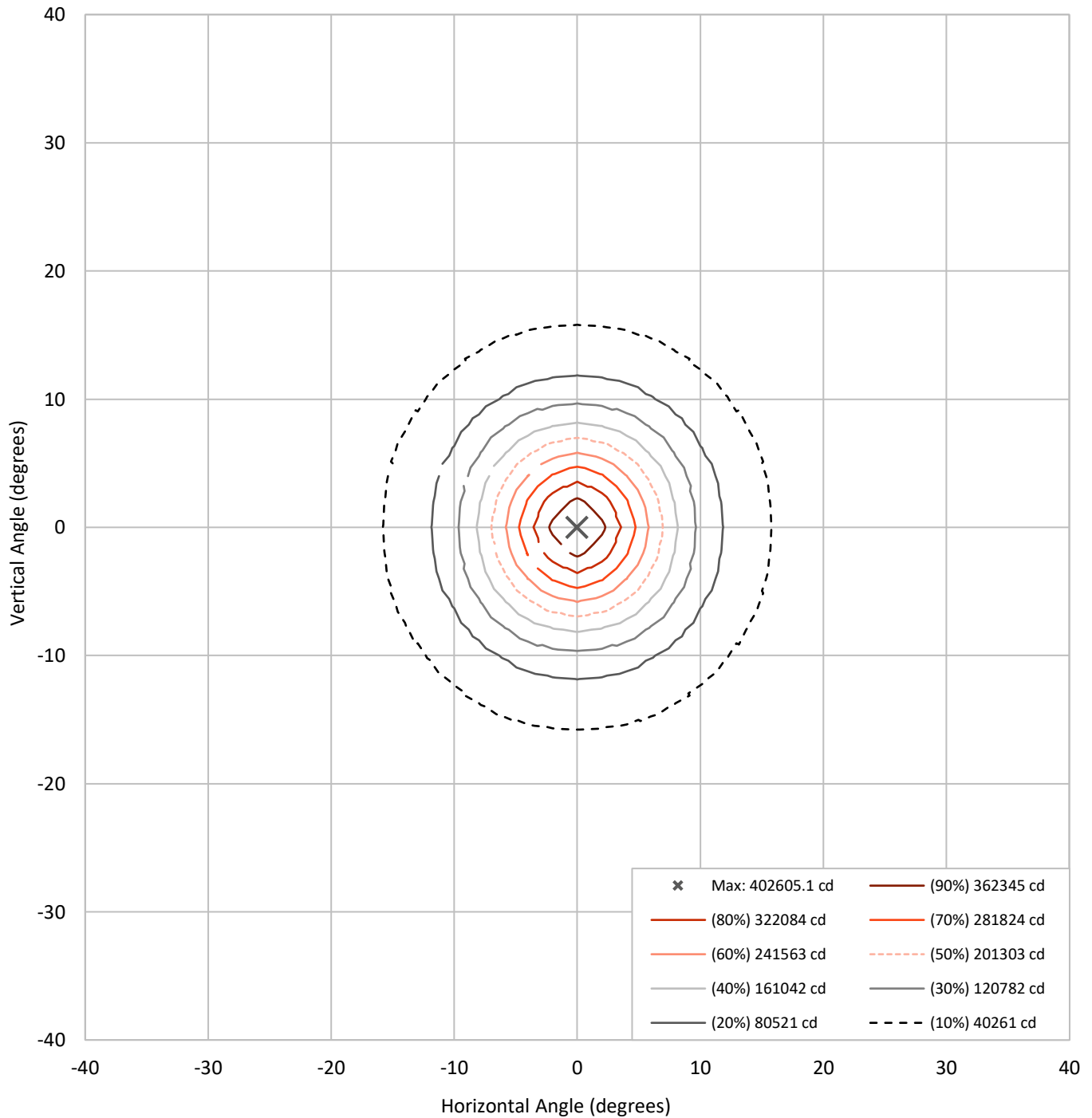
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	9461.2 lumens	Field Lumens:	22029.8 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 532.7  
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





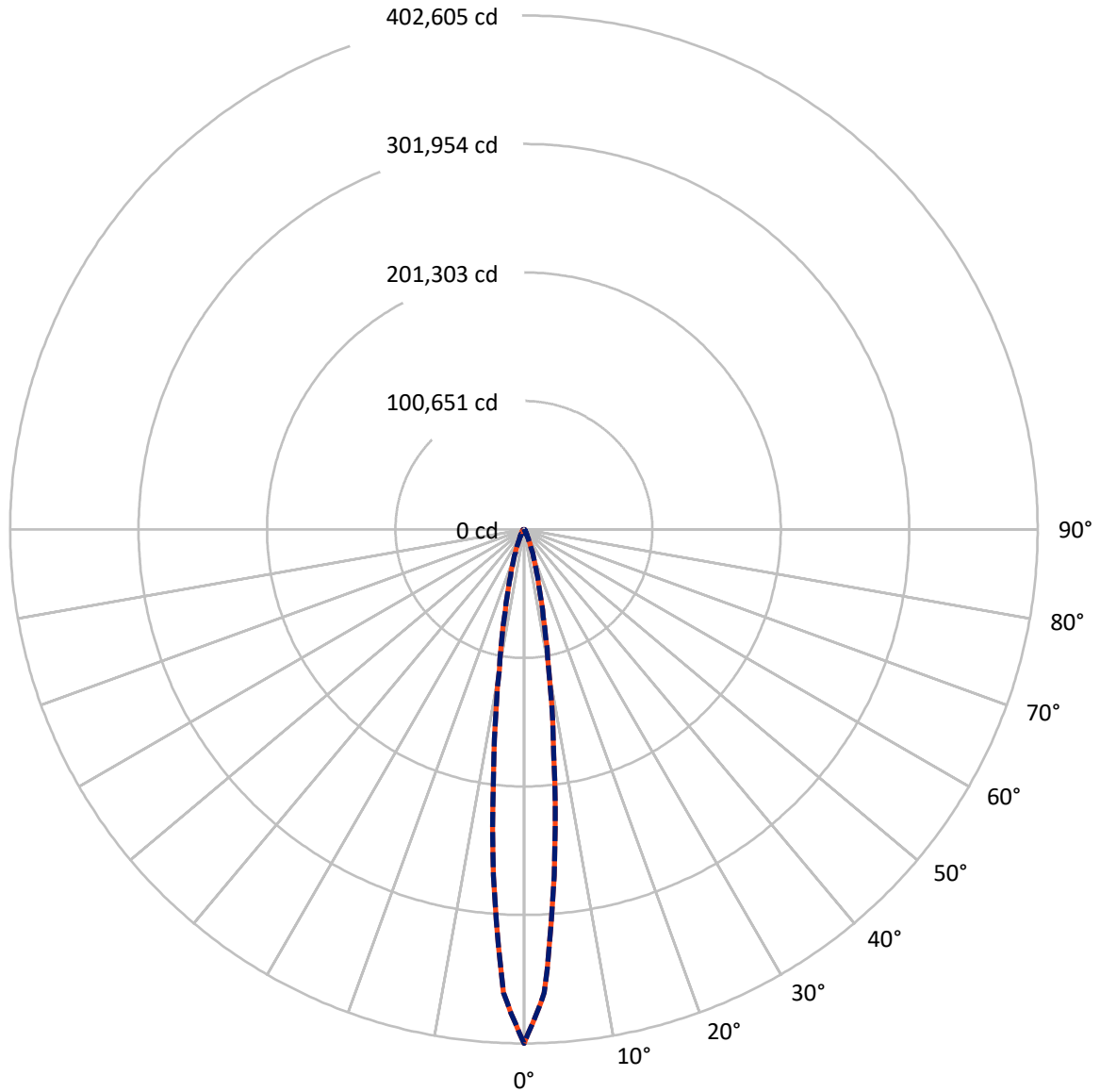
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### Lumen Table

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	22.0	22.0	20.6	17.8	14.1	10.0	6.0	2.8	2.6
60		4.4	9.3	15.0	20.7	25.7	29.6	31.7	31.7	29.6	25.7	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	14.5	23.0	33.7	48.2	65.9	81.0	81.0	65.9	48.2	33.7	23.0	14.5	7.4	
30	6.2	8.4	16.4	26.7	43.7	77.1	157.4	269.2	269.2	157.4	77.1	43.7	26.7	16.4	8.4	6.2
20		9.1	17.7	30.4	56.2	148.3	533.5	1324.7	1324.7	533.5	148.3	56.2	30.4	17.7	9.1	
10	6.8	9.5	18.4	32.7	67.1	247.1	1290.8	5667.6	5667.6	1290.8	247.1	67.1	32.7	18.4	9.5	6.8
0		9.5	18.4	32.7	67.1	247.1	1290.8	5667.6	5667.6	1290.8	247.1	67.1	32.7	18.4	9.5	
-10	6.2	9.1	17.7	30.4	56.2	148.3	533.5	1324.7	1324.7	533.5	148.3	56.2	30.4	17.7	9.1	6.2
-20		8.4	16.4	26.7	43.7	77.1	157.4	269.2	269.2	157.4	77.1	43.7	26.7	16.4	8.4	
-30	4.6	7.4	14.5	23.0	33.7	48.2	65.9	81.0	81.0	65.9	48.2	33.7	23.0	14.5	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	25.7	29.6	31.7	31.7	29.6	25.7	20.7	15.0	9.3	4.4	2.6
-60		2.8	6.0	10.0	14.1	17.8	20.6	22.0	22.0	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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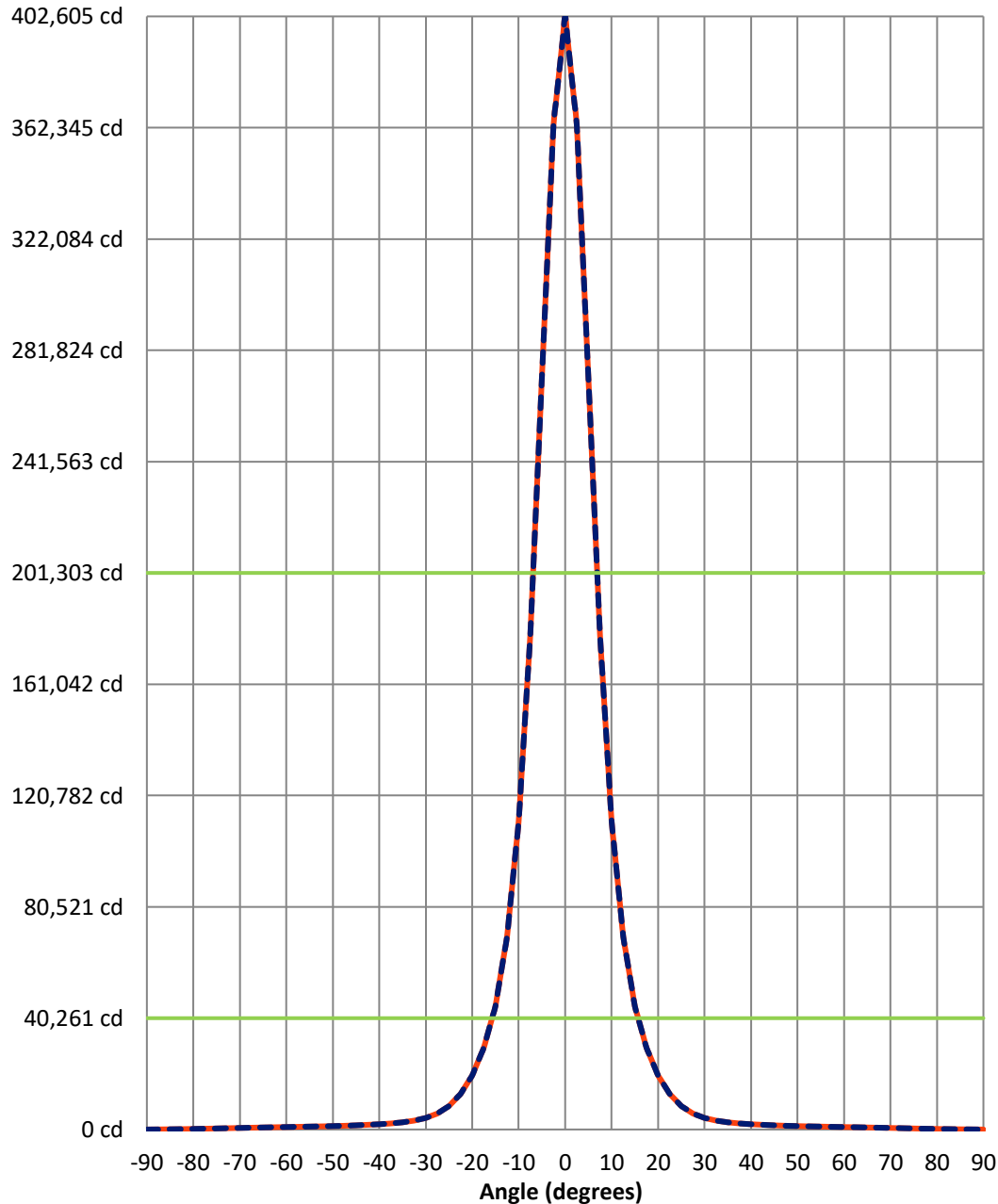
