

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: P628244

Luminaire Tested: **IFLD-S-SA3C-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628244
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

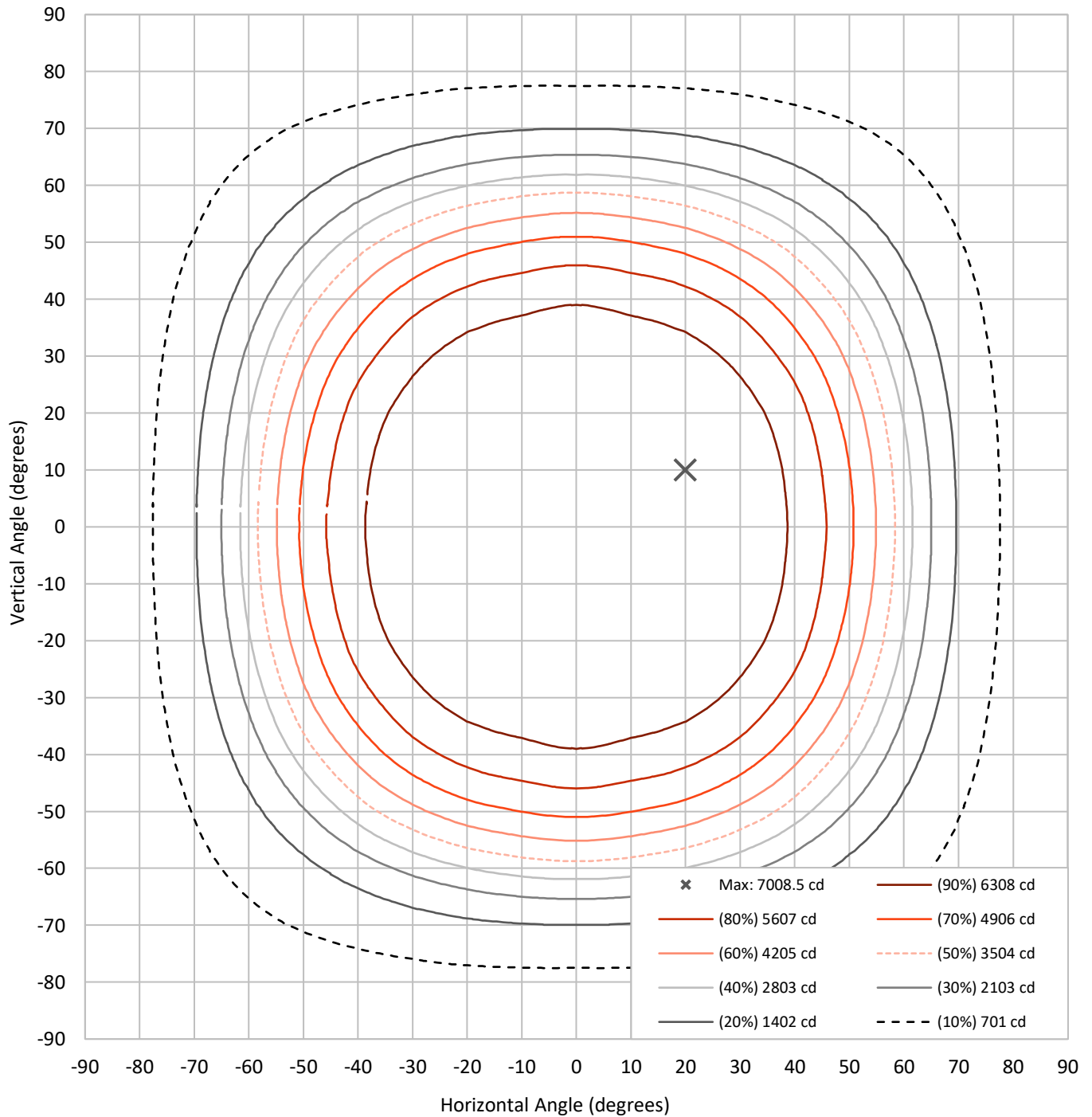
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21501.2 lumens	Max Intensity:	7008.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	133.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13193.6 lumens	Field Lumens:	15816.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 160.8
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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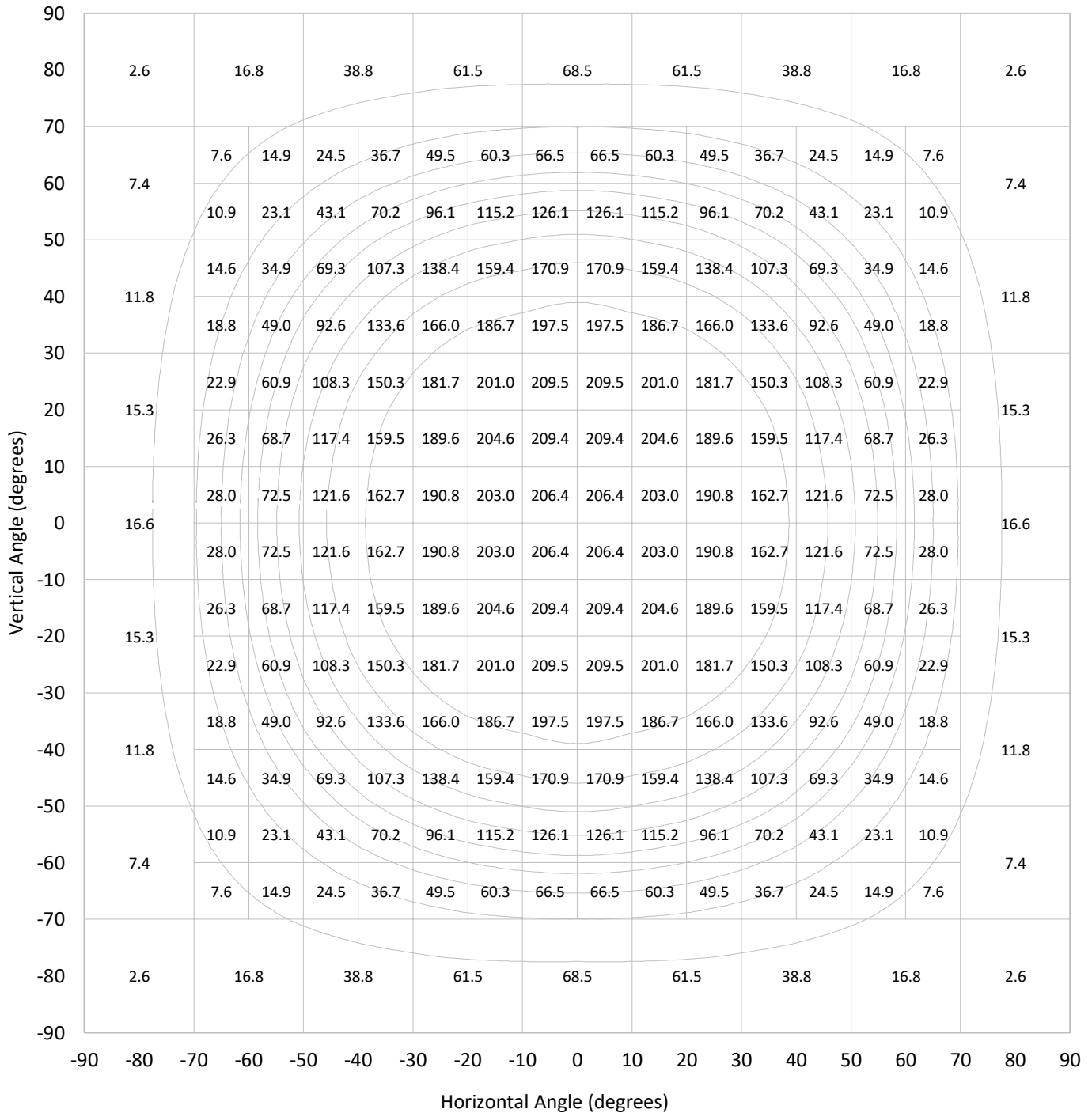
Iso-Candela Plot





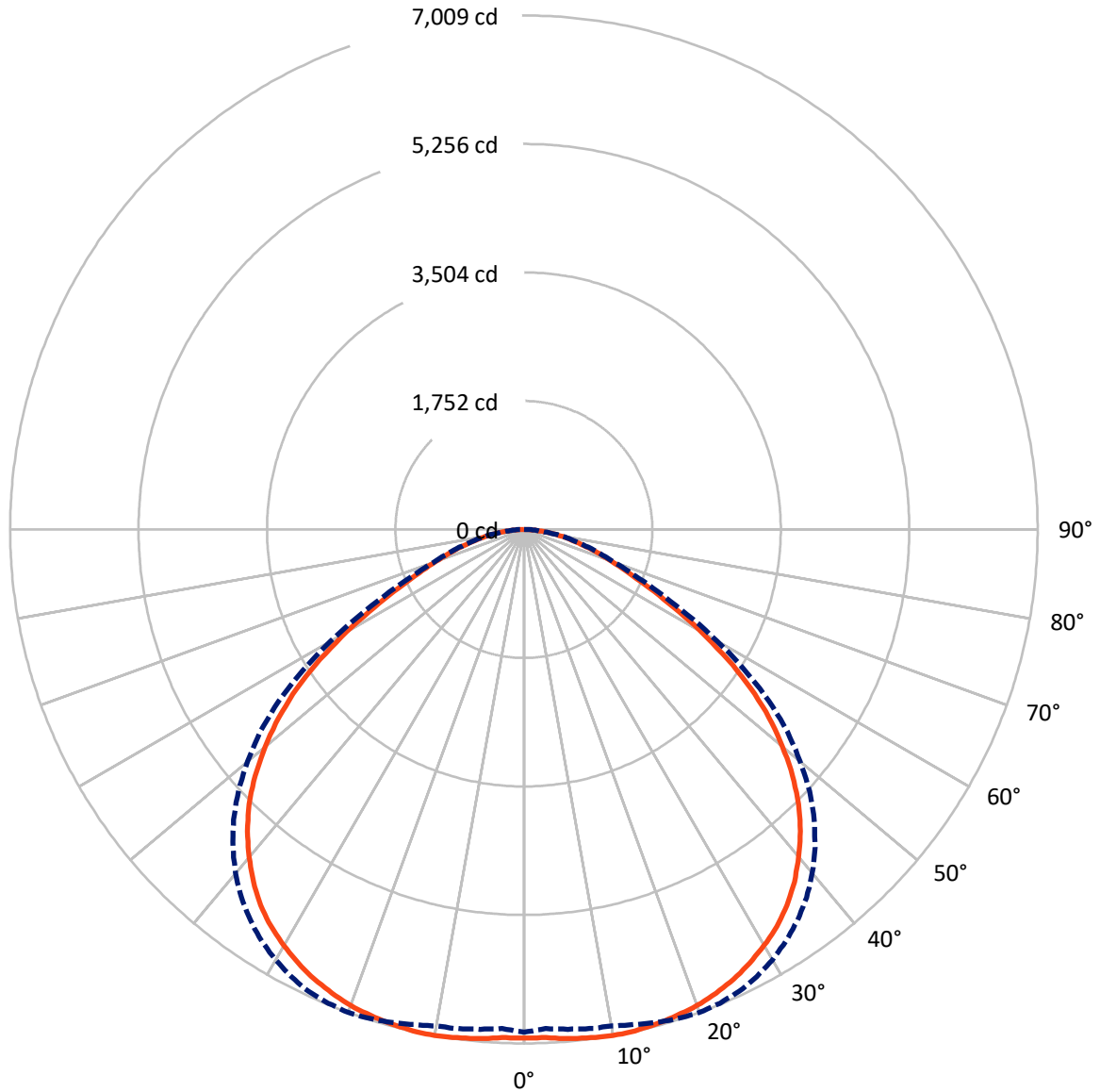
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Lumen Table



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Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 13193.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15816.9
 Efficiency: 73.6%

Spill:
 Lumens: 5684.4
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	56.6	61.1	63.3	65.6	67.9	70.1	72.4	70.1	67.9	67.9	65.6
85°	151.6	156.1	158.4	174.2	190.0	199.1	210.4	208.1	208.1	205.9	203.6
82.5°	303.1	316.7	328.0	343.9	352.9	366.5	375.5	368.8	364.2	355.2	348.4
80°	538.4	542.9	545.2	547.5	536.2	533.9	529.4	522.6	513.5	502.2	490.9
77.5°	685.5	690.0	694.5	690.0	687.7	685.5	678.7	671.9	662.8	653.8	640.2
75°	907.2	907.2	907.2	900.4	895.9	889.1	877.8	866.5	850.6	832.5	812.2
