

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: P628259

Luminaire Tested: **IFLD-L-SA7C-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628259
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

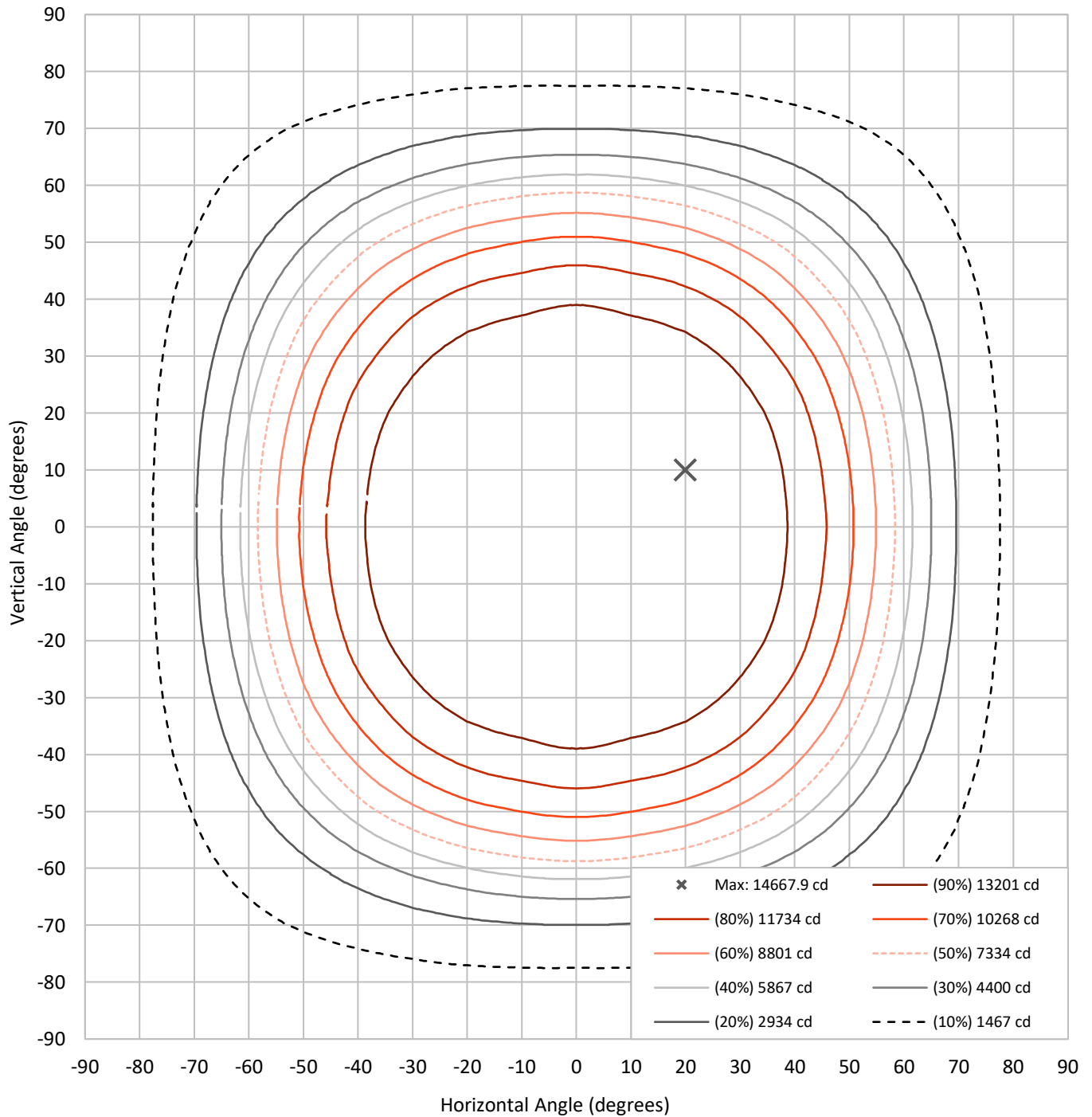
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	44999 lumens	Max Intensity:	14667.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	121.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	27612.3 lumens	Field Lumens:	33102.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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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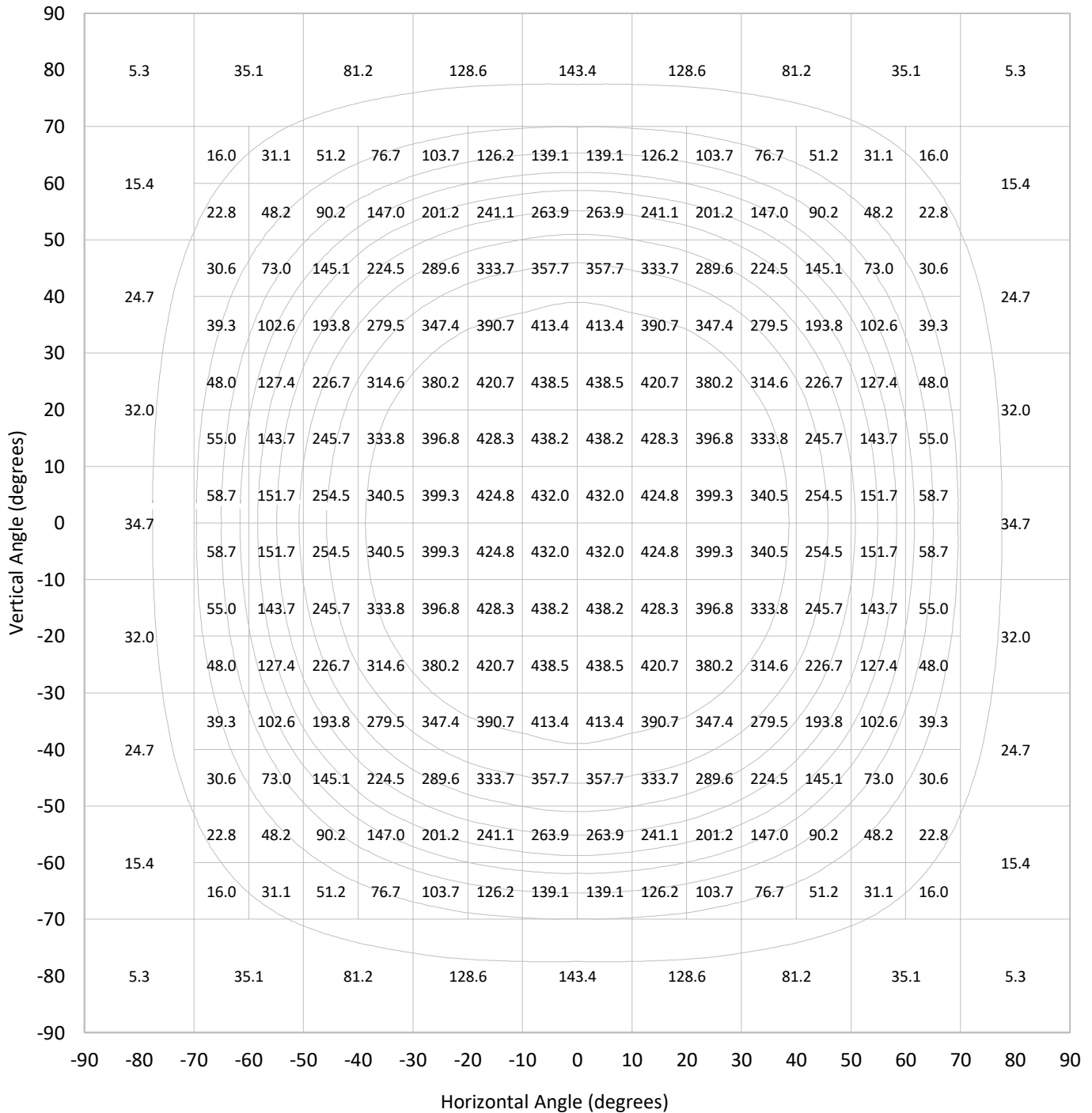
Iso-Candela Plot





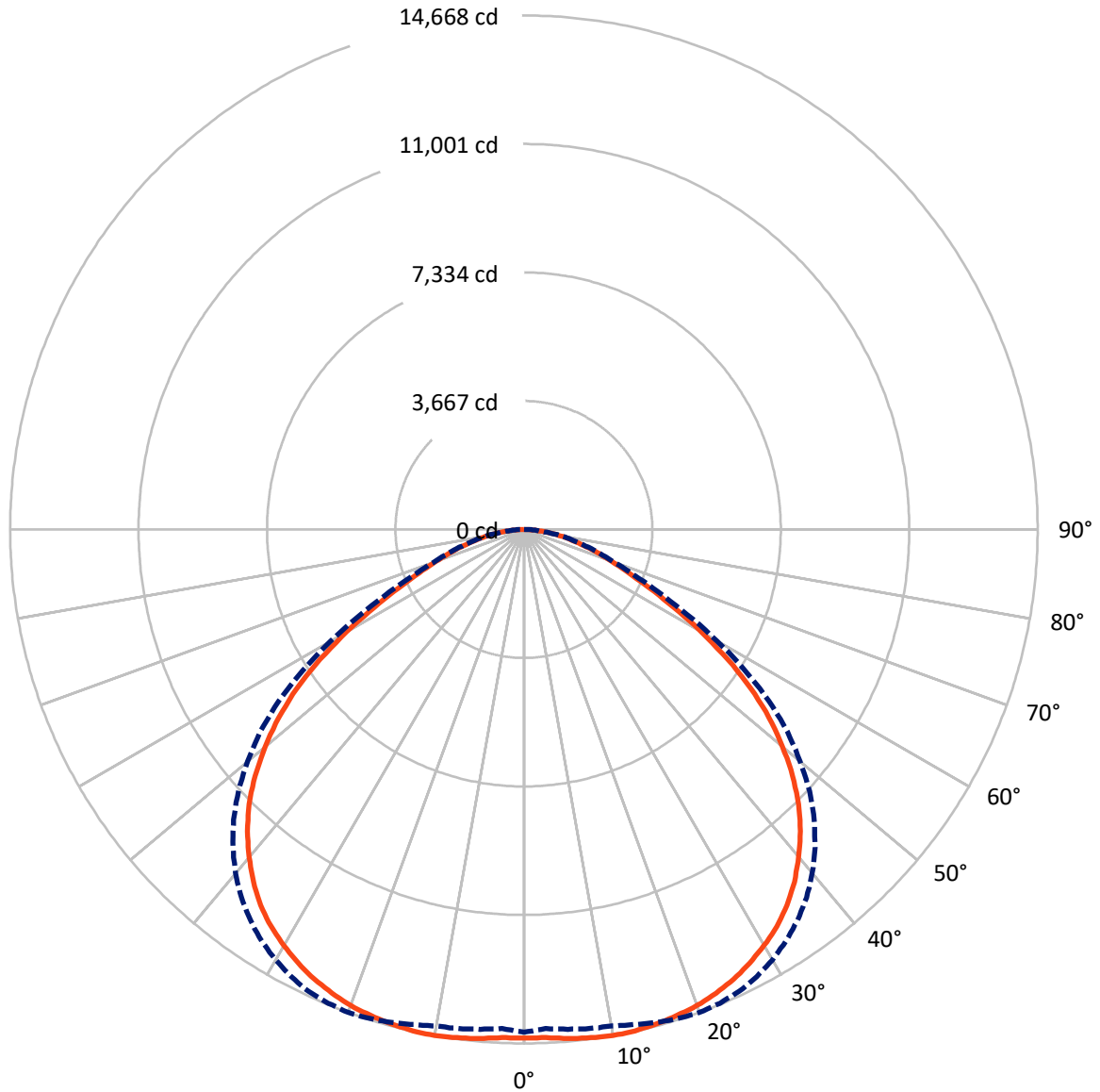
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Lumen Table



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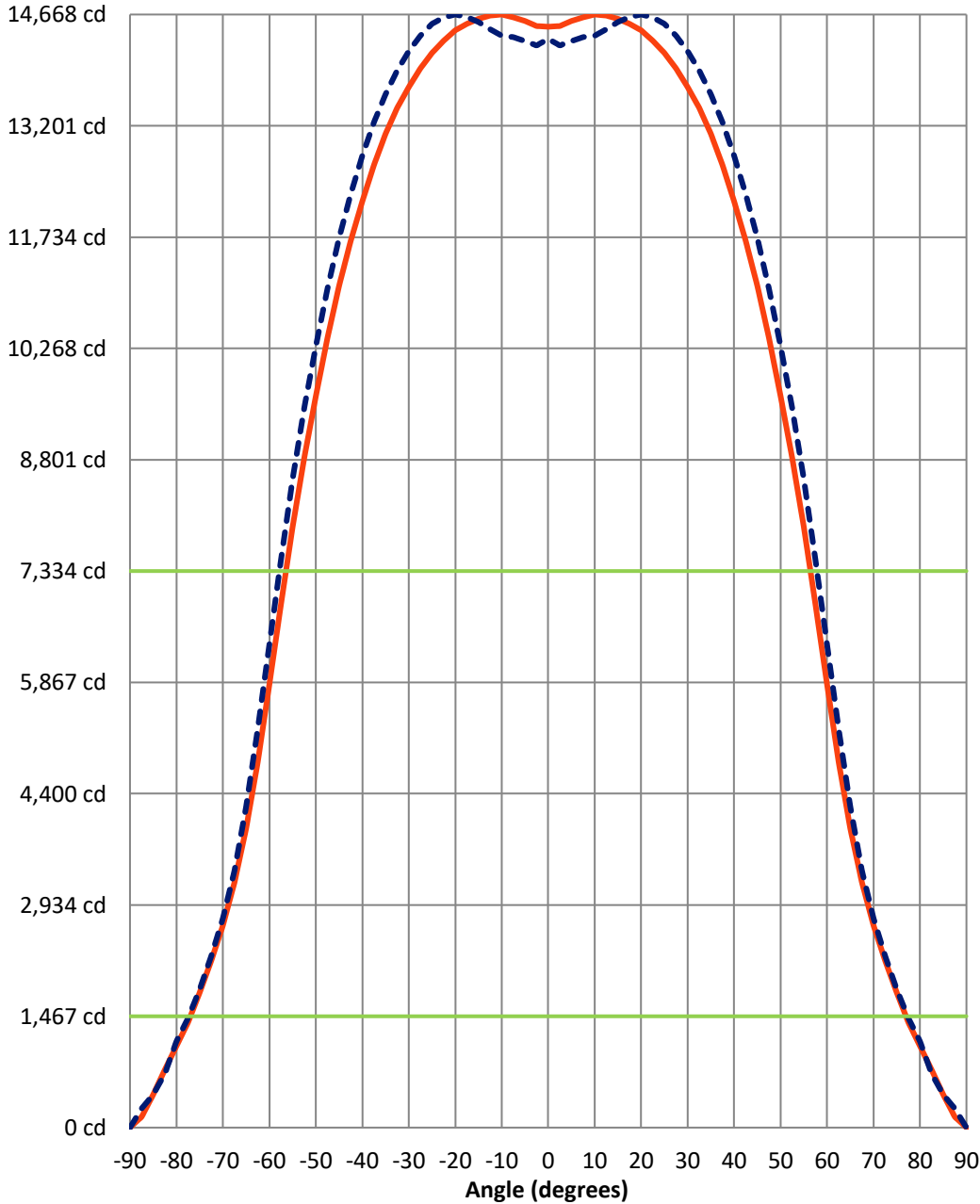
Luminous Intensity Polar Plot



— 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: 27612.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 33102.5
 Efficiency: 73.6%

Spill:
 Lumens: 11896.5
 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°	118.4	127.8	132.6	137.3	142.0	146.8	151.5	146.8	142.0	142.0	137.3
85°	317.2	326.7	331.4	364.6	397.7	416.6	440.3	435.6	435.6	430.9	426.1
82.5°	634.4	662.8	686.5	719.7	738.6	767.0	785.9	771.7	762.3	743.3	729.1
80°	1126.8	1136.3	1141.0	1145.8	1122.1	1117.4	1107.9	1093.7	1074.8	1051.1	1027.4