### Luminous Intensity Polar Plot



— 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: 9461.2  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 22029.8  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 21237.1  
 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°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	31.5	31.5
85°	81.0	81.0	81.0	81.0	81.0	81.0	76.5	76.5	76.5	72.0	72.0
82.5°	135.0	135.0	135.0	135.0	130.5	130.5	130.5	126.0	126.0	121.5	121.5
80°	207.1	207.1	207.1	207.1	202.6	198.1	198.1	193.6	189.1	184.5	180.0
77.5°	283.6	283.6	283.6	279.1	279.1	274.6	270.1	265.6	261.1	252.1	247.6
75°	373.6	373.6	373.6	369.1	364.6	360.1	355.6	346.6	342.1	333.1	324.1
72.5°	468.1	468.1	468.1	463.6	459.1	450.1	445.6	436.6	427.6	414.1	405.1
70°	558.1	558.1	558.1	553.6	544.6	540.1	531.1	522.1	513.1	499.6	486.1
67.5°	648.2	648.2	648.2	639.2	634.7	630.2	621.2	607.7	598.7	585.2	567.2
65°	733.7	733.7	729.2	724.7	720.2	711.2	702.2	693.2	679.7	666.2	648.2
62.5°	819.2	819.2	814.7	810.2	805.7	796.7	783.2	774.2	756.2	742.7	724.7
60°	891.2	891.2	886.7	882.2	877.7	868.7	859.7	846.2	832.7	819.2	801.2
57.5°	967.8	967.8	963.3	958.8	949.8	940.8	931.7	918.2	900.2	882.2	868.7
55°	1053.3	1053.3	1048.8	1039.8	1030.8	1021.8	1008.3	990.3	972.3	954.3	931.7
52.5°	1134.3	1134.3	1129.8	1120.8	1111.8	1102.8	1084.8	1071.3	1048.8	1026.3	999.3
50°	1233.3	1233.3	1224.3	1215.3	1206.3	1188.3	1170.3	1147.8	1125.3	1098.3	1075.8
47.5°	1345.9	1345.9	1336.9	1327.9	1309.8	1291.8	1264.8	1237.8	1210.8	1179.3	1143.3
45°	1503.4	1503.4	1489.9	1471.9	1449.4	1417.9	1381.9	1345.9	1305.3	1269.3	1228.8
