

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: P628322

Luminaire Tested: **IFLD-L-SA8C-750-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628322  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-750-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	53336 lumens	Max Intensity:	17385.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	126.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

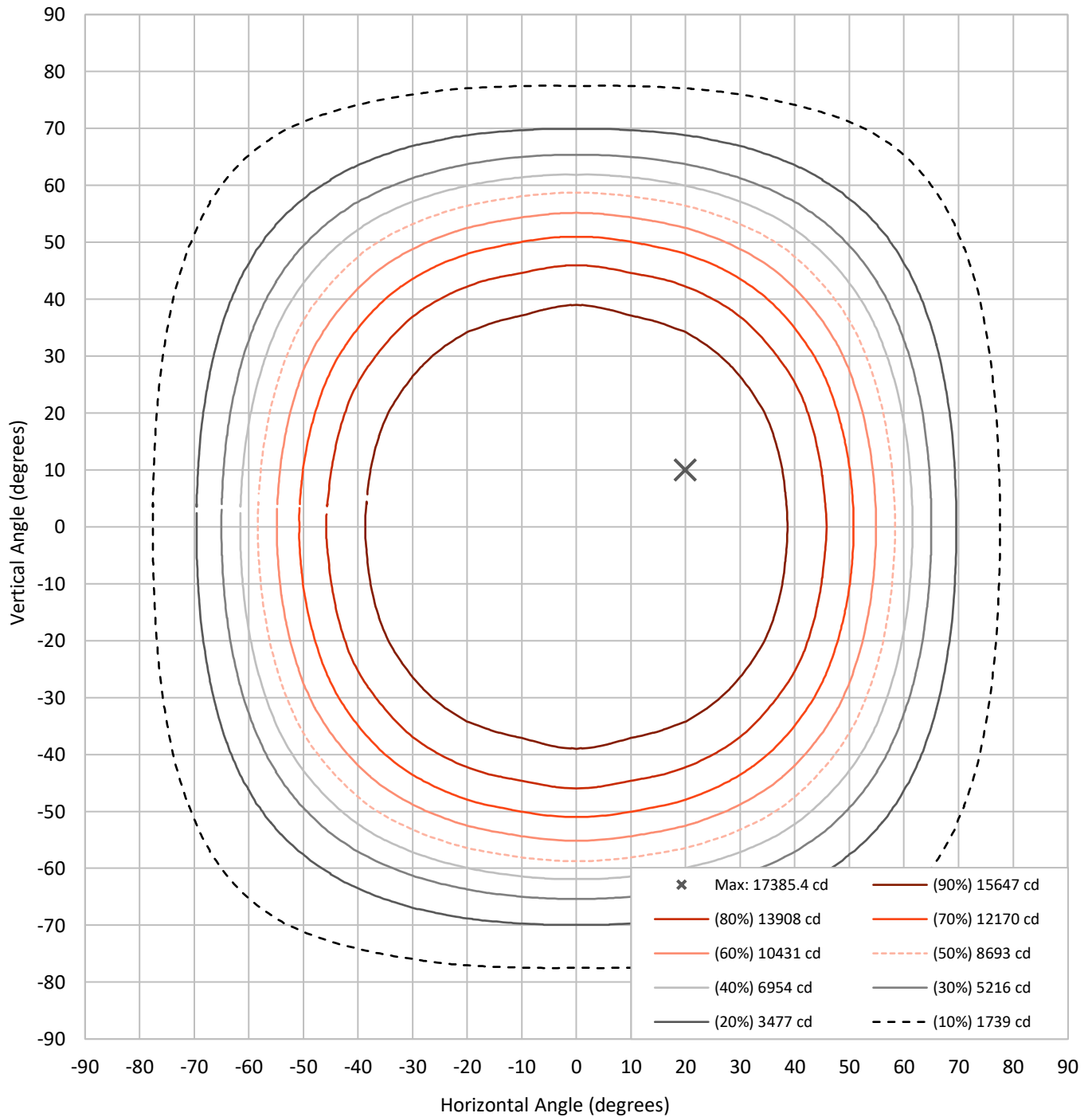
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	32728 lumens	Field Lumens:	39235.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 420.3  
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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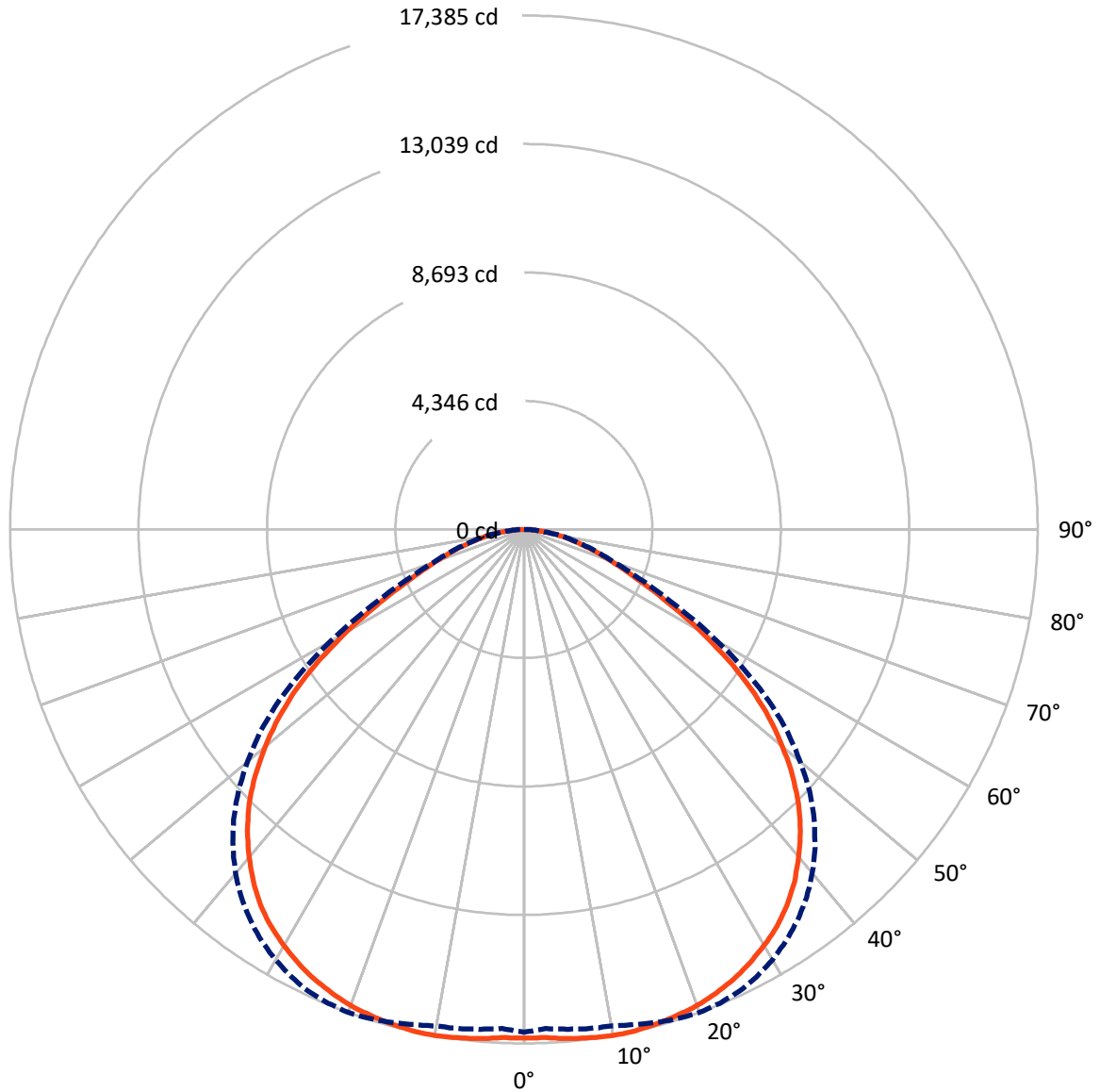
### Iso-Candela Plot





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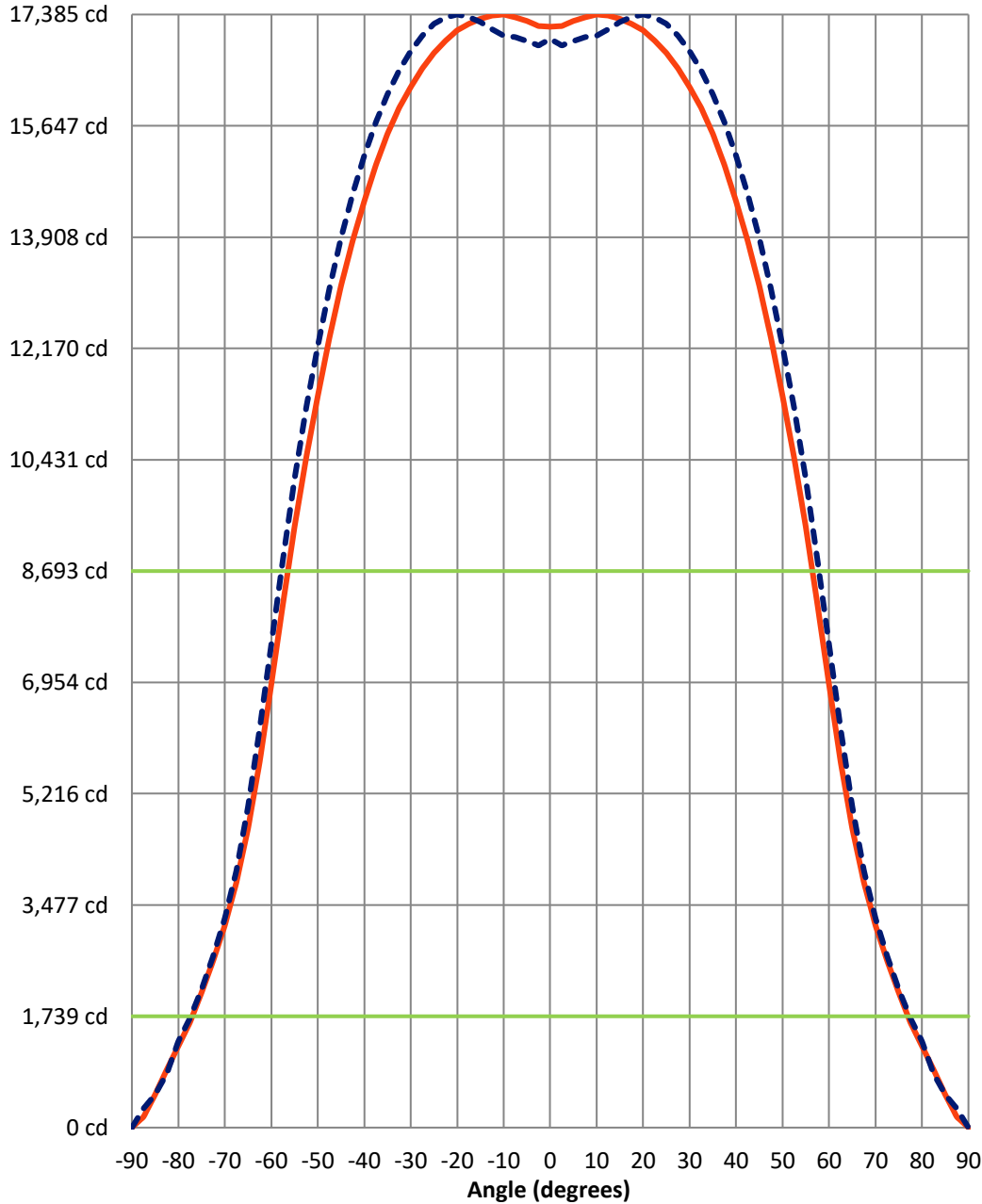
### Luminous Intensity Polar Plot



— 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: 32728  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 39235.3  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 14100.6  
 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°	140.3	151.5	157.1	162.7	168.4	174.0	179.6	174.0	168.4	168.4	162.7
85°	376.0	387.2	392.8	432.1	471.4	493.8	521.9	516.3	516.3	510.7	505.1
82.5°	752.0	785.7	813.7	853.0	875.4	909.1	931.6	914.7	903.5	881.1	864.2
80°	1335.6	1346.8	1352.4	1358.1	1330.0	1324.4	1313.2	1296.3	1273.9	1245.8	1217.8
77.5°	1700.4	1711.6	1722.8	1711.6	1706.0	1700.4	1683.5	1666.7	1644.3	1621.8	1588.1
75°	2250.3	2250.3	2250.3	2233.5	2222.3	2205.4	2177.4	2149.3	2110.0	2065.1	2014.6
