

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: P628284

Luminaire Tested: **IFLD-M-SA4D-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628284  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32196.5 lumens	Max Intensity:	10494.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	128.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

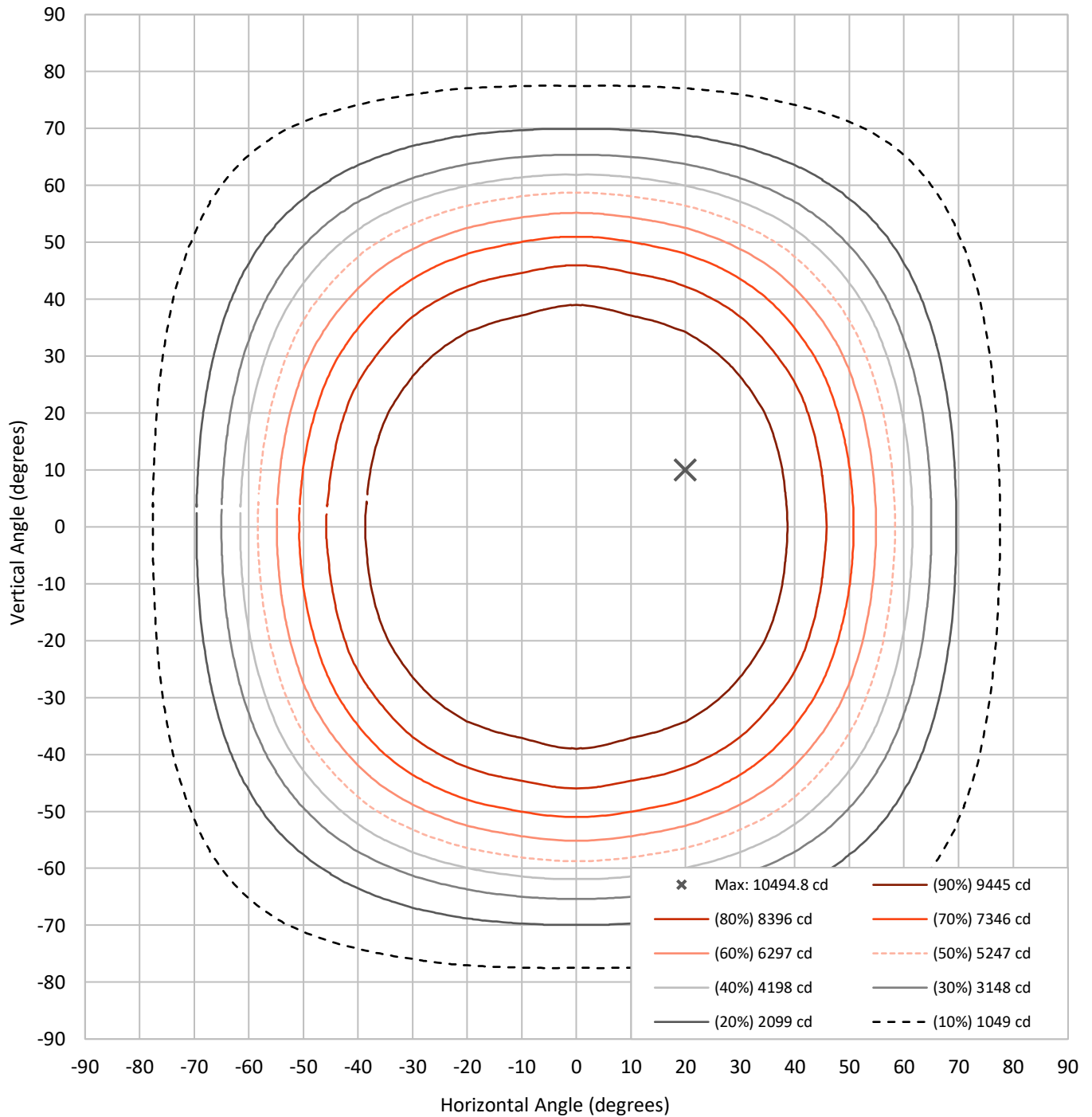
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19756.4 lumens	Field Lumens:	23684.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 249.7  
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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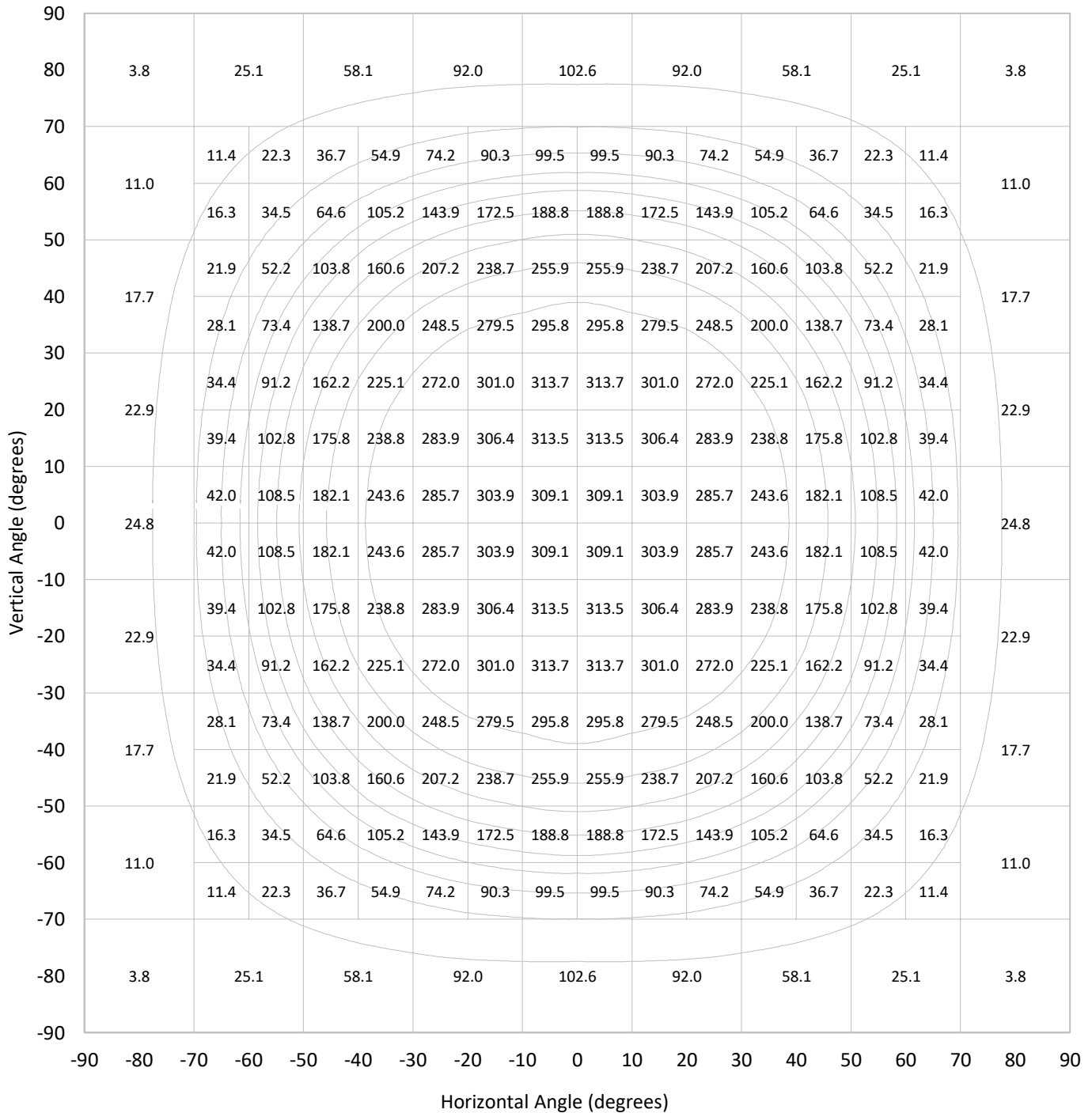
### Iso-Candela Plot





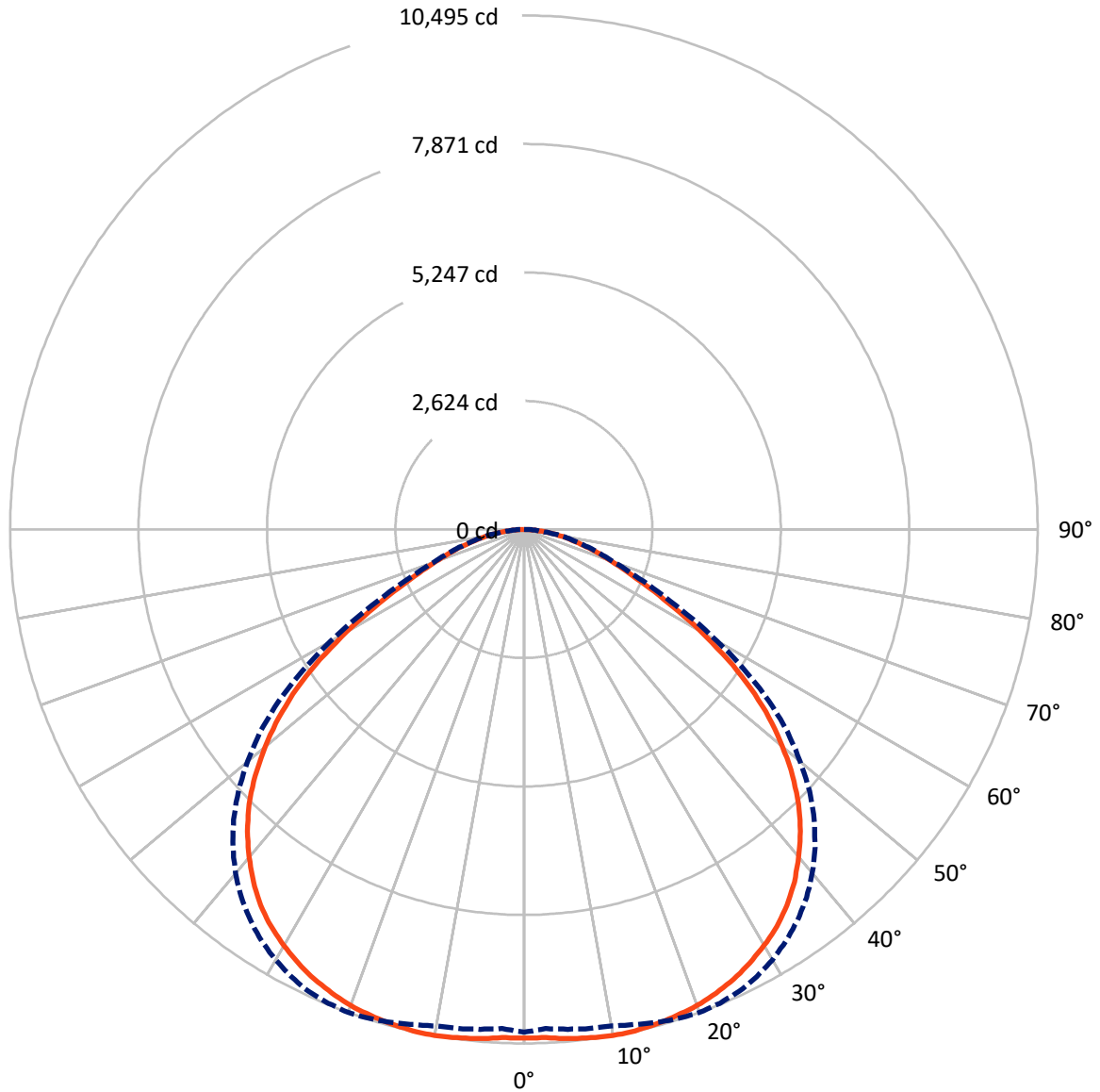
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### Lumen Table



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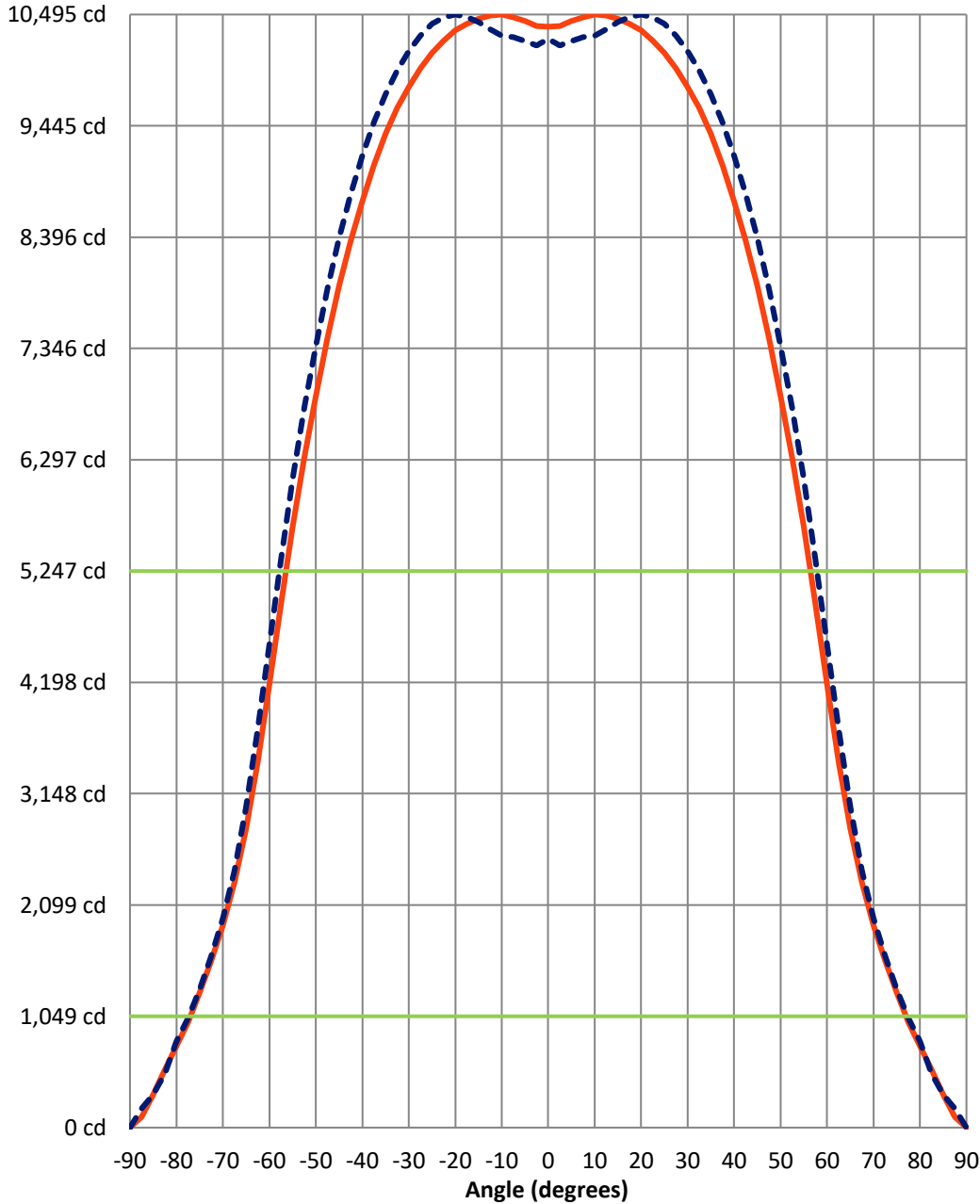
### Luminous Intensity Polar Plot



— 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: 19756.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 23684.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8511.9  
 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°	84.7	91.5	94.9	98.2	101.6	105.0	108.4	105.0	101.6	101.6	98.2
85°	227.0	233.7	237.1	260.8	284.6	298.1	315.0	311.7	311.7	308.3	304.9
82.5°	453.9	474.3	491.2	514.9	528.5	548.8	562.3	552.2	545.4	531.9	521.7
