

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: P628226

Luminaire Tested: **IFLD-M-SA4D-730-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628226  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

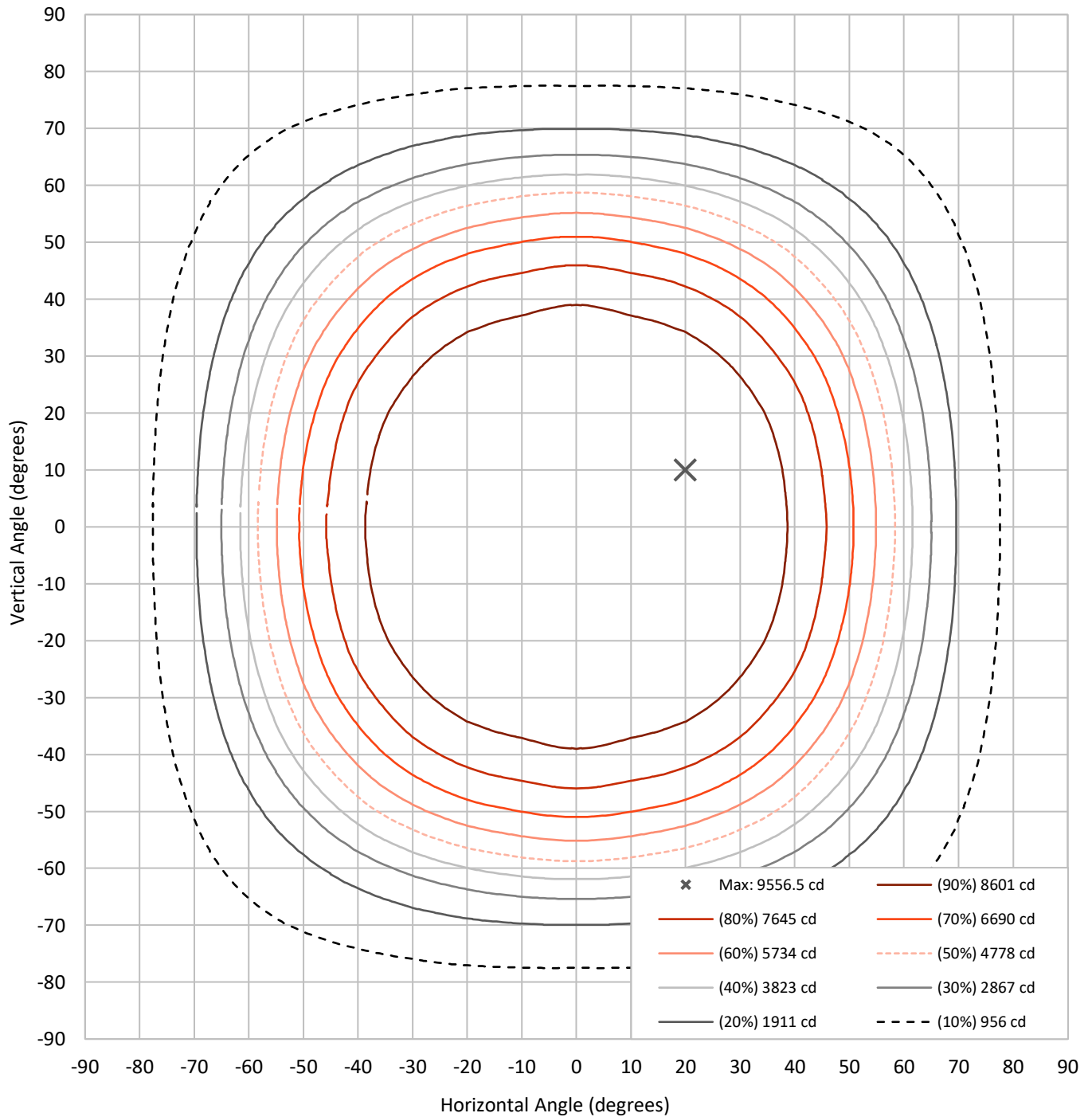
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29318.1 lumens	Max Intensity:	9556.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	117.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17990.2 lumens	Field Lumens:	21567.2 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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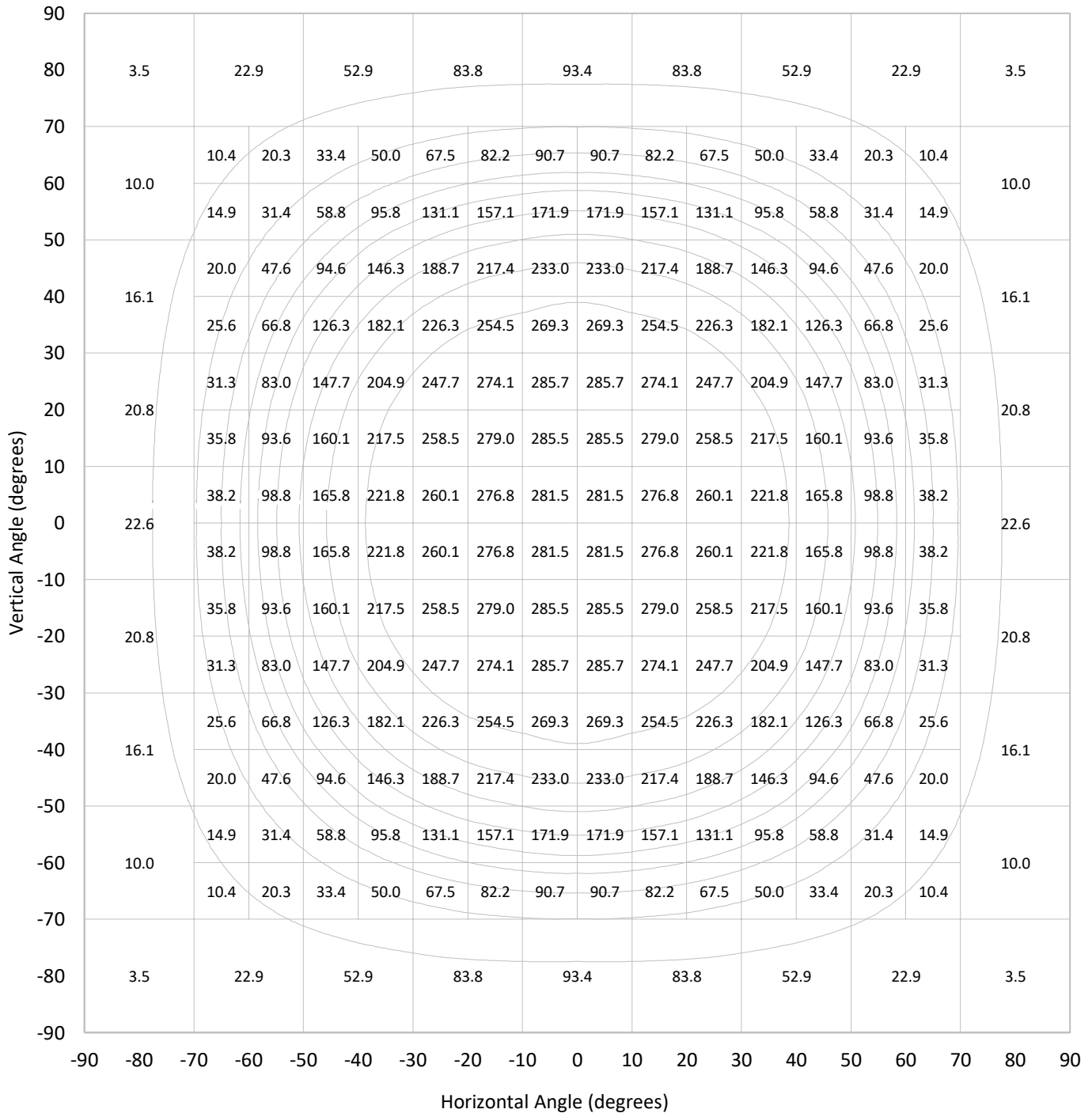
### Iso-Candela Plot





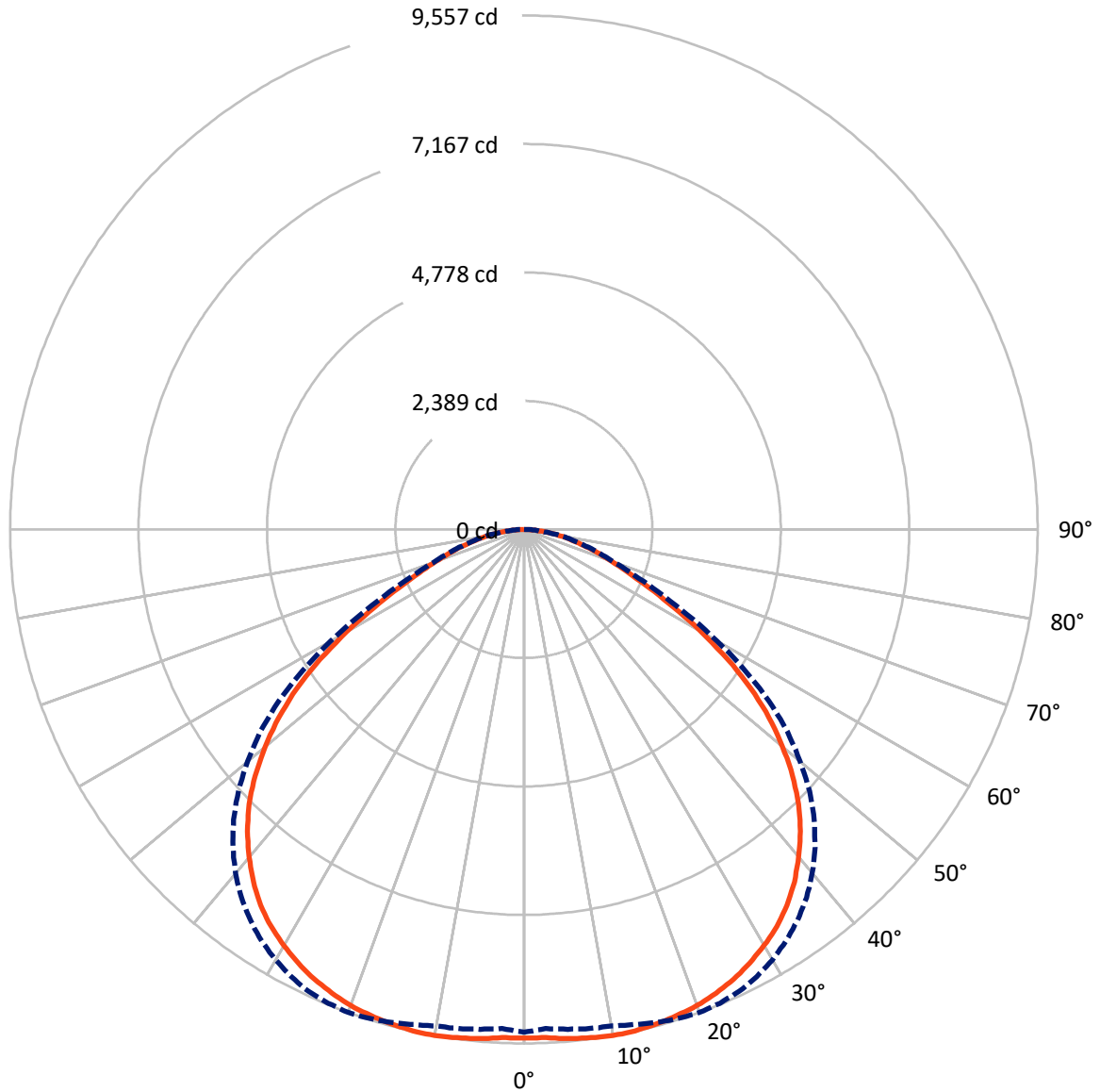
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### Lumen Table



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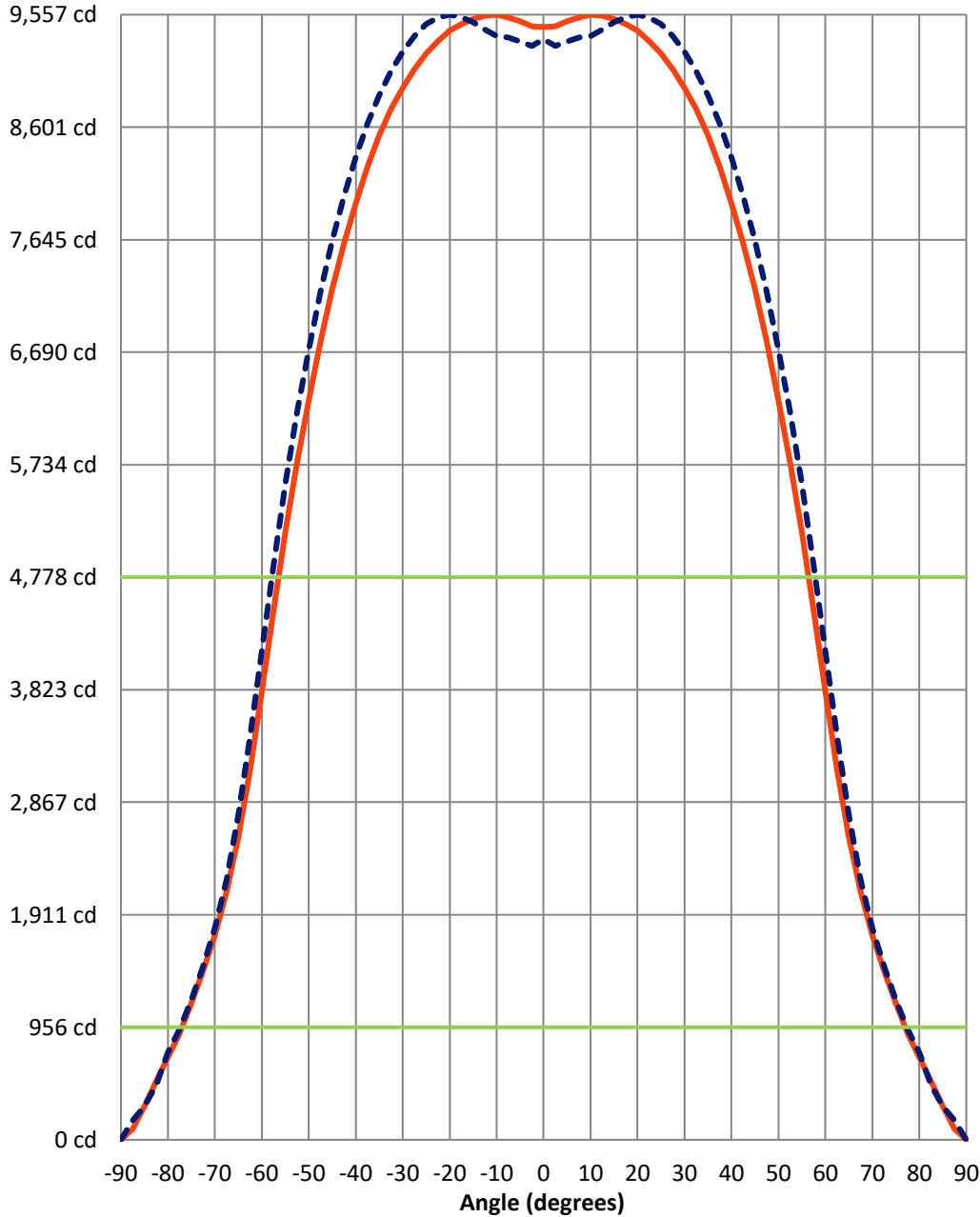
### Luminous Intensity Polar Plot



— 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: 17990.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 21567.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 7750.9  
 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°	77.1	83.3	86.4	89.5	92.5	95.6	98.7	95.6	92.5	92.5	89.5
85°	206.7	212.8	215.9	237.5	259.1	271.5	286.9	283.8	283.8	280.7	277.6
82.5°	413.4	431.9	447.3	468.9	481.2	499.7	512.1	502.8	496.6	484.3	475.1
