

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: P628419

Luminaire Tested: **IFLD-S-SA3D-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628419  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

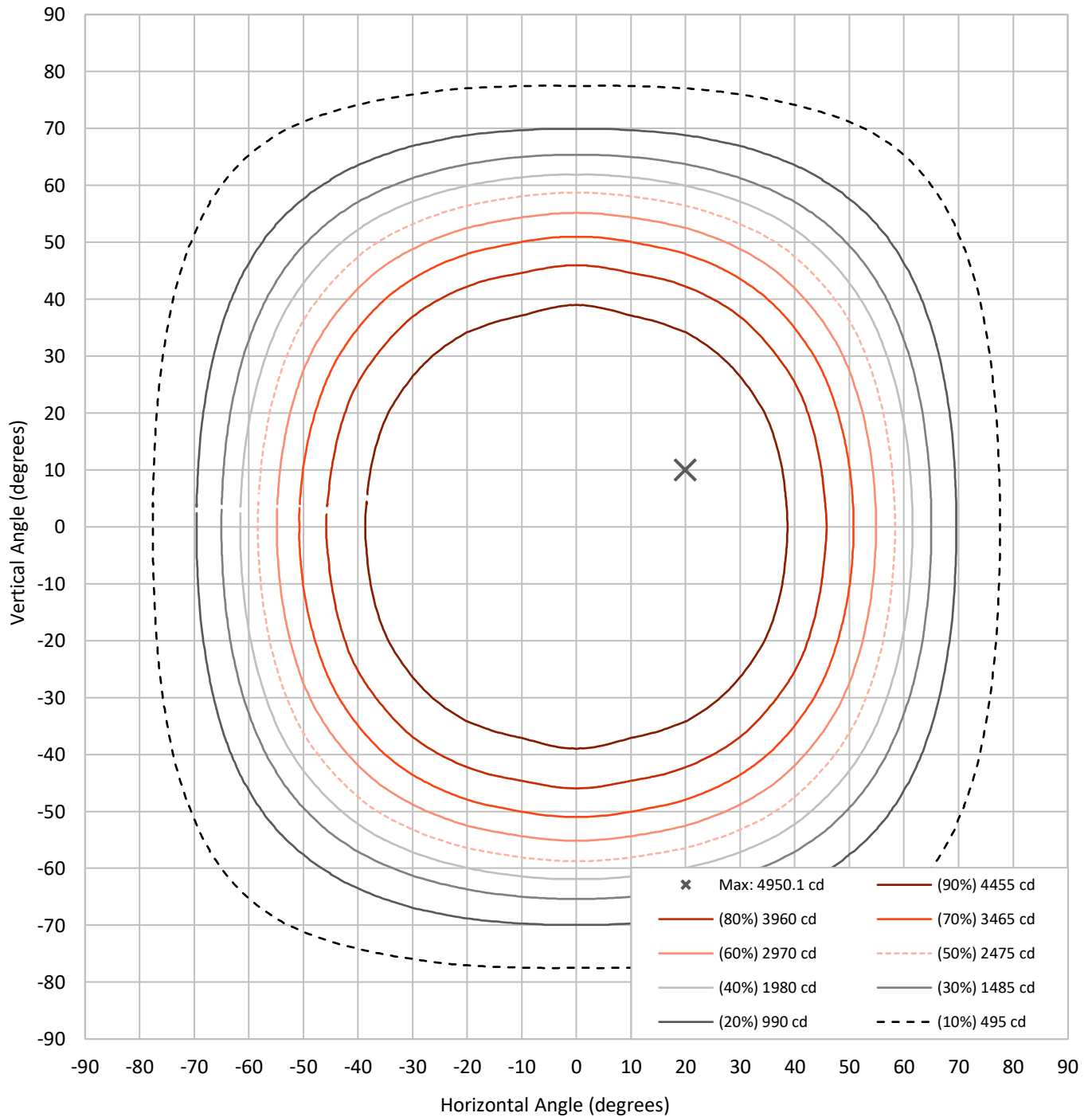
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15186.1 lumens	Max Intensity:	4950.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9318.5 lumens	Field Lumens:	11171.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 184.1  
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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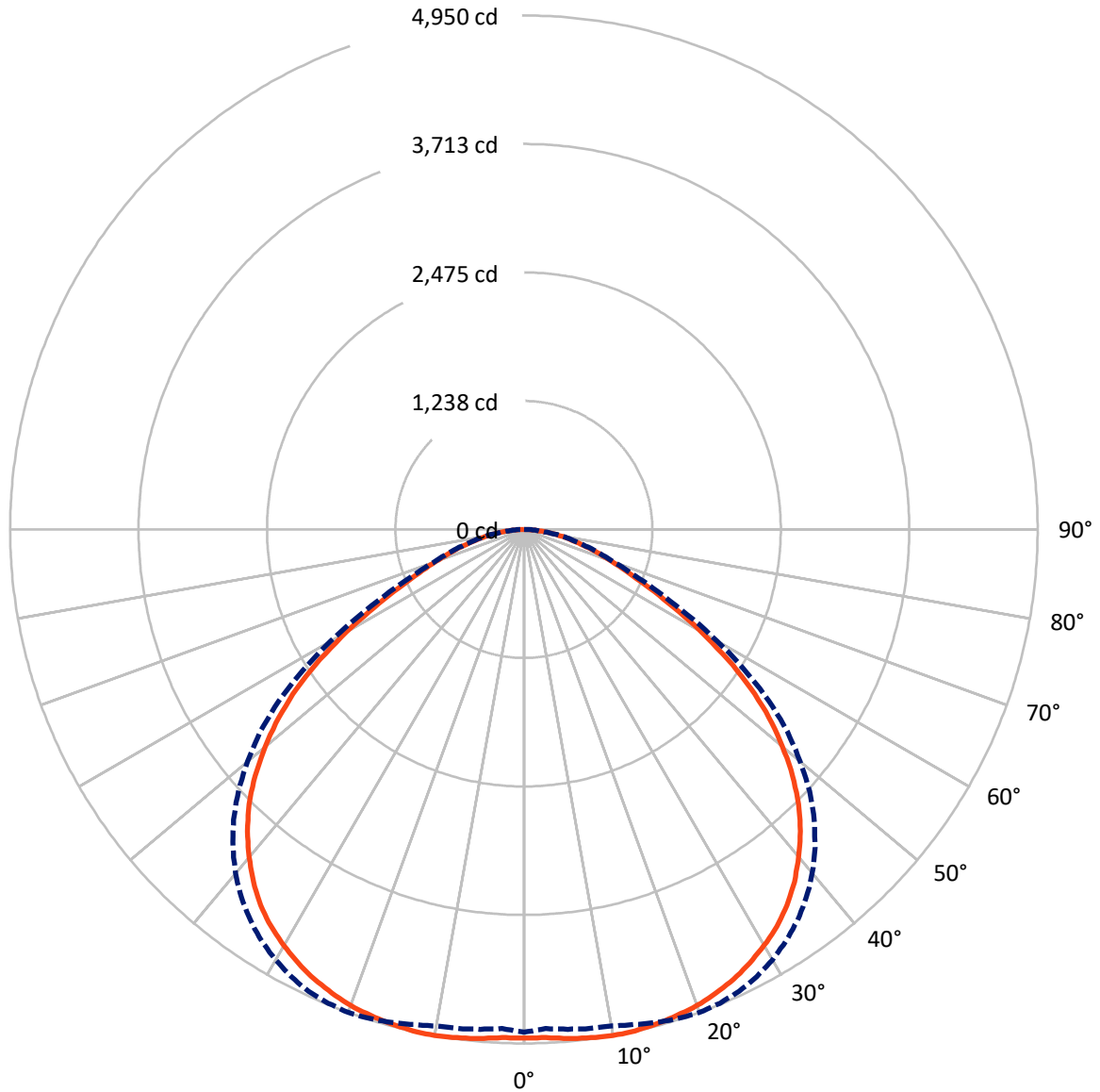
### Iso-Candela Plot





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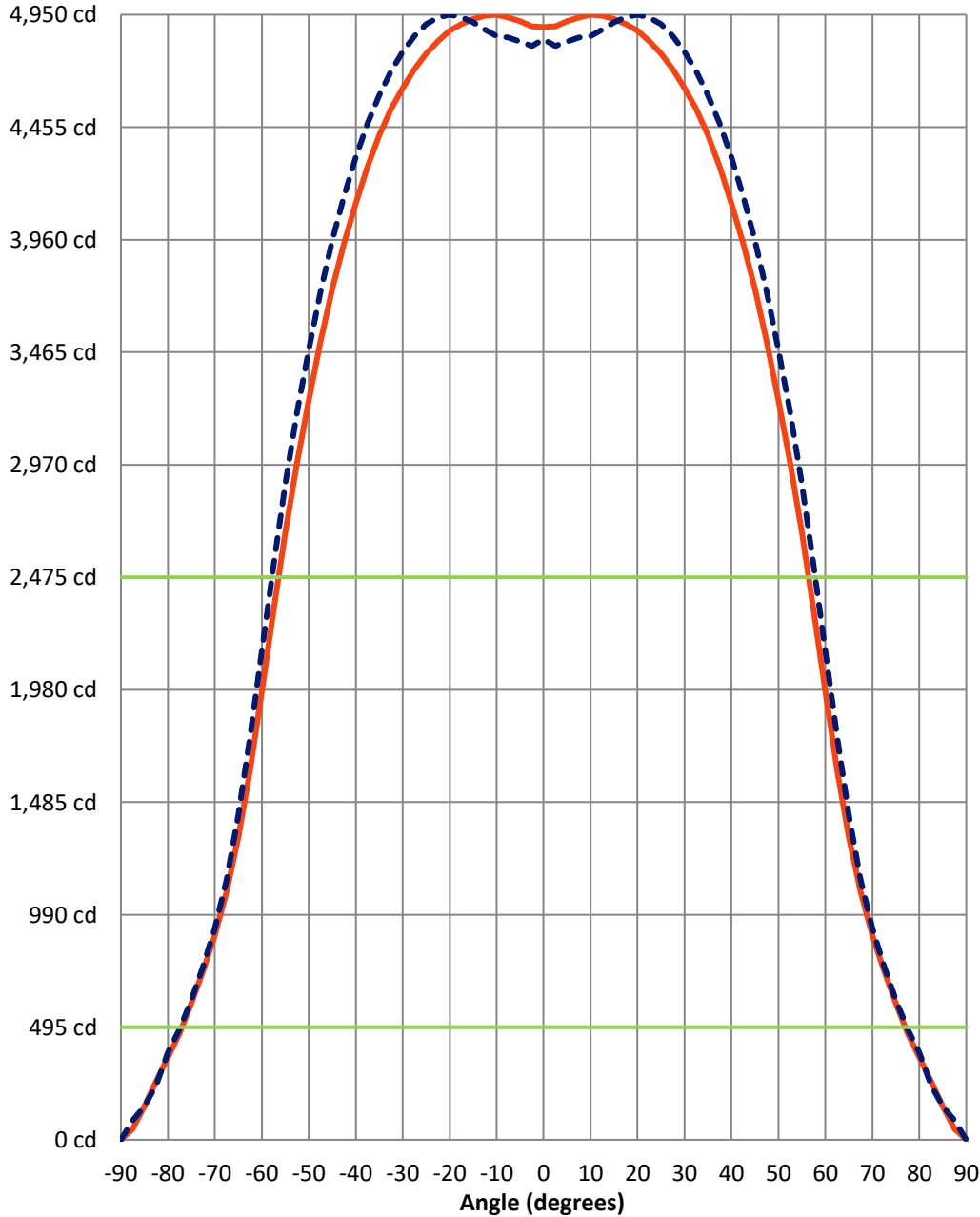
### Luminous Intensity Polar Plot



— 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: 9318.5  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 11171.3  
Efficiency: 73.6%

**Spill:**  
Lumens: 4014.8  
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°	39.9	43.1	44.7	46.3	47.9	49.5	51.1	49.5	47.9	47.9	46.3
85°	107.1	110.2	111.8	123.0	134.2	140.6	148.6	147.0	147.0	145.4	143.8
82.5°	214.1	223.7	231.7	242.9	249.3	258.8	265.2	260.4	257.2	250.9	246.1
80°	380.3	383.5	385.1	386.7	378.7	377.1	373.9	369.1	362.7	354.7	346.7
77.5°	484.1	487.3	490.5	487.3	485.7	484.1	479.3	474.6	468.2	461.8	452.2
75°	640.7	640.7	640.7	635.9	632.7	627.9	620.0	612.0	600.8	588.0	573.6
72.5°	806.9	805.3	803.7	794.1	786.1	776.5	765.4	755.8	743.0	728.6	709.4
