

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: P628233

Luminaire Tested: **IFLD-L-SA8A-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628233
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32103.7 lumens	Max Intensity:	10464.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	129.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

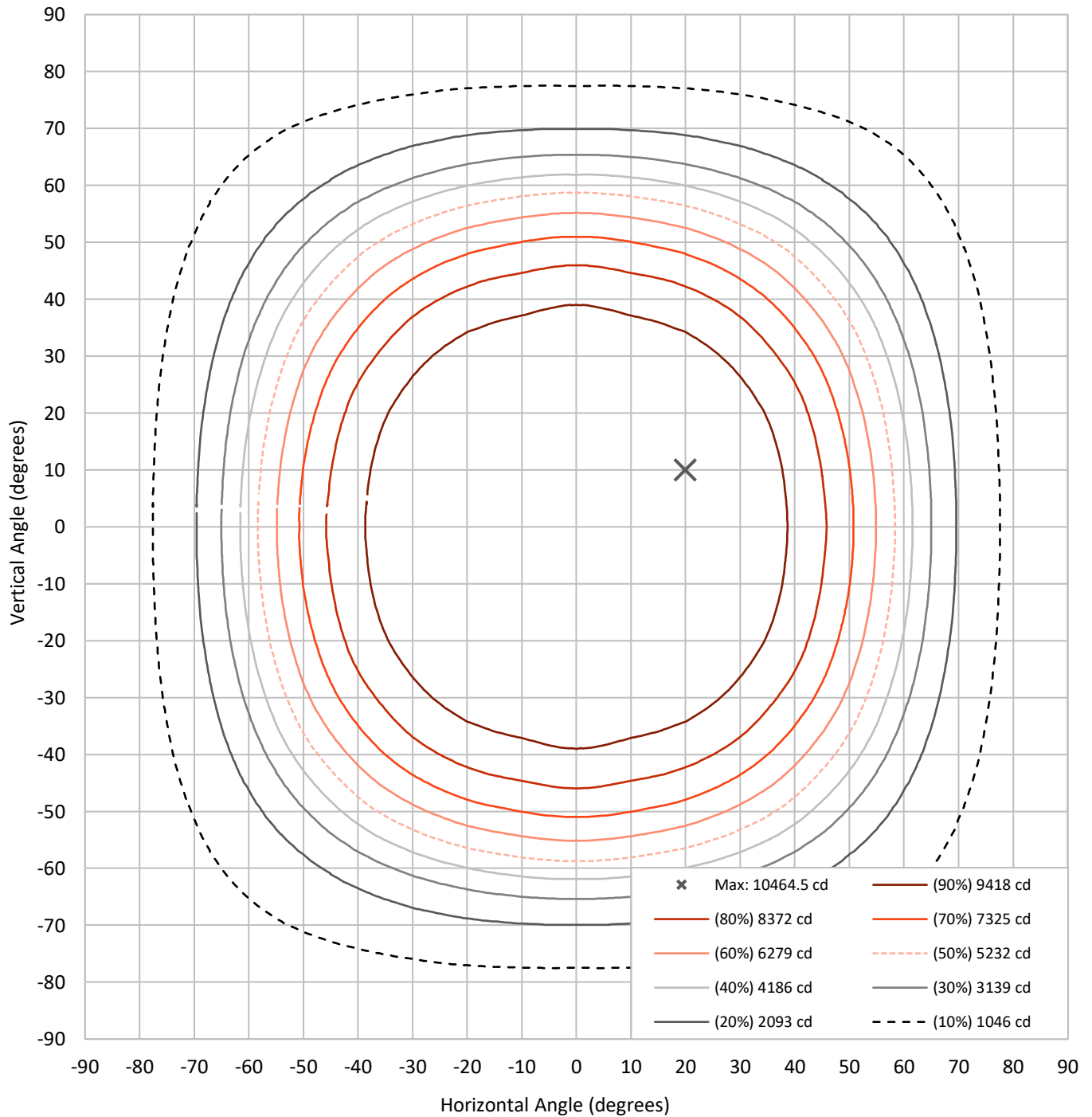
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19699.5 lumens	Field Lumens:	23616.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 247.8
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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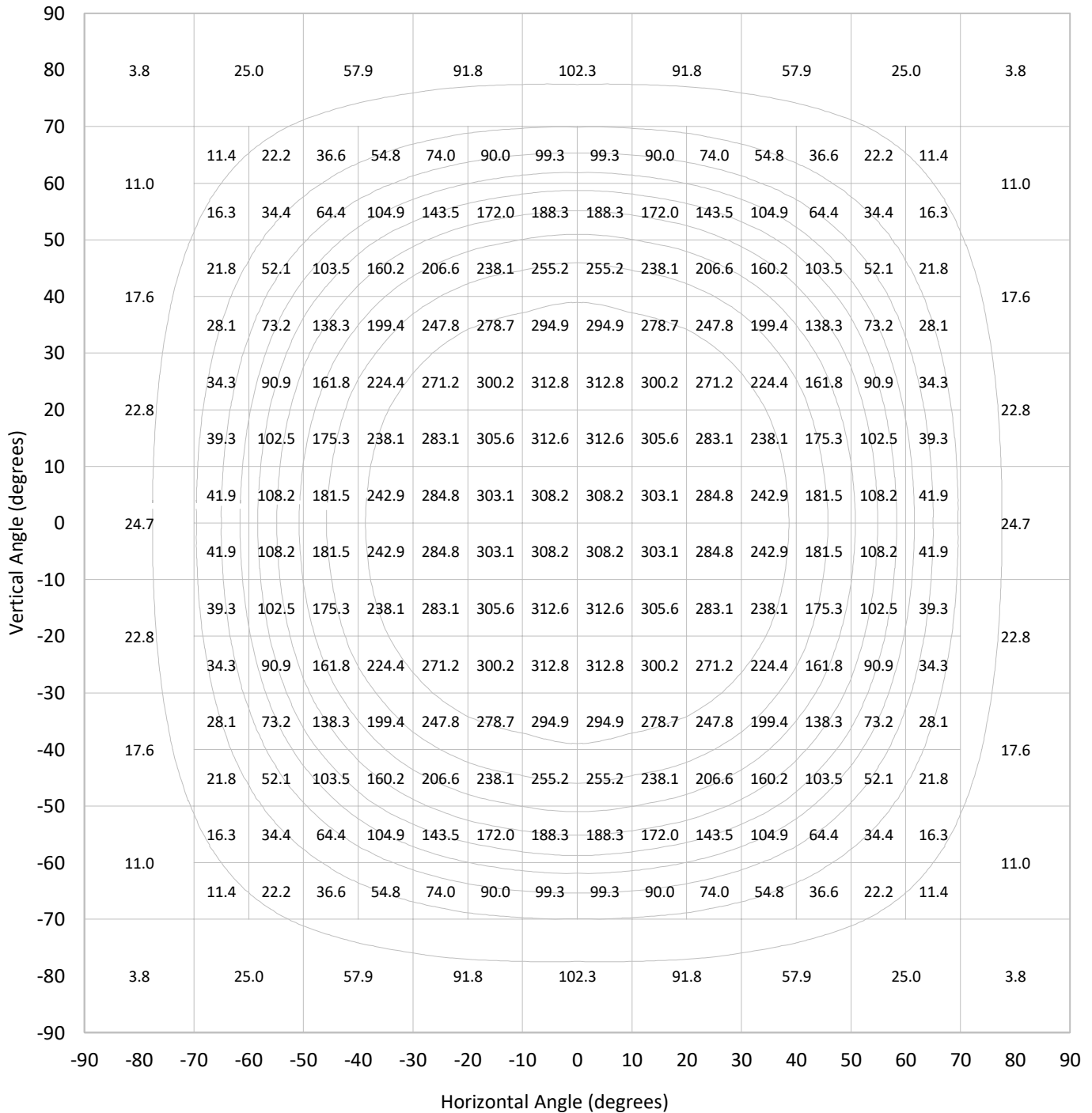
Iso-Candela Plot





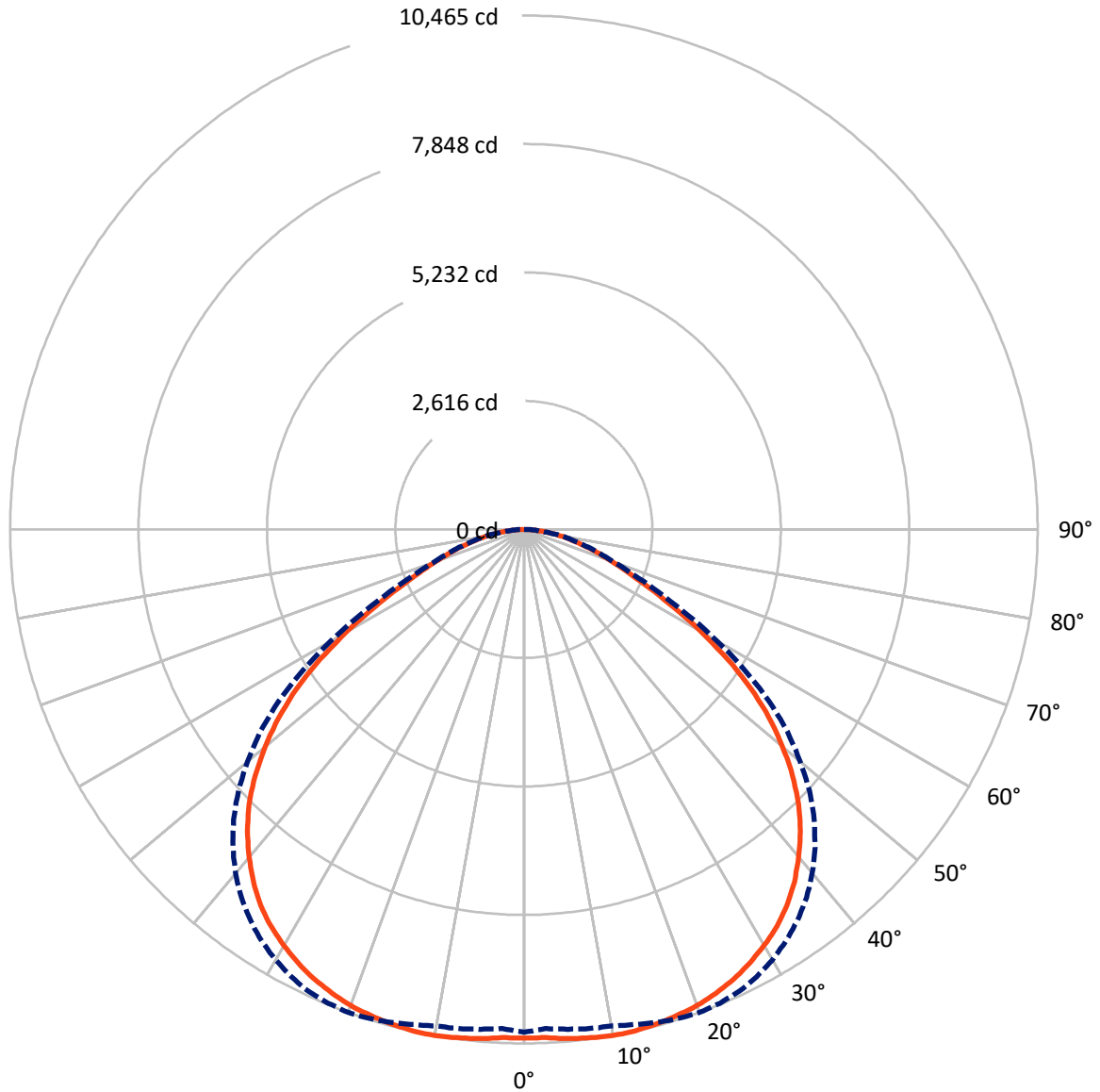
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Lumen Table



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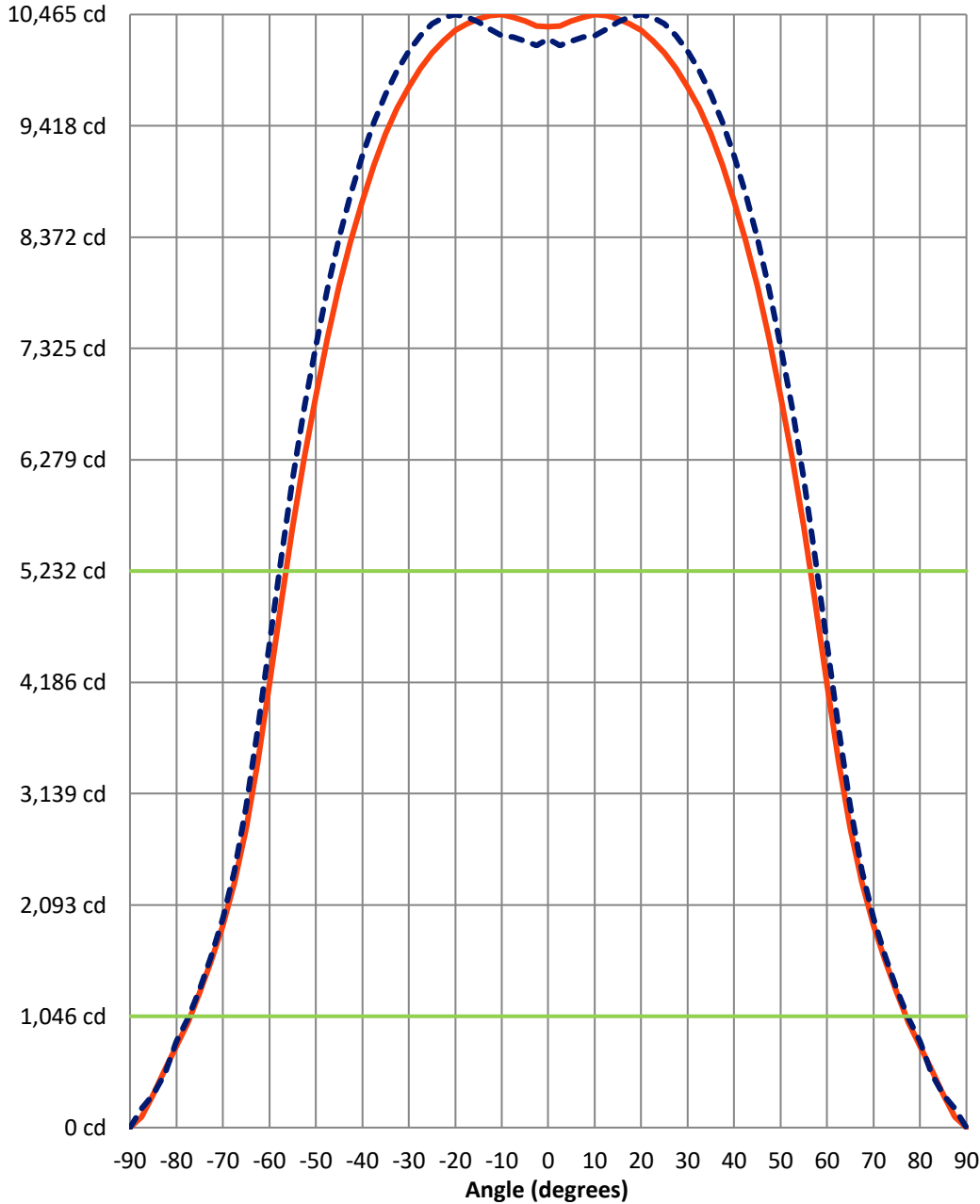
Luminous Intensity Polar Plot



— 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: 19699.5
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 23616.3
Efficiency: 73.6%

Spill:
Lumens: 8487.4
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°	84.4	91.2	94.6	98.0	101.3	104.7	108.1	104.7	101.3	101.3	98.0
85°	226.3	233.1	236.4	260.1	283.7	297.2	314.1	310.8	310.8	307.4	304.0
82.5°	452.6	472.9	489.8	513.4	526.9	547.2	560.7	550.6	543.8	530.3	520.2