80°	734.2	740.3	743.4	746.5	731.1	728.0	721.8	712.6	700.2	684.8	669.4
77.5°	934.7	940.8	947.0	940.8	937.8	934.7	925.4	916.2	903.8	891.5	873.0
75°	1237.0	1237.0	1237.0	1227.7	1221.6	1212.3	1196.9	1181.5	1159.9	1135.2	1107.4
72.5°	1557.8	1554.7	1551.6	1533.1	1517.7	1499.2	1477.6	1459.1	1434.4	1406.6	1369.6
70°	1894.0	1900.2	1903.3	1878.6	1860.1	1835.4	1807.7	1773.7	1736.7	1696.6	1644.2
67.5°	2356.7	2350.6	2344.4	2310.5	2285.8	2251.9	2211.8	2162.4	2106.9	2045.2	1971.2
65°	2930.5	2939.8	2921.3	2887.3	2841.0	2785.5	2723.8	2652.9	2569.6	2477.0	2372.2
62.5°	3624.6	3640.0	3618.4	3575.2	3516.6	3442.6	3356.2	3254.4	3140.3	3010.7	2881.2
60°	4414.3	4411.2	4371.1	4312.5	4235.4	4142.8	4047.2	3936.1	3806.6	3655.4	3498.1
57.5°	5139.2	5133.0	5083.7	5025.0	4947.9	4849.2	4747.4	4630.2	4494.5	4334.1	4152.1
55°	5790.1	5783.9	5734.5	5672.8	5592.6	5493.9	5401.4	5290.3	5157.7	4988.0	4793.7
52.5°	6366.9	6370.0	6326.8	6258.9	6172.6	6076.9	5987.5	5876.4	5750.0	5580.3	5392.1
50°	6897.5	6894.4	6848.1	6786.4	6706.2	6613.7	6524.2	6413.2	6280.5	6117.0	5935.0
47.5°	7391.0	7384.9	7332.4	7264.6	7181.3	7101.1	7017.8	6919.1	6780.3	6616.8	6434.8
45°	7804.4	7792.1	7739.6	7674.8	7594.6	7523.7	7449.7	7375.6	7227.6	7076.4	6903.7
42.5°	8159.1	8156.1	8103.6	8038.8	7958.6	7896.9	7829.1	7736.5	7613.1	7474.3	7304.7
40°	8498.5	8473.8	8421.3	8359.7	8285.6	8233.2	8165.3	8072.8	7952.5	7816.7	7653.2
