

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: P628373

Luminaire Tested: **IFLD-L-SA7A-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628373
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

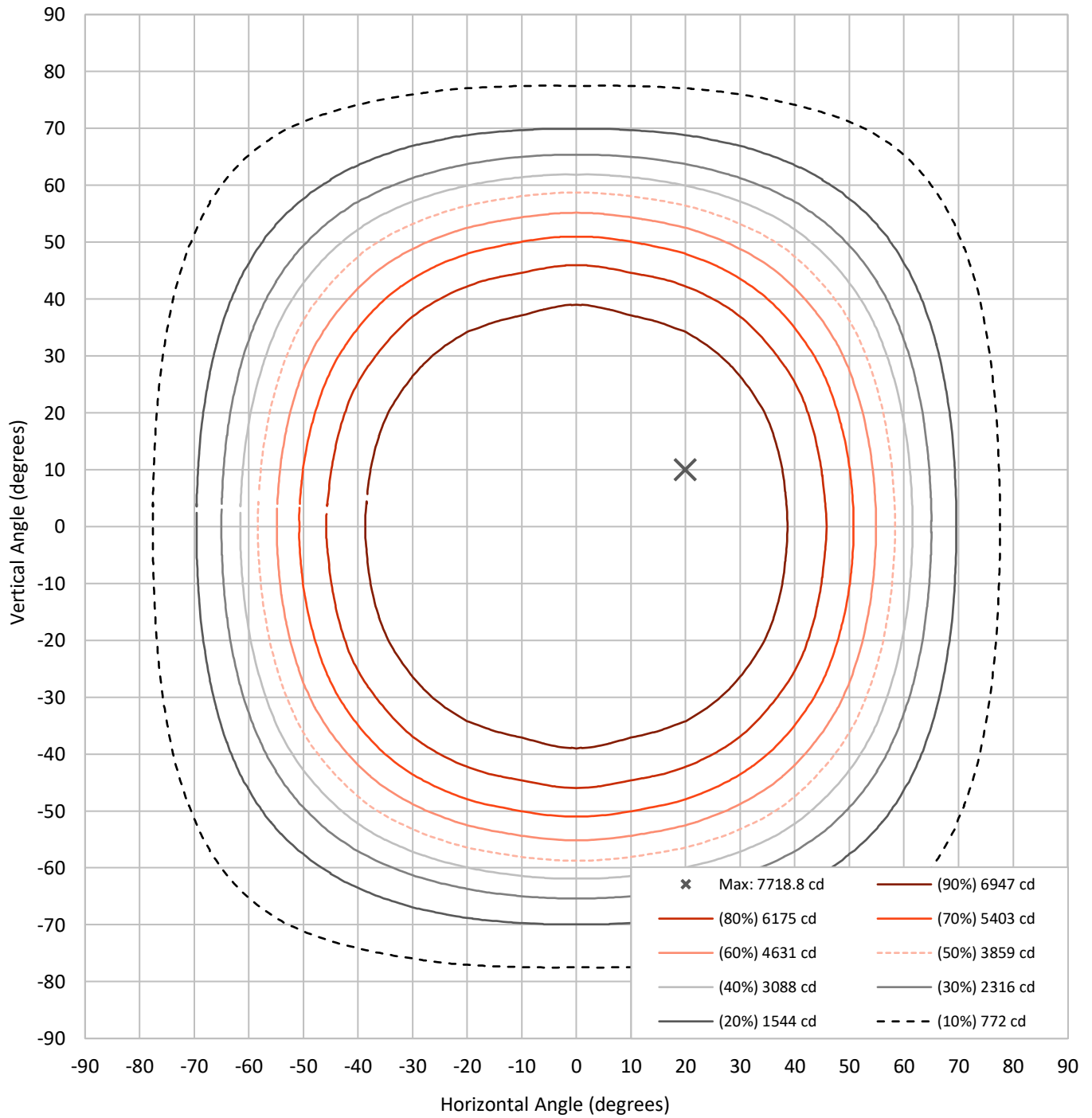
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23680.2 lumens	Max Intensity:	7718.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	108.8 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:	14530.7 lumens	Field Lumens:	17419.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	217.6		
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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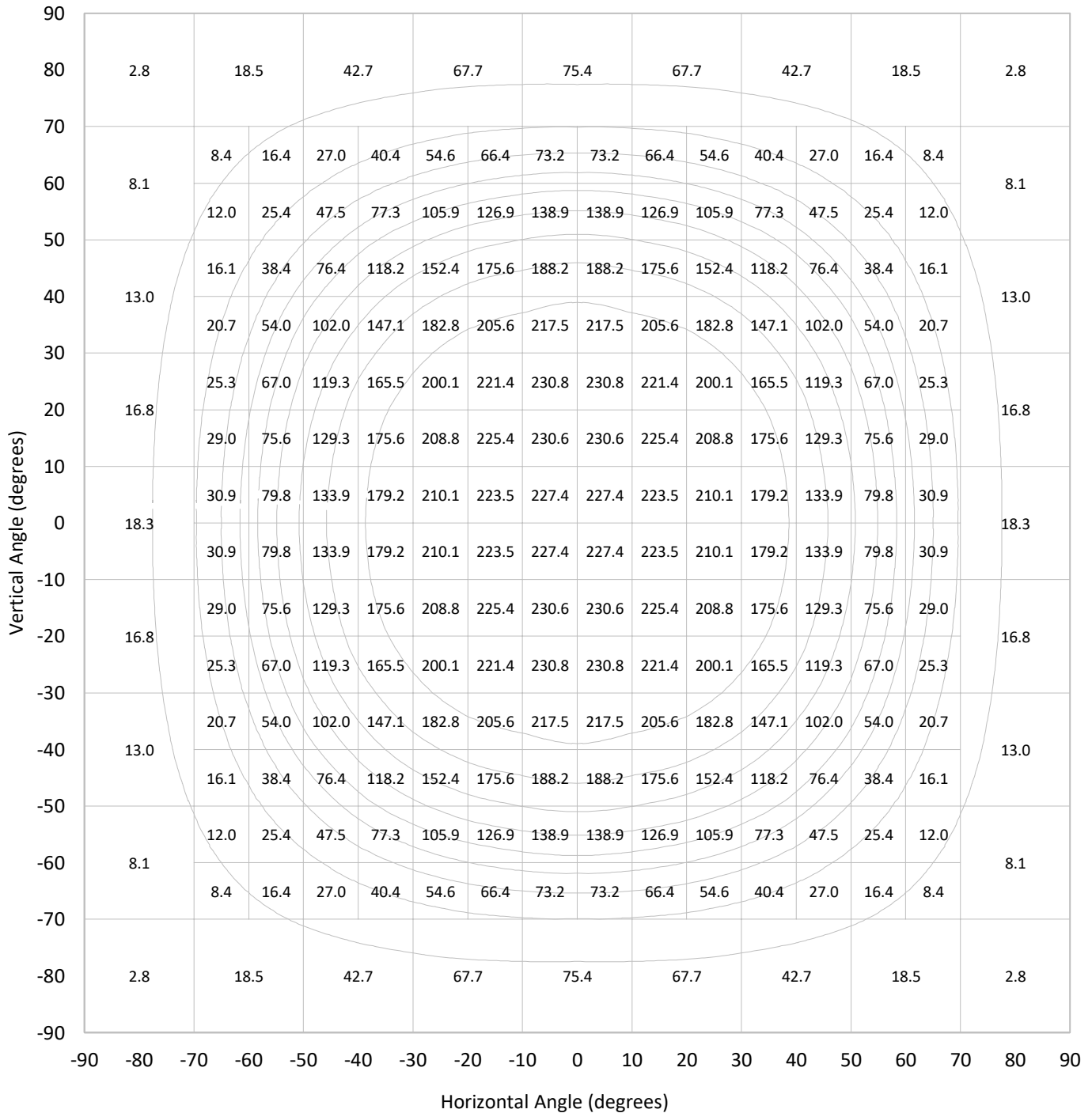
Iso-Candela Plot





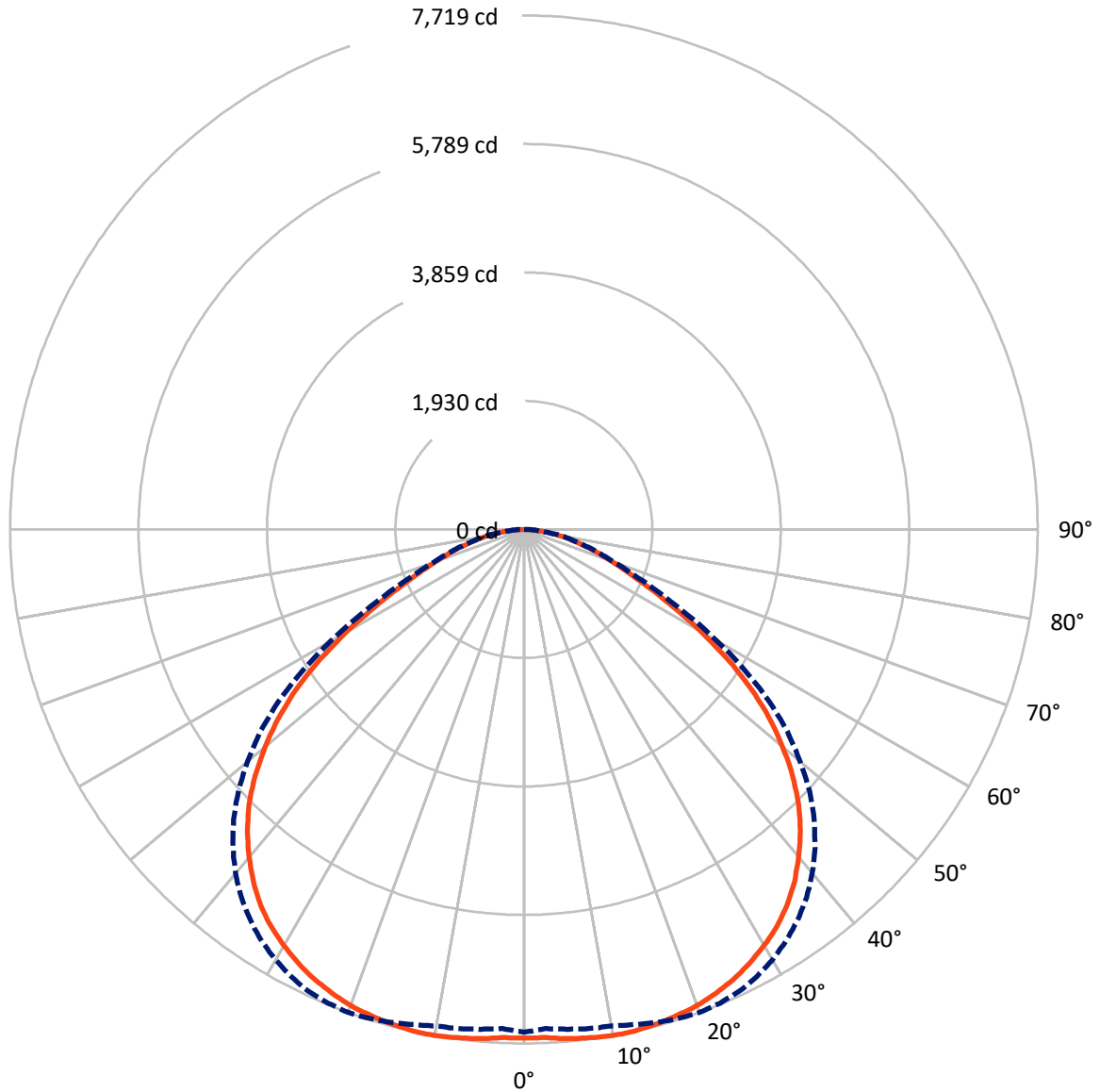
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Lumen Table



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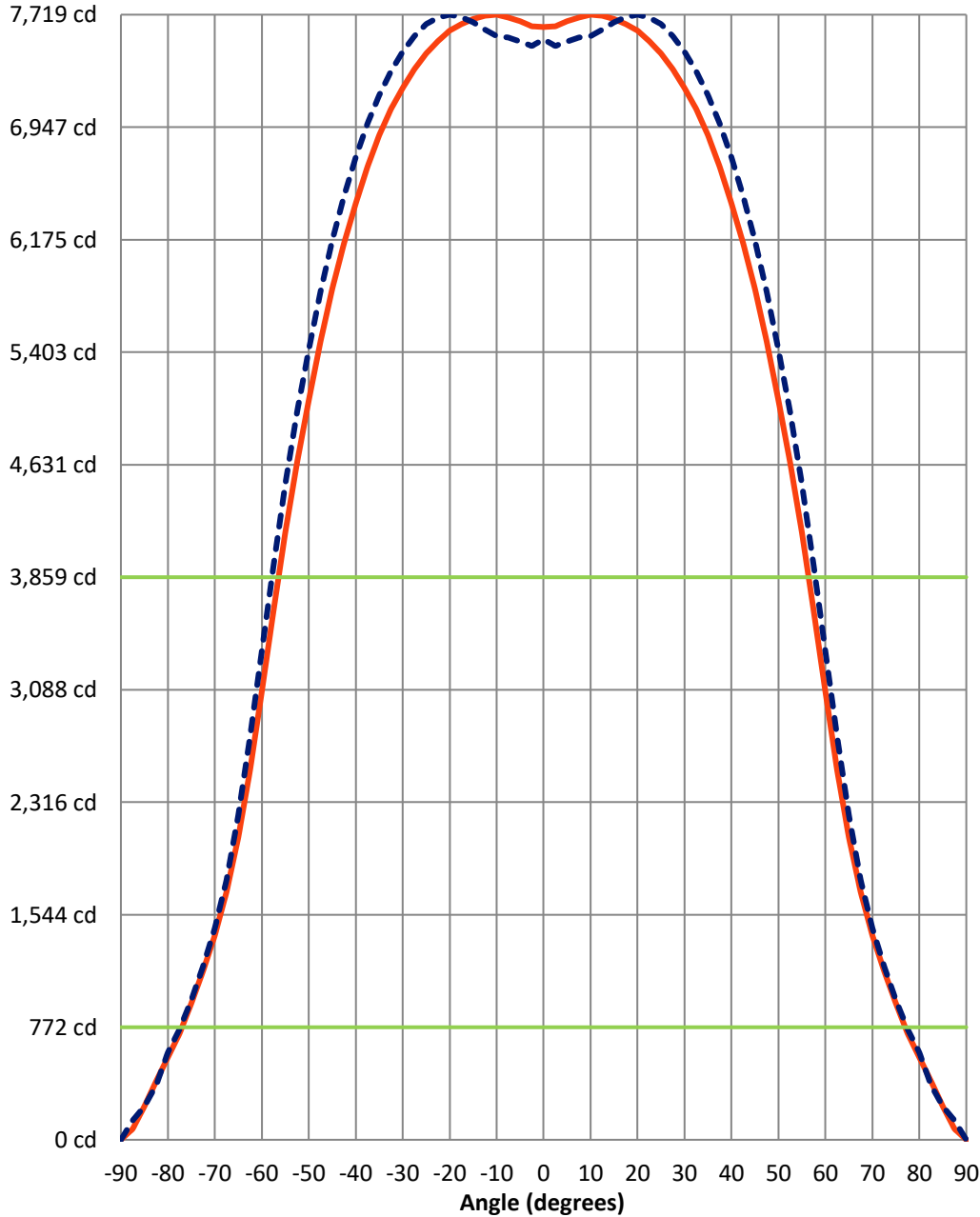
Luminous Intensity Polar Plot



— 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: 14530.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17419.8
 Efficiency: 73.6%

Spill:
 Lumens: 6260.4
 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°	62.3	67.3	69.8	72.3	74.7	77.2	79.7	77.2	74.7	74.7	72.3