72.5°	1142.4	1140.2	1137.9	1124.4	1113.0	1099.5	1083.6	1070.1	1052.0	1031.6	1004.5
70°	1389.0	1393.6	1395.8	1377.7	1364.2	1346.1	1325.7	1300.8	1273.7	1244.3	1205.8
67.5°	1728.4	1723.9	1719.3	1694.4	1676.3	1651.5	1622.1	1585.9	1545.1	1499.9	1445.6
65°	2149.2	2155.9	2142.4	2117.5	2083.6	2042.8	1997.6	1945.6	1884.5	1816.6	1739.7
62.5°	2658.2	2669.5	2653.7	2622.0	2579.0	2524.7	2461.4	2386.7	2303.0	2208.0	2113.0
60°	3237.3	3235.1	3205.6	3162.7	3106.1	3038.2	2968.1	2886.7	2791.6	2680.8	2565.4
57.5°	3769.0	3764.4	3728.2	3685.2	3628.7	3556.3	3481.6	3395.7	3296.1	3178.5	3045.0
55°	4246.3	4241.8	4205.6	4160.3	4101.5	4029.1	3961.2	3879.8	3782.5	3658.1	3515.6
52.5°	4669.3	4671.6	4639.9	4590.2	4526.8	4456.7	4391.1	4309.6	4216.9	4092.5	3954.5
50°	5058.4	5056.2	5022.3	4977.0	4918.2	4850.3	4784.7	4703.3	4606.0	4486.1	4352.6
47.5°	5420.4	5415.9	5377.4	5327.7	5266.6	5207.8	5146.7	5074.3	4972.5	4852.6	4719.1
45°	5723.6	5714.5	5676.1	5628.5	5569.7	5517.7	5463.4	5409.1	5300.5	5189.7	5063.0
42.5°	5983.7	5981.5	5943.0	5895.5	5836.7	5791.4	5741.7	5673.8	5583.3	5481.5	5357.1
40°	6232.6	6214.5	6176.0	6130.8	6076.5	6038.0	5988.2	5920.4	5832.1	5732.6	5612.7
37.5°	6418.1	6420.3	6379.6	6329.8	6282.3	6246.1	6200.9	6137.6	6060.6	5963.4	5843.5
35°	6594.5	6583.2	6549.3	6506.3	6463.3	6422.6	6375.1	6320.8	6257.5	6167.0	6053.9
32.5°	6709.9	6725.7	6685.0	6639.8	6614.9	6583.2	6533.5	6476.9	6420.3	6329.8	6228.0
30°	6836.6	6823.0	6791.4	6752.9	6734.8	6714.4	6671.5	6617.2	6551.6	6470.1	6375.1
27.5°	6924.8	6918.0	6879.6	6843.4	6834.3	6816.2	6782.3	6734.8	6669.2	6590.0	6501.8