37.5°	8751.4	8754.5	8699.0	8631.1	8566.3	8517.0	8455.3	8368.9	8264.0	8131.4	7967.9
35°	8992.0	8976.6	8930.3	8871.7	8813.1	8757.6	8692.8	8618.8	8532.4	8409.0	8254.8
32.5°	9149.3	9170.9	9115.4	9053.7	9019.8	8976.6	8908.7	8831.6	8754.5	8631.1	8492.3
30°	9322.1	9303.6	9260.4	9208.0	9183.3	9155.5	9096.9	9022.9	8933.4	8822.4	8692.8
27.5°	9442.4	9433.1	9380.7	9331.3	9319.0	9294.3	9248.1	9183.3	9093.8	8985.9	8865.6
25°	9494.8	9501.0	9451.7	9423.9	9423.9	9408.5	9371.4	9315.9	9226.5	9127.8	9010.5
22.5°	9519.5	9513.3	9479.4	9473.2	9488.7	9476.3	9460.9	9411.6	9331.3	9251.1	9152.4
20°	9534.9	9491.8	9460.9	9485.6	9504.1	9501.0	9488.7	9457.8	9420.8	9352.9	9266.6
17.5°	9501.0	9473.2	9436.2	9473.2	9513.3	9516.4	9504.1	9485.6	9476.3	9433.1	9356.0
15°	9417.7	9396.1	9402.3	9439.3	9485.6	9501.0	9510.3	9531.9	9519.5	9485.6	9417.7
12.5°	9362.2	9334.4	9362.2	9399.2	9423.9	9433.1	9507.2	9547.3	9547.3	9516.4	9473.2
10°	9346.8	9291.2	9328.3	9362.2	9374.5	9430.1	9491.8	9534.9	9556.5	9531.9	9476.3
7.5°	9315.9	9278.9	9294.3	9309.8	9380.7	9420.8	9454.7	9501.0	9531.9	9528.8	9479.4
5°	9300.5	9254.2	9260.4	9325.2	9374.5	9402.3	9414.6	9454.7	9501.0	9510.3	9473.2
2.5°	9260.4	9238.8	9285.1	9291.2	9328.3	9349.9	9362.2	9399.2	9457.8	9479.4	9464.0
0°	9238.8	9208.0	9177.1	9201.8	9263.5	9309.8	9328.3	9383.8	9451.7	9473.2	9439.3