80°	803.9	810.7	814.1	817.4	800.5	797.2	790.4	780.3	766.8	749.9	733.0
77.5°	1023.5	1030.2	1037.0	1030.2	1026.9	1023.5	1013.3	1003.2	989.7	976.2	955.9
75°	1354.5	1354.5	1354.5	1344.4	1337.6	1327.5	1310.6	1293.7	1270.1	1243.0	1212.6
72.5°	1705.8	1702.4	1699.0	1678.8	1661.9	1641.6	1618.0	1597.7	1570.7	1540.3	1499.8
70°	2074.0	2080.7	2084.1	2057.1	2036.8	2009.8	1979.4	1942.3	1901.7	1857.8	1800.4
67.5°	2580.7	2573.9	2567.1	2530.0	2503.0	2465.8	2421.9	2367.9	2307.1	2239.5	2158.4
65°	3208.9	3219.1	3198.8	3161.6	3111.0	3050.2	2982.6	2904.9	2813.7	2712.4	2597.5
62.5°	3968.9	3985.8	3962.2	3914.9	3850.7	3769.7	3675.1	3563.6	3438.6	3296.8	3154.9
60°	4833.7	4830.3	4786.4	4722.2	4637.8	4536.4	4431.7	4310.1	4168.2	4002.7	3830.5
57.5°	5627.5	5620.7	5566.7	5502.5	5418.0	5309.9	5198.5	5070.1	4921.5	4745.8	4546.6
55°	6340.2	6333.4	6279.4	6211.8	6124.0	6015.9	5914.6	5793.0	5647.7	5461.9	5249.1
52.5°	6971.8	6975.2	6927.9	6853.6	6759.0	6654.3	6556.4	6434.8	6296.3	6110.5	5904.4
50°	7552.8	7549.4	7498.8	7431.2	7343.4	7242.1	7144.1	7022.5	6877.3	6698.2	6498.9
47.5°	8093.3	8086.5	8029.1	7954.8	7863.6	7775.8	7684.6	7576.5	7424.5	7245.4	7046.1
45°	8545.9	8532.4	8475.0	8404.0	8316.2	8238.5	8157.5	8076.4	7914.2	7748.7	7559.6
42.5°	8934.4	8931.0	8873.6	8802.6	8714.8	8647.2	8572.9	8471.6	8336.5	8184.5	7998.7
40°	9305.9	9278.9	9221.5	9153.9	9072.8	9015.4	8941.1	8839.8	8708.0	8559.4	8380.4