42.5°	1697.0	1697.0	1678.9	1656.4	1624.9	1584.4	1534.9	1485.4	1431.4	1372.9	1318.9
40°	1899.5	1899.5	1877.0	1854.5	1818.5	1769.0	1715.0	1651.9	1584.4	1507.9	1440.4
37.5°	2178.6	2178.6	2147.1	2106.6	2052.5	1985.0	1904.0	1832.0	1755.5	1669.9	1579.9
35°	2592.7	2592.7	2543.2	2475.7	2390.1	2277.6	2156.1	2052.5	1935.5	1832.0	1733.0
32.5°	3204.9	3204.9	3119.3	3020.3	2876.3	2696.2	2520.7	2354.1	2178.6	2030.0	1886.0
30°	4168.1	4168.1	4024.1	3844.0	3601.0	3290.4	3029.3	2759.2	2502.7	2286.6	2088.6
27.5°	5770.5	5703.0	5505.0	5176.4	4726.3	4168.1	3767.5	3312.9	2952.8	2601.7	2345.1
25°	8471.3	8345.2	7971.6	7355.0	6522.2	5599.5	4870.3	4096.1	3546.9	3047.3	2646.7
22.5°	12859.9	12630.4	11946.2	10829.9	9322.0	7845.6	6499.7	5306.9	4325.7	3628.0	3047.3
20°	19539.7	19139.1	17959.8	16051.3	13476.6	11194.5	8795.3	7026.4	5455.5	4325.7	3546.9
17.5°	29577.4	28884.2	26854.1	23581.8	19539.7	15821.7	12166.7	9254.5	7026.4	5306.9	4096.1
15°	44593.4	43378.0	39831.1	34191.1	27713.9	21817.3	16627.4	12166.7	8795.3	6499.7	4870.3
12.5°	69804.6	67346.9	60244.0	49166.6	38840.8	29149.8	21817.3	15821.7	11194.5	7845.6	5599.5
10°	111458.6	106381.3	91982.0	70187.2	53609.3	38840.8	27713.9	19539.7	13476.6	9322.0	6522.2
7.5°	178976.6	168079.2	138303.8	101605.5	70187.2	49166.6	34191.1	23581.8	16051.3	10829.9	7355.0
5°	272101.9	250172.0	195122.4	138303.8	91982.0	60244.0	39831.1	26854.1	17959.8	11946.2	7971.6
2.5°	363404.2	325607.6	250172.0	168079.2	106381.3	67346.9	43378.0	28884.2	19139.1	12630.4	8345.2
0°	402605.1	363404.2	272101.9	178976.6	111458.6	69804.6	44593.4	29577.4	19539.7	12859.9	8471.3