80°	806.2	813.0	816.4	819.8	802.9	799.5	792.7	782.5	769.0	752.0	735.1
77.5°	1026.4	1033.2	1040.0	1033.2	1029.8	1026.4	1016.3	1006.1	992.6	979.0	958.7
75°	1358.4	1358.4	1358.4	1348.3	1341.5	1331.3	1314.4	1297.4	1273.7	1246.6	1216.1
72.5°	1710.7	1707.3	1704.0	1683.6	1666.7	1646.4	1622.7	1602.3	1575.2	1544.7	1504.1
70°	2080.0	2086.8	2090.1	2063.0	2042.7	2015.6	1985.1	1947.9	1907.2	1863.2	1805.6
67.5°	2588.1	2581.3	2574.6	2537.3	2510.2	2472.9	2428.9	2374.7	2313.7	2246.0	2164.7
65°	3218.2	3228.4	3208.1	3170.8	3120.0	3059.0	2991.2	2913.3	2821.9	2720.2	2605.1
62.5°	3980.4	3997.4	3973.6	3926.2	3861.9	3780.6	3685.7	3573.9	3448.6	3306.3	3164.0
60°	4847.6	4844.3	4800.2	4735.9	4651.2	4549.5	4444.5	4322.6	4180.3	4014.3	3841.5
57.5°	5643.7	5637.0	5582.8	5518.4	5433.7	5325.3	5213.5	5084.8	4935.7	4759.6	4559.7
55°	6358.5	6351.7	6297.5	6229.8	6141.7	6033.3	5931.7	5809.7	5664.1	5477.7	5264.3
52.5°	6992.0	6995.4	6948.0	6873.4	6778.6	6673.6	6575.3	6453.4	6314.5	6128.2	5921.5
50°	7574.7	7571.3	7520.5	7452.7	7364.6	7263.0	7164.8	7042.8	6897.1	6717.6	6517.7
47.5°	8116.7	8109.9	8052.3	7977.8	7886.3	7798.2	7706.8	7598.4	7445.9	7266.4	7066.5
45°	8570.6	8557.1	8499.5	8428.3	8340.3	8262.3	8181.0	8099.7	7937.1	7771.1	7581.4
42.5°	8960.2	8956.8	8899.2	8828.1	8740.0	8672.2	8597.7	8496.1	8360.6	8208.1	8021.8
40°	9332.8	9305.7	9248.1	9180.4	9099.1	9041.5	8967.0	8865.3	8733.2	8584.2	8404.6