72.5°	2834.0	2828.3	2822.7	2789.1	2761.0	2727.3	2688.1	2654.4	2609.5	2559.0	2491.6
70°	3445.6	3456.9	3462.5	3417.6	3383.9	3339.0	3288.5	3226.8	3159.4	3086.5	2991.1
67.5°	4287.4	4276.2	4265.0	4203.2	4158.3	4096.6	4023.7	3933.9	3832.9	3720.6	3585.9
65°	5331.2	5348.0	5314.4	5252.6	5168.5	5067.5	4955.2	4826.2	4674.6	4506.3	4315.5
62.5°	6593.9	6621.9	6582.6	6504.1	6397.5	6262.8	6105.6	5920.5	5712.8	5477.1	5241.4
60°	8030.5	8024.9	7951.9	7845.3	7705.0	7536.7	7362.7	7160.7	6925.0	6650.0	6363.8
57.5°	9349.3	9338.0	9248.3	9141.6	9001.3	8821.8	8636.6	8423.3	8176.4	7884.6	7553.5
55°	10533.4	10522.1	10432.3	10320.1	10174.2	9994.6	9826.3	9624.2	9382.9	9074.3	8720.7
52.5°	11582.8	11588.4	11509.8	11386.4	11229.2	11055.3	10892.5	10690.5	10460.4	10151.8	9809.4
50°	12548.0	12542.4	12458.2	12346.0	12200.1	12031.7	11869.0	11666.9	11425.6	11128.2	10797.1
47.5°	13445.9	13434.7	13339.3	13215.8	13064.3	12918.4	12766.9	12587.3	12334.7	12037.3	11706.2
45°	14197.9	14175.4	14080.0	13962.2	13816.3	13687.2	13552.5	13417.8	13148.5	12873.5	12559.2
42.5°	14843.2	14837.6	14742.2	14624.4	14478.5	14366.2	14242.8	14074.4	13849.9	13597.4	13288.8
40°	15460.5	15415.6	15320.2	15208.0	15073.3	14977.9	14854.4	14686.1	14467.2	14220.3	13922.9
37.5°	15920.7	15926.3	15825.3	15701.8	15584.0	15494.2	15382.0	15224.8	15034.0	14792.7	14495.3
35°	16358.4	16330.4	16246.2	16139.5	16032.9	15931.9	15814.1	15679.4	15522.3	15297.8	15017.2
32.5°	16644.6	16683.9	16582.9	16470.6	16408.9	16330.4	16206.9	16066.6	15926.3	15701.8	15449.3
30°	16958.9	16925.2	16846.6	16751.2	16706.3	16655.8	16549.2	16414.5	16251.8	16049.8	15814.1
27.5°	17177.7	17160.9	17065.5	16975.7	16953.3	16908.4	16824.2	16706.3	16543.6	16347.2	16128.3
