

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: P628403

Luminaire Tested: **IFLD-L-SA7B-830-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628403  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-830-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

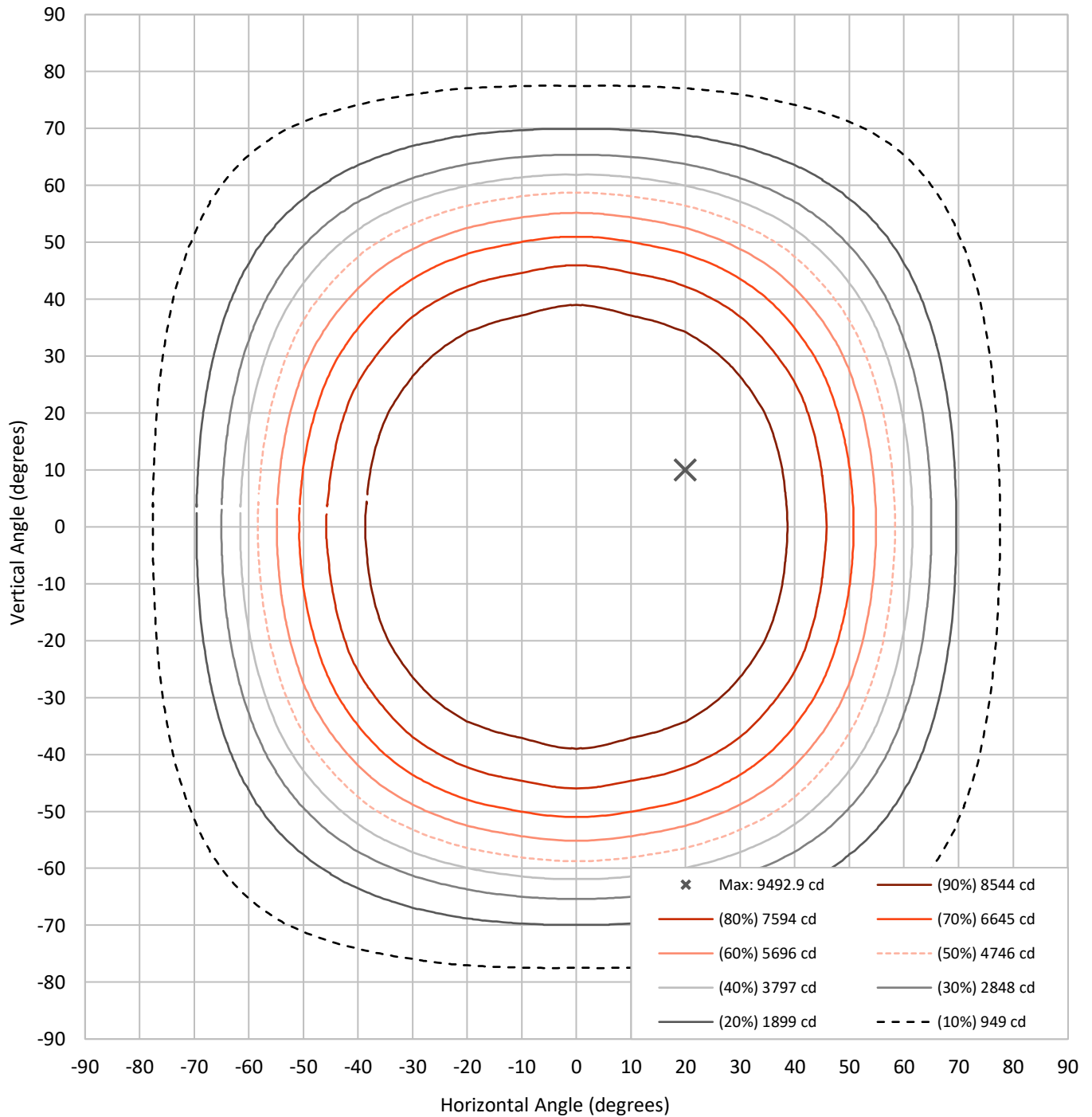
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29122.8 lumens	Max Intensity:	9492.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	103.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17870.4 lumens	Field Lumens:	21423.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281  
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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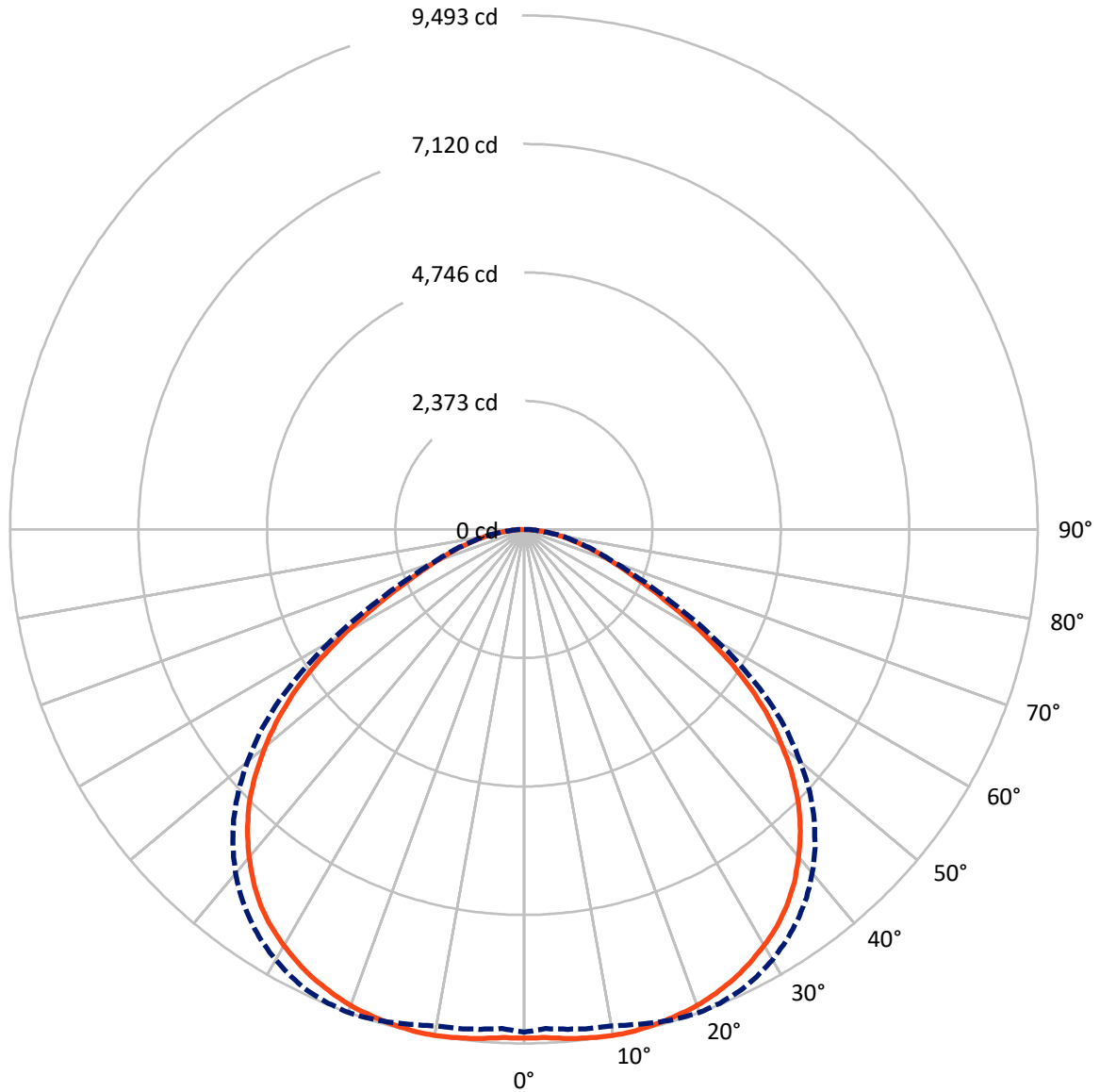
### Iso-Candela Plot





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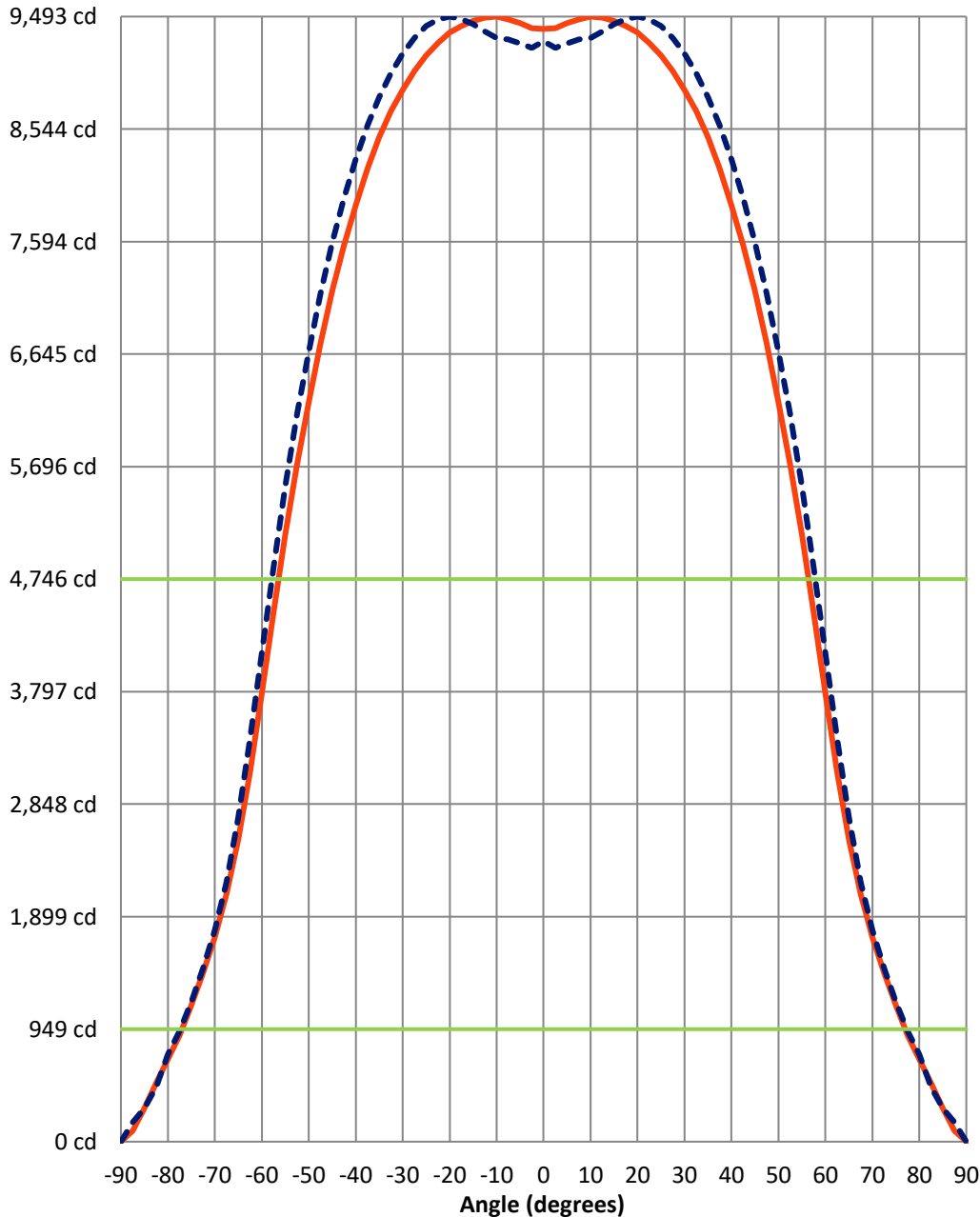
### Luminous Intensity Polar Plot



— 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: 17870.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 21423.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 7699.3  
 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°	76.6	82.7	85.8	88.9	91.9	95.0	98.1	95.0	91.9	91.9	88.9
85°	205.3	211.4	214.5	235.9	257.4	269.6	285.0	281.9	281.9	278.8	275.8
82.5°	410.6	429.0	444.3	465.8	478.0	496.4	508.7	499.5	493.3	481.1	471.9
80°	729.3	735.4	738.5	741.5	726.2	723.1	717.0	707.8	695.6	680.3	664.9
77.5°	928.5	934.6	940.7	934.6	931.5	928.5	919.3	910.1	897.8	885.6	867.2
75°	1228.7	1228.7	1228.7	1219.5	1213.4	1204.2	1188.9	1173.6	1152.1	1127.6	1100.0
