

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: P623078

Luminaire Tested: **IFLD-L-SA8D-735-U-33**

Issue Date: 10/13/2022

Test Information

Test Method: LM-79-2019
Report Number: P623078
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-33
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	57211.6 lumens	Max Intensity:	532363.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

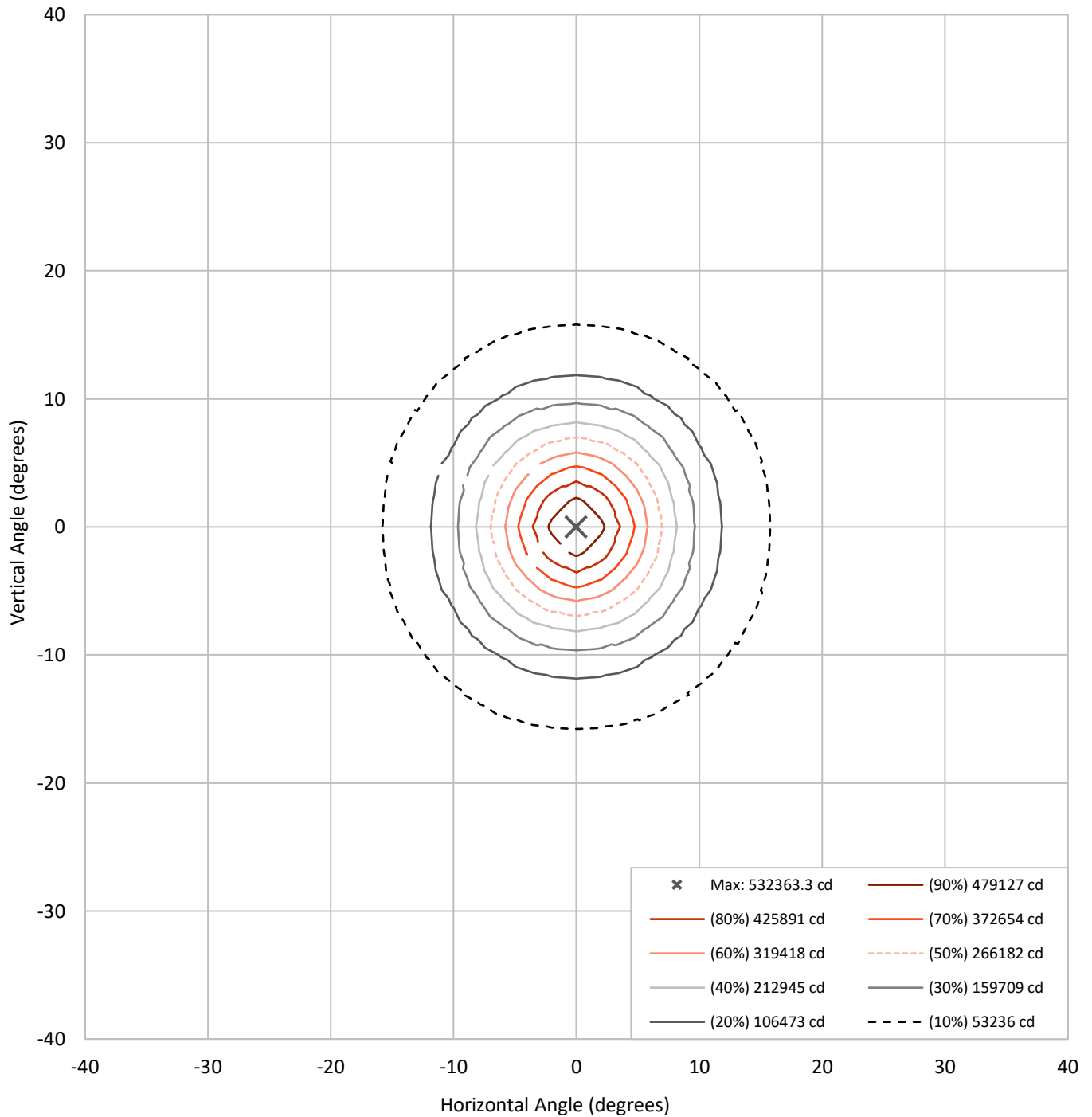
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	12510.6 lumens	Field Lumens:	29129.9 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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: 25 FT



