

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: P628215

Luminaire Tested: **IFLD-S-SA3C-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628215
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

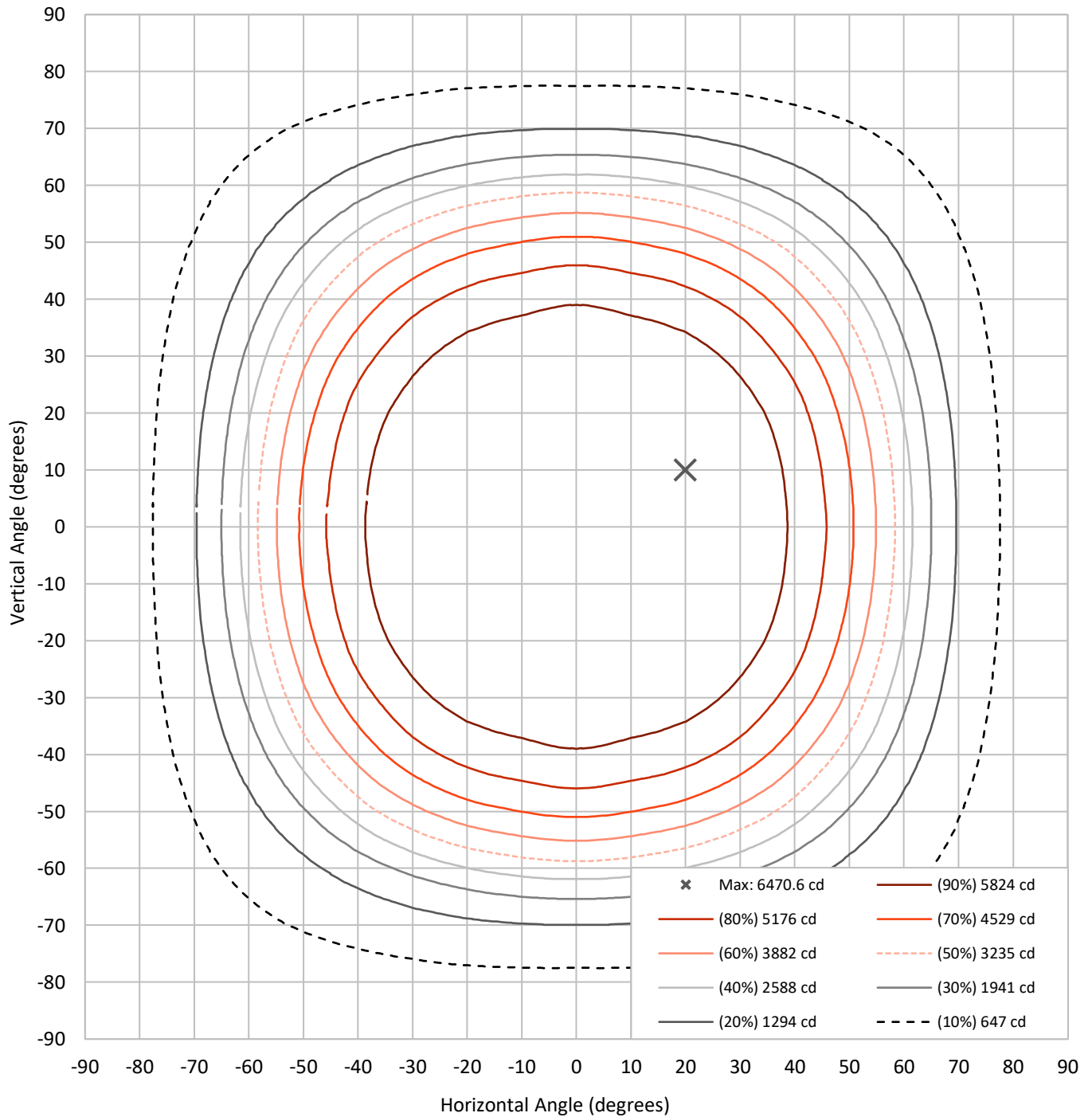
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19851 lumens	Max Intensity:	6470.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	123.5 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:	12181 lumens	Field Lumens:	14602.9 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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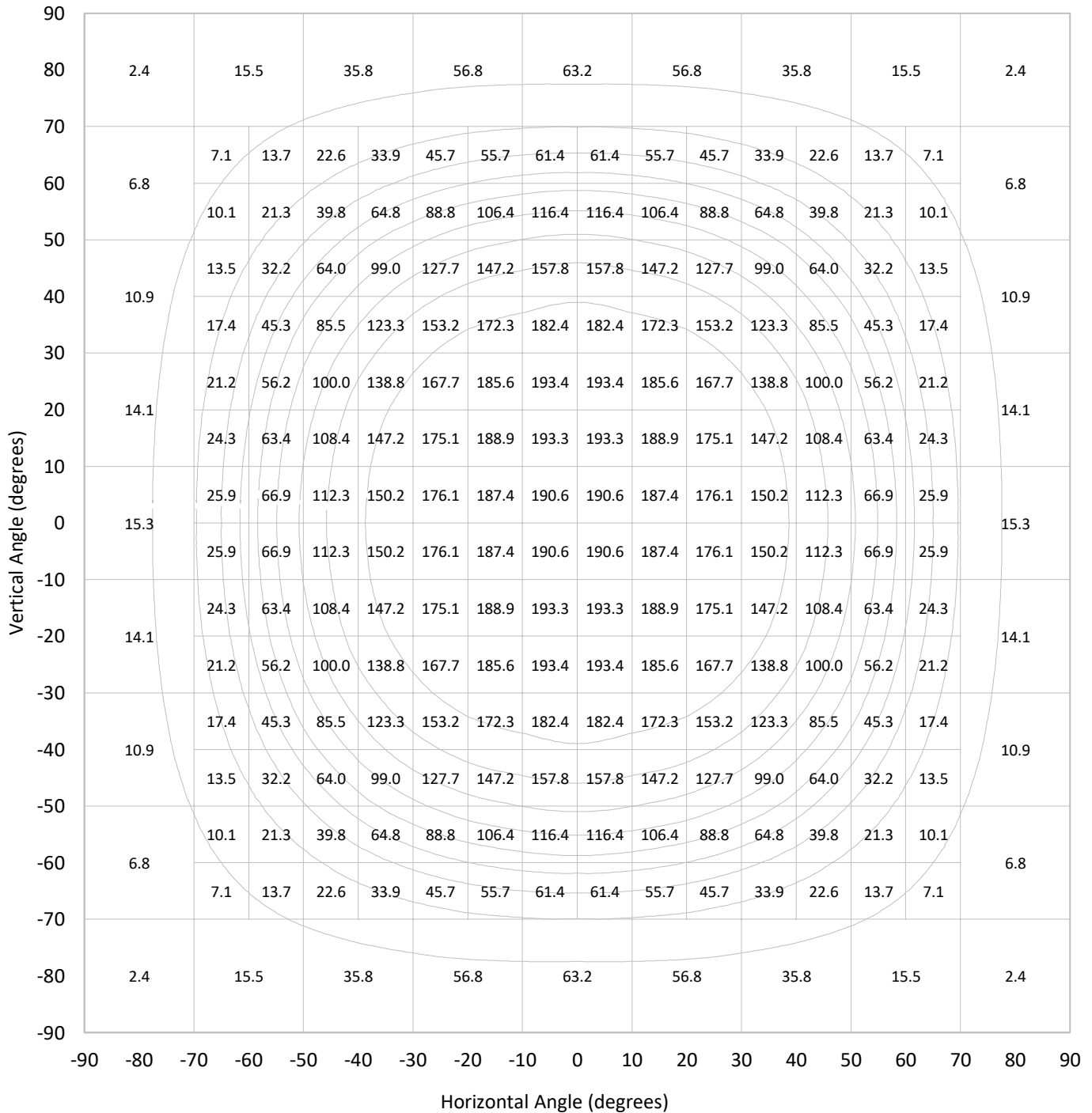
Iso-Candela Plot





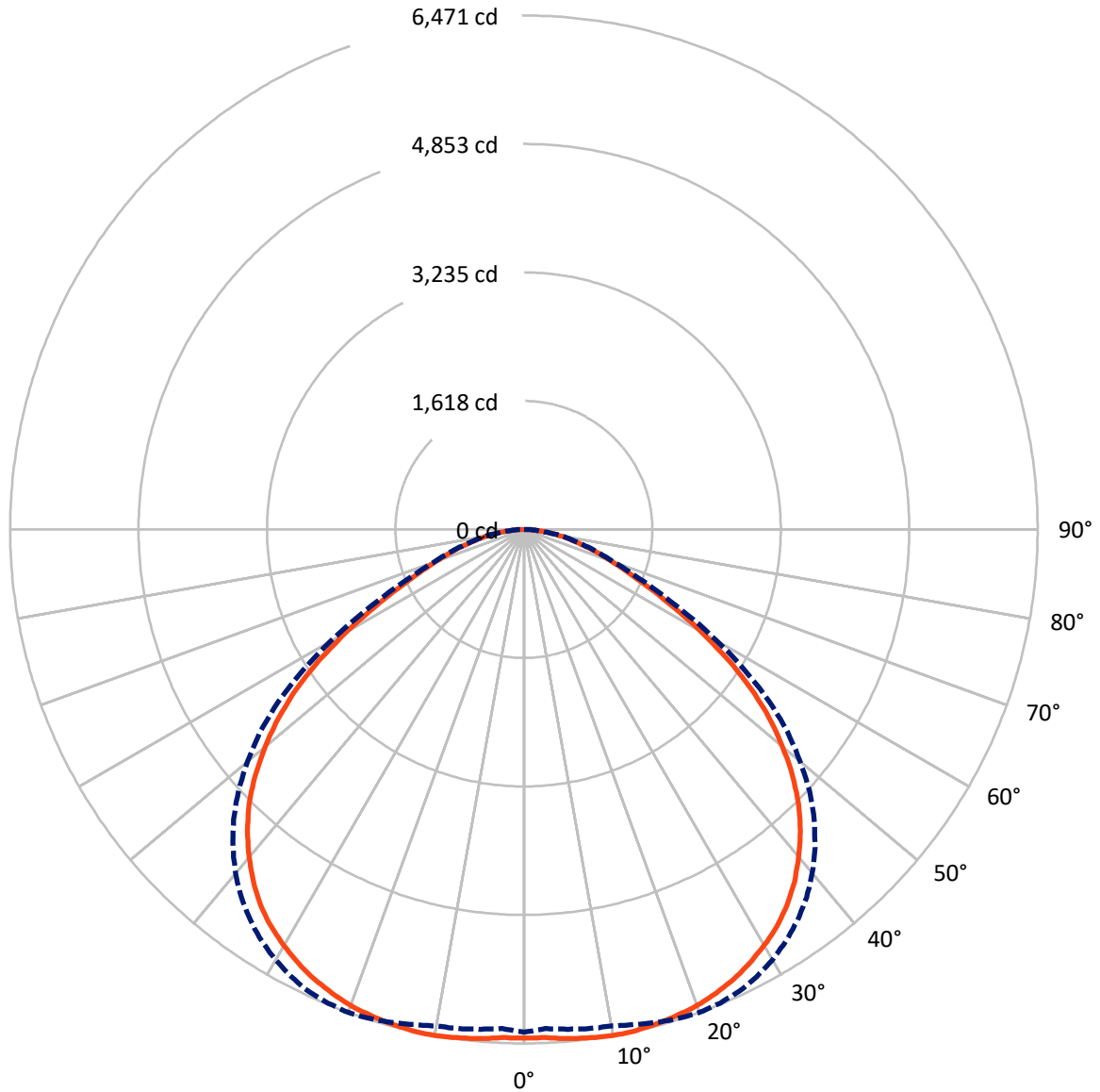
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Lumen Table



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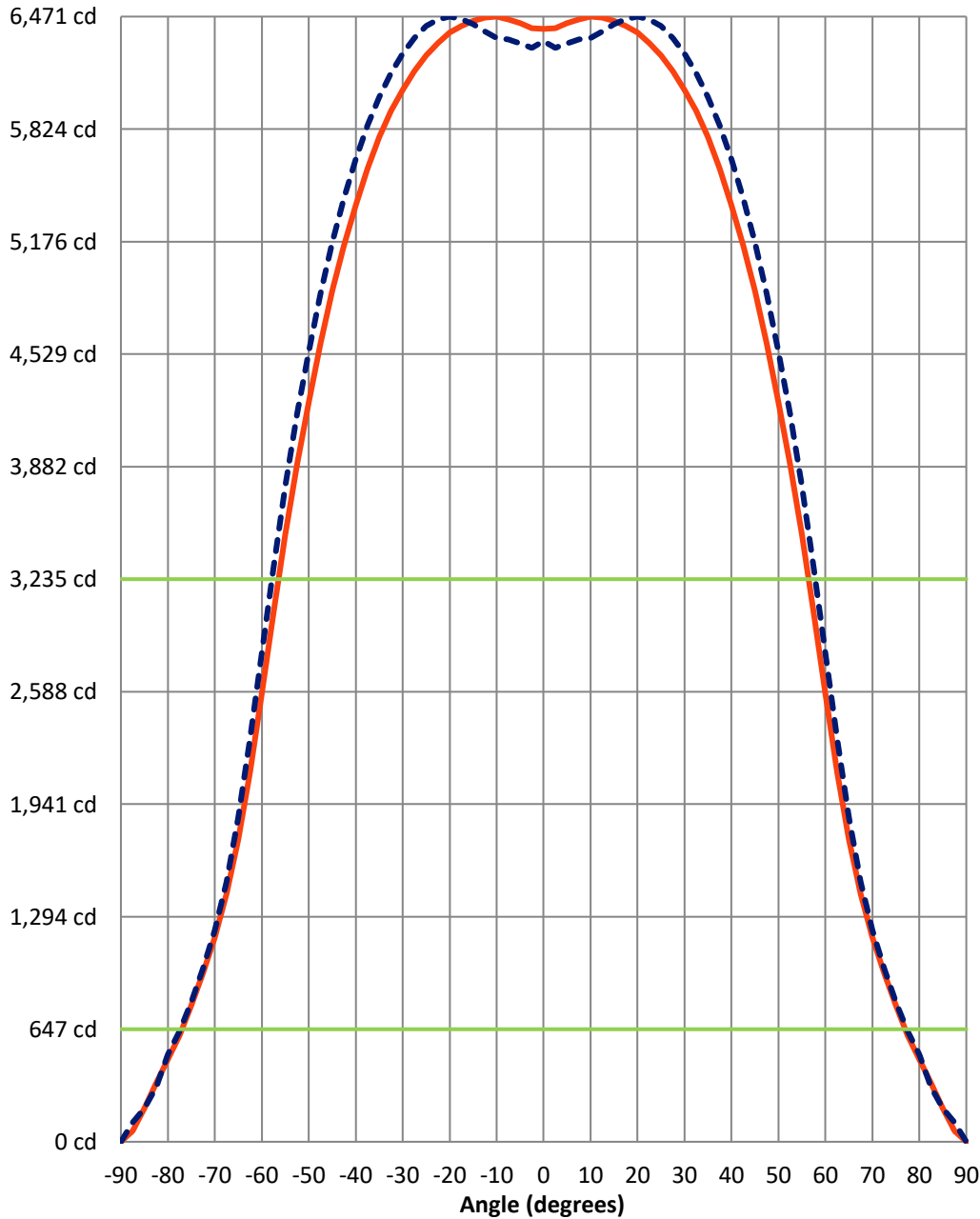
Luminous Intensity Polar Plot



— 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: 12181
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 14602.9
Efficiency: 73.6%

Spill:
Lumens: 5248.1
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°	52.2	56.4	58.5	60.6	62.7	64.7	66.8	64.7	62.7	62.7	60.6
85°	139.9	144.1	146.2	160.8	175.4	183.8	194.2	192.2	192.2	190.1	188.0
82.5°	279.9	292.4	302.9	317.5	325.8	338.4	346.7	340.4	336.3	327.9	321.7
