

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: P628394

Luminaire Tested: **IFLD-S-SA6C-830-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628394  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

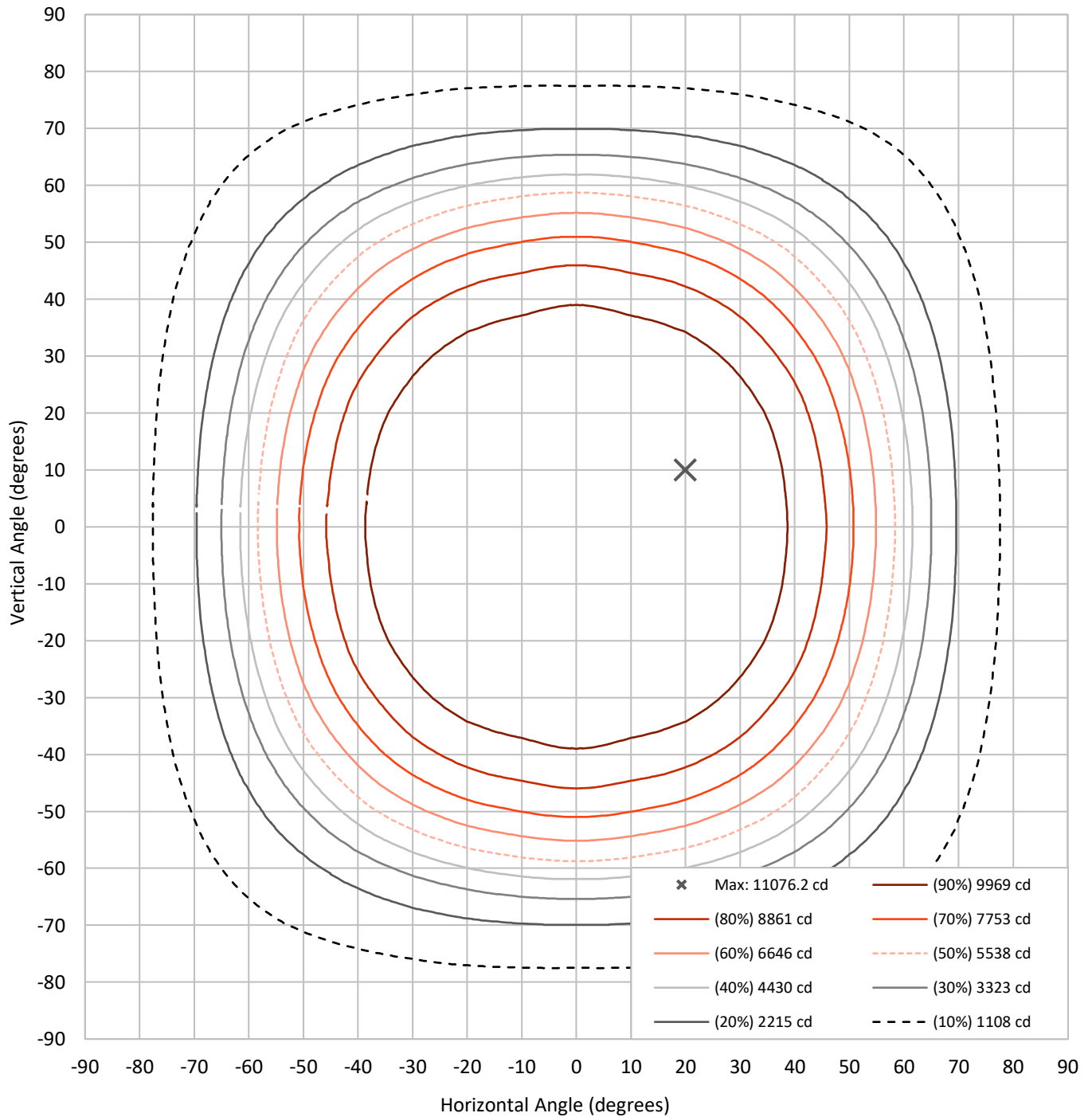
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33980.2 lumens	Max Intensity:	11076.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	105.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20851 lumens	Field Lumens:	24996.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5  
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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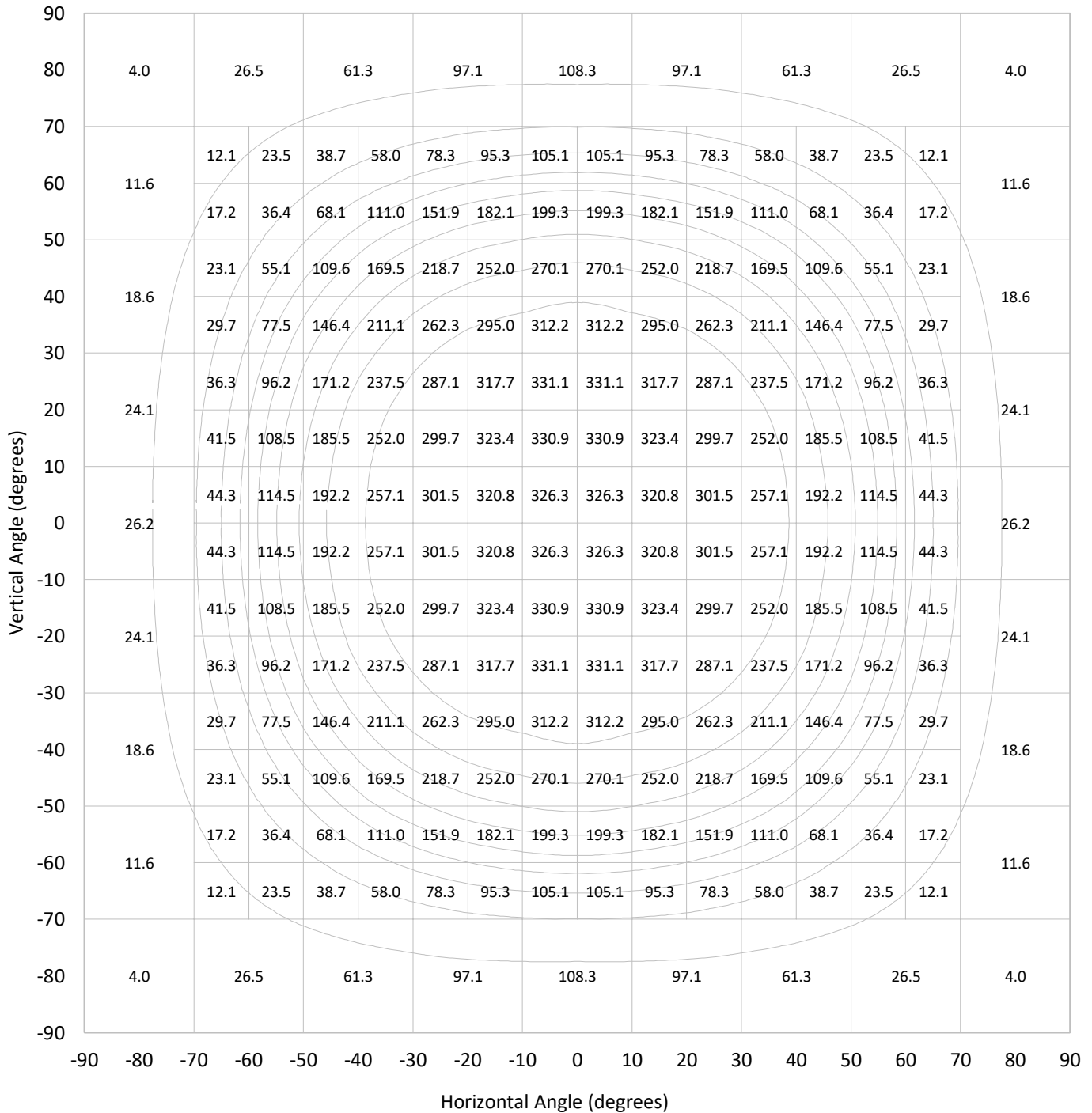
### Iso-Candela Plot





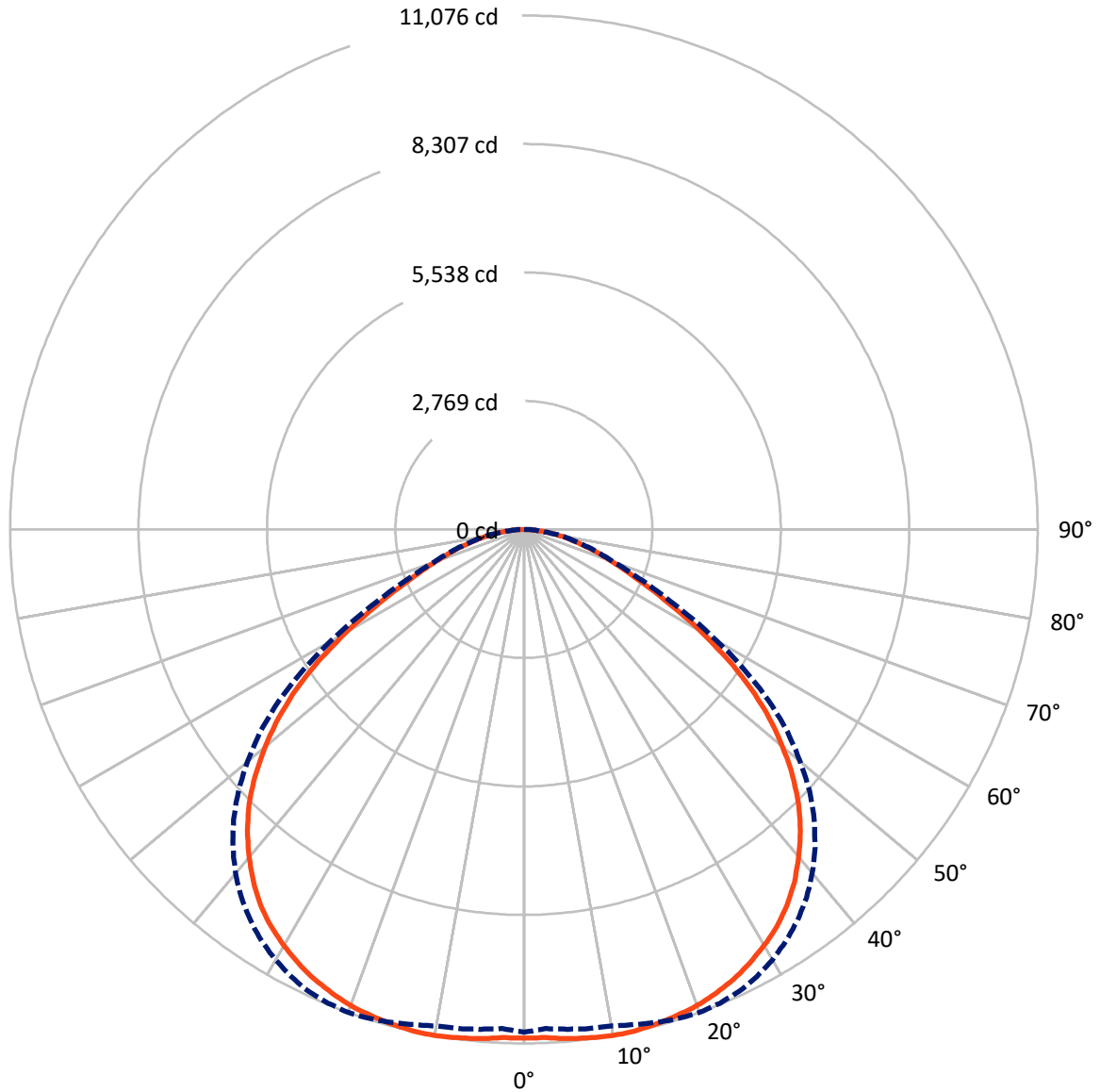
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### Lumen Table



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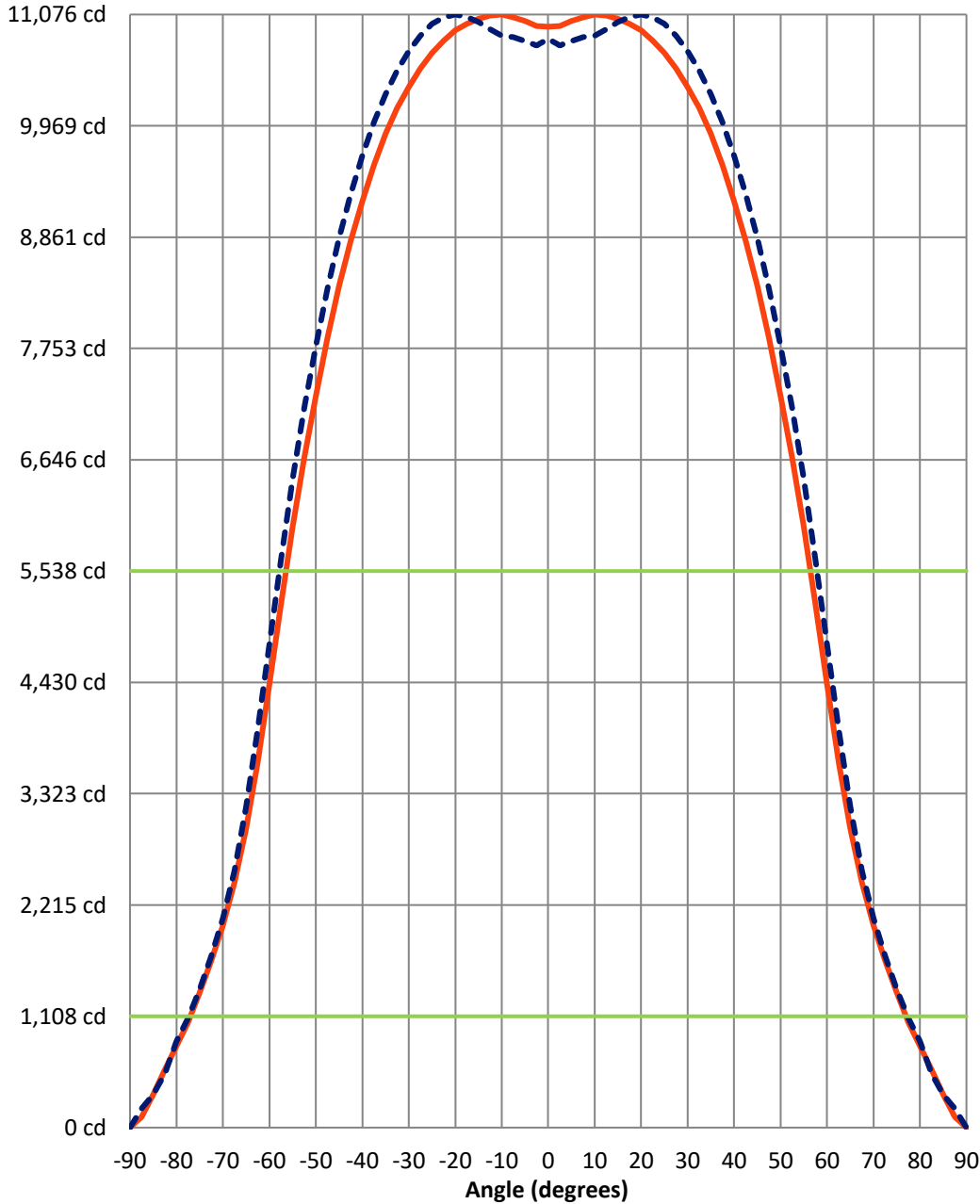
### Luminous Intensity Polar Plot



— 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: 20851  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 24996.8  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8983.5  
 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°	89.4	96.5	100.1	103.7	107.3	110.8	114.4	110.8	107.3	107.3	103.7
85°	239.5	246.7	250.3	275.3	300.3	314.6	332.5	328.9	328.9	325.3	321.8
82.5°	479.1	500.5	518.4	543.4	557.7	579.2	593.5	582.8	575.6	561.3	550.6