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Iso-Candela Plot





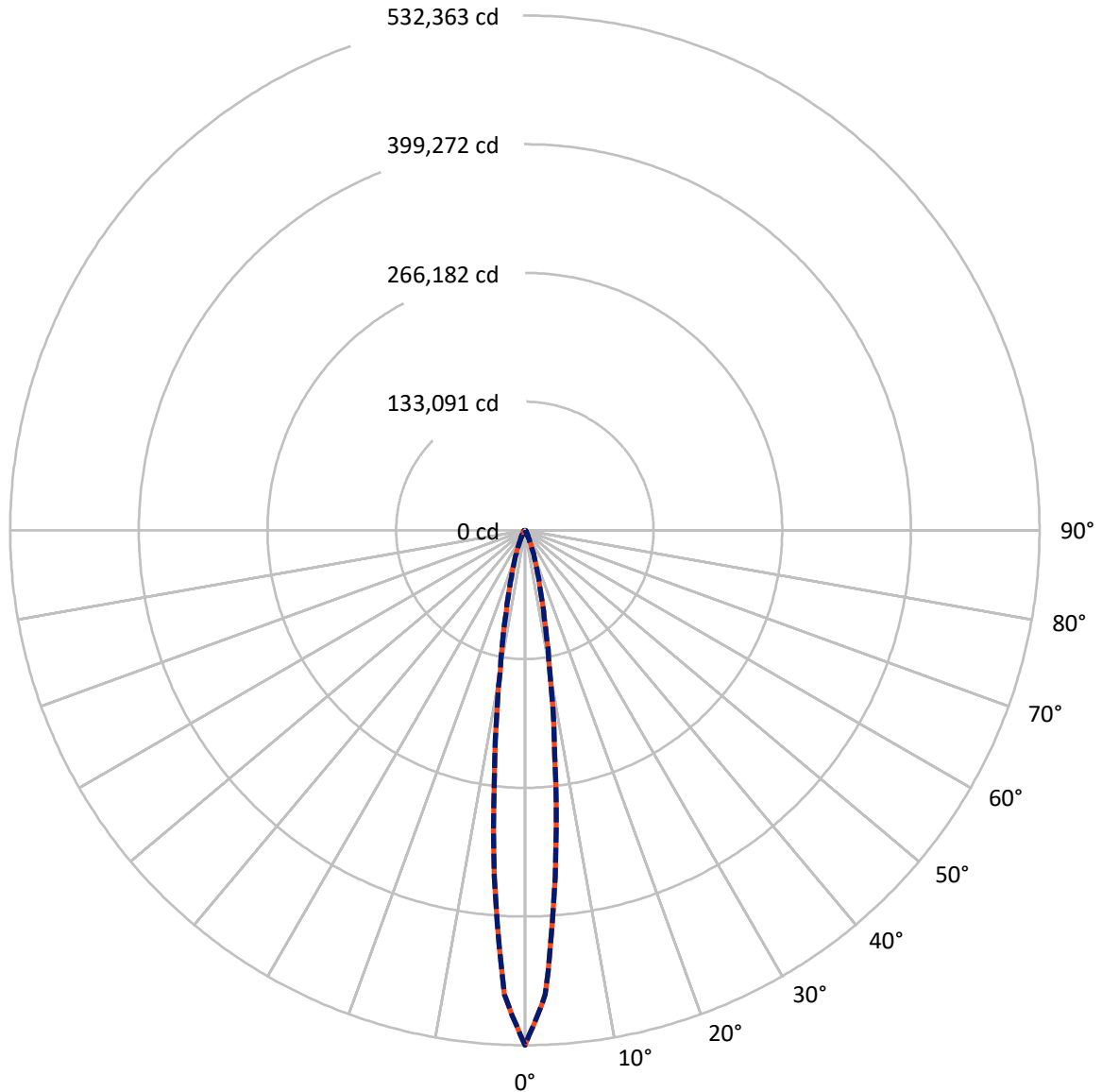
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Lumen Table