37.5°	9582.9	9586.3	9525.5	9451.2	9380.2	9326.2	9258.6	9164.0	9049.2	8904.0	8724.9
35°	9846.4	9829.5	9778.8	9714.6	9650.5	9589.7	9518.7	9437.6	9343.1	9208.0	9039.1
32.5°	10018.6	10042.3	9981.5	9913.9	9876.8	9829.5	9755.2	9670.7	9586.3	9451.2	9299.2
30°	10207.8	10187.5	10140.2	10082.8	10055.8	10025.4	9961.2	9880.1	9782.2	9660.6	9518.7
27.5°	10339.5	10329.4	10272.0	10217.9	10204.4	10177.4	10126.7	10055.8	9957.8	9839.6	9707.9
25°	10397.0	10403.7	10349.7	10319.3	10319.3	10302.4	10261.8	10201.0	10103.1	9995.0	9866.6
22.5°	10424.0	10417.2	10380.1	10373.3	10390.2	10376.7	10359.8	10305.8	10217.9	10130.1	10022.0
20°	10440.9	10393.6	10359.8	10386.8	10407.1	10403.7	10390.2	10356.4	10315.9	10241.6	10147.0
17.5°	10403.7	10373.3	10332.8	10373.3	10417.2	10420.6	10407.1	10386.8	10376.7	10329.4	10244.9
15°	10312.5	10288.9	10295.6	10336.2	10386.8	10403.7	10413.8	10437.5	10424.0	10386.8	10312.5
12.5°	10251.7	10221.3	10251.7	10292.2	10319.3	10329.4	10410.5	10454.4	10454.4	10420.6	10373.3
10°	10234.8	10174.0	10214.5	10251.7	10265.2	10326.0	10393.6	10440.9	10464.5	10437.5	10376.7
7.5°	10201.0	10160.5	10177.4	10194.3	10272.0	10315.9	10353.0	10403.7	10437.5	10434.1	10380.1
5°	10184.1	10133.5	10140.2	10211.2	10265.2	10295.6	10309.1	10353.0	10403.7	10413.8	10373.3
2.5°	10140.2	10116.6	10167.3	10174.0	10214.5	10238.2	10251.7	10292.2	10356.4	10380.1	10363.2
0°	10116.6	10082.8	10049.0	10076.1	10143.6	10194.3	10214.5	10275.3	10349.7	10373.3	10336.2