80°	850.9	858.1	861.6	865.2	847.3	843.8	836.6	825.9	811.6	793.7	775.8
77.5°	1083.3	1090.5	1097.6	1090.5	1086.9	1083.3	1072.6	1061.9	1047.6	1033.3	1011.8
75°	1433.7	1433.7	1433.7	1423.0	1415.8	1405.1	1387.2	1369.3	1344.3	1315.7	1283.5
72.5°	1805.5	1801.9	1798.4	1776.9	1759.0	1737.6	1712.6	1691.1	1662.5	1630.3	1587.4
70°	2195.2	2202.4	2205.9	2177.3	2155.9	2127.3	2095.1	2055.8	2012.9	1966.4	1905.6
67.5°	2731.5	2724.4	2717.2	2677.9	2649.3	2609.9	2563.5	2506.3	2441.9	2370.4	2284.6
65°	3396.5	3407.2	3385.8	3346.5	3292.8	3228.5	3157.0	3074.7	2978.2	2870.9	2749.4
62.5°	4200.9	4218.8	4193.8	4143.7	4075.8	3990.0	3889.9	3771.9	3639.6	3489.5	3339.3
60°	5116.2	5112.6	5066.2	4998.2	4908.8	4801.6	4690.8	4562.0	4411.9	4236.7	4054.4
57.5°	5956.4	5949.2	5892.0	5824.1	5734.7	5620.3	5502.3	5366.5	5209.2	5023.3	4812.3
55°	6710.8	6703.6	6646.4	6574.9	6482.0	6367.6	6260.3	6131.6	5977.8	5781.2	5556.0
52.5°	7379.4	7382.9	7332.9	7254.2	7154.1	7043.3	6939.6	6810.9	6664.3	6467.7	6249.6
50°	7994.3	7990.7	7937.1	7865.6	7772.6	7665.4	7561.7	7433.0	7279.2	7089.8	6878.8
47.5°	8566.3	8559.2	8498.4	8419.8	8323.2	8230.3	8133.7	8019.3	7858.4	7669.0	7458.0
45°	9045.4	9031.1	8970.3	8895.3	8802.3	8720.1	8634.3	8548.5	8376.9	8201.7	8001.5
42.5°	9456.6	9453.0	9392.2	9317.2	9224.2	9152.7	9074.0	8966.8	8823.8	8662.9	8466.2
40°	9849.9	9821.3	9760.5	9689.0	9603.2	9542.4	9463.7	9356.5	9217.0	9059.7	8870.2