72.5°	1547.4	1544.4	1541.3	1522.9	1507.6	1489.2	1467.7	1449.4	1424.8	1397.3	1360.5
70°	1881.4	1887.5	1890.6	1866.1	1847.7	1823.2	1795.6	1761.9	1725.1	1685.3	1633.2
67.5°	2341.0	2334.9	2328.8	2295.1	2270.6	2236.9	2197.0	2148.0	2092.8	2031.6	1958.0
65°	2911.0	2920.2	2901.8	2868.1	2822.1	2767.0	2705.7	2635.2	2552.5	2460.5	2356.4
62.5°	3600.4	3615.7	3594.3	3551.4	3493.2	3419.6	3333.8	3232.7	3119.3	2990.7	2862.0
60°	4384.9	4381.8	4342.0	4283.7	4207.1	4115.2	4020.2	3909.9	3781.2	3631.1	3474.8
57.5°	5104.9	5098.8	5049.8	4991.6	4915.0	4816.9	4715.8	4599.4	4464.5	4305.2	4124.4
55°	5751.5	5745.4	5696.3	5635.0	5555.4	5457.3	5365.4	5255.1	5123.3	4954.8	4761.8
52.5°	6324.5	6327.6	6284.7	6217.2	6131.4	6036.5	5947.6	5837.3	5711.7	5543.1	5356.2
50°	6851.5	6848.5	6802.5	6741.2	6661.6	6569.6	6480.8	6370.5	6238.7	6076.3	5895.5
47.5°	7341.8	7335.7	7283.6	7216.2	7133.4	7053.8	6971.0	6873.0	6735.1	6572.7	6391.9
45°	7752.4	7740.1	7688.1	7623.7	7544.0	7473.6	7400.0	7326.5	7179.4	7029.3	6857.7
42.5°	8104.8	8101.7	8049.6	7985.3	7905.6	7844.3	7776.9	7685.0	7562.4	7424.5	7256.0
40°	8441.8	8417.3	8365.2	8304.0	8230.4	8178.3	8110.9	8019.0	7899.5	7764.7	7602.3
37.5°	8693.1	8696.2	8641.0	8573.6	8509.3	8460.2	8399.0	8313.2	8209.0	8077.2	7914.8
35°	8932.1	8916.8	8870.8	8812.6	8754.4	8699.2	8634.9	8561.4	8475.6	8353.0	8199.8
32.5°	9088.4	9109.8	9054.7	8993.4	8959.7	8916.8	8849.4	8772.8	8696.2	8573.6	8435.7
30°	9260.0	9241.6	9198.7	9146.6	9122.1	9094.5	9036.3	8962.8	8873.9	8763.6	8634.9
27.5°	9379.5	9370.3	9318.2	9269.2	9256.9	9232.4	9186.4	9122.1	9033.2	8926.0	8806.5
