

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: P628367

Luminaire Tested: **IFLD-S-SA6E-827-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628367  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	40031 lumens	Max Intensity:	13048.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

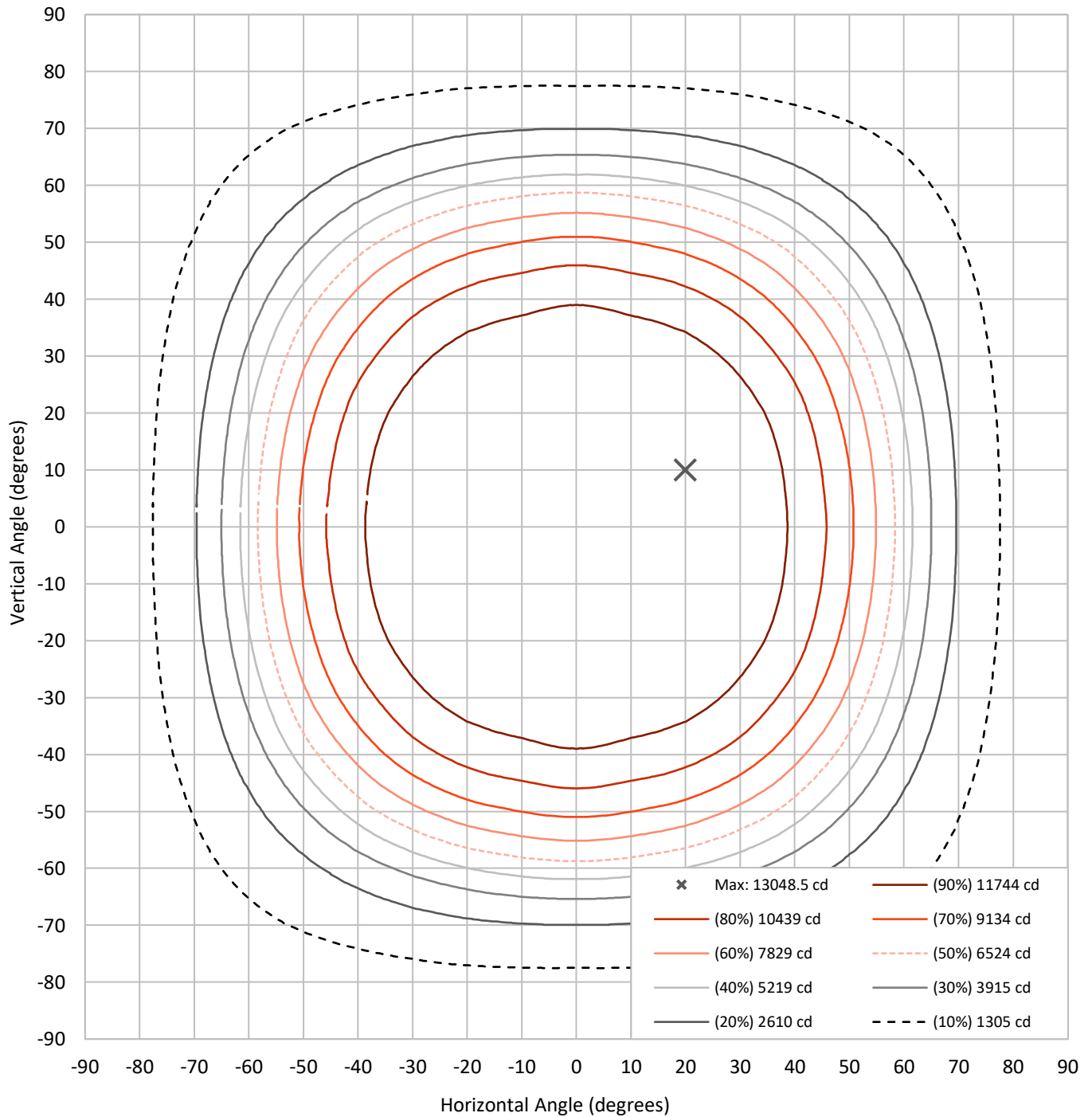
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	24563.8 lumens	Field Lumens:	29447.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2  
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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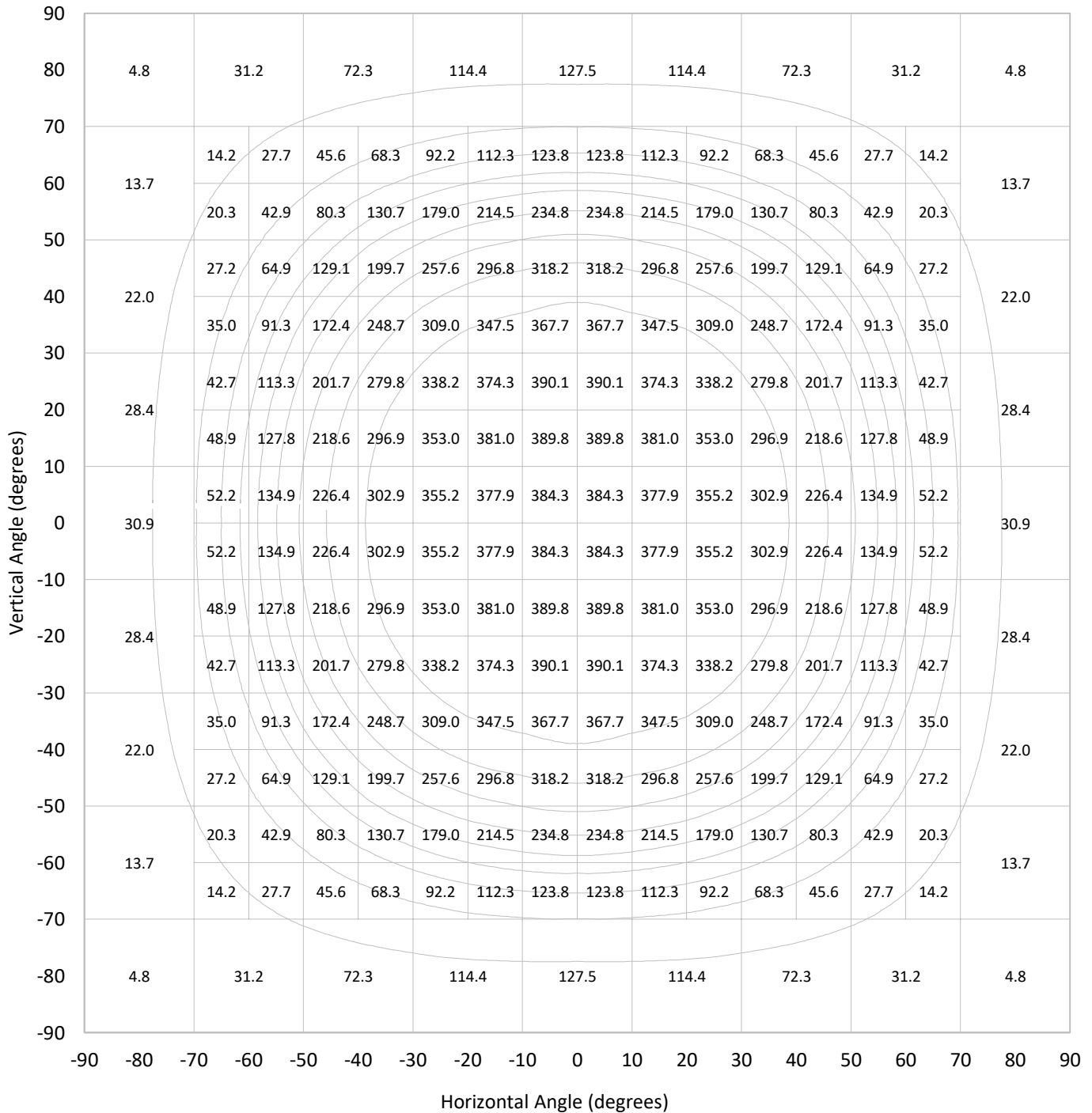
### Iso-Candela Plot





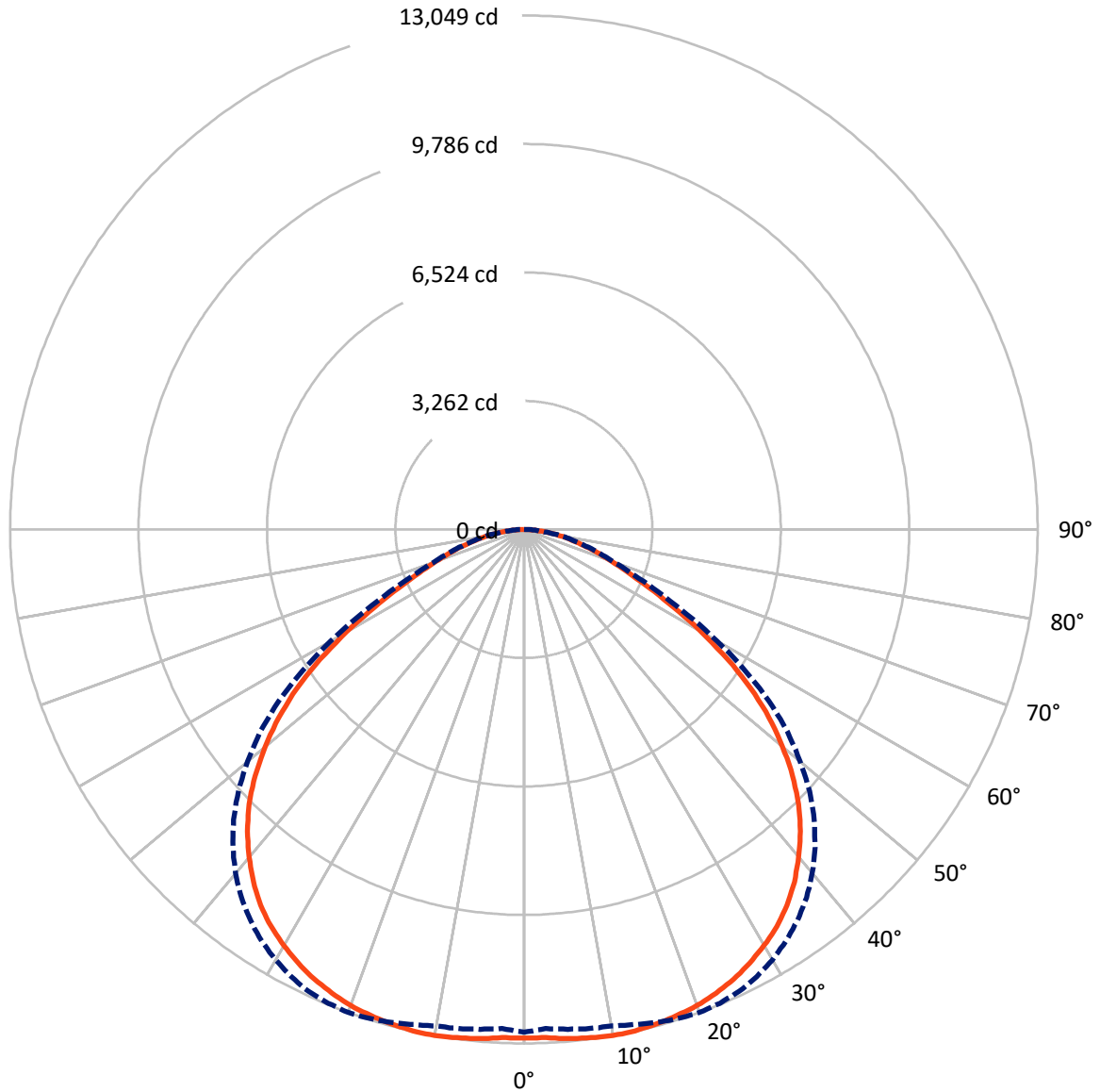
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### Lumen Table



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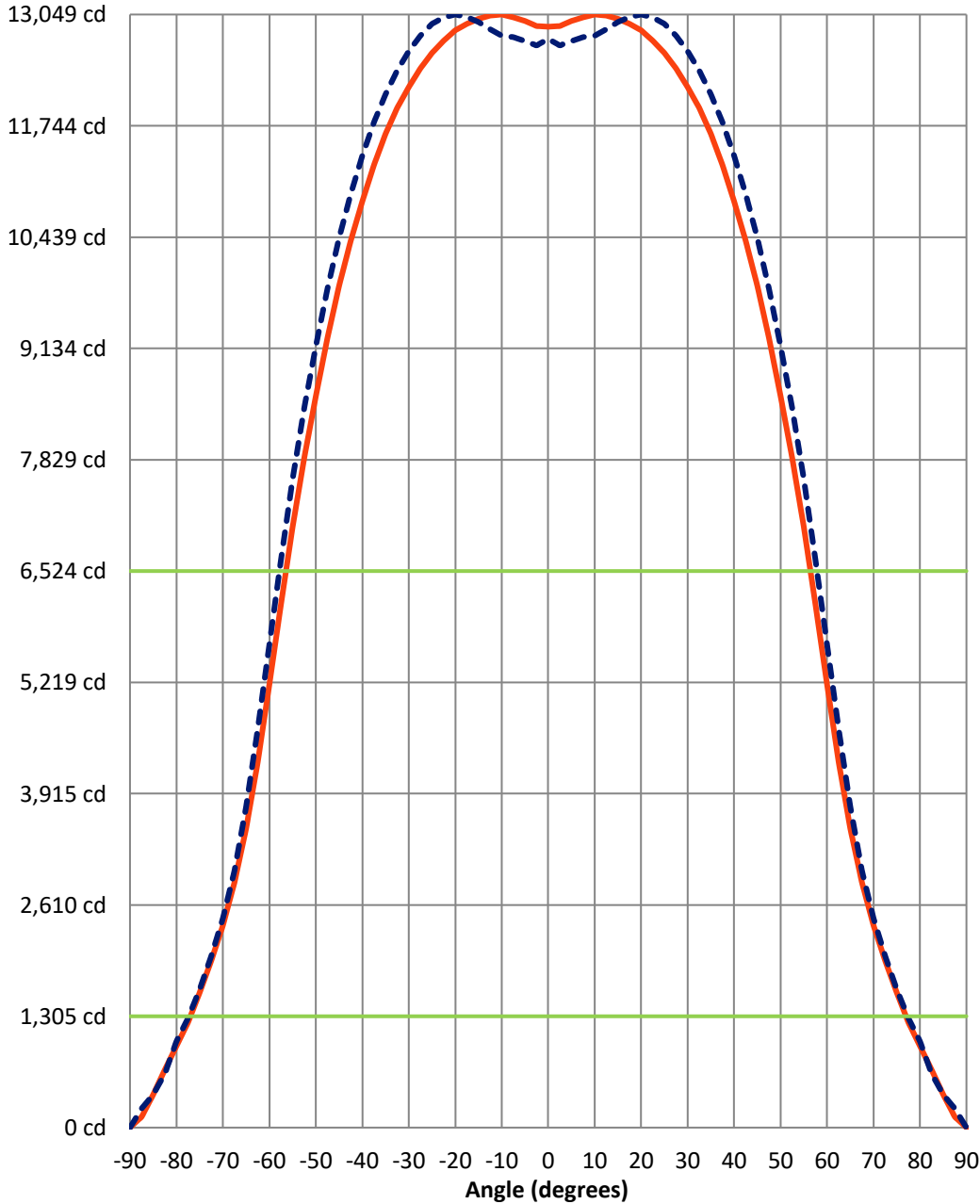
### Luminous Intensity Polar Plot



— 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: 24563.8  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 29447.8  
Efficiency: 73.6%

**Spill:**  
Lumens: 10583.1  
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°	105.3	113.7	117.9	122.1	126.4	130.6	134.8	130.6	126.4	126.4	122.1
85°	282.2	290.6	294.8	324.3	353.8	370.6	391.7	387.5	383.3	383.3	379.1
82.5°	564.4	589.7	610.7	640.2	657.1	682.3	699.2	686.5	661.3	661.3	648.6
80°	1002.4	1010.9	1015.1	1019.3	998.2	994.0	985.6	973.0	935.0	935.0	914.0
