

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: P628425

Luminaire Tested: **IFLD-S-SA6E-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34476.4 lumens	Max Intensity:	11237.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	74.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

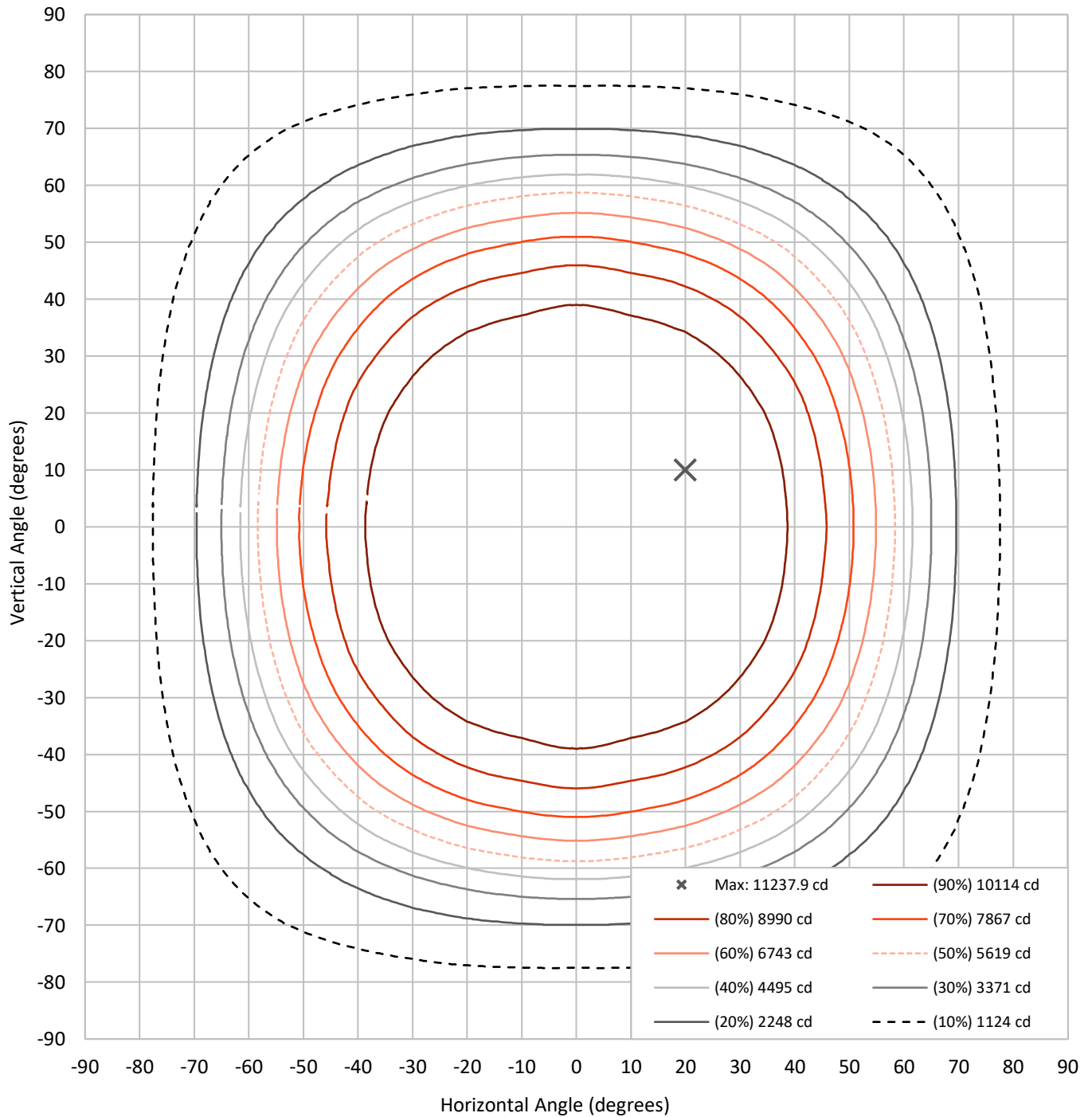
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21155.4 lumens	Field Lumens:	25361.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2
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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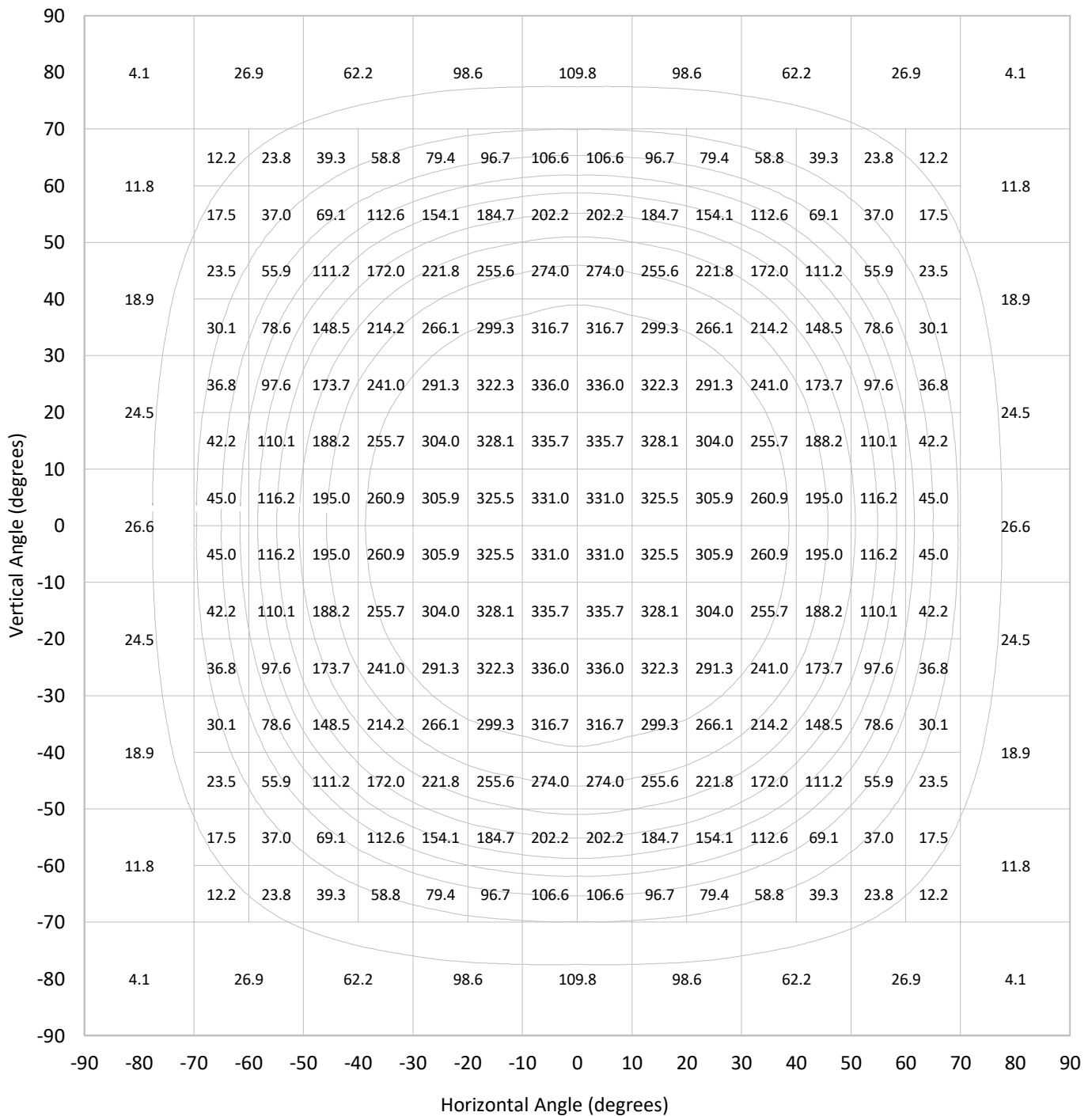
Iso-Candela Plot





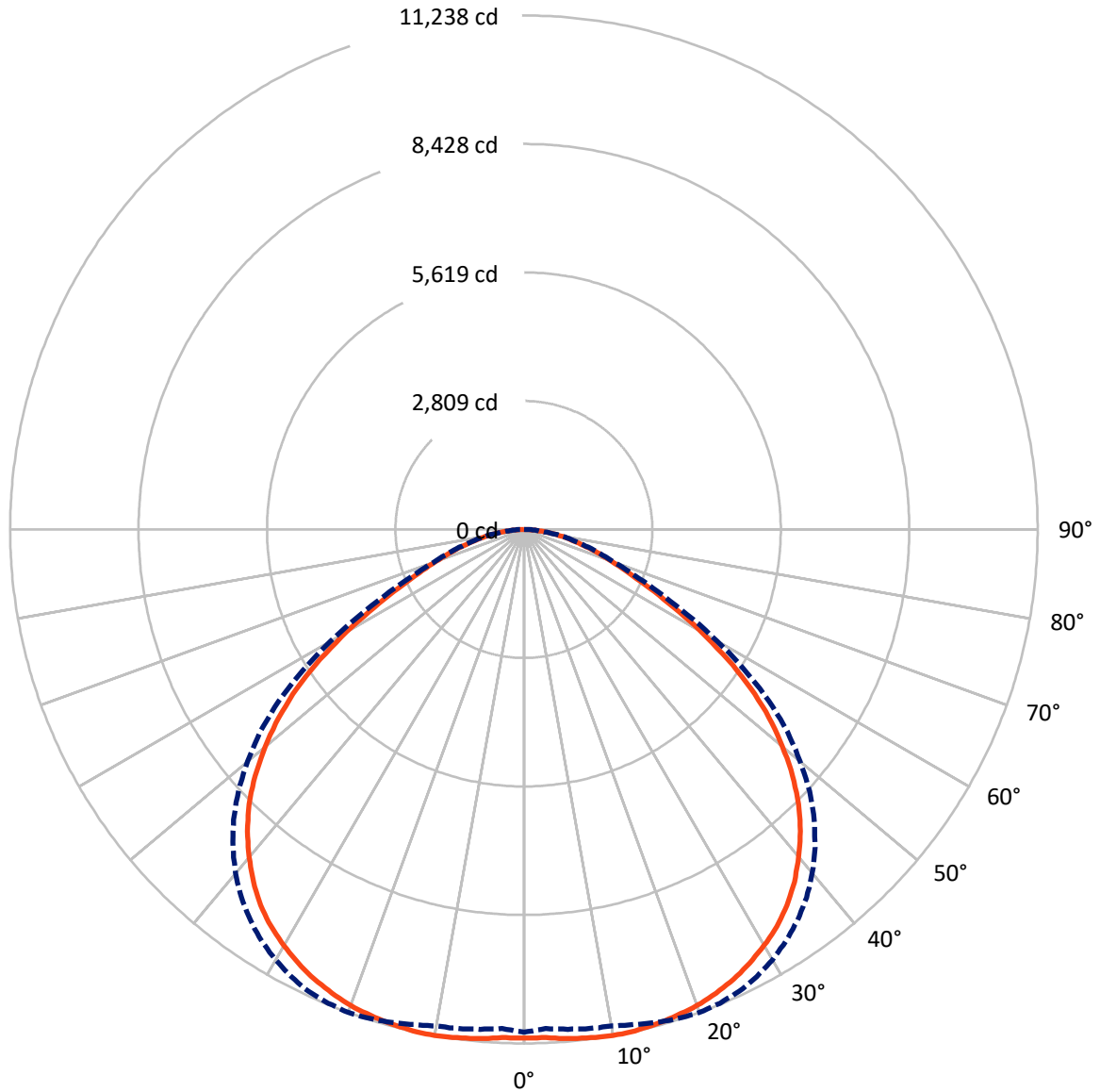
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Lumen Table



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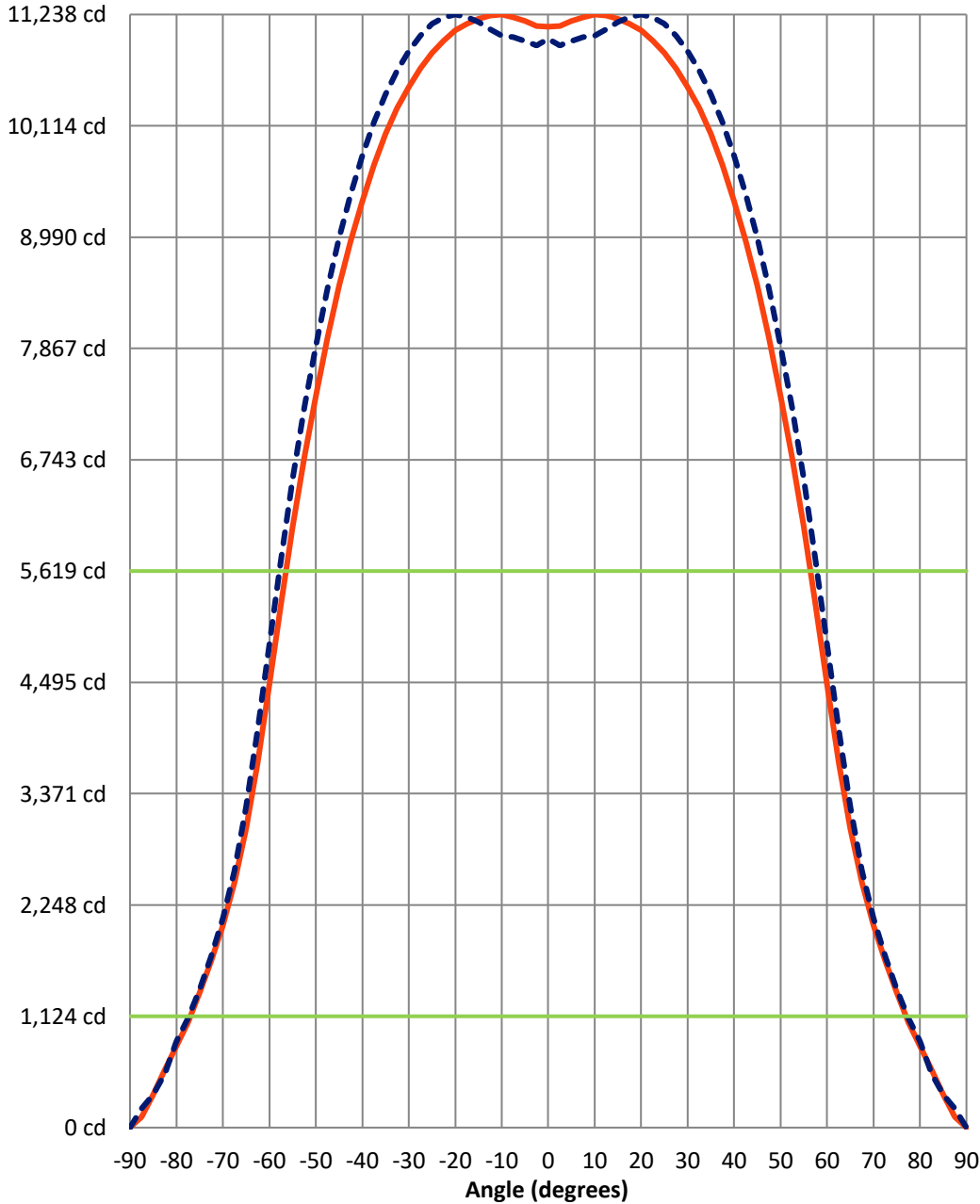
Luminous Intensity Polar Plot



— 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: 21155.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25361.8
 Efficiency: 73.6%

Spill:
 Lumens: 9114.6
 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°	90.7	97.9	101.6	105.2	108.8	112.5	116.1	112.5	108.8	108.8	105.2
85°	243.0	250.3	253.9	279.3	304.7	319.2	337.4	333.7	333.7	330.1	326.5
82.5°	486.1	507.8	526.0	551.4	565.9	587.7	602.2	591.3	584.0	569.5	558.6
80°	863.3	870.6	874.2	877.8	859.7	856.1	848.8	837.9	823.4	805.3	787.2