37.5°	10143.0	10146.6	10082.3	10003.6	9928.5	9871.3	9799.8	9699.7	9578.1	9424.4	9234.9
35°	10421.9	10404.0	10350.4	10282.5	10214.5	10150.2	10075.1	9989.3	9889.2	9746.2	9567.4
32.5°	10604.2	10629.3	10564.9	10493.4	10454.1	10404.0	10325.4	10236.0	10146.6	10003.6	9842.7
30°	10804.5	10783.0	10733.0	10672.2	10643.6	10611.4	10543.5	10457.7	10354.0	10225.3	10075.1
27.5°	10943.9	10933.2	10872.4	10815.2	10800.9	10772.3	10718.7	10643.6	10539.9	10414.8	10275.3
25°	11004.7	11011.8	10954.6	10922.4	10922.4	10904.6	10861.7	10797.3	10693.6	10579.2	10443.4
22.5°	11033.3	11026.1	10986.8	10979.7	10997.5	10983.2	10965.3	10908.1	10815.2	10722.2	10607.8
20°	11051.2	11001.1	10965.3	10994.0	11015.4	11011.8	10997.5	10961.8	10918.9	10840.2	10740.1
17.5°	11011.8	10979.7	10936.7	10979.7	11026.1	11029.7	11015.4	10994.0	10983.2	10933.2	10843.8
15°	10915.3	10890.3	10897.4	10940.3	10994.0	11011.8	11022.6	11047.6	11033.3	10994.0	10915.3
12.5°	10850.9	10818.8	10850.9	10893.8	10922.4	10933.2	11019.0	11065.5	11065.5	11029.7	10979.7
10°	10833.1	10768.7	10811.6	10850.9	10865.2	10929.6	11001.1	11051.2	11076.2	11047.6	10983.2
7.5°	10797.3	10754.4	10772.3	10790.2	10872.4	10918.9	10958.2	11011.8	11047.6	11044.0	10986.8
5°	10779.4	10725.8	10733.0	10808.0	10865.2	10897.4	10911.7	10958.2	11011.8	11022.6	10979.7
2.5°	10733.0	10707.9	10761.6	10768.7	10811.6	10836.6	10850.9	10893.8	10961.8	10986.8	10968.9