80°	497.1	501.3	503.4	505.5	495.0	492.9	488.7	482.5	474.1	463.7	453.2
77.5°	632.9	637.0	641.2	637.0	634.9	632.9	626.6	620.3	612.0	603.6	591.1
75°	837.5	837.5	837.5	831.3	827.1	820.8	810.4	800.0	785.3	768.6	749.8
72.5°	1054.8	1052.7	1050.6	1038.1	1027.6	1015.1	1000.5	987.9	971.2	952.4	927.4
70°	1282.4	1286.6	1288.7	1272.0	1259.5	1242.7	1223.9	1201.0	1175.9	1148.8	1113.2
67.5°	1595.7	1591.5	1587.4	1564.4	1547.7	1524.7	1497.6	1464.1	1426.5	1384.8	1334.6
65°	1984.2	1990.5	1977.9	1955.0	1923.6	1886.0	1844.3	1796.2	1739.8	1677.2	1606.2
62.5°	2454.2	2464.6	2450.0	2420.7	2381.1	2330.9	2272.4	2203.5	2126.2	2038.5	1950.8
60°	2988.8	2986.8	2959.6	2919.9	2867.7	2805.0	2740.3	2665.1	2577.4	2475.0	2368.5
57.5°	3479.7	3475.5	3442.1	3402.4	3350.2	3283.3	3214.4	3135.1	3043.2	2934.5	2811.3
55°	3920.4	3916.2	3882.8	3841.0	3786.7	3719.9	3657.2	3582.0	3492.2	3377.3	3245.8
52.5°	4311.0	4313.0	4283.8	4237.9	4179.4	4114.6	4054.1	3978.9	3893.2	3778.4	3650.9
50°	4670.2	4668.1	4636.8	4595.0	4540.7	4478.1	4417.5	4342.3	4252.5	4141.8	4018.5
47.5°	5004.4	5000.2	4964.7	4918.8	4862.4	4808.1	4751.7	4684.8	4590.8	4480.1	4356.9
45°	5284.3	5275.9	5240.4	5196.5	5142.2	5094.2	5044.1	4993.9	4893.7	4791.3	4674.4
42.5°	5524.5	5522.4	5486.9	5443.0	5388.7	5346.9	5301.0	5238.3	5154.8	5060.8	4945.9
40°	5754.2	5737.5	5702.0	5660.2	5610.1	5574.6	5528.6	5466.0	5384.5	5292.6	5181.9