85°	166.9	171.9	174.4	191.8	209.3	219.3	231.7	229.2	229.2	226.7	224.2
82.5°	333.9	348.8	361.3	378.7	388.7	403.6	413.6	406.1	401.1	391.2	383.7
80°	593.0	598.0	600.5	603.0	590.5	588.0	583.0	575.5	565.6	553.1	540.7
77.5°	754.9	759.9	764.9	759.9	757.4	754.9	747.5	740.0	730.0	720.1	705.1
75°	999.1	999.1	999.1	991.6	986.7	979.2	966.7	954.3	936.8	916.9	894.5
72.5°	1258.2	1255.7	1253.2	1238.3	1225.8	1210.9	1193.4	1178.5	1158.6	1136.1	1106.2
70°	1529.8	1534.8	1537.3	1517.3	1502.4	1482.5	1460.0	1432.6	1402.7	1370.3	1328.0
67.5°	1903.5	1898.6	1893.6	1866.2	1846.2	1818.8	1786.4	1746.6	1701.7	1651.9	1592.1
65°	2367.0	2374.4	2359.5	2332.1	2294.7	2249.9	2200.0	2142.7	2075.5	2000.7	1916.0
62.5°	2927.6	2940.0	2922.6	2887.7	2840.4	2780.6	2710.8	2628.6	2536.4	2431.7	2327.1
60°	3565.4	3562.9	3530.5	3483.2	3420.9	3346.1	3268.9	3179.2	3074.6	2952.5	2825.4
57.5°	4150.9	4145.9	4106.1	4058.7	3996.4	3916.7	3834.5	3739.8	3630.2	3500.6	3353.6
55°	4676.6	4671.6	4631.8	4581.9	4517.2	4437.4	4362.7	4273.0	4165.9	4028.8	3871.9
52.5°	5142.5	5145.0	5110.2	5055.3	4985.6	4908.3	4836.1	4746.4	4644.2	4507.2	4355.2
50°	5571.1	5568.6	5531.2	5481.4	5416.6	5341.9	5269.6	5179.9	5072.8	4940.7	4793.7
47.5°	5969.7	5964.7	5922.4	5867.6	5800.3	5735.5	5668.3	5588.5	5476.4	5344.4	5197.4