0°	10707.9	10672.2	10636.4	10665.0	10736.5	10790.2	10811.6	10876.0	10954.6	10979.7	10940.3



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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°	100.1	96.5	93.0	89.4	93.0	93.0	93.0	89.4	93.0	89.4	89.4
85°	311.0	296.7	286.0	271.7	257.4	246.7	232.4	218.1	214.5	210.9	203.8
82.5°	536.3	518.4	500.5	479.1	457.6	432.6	407.6	379.0	371.8	364.7	354.0
80°	754.4	729.4	704.3	679.3	657.8	632.8	604.2	572.0	550.6	532.7	511.3
77.5°	983.2	947.4	911.7	868.8	843.8	818.7	790.1	758.0	725.8	697.2	665.0
75°	1244.2	1204.9	1169.1	1126.2	1079.7	1033.3	986.8	943.9	897.4	854.5	811.6
72.5°	1533.8	1476.6	1419.4	1365.8	1308.5	1251.3	1190.6	1133.4	1076.2	1019.0	958.2
70°	1837.7	1766.2	1694.7	1623.2	1548.1	1473.0	1401.5	1330.0	1258.5	1183.4	1115.5
67.5°	2195.2	2113.0	2020.0	1919.9	1809.1	1712.6	1619.6	1533.8	1448.0	1362.2	1276.4
65°	2642.1	2527.7	2402.6	2266.7	2138.0	2009.3	1873.4	1744.7	1644.6	1544.5	1448.0
62.5°	3192.7	3031.8	2856.6	2681.5	2524.1	2356.1	2198.8	2030.8	1873.4	1730.4	1612.4
60°	3850.6	3632.5	3418.0	3192.7	2974.6	2745.8	2545.6	2338.2	2141.6	1966.4	1794.8
57.5°	4576.3	4322.5	4065.1	3789.8	3493.0	3224.9	2953.2	2681.5	2449.1	2216.7	2023.6
55°	5312.8	5044.7	4755.1	4444.1	4118.7	3775.5	3407.2	3103.3	2785.1	2513.4	2263.1
52.5°	6013.6	5734.7	5434.4	5148.4	4758.7	4365.4	3961.4	3561.0	3189.1	2842.3	2538.4
50°	6639.3	6367.6	6078.0	5745.5	5384.4	4966.0	4515.6	4065.1	3625.3	3217.7	2838.8