77.5°	1434.6	1444.1	1453.5	1444.1	1439.3	1434.6	1420.4	1406.2	1387.2	1368.3	1339.9
75°	1898.6	1898.6	1898.6	1884.4	1874.9	1860.7	1837.0	1813.4	1780.2	1742.3	1699.7
72.5°	2391.0	2386.2	2381.5	2353.1	2329.4	2301.0	2267.9	2239.5	2201.6	2159.0	2102.2
70°	2907.1	2916.5	2921.3	2883.4	2855.0	2817.1	2774.5	2722.4	2665.6	2604.0	2523.6
67.5°	3617.3	3607.8	3598.3	3546.2	3508.4	3456.3	3394.7	3319.0	3233.7	3139.1	3025.4
65°	4497.9	4512.1	4483.7	4431.6	4360.6	4275.4	4180.7	4071.8	3943.9	3801.9	3640.9
62.5°	5563.2	5586.9	5553.7	5487.4	5397.5	5283.8	5151.3	4995.0	4819.8	4621.0	4422.1
60°	6775.2	6770.5	6709.0	6619.0	6500.6	6358.6	6211.8	6041.4	5842.5	5610.5	5369.1
57.5°	7887.9	7878.4	7802.7	7712.7	7594.3	7442.8	7286.6	7106.7	6898.3	6652.1	6372.8
55°	8886.9	8877.4	8801.7	8707.0	8583.9	8432.4	8290.3	8119.9	7916.3	7655.9	7357.6
52.5°	9772.3	9777.0	9710.7	9606.5	9474.0	9327.2	9189.9	9019.5	8825.3	8564.9	8276.1
50°	10586.6	10581.9	10510.9	10416.2	10293.1	10151.0	10013.7	9843.3	9639.7	9388.8	9109.4
47.5°	11344.2	11334.7	11254.2	11150.0	11022.2	10899.1	10771.3	10619.8	10406.7	10155.8	9876.4
45°	11978.6	11959.7	11879.2	11779.7	11656.6	11547.7	11434.1	11320.5	11093.2	10861.2	10596.1
42.5°	12523.1	12518.3	12437.8	12338.4	12215.3	12120.6	12016.5	11874.4	11685.0	11472.0	11211.6
40°	13043.9	13006.0	12925.5	12830.8	12717.2	12636.7	12532.5	12390.5	12205.9	11997.5	11746.6