45°	6303.6	6293.6	6251.3	6199.0	6134.2	6076.9	6017.1	5957.3	5837.7	5715.6	5576.1
42.5°	6590.1	6587.6	6545.3	6493.0	6428.2	6378.3	6323.5	6248.8	6149.1	6037.0	5900.0
40°	6864.2	6844.3	6801.9	6752.1	6692.3	6649.9	6595.1	6520.4	6423.2	6313.6	6181.5
37.5°	7068.5	7071.0	7026.1	6971.3	6919.0	6879.1	6829.3	6759.6	6674.8	6567.7	6435.7
35°	7262.8	7250.4	7213.0	7165.7	7118.3	7073.5	7021.2	6961.4	6891.6	6791.9	6667.4
32.5°	7389.9	7407.4	7362.5	7312.7	7285.3	7250.4	7195.6	7133.3	7071.0	6971.3	6859.2
30°	7529.4	7514.5	7479.6	7437.3	7417.3	7394.9	7347.6	7287.8	7215.5	7125.8	7021.2
27.5°	7626.6	7619.1	7576.8	7536.9	7526.9	7507.0	7469.6	7417.3	7345.1	7257.9	7160.7
25°	7669.0	7673.9	7634.1	7611.7	7611.7	7599.2	7569.3	7524.5	7452.2	7372.5	7277.8
22.5°	7688.9	7683.9	7656.5	7651.5	7664.0	7654.0	7641.6	7601.7	7536.9	7472.1	7392.4
20°	7701.4	7666.5	7641.6	7661.5	7676.4	7673.9	7664.0	7639.1	7609.2	7554.4	7484.6
17.5°	7673.9	7651.5	7621.6	7651.5	7683.9	7686.4	7676.4	7661.5	7654.0	7619.1	7556.8
15°	7606.7	7589.2	7594.2	7624.1	7661.5	7673.9	7681.4	7698.9	7688.9	7661.5	7606.7
12.5°	7561.8	7539.4	7561.8	7591.7	7611.7	7619.1	7678.9	7711.3	7711.3	7686.4	7651.5
10°	7549.4	7504.5	7534.4	7561.8	7571.8	7616.6	7666.5	7701.4	7718.8	7698.9	7654.0
7.5°	7524.5	7494.6	7507.0	7519.5	7576.8	7609.2	7636.6	7673.9	7698.9	7696.4	7656.5