25°	6963.3	6967.8	6931.6	6911.3	6911.3	6899.9	6872.8	6832.1	6766.5	6694.1	6608.1
22.5°	6981.4	6976.9	6952.0	6947.5	6958.8	6949.7	6938.4	6902.2	6843.4	6784.6	6712.2
20°	6992.7	6961.0	6938.4	6956.5	6970.1	6967.8	6958.8	6936.1	6909.0	6859.2	6795.9
17.5°	6967.8	6947.5	6920.3	6947.5	6976.9	6979.1	6970.1	6956.5	6949.7	6918.0	6861.5
15°	6906.7	6890.9	6895.4	6922.6	6956.5	6967.8	6974.6	6990.4	6981.4	6956.5	6906.7
12.5°	6866.0	6845.6	6866.0	6893.2	6911.3	6918.0	6972.3	7001.7	7001.7	6979.1	6947.5
10°	6854.7	6814.0	6841.1	6866.0	6875.1	6915.8	6961.0	6992.7	7008.5	6990.4	6949.7
7.5°	6832.1	6804.9	6816.2	6827.6	6879.6	6909.0	6933.9	6967.8	6990.4	6988.2	6952.0
5°	6820.8	6786.8	6791.4	6838.9	6875.1	6895.4	6904.5	6933.9	6967.8	6974.6	6947.5
2.5°	6791.4	6775.5	6809.5	6814.0	6841.1	6857.0	6866.0	6893.2	6936.1	6952.0	6940.7
0°	6775.5	6752.9	6730.3	6748.4	6793.6	6827.6	6841.1	6881.8	6931.6	6947.5	6922.6



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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°	63.3	61.1	58.8	56.6	58.8	58.8	58.8	56.6	58.8	56.6	56.6
85°	196.8	187.8	181.0	171.9	162.9	156.1	147.0	138.0	135.7	133.5	128.9
82.5°	339.3	328.0	316.7	303.1	289.6	273.7	257.9	239.8	235.3	230.8	224.0
80°	477.3	461.5	445.7	429.8	416.3	400.4	382.3	362.0	348.4	337.1	323.5
77.5°	622.1	599.5	576.9	549.7	533.9	518.1	500.0	479.6	459.2	441.1	420.8
75°	787.3	762.4	739.8	712.6	683.2	653.8	624.4	597.2	567.8	540.7	513.5
72.5°	970.5	934.3	898.1	864.2	828.0	791.8	753.3	717.1	680.9	644.7	606.3