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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°	86.4	83.3	80.2	77.1	80.2	80.2	80.2	77.1	80.2	77.1	77.1
85°	268.4	256.0	246.8	234.4	222.1	212.8	200.5	188.2	185.1	182.0	175.8
82.5°	462.7	447.3	431.9	413.4	394.8	373.3	351.7	327.0	320.8	314.6	305.4
80°	650.9	629.3	607.7	586.1	567.6	546.0	521.3	493.6	475.1	459.6	441.1
77.5°	848.3	817.5	786.6	749.6	728.0	706.4	681.7	654.0	626.2	601.5	573.8
75°	1073.5	1039.6	1008.7	971.7	931.6	891.5	851.4	814.4	774.3	737.3	700.2
72.5°	1323.4	1274.0	1224.6	1178.4	1129.0	1079.7	1027.2	977.9	928.5	879.2	826.7
70°	1585.6	1523.9	1462.2	1400.5	1335.7	1270.9	1209.2	1147.5	1085.8	1021.1	962.4
67.5°	1894.0	1823.1	1742.9	1656.5	1560.9	1477.6	1397.4	1323.4	1249.3	1175.3	1101.3
65°	2279.6	2180.9	2072.9	1955.7	1844.7	1733.6	1616.4	1505.4	1419.0	1332.6	1249.3
62.5°	2754.7	2615.9	2464.7	2313.6	2177.8	2032.8	1897.1	1752.1	1616.4	1493.0	1391.2
60°	3322.3	3134.1	2949.0	2754.7	2566.5	2369.1	2196.3	2017.4	1847.8	1696.6	1548.5
57.5°	3948.5	3729.5	3507.4	3269.8	3013.8	2782.4	2548.0	2313.6	2113.0	1912.5	1746.0
55°	4583.9	4352.6	4102.7	3834.3	3553.6	3257.5	2939.8	2677.6	2403.0	2168.6	1952.6
52.5°	5188.5	4947.9	4688.8	4442.0	4105.8	3766.5	3417.9	3072.4	2751.6	2452.4	2190.2
50°	5728.4	5493.9	5244.1	4957.2	4645.6	4284.7	3896.0	3507.4	3127.9	2776.3	2449.3
47.5°	6221.9	5993.7	5743.8	5456.9	5173.1	4772.1	4380.3	3951.6	3528.9	3124.8	2742.3