5°	7512.0	7474.6	7479.6	7531.9	7571.8	7594.2	7604.2	7636.6	7673.9	7681.4	7651.5
2.5°	7479.6	7462.2	7499.5	7504.5	7534.4	7551.9	7561.8	7591.7	7639.1	7656.5	7644.0
0°	7462.2	7437.3	7412.3	7432.3	7482.1	7519.5	7534.4	7579.3	7634.1	7651.5	7624.1



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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°	69.8	67.3	64.8	62.3	64.8	64.8	64.8	62.3	64.8	62.3	62.3
85°	216.8	206.8	199.3	189.4	179.4	171.9	162.0	152.0	149.5	147.0	142.0
82.5°	373.7	361.3	348.8	333.9	318.9	301.5	284.0	264.1	259.1	254.1	246.7
80°	525.7	508.3	490.8	473.4	458.4	441.0	421.1	398.6	383.7	371.2	356.3
77.5°	685.2	660.3	635.3	605.4	588.0	570.6	550.6	528.2	505.8	485.9	463.4
75°	867.1	839.6	814.7	784.8	752.4	720.1	687.7	657.8	625.4	595.5	565.6
72.5°	1068.9	1029.0	989.1	951.8	911.9	872.0	829.7	789.8	750.0	710.1	667.7
70°	1280.7	1230.8	1181.0	1131.2	1078.8	1026.5	976.7	926.9	877.0	824.7	777.4
67.5°	1529.8	1472.5	1407.7	1338.0	1260.7	1193.4	1128.7	1068.9	1009.1	949.3	889.5
65°	1841.2	1761.5	1674.3	1579.6	1489.9	1400.2	1305.6	1215.9	1146.1	1076.3	1009.1
62.5°	2224.9	2112.8	1990.7	1868.7	1759.0	1641.9	1532.3	1415.2	1305.6	1205.9	1123.7
60°	2683.4	2531.4	2381.9	2224.9	2073.0	1913.5	1774.0	1629.5	1492.4	1370.3	1250.8