37.5°	13432.1	13436.9	13351.6	13247.5	13148.0	13072.3	12977.6	12845.0	12684.1	12480.5	12229.5
35°	13801.4	13777.7	13706.7	13616.8	13526.8	13441.6	13342.2	13228.5	13096.0	12906.6	12669.8
32.5°	14042.9	14076.0	13990.8	13896.1	13844.0	13777.7	13673.6	13555.2	13436.9	13247.5	13034.4
30°	14308.0	14279.6	14213.3	14132.8	14095.0	14052.4	13962.4	13848.8	13711.5	13541.0	13342.2
27.5°	14492.7	14478.5	14398.0	14322.2	14303.3	14265.4	14194.4	14095.0	13957.7	13792.0	13607.3
25°	14573.2	14582.6	14506.9	14464.3	14464.3	14440.6	14383.8	14298.6	14161.3	14009.7	13829.8
22.5°	14611.0	14601.6	14549.5	14540.0	14563.7	14544.8	14521.1	14445.3	14322.2	14199.1	14047.6
20°	14634.7	14568.4	14521.1	14559.0	14587.4	14582.6	14563.7	14516.3	14459.5	14355.4	14222.8
17.5°	14582.6	14540.0	14483.2	14540.0	14601.6	14606.3	14587.4	14559.0	14544.8	14478.5	14360.1
15°	14454.8	14421.7	14431.1	14487.9	14559.0	14582.6	14596.8	14630.0	14611.0	14559.0	14454.8
12.5°	14369.6	14327.0	14369.6	14426.4	14464.3	14478.5	14592.1	14653.7	14653.7	14606.3	14540.0
10°	14345.9	14260.7	14317.5	14369.6	14388.5	14473.7	14568.4	14634.7	14667.9	14630.0	14544.8
7.5°	14298.6	14241.7	14265.4	14289.1	14398.0	14459.5	14511.6	14582.6	14630.0	14625.2	14549.5
5°	14274.9	14203.9	14213.3	14312.8	14388.5	14431.1	14450.1	14511.6	14582.6	14596.8	14540.0
2.5°	14213.3	14180.2	14251.2	14260.7	14317.5	14350.6	14369.6	14426.4	14516.3	14549.5	14525.8
0°	14180.2	14132.8	14085.5	14123.4	14218.1	14289.1	14317.5	14402.7	14506.9	14540.0	14487.9