37.5°	5925.5	5927.6	5890.0	5844.0	5800.2	5766.7	5725.0	5666.5	5595.5	5505.7	5395.0
35°	6088.4	6078.0	6046.6	6006.9	5967.3	5929.7	5885.8	5835.7	5777.2	5693.6	5589.2
32.5°	6194.9	6209.5	6171.9	6130.2	6107.2	6078.0	6032.0	5979.8	5927.6	5844.0	5750.0
30°	6311.9	6299.3	6270.1	6234.6	6217.9	6199.1	6159.4	6109.3	6048.7	5973.5	5885.8
27.5°	6393.3	6387.1	6351.6	6318.1	6309.8	6293.1	6261.8	6217.9	6157.3	6084.2	6002.8
25°	6428.8	6433.0	6399.6	6380.8	6380.8	6370.4	6345.3	6307.7	6247.1	6180.3	6100.9
22.5°	6445.6	6441.4	6418.4	6414.2	6424.7	6416.3	6405.9	6372.5	6318.1	6263.8	6197.0
20°	6456.0	6426.8	6405.9	6422.6	6435.1	6433.0	6424.7	6403.8	6378.7	6332.8	6274.3
17.5°	6433.0	6414.2	6389.2	6414.2	6441.4	6443.5	6435.1	6422.6	6416.3	6387.1	6334.9
15°	6376.6	6362.0	6366.2	6391.2	6422.6	6433.0	6439.3	6453.9	6445.6	6422.6	6376.6
12.5°	6339.0	6320.2	6339.0	6364.1	6380.8	6387.1	6437.2	6464.4	6464.4	6443.5	6414.2
10°	6328.6	6291.0	6316.1	6339.0	6347.4	6385.0	6426.8	6456.0	6470.6	6453.9	6416.3
7.5°	6307.7	6282.6	6293.1	6303.5	6351.6	6378.7	6401.7	6433.0	6453.9	6451.8	6418.4
5°	6297.3	6265.9	6270.1	6314.0	6347.4	6366.2	6374.5	6401.7	6433.0	6439.3	6414.2
2.5°	6270.1	6255.5	6286.8	6291.0	6316.1	6330.7	6339.0	6364.1	6403.8	6418.4	6408.0
0°	6255.5	6234.6	6213.7	6230.4	6272.2	6303.5	6316.1	6353.7	6399.6	6414.2	6391.2