37.5°	9610.6	9614.0	9553.0	9478.5	9407.3	9353.1	9285.4	9190.5	9075.4	8929.7	8750.2
35°	9874.8	9857.9	9807.1	9742.7	9678.4	9617.4	9546.2	9464.9	9370.1	9234.6	9065.2
32.5°	10047.6	10071.3	10010.3	9942.6	9905.3	9857.9	9783.4	9698.7	9614.0	9478.5	9326.0
30°	10237.3	10217.0	10169.6	10112.0	10084.9	10054.4	9990.0	9908.7	9810.5	9688.5	9546.2
27.5°	10369.4	10359.3	10301.7	10247.5	10233.9	10206.8	10156.0	10084.9	9986.6	9868.1	9735.9
25°	10427.0	10433.8	10379.6	10349.1	10349.1	10332.2	10291.5	10230.5	10132.3	10023.9	9895.2
22.5°	10454.1	10447.3	10410.1	10403.3	10420.2	10406.7	10389.8	10335.5	10247.5	10159.4	10051.0
20°	10471.1	10423.6	10389.8	10416.9	10437.2	10433.8	10420.2	10386.4	10345.7	10271.2	10176.3
17.5°	10433.8	10403.3	10362.7	10403.3	10447.3	10450.7	10437.2	10416.9	10406.7	10359.3	10274.6
15°	10342.3	10318.6	10325.4	10366.0	10416.9	10433.8	10444.0	10467.7	10454.1	10416.9	10342.3
12.5°	10281.3	10250.9	10281.3	10322.0	10349.1	10359.3	10440.6	10484.6	10484.6	10450.7	10403.3
10°	10264.4	10203.4	10244.1	10281.3	10294.9	10355.9	10423.6	10471.1	10494.8	10467.7	10406.7
7.5°	10230.5	10189.9	10206.8	10223.8	10301.7	10345.7	10383.0	10433.8	10467.7	10464.3	10410.1
5°	10213.6	10162.8	10169.6	10240.7	10294.9	10325.4	10338.9	10383.0	10433.8	10444.0	10403.3
2.5°	10169.6	10145.8	10196.7	10203.4	10244.1	10267.8	10281.3	10322.0	10386.4	10410.1	10393.1