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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°	31.5	31.5	31.5	31.5	27.0	27.0	27.0	27.0	22.5	22.5	22.5
85°	72.0	67.5	67.5	63.0	63.0	58.5	58.5	54.0	54.0	49.5	45.0
82.5°	117.0	112.5	108.0	103.5	103.5	99.0	94.5	85.5	81.0	76.5	72.0
80°	175.5	166.5	162.0	153.0	148.5	139.5	130.5	126.0	117.0	112.5	103.5
77.5°	238.6	229.6	225.1	211.6	202.6	193.6	184.5	171.0	162.0	148.5	135.0
75°	310.6	301.6	288.1	274.6	265.6	252.1	238.6	225.1	207.1	193.6	180.0
72.5°	391.6	378.1	364.6	346.6	328.6	315.1	292.6	274.6	261.1	243.1	225.1
70°	472.6	459.1	441.1	423.1	400.6	382.6	360.1	337.6	315.1	292.6	270.1
67.5°	553.6	535.6	517.6	495.1	472.6	450.1	427.6	400.6	373.6	346.6	319.6
65°	630.2	612.2	589.7	567.2	544.6	517.6	490.6	463.6	432.1	400.6	373.6
62.5°	706.7	684.2	661.7	639.2	612.2	585.2	558.1	522.1	490.6	459.1	423.1
60°	778.7	756.2	733.7	706.7	679.7	648.2	616.7	585.2	549.1	513.1	477.1
57.5°	846.2	823.7	801.2	769.7	742.7	711.2	675.2	643.7	603.2	567.2	526.6
55°	909.2	886.7	859.7	832.7	805.7	769.7	733.7	697.7	657.2	616.7	571.7
52.5°	972.3	945.3	918.2	891.2	859.7	828.2	792.2	751.7	711.2	666.2	621.2
50°	1044.3	1012.8	976.8	945.3	909.2	877.7	841.7	801.2	760.7	711.2	666.2
47.5°	1111.8	1080.3	1044.3	1003.8	967.8	927.2	886.7	850.7	805.7	760.7	711.2
45°	1188.3	1143.3	1107.3	1066.8	1021.8	976.8	936.2	891.2	850.7	801.2	751.7
42.5°	1269.3	1219.8	1170.3	1120.8	1080.3	1030.8	981.3	936.2	886.7	841.7	792.2
40°	1363.9	1305.3	1242.3	1188.3	1134.3	1084.8	1030.8	976.8	927.2	877.7	828.2