77.5°	1099.1	1106.4	1113.6	1106.4	1102.8	1099.1	1088.2	1077.4	1062.9	1048.3	1026.6
75°	1454.6	1454.6	1454.6	1443.7	1436.5	1425.6	1407.5	1389.3	1363.9	1334.9	1302.3
72.5°	1831.9	1828.2	1824.6	1802.9	1784.7	1763.0	1737.6	1715.8	1686.8	1654.1	1610.6
70°	2227.3	2234.5	2238.2	2209.1	2187.4	2158.3	2125.7	2085.8	2042.3	1995.1	1933.4
67.5°	2771.4	2764.1	2756.9	2717.0	2688.0	2648.1	2600.9	2542.9	2477.6	2405.0	2318.0
65°	3446.1	3457.0	3435.2	3395.3	3340.9	3275.6	3203.1	3119.6	3021.7	2912.9	2789.5
62.5°	4262.3	4280.4	4255.0	4204.2	4135.3	4048.3	3946.7	3827.0	3692.8	3540.4	3388.1
60°	5190.9	5187.3	5140.1	5071.2	4980.5	4871.7	4759.2	4628.7	4476.3	4298.6	4113.6
57.5°	6043.4	6036.1	5978.1	5909.2	5818.5	5702.4	5582.7	5444.8	5285.2	5096.6	4882.6
55°	6808.8	6801.5	6743.5	6670.9	6576.6	6460.5	6351.7	6221.1	6065.1	5865.6	5637.1
52.5°	7487.1	7490.7	7440.0	7360.1	7258.6	7146.1	7040.9	6910.3	6761.6	6562.1	6340.8
50°	8111.0	8107.4	8053.0	7980.4	7886.1	7777.3	7672.1	7541.5	7385.5	7193.3	6979.3
47.5°	8691.4	8684.2	8622.5	8542.7	8444.8	8350.5	8252.5	8136.4	7973.2	7780.9	7566.9
45°	9177.5	9163.0	9101.3	9025.2	8930.8	8847.4	8760.4	8673.3	8499.2	8321.4	8118.3
42.5°	9594.7	9591.0	9529.4	9453.2	9358.9	9286.3	9206.5	9097.7	8952.6	8789.4	8589.9
40°	9993.7	9964.7	9903.0	9830.5	9743.4	9681.7	9601.9	9493.1	9351.6	9192.0	8999.8
37.5°	10291.2	10294.8	10229.5	10149.7	10073.5	10015.5	9942.9	9841.3	9718.0	9562.0	9369.8