25°	9431.6	9437.7	9388.7	9361.1	9361.1	9345.8	9309.0	9253.9	9165.0	9066.9	8950.5
22.5°	9456.1	9450.0	9416.3	9410.1	9425.5	9413.2	9397.9	9348.9	9269.2	9189.5	9091.5
20°	9471.4	9428.5	9397.9	9422.4	9440.8	9437.7	9425.5	9394.8	9358.0	9290.6	9204.8
17.5°	9437.7	9410.1	9373.4	9410.1	9450.0	9453.0	9440.8	9422.4	9413.2	9370.3	9293.7
15°	9355.0	9333.5	9339.7	9376.4	9422.4	9437.7	9446.9	9468.4	9456.1	9422.4	9355.0
12.5°	9299.8	9272.2	9299.8	9336.6	9361.1	9370.3	9443.8	9483.7	9483.7	9453.0	9410.1
10°	9284.5	9229.3	9266.1	9299.8	9312.1	9367.2	9428.5	9471.4	9492.9	9468.4	9413.2
7.5°	9253.9	9217.1	9232.4	9247.7	9318.2	9358.0	9391.7	9437.7	9468.4	9465.3	9416.3
5°	9238.5	9192.6	9198.7	9263.1	9312.1	9339.7	9351.9	9391.7	9437.7	9446.9	9410.1
2.5°	9198.7	9177.3	9223.2	9229.3	9266.1	9287.6	9299.8	9336.6	9394.8	9416.3	9400.9
0°	9177.3	9146.6	9116.0	9140.5	9201.8	9247.7	9266.1	9321.3	9388.7	9410.1	9376.4



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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°	85.8	82.7	79.7	76.6	79.7	79.7	79.7	76.6	79.7	76.6	76.6
85°	266.6	254.3	245.1	232.9	220.6	211.4	199.2	186.9	183.9	180.8	174.7
82.5°	459.6	444.3	429.0	410.6	392.2	370.8	349.3	324.8	318.7	312.5	303.4
80°	646.5	625.1	603.6	582.2	563.8	542.4	517.8	490.3	471.9	456.6	438.2
77.5°	842.7	812.0	781.4	744.6	723.1	701.7	677.2	649.6	622.0	597.5	569.9
75°	1066.3	1032.6	1002.0	965.2	925.4	885.6	845.7	808.9	769.1	732.3	695.6
72.5°	1314.5	1265.5	1216.5	1170.5	1121.5	1072.5	1020.4	971.3	922.3	873.3	821.2