47.5°	7211.3	6946.7	6657.2	6324.7	5995.7	5530.9	5076.9	4579.9	4090.1	3621.7	3178.4
45°	7747.6	7479.5	7179.1	6860.9	6482.0	6067.2	5598.9	5098.3	4572.8	4047.2	3535.9
42.5°	8233.8	7965.7	7661.8	7332.9	6957.5	6546.3	6092.3	5588.1	5059.0	4487.0	3925.6
40°	8659.3	8398.3	8105.1	7761.9	7411.5	6978.9	6532.0	6052.9	5505.9	4930.3	4311.8
37.5°	9031.1	8788.0	8498.4	8158.8	7786.9	7400.8	6939.6	6460.5	5967.1	5341.5	4708.6
35°	9360.1	9134.8	8838.1	8516.3	8151.6	7744.0	7311.4	6843.1	6310.3	5724.0	5109.1
32.5°	9646.1	9417.3	9145.5	8823.8	8469.8	8087.3	7643.9	7172.0	6667.9	6070.8	5402.2
30°	9889.2	9667.5	9410.1	9106.2	8766.6	8387.6	7955.0	7479.5	6964.6	6371.1	5709.7
27.5°	10100.1	9889.2	9638.9	9356.5	9031.1	8666.5	8230.3	7751.2	7225.6	6653.6	5992.2
25°	10282.5	10078.7	9846.3	9578.1	9256.4	8898.8	8487.7	7987.2	7461.6	6886.0	6231.7
22.5°	10446.9	10250.3	10017.9	9756.9	9463.7	9106.2	8691.5	8194.5	7661.8	7093.3	6449.8
20°	10593.5	10411.2	10182.4	9914.2	9621.0	9259.9	8848.8	8376.9	7840.6	7282.8	6646.4
17.5°	10711.5	10550.6	10321.8	10039.4	9746.2	9395.8	8995.4	8562.8	7994.3	7443.7	6810.9
15°	10793.7	10636.4	10429.1	10143.0	9857.0	9510.2	9109.8	8662.9	8133.7	7572.4	6946.7
12.5°	10850.9	10682.9	10489.8	10225.3	9939.2	9596.0	9206.3	8766.6	8251.7	7686.8	7064.7
10°	10865.2	10711.5	10518.4	10282.5	10003.6	9671.1	9288.5	8852.4	8348.3	7776.2	7161.3
7.5°	10872.4	10725.8	10550.6	10325.4	10050.1	9728.3	9349.3	8920.3	8419.8	7851.3	7232.8
