

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: P628303

Luminaire Tested: **IFLD-S-SA3D-750-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628303  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

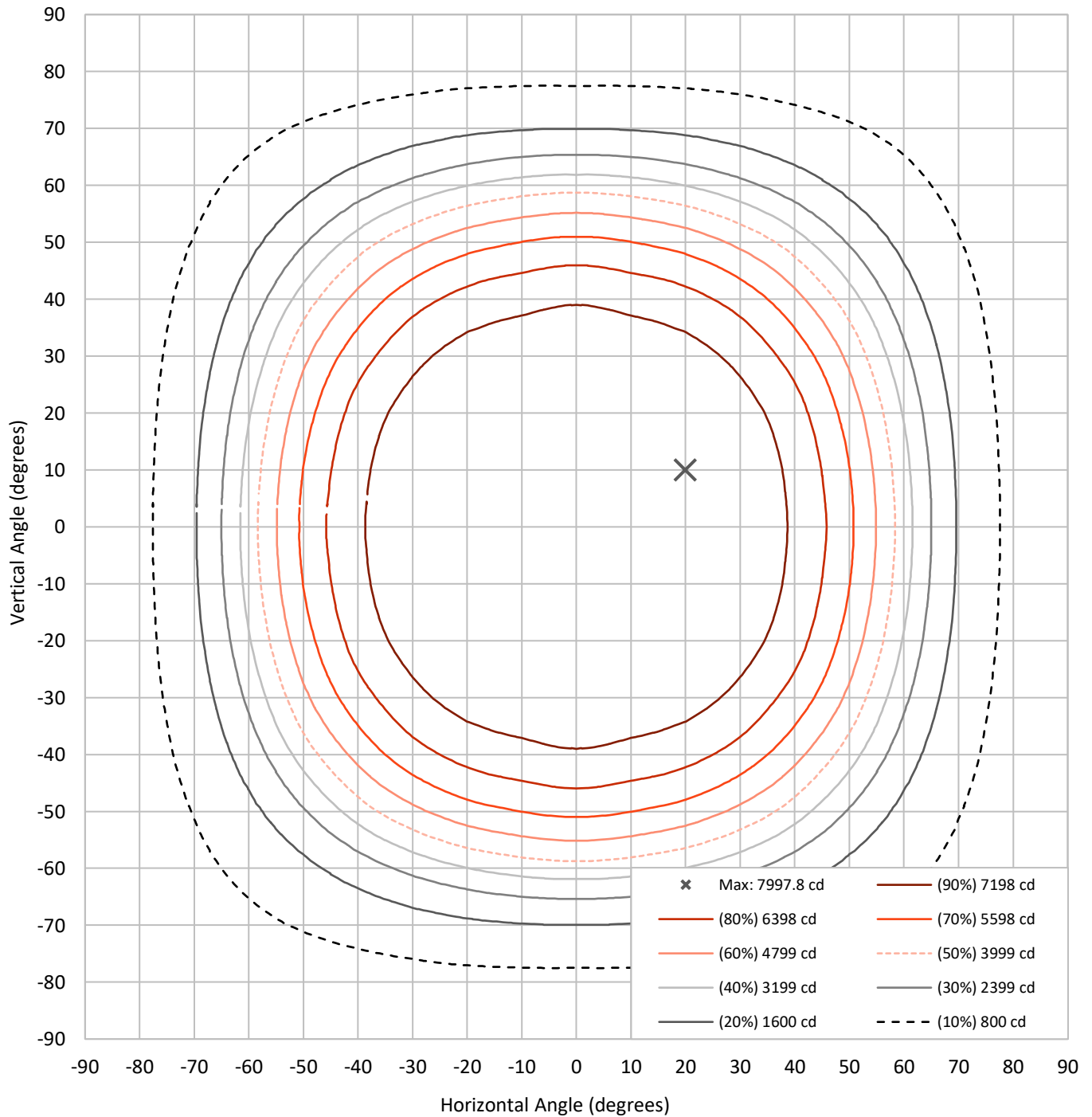
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24536.2 lumens	Max Intensity:	7997.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	133.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	15055.9 lumens	Field Lumens:	18049.5 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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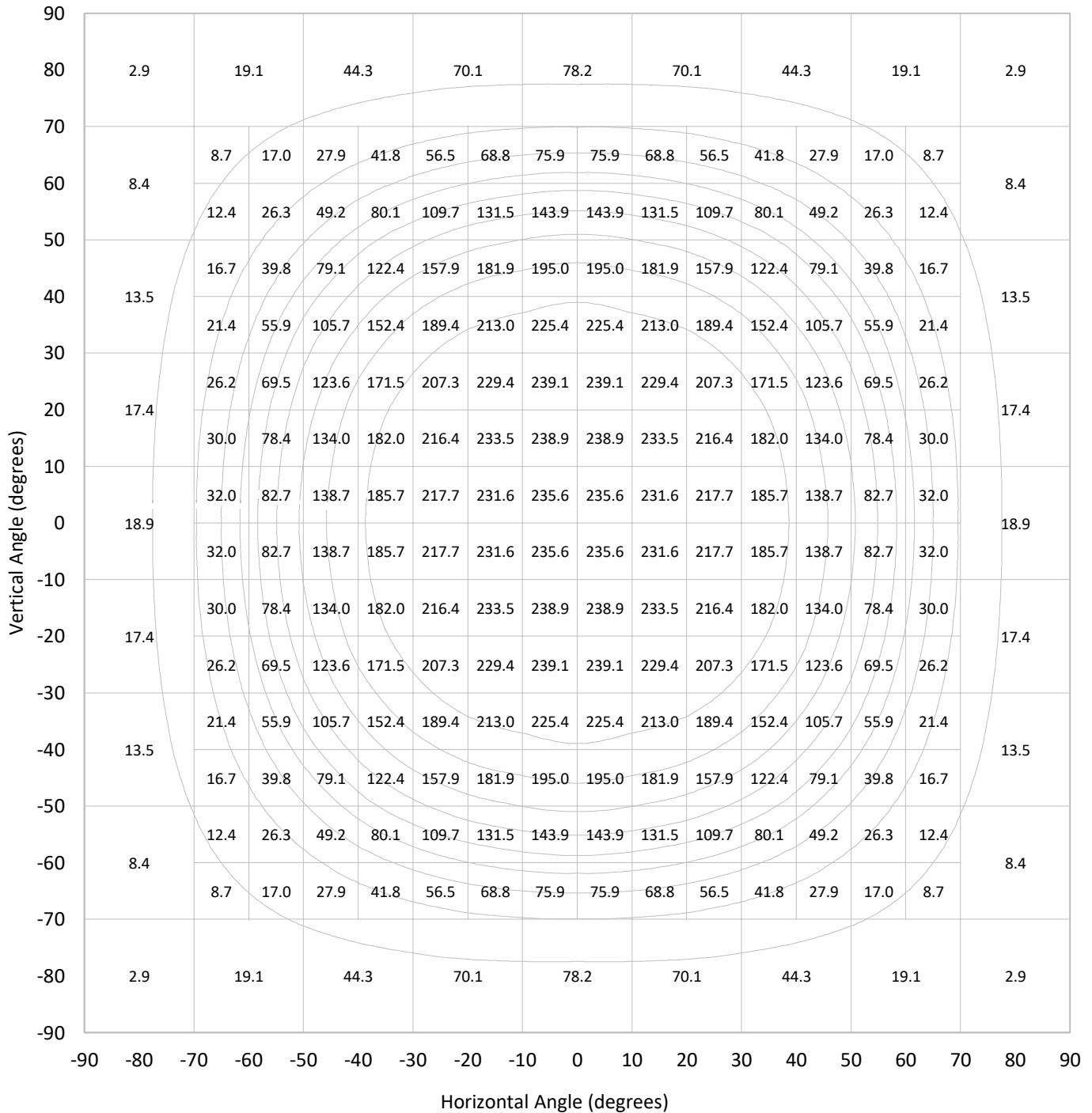
### Iso-Candela Plot





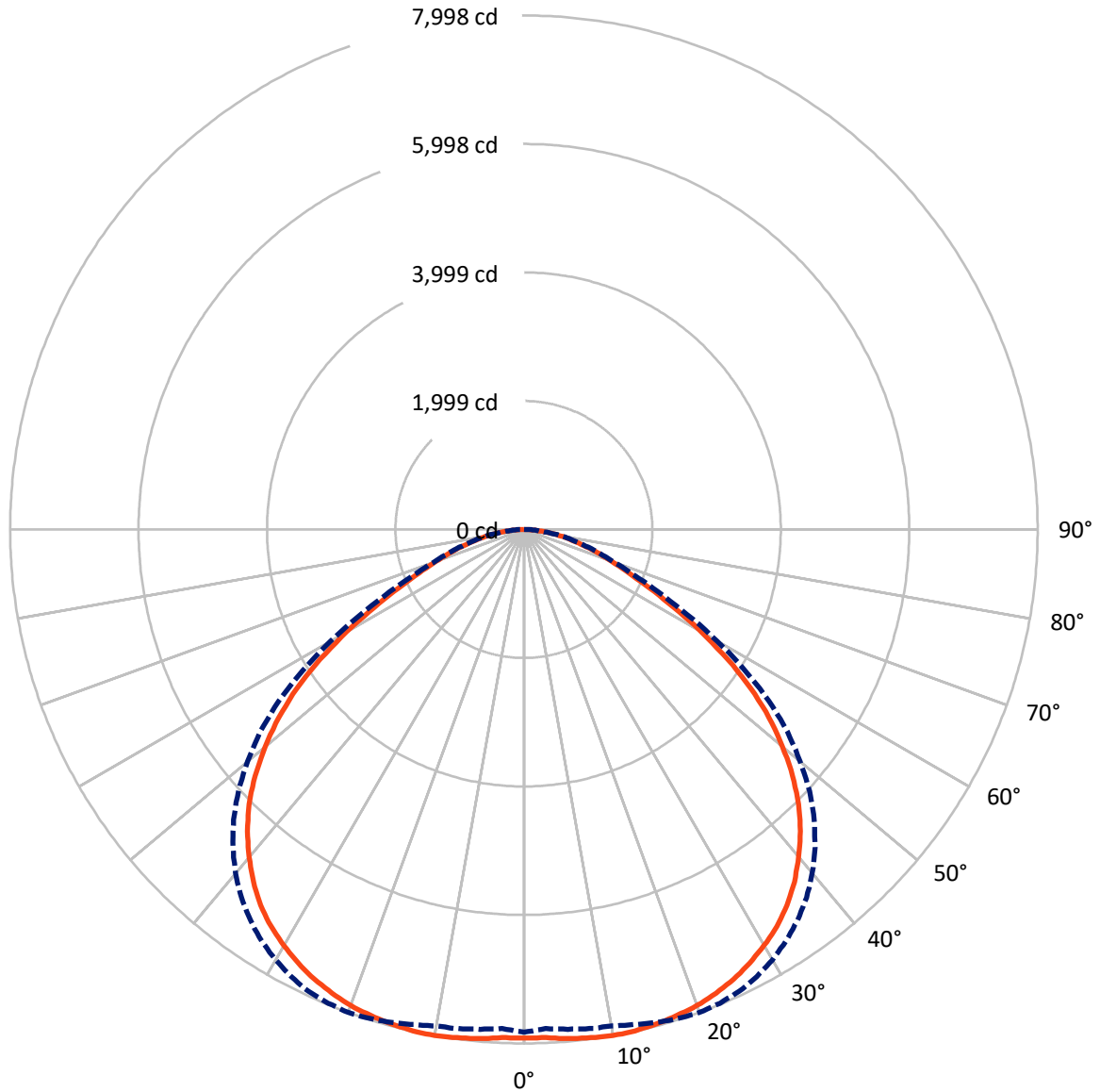
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### Lumen Table



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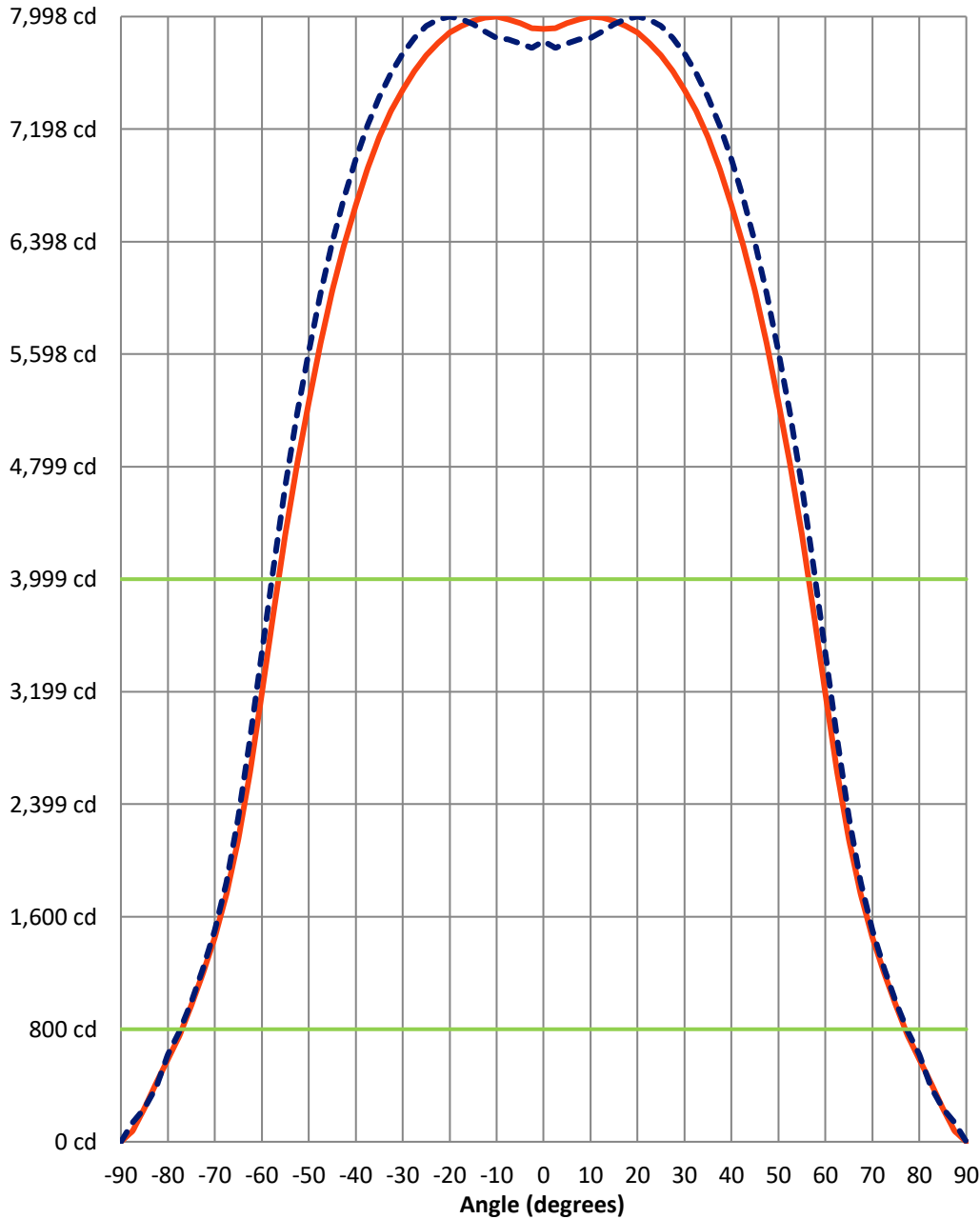
### Luminous Intensity Polar Plot



— 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: 15055.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 18049.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6486.7  
 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°	64.5	69.7	72.3	74.9	77.4	80.0	82.6	80.0	77.4	77.4	74.9
85°	173.0	178.1	180.7	198.8	216.9	227.2	240.1	237.5	237.5	234.9	232.3
82.5°	345.9	361.4	374.3	392.4	402.7	418.2	428.5	420.8	415.6	405.3	397.6