25°	17273.1	17284.4	17194.6	17144.1	17144.1	17116.0	17048.7	16947.6	16784.9	16605.3	16392.1
22.5°	17318.0	17306.8	17245.1	17233.9	17261.9	17239.5	17211.4	17121.6	16975.7	16829.8	16650.2
20°	17346.1	17267.5	17211.4	17256.3	17290.0	17284.4	17261.9	17205.8	17138.5	17015.0	16857.9
17.5°	17284.4	17233.9	17166.5	17233.9	17306.8	17312.4	17290.0	17256.3	17239.5	17160.9	17020.6
15°	17132.8	17093.6	17104.8	17172.1	17256.3	17284.4	17301.2	17340.5	17318.0	17256.3	17132.8
12.5°	17031.8	16981.3	17031.8	17099.2	17144.1	17160.9	17295.6	17368.5	17368.5	17312.4	17233.9
10°	17003.8	16902.8	16970.1	17031.8	17054.3	17155.3	17267.5	17346.1	17385.4	17340.5	17239.5
7.5°	16947.6	16880.3	16908.4	16936.4	17065.5	17138.5	17200.2	17284.4	17340.5	17334.9	17245.1
5°	16919.6	16835.4	16846.6	16964.5	17054.3	17104.8	17127.2	17200.2	17284.4	17301.2	17233.9
2.5°	16846.6	16807.4	16891.5	16902.8	16970.1	17009.4	17031.8	17099.2	17205.8	17245.1	17217.0
0°	16807.4	16751.2	16695.1	16740.0	16852.2	16936.4	16970.1	17071.1	17194.6	17233.9	17172.1



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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°	157.1	151.5	145.9	140.3	145.9	145.9	145.9	140.3	145.9	140.3	140.3
85°	488.2	465.8	448.9	426.5	404.0	387.2	364.8	342.3	336.7	331.1	319.9
82.5°	841.8	813.7	785.7	752.0	718.3	679.0	639.7	594.9	583.6	572.4	555.6
80°	1184.1	1144.8	1105.5	1066.2	1032.6	993.3	948.4	897.9	864.2	836.2	802.5
77.5°	1543.2	1487.1	1431.0	1363.7	1324.4	1285.1	1240.2	1189.7	1139.2	1094.3	1043.8
75°	1952.9	1891.2	1835.1	1767.7	1694.8	1621.8	1548.9	1481.5	1408.6	1341.2	1273.9
72.5°	2407.5	2317.7	2227.9	2143.7	2053.9	1964.1	1868.7	1778.9	1689.2	1599.4	1504.0