45°	6684.6	6453.3	6194.2	5919.6	5592.6	5234.8	4830.7	4398.8	3945.4	3491.9	3050.8
42.5°	7104.2	6872.8	6610.6	6326.8	6002.9	5648.2	5256.4	4821.5	4364.9	3871.4	3387.0
40°	7471.2	7246.1	6993.1	6697.0	6394.7	6021.4	5635.8	5222.5	4750.5	4253.9	3720.2
37.5°	7792.1	7582.3	7332.4	7039.4	6718.6	6385.4	5987.5	5574.1	5148.4	4608.6	4062.6
35°	8075.9	7881.5	7625.5	7347.9	7033.2	6681.6	6308.3	5904.2	5444.6	4938.7	4408.1
32.5°	8322.6	8125.2	7890.8	7613.1	7307.8	6977.7	6595.2	6188.0	5753.0	5237.9	4661.0
30°	8532.4	8341.1	8119.0	7856.8	7563.8	7236.8	6863.6	6453.3	6009.1	5497.0	4926.3
27.5°	8714.4	8532.4	8316.5	8072.8	7792.1	7477.4	7101.1	6687.7	6234.3	5740.7	5170.0
25°	8871.7	8695.9	8495.4	8264.0	7986.4	7677.9	7323.2	6891.3	6437.9	5941.2	5376.7
22.5°	9013.6	8844.0	8643.5	8418.3	8165.3	7856.8	7499.0	7070.2	6610.6	6120.1	5564.9
20°	9140.1	8982.8	8785.3	8554.0	8301.0	7989.5	7634.7	7227.6	6764.8	6283.6	5734.5
17.5°	9241.9	9103.1	8905.7	8662.0	8409.0	8106.7	7761.2	7388.0	6897.5	6422.4	5876.4
15°	9312.8	9177.1	8998.2	8751.4	8504.6	8205.4	7859.9	7474.3	7017.8	6533.5	5993.7
12.5°	9362.2	9217.2	9050.6	8822.4	8575.6	8279.5	7943.2	7563.8	7119.6	6632.2	6095.5
10°	9374.5	9241.9	9075.3	8871.7	8631.1	8344.2	8014.2	7637.8	7202.9	6709.3	6178.7
7.5°	9380.7	9254.2	9103.1	8908.7	8671.2	8393.6	8066.6	7696.4	7264.6	6774.1	6240.4
5°	9377.6	9257.3	9121.6	8933.4	8695.9	8421.3	8100.5	7736.5	7307.8	6817.3	6286.7