57.5°	3189.2	3012.3	2832.9	2641.0	2434.2	2247.4	2058.0	1868.7	1706.7	1544.8	1410.2
55°	3702.4	3515.6	3313.7	3097.0	2870.3	2631.1	2374.4	2162.7	1940.9	1751.6	1577.1
52.5°	4190.8	3996.4	3787.1	3587.8	3316.2	3042.2	2760.6	2481.6	2222.5	1980.8	1769.0
50°	4626.8	4437.4	4235.6	4003.9	3752.3	3460.8	3146.8	2832.9	2526.4	2242.4	1978.3
47.5°	5025.4	4841.1	4639.2	4407.5	4178.3	3854.4	3538.0	3191.7	2850.3	2523.9	2215.0
45°	5399.2	5212.3	5003.0	4781.3	4517.2	4228.1	3901.8	3552.9	3186.7	2820.4	2464.1
42.5°	5738.0	5551.2	5339.4	5110.2	4848.5	4562.0	4245.6	3894.3	3525.5	3126.9	2735.7
40°	6034.5	5852.6	5648.3	5409.1	5165.0	4863.5	4552.0	4218.2	3837.0	3435.8	3004.8
37.5°	6293.6	6124.2	5922.4	5685.7	5426.6	5157.5	4836.1	4502.2	4158.4	3722.4	3281.4
35°	6522.9	6365.9	6159.1	5934.9	5680.7	5396.7	5095.2	4768.8	4397.6	3989.0	3560.4
32.5°	6722.2	6562.7	6373.4	6149.1	5902.5	5635.9	5326.9	4998.0	4646.7	4230.6	3764.7
30°	6891.6	6737.1	6557.7	6346.0	6109.3	5845.2	5543.7	5212.3	4853.5	4439.9	3979.0
27.5°	7038.6	6891.6	6717.2	6520.4	6293.6	6039.5	5735.5	5401.7	5035.4	4636.8	4175.8
25°	7165.7	7023.7	6861.7	6674.8	6450.6	6201.4	5914.9	5566.1	5199.8	4798.7	4342.8
22.5°	7280.3	7143.2	6981.3	6799.4	6595.1	6346.0	6056.9	5710.6	5339.4	4943.2	4494.7