0°	10145.8	10112.0	10078.1	10105.2	10172.9	10223.8	10244.1	10305.1	10379.6	10403.3	10366.0



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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°	94.9	91.5	88.1	84.7	88.1	88.1	88.1	84.7	88.1	84.7	84.7
85°	294.7	281.2	271.0	257.5	243.9	233.7	220.2	206.6	203.3	199.9	193.1
82.5°	508.1	491.2	474.3	453.9	433.6	409.9	386.2	359.1	352.3	345.5	335.4
80°	714.8	691.1	667.4	643.6	623.3	599.6	572.5	542.0	521.7	504.8	484.4
77.5°	931.6	897.7	863.8	823.2	799.5	775.8	748.7	718.2	687.7	660.6	630.1
75°	1178.9	1141.6	1107.7	1067.1	1023.1	979.0	935.0	894.3	850.3	809.6	769.0
72.5°	1453.3	1399.1	1344.9	1294.1	1239.9	1185.7	1128.1	1073.9	1019.7	965.5	907.9
70°	1741.2	1673.5	1605.7	1538.0	1466.8	1395.7	1327.9	1260.2	1192.4	1121.3	1056.9
67.5°	2080.0	2002.1	1914.0	1819.1	1714.1	1622.7	1534.6	1453.3	1372.0	1290.7	1209.4
65°	2503.4	2395.0	2276.5	2147.7	2025.8	1903.8	1775.1	1653.1	1558.3	1463.4	1372.0
62.5°	3025.1	2872.7	2706.7	2540.7	2391.6	2232.4	2083.4	1924.2	1775.1	1639.6	1527.8
60°	3648.4	3441.8	3238.5	3025.1	2818.5	2601.7	2412.0	2215.5	2029.2	1863.2	1700.6
57.5°	4336.1	4095.6	3851.7	3590.8	3309.7	3055.6	2798.2	2540.7	2320.5	2100.3	1917.4
55°	5034.0	4779.9	4505.5	4210.8	3902.5	3577.3	3228.4	2940.4	2638.9	2381.5	2144.3
52.5°	5697.9	5433.7	5149.1	4878.1	4508.9	4136.3	3753.5	3374.0	3021.7	2693.1	2405.2
50°	6290.8	6033.3	5758.9	5443.9	5101.7	4705.4	4278.5	3851.7	3435.0	3048.8	2689.7