70°	1162.8	1117.6	1072.3	1027.1	979.6	932.1	886.8	841.6	796.3	748.8	705.8
67.5°	1389.0	1337.0	1278.2	1214.8	1144.7	1083.6	1024.8	970.5	916.2	861.9	807.6
65°	1671.8	1599.4	1520.2	1434.3	1352.8	1271.4	1185.4	1104.0	1040.6	977.3	916.2
62.5°	2020.2	1918.4	1807.6	1696.7	1597.2	1490.8	1391.3	1285.0	1185.4	1094.9	1020.3
60°	2436.5	2298.5	2162.7	2020.2	1882.2	1737.4	1610.7	1479.5	1355.1	1244.3	1135.7
57.5°	2895.7	2735.1	2572.2	2398.0	2210.2	2040.6	1868.6	1696.7	1549.7	1402.6	1280.4
55°	3361.7	3192.1	3008.8	2812.0	2606.1	2389.0	2155.9	1963.7	1762.3	1590.4	1432.0
52.5°	3805.1	3628.7	3438.7	3257.7	3011.1	2762.2	2506.6	2253.2	2018.0	1798.5	1606.2
50°	4201.0	4029.1	3845.9	3635.5	3407.0	3142.3	2857.3	2572.2	2293.9	2036.0	1796.2
47.5°	4563.0	4395.6	4212.4	4002.0	3793.8	3499.7	3212.4	2898.0	2588.0	2291.7	2011.2
45°	4902.4	4732.7	4542.7	4341.3	4101.5	3839.1	3542.7	3226.0	2893.5	2560.9	2237.4
42.5°	5210.0	5040.4	4848.1	4639.9	4402.4	4142.2	3854.9	3535.9	3201.1	2839.2	2484.0
40°	5479.2	5314.1	5128.6	4911.4	4689.7	4416.0	4133.2	3830.0	3483.9	3119.7	2728.3
37.5°	5714.5	5560.7	5377.4	5162.5	4927.2	4682.9	4391.1	4087.9	3775.7	3379.8	2979.4
35°	5922.6	5780.1	5592.3	5388.7	5158.0	4900.1	4626.4	4330.0	3992.9	3621.9	3232.8
32.5°	6103.6	5958.8	5786.9	5583.3	5359.3	5117.3	4836.7	4538.1	4219.1	3841.3	3418.3
30°	6257.5	6117.2	5954.3	5762.0	5547.1	5307.3	5033.6	4732.7	4406.9	4031.4	3612.9
27.5°	6390.9	6257.5	6099.1	5920.4	5714.5	5483.8	5207.8	4904.6	4572.1	4210.1	3791.6
25°	6506.3	6377.4	6230.3	6060.6	5857.0	5630.8	5370.6	5053.9	4721.4	4357.1	3943.1