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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°	58.5	56.4	54.3	52.2	54.3	54.3	54.3	52.2	54.3	52.2	52.2
85°	181.7	173.4	167.1	158.7	150.4	144.1	135.8	127.4	125.3	123.2	119.1
82.5°	313.3	302.9	292.4	279.9	267.3	252.7	238.1	221.4	217.2	213.0	206.8
80°	440.7	426.1	411.5	396.8	384.3	369.7	353.0	334.2	321.7	311.2	298.7
77.5°	574.4	553.5	532.6	507.5	492.9	478.3	461.6	442.8	424.0	407.3	388.5
75°	726.8	703.9	683.0	657.9	630.8	603.6	576.5	551.4	524.2	499.2	474.1
72.5°	896.0	862.6	829.2	797.9	764.4	731.0	695.5	662.1	628.7	595.3	559.8
70°	1073.6	1031.8	990.0	948.2	904.4	860.5	818.7	777.0	735.2	691.3	651.7
67.5°	1282.4	1234.4	1180.1	1121.6	1056.9	1000.5	946.2	896.0	845.9	795.8	745.6
65°	1543.5	1476.7	1403.6	1324.2	1249.0	1173.8	1094.4	1019.3	960.8	902.3	845.9
62.5°	1865.2	1771.2	1668.8	1566.5	1474.6	1376.4	1284.5	1186.3	1094.4	1010.9	942.0
60°	2249.5	2122.1	1996.7	1865.2	1737.8	1604.1	1487.1	1366.0	1251.1	1148.8	1048.5
57.5°	2673.5	2525.2	2374.8	2214.0	2040.6	1884.0	1725.2	1566.5	1430.7	1295.0	1182.2
55°	3103.7	2947.1	2777.9	2596.2	2406.1	2205.6	1990.5	1812.9	1627.1	1468.3	1322.1
52.5°	3513.1	3350.2	3174.7	3007.6	2780.0	2550.2	2314.2	2080.3	1863.1	1660.5	1482.9
50°	3878.6	3719.9	3550.7	3356.4	3145.5	2901.1	2638.0	2374.8	2117.9	1879.8	1658.4
47.5°	4212.8	4058.2	3889.1	3694.8	3502.7	3231.1	2965.9	2675.6	2389.4	2115.8	1856.8