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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°	94.6	91.2	87.8	84.4	87.8	87.8	87.8	84.4	87.8	84.4	84.4
85°	293.9	280.4	270.2	256.7	243.2	233.1	219.6	206.0	202.7	199.3	192.5
82.5°	506.7	489.8	472.9	452.6	432.4	408.7	385.1	358.0	351.3	344.5	334.4
80°	712.7	689.1	665.4	641.8	621.5	597.9	570.9	540.5	520.2	503.3	483.0
77.5°	928.9	895.1	861.3	820.8	797.2	773.5	746.5	716.1	685.7	658.7	628.3
75°	1175.5	1138.3	1104.5	1064.0	1020.1	976.2	932.3	891.7	847.8	807.3	766.8
72.5°	1449.1	1395.0	1341.0	1290.3	1236.3	1182.2	1124.8	1070.8	1016.7	962.7	905.3
70°	1736.2	1668.6	1601.1	1533.5	1462.6	1391.7	1324.1	1256.6	1189.0	1118.1	1053.9
67.5°	2074.0	1996.3	1908.5	1813.9	1709.2	1618.0	1530.2	1449.1	1368.0	1287.0	1205.9
65°	2496.2	2388.1	2269.9	2141.5	2019.9	1898.3	1770.0	1648.4	1553.8	1459.2	1368.0
62.5°	3016.4	2864.4	2698.9	2533.4	2384.7	2226.0	2077.4	1918.6	1770.0	1634.9	1523.4
60°	3637.9	3431.9	3229.2	3016.4	2810.4	2594.2	2405.0	2209.1	2023.3	1857.8	1695.7
57.5°	4323.6	4083.8	3840.6	3580.5	3300.1	3046.8	2790.1	2533.4	2313.8	2094.3	1911.9
55°	5019.5	4766.1	4492.5	4198.6	3891.3	3567.0	3219.1	2932.0	2631.3	2374.6	2138.2
52.5°	5681.5	5418.0	5134.3	4864.1	4495.9	4124.3	3742.6	3364.3	3013.0	2685.4	2398.3
50°	6272.6	6015.9	5742.3	5428.2	5087.0	4691.8	4266.2	3840.6	3425.1	3040.0	2682.0