5°	10868.8	10729.4	10572.1	10354.0	10078.7	9760.5	9388.7	8966.8	8469.8	7901.3	7286.4
2.5°	10858.1	10733.0	10586.4	10375.4	10110.9	9796.2	9428.0	9020.4	8523.4	7944.2	7329.3
0°	10886.7	10779.4	10593.5	10368.3	10118.0	9796.2	9424.4	9027.6	8530.6	7940.7	7325.7





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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°	89.4	85.8	85.8	82.2	78.7	75.1	67.9	64.4	57.2	46.5	35.8
85°	193.1	182.3	171.6	164.5	157.3	150.2	139.4	128.7	114.4	93.0	71.5
82.5°	339.7	318.2	296.7	271.7	250.3	228.8	210.9	193.1	171.6	139.4	107.3
80°	486.2	454.1	421.9	386.1	354.0	318.2	286.0	257.4	228.8	185.9	143.0
77.5°	632.8	589.9	543.4	500.5	454.1	407.6	361.1	321.8	278.9	228.8	178.8
75°	768.7	718.6	675.7	614.9	557.7	497.0	436.2	382.6	328.9	268.1	214.5
72.5°	904.5	840.2	779.4	722.2	657.8	582.8	514.8	446.9	379.0	307.5	243.1
70°	1040.4	961.7	886.7	818.7	747.2	672.2	589.9	511.3	429.0	343.2	268.1
67.5°	1179.8	1090.5	1004.7	918.8	836.6	750.8	665.0	575.6	479.1	379.0	296.7
65°	1333.6	1222.7	1119.1	1022.5	926.0	833.0	736.5	640.0	532.7	418.3	321.8
62.5°	1487.3	1365.8	1244.2	1122.6	1015.4	911.7	808.0	700.8	582.8	461.2	346.8
60°	1651.8	1512.3	1372.9	1237.0	1104.8	990.3	875.9	761.5	636.4	500.5	371.8
57.5°	1834.1	1666.1	1508.8	1355.0	1204.9	1069.0	943.9	822.3	682.9	539.9	400.4
55°	2041.5	1834.1	1648.2	1476.6	1312.1	1147.7	1011.8	886.7	736.5	579.2	432.6