45°	4526.1	4369.4	4194.0	4008.1	3786.7	3544.4	3270.8	2978.4	2671.4	2364.3	2065.7
42.5°	4810.1	4653.5	4476.0	4283.8	4064.5	3824.3	3559.0	3264.5	2955.4	2621.2	2293.3
40°	5058.7	4906.2	4735.0	4534.4	4329.8	4077.0	3816.0	3536.1	3216.5	2880.2	2518.9
37.5°	5275.9	5133.9	4964.7	4766.3	4549.1	4323.5	4054.1	3774.2	3485.9	3120.4	2750.7
35°	5468.1	5336.5	5163.1	4975.1	4762.1	4524.0	4271.3	3997.7	3686.5	3343.9	2984.7
32.5°	5635.2	5501.5	5342.7	5154.8	4948.0	4724.5	4465.5	4189.8	3895.3	3546.5	3155.9
30°	5777.2	5647.7	5497.3	5319.8	5121.4	4900.0	4647.2	4369.4	4068.7	3722.0	3335.6
27.5°	5900.4	5777.2	5631.0	5466.0	5275.9	5062.9	4808.1	4528.2	4221.1	3887.0	3500.6
25°	6006.9	5887.9	5752.1	5595.5	5407.5	5198.6	4958.4	4666.0	4359.0	4022.7	3640.5
22.5°	6103.0	5988.1	5852.4	5699.9	5528.6	5319.8	5077.5	4787.2	4476.0	4143.9	3767.9
20°	6188.6	6082.1	5948.5	5791.8	5620.5	5409.6	5169.4	4893.7	4580.4	4254.6	3882.8
17.5°	6257.6	6163.6	6029.9	5864.9	5693.6	5489.0	5255.0	5002.3	4670.2	4348.6	3978.9
15°	6305.6	6213.7	6092.6	5925.5	5758.4	5555.8	5321.9	5060.8	4751.7	4423.7	4058.2
12.5°	6339.0	6240.9	6128.1	5973.5	5806.4	5605.9	5378.3	5121.4	4820.6	4490.6	4127.2
10°	6347.4	6257.6	6144.8	6006.9	5844.0	5649.8	5426.3	5171.5	4877.0	4542.8	4183.6
7.5°	6351.6	6265.9	6163.6	6032.0	5871.2	5683.2	5461.8	5211.2	4918.8	4586.7	4225.3