47.5°	6813.1	6563.1	6289.5	5975.4	5664.6	5225.5	4796.5	4327.0	3864.2	3421.7	3002.9
45°	7319.8	7066.4	6782.7	6482.1	6124.0	5732.2	5289.7	4816.8	4320.2	3823.7	3340.7
42.5°	7779.1	7525.8	7238.7	6927.9	6573.3	6184.8	5755.8	5279.5	4779.6	4239.2	3708.9
40°	8181.1	7934.5	7657.5	7333.3	7002.2	6593.5	6171.3	5718.7	5201.9	4658.0	4073.7
37.5°	8532.4	8302.7	8029.1	7708.2	7356.9	6992.1	6556.4	6103.7	5637.6	5046.5	4448.6
35°	8843.2	8630.3	8350.0	8046.0	7701.4	7316.4	6907.7	6465.2	5961.9	5407.9	4826.9
32.5°	9113.4	8897.2	8640.5	8336.5	8002.1	7640.6	7221.8	6775.9	6299.6	5735.6	5103.9
30°	9343.1	9133.6	8890.4	8603.3	8282.4	7924.4	7515.7	7066.4	6580.0	6019.3	5394.4
27.5°	9542.4	9343.1	9106.6	8839.8	8532.4	8187.9	7775.8	7323.1	6826.6	6286.1	5661.2
25°	9714.6	9522.1	9302.5	9049.2	8745.2	8407.4	8019.0	7546.1	7049.5	6505.7	5887.6
22.5°	9870.0	9684.2	9464.7	9218.1	8941.1	8603.3	8211.5	7742.0	7238.7	6701.6	6093.6
20°	10008.5	9836.2	9620.1	9366.7	9089.7	8748.6	8360.1	7914.2	7407.6	6880.6	6279.4
17.5°	10120.0	9968.0	9751.8	9484.9	9208.0	8876.9	8498.6	8089.9	7552.8	7032.6	6434.8
15°	10197.7	10049.0	9853.1	9582.9	9312.7	8985.0	8606.7	8184.5	7684.6	7154.2	6563.1
12.5°	10251.7	10092.9	9910.5	9660.6	9390.4	9066.1	8697.9	8282.4	7796.0	7262.3	6674.6
10°	10265.2	10120.0	9937.6	9714.6	9451.2	9137.0	8775.6	8363.5	7887.2	7346.8	6765.8
7.5°	10272.0	10133.5	9968.0	9755.2	9495.1	9191.1	8833.0	8427.7	7954.8	7417.7	6833.3