80°	614.4	619.6	622.2	624.7	611.8	609.3	604.1	596.4	586.0	573.1	560.2
77.5°	782.2	787.4	792.6	787.4	784.8	782.2	774.5	766.7	756.4	746.1	730.6
75°	1035.2	1035.2	1035.2	1027.5	1022.3	1014.6	1001.7	988.8	970.7	950.0	926.8
72.5°	1303.7	1301.1	1298.5	1283.1	1270.1	1254.7	1236.6	1221.1	1200.4	1177.2	1146.2
70°	1585.1	1590.3	1592.9	1572.2	1556.7	1536.1	1512.8	1484.4	1453.4	1419.9	1376.0
67.5°	1972.3	1967.2	1962.0	1933.6	1913.0	1884.6	1851.0	1809.7	1763.2	1711.6	1649.6
65°	2452.5	2460.3	2444.8	2416.4	2377.7	2331.2	2279.6	2220.2	2150.5	2073.0	1985.3
62.5°	3033.4	3046.3	3028.2	2992.1	2943.0	2881.1	2808.8	2723.6	2628.1	2519.6	2411.2
60°	3694.3	3691.7	3658.1	3609.1	3544.5	3467.1	3387.1	3294.1	3185.7	3059.2	2927.5
57.5°	4301.0	4295.8	4254.5	4205.4	4140.9	4058.3	3973.1	3875.0	3761.4	3627.2	3474.8
55°	4845.7	4840.5	4799.2	4747.6	4680.5	4597.8	4520.4	4427.5	4316.4	4174.5	4011.8
52.5°	5328.4	5331.0	5294.9	5238.1	5165.8	5085.8	5010.9	4918.0	4812.1	4670.1	4512.6
50°	5772.5	5769.9	5731.2	5679.5	5612.4	5535.0	5460.1	5367.2	5256.1	5119.3	4967.0
47.5°	6185.5	6180.4	6136.5	6079.7	6010.0	5942.9	5873.2	5790.5	5674.4	5537.5	5385.2
45°	6531.5	6521.1	6477.2	6423.0	6355.9	6296.5	6234.6	6172.6	6048.7	5922.2	5777.6
42.5°	6828.3	6825.8	6781.9	6727.7	6660.5	6608.9	6552.1	6474.7	6371.4	6255.2	6113.2
40°	7112.3	7091.7	7047.8	6996.2	6934.2	6890.3	6833.5	6756.1	6655.4	6541.8	6405.0