70°	981.1	984.3	985.9	973.1	963.5	950.7	936.3	918.7	899.6	878.8	851.6
67.5°	1220.7	1217.5	1214.3	1196.8	1184.0	1166.4	1145.6	1120.1	1091.3	1059.4	1021.0
65°	1517.9	1522.7	1513.1	1495.6	1471.6	1442.8	1410.9	1374.1	1331.0	1283.1	1228.7
62.5°	1877.4	1885.4	1874.2	1851.9	1821.5	1783.2	1738.4	1685.7	1626.6	1559.5	1492.4
60°	2286.5	2284.9	2264.1	2233.8	2193.8	2145.9	2096.3	2038.8	1971.7	1893.4	1811.9
57.5°	2662.0	2658.8	2633.2	2602.9	2562.9	2511.8	2459.1	2398.3	2328.0	2244.9	2150.7
55°	2999.1	2995.9	2970.4	2938.4	2896.9	2845.7	2797.8	2740.3	2671.6	2583.7	2483.0
52.5°	3297.9	3299.5	3277.1	3242.0	3197.2	3147.7	3101.4	3043.9	2978.3	2890.5	2793.0
50°	3572.7	3571.1	3547.2	3515.2	3473.7	3425.7	3379.4	3321.9	3253.2	3168.5	3074.2
47.5°	3828.4	3825.2	3798.0	3762.9	3719.7	3678.2	3635.0	3583.9	3512.0	3427.3	3333.1
45°	4042.5	4036.1	4008.9	3975.4	3933.8	3897.1	3858.7	3820.4	3743.7	3665.4	3575.9
42.5°	4226.2	4224.6	4197.5	4163.9	4122.4	4090.4	4055.3	4007.3	3943.4	3871.5	3783.6
40°	4402.0	4389.2	4362.1	4330.1	4291.8	4264.6	4229.4	4181.5	4119.2	4048.9	3964.2
37.5°	4533.0	4534.6	4505.9	4470.7	4437.2	4411.6	4379.6	4334.9	4280.6	4211.9	4127.2
35°	4657.7	4649.7	4625.7	4595.3	4565.0	4536.2	4502.7	4464.3	4419.6	4355.7	4275.8
32.5°	4739.1	4750.3	4721.6	4689.6	4672.0	4649.7	4614.5	4574.6	4534.6	4470.7	4398.8
30°	4828.6	4819.0	4796.7	4769.5	4756.7	4742.3	4712.0	4673.6	4627.3	4569.8	4502.7
27.5°	4890.9	4886.1	4859.0	4833.4	4827.0	4814.2	4790.3	4756.7	4710.4	4654.5	4592.1