5°	6349.5	6268.0	6176.1	6048.7	5887.9	5702.0	5484.8	5238.3	4948.0	4615.9	4256.7
2.5°	6343.2	6270.1	6184.5	6061.2	5906.7	5722.9	5507.8	5269.6	4979.3	4641.0	4281.7
0°	6359.9	6297.3	6188.6	6057.1	5910.9	5722.9	5505.7	5273.8	4983.5	4638.9	4279.6



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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°	52.2	50.1	50.1	48.0	46.0	43.9	39.7	37.6	33.4	27.2	20.9
85°	112.8	106.5	100.3	96.1	91.9	87.7	81.5	75.2	66.8	54.3	41.8
82.5°	198.4	185.9	173.4	158.7	146.2	133.7	123.2	112.8	100.3	81.5	62.7
80°	284.1	265.3	246.5	225.6	206.8	185.9	167.1	150.4	133.7	108.6	83.5
77.5°	369.7	344.6	317.5	292.4	265.3	238.1	211.0	188.0	162.9	133.7	104.4
75°	449.1	419.8	394.8	359.2	325.8	290.3	254.8	223.5	192.2	156.6	125.3
72.5°	528.4	490.8	455.3	421.9	384.3	340.4	300.8	261.1	221.4	179.6	142.0
70°	607.8	561.8	518.0	478.3	436.5	392.7	344.6	298.7	250.6	200.5	156.6
67.5°	689.3	637.0	586.9	536.8	488.7	438.6	388.5	336.3	279.9	221.4	173.4
65°	779.1	714.3	653.7	597.4	541.0	486.7	430.3	373.9	311.2	244.4	188.0
62.5°	868.9	797.9	726.8	655.8	593.2	532.6	472.0	409.4	340.4	269.4	202.6
60°	965.0	883.5	802.0	722.7	645.4	578.6	511.7	444.9	371.8	292.4	217.2
57.5°	1071.5	973.3	881.4	791.6	703.9	624.5	551.4	480.4	398.9	315.4	233.9
55°	1192.6	1071.5	962.9	862.6	766.5	670.5	591.1	518.0	430.3	338.4	252.7
52.5°	1320.0	1180.1	1048.5	935.7	833.4	724.8	628.7	547.2	461.6	361.3	269.4