37.5°	7324.0	7326.6	7280.1	7223.3	7169.1	7127.8	7076.2	7003.9	6916.1	6805.1	6668.3
35°	7525.4	7512.5	7473.7	7424.7	7375.6	7329.2	7275.0	7213.0	7140.7	7037.5	6908.4
32.5°	7657.0	7675.1	7628.6	7577.0	7548.6	7512.5	7455.7	7391.1	7326.6	7223.3	7107.2
30°	7801.6	7786.1	7750.0	7706.1	7685.4	7662.2	7613.2	7551.2	7476.3	7383.4	7275.0
27.5°	7902.3	7894.5	7850.7	7809.4	7799.0	7778.4	7739.7	7685.4	7610.6	7520.2	7419.5
25°	7946.2	7951.3	7910.0	7886.8	7886.8	7873.9	7842.9	7796.4	7721.6	7639.0	7540.9
22.5°	7966.8	7961.7	7933.3	7928.1	7941.0	7930.7	7917.8	7876.5	7809.4	7742.2	7659.6
20°	7979.7	7943.6	7917.8	7938.4	7953.9	7951.3	7941.0	7915.2	7884.2	7827.4	7755.1
17.5°	7951.3	7928.1	7897.1	7928.1	7961.7	7964.3	7953.9	7938.4	7930.7	7894.5	7830.0
15°	7881.6	7863.6	7868.7	7899.7	7938.4	7951.3	7959.1	7977.2	7966.8	7938.4	7881.6
12.5°	7835.2	7811.9	7835.2	7866.2	7886.8	7894.5	7956.5	7990.1	7990.1	7964.3	7928.1
10°	7822.3	7775.8	7806.8	7835.2	7845.5	7892.0	7943.6	7979.7	7997.8	7977.2	7930.7
7.5°	7796.4	7765.5	7778.4	7791.3	7850.7	7884.2	7912.6	7951.3	7977.2	7974.6	7933.3
5°	7783.5	7744.8	7750.0	7804.2	7845.5	7868.7	7879.1	7912.6	7951.3	7959.1	7928.1
2.5°	7750.0	7731.9	7770.6	7775.8	7806.8	7824.8	7835.2	7866.2	7915.2	7933.3	7920.4
0°	7731.9	7706.1	7680.3	7700.9	7752.6	7791.3	7806.8	7853.2	7910.0	7928.1	7899.7