52.5°	2259.6	2020.0	1794.8	1601.7	1426.5	1240.6	1076.2	936.7	790.1	618.5	461.2
50°	2513.4	2209.5	1959.2	1723.3	1526.6	1333.6	1144.1	993.9	843.8	665.0	489.8
47.5°	2774.4	2438.3	2123.7	1866.3	1633.9	1423.0	1222.7	1044.0	893.8	707.9	518.4
45°	3078.3	2656.4	2309.6	2005.7	1737.6	1515.9	1301.4	1097.6	936.7	750.8	547.0
42.5°	3371.5	2913.8	2502.7	2159.5	1855.6	1605.3	1372.9	1154.8	979.6	793.7	572.0
40°	3718.3	3171.3	2688.6	2306.0	1973.5	1691.1	1444.4	1215.6	1019.0	833.0	597.1
37.5°	4050.8	3432.3	2913.8	2466.9	2088.0	1776.9	1515.9	1272.8	1054.7	872.4	629.2
35°	4379.7	3721.9	3128.4	2617.1	2205.9	1873.4	1587.4	1326.4	1090.5	904.5	657.8
32.5°	4694.3	3993.6	3346.5	2785.1	2334.7	1962.8	1651.8	1376.5	1126.2	933.1	686.5
30°	4987.5	4251.0	3561.0	2956.7	2452.6	2045.1	1712.6	1426.5	1169.1	958.2	715.1
27.5°	5255.6	4501.3	3775.5	3117.6	2563.5	2120.1	1776.9	1473.0	1204.9	983.2	740.1
25°	5498.8	4726.5	3972.1	3264.2	2663.6	2202.4	1837.7	1519.5	1237.0	1004.7	761.5
22.5°	5727.6	4933.9	4150.9	3410.8	2785.1	2284.6	1894.9	1562.4	1269.2	1026.1	783.0
20°	5927.8	5123.4	4322.5	3557.4	2892.4	2359.7	1944.9	1601.7	1297.8	1040.4	804.4
17.5°	6088.7	5291.4	4476.2	3686.1	2985.3	2424.0	1987.8	1637.5	1322.8	1058.3	818.7
15°	6231.7	5434.4	4604.9	3796.9	3067.6	2477.7	2027.2	1666.1	1344.3	1069.0	836.6
12.5°	6353.3	5556.0	4715.8	3893.5	3139.1	2524.1	2059.4	1687.5	1362.2	1079.7	847.3
10°	6453.4	5652.5	4808.7	3968.5	3196.3	2559.9	2084.4	1709.0	1376.5	1090.5	858.1