2.5°	9368.4	9260.4	9133.9	8951.9	8723.7	8452.2	8134.5	7782.8	7354.0	6854.3	6323.7
0°	9393.0	9300.5	9140.1	8945.8	8729.8	8452.2	8131.4	7789.0	7360.2	6851.2	6320.6





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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°	77.1	74.0	74.0	70.9	67.9	64.8	58.6	55.5	49.4	40.1	30.8
85°	166.6	157.3	148.1	141.9	135.7	129.6	120.3	111.1	98.7	80.2	61.7
82.5°	293.1	274.5	256.0	234.4	215.9	197.4	182.0	166.6	148.1	120.3	92.5
80°	419.5	391.8	364.0	333.2	305.4	274.5	246.8	222.1	197.4	160.4	123.4
77.5°	546.0	509.0	468.9	431.9	391.8	351.7	311.6	277.6	240.6	197.4	154.2
75°	663.2	620.0	583.0	530.6	481.2	428.8	376.3	330.1	283.8	231.4	185.1
72.5°	780.4	724.9	672.5	623.1	567.6	502.8	444.2	385.6	327.0	265.3	209.8
70°	897.7	829.8	765.0	706.4	644.7	579.9	509.0	441.1	370.2	296.1	231.4
67.5°	1018.0	940.8	866.8	792.8	721.8	647.8	573.8	496.6	413.4	327.0	256.0
65°	1150.6	1055.0	965.5	882.2	798.9	718.7	635.5	552.2	459.6	360.9	277.6
62.5°	1283.3	1178.4	1073.5	968.6	876.1	786.6	697.2	604.6	502.8	397.9	299.2
60°	1425.2	1304.8	1184.5	1067.3	953.2	854.5	755.8	657.1	549.1	431.9	320.8
57.5°	1582.5	1437.5	1301.8	1169.1	1039.6	922.3	814.4	709.5	589.2	465.8	345.5
55°	1761.4	1582.5	1422.1	1274.0	1132.1	990.2	873.0	765.0	635.5	499.7	373.3
52.5°	1949.6	1742.9	1548.5	1382.0	1230.8	1070.4	928.5	808.2	681.7	533.7	397.9