70°	2884.5	2772.2	2660.0	2547.8	2429.9	2312.1	2199.8	2087.6	1975.4	1857.5	1750.9
67.5°	3445.6	3316.6	3170.7	3013.5	2839.6	2688.1	2542.1	2407.5	2272.8	2138.1	2003.4
65°	4147.1	3967.5	3771.1	3557.9	3355.9	3153.8	2940.6	2738.6	2581.4	2424.3	2272.8
62.5°	5011.3	4758.8	4483.8	4208.9	3961.9	3698.2	3451.3	3187.5	2940.6	2716.1	2530.9
60°	6043.9	5701.6	5364.9	5011.3	4669.0	4309.9	3995.6	3670.1	3361.5	3086.5	2817.1
57.5°	7183.1	6784.7	6380.6	5948.5	5482.7	5061.8	4635.4	4208.9	3844.1	3479.3	3176.3
55°	8339.1	7918.3	7463.7	6975.5	6464.8	5926.1	5348.0	4871.0	4371.6	3945.1	3552.3
52.5°	9439.1	9001.3	8529.9	8081.0	7469.3	6852.0	6217.9	5589.4	5005.7	4461.4	3984.4
50°	10421.1	9994.6	9540.1	9018.2	8451.4	7794.8	7087.7	6380.6	5690.4	5050.6	4455.8
47.5°	11319.0	10903.7	10449.2	9927.3	9411.0	8681.5	7968.8	7188.7	6419.9	5684.8	4988.9
45°	12160.8	11739.9	11268.5	10769.1	10174.2	9523.2	8788.1	8002.4	7177.5	6352.6	5550.1
42.5°	12924.0	12503.1	12026.1	11509.8	10920.6	10275.2	9562.5	8771.3	7940.7	7042.8	6161.8
40°	13591.8	13182.1	12722.0	12183.2	11633.3	10954.2	10252.8	9500.8	8642.2	7738.7	6767.8
37.5°	14175.4	13793.8	13339.3	12806.1	12222.5	11616.4	10892.5	10140.5	9366.1	8384.0	7390.7
35°	14691.7	14338.2	13872.4	13367.3	12794.9	12155.2	11476.1	10741.0	9904.8	8984.5	8019.3
32.5°	15140.6	14781.5	14355.0	13849.9	13294.4	12693.9	11998.0	11257.3	10466.0	9528.8	8479.4
30°	15522.3	15174.3	14770.3	14293.3	13760.1	13165.3	12486.3	11739.9	10931.8	10000.2	8962.1
27.5°	15853.3	15522.3	15129.4	14686.1	14175.4	13603.0	12918.4	12166.4	11341.5	10443.6	9405.4
25°	16139.5	15819.7	15454.9	15034.0	14529.0	13967.8	13322.4	12536.8	11711.8	10808.3	9781.4