20°	7382.4	7255.4	7095.9	6909.0	6704.7	6453.1	6166.6	5837.7	5464.0	5075.3	4631.8
17.5°	7464.7	7352.5	7193.1	6996.2	6791.9	6547.8	6268.7	5967.2	5571.1	5187.4	4746.4
15°	7522.0	7412.3	7267.8	7068.5	6869.2	6627.5	6348.4	6037.0	5668.3	5277.1	4841.1
12.5°	7561.8	7444.7	7310.2	7125.8	6926.5	6687.3	6415.7	6109.3	5750.5	5356.8	4923.3
10°	7571.8	7464.7	7330.1	7165.7	6971.3	6739.6	6473.0	6169.1	5817.7	5419.1	4990.6
7.5°	7576.8	7474.6	7352.5	7195.6	7003.7	6779.5	6515.4	6216.4	5867.6	5471.4	5040.4
5°	7574.3	7477.1	7367.5	7215.5	7023.7	6801.9	6542.8	6248.8	5902.5	5506.3	5077.8
2.5°	7566.8	7479.6	7377.5	7230.5	7046.1	6826.8	6570.2	6286.2	5939.8	5536.2	5107.7
0°	7586.7	7512.0	7382.4	7225.5	7051.1	6826.8	6567.7	6291.1	5944.8	5533.7	5105.2



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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°	62.3	59.8	59.8	57.3	54.8	52.3	47.3	44.8	39.9	32.4	24.9
85°	134.5	127.1	119.6	114.6	109.6	104.6	97.2	89.7	79.7	64.8	49.8
82.5°	236.7	221.7	206.8	189.4	174.4	159.5	147.0	134.5	119.6	97.2	74.7
80°	338.8	316.4	294.0	269.1	246.7	221.7	199.3	179.4	159.5	129.6	99.7
77.5°	441.0	411.1	378.7	348.8	316.4	284.0	251.6	224.2	194.3	159.5	124.6
75°	535.7	500.8	470.9	428.5	388.7	346.3	304.0	266.6	229.2	186.9	149.5