25°	4918.1	4921.3	4895.7	4881.4	4881.4	4873.4	4854.2	4825.4	4779.1	4728.0	4667.2
22.5°	4930.9	4927.7	4910.1	4906.9	4914.9	4908.5	4900.5	4875.0	4833.4	4791.9	4740.7
20°	4938.9	4916.5	4900.5	4913.3	4922.9	4921.3	4914.9	4898.9	4879.8	4844.6	4799.9
17.5°	4921.3	4906.9	4887.7	4906.9	4927.7	4929.3	4922.9	4913.3	4908.5	4886.1	4846.2
15°	4878.2	4867.0	4870.2	4889.3	4913.3	4921.3	4926.1	4937.3	4930.9	4913.3	4878.2
12.5°	4849.4	4835.0	4849.4	4868.6	4881.4	4886.1	4924.5	4945.3	4945.3	4929.3	4906.9
10°	4841.4	4812.6	4831.8	4849.4	4855.8	4884.5	4916.5	4938.9	4950.1	4937.3	4908.5
7.5°	4825.4	4806.3	4814.2	4822.2	4859.0	4879.8	4897.3	4921.3	4937.3	4935.7	4910.1
5°	4817.4	4793.5	4796.7	4830.2	4855.8	4870.2	4876.6	4897.3	4921.3	4926.1	4906.9
2.5°	4796.7	4785.5	4809.5	4812.6	4831.8	4843.0	4849.4	4868.6	4898.9	4910.1	4902.1
0°	4785.5	4769.5	4753.5	4766.3	4798.3	4822.2	4831.8	4860.6	4895.7	4906.9	4889.3



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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°	44.7	43.1	41.5	39.9	41.5	41.5	41.5	39.9	41.5	39.9	39.9
85°	139.0	132.6	127.8	121.4	115.0	110.2	103.9	97.5	95.9	94.3	91.1
82.5°	239.7	231.7	223.7	214.1	204.5	193.3	182.2	169.4	166.2	163.0	158.2
80°	337.1	326.0	314.8	303.6	294.0	282.8	270.0	255.7	246.1	238.1	228.5
77.5°	439.4	423.4	407.4	388.3	377.1	365.9	353.1	338.7	324.4	311.6	297.2
75°	556.0	538.5	522.5	503.3	482.5	461.8	441.0	421.8	401.1	381.9	362.7
72.5°	685.5	659.9	634.3	610.4	584.8	559.2	532.1	506.5	480.9	455.4	428.2
70°	821.3	789.3	757.4	725.4	691.9	658.3	626.3	594.4	562.4	528.9	498.5