77.5°	1276.2	1284.6	1293.1	1284.6	1280.4	1276.2	1263.6	1250.9	1217.2	1217.2	1192.0
75°	1689.0	1689.0	1689.0	1676.3	1667.9	1655.3	1634.2	1613.2	1550.0	1550.0	1512.1
72.5°	2127.0	2122.8	2118.6	2093.3	2072.3	2047.0	2017.5	1992.2	1920.6	1920.6	1870.1
70°	2586.1	2594.5	2598.7	2565.1	2539.8	2506.1	2468.2	2421.8	2316.5	2316.5	2244.9
67.5°	3217.9	3209.5	3201.0	3154.7	3121.0	3074.7	3019.9	2952.5	2792.5	2792.5	2691.4
65°	4001.3	4013.9	3988.7	3942.3	3879.2	3803.4	3719.1	3622.2	3382.2	3382.2	3239.0
62.5°	4949.0	4970.0	4940.6	4881.6	4801.6	4700.5	4582.6	4443.6	4110.8	4110.8	3933.9
60°	6027.2	6023.0	5968.3	5888.2	5782.9	5656.6	5526.0	5374.4	4991.1	4991.1	4776.3
57.5°	7017.0	7008.6	6941.2	6861.2	6755.9	6621.1	6482.1	6322.1	5917.7	5917.7	5669.2
55°	7905.7	7897.3	7829.9	7745.7	7636.2	7501.4	7375.0	7223.4	6810.7	6810.7	6545.3
52.5°	8693.4	8697.6	8638.6	8546.0	8428.0	8297.5	8175.3	8023.7	7619.3	7619.3	7362.4
50°	9417.8	9413.6	9350.4	9266.2	9156.7	9030.3	8908.2	8756.6	8352.2	8352.2	8103.7
47.5°	10091.7	10083.3	10011.7	9919.0	9805.3	9695.8	9582.1	9447.3	9034.5	9034.5	8786.0
45°	10656.1	10639.3	10567.7	10479.2	10369.7	10272.8	10171.8	10070.7	9662.1	9662.1	9426.2
42.5°	11140.5	11136.3	11064.7	10976.2	10866.7	10782.5	10689.8	10563.5	10205.4	10205.4	9973.8
40°	11603.8	11570.1	11498.5	11414.3	11313.2	11241.6	11148.9	11022.6	10673.0	10673.0	10449.7
37.5°	11949.2	11953.4	11877.6	11784.9	11696.5	11629.1	11544.8	11426.9	11102.6	11102.6	10879.4