90	1.0	7.4	19.6	32.0	37.2	32.0	19.6	7.4	1.0										
80																			
70																			
60	3.4	3.8	7.9	13.2	18.7	23.5	27.2	29.1	29.1	27.2	23.5	18.7	13.2	7.9	3.8				3.4
50		5.9	12.3	19.8	27.4	34.0	39.2	42.0	42.0	39.2	34.0	27.4	19.8	12.3	5.9				
40	6.1	8.0	16.1	25.4	35.1	45.2	54.6	60.5	60.5	54.6	45.2	35.1	25.4	16.1	8.0				6.1
30		9.8	19.2	30.4	44.5	63.8	87.2	107.1	107.1	87.2	63.8	44.5	30.4	19.2	9.8				
20	8.2	11.1	21.6	35.3	57.8	101.9	208.1	356.0	356.0	208.1	101.9	57.8	35.3	21.6	11.1				8.2
10		12.1	23.4	40.1	74.3	196.1	705.4	1751.7	1751.7	705.4	196.1	74.3	40.1	23.4	12.1				
0	9.0	12.5	24.3	43.2	88.7	326.8	1706.8	7494.3	7494.3	1706.8	326.8	88.7	43.2	24.3	12.5				9.0
-10		12.5	24.3	43.2	88.7	326.8	1706.8	7494.3	7494.3	1706.8	326.8	88.7	43.2	24.3	12.5				
-20	8.2	12.1	23.4	40.1	74.3	196.1	705.4	1751.7	1751.7	705.4	196.1	74.3	40.1	23.4	12.1				8.2
-30		11.1	21.6	35.3	57.8	101.9	208.1	356.0	356.0	208.1	101.9	57.8	35.3	21.6	11.1				
-40	6.1	9.8	19.2	30.4	44.5	63.8	87.2	107.1	107.1	87.2	63.8	44.5	30.4	19.2	9.8				6.1
-50		8.0	16.1	25.4	35.1	45.2	54.6	60.5	60.5	54.6	45.2	35.1	25.4	16.1	8.0				
-60	3.4	5.9	12.3	19.8	27.4	34.0	39.2	42.0	42.0	39.2	34.0	27.4	19.8	12.3	5.9				3.4
-70		3.8	7.9	13.2	18.7	23.5	27.2	29.1	29.1	27.2	23.5	18.7	13.2	7.9	3.8				
-80	1.0	7.4	19.6	32.0	37.2	32.0	19.6	7.4	1.0										
-90																			