22.5°	6610.4	6485.9	6338.9	6173.8	5988.2	5762.0	5499.6	5185.1	4848.1	4488.4	4081.1
20°	6703.1	6587.7	6443.0	6273.3	6087.8	5859.3	5599.1	5300.5	4961.2	4608.3	4205.6
17.5°	6777.8	6676.0	6531.2	6352.5	6167.0	5945.3	5691.9	5418.2	5058.4	4710.1	4309.6
15°	6829.8	6730.3	6599.1	6418.1	6237.1	6017.7	5764.3	5481.5	5146.7	4791.5	4395.6
12.5°	6866.0	6759.7	6637.5	6470.1	6289.1	6071.9	5825.4	5547.1	5221.3	4863.9	4470.3
10°	6875.1	6777.8	6655.6	6506.3	6329.8	6119.5	5877.4	5601.4	5282.4	4920.5	4531.3
7.5°	6879.6	6786.8	6676.0	6533.5	6359.3	6155.7	5915.9	5644.4	5327.7	4968.0	4576.6
5°	6877.3	6789.1	6689.6	6551.6	6377.4	6176.0	5940.7	5673.8	5359.3	4999.6	4610.5
2.5°	6870.5	6791.4	6698.6	6565.1	6397.7	6198.6	5965.6	5707.7	5393.3	5026.8	4637.7
0°	6888.6	6820.8	6703.1	6560.6	6402.2	6198.6	5963.4	5712.2	5397.8	5024.5	4635.4



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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°	56.6	54.3	54.3	52.0	49.8	47.5	43.0	40.7	36.2	29.4	22.6
85°	122.2	115.4	108.6	104.1	99.5	95.0	88.2	81.4	72.4	58.8	45.2
82.5°	214.9	201.3	187.8	171.9	158.4	144.8	133.5	122.2	108.6	88.2	67.9
80°	307.7	287.3	266.9	244.3	224.0	201.3	181.0	162.9	144.8	117.6	90.5
77.5°	400.4	373.3	343.9	316.7	287.3	257.9	228.5	203.6	176.5	144.8	113.1
75°	486.4	454.7	427.6	389.1	352.9	314.5	276.0	242.1	208.1	169.7	135.7
72.5°	572.4	531.6	493.2	457.0	416.3	368.8	325.8	282.8	239.8	194.6	153.8
70°	658.3	608.6	561.0	518.1	472.8	425.3	373.3	323.5	271.5	217.2	169.7
67.5°	746.6	690.0	635.7	581.4	529.4	475.1	420.8	364.2	303.1	239.8	187.8