47.5°	6832.8	6582.1	6307.7	5992.7	5681.0	5240.6	4810.4	4339.5	3875.4	3431.6	3011.6
45°	7340.9	7086.8	6802.3	6500.8	6141.7	5748.7	5305.0	4830.7	4332.7	3834.8	3350.3
42.5°	7801.6	7547.6	7259.6	6948.0	6592.3	6202.7	5772.5	5294.8	4793.4	4251.4	3719.6
40°	8204.8	7957.5	7679.7	7354.5	7022.5	6612.6	6189.1	5735.2	5216.9	4671.5	4085.4
37.5°	8557.1	8326.7	8052.3	7730.5	7378.2	7012.3	6575.3	6121.4	5653.9	5061.1	4461.5
35°	8868.7	8655.3	8374.1	8069.2	7723.7	7337.5	6927.6	6483.9	5979.1	5423.5	4840.9
32.5°	9139.7	8922.9	8665.5	8360.6	8025.2	7662.7	7242.7	6795.5	6317.9	5752.1	5118.7
30°	9370.1	9160.1	8916.1	8628.2	8306.4	7947.3	7537.4	7086.8	6599.0	6036.7	5410.0
27.5°	9570.0	9370.1	9133.0	8865.3	8557.1	8211.5	7798.2	7344.3	6846.3	6304.3	5677.6
25°	9742.7	9549.6	9329.4	9075.4	8770.5	8431.7	8042.1	7567.9	7069.9	6524.5	5904.6
22.5°	9898.6	9712.2	9492.0	9244.7	8967.0	8628.2	8235.2	7764.4	7259.6	6721.0	6111.2
20°	10037.4	9864.7	9647.9	9393.8	9116.0	8773.9	8384.3	7937.1	7429.0	6900.5	6297.5
17.5°	10149.2	9996.8	9780.0	9512.4	9234.6	8902.6	8523.2	8113.3	7574.7	7053.0	6453.4
15°	10227.1	10078.1	9881.6	9610.6	9339.6	9011.0	8631.6	8208.1	7706.8	7174.9	6582.1
12.5°	10281.3	10122.1	9939.2	9688.5	9417.5	9092.3	8723.1	8306.4	7818.6	7283.3	6693.9
10°	10294.9	10149.2	9966.3	9742.7	9478.5	9163.4	8801.0	8387.7	7910.0	7368.0	6785.4
7.5°	10301.7	10162.8	9996.8	9783.4	9522.5	9217.6	8858.6	8452.0	7977.8	7439.2	6853.1