7.5°	6528.4	5724.0	4876.7	4032.9	3242.8	2584.9	2105.8	1723.3	1390.8	1097.6	875.9
5°	6585.6	5784.8	4930.3	4075.8	3278.5	2620.7	2130.9	1741.2	1405.1	1104.8	875.9
2.5°	6628.5	5834.8	4973.2	4111.6	3307.1	2613.5	2130.9	1737.6	1405.1	1104.8	872.4
0°	6621.4	5838.4	4969.6	4111.6	3307.1	2606.4	2130.9	1734.0	1405.1	1104.8	872.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.0	17.9	7.2	0.0
85°	53.6	35.8	17.9	0.0
82.5°	78.7	50.1	25.0	0.0
80°	103.7	67.9	32.2	0.0
77.5°	132.3	85.8	42.9	0.0
75°	157.3	100.1	50.1	0.0
72.5°	182.3	118.0	57.2	0.0
70°	203.8	132.3	64.4	0.0
67.5°	225.2	150.2	75.1	0.0
65°	243.1	164.5	82.2	0.0
62.5°	257.4	182.3	89.4	0.0
60°	275.3	196.6	96.5	0.0
57.5°	289.6	207.4	103.7	0.0
55°	303.9	214.5	110.8	0.0
52.5°	318.2	225.2	118.0	0.0
50°	332.5	236.0	125.1	0.0
47.5°	346.8	243.1	128.7	0.0
45°	368.3	253.8	135.9	0.0
42.5°	386.1	261.0	143.0	0.0
40°	404.0	268.1	146.6	0.0
37.5°	421.9	275.3	153.7	0.0
35°	439.8	282.4	157.3	0.0
32.5°	454.1	289.6	160.9	0.0
30°	468.4	296.7	164.5	0.0
27.5°	482.7	300.3	168.0	0.0
25°	493.4	307.5	171.6	0.0
22.5°	504.1	311.0	175.2	0.0
20°	511.3	314.6	178.8	0.0
17.5°	522.0	318.2	182.3	0.0
15°	525.6	321.8	189.5	0.0
12.5°	532.7	325.3	189.5	0.0
10°	536.3	328.9	189.5	0.0
7.5°	543.4	328.9	189.5	0.0
5°	539.9	328.9	189.5	0.0
2.5°	539.9	328.9	189.5	0.0
0°	536.3	328.9	189.5	0.0

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