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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°	132.6	127.8	123.1	118.4	123.1	123.1	123.1	118.4	123.1	118.4	118.4
85°	411.9	393.0	378.8	359.8	340.9	326.7	307.8	288.8	284.1	279.3	269.9
82.5°	710.2	686.5	662.8	634.4	606.0	572.9	539.7	501.9	492.4	482.9	468.7
80°	999.0	965.9	932.7	899.6	871.2	838.0	800.2	757.5	729.1	705.5	677.1
77.5°	1302.0	1254.7	1207.3	1150.5	1117.4	1084.2	1046.4	1003.7	961.1	923.3	880.6
75°	1647.6	1595.6	1548.2	1491.4	1429.9	1368.3	1306.8	1249.9	1188.4	1131.6	1074.8
72.5°	2031.2	1955.4	1879.6	1808.6	1732.9	1657.1	1576.6	1500.9	1425.1	1349.4	1268.9
70°	2433.6	2338.9	2244.2	2149.5	2050.1	1950.7	1856.0	1761.3	1666.6	1567.2	1477.2
67.5°	2907.1	2798.2	2675.1	2542.5	2395.7	2267.9	2144.8	2031.2	1917.5	1803.9	1690.3
65°	3498.9	3347.4	3181.7	3001.7	2831.3	2660.9	2480.9	2310.5	2177.9	2045.4	1917.5
62.5°	4228.0	4015.0	3783.0	3551.0	3342.6	3120.1	2911.8	2689.3	2480.9	2291.6	2135.3
60°	5099.2	4810.4	4526.3	4228.0	3939.2	3636.2	3371.1	3096.4	2836.0	2604.0	2376.8
57.5°	6060.3	5724.2	5383.3	5018.7	4625.7	4270.6	3910.8	3551.0	3243.2	2935.5	2679.8
55°	7035.6	6680.6	6297.0	5885.1	5454.3	4999.8	4512.1	4109.7	3688.3	3328.4	2997.0
52.5°	7963.6	7594.3	7196.6	6817.9	6301.8	5781.0	5246.0	4715.7	4223.3	3764.0	3361.6
50°	8792.2	8432.4	8048.9	7608.5	7130.3	6576.4	5979.8	5383.3	4800.9	4261.2	3759.3
47.5°	9549.7	9199.4	8815.9	8375.5	7940.0	7324.5	6723.2	6065.0	5416.4	4796.2	4209.1