5°	10298.3	10166.2	10017.1	9810.5	9549.6	9248.1	8895.8	8496.1	8025.2	7486.6	6903.9
2.5°	10288.1	10169.6	10030.7	9830.8	9580.1	9282.0	8933.1	8546.9	8076.0	7527.2	6944.6
0°	10315.2	10213.6	10037.4	9824.0	9586.9	9282.0	8929.7	8553.7	8082.8	7523.8	6941.2





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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°	84.7	81.3	81.3	77.9	74.5	71.1	64.4	61.0	54.2	44.0	33.9
85°	182.9	172.8	162.6	155.8	149.1	142.3	132.1	122.0	108.4	88.1	67.8
82.5°	321.8	301.5	281.2	257.5	237.1	216.8	199.9	182.9	162.6	132.1	101.6
80°	460.7	430.2	399.7	365.9	335.4	301.5	271.0	243.9	216.8	176.2	135.5
77.5°	599.6	559.0	514.9	474.3	430.2	386.2	342.1	304.9	264.2	216.8	169.4
75°	728.3	680.9	640.3	582.7	528.5	470.9	413.3	362.5	311.7	254.1	203.3
72.5°	857.1	796.1	738.5	684.3	623.3	552.2	487.8	423.4	359.1	291.3	230.4
70°	985.8	911.3	840.1	775.8	708.0	636.9	559.0	484.4	406.5	325.2	254.1
67.5°	1117.9	1033.2	951.9	870.6	792.7	711.4	630.1	545.4	453.9	359.1	281.2
65°	1263.6	1158.6	1060.3	968.9	877.4	789.3	697.8	606.4	504.8	396.3	304.9
62.5°	1409.2	1294.1	1178.9	1063.7	962.1	863.8	765.6	664.0	552.2	437.0	328.6
60°	1565.1	1433.0	1300.8	1172.1	1046.8	938.4	830.0	721.6	603.0	474.3	352.3
57.5°	1737.8	1578.6	1429.6	1283.9	1141.6	1012.9	894.3	779.1	647.0	511.5	379.4
55°	1934.3	1737.8	1561.7	1399.1	1243.2	1087.4	958.7	840.1	697.8	548.8	409.9