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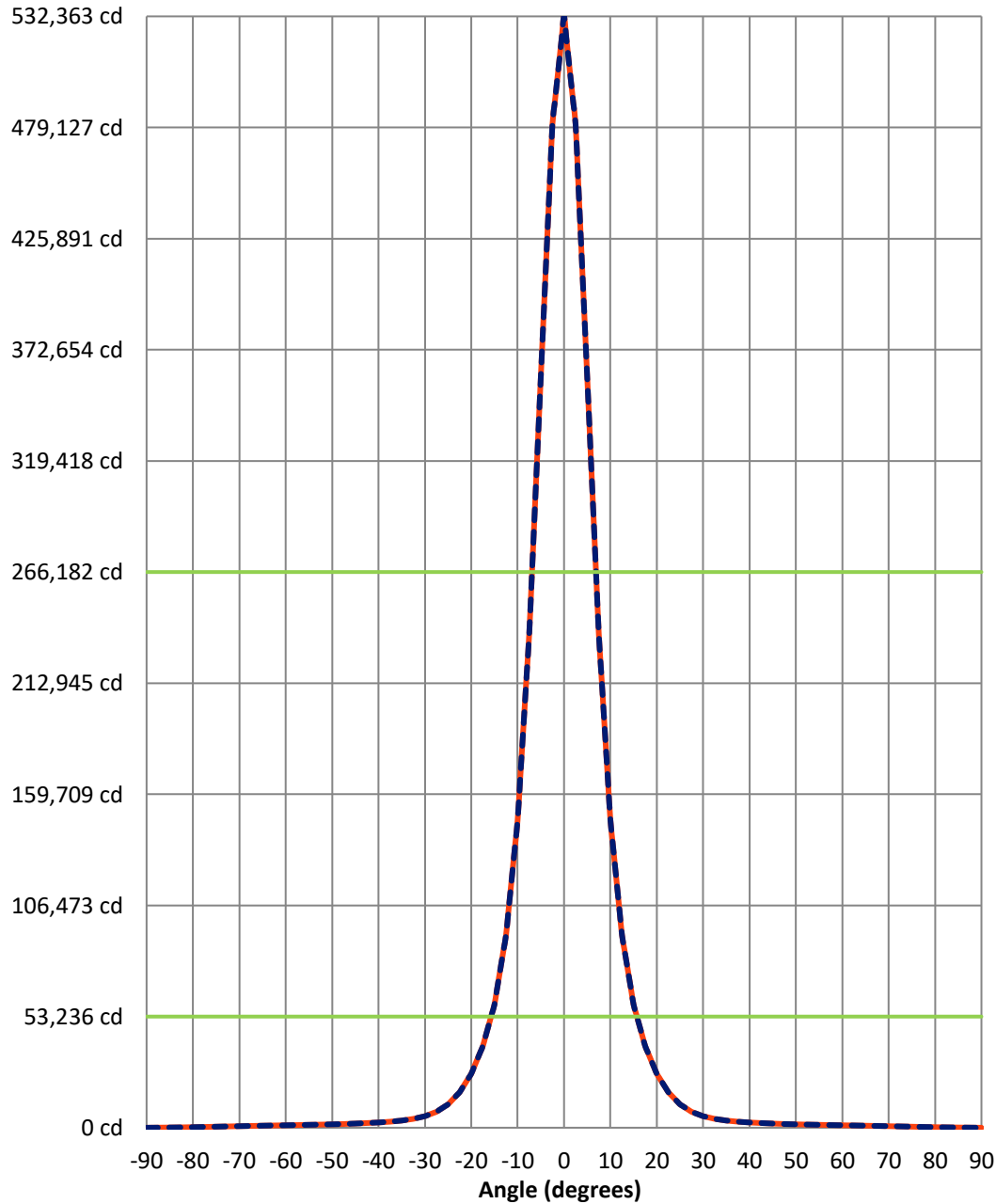
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 13.8°
 V Angle: 13.8°
 Lumens: 12510.6
 Efficiency: 21.9%