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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°	72.3	69.7	67.1	64.5	67.1	67.1	67.1	64.5	67.1	64.5	64.5
85°	224.6	214.3	206.5	196.2	185.9	178.1	167.8	157.5	154.9	152.3	147.2
82.5°	387.2	374.3	361.4	345.9	330.4	312.4	294.3	273.7	268.5	263.3	255.6
80°	544.7	526.6	508.6	490.5	475.0	456.9	436.3	413.1	397.6	384.7	369.2
77.5°	709.9	684.1	658.3	627.3	609.3	591.2	570.5	547.3	524.1	503.4	480.2
75°	898.4	870.0	844.2	813.2	779.6	746.1	712.5	681.5	648.0	617.0	586.0
72.5°	1107.5	1066.2	1024.9	986.2	944.9	903.6	859.7	818.4	777.1	735.8	691.9
70°	1326.9	1275.3	1223.7	1172.0	1117.8	1063.6	1012.0	960.4	908.7	854.5	805.5
67.5°	1585.1	1525.7	1458.6	1386.3	1306.3	1236.6	1169.5	1107.5	1045.6	983.6	921.6
65°	1907.8	1825.2	1734.8	1636.7	1543.8	1450.9	1352.8	1259.8	1187.5	1115.3	1045.6
62.5°	2305.4	2189.2	2062.7	1936.2	1822.6	1701.3	1587.7	1466.4	1352.8	1249.5	1164.3
60°	2780.4	2622.9	2468.0	2305.4	2147.9	1982.7	1838.1	1688.4	1546.4	1419.9	1296.0
57.5°	3304.5	3121.2	2935.3	2736.5	2522.2	2328.6	2132.4	1936.2	1768.4	1600.6	1461.2
55°	3836.3	3642.6	3433.5	3208.9	2974.0	2726.2	2460.3	2240.8	2011.1	1814.9	1634.2
52.5°	4342.3	4140.9	3924.0	3717.5	3436.1	3152.1	2860.4	2571.3	2302.8	2052.4	1832.9
50°	4794.0	4597.8	4388.7	4148.6	3887.9	3585.8	3260.6	2935.3	2617.7	2323.4	2049.8
47.5°	5207.1	5016.1	4806.9	4566.9	4329.4	3993.7	3665.9	3307.0	2953.4	2615.2	2295.0