35°	10574.1	10556.0	10501.5	10432.6	10363.7	10298.4	10222.2	10135.2	10033.6	9888.5	9707.1
32.5°	10759.1	10784.5	10719.2	10646.6	10606.7	10556.0	10476.2	10385.5	10294.8	10149.7	9986.4
30°	10962.2	10940.5	10889.7	10828.0	10799.0	10766.3	10697.4	10610.4	10505.2	10374.6	10222.2
27.5°	11103.7	11092.8	11031.2	10973.1	10958.6	10929.6	10875.2	10799.0	10693.8	10566.8	10425.4
25°	11165.4	11172.6	11114.6	11081.9	11081.9	11063.8	11020.3	10955.0	10849.8	10733.7	10595.9
22.5°	11194.4	11187.1	11147.2	11140.0	11158.1	11143.6	11125.5	11067.4	10973.1	10878.8	10762.7
20°	11212.5	11161.7	11125.5	11154.5	11176.3	11172.6	11158.1	11121.8	11078.3	10998.5	10896.9
17.5°	11172.6	11140.0	11096.4	11140.0	11187.1	11190.8	11176.3	11154.5	11143.6	11092.8	11002.1
15°	11074.7	11049.3	11056.5	11100.1	11154.5	11172.6	11183.5	11208.9	11194.4	11154.5	11074.7
12.5°	11009.4	10976.7	11009.4	11052.9	11081.9	11092.8	11179.9	11227.0	11227.0	11190.8	11140.0
10°	10991.3	10926.0	10969.5	11009.4	11023.9	11089.2	11161.7	11212.5	11237.9	11208.9	11143.6
7.5°	10955.0	10911.4	10929.6	10947.7	11031.2	11078.3	11118.2	11172.6	11208.9	11205.3	11147.2
5°	10936.8	10882.4	10889.7	10965.9	11023.9	11056.5	11071.1	11118.2	11172.6	11183.5	11140.0
2.5°	10889.7	10864.3	10918.7	10926.0	10969.5	10994.9	11009.4	11052.9	11121.8	11147.2	11129.1
0°	10864.3	10828.0	10791.7	10820.8	10893.3	10947.7	10969.5	11034.8	11114.6	11140.0	11100.1