35°	12277.7	12256.6	12193.5	12113.4	12033.4	11957.6	11869.2	11768.1	11481.7	11481.7	11271.1
32.5°	12492.5	12522.0	12446.2	12361.9	12315.6	12256.6	12164.0	12058.7	11784.9	11784.9	11595.4
30°	12728.4	12703.1	12644.1	12572.5	12538.8	12500.9	12420.9	12319.8	12046.1	12046.1	11869.2
27.5°	12892.6	12880.0	12808.4	12741.0	12724.2	12690.5	12627.3	12538.8	12269.3	12269.3	12105.0
25°	12964.2	12972.7	12905.3	12867.4	12867.4	12846.3	12795.8	12720.0	12463.0	12463.0	12303.0
22.5°	12997.9	12989.5	12943.2	12934.8	12955.8	12939.0	12917.9	12850.5	12631.5	12631.5	12496.7
20°	13019.0	12960.0	12917.9	12951.6	12976.9	12972.7	12955.8	12913.7	12770.5	12770.5	12652.6
17.5°	12972.7	12934.8	12884.2	12934.8	12989.5	12993.7	12976.9	12951.6	12880.0	12880.0	12774.7
15°	12858.9	12829.5	12837.9	12888.4	12951.6	12972.7	12985.3	13014.8	12951.6	12951.6	12858.9
12.5°	12783.1	12745.2	12783.1	12833.7	12867.4	12880.0	12981.1	13035.8	12993.7	12993.7	12934.8
10°	12762.1	12686.3	12736.8	12783.1	12800.0	12875.8	12960.0	13019.0	13048.5	13014.8	12939.0
7.5°	12720.0	12669.4	12690.5	12711.5	12808.4	12863.2	12909.5	12972.7	13014.8	13010.6	12943.2
5°	12698.9	12635.7	12644.1	12732.6	12800.0	12837.9	12854.7	12909.5	12972.7	12985.3	12934.8
2.5°	12644.1	12614.7	12677.8	12686.3	12736.8	12766.3	12783.1	12833.7	12913.7	12943.2	12922.1
0°	12614.7	12572.5	12530.4	12564.1	12648.4	12711.5	12736.8	12812.6	12905.3	12934.8	12888.4