45°	5594.3	5400.7	5183.9	4954.1	4680.5	4381.0	4042.8	3681.4	3301.9	2922.4	2553.2
42.5°	5945.4	5751.8	5532.4	5294.9	5023.8	4726.9	4399.1	4035.0	3653.0	3239.9	2834.6
40°	6252.6	6064.2	5852.5	5604.7	5351.7	5039.3	4716.6	4370.7	3975.7	3560.0	3113.4
37.5°	6521.1	6345.6	6136.5	5891.2	5622.7	5343.9	5010.9	4665.0	4308.7	3856.9	3400.0
35°	6758.6	6596.0	6381.7	6149.4	5886.1	5591.8	5279.4	4941.2	4556.5	4133.1	3689.1
32.5°	6965.2	6799.9	6603.7	6371.4	6115.8	5839.6	5519.5	5178.7	4814.7	4383.6	3900.8
30°	7140.7	6980.7	6794.8	6575.3	6330.1	6056.4	5744.1	5400.7	5029.0	4600.4	4122.8
27.5°	7293.0	7140.7	6960.0	6756.1	6521.1	6257.8	5942.9	5596.9	5217.4	4804.4	4326.8
25°	7424.7	7277.5	7109.7	6916.1	6683.8	6425.6	6128.7	5767.3	5387.8	4972.2	4499.7
22.5°	7543.5	7401.5	7233.7	7045.2	6833.5	6575.3	6275.9	5917.0	5532.4	5121.9	4657.2
20°	7649.3	7517.6	7352.4	7158.8	6947.1	6686.4	6389.5	6048.7	5661.5	5258.7	4799.2
17.5°	7734.5	7618.3	7453.1	7249.1	7037.5	6784.5	6495.3	6182.9	5772.5	5374.9	4918.0
15°	7793.9	7680.3	7530.5	7324.0	7117.5	6867.1	6577.9	6255.2	5873.2	5467.8	5016.1
12.5°	7835.2	7713.8	7574.4	7383.4	7176.9	6929.0	6647.6	6330.1	5958.3	5550.5	5101.3
10°	7845.5	7734.5	7595.1	7424.7	7223.3	6983.2	6707.0	6392.1	6028.0	5615.0	5171.0
7.5°	7850.7	7744.8	7618.3	7455.7	7256.9	7024.5	6750.9	6441.1	6079.7	5669.2	5222.6