45°	10259.9	9904.8	9507.1	9085.7	8583.9	8034.7	7414.4	6751.6	6055.6	5359.6	4682.5
42.5°	10903.8	10548.7	10146.3	9710.7	9213.6	8669.1	8067.8	7400.2	6699.5	5941.9	5198.6
40°	11467.3	11121.6	10733.4	10278.9	9814.9	9242.0	8650.2	8015.7	7291.3	6529.0	5710.0
37.5°	11959.7	11637.7	11254.2	10804.4	10312.0	9800.7	9189.9	8555.5	7902.1	7073.5	6235.5
35°	12395.2	12097.0	11704.0	11277.9	10794.9	10255.2	9682.3	9062.1	8356.6	7580.1	6765.8
32.5°	12774.0	12471.0	12111.2	11685.0	11216.3	10709.7	10122.6	9497.7	8830.1	8039.4	7154.0
30°	13096.0	12802.4	12461.5	12059.1	11609.3	11107.4	10534.5	9904.8	9223.0	8437.1	7561.2
27.5°	13375.3	13096.0	12764.5	12390.5	11959.7	11476.7	10899.1	10264.7	9568.7	8811.1	7935.2
25°	13616.8	13346.9	13039.1	12684.1	12257.9	11784.5	11240.0	10577.1	9881.2	9118.9	8252.4
22.5°	13834.6	13574.2	13266.4	12920.8	12532.5	12059.1	11509.9	10851.8	10146.3	9393.5	8541.3
20°	14028.7	13787.2	13484.2	13129.1	12740.9	12262.7	11718.2	11093.2	10383.0	9644.4	8801.7
17.5°	14184.9	13971.9	13668.9	13294.8	12906.6	12442.6	11912.3	11339.4	10586.6	9857.5	9019.5
15°	14293.8	14085.5	13810.9	13432.1	13053.4	12594.1	12063.8	11472.0	10771.3	10027.9	9199.4
12.5°	14369.6	14147.0	13891.4	13541.0	13162.2	12707.7	12191.6	11609.3	10927.5	10179.4	9355.6
10°	14388.5	14184.9	13929.3	13616.8	13247.5	12807.2	12300.5	11722.9	11055.3	10297.8	9483.4
7.5°	14398.0	14203.9	13971.9	13673.6	13309.0	12882.9	12381.0	11812.9	11150.0	10397.2	9578.1