70°	1575.0	1513.7	1452.4	1391.1	1326.8	1262.4	1201.2	1139.9	1078.6	1014.2	956.0
67.5°	1881.4	1810.9	1731.3	1645.5	1550.5	1467.7	1388.1	1314.5	1241.0	1167.5	1093.9
65°	2264.4	2166.4	2059.1	1942.7	1832.4	1722.1	1605.6	1495.3	1409.5	1323.7	1241.0
62.5°	2736.3	2598.4	2448.3	2298.1	2163.3	2019.3	1884.5	1740.5	1605.6	1483.1	1382.0
60°	3300.1	3113.2	2929.4	2736.3	2549.4	2353.3	2181.7	2004.0	1835.5	1685.3	1538.2
57.5°	3922.2	3704.6	3484.0	3248.0	2993.7	2763.9	2531.0	2298.1	2099.0	1899.8	1734.3
55°	4553.4	4323.6	4075.4	3808.8	3529.9	3235.8	2920.2	2659.7	2387.0	2154.1	1939.6
52.5°	5154.0	4915.0	4657.6	4412.4	4078.4	3741.4	3395.1	3051.9	2733.3	2436.0	2175.6
50°	5690.2	5457.3	5209.1	4924.2	4614.7	4256.2	3870.1	3484.0	3107.1	2757.8	2433.0
47.5°	6180.5	5953.7	5705.5	5420.6	5138.7	4740.3	4351.2	3925.2	3505.4	3104.0	2724.1
45°	6640.1	6410.3	6152.9	5880.2	5555.4	5199.9	4798.5	4369.5	3919.1	3468.7	3030.5
42.5°	7056.8	6827.0	6566.6	6284.7	5962.9	5610.5	5221.4	4789.3	4335.8	3845.6	3364.5
40°	7421.5	7197.8	6946.5	6652.4	6352.1	5981.3	5598.3	5187.7	4718.9	4225.5	3695.4
37.5°	7740.1	7531.8	7283.6	6992.5	6673.8	6342.9	5947.6	5537.0	5114.1	4577.9	4035.5
35°	8022.1	7829.0	7574.7	7298.9	6986.4	6637.0	6266.3	5864.9	5408.3	4905.8	4378.7
32.5°	8267.2	8071.1	7838.2	7562.4	7259.1	6931.2	6551.2	6146.8	5714.7	5203.0	4630.0
30°	8475.6	8285.6	8065.0	7804.5	7513.4	7188.6	6817.8	6410.3	5969.0	5460.4	4893.5
27.5°	8656.3	8475.6	8261.1	8019.0	7740.1	7427.6	7053.8	6643.2	6192.7	5702.5	5135.6
25°	8812.6	8638.0	8438.8	8209.0	7933.2	7626.8	7274.4	6845.4	6395.0	5901.6	5340.9