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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°	117.9	113.7	109.5	105.3	109.5	109.5	109.5	105.3	109.5	105.3	105.3
85°	366.4	349.6	337.0	320.1	303.3	290.6	273.8	256.9	252.7	248.5	240.1
82.5°	631.8	610.7	589.7	564.4	539.1	509.6	480.2	446.5	438.0	429.6	417.0
80°	888.7	859.2	829.7	800.3	775.0	745.5	711.8	673.9	648.6	627.6	602.3
77.5°	1158.3	1116.2	1074.0	1023.5	994.0	964.5	930.8	892.9	855.0	821.3	783.4
75°	1465.7	1419.4	1377.3	1326.8	1272.0	1217.2	1162.5	1111.9	1057.2	1006.6	956.1
72.5°	1806.9	1739.5	1672.1	1608.9	1541.6	1474.2	1402.6	1335.2	1267.8	1200.4	1128.8
70°	2164.9	2080.7	1996.4	1912.2	1823.8	1735.3	1651.1	1566.8	1482.6	1394.1	1314.1
67.5°	2586.1	2489.2	2379.7	2261.8	2131.2	2017.5	1908.0	1806.9	1705.8	1604.7	1503.7
65°	3112.6	2977.8	2830.4	2670.3	2518.7	2367.1	2207.0	2055.4	1937.5	1819.5	1705.8
62.5°	3761.2	3571.7	3365.3	3158.9	2973.6	2775.6	2590.3	2392.4	2207.0	2038.6	1899.6
60°	4536.2	4279.3	4026.6	3761.2	3504.3	3234.7	2998.9	2754.6	2522.9	2316.5	2114.4
57.5°	5391.2	5092.2	4788.9	4464.6	4115.0	3799.1	3479.0	3158.9	2885.2	2611.4	2383.9
55°	6258.9	5943.0	5601.8	5235.4	4852.1	4447.8	4013.9	3655.9	3281.1	2961.0	2666.1
52.5°	7084.4	6755.9	6402.1	6065.1	5606.0	5142.7	4666.8	4195.1	3757.0	3348.5	2990.5
50°	7821.5	7501.4	7160.2	6768.5	6343.1	5850.3	5319.6	4788.9	4270.9	3790.7	3344.3