50°	1468.3	1290.8	1144.6	1006.7	891.9	779.1	668.4	580.6	492.9	388.5	286.1
47.5°	1620.8	1424.5	1240.7	1090.3	954.5	831.3	714.3	609.9	522.2	413.6	302.9
45°	1798.3	1551.9	1349.3	1171.7	1015.1	885.6	760.3	641.2	547.2	438.6	319.6
42.5°	1969.6	1702.2	1462.1	1261.5	1084.0	937.8	802.0	674.6	572.3	463.7	334.2
40°	2172.2	1852.6	1570.7	1347.2	1152.9	987.9	843.8	710.1	595.3	486.7	348.8
37.5°	2366.4	2005.1	1702.2	1441.2	1219.8	1038.1	885.6	743.6	616.1	509.6	367.6
35°	2558.6	2174.3	1827.6	1528.9	1288.7	1094.4	927.4	774.9	637.0	528.4	384.3
32.5°	2742.4	2333.0	1955.0	1627.1	1363.9	1146.7	965.0	804.1	657.9	545.1	401.0
30°	2913.7	2483.4	2080.3	1727.3	1432.8	1194.7	1000.5	833.4	683.0	559.8	417.7
27.5°	3070.3	2629.6	2205.6	1821.3	1497.6	1238.6	1038.1	860.5	703.9	574.4	432.3
25°	3212.3	2761.2	2320.5	1906.9	1556.0	1286.6	1073.6	887.7	722.7	586.9	444.9
22.5°	3346.0	2882.3	2424.9	1992.6	1627.1	1334.6	1107.0	912.7	741.5	599.4	457.4
20°	3463.0	2993.0	2525.2	2078.2	1689.7	1378.5	1136.2	935.7	758.2	607.8	469.9
17.5°	3557.0	3091.2	2615.0	2153.4	1744.0	1416.1	1161.3	956.6	772.8	618.2	478.3
15°	3640.5	3174.7	2690.2	2218.1	1792.1	1447.4	1184.3	973.3	785.3	624.5	488.7
12.5°	3711.5	3245.8	2754.9	2274.5	1833.8	1474.6	1203.1	985.8	795.8	630.8	495.0
10°	3770.0	3302.1	2809.2	2318.4	1867.2	1495.5	1217.7	998.4	804.1	637.0	501.3