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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°	101.6	97.9	94.3	90.7	94.3	94.3	94.3	90.7	94.3	90.7	90.7
85°	315.6	301.1	290.2	275.7	261.2	250.3	235.8	221.3	217.6	214.0	206.8
82.5°	544.1	526.0	507.8	486.1	464.3	438.9	413.5	384.5	377.3	370.0	359.1
80°	765.4	740.0	714.6	689.2	667.5	642.1	613.0	580.4	558.6	540.5	518.7
77.5°	997.6	961.3	925.0	881.5	856.1	830.7	801.7	769.0	736.4	707.4	674.7
75°	1262.4	1222.5	1186.2	1142.7	1095.5	1048.3	1001.2	957.7	910.5	867.0	823.4
72.5°	1556.2	1498.1	1440.1	1385.7	1327.7	1269.6	1207.9	1149.9	1091.9	1033.8	972.2
70°	1864.5	1792.0	1719.4	1646.9	1570.7	1494.5	1422.0	1349.4	1276.9	1200.7	1131.8
67.5°	2227.3	2143.8	2049.5	1948.0	1835.5	1737.6	1643.2	1556.2	1469.1	1382.1	1295.0
65°	2680.7	2564.6	2437.7	2299.8	2169.2	2038.6	1900.8	1770.2	1668.6	1567.1	1469.1
62.5°	3239.3	3076.1	2898.4	2720.6	2561.0	2390.5	2230.9	2060.4	1900.8	1755.7	1636.0
60°	3906.8	3685.5	3467.9	3239.3	3018.1	2785.9	2582.8	2372.4	2172.9	1995.1	1821.0
57.5°	4643.2	4385.6	4124.4	3845.1	3544.0	3272.0	2996.3	2720.6	2484.8	2249.0	2053.2
55°	5390.4	5118.4	4824.5	4509.0	4178.9	3830.6	3457.0	3148.6	2825.8	2550.1	2296.2
52.5°	6101.4	5818.5	5513.8	5223.6	4828.2	4429.1	4019.2	3613.0	3235.7	2883.8	2575.5
50°	6736.2	6460.5	6166.7	5829.4	5463.0	5038.6	4581.5	4124.4	3678.3	3264.7	2880.2
47.5°	7316.6	7048.2	6754.4	6417.0	6083.3	5611.7	5151.0	4646.8	4149.8	3674.6	3224.8