5°	14393.2	14208.6	14000.3	13711.5	13346.9	12925.5	12433.1	11874.4	11216.3	10463.5	9649.2
2.5°	14379.0	14213.3	14019.2	13739.9	13389.5	12972.9	12485.2	11945.4	11287.3	10520.3	9706.0
0°	14416.9	14274.9	14028.7	13730.4	13399.0	12972.9	12480.5	11954.9	11296.8	10515.6	9701.2



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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°	118.4	113.6	113.6	108.9	104.2	99.4	90.0	85.2	75.8	61.6	47.3
85°	255.7	241.5	227.3	217.8	208.3	198.9	184.7	170.4	151.5	123.1	94.7
82.5°	449.8	421.4	393.0	359.8	331.4	303.0	279.3	255.7	227.3	184.7	142.0
80°	643.9	601.3	558.7	511.3	468.7	421.4	378.8	340.9	303.0	246.2	189.4
77.5°	838.0	781.2	719.7	662.8	601.3	539.7	478.2	426.1	369.3	303.0	236.7
75°	1017.9	951.7	894.8	814.4	738.6	658.1	577.6	506.6	435.6	355.1	284.1
72.5°	1197.9	1112.6	1032.1	956.4	871.2	771.7	681.8	591.8	501.9	407.2	322.0
70°	1377.8	1273.6	1174.2	1084.2	989.5	890.1	781.2	677.1	568.2	454.5	355.1
67.5°	1562.4	1444.1	1330.4	1216.8	1107.9	994.3	880.6	762.3	634.4	501.9	393.0
65°	1766.0	1619.2	1481.9	1354.1	1226.3	1103.2	975.3	847.5	705.5	554.0	426.1
62.5°	1969.6	1808.6	1647.6	1486.7	1344.6	1207.3	1070.0	928.0	771.7	610.8	459.3
60°	2187.4	2002.7	1818.1	1638.2	1463.0	1311.5	1160.0	1008.5	842.8	662.8	492.4
57.5°	2428.9	2206.3	1998.0	1794.4	1595.6	1415.7	1249.9	1089.0	904.3	714.9	530.3
55°	2703.5	2428.9	2182.7	1955.4	1737.6	1519.8	1339.9	1174.2	975.3	767.0	572.9