5°	7848.1	7747.4	7633.8	7476.3	7277.5	7047.8	6779.3	6474.7	6115.8	5705.3	5261.3
2.5°	7840.3	7750.0	7644.1	7491.8	7300.8	7073.6	6807.7	6513.4	6154.5	5736.3	5292.3
0°	7861.0	7783.5	7649.3	7486.7	7305.9	7073.6	6805.1	6518.6	6159.7	5733.7	5289.7





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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°	64.5	62.0	62.0	59.4	56.8	54.2	49.1	46.5	41.3	33.6	25.8
85°	139.4	131.7	123.9	118.8	113.6	108.4	100.7	92.9	82.6	67.1	51.6
82.5°	245.3	229.8	214.3	196.2	180.7	165.2	152.3	139.4	123.9	100.7	77.4
80°	351.1	327.9	304.6	278.8	255.6	229.8	206.5	185.9	165.2	134.2	103.3
77.5°	456.9	426.0	392.4	361.4	327.9	294.3	260.7	232.3	201.4	165.2	129.1
75°	555.0	518.9	487.9	444.0	402.7	358.8	315.0	276.2	237.5	193.6	154.9
72.5°	653.1	606.7	562.8	521.5	475.0	420.8	371.8	322.7	273.7	222.0	175.5
70°	751.2	694.5	640.2	591.2	539.6	485.3	426.0	369.2	309.8	247.8	193.6
67.5°	851.9	787.4	725.4	663.5	604.1	542.1	480.2	415.6	345.9	273.7	214.3
65°	962.9	882.9	808.0	738.3	668.6	601.5	531.8	462.1	384.7	302.0	232.3
62.5°	1073.9	986.2	898.4	810.6	733.2	658.3	583.4	506.0	420.8	333.0	250.4
60°	1192.7	1092.0	991.3	893.2	797.7	715.1	632.5	549.9	459.5	361.4	268.5
57.5°	1324.4	1203.0	1089.4	978.4	870.0	771.9	681.5	593.8	493.1	389.8	289.1
55°	1474.1	1324.4	1190.1	1066.2	947.4	828.7	730.6	640.2	531.8	418.2	312.4
52.5°	1631.6	1458.6	1296.0	1156.6	1030.1	895.8	777.1	676.4	570.5	446.6	333.0