22.5°	16397.7	16089.0	15724.3	15314.6	14854.4	14293.3	13642.3	12862.3	12026.1	11133.8	10123.7
20°	16627.8	16341.6	15982.4	15561.5	15101.4	14534.6	13889.2	13148.5	12306.7	11431.2	10432.3
17.5°	16813.0	16560.4	16201.3	15757.9	15297.8	14747.8	14119.3	13440.3	12548.0	11683.8	10690.5
15°	16942.0	16695.1	16369.6	15920.7	15471.7	14927.4	14298.9	13597.4	12766.9	11885.8	10903.7
12.5°	17031.8	16768.1	16465.0	16049.8	15600.8	15062.1	14450.4	13760.1	12952.0	12065.4	11088.9
10°	17054.3	16813.0	16509.9	16139.5	15701.8	15179.9	14579.5	13894.8	13103.6	12205.7	11240.4
7.5°	17065.5	16835.4	16560.4	16206.9	15774.8	15269.7	14674.9	14001.5	13215.8	12323.5	11352.7
5°	17059.9	16841.0	16594.1	16251.8	15819.7	15320.2	14736.6	14074.4	13294.4	12402.1	11436.9
2.5°	17043.1	16846.6	16616.6	16285.5	15870.2	15376.3	14798.3	14158.6	13378.5	12469.4	11504.2
0°	17087.9	16919.6	16627.8	16274.2	15881.4	15376.3	14792.7	14169.8	13389.8	12463.8	11498.6





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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°	140.3	134.7	134.7	129.1	123.5	117.8	106.6	101.0	89.8	73.0	56.1
85°	303.0	286.2	269.4	258.1	246.9	235.7	218.9	202.0	179.6	145.9	112.2
82.5°	533.1	499.5	465.8	426.5	392.8	359.2	331.1	303.0	269.4	218.9	168.4
80°	763.2	712.7	662.2	606.1	555.6	499.5	448.9	404.0	359.2	291.8	224.5
77.5°	993.3	925.9	853.0	785.7	712.7	639.7	566.8	505.1	437.7	359.2	280.6
75°	1206.5	1128.0	1060.6	965.2	875.4	780.0	684.6	600.5	516.3	420.9	336.7
72.5°	1419.8	1318.8	1223.4	1133.6	1032.6	914.7	808.1	701.5	594.9	482.6	381.6
70°	1633.0	1509.6	1391.7	1285.1	1172.9	1055.0	925.9	802.5	673.4	538.7	420.9