52.5°	2992.3	2675.1	2376.8	2121.1	1889.1	1642.9	1425.1	1240.5	1046.4	819.1	610.8
50°	3328.4	2926.0	2594.6	2282.1	2021.7	1766.0	1515.1	1316.2	1117.4	880.6	648.6
47.5°	3674.1	3229.0	2812.4	2471.5	2163.7	1884.4	1619.2	1382.5	1183.7	937.5	686.5
45°	4076.5	3517.8	3058.6	2656.1	2301.0	2007.5	1723.4	1453.5	1240.5	994.3	724.4
42.5°	4464.7	3858.7	3314.2	2859.7	2457.3	2125.8	1818.1	1529.3	1297.3	1051.1	757.5
40°	4924.0	4199.6	3560.4	3053.8	2613.5	2239.5	1912.8	1609.8	1349.4	1103.2	790.7
37.5°	5364.3	4545.2	3858.7	3266.9	2765.0	2353.1	2007.5	1685.5	1396.7	1155.2	833.3
35°	5799.9	4928.7	4142.8	3465.7	2921.3	2480.9	2102.2	1756.5	1444.1	1197.9	871.2
32.5°	6216.6	5288.6	4431.6	3688.3	3091.7	2599.3	2187.4	1822.8	1491.4	1235.7	909.0
30°	6604.8	5629.5	4715.7	3915.5	3248.0	2708.2	2267.9	1889.1	1548.2	1268.9	946.9
27.5°	6959.9	5960.9	4999.8	4128.6	3394.7	2807.6	2353.1	1950.7	1595.6	1302.0	980.1
25°	7281.8	6259.2	5260.2	4322.7	3527.3	2916.5	2433.6	2012.2	1638.2	1330.4	1008.5
22.5°	7584.9	6533.8	5496.9	4516.8	3688.3	3025.4	2509.3	2069.0	1680.8	1358.8	1036.9
20°	7850.0	6784.7	5724.2	4710.9	3830.3	3124.9	2575.6	2121.1	1718.7	1377.8	1065.3
17.5°	8063.1	7007.2	5927.7	4881.4	3953.4	3210.1	2632.4	2168.5	1751.8	1401.4	1084.2
15°	8252.4	7196.6	6098.2	5028.2	4062.3	3281.1	2684.5	2206.3	1780.2	1415.7	1107.9
12.5°	8413.4	7357.6	6245.0	5156.0	4157.0	3342.6	2727.1	2234.7	1803.9	1429.9	1122.1