45°	7860.7	7588.7	7284.0	6961.1	6576.6	6155.8	5680.6	5172.8	4639.5	4106.3	3587.6
42.5°	8354.1	8082.0	7773.7	7440.0	7059.1	6641.9	6181.2	5669.7	5132.9	4552.5	3983.0
40°	8785.7	8520.9	8223.5	7875.3	7519.8	7080.8	6627.4	6141.3	5586.3	5002.3	4374.7
37.5°	9163.0	8916.3	8622.5	8277.9	7900.6	7508.9	7040.9	6554.8	6054.3	5419.4	4777.4
35°	9496.7	9268.2	8967.1	8640.6	8270.6	7857.1	7418.2	6943.0	6402.5	5807.6	5183.7
32.5°	9786.9	9554.8	9279.1	8952.6	8593.5	8205.4	7755.5	7276.7	6765.2	6159.5	5481.1
30°	10033.6	9808.7	9547.5	9239.2	8894.6	8510.1	8071.1	7588.7	7066.3	6464.2	5793.1
27.5°	10247.6	10033.6	9779.7	9493.1	9163.0	8793.0	8350.5	7864.4	7331.1	6750.7	6079.7
25°	10432.6	10225.9	9990.1	9718.0	9391.5	9028.8	8611.6	8103.8	7570.5	6986.5	6322.7
22.5°	10599.5	10400.0	10164.2	9899.4	9601.9	9239.2	8818.4	8314.2	7773.7	7196.9	6544.0
20°	10748.2	10563.2	10331.1	10059.0	9761.5	9395.2	8978.0	8499.2	7955.1	7389.2	6743.5
17.5°	10867.9	10704.7	10472.5	10186.0	9888.5	9533.0	9126.7	8687.8	8111.0	7552.4	6910.3
15°	10951.4	10791.7	10581.3	10291.2	10001.0	9649.1	9242.8	8789.4	8252.5	7683.0	7048.2
12.5°	11009.4	10838.9	10643.0	10374.6	10084.4	9736.1	9340.8	8894.6	8372.2	7799.1	7167.9
10°	11023.9	10867.9	10672.0	10432.6	10149.7	9812.3	9424.2	8981.6	8470.2	7889.8	7265.8
7.5°	11031.2	10882.4	10704.7	10476.2	10196.8	9870.4	9485.9	9050.6	8542.7	7965.9	7338.4