47.5°	8495.4	8183.7	7842.6	7450.9	7063.4	6515.8	5980.9	5395.5	4818.4	4266.7	3744.4
45°	9127.2	8811.3	8457.5	8082.6	7636.2	7147.6	6595.8	6006.2	5387.0	4767.9	4165.6
42.5°	9700.0	9384.1	9026.1	8638.6	8196.4	7712.0	7177.1	6583.2	5959.8	5285.9	4624.7
40°	10201.2	9893.8	9548.4	9144.0	8731.3	8221.6	7695.2	7130.8	6486.3	5808.2	5079.6
37.5°	10639.3	10352.9	10011.7	9611.6	9173.5	8718.6	8175.3	7610.9	7029.7	6292.6	5547.1
35°	11026.8	10761.4	10411.8	10032.8	9603.1	9123.0	8613.3	8061.6	7434.0	6743.3	6018.8
32.5°	11363.7	11094.2	10774.1	10395.0	9978.0	9527.3	9005.1	8449.1	7855.2	7151.8	6364.2
30°	11650.1	11389.0	11085.7	10727.7	10327.6	9881.1	9371.5	8811.3	8204.8	7505.6	6726.4
27.5°	11898.6	11650.1	11355.3	11022.6	10639.3	10209.7	9695.8	9131.4	8512.3	7838.4	7059.2
25°	12113.4	11873.4	11599.6	11283.7	10904.6	10483.4	9999.1	9409.4	8790.2	8112.1	7341.4
22.5°	12307.2	12075.5	11801.8	11494.3	11148.9	10727.7	10239.1	9653.7	9026.1	8356.4	7598.3
20°	12479.9	12265.1	11995.5	11679.6	11334.2	10908.8	10424.5	9868.5	9236.7	8579.7	7829.9
17.5°	12618.9	12429.3	12159.8	11827.0	11481.7	11068.9	10597.2	10087.5	9417.8	8769.2	8023.7
15°	12715.7	12530.4	12286.1	11949.2	11612.2	11203.7	10731.9	10205.4	9582.1	8920.8	8183.7
12.5°	12783.1	12585.2	12357.7	12046.1	11709.1	11304.8	10845.7	10327.6	9721.1	9055.6	8322.7
10°	12800.0	12618.9	12391.4	12113.4	11784.9	11393.2	10942.5	10428.7	9834.8	9160.9	8436.4
7.5°	12808.4	12635.7	12429.3	12164.0	11839.7	11460.6	11014.1	10508.7	9919.0	9249.3	8520.7