52.5°	2141.0	1914.0	1700.6	1517.6	1351.7	1175.5	1019.7	887.5	748.7	586.1	437.0
50°	2381.5	2093.5	1856.4	1632.8	1446.5	1263.6	1084.0	941.8	799.5	630.1	464.1
47.5°	2628.8	2310.3	2012.2	1768.3	1548.1	1348.3	1158.6	989.2	846.9	670.7	491.2
45°	2916.7	2517.0	2188.4	1900.4	1646.4	1436.3	1233.1	1040.0	887.5	711.4	518.3
42.5°	3194.5	2760.9	2371.3	2046.1	1758.2	1521.0	1300.8	1094.2	928.2	752.0	542.0
40°	3523.1	3004.8	2547.5	2185.0	1870.0	1602.3	1368.6	1151.8	965.5	789.3	565.7
37.5°	3838.1	3252.1	2760.9	2337.4	1978.4	1683.6	1436.3	1206.0	999.3	826.6	596.2
35°	4149.8	3526.5	2964.1	2479.7	2090.1	1775.1	1504.1	1256.8	1033.2	857.1	623.3
32.5°	4447.9	3783.9	3170.8	2638.9	2212.1	1859.8	1565.1	1304.2	1067.1	884.2	650.4
30°	4725.7	4027.8	3374.0	2801.5	2323.9	1937.7	1622.7	1351.7	1107.7	907.9	677.5
27.5°	4979.8	4265.0	3577.3	2954.0	2428.9	2008.8	1683.6	1395.7	1141.6	931.6	701.2
25°	5210.1	4478.4	3763.6	3092.9	2523.8	2086.8	1741.2	1439.7	1172.1	951.9	721.6
22.5°	5426.9	4674.9	3933.0	3231.8	2638.9	2164.7	1795.4	1480.4	1202.6	972.2	741.9
20°	5616.6	4854.4	4095.6	3370.7	2740.6	2235.8	1842.9	1517.6	1229.7	985.8	762.2
17.5°	5769.1	5013.6	4241.3	3492.6	2828.6	2296.8	1883.5	1551.5	1253.4	1002.7	775.8
15°	5904.6	5149.1	4363.2	3597.6	2906.6	2347.6	1920.8	1578.6	1273.7	1012.9	792.7
12.5°	6019.8	5264.3	4468.2	3689.1	2974.3	2391.6	1951.3	1598.9	1290.7	1023.1	802.9
10°	6114.6	5355.8	4556.3	3760.2	3028.5	2425.5	1975.0	1619.3	1304.2	1033.2	813.0