5°	11027.5	10886.1	10726.4	10505.2	10225.9	9903.0	9525.8	9097.7	8593.5	8016.7	7392.8
2.5°	11016.6	10889.7	10741.0	10526.9	10258.5	9939.3	9565.7	9152.1	8647.9	8060.3	7436.3
0°	11045.7	10936.8	10748.2	10519.7	10265.8	9939.3	9562.0	9159.4	8655.2	8056.6	7432.7



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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°	90.7	87.1	87.1	83.4	79.8	76.2	68.9	65.3	58.0	47.2	36.3
85°	195.9	185.0	174.1	166.9	159.6	152.4	141.5	130.6	116.1	94.3	72.5
82.5°	344.6	322.8	301.1	275.7	253.9	232.2	214.0	195.9	174.1	141.5	108.8
80°	493.3	460.7	428.0	391.8	359.1	322.8	290.2	261.2	232.2	188.6	145.1
77.5°	642.1	598.5	551.4	507.8	460.7	413.5	366.4	326.5	282.9	232.2	181.4
75°	779.9	729.1	685.6	623.9	565.9	504.2	442.6	388.1	333.7	272.1	217.6
72.5°	917.8	852.5	790.8	732.8	667.5	591.3	522.4	453.4	384.5	312.0	246.7
70°	1055.6	975.8	899.6	830.7	758.1	682.0	598.5	518.7	435.3	348.2	272.1
67.5°	1197.1	1106.4	1019.3	932.3	848.8	761.8	674.7	584.0	486.1	384.5	301.1
65°	1353.0	1240.6	1135.4	1037.5	939.5	845.2	747.3	649.3	540.5	424.4	326.5
62.5°	1509.0	1385.7	1262.4	1139.0	1030.2	925.0	819.8	711.0	591.3	467.9	351.9
60°	1675.9	1534.4	1393.0	1255.1	1120.9	1004.8	888.7	772.7	645.7	507.8	377.3
57.5°	1860.9	1690.4	1530.8	1374.8	1222.5	1084.6	957.7	834.3	692.8	547.7	406.3
55°	2071.3	1860.9	1672.3	1498.1	1331.3	1164.4	1026.6	899.6	747.3	587.7	438.9