22.5°	8953.6	8785.0	8585.9	8362.2	8110.9	7804.5	7449.1	7023.1	6566.6	6079.4	5527.8
20°	9079.2	8922.9	8726.8	8497.0	8245.7	7936.3	7583.9	7179.4	6719.8	6241.8	5696.3
17.5°	9180.3	9042.4	8846.3	8604.3	8353.0	8052.7	7709.5	7338.7	6851.5	6379.6	5837.3
15°	9250.8	9116.0	8938.2	8693.1	8448.0	8150.8	7807.6	7424.5	6971.0	6490.0	5953.7
12.5°	9299.8	9155.8	8990.3	8763.6	8518.5	8224.3	7890.3	7513.4	7072.2	6588.0	6054.8
10°	9312.1	9180.3	9014.9	8812.6	8573.6	8288.6	7960.8	7586.9	7154.9	6664.6	6137.6
7.5°	9318.2	9192.6	9042.4	8849.4	8613.4	8337.7	8012.9	7645.2	7216.2	6729.0	6198.9
5°	9315.1	9195.6	9060.8	8873.9	8638.0	8365.2	8046.6	7685.0	7259.1	6771.9	6244.8
2.5°	9306.0	9198.7	9073.1	8892.3	8665.5	8395.9	8080.3	7731.0	7305.0	6808.6	6281.6
0°	9330.5	9238.5	9079.2	8886.2	8671.7	8395.9	8077.2	7737.1	7311.2	6805.6	6278.5





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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°	76.6	73.5	73.5	70.5	67.4	64.3	58.2	55.2	49.0	39.8	30.6
85°	165.5	156.3	147.1	141.0	134.8	128.7	119.5	110.3	98.1	79.7	61.3
82.5°	291.1	272.7	254.3	232.9	214.5	196.1	180.8	165.5	147.1	119.5	91.9
80°	416.7	389.2	361.6	330.9	303.4	272.7	245.1	220.6	196.1	159.3	122.6
77.5°	542.4	505.6	465.8	429.0	389.2	349.3	309.5	275.8	239.0	196.1	153.2
75°	658.8	615.9	579.1	527.0	478.0	425.9	373.8	327.9	281.9	229.8	183.9
72.5°	775.2	720.1	668.0	619.0	563.8	499.5	441.2	383.0	324.8	263.5	208.4
70°	891.7	824.3	759.9	701.7	640.4	576.1	505.6	438.2	367.7	294.2	229.8
67.5°	1011.2	934.6	861.0	787.5	717.0	643.5	569.9	493.3	410.6	324.8	254.3
65°	1142.9	1048.0	959.1	876.4	793.6	714.0	631.2	548.5	456.6	358.5	275.8