67.5°	1851.9	1711.6	1576.9	1442.2	1313.2	1178.5	1043.8	903.5	752.0	594.9	465.8
65°	2093.2	1919.2	1756.5	1605.0	1453.5	1307.6	1156.0	1004.5	836.2	656.6	505.1
62.5°	2334.5	2143.7	1952.9	1762.1	1593.8	1431.0	1268.3	1099.9	914.7	723.9	544.3
60°	2592.7	2373.8	2154.9	1941.7	1734.0	1554.5	1374.9	1195.3	998.9	785.7	583.6
57.5°	2878.9	2615.1	2368.2	2126.9	1891.2	1677.9	1481.5	1290.7	1071.9	847.4	628.5
55°	3204.3	2878.9	2587.0	2317.7	2059.5	1801.4	1588.1	1391.7	1156.0	909.1	679.0
52.5°	3546.7	3170.7	2817.1	2514.1	2239.1	1947.3	1689.2	1470.3	1240.2	970.8	723.9
50°	3945.1	3468.1	3075.3	2704.9	2396.2	2093.2	1795.8	1560.1	1324.4	1043.8	768.8
47.5°	4354.8	3827.3	3333.4	2929.4	2564.6	2233.5	1919.2	1638.6	1403.0	1111.1	813.7
45°	4831.8	4169.6	3625.2	3148.2	2727.3	2379.4	2042.7	1722.8	1470.3	1178.5	858.6
42.5°	5291.9	4573.6	3928.3	3389.5	2912.5	2519.7	2154.9	1812.6	1537.6	1245.8	897.9
40°	5836.3	4977.7	4220.1	3619.6	3097.7	2654.4	2267.2	1908.0	1599.4	1307.6	937.2
37.5°	6358.2	5387.3	4573.6	3872.1	3277.3	2789.1	2379.4	1997.8	1655.5	1369.3	987.7
35°	6874.5	5841.9	4910.3	4107.8	3462.5	2940.6	2491.6	2082.0	1711.6	1419.8	1032.6
32.5°	7368.3	6268.4	5252.6	4371.6	3664.5	3080.9	2592.7	2160.5	1767.7	1464.7	1077.5
30°	7828.5	6672.4	5589.4	4641.0	3849.7	3210.0	2688.1	2239.1	1835.1	1504.0	1122.4
27.5°	8249.4	7065.3	5926.1	4893.5	4023.7	3327.8	2789.1	2312.1	1891.2	1543.2	1161.6
25°	8631.0	7418.8	6234.7	5123.6	4180.8	3456.9	2884.5	2385.0	1941.7	1576.9	1195.3
22.5°	8990.1	7744.3	6515.3	5353.7	4371.6	3585.9	2974.3	2452.4	1992.2	1610.6	1229.0
20°	9304.4	8041.7	6784.7	5583.7	4539.9	3703.8	3052.8	2514.1	2037.1	1633.0	1262.7
17.5°	9556.9	8305.5	7026.0	5785.8	4685.9	3804.8	3120.2	2570.2	2076.4	1661.1	1285.1