67.5°	981.1	944.3	902.8	858.0	808.5	765.4	723.8	685.5	647.1	608.8	570.4
65°	1180.8	1129.7	1073.7	1013.0	955.5	898.0	837.3	779.7	735.0	690.3	647.1
62.5°	1426.9	1355.0	1276.7	1198.4	1128.1	1053.0	982.7	907.6	837.3	773.3	720.6
60°	1720.9	1623.4	1527.5	1426.9	1329.4	1227.1	1137.7	1045.0	957.1	878.8	802.1
57.5°	2045.2	1931.8	1816.7	1693.7	1561.1	1441.2	1319.8	1198.4	1094.5	990.7	904.4
55°	2374.4	2254.5	2125.1	1986.1	1840.7	1687.3	1522.7	1386.9	1244.7	1123.3	1011.4
52.5°	2687.5	2562.9	2428.7	2300.9	2126.7	1950.9	1770.4	1591.4	1425.3	1270.3	1134.5
50°	2967.2	2845.7	2716.3	2567.7	2406.3	2219.4	2018.1	1816.7	1620.2	1438.0	1268.7
47.5°	3222.8	3104.6	2975.1	2826.6	2679.6	2471.8	2268.9	2046.8	1827.9	1618.6	1420.5
45°	3462.5	3342.6	3208.4	3066.2	2896.9	2711.5	2502.2	2278.5	2043.6	1808.7	1580.2
42.5°	3679.8	3560.0	3424.1	3277.1	3109.4	2925.6	2722.7	2497.4	2260.9	2005.3	1754.4
40°	3869.9	3753.3	3622.3	3468.9	3312.3	3119.0	2919.2	2705.1	2460.6	2203.4	1927.0
37.5°	4036.1	3927.5	3798.0	3646.2	3480.1	3307.5	3101.4	2887.3	2666.8	2387.1	2104.3
35°	4183.1	4082.4	3949.8	3806.0	3643.0	3460.9	3267.6	3058.2	2820.2	2558.1	2283.3
32.5°	4310.9	4208.7	4087.2	3943.4	3785.2	3614.3	3416.1	3205.2	2979.9	2713.1	2414.3
30°	4419.6	4320.5	4205.5	4069.7	3917.9	3748.5	3555.2	3342.6	3112.6	2847.3	2551.7
27.5°	4513.9	4419.6	4307.7	4181.5	4036.1	3873.1	3678.2	3464.1	3229.2	2973.6	2678.0
25°	4595.3	4504.3	4400.4	4280.6	4136.8	3977.0	3793.2	3569.5	3334.7	3077.4	2785.0