5°	12804.2	12639.9	12454.6	12197.7	11873.4	11498.5	11060.5	10563.5	9978.0	9308.3	8583.9
2.5°	12791.6	12644.1	12471.5	12223.0	11911.3	11540.6	11106.8	10626.6	10041.2	9358.9	8634.4
0°	12825.3	12698.9	12479.9	12214.5	11919.7	11540.6	11102.6	10635.1	10049.6	9354.6	8630.2





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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°	105.3	101.1	101.1	96.9	92.7	88.5	80.0	75.8	67.4	54.8	42.1
85°	227.4	214.8	202.2	193.7	185.3	176.9	164.3	151.6	134.8	109.5	84.2
82.5°	400.1	374.9	349.6	320.1	294.8	269.6	248.5	227.4	202.2	164.3	126.4
80°	572.8	534.9	497.0	454.9	417.0	374.9	337.0	303.3	269.6	219.0	168.5
77.5°	745.5	695.0	640.2	589.7	534.9	480.2	425.4	379.1	328.5	269.6	210.6
75°	905.6	846.6	796.1	724.4	657.1	585.5	513.9	450.7	387.5	315.9	252.7
72.5°	1065.6	989.8	918.2	850.8	775.0	686.5	606.5	526.5	446.5	362.2	286.4
70°	1225.7	1133.0	1044.6	964.5	880.3	791.8	695.0	602.3	505.4	404.3	315.9
67.5°	1389.9	1284.6	1183.5	1082.5	985.6	884.5	783.4	678.1	564.4	446.5	349.6
65°	1571.0	1440.5	1318.3	1204.6	1090.9	981.4	867.7	753.9	627.6	492.8	379.1
62.5°	1752.2	1608.9	1465.7	1322.5	1196.2	1074.0	951.9	825.5	686.5	543.3	408.6
60°	1945.9	1781.6	1617.4	1457.3	1301.5	1166.7	1031.9	897.1	749.7	589.7	438.0
57.5°	2160.7	1962.7	1777.4	1596.3	1419.4	1259.4	1111.9	968.7	804.5	636.0	471.7
55°	2405.0	2160.7	1941.7	1739.5	1545.8	1352.0	1192.0	1044.6	867.7	682.3	509.6