62.5°	1274.7	1170.5	1066.3	962.2	870.2	781.4	692.5	600.6	499.5	395.3	297.2
60°	1415.7	1296.2	1176.6	1060.2	946.8	848.8	750.7	652.7	545.4	429.0	318.7
57.5°	1571.9	1427.9	1293.1	1161.3	1032.6	916.2	808.9	704.8	585.3	462.7	343.2
55°	1749.7	1571.9	1412.6	1265.5	1124.6	983.6	867.2	759.9	631.2	496.4	370.8
52.5°	1936.6	1731.3	1538.2	1372.8	1222.6	1063.3	922.3	802.8	677.2	530.1	395.3
50°	2154.1	1893.7	1679.2	1476.9	1308.4	1142.9	980.5	851.8	723.1	569.9	419.8
47.5°	2377.8	2089.8	1820.1	1599.5	1400.3	1219.5	1048.0	894.7	766.0	606.7	444.3
45°	2638.3	2276.7	1979.5	1719.0	1489.2	1299.2	1115.4	940.7	802.8	643.5	468.8
42.5°	2889.5	2497.3	2144.9	1850.8	1590.3	1375.8	1176.6	989.7	839.6	680.3	490.3
40°	3186.8	2717.9	2304.3	1976.4	1691.4	1449.4	1237.9	1041.8	873.3	714.0	511.7
37.5°	3471.7	2941.6	2497.3	2114.3	1789.5	1522.9	1299.2	1090.9	903.9	747.7	539.3
35°	3753.6	3189.8	2681.2	2243.0	1890.6	1605.6	1360.5	1136.8	934.6	775.2	563.8
32.5°	4023.3	3422.7	2868.1	2387.0	2000.9	1682.2	1415.7	1179.7	965.2	799.8	588.3
30°	4274.5	3643.3	3051.9	2534.1	2102.0	1752.7	1467.7	1222.6	1002.0	821.2	612.8
27.5°	4504.4	3857.8	3235.8	2672.0	2197.0	1817.1	1522.9	1262.4	1032.6	842.7	634.3
25°	4712.7	4050.9	3404.3	2797.6	2282.8	1887.5	1575.0	1302.3	1060.2	861.0	652.7
22.5°	4908.8	4228.6	3557.5	2923.2	2387.0	1958.0	1624.0	1339.1	1087.8	879.4	671.1
20°	5080.4	4391.0	3704.6	3048.9	2478.9	2022.4	1666.9	1372.8	1112.3	891.7	689.4
17.5°	5218.3	4535.0	3836.4	3159.2	2558.6	2077.5	1703.7	1403.4	1133.8	907.0	701.7