50°	1814.9	1595.4	1414.7	1244.3	1102.3	962.9	826.1	717.7	609.3	480.2	353.7
47.5°	2003.3	1760.7	1533.5	1347.6	1179.8	1027.5	882.9	753.8	645.4	511.2	374.3
45°	2222.8	1918.1	1667.7	1448.3	1254.7	1094.6	939.7	792.6	676.4	542.1	395.0
42.5°	2434.5	2104.0	1807.1	1559.3	1339.9	1159.1	991.3	833.9	707.4	573.1	413.1
40°	2684.9	2289.9	1941.4	1665.1	1425.0	1221.1	1043.0	877.7	735.8	601.5	431.1
37.5°	2925.0	2478.3	2104.0	1781.3	1507.7	1283.1	1094.6	919.1	761.6	629.9	454.4
35°	3162.5	2687.5	2258.9	1889.7	1592.9	1352.8	1146.2	957.8	787.4	653.1	475.0
32.5°	3389.6	2883.7	2416.4	2011.1	1685.8	1417.3	1192.7	993.9	813.2	673.8	495.7
30°	3601.3	3069.5	2571.3	2135.0	1771.0	1476.7	1236.6	1030.1	844.2	691.9	516.3
27.5°	3795.0	3250.2	2726.2	2251.2	1851.0	1530.9	1283.1	1063.6	870.0	709.9	534.4
25°	3970.5	3412.9	2868.2	2357.0	1923.3	1590.3	1326.9	1097.2	893.2	725.4	549.9
22.5°	4135.7	3562.6	2997.2	2462.9	2011.1	1649.6	1368.3	1128.2	916.5	740.9	565.4
20°	4280.3	3699.4	3121.2	2568.7	2088.5	1703.9	1404.4	1156.6	937.1	751.2	580.9
17.5°	4396.5	3820.8	3232.2	2661.6	2155.6	1750.3	1435.4	1182.4	955.2	764.2	591.2
15°	4499.7	3924.0	3325.1	2741.7	2215.0	1789.1	1463.8	1203.0	970.7	771.9	604.1
12.5°	4587.5	4011.8	3405.1	2811.4	2266.6	1822.6	1487.0	1218.5	983.6	779.6	611.8
10°	4659.8	4081.5	3472.3	2865.6	2308.0	1848.4	1505.1	1234.0	993.9	787.4	619.6