37.5°	1485.4	1404.4	1323.4	1255.8	1192.8	1134.3	1080.3	1021.8	967.8	909.2	859.7
35°	1629.4	1516.9	1422.4	1327.9	1255.8	1188.3	1120.8	1066.8	1003.8	945.3	891.2
32.5°	1773.5	1651.9	1530.4	1422.4	1323.4	1242.3	1170.3	1107.3	1044.3	976.8	918.2
30°	1922.0	1787.0	1651.9	1516.9	1404.4	1305.3	1219.8	1143.3	1080.3	1012.8	945.3
27.5°	2111.1	1922.0	1773.5	1629.4	1485.4	1363.9	1269.3	1188.3	1111.8	1044.3	972.3
25°	2345.1	2088.6	1886.0	1733.0	1579.9	1440.4	1318.9	1228.8	1143.3	1075.8	999.3
22.5°	2601.7	2286.6	2030.0	1832.0	1669.9	1507.9	1372.9	1269.3	1179.3	1098.3	1026.3
20°	2952.8	2502.7	2178.6	1935.5	1755.5	1584.4	1431.4	1305.3	1210.8	1125.3	1048.8
17.5°	3312.9	2759.2	2354.1	2052.5	1832.0	1651.9	1485.4	1345.9	1237.8	1147.8	1071.3
15°	3767.5	3029.3	2520.7	2156.1	1904.0	1715.0	1534.9	1381.9	1264.8	1170.3	1084.8
12.5°	4168.1	3290.4	2696.2	2277.6	1985.0	1769.0	1584.4	1417.9	1291.8	1188.3	1102.8
10°	4726.3	3601.0	2876.3	2390.1	2052.5	1818.5	1624.9	1449.4	1309.8	1206.3	1111.8
7.5°	5176.4	3844.0	3020.3	2475.7	2106.6	1854.5	1656.4	1471.9	1327.9	1215.3	1120.8
5°	5505.0	4024.1	3119.3	2543.2	2147.1	1877.0	1678.9	1489.9	1336.9	1224.3	1129.8
2.5°	5703.0	4168.1	3204.9	2592.7	2178.6	1899.5	1697.0	1503.4	1345.9	1233.3	1134.3
0°	5770.5	4168.1	3204.9	2592.7	2178.6	1899.5	1697.0	1503.4	1345.9	1233.3	1134.3





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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°	40.5	40.5	36.0	31.5	31.5	27.0	22.5	22.5	18.0	13.5	13.5
82.5°	67.5	63.0	58.5	54.0	49.5	40.5	36.0	31.5	27.0	22.5	18.0