5°	10268.6	10136.9	9988.2	9782.2	9522.1	9221.5	8870.2	8471.6	8002.1	7465.0	6884.0
2.5°	10258.5	10140.2	10001.7	9802.5	9552.5	9255.2	8907.3	8522.3	8052.7	7505.5	6924.5
0°	10285.5	10184.1	10008.5	9795.7	9559.3	9255.2	8904.0	8529.0	8059.5	7502.2	6921.2



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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°	84.4	81.1	81.1	77.7	74.3	70.9	64.2	60.8	54.0	43.9	33.8
85°	182.4	172.3	162.1	155.4	148.6	141.9	131.7	121.6	108.1	87.8	67.6
82.5°	320.9	300.6	280.4	256.7	236.4	216.2	199.3	182.4	162.1	131.7	101.3
80°	459.4	429.0	398.6	364.8	334.4	300.6	270.2	243.2	216.2	175.6	135.1
77.5°	597.9	557.3	513.4	472.9	429.0	385.1	341.2	304.0	263.5	216.2	168.9
75°	726.2	678.9	638.4	581.0	526.9	469.5	412.1	361.4	310.8	253.3	202.7
72.5°	854.6	793.8	736.4	682.3	621.5	550.6	486.4	422.2	358.0	290.5	229.7
70°	982.9	908.6	837.7	773.5	706.0	635.0	557.3	483.0	405.3	324.3	253.3
67.5°	1114.7	1030.2	949.2	868.1	790.4	709.3	628.3	543.8	452.6	358.0	280.4
65°	1259.9	1155.2	1057.3	966.1	874.9	787.0	695.8	604.6	503.3	395.2	304.0
62.5°	1405.2	1290.3	1175.5	1060.6	959.3	861.3	763.4	662.1	550.6	435.7	327.6
60°	1560.6	1428.8	1297.1	1168.7	1043.7	935.7	827.6	719.5	601.3	472.9	351.3
57.5°	1732.8	1574.1	1425.4	1280.2	1138.3	1010.0	891.7	776.9	645.2	510.1	378.3
55°	1928.7	1732.8	1557.2	1395.0	1239.7	1084.3	955.9	837.7	695.8	547.2	408.7