Field:
 H Angle: 31.4°
 V Angle: 31.4°
 Lumens: 29129.9
 Efficiency: 50.9%

Spill:
 Lumens: 28081.7
 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°	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	41.7	41.7
85°	107.1	107.1	107.1	107.1	107.1	107.1	101.2	101.2	101.2	95.2	95.2
82.5°	178.6	178.6	178.6	178.6	172.6	172.6	172.6	166.7	166.7	160.7	160.7
80°	273.8	273.8	273.8	273.8	267.8	261.9	261.9	255.9	250.0	244.0	238.1
77.5°	375.0	375.0	375.0	369.0	369.0	363.1	357.1	351.2	345.2	333.3	327.4
75°	494.0	494.0	494.0	488.1	482.1	476.2	470.2	458.3	452.3	440.4	428.5
72.5°	619.0	619.0	619.0	613.0	607.1	595.2	589.2	577.3	565.4	547.6	535.7
70°	738.0	738.0	738.0	732.1	720.2	714.2	702.3	690.4	678.5	660.7	642.8
67.5°	857.1	857.1	857.1	845.2	839.2	833.3	821.4	803.5	791.6	773.7	749.9
65°	970.2	970.2	964.2	958.3	952.3	940.4	928.5	916.6	898.7	880.9	857.1
62.5°	1083.2	1083.2	1077.3	1071.3	1065.4	1053.5	1035.6	1023.7	999.9	982.1	958.3
60°	1178.5	1178.5	1172.5	1166.6	1160.6	1148.7	1136.8	1119.0	1101.1	1083.2	1059.4
57.5°	1279.7	1279.7	1273.7	1267.8	1255.9	1244.0	1232.0	1214.2	1190.4	1166.6	1148.7
55°	1392.7	1392.7	1386.8	1374.9	1363.0	1351.1	1333.2	1309.4	1285.6	1261.8	1232.0
52.5°	1499.9	1499.9	1493.9	1482.0	1470.1	1458.2	1434.4	1416.6	1386.8	1357.0	1321.3
50°	1630.8	1630.8	1618.9	1607.0	1595.1	1571.3	1547.5	1517.7	1488.0	1452.3	1422.5
47.5°	1779.6	1779.6	1767.7	1755.8	1732.0	1708.2	1672.5	1636.8	1601.1	1559.4	1511.8
45°	1987.9	1987.9	1970.1	1946.3	1916.5	1874.9	1827.2	1779.6	1726.1	1678.4	1624.9
42.5°	2243.9	2243.9	2220.1	2190.3	2148.6	2095.1	2029.6	1964.1	1892.7	1815.3	1743.9
40°	2511.7	2511.7	2481.9	2452.2	2404.6	2339.1	2267.7	2184.4	2095.1	1993.9	1904.6
37.5°	2880.7	2880.7	2839.1	2785.5	2714.1	2624.8	2517.7	2422.4	2321.2	2208.2	2089.1
35°	3428.3	3428.3	3362.8	3273.6	3160.5	3011.7	2851.0	2714.1	2559.3	2422.4	2291.5
32.5°	4237.8	4237.8	4124.7	3993.7	3803.3	3565.2	3333.1	3112.9	2880.7	2684.3	2493.9
30°	5511.5	5511.5	5321.0	5082.9	4761.5	4350.9	4005.6	3648.5	3309.3	3023.6	2761.7
27.5°	7630.4	7541.1	7279.2	6844.7	6249.5	5511.5	4981.8	4380.6	3904.5	3440.2	3100.9
25°	11201.5	11034.9	10540.8	9725.4	8624.3	7404.2	6440.0	5416.2	4690.1	4029.4	3499.7
22.5°	17004.6	16701.1	15796.4	14320.3	12326.4	10374.2	8594.6	7017.3	5719.8	4797.2	4029.4
20°	25837.3	25307.6	23748.2	21224.5	17820.0	14802.4	11630.0	9290.9	7213.7	5719.8	4690.1
17.5°	39110.1	38193.5	35509.1	31182.1	25837.3	20921.0	16088.0	12237.1	9290.9	7017.3	5416.2
15°	58965.7	57358.6	52668.5	45210.8	36646.0	28848.9	21986.4	16088.0	11630.0	8594.6	6440.0
12.5°	92302.3	89052.6	79660.5	65012.8	51359.1	38544.6	28848.9	20921.0	14802.4	10374.2	7404.2
10°	147381.4	140667.6	121627.4	92808.3	70887.3	51359.1	36646.0	25837.3	17820.0	12326.4	8624.3
7.5°	236660.2	222250.6	182878.6	134352.6	92808.3	65012.8	45210.8	31182.1	21224.5	14320.3	9725.4
5°	359799.4	330801.6	258009.7	182878.6	121627.4	79660.5	52668.5	35509.1	23748.2	15796.4	10540.8
2.5°	480528.1	430549.8	330801.6	222250.6	140667.6	89052.6	57358.6	38193.5	25307.6	16701.1	11034.9
0°	532363.3	480528.1	359799.4	236660.2	147381.4	92302.3	58965.7	39110.1	25837.3	17004.6	11201.5