72.5°	630.4	585.5	543.2	503.3	458.4	406.1	358.8	311.4	264.1	214.3	169.4
70°	725.0	670.2	617.9	570.6	520.7	468.4	411.1	356.3	299.0	239.2	186.9
67.5°	822.2	759.9	700.1	640.3	583.0	523.2	463.4	401.1	333.9	264.1	206.8
65°	929.3	852.1	779.9	712.6	645.3	580.5	513.3	446.0	371.2	291.5	224.2
62.5°	1036.5	951.8	867.1	782.3	707.6	635.3	563.1	488.3	406.1	321.4	241.7
60°	1151.1	1053.9	956.8	862.1	769.9	690.2	610.4	530.7	443.5	348.8	259.1
57.5°	1278.2	1161.1	1051.4	944.3	839.6	745.0	657.8	573.1	475.9	376.2	279.1
55°	1422.7	1278.2	1148.6	1029.0	914.4	799.8	705.1	617.9	513.3	403.6	301.5
52.5°	1574.7	1407.7	1250.8	1116.2	994.1	864.6	750.0	652.8	550.6	431.0	321.4
50°	1751.6	1539.8	1365.4	1200.9	1063.9	929.3	797.3	692.6	588.0	463.4	341.3
47.5°	1933.4	1699.2	1480.0	1300.6	1138.6	991.6	852.1	727.5	622.9	493.3	361.3
45°	2145.2	1851.2	1609.5	1397.8	1210.9	1056.4	906.9	764.9	652.8	523.2	381.2
42.5°	2349.5	2030.6	1744.1	1504.9	1293.1	1118.7	956.8	804.8	682.7	553.1	398.6
40°	2591.2	2210.0	1873.6	1607.0	1375.3	1178.5	1006.6	847.1	710.1	580.5	416.1
37.5°	2822.9	2391.9	2030.6	1719.2	1455.1	1238.3	1056.4	887.0	735.0	607.9	438.5
35°	3052.1	2593.7	2180.1	1823.8	1537.3	1305.6	1106.2	924.4	759.9	630.4	458.4
32.5°	3271.4	2783.1	2332.1	1940.9	1627.0	1367.9	1151.1	959.2	784.8	650.3	478.4