52.5°	2292.6	2049.5	1821.0	1625.1	1447.4	1258.7	1091.9	950.4	801.7	627.6	467.9
50°	2550.1	2241.8	1987.9	1748.4	1548.9	1353.0	1160.8	1008.4	856.1	674.7	497.0
47.5°	2814.9	2473.9	2154.7	1893.5	1657.8	1443.7	1240.6	1059.2	906.9	718.2	526.0
45°	3123.3	2695.2	2343.3	2035.0	1763.0	1538.0	1320.4	1113.6	950.4	761.8	555.0
42.5°	3420.7	2956.4	2539.2	2191.0	1882.7	1628.7	1393.0	1171.7	993.9	805.3	580.4
40°	3772.6	3217.6	2727.9	2339.7	2002.4	1715.8	1465.5	1233.3	1033.8	845.2	605.8
37.5°	4109.9	3482.4	2956.4	2503.0	2118.4	1802.9	1538.0	1291.4	1070.1	885.1	638.4
35°	4443.7	3776.2	3174.0	2655.3	2238.2	1900.8	1610.6	1345.8	1106.4	917.8	667.5
32.5°	4762.9	4051.9	3395.3	2825.8	2368.7	1991.5	1675.9	1396.6	1142.7	946.8	696.5
30°	5060.3	4313.1	3613.0	2999.9	2488.4	2074.9	1737.6	1447.4	1186.2	972.2	725.5
27.5°	5332.4	4567.0	3830.6	3163.2	2600.9	2151.1	1802.9	1494.5	1222.5	997.6	750.9
25°	5579.1	4795.5	4030.1	3311.9	2702.5	2234.5	1864.5	1541.7	1255.1	1019.3	772.7
22.5°	5811.2	5005.9	4211.5	3460.6	2825.8	2318.0	1922.6	1585.2	1287.8	1041.1	794.4
20°	6014.4	5198.2	4385.6	3609.3	2934.6	2394.1	1973.3	1625.1	1316.8	1055.6	816.2
17.5°	6177.6	5368.7	4541.6	3739.9	3028.9	2459.4	2016.9	1661.4	1342.2	1073.7	830.7
15°	6322.7	5513.8	4672.2	3852.4	3112.4	2513.8	2056.8	1690.4	1363.9	1084.6	848.8
12.5°	6446.0	5637.1	4784.6	3950.3	3184.9	2561.0	2089.4	1712.2	1382.1	1095.5	859.7
10°	6547.6	5735.0	4879.0	4026.5	3243.0	2597.3	2114.8	1733.9	1396.6	1106.4	870.6