80°	94.5	90.0	81.0	72.0	67.5	58.5	54.0	45.0	36.0	31.5	27.0
77.5°	126.0	117.0	108.0	99.0	85.5	76.5	67.5	58.5	49.5	40.5	31.5
75°	166.5	148.5	135.0	121.5	108.0	94.5	81.0	72.0	58.5	49.5	36.0
72.5°	207.1	189.1	166.5	148.5	130.5	117.0	99.0	85.5	72.0	58.5	45.0
70°	247.6	225.1	202.6	180.0	157.5	135.0	117.0	99.0	81.0	67.5	54.0
67.5°	288.1	265.6	238.6	211.6	189.1	162.0	135.0	117.0	94.5	76.5	58.5
65°	337.6	306.1	274.6	247.6	216.1	189.1	157.5	130.5	108.0	85.5	67.5
62.5°	387.1	351.1	315.1	279.1	247.6	211.6	180.0	148.5	121.5	99.0	72.0
60°	436.6	396.1	355.6	315.1	274.6	238.6	202.6	166.5	135.0	108.0	81.0
57.5°	486.1	441.1	396.1	351.1	306.1	265.6	225.1	189.1	148.5	117.0	90.0
55°	531.1	486.1	436.6	387.1	337.6	288.1	247.6	207.1	166.5	126.0	94.5
52.5°	571.7	526.6	477.1	423.1	373.6	319.6	270.1	225.1	180.0	135.0	103.5
50°	616.7	567.2	513.1	459.1	400.6	346.6	292.6	243.1	193.6	148.5	112.5
47.5°	657.2	603.2	549.1	490.6	432.1	373.6	315.1	261.1	207.1	162.0	117.0
45°	697.7	643.7	585.2	522.1	463.6	400.6	337.6	274.6	225.1	171.0	126.0
42.5°	733.7	675.2	616.7	558.1	490.6	427.6	360.1	292.6	238.6	184.5	130.5
40°	769.7	711.2	648.2	585.2	517.6	450.1	382.6	315.1	252.1	193.6	139.5
37.5°	805.7	742.7	679.7	612.2	544.6	472.6	400.6	328.6	265.6	202.6	148.5
35°	832.7	769.7	706.7	639.2	567.2	495.1	423.1	346.6	274.6	211.6	153.0
32.5°	859.7	801.2	733.7	661.7	589.7	517.6	441.1	364.6	288.1	225.1	162.0
30°	886.7	823.7	756.2	684.2	612.2	535.6	459.1	378.1	301.6	229.6	166.5
27.5°	909.2	846.2	778.7	706.7	630.2	553.6	472.6	391.6	310.6	238.6	175.5
25°	931.7	868.7	801.2	724.7	648.2	567.2	486.1	405.1	324.1	247.6	180.0