15°	5340.9	4657.6	3946.7	3254.2	2629.1	2123.5	1737.4	1427.9	1152.1	916.2	717.0
12.5°	5445.1	4761.8	4041.7	3336.9	2690.4	2163.3	1765.0	1446.3	1167.5	925.4	726.2
10°	5530.9	4844.5	4121.3	3401.3	2739.4	2194.0	1786.4	1464.7	1179.7	934.6	735.4
7.5°	5595.2	4905.8	4179.6	3456.4	2779.2	2215.4	1804.8	1476.9	1192.0	940.7	750.7
5°	5644.2	4957.9	4225.5	3493.2	2809.9	2246.1	1826.3	1492.3	1204.2	946.8	750.7
2.5°	5681.0	5000.8	4262.3	3523.8	2834.4	2239.9	1826.3	1489.2	1204.2	946.8	747.7
0°	5674.9	5003.8	4259.2	3523.8	2834.4	2233.8	1826.3	1486.1	1204.2	946.8	747.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.4	15.3	6.1	0.0
85°	46.0	30.6	15.3	0.0
82.5°	67.4	42.9	21.4	0.0
80°	88.9	58.2	27.6	0.0
77.5°	113.4	73.5	36.8	0.0
75°	134.8	85.8	42.9	0.0
72.5°	156.3	101.1	49.0	0.0
70°	174.7	113.4	55.2	0.0
67.5°	193.0	128.7	64.3	0.0
65°	208.4	141.0	70.5	0.0
62.5°	220.6	156.3	76.6	0.0
60°	235.9	168.5	82.7	0.0
57.5°	248.2	177.7	88.9	0.0
55°	260.5	183.9	95.0	0.0
52.5°	272.7	193.0	101.1	0.0
50°	285.0	202.2	107.2	0.0
47.5°	297.2	208.4	110.3	0.0
45°	315.6	217.6	116.4	0.0
42.5°	330.9	223.7	122.6	0.0
40°	346.3	229.8	125.6	0.0
37.5°	361.6	235.9	131.8	0.0
35°	376.9	242.1	134.8	0.0
32.5°	389.2	248.2	137.9	0.0
30°	401.4	254.3	141.0	0.0
27.5°	413.7	257.4	144.0	0.0
25°	422.9	263.5	147.1	0.0
22.5°	432.1	266.6	150.1	0.0
20°	438.2	269.6	153.2	0.0
17.5°	447.4	272.7	156.3	0.0
15°	450.4	275.8	162.4	0.0
12.5°	456.6	278.8	162.4	0.0
10°	459.6	281.9	162.4	0.0
7.5°	465.8	281.9	162.4	0.0
5°	462.7	281.9	162.4	0.0
2.5°	462.7	281.9	162.4	0.0
0°	459.6	281.9	162.4	0.0

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