50°	2168.6	1906.4	1690.4	1486.8	1317.2	1150.6	987.1	857.6	728.0	573.8	422.6
47.5°	2393.8	2103.8	1832.3	1610.2	1409.7	1227.7	1055.0	900.7	771.2	610.8	447.3
45°	2656.0	2292.0	1992.7	1730.5	1499.2	1307.9	1122.8	947.0	808.2	647.8	472.0
42.5°	2908.9	2514.1	2159.3	1863.2	1601.0	1385.0	1184.5	996.4	845.2	684.8	493.6
40°	3208.1	2736.2	2319.7	1989.7	1702.8	1459.1	1246.2	1048.8	879.2	718.7	515.2
37.5°	3495.0	2961.4	2514.1	2128.5	1801.5	1533.1	1307.9	1098.2	910.0	752.7	542.9
35°	3778.8	3211.2	2699.2	2258.0	1903.3	1616.4	1369.6	1144.4	940.8	780.4	567.6
32.5°	4050.3	3445.7	2887.3	2403.0	2014.3	1693.5	1425.2	1187.6	971.7	805.1	592.3
30°	4303.2	3667.8	3072.4	2551.1	2116.1	1764.5	1477.6	1230.8	1008.7	826.7	616.9
27.5°	4534.6	3883.7	3257.5	2689.9	2211.8	1829.3	1533.1	1270.9	1039.6	848.3	638.5
25°	4744.3	4078.0	3427.1	2816.4	2298.1	1900.2	1585.6	1311.0	1067.3	866.8	657.1
22.5°	4941.8	4256.9	3581.4	2942.8	2403.0	1971.2	1634.9	1348.0	1095.1	885.3	675.6
20°	5114.5	4420.4	3729.5	3069.3	2495.6	2035.9	1678.1	1382.0	1119.8	897.7	694.1
17.5°	5253.3	4565.4	3862.1	3180.4	2575.8	2091.5	1715.1	1412.8	1141.4	913.1	706.4
15°	5376.7	4688.8	3973.1	3276.0	2646.7	2137.7	1749.0	1437.5	1159.9	922.3	721.8
12.5°	5481.6	4793.7	4068.8	3359.3	2708.4	2177.8	1776.8	1456.0	1175.3	931.6	731.1
10°	5568.0	4877.0	4149.0	3424.1	2757.8	2208.7	1798.4	1474.5	1187.6	940.8	740.3