15°	9781.4	8529.9	7228.0	5959.7	4814.9	3889.0	3181.9	2615.1	2110.0	1677.9	1313.2
12.5°	9972.2	8720.7	7402.0	6111.3	4927.2	3961.9	3232.4	2648.8	2138.1	1694.8	1330.0
10°	10129.3	8872.3	7547.9	6229.1	5017.0	4018.1	3271.7	2682.4	2160.5	1711.6	1346.8
7.5°	10247.2	8984.5	7654.5	6330.1	5089.9	4057.3	3305.4	2704.9	2183.0	1722.8	1374.9
5°	10336.9	9079.9	7738.7	6397.5	5146.0	4113.5	3344.6	2732.9	2205.4	1734.0	1374.9
2.5°	10404.3	9158.5	7806.0	6453.6	5190.9	4102.2	3344.6	2727.3	2205.4	1734.0	1369.3
0°	10393.1	9164.1	7800.4	6453.6	5190.9	4091.0	3344.6	2721.7	2205.4	1734.0	1369.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	39.3	28.1	11.2	0.0
85°	84.2	56.1	28.1	0.0
82.5°	123.5	78.6	39.3	0.0
80°	162.7	106.6	50.5	0.0
77.5°	207.6	134.7	67.3	0.0
75°	246.9	157.1	78.6	0.0
72.5°	286.2	185.2	89.8	0.0
70°	319.9	207.6	101.0	0.0
67.5°	353.5	235.7	117.8	0.0
65°	381.6	258.1	129.1	0.0
62.5°	404.0	286.2	140.3	0.0
60°	432.1	308.6	151.5	0.0
57.5°	454.6	325.5	162.7	0.0
55°	477.0	336.7	174.0	0.0
52.5°	499.5	353.5	185.2	0.0
50°	521.9	370.4	196.4	0.0
47.5°	544.3	381.6	202.0	0.0
45°	578.0	398.4	213.2	0.0
42.5°	606.1	409.7	224.5	0.0
40°	634.1	420.9	230.1	0.0
37.5°	662.2	432.1	241.3	0.0
35°	690.3	443.3	246.9	0.0
32.5°	712.7	454.6	252.5	0.0
30°	735.1	465.8	258.1	0.0
27.5°	757.6	471.4	263.8	0.0
25°	774.4	482.6	269.4	0.0
22.5°	791.3	488.2	275.0	0.0
20°	802.5	493.8	280.6	0.0
17.5°	819.3	499.5	286.2	0.0
15°	824.9	505.1	297.4	0.0
12.5°	836.2	510.7	297.4	0.0
10°	841.8	516.3	297.4	0.0
7.5°	853.0	516.3	297.4	0.0
5°	847.4	516.3	297.4	0.0
2.5°	847.4	516.3	297.4	0.0
0°	841.8	516.3	297.4	0.0

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