22.5°	4668.8	4581.0	4477.1	4360.5	4229.4	4069.7	3884.3	3662.2	3424.1	3170.1	2882.5
20°	4734.4	4652.9	4550.6	4430.8	4299.7	4138.4	3954.6	3743.7	3504.0	3254.8	2970.4
17.5°	4787.1	4715.2	4612.9	4486.7	4355.7	4199.1	4020.1	3826.8	3572.7	3326.7	3043.9
15°	4823.8	4753.5	4660.9	4533.0	4405.2	4250.2	4071.3	3871.5	3635.0	3384.2	3104.6
12.5°	4849.4	4774.3	4688.0	4569.8	4442.0	4288.6	4114.4	3917.9	3687.8	3435.3	3157.3
10°	4855.8	4787.1	4700.8	4595.3	4470.7	4322.1	4151.1	3956.2	3730.9	3475.3	3200.4
7.5°	4859.0	4793.5	4715.2	4614.5	4491.5	4347.7	4178.3	3986.6	3762.9	3508.8	3232.4
5°	4857.4	4795.1	4724.8	4627.3	4504.3	4362.1	4195.9	4007.3	3785.2	3531.2	3256.4
2.5°	4852.6	4796.7	4731.2	4636.9	4518.6	4378.0	4213.5	4031.3	3809.2	3550.4	3275.5
0°	4865.4	4817.4	4734.4	4633.7	4521.8	4378.0	4211.9	4034.5	3812.4	3548.8	3273.9





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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°	39.9	38.3	38.3	36.7	35.2	33.6	30.4	28.8	25.6	20.8	16.0
85°	86.3	81.5	76.7	73.5	70.3	67.1	62.3	57.5	51.1	41.5	32.0
82.5°	151.8	142.2	132.6	121.4	111.8	102.3	94.3	86.3	76.7	62.3	47.9
80°	217.3	202.9	188.5	172.6	158.2	142.2	127.8	115.0	102.3	83.1	63.9
77.5°	282.8	263.6	242.9	223.7	202.9	182.2	161.4	143.8	124.6	102.3	79.9
75°	343.5	321.2	302.0	274.8	249.3	222.1	194.9	171.0	147.0	119.8	95.9
72.5°	404.2	375.5	348.3	322.8	294.0	260.4	230.1	199.7	169.4	137.4	108.7
70°	465.0	429.8	396.3	365.9	333.9	300.4	263.6	228.5	191.7	153.4	119.8
67.5°	527.3	487.3	449.0	410.6	373.9	335.5	297.2	257.2	214.1	169.4	132.6