7.5°	5632.7	4938.7	4207.6	3479.6	2797.9	2230.3	1816.9	1486.8	1200.0	947.0	755.8
5°	5682.1	4991.1	4253.9	3516.6	2828.7	2261.1	1838.5	1502.3	1212.3	953.2	755.8
2.5°	5719.1	5034.3	4290.9	3547.5	2853.4	2254.9	1838.5	1499.2	1212.3	953.2	752.7
0°	5712.9	5037.4	4287.8	3547.5	2853.4	2248.8	1838.5	1496.1	1212.3	953.2	752.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.6	15.4	6.2	0.0
85°	46.3	30.8	15.4	0.0
82.5°	67.9	43.2	21.6	0.0
80°	89.5	58.6	27.8	0.0
77.5°	114.1	74.0	37.0	0.0
75°	135.7	86.4	43.2	0.0
72.5°	157.3	101.8	49.4	0.0
70°	175.8	114.1	55.5	0.0
67.5°	194.3	129.6	64.8	0.0
65°	209.8	141.9	70.9	0.0
62.5°	222.1	157.3	77.1	0.0
60°	237.5	169.7	83.3	0.0
57.5°	249.9	178.9	89.5	0.0
55°	262.2	185.1	95.6	0.0
52.5°	274.5	194.3	101.8	0.0
50°	286.9	203.6	108.0	0.0
47.5°	299.2	209.8	111.1	0.0
45°	317.7	219.0	117.2	0.0
42.5°	333.2	225.2	123.4	0.0
40°	348.6	231.4	126.5	0.0
37.5°	364.0	237.5	132.6	0.0
35°	379.4	243.7	135.7	0.0
32.5°	391.8	249.9	138.8	0.0
30°	404.1	256.0	141.9	0.0
27.5°	416.4	259.1	145.0	0.0
25°	425.7	265.3	148.1	0.0
22.5°	434.9	268.4	151.2	0.0
20°	441.1	271.5	154.2	0.0
17.5°	450.4	274.5	157.3	0.0
15°	453.5	277.6	163.5	0.0
12.5°	459.6	280.7	163.5	0.0
10°	462.7	283.8	163.5	0.0
7.5°	468.9	283.8	163.5	0.0
5°	465.8	283.8	163.5	0.0
2.5°	465.8	283.8	163.5	0.0
0°	462.7	283.8	163.5	0.0

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