7.5°	6185.7	5423.5	4620.7	3821.2	3072.5	2449.2	1995.3	1632.8	1317.8	1040.0	830.0
5°	6239.9	5481.1	4671.5	3861.9	3106.4	2483.1	2019.0	1649.8	1331.3	1046.8	830.0
2.5°	6280.6	5528.6	4712.1	3895.7	3133.5	2476.3	2019.0	1646.4	1331.3	1046.8	826.6
0°	6273.8	5531.9	4708.8	3895.7	3133.5	2469.6	2019.0	1643.0	1331.3	1046.8	826.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.7	16.9	6.8	0.0
85°	50.8	33.9	16.9	0.0
82.5°	74.5	47.4	23.7	0.0
80°	98.2	64.4	30.5	0.0
77.5°	125.3	81.3	40.7	0.0
75°	149.1	94.9	47.4	0.0
72.5°	172.8	111.8	54.2	0.0
70°	193.1	125.3	61.0	0.0
67.5°	213.4	142.3	71.1	0.0
65°	230.4	155.8	77.9	0.0
62.5°	243.9	172.8	84.7	0.0
60°	260.8	186.3	91.5	0.0
57.5°	274.4	196.5	98.2	0.0
55°	287.9	203.3	105.0	0.0
52.5°	301.5	213.4	111.8	0.0
50°	315.0	223.6	118.6	0.0
47.5°	328.6	230.4	122.0	0.0
45°	348.9	240.5	128.7	0.0
42.5°	365.9	247.3	135.5	0.0
40°	382.8	254.1	138.9	0.0
37.5°	399.7	260.8	145.7	0.0
35°	416.7	267.6	149.1	0.0
32.5°	430.2	274.4	152.4	0.0
30°	443.8	281.2	155.8	0.0
27.5°	457.3	284.6	159.2	0.0
25°	467.5	291.3	162.6	0.0
22.5°	477.7	294.7	166.0	0.0
20°	484.4	298.1	169.4	0.0
17.5°	494.6	301.5	172.8	0.0
15°	498.0	304.9	179.5	0.0
12.5°	504.8	308.3	179.5	0.0
10°	508.1	311.7	179.5	0.0
7.5°	514.9	311.7	179.5	0.0
5°	511.5	311.7	179.5	0.0
2.5°	511.5	311.7	179.5	0.0
0°	508.1	311.7	179.5	0.0

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