52.5°	2661.9	2379.7	2114.4	1886.9	1680.6	1461.5	1267.8	1103.5	930.8	728.7	543.3
50°	2961.0	2603.0	2308.1	2030.1	1798.5	1571.0	1347.8	1170.9	994.0	783.4	577.0
47.5°	3268.4	2872.5	2501.9	2198.6	1924.8	1676.3	1440.5	1229.9	1053.0	834.0	610.7
45°	3626.5	3129.4	2720.9	2362.9	2047.0	1785.8	1533.1	1293.1	1103.5	884.5	644.4
42.5°	3971.8	3432.7	2948.3	2544.0	2186.0	1891.1	1617.4	1360.4	1154.1	935.0	673.9
40°	4380.4	3736.0	3167.4	2716.7	2325.0	1992.2	1701.6	1432.0	1200.4	981.4	703.4
37.5°	4772.1	4043.4	3432.7	2906.2	2459.8	2093.3	1785.8	1499.4	1242.5	1027.7	741.3
35°	5159.6	4384.6	3685.4	3083.1	2598.7	2207.0	1870.1	1562.6	1284.6	1065.6	775.0
32.5°	5530.2	4704.7	3942.3	3281.1	2750.4	2312.3	1945.9	1621.6	1326.8	1099.3	808.7
30°	5875.6	5008.0	4195.1	3483.2	2889.4	2409.2	2017.5	1680.6	1377.3	1128.8	842.4
27.5°	6191.5	5302.8	4447.8	3672.8	3019.9	2497.7	2093.3	1735.3	1419.4	1158.3	871.9
25°	6477.9	5568.1	4679.4	3845.5	3137.9	2594.5	2164.9	1790.1	1457.3	1183.5	897.1
22.5°	6747.5	5812.4	4890.0	4018.2	3281.1	2691.4	2232.3	1840.6	1495.2	1208.8	922.4
20°	6983.3	6035.7	5092.2	4190.8	3407.4	2779.9	2291.3	1886.9	1528.9	1225.7	947.7
17.5°	7172.9	6233.6	5273.3	4342.5	3516.9	2855.7	2341.8	1929.1	1558.4	1246.7	964.5
15°	7341.4	6402.1	5424.9	4473.0	3613.8	2918.9	2388.2	1962.7	1583.7	1259.4	985.6
12.5°	7484.6	6545.3	5555.5	4586.8	3698.1	2973.6	2426.1	1988.0	1604.7	1272.0	998.2