22.5°	954.3	882.2	819.2	742.7	666.2	585.2	499.6	414.1	333.1	252.1	184.5
20°	972.3	900.2	832.7	756.2	679.7	598.7	513.1	427.6	342.1	261.1	189.1
17.5°	990.3	918.2	846.2	774.2	693.2	607.7	522.1	436.6	346.6	265.6	193.6
15°	1008.3	931.7	859.7	783.2	702.2	621.2	531.1	445.6	355.6	270.1	198.1
12.5°	1021.8	940.8	868.7	796.7	711.2	630.2	540.1	450.1	360.1	274.6	198.1
10°	1030.8	949.8	877.7	805.7	720.2	634.7	544.6	459.1	364.6	279.1	202.6
7.5°	1039.8	958.8	882.2	810.2	724.7	639.2	553.6	463.6	369.1	279.1	207.1
5°	1048.8	963.3	886.7	814.7	729.2	648.2	558.1	468.1	373.6	283.6	207.1
2.5°	1053.3	967.8	891.2	819.2	733.7	648.2	558.1	468.1	373.6	283.6	207.1
0°	1053.3	967.8	891.2	819.2	733.7	648.2	558.1	468.1	373.6	283.6	207.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	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°	36.0	22.5	13.5	0.0
67.5°	40.5	27.0	13.5	0.0
65°	49.5	31.5	13.5	0.0
62.5°	54.0	31.5	18.0	0.0
60°	58.5	36.0	18.0	0.0
57.5°	63.0	40.5	18.0	0.0
55°	67.5	40.5	22.5	0.0
52.5°	72.0	45.0	22.5	0.0
50°	76.5	49.5	22.5	0.0
47.5°	81.0	54.0	22.5	0.0
45°	85.5	54.0	27.0	0.0
42.5°	94.5	58.5	27.0	0.0
40°	99.0	58.5	27.0	0.0
37.5°	103.5	63.0	27.0	0.0
35°	103.5	63.0	31.5	0.0
32.5°	108.0	67.5	31.5	0.0
30°	112.5	67.5	31.5	0.0
27.5°	117.0	72.0	31.5	0.0
25°	121.5	72.0	31.5	0.0
22.5°	121.5	72.0	31.5	0.0
20°	126.0	76.5	36.0	0.0
17.5°	126.0	76.5	36.0	0.0
15°	130.5	76.5	36.0	0.0
12.5°	130.5	81.0	36.0	0.0
10°	130.5	81.0	36.0	0.0
7.5°	135.0	81.0	36.0	0.0
5°	135.0	81.0	36.0	0.0
2.5°	135.0	81.0	36.0	0.0
0°	135.0	81.0	36.0	0.0

(END OF REPORT)