10°	8546.0	7485.4	6368.1	5255.4	4232.8	3390.0	2760.3	2263.1	1822.8	1444.1	1136.3
7.5°	8645.4	7580.1	6458.0	5340.7	4294.3	3423.1	2788.7	2282.1	1841.8	1453.5	1160.0
5°	8721.2	7660.6	6529.0	5397.5	4341.6	3470.5	2821.8	2305.8	1860.7	1463.0	1160.0
2.5°	8778.0	7726.9	6585.9	5444.8	4379.5	3461.0	2821.8	2301.0	1860.7	1463.0	1155.2
0°	8768.5	7731.6	6581.1	5444.8	4379.5	3451.5	2821.8	2296.3	1860.7	1463.0	1155.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	33.1	23.7	9.5	0.0
85°	71.0	47.3	23.7	0.0
82.5°	104.2	66.3	33.1	0.0
80°	137.3	90.0	42.6	0.0
77.5°	175.2	113.6	56.8	0.0
75°	208.3	132.6	66.3	0.0
72.5°	241.5	156.2	75.8	0.0
70°	269.9	175.2	85.2	0.0
67.5°	298.3	198.9	99.4	0.0
65°	322.0	217.8	108.9	0.0
62.5°	340.9	241.5	118.4	0.0
60°	364.6	260.4	127.8	0.0
57.5°	383.5	274.6	137.3	0.0
55°	402.4	284.1	146.8	0.0
52.5°	421.4	298.3	156.2	0.0
50°	440.3	312.5	165.7	0.0
47.5°	459.3	322.0	170.4	0.0
45°	487.7	336.2	179.9	0.0
42.5°	511.3	345.6	189.4	0.0
40°	535.0	355.1	194.1	0.0
37.5°	558.7	364.6	203.6	0.0
35°	582.4	374.0	208.3	0.0
32.5°	601.3	383.5	213.1	0.0
30°	620.2	393.0	217.8	0.0
27.5°	639.2	397.7	222.5	0.0
25°	653.4	407.2	227.3	0.0
22.5°	667.6	411.9	232.0	0.0
20°	677.1	416.6	236.7	0.0
17.5°	691.3	421.4	241.5	0.0
15°	696.0	426.1	250.9	0.0
12.5°	705.5	430.9	250.9	0.0
10°	710.2	435.6	250.9	0.0
7.5°	719.7	435.6	250.9	0.0
5°	714.9	435.6	250.9	0.0
2.5°	714.9	435.6	250.9	0.0
0°	710.2	435.6	250.9	0.0

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