10°	7602.5	6659.0	5665.0	4675.2	3765.4	3015.7	2455.5	2013.3	1621.6	1284.6	1010.9
7.5°	7690.9	6743.3	5745.0	4751.0	3820.2	3045.2	2480.8	2030.1	1638.4	1293.1	1031.9
5°	7758.3	6814.9	5808.2	4801.6	3862.3	3087.3	2510.3	2051.2	1655.3	1301.5	1031.9
2.5°	7808.9	6873.8	5858.8	4843.7	3896.0	3078.9	2510.3	2047.0	1655.3	1301.5	1027.7
0°	7800.5	6878.0	5854.5	4843.7	3896.0	3070.5	2510.3	2042.8	1655.3	1301.5	1027.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	29.5	21.1	8.4	0.0
85°	63.2	42.1	21.1	0.0
82.5°	92.7	59.0	29.5	0.0
80°	122.1	80.0	37.9	0.0
77.5°	155.8	101.1	50.5	0.0
75°	185.3	117.9	59.0	0.0
72.5°	214.8	139.0	67.4	0.0
70°	240.1	155.8	75.8	0.0
67.5°	265.4	176.9	88.5	0.0
65°	286.4	193.7	96.9	0.0
62.5°	303.3	214.8	105.3	0.0
60°	324.3	231.7	113.7	0.0
57.5°	341.2	244.3	122.1	0.0
55°	358.0	252.7	130.6	0.0
52.5°	374.9	265.4	139.0	0.0
50°	391.7	278.0	147.4	0.0
47.5°	408.6	286.4	151.6	0.0
45°	433.8	299.0	160.1	0.0
42.5°	454.9	307.5	168.5	0.0
40°	475.9	315.9	172.7	0.0
37.5°	497.0	324.3	181.1	0.0
35°	518.1	332.7	185.3	0.0
32.5°	534.9	341.2	189.5	0.0
30°	551.8	349.6	193.7	0.0
27.5°	568.6	353.8	198.0	0.0
25°	581.2	362.2	202.2	0.0
22.5°	593.9	366.4	206.4	0.0
20°	602.3	370.6	210.6	0.0
17.5°	614.9	374.9	214.8	0.0
15°	619.2	379.1	223.2	0.0
12.5°	627.6	383.3	223.2	0.0
10°	631.8	387.5	223.2	0.0
7.5°	640.2	387.5	223.2	0.0
5°	636.0	387.5	223.2	0.0
2.5°	636.0	387.5	223.2	0.0
0°	631.8	387.5	223.2	0.0

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