65°	843.8	773.7	708.1	647.0	585.9	527.1	466.0	404.9	337.1	264.7	203.6
62.5°	941.1	864.2	787.3	710.4	642.5	576.9	511.3	443.4	368.8	291.8	219.4
60°	1045.2	956.9	868.7	782.7	699.0	626.7	554.3	481.9	402.7	316.7	235.3
57.5°	1160.5	1054.2	954.7	857.4	762.4	676.4	597.2	520.3	432.1	341.6	253.4
55°	1291.8	1160.5	1042.9	934.3	830.3	726.2	640.2	561.0	466.0	366.5	273.7
52.5°	1429.8	1278.2	1135.7	1013.5	902.6	785.0	680.9	592.7	500.0	391.4	291.8
50°	1590.4	1398.1	1239.7	1090.4	966.0	843.8	723.9	628.9	533.9	420.8	309.9
47.5°	1755.5	1542.9	1343.8	1180.9	1033.9	900.4	773.7	660.6	565.6	447.9	328.0
45°	1947.8	1680.9	1461.4	1269.1	1099.5	959.2	823.5	694.5	592.7	475.1	346.1
42.5°	2133.3	1843.8	1583.6	1366.4	1174.1	1015.8	868.7	730.7	619.9	502.2	362.0
40°	2352.8	2006.6	1701.2	1459.2	1248.8	1070.1	914.0	769.2	644.7	527.1	377.8
37.5°	2563.2	2171.8	1843.8	1561.0	1321.2	1124.4	959.2	805.4	667.4	552.0	398.2
35°	2771.3	2355.0	1979.5	1656.0	1395.8	1185.4	1004.5	839.3	690.0	572.4	416.3
32.5°	2970.4	2527.0	2117.5	1762.3	1477.3	1242.0	1045.2	871.0	712.6	590.5	434.4
30°	3155.9	2689.8	2253.2	1870.9	1551.9	1294.0	1083.6	902.6	739.8	606.3	452.5
27.5°	3325.5	2848.2	2389.0	1972.7	1622.1	1341.5	1124.4	932.1	762.4	622.1	468.3
25°	3479.4	2990.7	2513.4	2065.5	1685.4	1393.6	1162.8	961.5	782.7	635.7	481.9
22.5°	3624.2	3121.9	2626.5	2158.2	1762.3	1445.6	1199.0	988.6	803.1	649.3	495.4
20°	3750.9	3241.8	2735.1	2251.0	1830.2	1493.1	1230.7	1013.5	821.2	658.3	509.0
17.5°	3852.7	3348.2	2832.4	2332.4	1889.0	1533.8	1257.8	1036.1	837.0	669.6	518.1