65°	596.0	546.5	500.1	457.0	413.8	372.3	329.2	286.0	238.1	186.9	143.8
62.5°	664.7	610.4	556.0	501.7	453.8	407.4	361.1	313.2	260.4	206.1	155.0
60°	738.2	675.9	613.6	552.8	493.7	442.6	391.5	340.3	284.4	223.7	166.2
57.5°	819.7	744.6	674.3	605.6	538.5	477.7	421.8	367.5	305.2	241.3	179.0
55°	912.4	819.7	736.6	659.9	586.4	512.9	452.2	396.3	329.2	258.8	193.3
52.5°	1009.8	902.8	802.1	715.8	637.5	554.4	480.9	418.6	353.1	276.4	206.1
50°	1123.3	987.5	875.6	770.2	682.3	596.0	511.3	444.2	377.1	297.2	218.9
47.5°	1239.9	1089.7	949.1	834.1	730.2	635.9	546.5	466.6	399.5	316.4	231.7
45°	1375.7	1187.2	1032.2	896.4	776.5	677.5	581.6	490.5	418.6	335.5	244.5
42.5°	1506.7	1302.2	1118.5	965.1	829.3	717.4	613.6	516.1	437.8	354.7	255.7
40°	1661.7	1417.3	1201.6	1030.6	882.0	755.8	645.5	543.3	455.4	372.3	266.8
37.5°	1810.3	1533.9	1302.2	1102.5	933.1	794.1	677.5	568.8	471.4	389.9	281.2
35°	1957.3	1663.3	1398.1	1169.6	985.9	837.3	709.4	592.8	487.3	404.2	294.0
32.5°	2097.9	1784.8	1495.6	1244.7	1043.4	877.2	738.2	615.2	503.3	417.0	306.8
30°	2229.0	1899.8	1591.4	1321.4	1096.1	914.0	765.4	637.5	522.5	428.2	319.6
27.5°	2348.8	2011.7	1687.3	1393.3	1145.6	947.5	794.1	658.3	538.5	439.4	330.7
25°	2457.5	2112.3	1775.2	1458.8	1190.4	984.3	821.3	679.1	552.8	449.0	340.3
22.5°	2559.7	2205.0	1855.1	1524.3	1244.7	1021.0	846.8	698.2	567.2	458.6	349.9
20°	2649.2	2289.7	1931.8	1589.8	1292.6	1054.6	869.2	715.8	580.0	465.0	359.5
17.5°	2721.1	2364.8	2000.5	1647.4	1334.2	1083.3	888.4	731.8	591.2	473.0	365.9