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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°	41.7	41.7	41.7	41.7	35.7	35.7	35.7	35.7	29.8	29.8	29.8
85°	95.2	89.3	89.3	83.3	83.3	77.4	77.4	71.4	71.4	65.5	59.5
82.5°	154.7	148.8	142.8	136.9	136.9	130.9	125.0	113.1	107.1	101.2	95.2
80°	232.1	220.2	214.3	202.4	196.4	184.5	172.6	166.7	154.7	148.8	136.9
77.5°	315.5	303.5	297.6	279.7	267.8	255.9	244.0	226.2	214.3	196.4	178.6
75°	410.7	398.8	380.9	363.1	351.2	333.3	315.5	297.6	273.8	255.9	238.1
72.5°	517.8	500.0	482.1	458.3	434.5	416.6	386.9	363.1	345.2	321.4	297.6
70°	625.0	607.1	583.3	559.5	529.7	505.9	476.2	446.4	416.6	386.9	357.1
67.5°	732.1	708.3	684.5	654.7	625.0	595.2	565.4	529.7	494.0	458.3	422.6
65°	833.3	809.5	779.7	749.9	720.2	684.5	648.8	613.0	571.4	529.7	494.0
62.5°	934.5	904.7	874.9	845.2	809.5	773.7	738.0	690.4	648.8	607.1	559.5
60°	1029.7	999.9	970.2	934.5	898.7	857.1	815.4	773.7	726.1	678.5	630.9
57.5°	1119.0	1089.2	1059.4	1017.8	982.1	940.4	892.8	851.1	797.6	749.9	696.4
55°	1202.3	1172.5	1136.8	1101.1	1065.4	1017.8	970.2	922.5	869.0	815.4	755.9
52.5°	1285.6	1249.9	1214.2	1178.5	1136.8	1095.2	1047.5	994.0	940.4	880.9	821.4
50°	1380.8	1339.2	1291.6	1249.9	1202.3	1160.6	1113.0	1059.4	1005.9	940.4	880.9
47.5°	1470.1	1428.5	1380.8	1327.3	1279.7	1226.1	1172.5	1124.9	1065.4	1005.9	940.4
45°	1571.3	1511.8	1464.2	1410.6	1351.1	1291.6	1238.0	1178.5	1124.9	1059.4	994.0
42.5°	1678.4	1613.0	1547.5	1482.0	1428.5	1363.0	1297.5	1238.0	1172.5	1113.0	1047.5
40°	1803.4	1726.1	1642.7	1571.3	1499.9	1434.4	1363.0	1291.6	1226.1	1160.6	1095.2
37.5°	1964.1	1857.0	1749.9	1660.6	1577.3	1499.9	1428.5	1351.1	1279.7	1202.3	1136.8
35°	2154.6	2005.8	1880.8	1755.8	1660.6	1571.3	1482.0	1410.6	1327.3	1249.9	1178.5
32.5°	2345.1	2184.4	2023.7	1880.8	1749.9	1642.7	1547.5	1464.2	1380.8	1291.6	1214.2
30°	2541.5	2362.9	2184.4	2005.8	1857.0	1726.1	1613.0	1511.8	1428.5	1339.2	1249.9
27.5°	2791.4	2541.5	2345.1	2154.6	1964.1	1803.4	1678.4	1571.3	1470.1	1380.8	1285.6
25°	3100.9	2761.7	2493.9	2291.5	2089.1	1904.6	1743.9	1624.9	1511.8	1422.5	1321.3
22.5°	3440.2	3023.6	2684.3	2422.4	2208.2	1993.9	1815.3	1678.4	1559.4	1452.3	1357.0
20°	3904.5	3309.3	2880.7	2559.3	2321.2	2095.1	1892.7	1726.1	1601.1	1488.0	1386.8
17.5°	4380.6	3648.5	3112.9	2714.1	2422.4	2184.4	1964.1	1779.6	1636.8	1517.7	1416.6
15°	4981.8	4005.6	3333.1	2851.0	2517.7	2267.7	2029.6	1827.2	1672.5	1547.5	1434.4
12.5°	5511.5	4350.9	3565.2	3011.7	2624.8	2339.1	2095.1	1874.9	1708.2	1571.3	1458.2
10°	6249.5	4761.5	3803.3	3160.5	2714.1	2404.6	2148.6	1916.5	1732.0	1595.1	1470.1
7.5°	6844.7	5082.9	3993.7	3273.6	2785.5	2452.2	2190.3	1946.3	1755.8	1607.0	1482.0
5°	7279.2	5321.0	4124.7	3362.8	2839.1	2481.9	2220.1	1970.1	1767.7	1618.9	1493.9
2.5°	7541.1	5511.5	4237.8	3428.3	2880.7	2511.7	2243.9	1987.9	1779.6	1630.8	1499.9
0°	7630.4	5511.5	4237.8	3428.3	2880.7	2511.7	2243.9	1987.9	1779.6	1630.8	1499.9