15°	3943.1	3438.7	2913.8	2402.5	1941.0	1567.8	1282.7	1054.2	850.6	676.4	529.4
12.5°	4020.1	3515.6	2983.9	2463.6	1986.3	1597.2	1303.1	1067.8	861.9	683.2	536.2
10°	4083.4	3576.7	3042.8	2511.1	2022.5	1619.8	1318.9	1081.4	871.0	690.0	542.9
7.5°	4130.9	3621.9	3085.7	2551.8	2051.9	1635.6	1332.5	1090.4	880.0	694.5	554.3
5°	4167.1	3660.4	3119.7	2579.0	2074.5	1658.2	1348.3	1101.7	889.1	699.0	554.3
2.5°	4194.3	3692.0	3146.8	2601.6	2092.6	1653.7	1348.3	1099.5	889.1	699.0	552.0
0°	4189.7	3694.3	3144.6	2601.6	2092.6	1649.2	1348.3	1097.2	889.1	699.0	552.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.8	11.3	4.5	0.0
85°	33.9	22.6	11.3	0.0
82.5°	49.8	31.7	15.8	0.0
80°	65.6	43.0	20.4	0.0
77.5°	83.7	54.3	27.1	0.0
75°	99.5	63.3	31.7	0.0
72.5°	115.4	74.7	36.2	0.0
70°	128.9	83.7	40.7	0.0
67.5°	142.5	95.0	47.5	0.0
65°	153.8	104.1	52.0	0.0
62.5°	162.9	115.4	56.6	0.0
60°	174.2	124.4	61.1	0.0
57.5°	183.2	131.2	65.6	0.0
55°	192.3	135.7	70.1	0.0
52.5°	201.3	142.5	74.7	0.0
50°	210.4	149.3	79.2	0.0
47.5°	219.4	153.8	81.4	0.0
45°	233.0	160.6	86.0	0.0
42.5°	244.3	165.1	90.5	0.0
40°	255.6	169.7	92.8	0.0
37.5°	266.9	174.2	97.3	0.0
35°	278.3	178.7	99.5	0.0
32.5°	287.3	183.2	101.8	0.0
30°	296.4	187.8	104.1	0.0
27.5°	305.4	190.0	106.3	0.0
25°	312.2	194.6	108.6	0.0
22.5°	319.0	196.8	110.9	0.0
20°	323.5	199.1	113.1	0.0
17.5°	330.3	201.3	115.4	0.0
15°	332.6	203.6	119.9	0.0
12.5°	337.1	205.9	119.9	0.0
10°	339.3	208.1	119.9	0.0
7.5°	343.9	208.1	119.9	0.0
5°	341.6	208.1	119.9	0.0
2.5°	341.6	208.1	119.9	0.0
0°	339.3	208.1	119.9	0.0

(END OF REPORT)