52.5°	2134.8	1908.5	1695.7	1513.3	1347.8	1172.1	1016.7	885.0	746.5	584.4	435.7
50°	2374.6	2087.5	1851.0	1628.1	1442.3	1259.9	1080.9	939.0	797.2	628.3	462.8
47.5°	2621.2	2303.7	2006.4	1763.2	1543.7	1344.4	1155.2	986.3	844.5	668.8	489.8
45°	2908.3	2509.7	2182.1	1895.0	1641.6	1432.2	1229.5	1037.0	885.0	709.3	516.8
42.5°	3185.3	2752.9	2364.5	2040.2	1753.1	1516.6	1297.1	1091.0	925.5	749.9	540.5
40°	3512.9	2996.1	2540.1	2178.7	1864.6	1597.7	1364.6	1148.5	962.7	787.0	564.1
37.5°	3827.1	3242.7	2752.9	2330.7	1972.7	1678.8	1432.2	1202.5	996.5	824.2	594.5
35°	4137.8	3516.3	2955.6	2472.6	2084.1	1770.0	1499.8	1253.2	1030.2	854.6	621.5
32.5°	4435.1	3773.0	3161.6	2631.3	2205.7	1854.4	1560.6	1300.5	1064.0	881.6	648.5
30°	4712.1	4016.2	3364.3	2793.5	2317.2	1932.1	1618.0	1347.8	1104.5	905.3	675.6
27.5°	4965.4	4252.7	3567.0	2945.5	2421.9	2003.1	1678.8	1391.7	1138.3	928.9	699.2
25°	5195.1	4465.5	3752.8	3084.0	2516.5	2080.7	1736.2	1435.6	1168.7	949.2	719.5
22.5°	5411.3	4661.4	3921.7	3222.4	2631.3	2158.4	1790.2	1476.1	1199.1	969.4	739.7
20°	5600.4	4840.4	4083.8	3360.9	2732.7	2229.4	1837.5	1513.3	1226.2	982.9	760.0
17.5°	5752.4	4999.2	4229.0	3482.5	2820.5	2290.2	1878.1	1547.0	1249.8	999.8	773.5
15°	5887.6	5134.3	4350.6	3587.3	2898.2	2340.8	1915.2	1574.1	1270.1	1010.0	790.4
12.5°	6002.4	5249.1	4455.4	3678.5	2965.7	2384.7	1945.6	1594.3	1287.0	1020.1	800.5
10°	6097.0	5340.3	4543.2	3749.4	3019.8	2418.5	1969.3	1614.6	1300.5	1030.2	810.7