7.5°	4714.0	4133.1	3521.3	2912.1	2341.5	1866.5	1520.6	1244.3	1004.2	792.6	632.5
5°	4755.3	4177.0	3560.0	2943.0	2367.3	1892.3	1538.6	1257.2	1014.6	797.7	632.5
2.5°	4786.3	4213.2	3591.0	2968.8	2388.0	1887.2	1538.6	1254.7	1014.6	797.7	629.9
0°	4781.1	4215.8	3588.4	2968.8	2388.0	1882.0	1538.6	1252.1	1014.6	797.7	629.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.1	12.9	5.2	0.0
85°	38.7	25.8	12.9	0.0
82.5°	56.8	36.1	18.1	0.0
80°	74.9	49.1	23.2	0.0
77.5°	95.5	62.0	31.0	0.0
75°	113.6	72.3	36.1	0.0
72.5°	131.7	85.2	41.3	0.0
70°	147.2	95.5	46.5	0.0
67.5°	162.6	108.4	54.2	0.0
65°	175.5	118.8	59.4	0.0
62.5°	185.9	131.7	64.5	0.0
60°	198.8	142.0	69.7	0.0
57.5°	209.1	149.7	74.9	0.0
55°	219.4	154.9	80.0	0.0
52.5°	229.8	162.6	85.2	0.0
50°	240.1	170.4	90.4	0.0
47.5°	250.4	175.5	92.9	0.0
45°	265.9	183.3	98.1	0.0
42.5°	278.8	188.5	103.3	0.0
40°	291.7	193.6	105.8	0.0
37.5°	304.6	198.8	111.0	0.0
35°	317.5	203.9	113.6	0.0
32.5°	327.9	209.1	116.2	0.0
30°	338.2	214.3	118.8	0.0
27.5°	348.5	216.9	121.3	0.0
25°	356.3	222.0	123.9	0.0
22.5°	364.0	224.6	126.5	0.0
20°	369.2	227.2	129.1	0.0
17.5°	376.9	229.8	131.7	0.0
15°	379.5	232.3	136.8	0.0
12.5°	384.7	234.9	136.8	0.0
10°	387.2	237.5	136.8	0.0
7.5°	392.4	237.5	136.8	0.0
5°	389.8	237.5	136.8	0.0
2.5°	389.8	237.5	136.8	0.0
0°	387.2	237.5	136.8	0.0

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