15°	2785.0	2428.7	2058.0	1696.9	1370.9	1107.3	906.0	744.6	600.8	477.7	373.9
12.5°	2839.3	2483.0	2107.5	1740.0	1402.9	1128.1	920.3	754.2	608.8	482.5	378.7
10°	2884.1	2526.2	2149.1	1773.6	1428.5	1144.0	931.5	763.8	615.2	487.3	383.5
7.5°	2917.6	2558.1	2179.4	1802.3	1449.2	1155.2	941.1	770.2	621.6	490.5	391.5
5°	2943.2	2585.3	2203.4	1821.5	1465.2	1171.2	952.3	778.1	627.9	493.7	391.5
2.5°	2962.4	2607.6	2222.6	1837.5	1478.0	1168.0	952.3	776.5	627.9	493.7	389.9
0°	2959.2	2609.2	2221.0	1837.5	1478.0	1164.8	952.3	774.9	627.9	493.7	389.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.2	8.0	3.2	0.0
85°	24.0	16.0	8.0	0.0
82.5°	35.2	22.4	11.2	0.0
80°	46.3	30.4	14.4	0.0
77.5°	59.1	38.3	19.2	0.0
75°	70.3	44.7	22.4	0.0
72.5°	81.5	52.7	25.6	0.0
70°	91.1	59.1	28.8	0.0
67.5°	100.7	67.1	33.6	0.0
65°	108.7	73.5	36.7	0.0
62.5°	115.0	81.5	39.9	0.0
60°	123.0	87.9	43.1	0.0
57.5°	129.4	92.7	46.3	0.0
55°	135.8	95.9	49.5	0.0
52.5°	142.2	100.7	52.7	0.0
50°	148.6	105.5	55.9	0.0
47.5°	155.0	108.7	57.5	0.0
45°	164.6	113.4	60.7	0.0
42.5°	172.6	116.6	63.9	0.0
40°	180.6	119.8	65.5	0.0
37.5°	188.5	123.0	68.7	0.0
35°	196.5	126.2	70.3	0.0
32.5°	202.9	129.4	71.9	0.0
30°	209.3	132.6	73.5	0.0
27.5°	215.7	134.2	75.1	0.0
25°	220.5	137.4	76.7	0.0
22.5°	225.3	139.0	78.3	0.0
20°	228.5	140.6	79.9	0.0
17.5°	233.3	142.2	81.5	0.0
15°	234.9	143.8	84.7	0.0
12.5°	238.1	145.4	84.7	0.0
10°	239.7	147.0	84.7	0.0
7.5°	242.9	147.0	84.7	0.0
5°	241.3	147.0	84.7	0.0
2.5°	241.3	147.0	84.7	0.0
0°	239.7	147.0	84.7	0.0

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