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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°	29.8	23.8	23.8	23.8	17.9	17.9	17.9	11.9	11.9	11.9	6.0
85°	53.6	53.6	47.6	41.7	41.7	35.7	29.8	29.8	23.8	17.9	17.9
82.5°	89.3	83.3	77.4	71.4	65.5	53.6	47.6	41.7	35.7	29.8	23.8
80°	125.0	119.0	107.1	95.2	89.3	77.4	71.4	59.5	47.6	41.7	35.7
77.5°	166.7	154.7	142.8	130.9	113.1	101.2	89.3	77.4	65.5	53.6	41.7
75°	220.2	196.4	178.6	160.7	142.8	125.0	107.1	95.2	77.4	65.5	47.6
72.5°	273.8	250.0	220.2	196.4	172.6	154.7	130.9	113.1	95.2	77.4	59.5
70°	327.4	297.6	267.8	238.1	208.3	178.6	154.7	130.9	107.1	89.3	71.4
67.5°	380.9	351.2	315.5	279.7	250.0	214.3	178.6	154.7	125.0	101.2	77.4
65°	446.4	404.7	363.1	327.4	285.7	250.0	208.3	172.6	142.8	113.1	89.3
62.5°	511.9	464.2	416.6	369.0	327.4	279.7	238.1	196.4	160.7	130.9	95.2
60°	577.3	523.8	470.2	416.6	363.1	315.5	267.8	220.2	178.6	142.8	107.1
57.5°	642.8	583.3	523.8	464.2	404.7	351.2	297.6	250.0	196.4	154.7	119.0
55°	702.3	642.8	577.3	511.9	446.4	380.9	327.4	273.8	220.2	166.7	125.0
52.5°	755.9	696.4	630.9	559.5	494.0	422.6	357.1	297.6	238.1	178.6	136.9
50°	815.4	749.9	678.5	607.1	529.7	458.3	386.9	321.4	255.9	196.4	148.8
47.5°	869.0	797.6	726.1	648.8	571.4	494.0	416.6	345.2	273.8	214.3	154.7
45°	922.5	851.1	773.7	690.4	613.0	529.7	446.4	363.1	297.6	226.2	166.7
42.5°	970.2	892.8	815.4	738.0	648.8	565.4	476.2	386.9	315.5	244.0	172.6
40°	1017.8	940.4	857.1	773.7	684.5	595.2	505.9	416.6	333.3	255.9	184.5
37.5°	1065.4	982.1	898.7	809.5	720.2	625.0	529.7	434.5	351.2	267.8	196.4
35°	1101.1	1017.8	934.5	845.2	749.9	654.7	559.5	458.3	363.1	279.7	202.4
32.5°	1136.8	1059.4	970.2	874.9	779.7	684.5	583.3	482.1	380.9	297.6	214.3
30°	1172.5	1089.2	999.9	904.7	809.5	708.3	607.1	500.0	398.8	303.5	220.2
27.5°	1202.3	1119.0	1029.7	934.5	833.3	732.1	625.0	517.8	410.7	315.5	232.1