7.5°	3813.9	3343.9	2848.9	2356.0	1894.4	1510.1	1230.2	1006.7	812.5	641.2	511.7
5°	3847.3	3379.4	2880.2	2381.1	1915.3	1531.0	1244.8	1017.2	820.8	645.4	511.7
2.5°	3872.3	3408.7	2905.3	2401.9	1932.0	1526.8	1244.8	1015.1	820.8	645.4	509.6
0°	3868.2	3410.8	2903.2	2401.9	1932.0	1522.6	1244.8	1013.0	820.8	645.4	509.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.6	10.4	4.2	0.0
85°	31.3	20.9	10.4	0.0
82.5°	46.0	29.2	14.6	0.0
80°	60.6	39.7	18.8	0.0
77.5°	77.3	50.1	25.1	0.0
75°	91.9	58.5	29.2	0.0
72.5°	106.5	68.9	33.4	0.0
70°	119.1	77.3	37.6	0.0
67.5°	131.6	87.7	43.9	0.0
65°	142.0	96.1	48.0	0.0
62.5°	150.4	106.5	52.2	0.0
60°	160.8	114.9	56.4	0.0
57.5°	169.2	121.1	60.6	0.0
55°	177.5	125.3	64.7	0.0
52.5°	185.9	131.6	68.9	0.0
50°	194.2	137.9	73.1	0.0
47.5°	202.6	142.0	75.2	0.0
45°	215.1	148.3	79.4	0.0
42.5°	225.6	152.5	83.5	0.0
40°	236.0	156.6	85.6	0.0
37.5°	246.5	160.8	89.8	0.0
35°	256.9	165.0	91.9	0.0
32.5°	265.3	169.2	94.0	0.0
30°	273.6	173.4	96.1	0.0
27.5°	282.0	175.4	98.2	0.0
25°	288.2	179.6	100.3	0.0
22.5°	294.5	181.7	102.3	0.0
20°	298.7	183.8	104.4	0.0
17.5°	304.9	185.9	106.5	0.0
15°	307.0	188.0	110.7	0.0
12.5°	311.2	190.1	110.7	0.0
10°	313.3	192.2	110.7	0.0
7.5°	317.5	192.2	110.7	0.0
5°	315.4	192.2	110.7	0.0
2.5°	315.4	192.2	110.7	0.0
0°	313.3	192.2	110.7	0.0

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