7.5°	6623.8	5807.6	4947.9	4091.8	3290.1	2622.7	2136.6	1748.4	1411.1	1113.6	888.7
5°	6681.8	5869.3	5002.3	4135.3	3326.4	2658.9	2162.0	1766.6	1425.6	1120.9	888.7
2.5°	6725.3	5920.0	5045.8	4171.6	3355.4	2651.7	2162.0	1763.0	1425.6	1120.9	885.1
0°	6718.1	5923.7	5042.2	4171.6	3355.4	2644.4	2162.0	1759.3	1425.6	1120.9	885.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.4	18.1	7.3	0.0
85°	54.4	36.3	18.1	0.0
82.5°	79.8	50.8	25.4	0.0
80°	105.2	68.9	32.6	0.0
77.5°	134.2	87.1	43.5	0.0
75°	159.6	101.6	50.8	0.0
72.5°	185.0	119.7	58.0	0.0
70°	206.8	134.2	65.3	0.0
67.5°	228.5	152.4	76.2	0.0
65°	246.7	166.9	83.4	0.0
62.5°	261.2	185.0	90.7	0.0
60°	279.3	199.5	97.9	0.0
57.5°	293.8	210.4	105.2	0.0
55°	308.3	217.6	112.5	0.0
52.5°	322.8	228.5	119.7	0.0
50°	337.4	239.4	127.0	0.0
47.5°	351.9	246.7	130.6	0.0
45°	373.6	257.6	137.8	0.0
42.5°	391.8	264.8	145.1	0.0
40°	409.9	272.1	148.7	0.0
37.5°	428.0	279.3	156.0	0.0
35°	446.2	286.6	159.6	0.0
32.5°	460.7	293.8	163.2	0.0
30°	475.2	301.1	166.9	0.0
27.5°	489.7	304.7	170.5	0.0
25°	500.6	312.0	174.1	0.0
22.5°	511.5	315.6	177.7	0.0
20°	518.7	319.2	181.4	0.0
17.5°	529.6	322.8	185.0	0.0
15°	533.2	326.5	192.3	0.0
12.5°	540.5	330.1	192.3	0.0
10°	544.1	333.7	192.3	0.0
7.5°	551.4	333.7	192.3	0.0
5°	547.7	333.7	192.3	0.0
2.5°	547.7	333.7	192.3	0.0
0°	544.1	333.7	192.3	0.0

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