25°	1232.0	1148.7	1059.4	958.3	857.1	749.9	642.8	535.7	428.5	327.4	238.1
22.5°	1261.8	1166.6	1083.2	982.1	880.9	773.7	660.7	547.6	440.4	333.3	244.0
20°	1285.6	1190.4	1101.1	999.9	898.7	791.6	678.5	565.4	452.3	345.2	250.0
17.5°	1309.4	1214.2	1119.0	1023.7	916.6	803.5	690.4	577.3	458.3	351.2	255.9
15°	1333.2	1232.0	1136.8	1035.6	928.5	821.4	702.3	589.2	470.2	357.1	261.9
12.5°	1351.1	1244.0	1148.7	1053.5	940.4	833.3	714.2	595.2	476.2	363.1	261.9
10°	1363.0	1255.9	1160.6	1065.4	952.3	839.2	720.2	607.1	482.1	369.0	267.8
7.5°	1374.9	1267.8	1166.6	1071.3	958.3	845.2	732.1	613.0	488.1	369.0	273.8
5°	1386.8	1273.7	1172.5	1077.3	964.2	857.1	738.0	619.0	494.0	375.0	273.8
2.5°	1392.7	1279.7	1178.5	1083.2	970.2	857.1	738.0	619.0	494.0	375.0	273.8
0°	1392.7	1279.7	1178.5	1083.2	970.2	857.1	738.0	619.0	494.0	375.0	273.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.0	6.0	0.0	0.0
85°	11.9	6.0	6.0	0.0
82.5°	17.9	11.9	6.0	0.0
80°	23.8	17.9	6.0	0.0
77.5°	29.8	17.9	11.9	0.0
75°	35.7	23.8	11.9	0.0
72.5°	41.7	29.8	11.9	0.0
70°	47.6	29.8	17.9	0.0
67.5°	53.6	35.7	17.9	0.0
65°	65.5	41.7	17.9	0.0
62.5°	71.4	41.7	23.8	0.0
60°	77.4	47.6	23.8	0.0
57.5°	83.3	53.6	23.8	0.0
55°	89.3	53.6	29.8	0.0
52.5°	95.2	59.5	29.8	0.0
50°	101.2	65.5	29.8	0.0
47.5°	107.1	71.4	29.8	0.0
45°	113.1	71.4	35.7	0.0
42.5°	125.0	77.4	35.7	0.0
40°	130.9	77.4	35.7	0.0
37.5°	136.9	83.3	35.7	0.0
35°	136.9	83.3	41.7	0.0
32.5°	142.8	89.3	41.7	0.0
30°	148.8	89.3	41.7	0.0
27.5°	154.7	95.2	41.7	0.0
25°	160.7	95.2	41.7	0.0
22.5°	160.7	95.2	41.7	0.0
20°	166.7	101.2	47.6	0.0
17.5°	166.7	101.2	47.6	0.0
15°	172.6	101.2	47.6	0.0
12.5°	172.6	107.1	47.6	0.0
10°	172.6	107.1	47.6	0.0
7.5°	178.6	107.1	47.6	0.0
5°	178.6	107.1	47.6	0.0
2.5°	178.6	107.1	47.6	0.0
0°	178.6	107.1	47.6	0.0

(END OF REPORT)