7.5°	6167.9	5407.9	4607.4	3810.2	3063.7	2442.2	1989.5	1628.1	1314.0	1037.0	827.6
5°	6222.0	5465.3	4658.0	3850.7	3097.5	2475.9	2013.2	1645.0	1327.5	1043.7	827.6
2.5°	6262.5	5512.6	4698.6	3884.5	3124.5	2469.2	2013.2	1641.6	1327.5	1043.7	824.2
0°	6255.7	5516.0	4695.2	3884.5	3124.5	2462.4	2013.2	1638.2	1327.5	1043.7	824.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.6	16.9	6.8	0.0
85°	50.7	33.8	16.9	0.0
82.5°	74.3	47.3	23.6	0.0
80°	98.0	64.2	30.4	0.0
77.5°	125.0	81.1	40.5	0.0
75°	148.6	94.6	47.3	0.0
72.5°	172.3	111.5	54.0	0.0
70°	192.5	125.0	60.8	0.0
67.5°	212.8	141.9	70.9	0.0
65°	229.7	155.4	77.7	0.0
62.5°	243.2	172.3	84.4	0.0
60°	260.1	185.8	91.2	0.0
57.5°	273.6	195.9	98.0	0.0
55°	287.1	202.7	104.7	0.0
52.5°	300.6	212.8	111.5	0.0
50°	314.1	222.9	118.2	0.0
47.5°	327.6	229.7	121.6	0.0
45°	347.9	239.8	128.4	0.0
42.5°	364.8	246.6	135.1	0.0
40°	381.7	253.3	138.5	0.0
37.5°	398.6	260.1	145.2	0.0
35°	415.5	266.8	148.6	0.0
32.5°	429.0	273.6	152.0	0.0
30°	442.5	280.4	155.4	0.0
27.5°	456.0	283.7	158.8	0.0
25°	466.1	290.5	162.1	0.0
22.5°	476.3	293.9	165.5	0.0
20°	483.0	297.2	168.9	0.0
17.5°	493.2	300.6	172.3	0.0
15°	496.5	304.0	179.0	0.0
12.5°	503.3	307.4	179.0	0.0
10°	506.7	310.8	179.0	0.0
7.5°	513.4	310.8	179.0	0.0
5°	510.1	310.8	179.0	0.0
2.5°	510.1	310.8	179.0	0.0
0°	506.7	310.8	179.0	0.0

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