30°	3475.7	2962.4	2481.6	2060.5	1709.2	1425.2	1193.4	994.1	814.7	667.7	498.3
27.5°	3662.6	3136.9	2631.1	2172.6	1786.4	1477.5	1238.3	1026.5	839.6	685.2	515.7
25°	3832.0	3293.8	2768.1	2274.8	1856.2	1534.8	1280.7	1058.9	862.1	700.1	530.7
22.5°	3991.4	3438.3	2892.7	2376.9	1940.9	1592.1	1320.5	1088.8	884.5	715.1	545.6
20°	4131.0	3570.4	3012.3	2479.1	2015.7	1644.4	1355.4	1116.2	904.4	725.0	560.6
17.5°	4243.1	3687.5	3119.4	2568.8	2080.4	1689.3	1385.3	1141.1	921.9	737.5	570.6
15°	4342.8	3787.1	3209.1	2646.0	2137.7	1726.6	1412.7	1161.1	936.8	745.0	583.0
12.5°	4427.5	3871.9	3286.3	2713.3	2187.6	1759.0	1435.1	1176.0	949.3	752.4	590.5
10°	4497.2	3939.1	3351.1	2765.6	2227.4	1783.9	1452.6	1191.0	959.2	759.9	598.0
7.5°	4549.6	3989.0	3398.5	2810.5	2259.8	1801.4	1467.5	1200.9	969.2	764.9	610.4
5°	4589.4	4031.3	3435.8	2840.4	2284.7	1826.3	1485.0	1213.4	979.2	769.9	610.4
2.5°	4619.3	4066.2	3465.7	2865.3	2304.7	1821.3	1485.0	1210.9	979.2	769.9	607.9
0°	4614.3	4068.7	3463.2	2865.3	2304.7	1816.3	1485.0	1208.4	979.2	769.9	607.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.4	12.5	5.0	0.0
85°	37.4	24.9	12.5	0.0
82.5°	54.8	34.9	17.4	0.0
80°	72.3	47.3	22.4	0.0
77.5°	92.2	59.8	29.9	0.0
75°	109.6	69.8	34.9	0.0
72.5°	127.1	82.2	39.9	0.0
70°	142.0	92.2	44.8	0.0
67.5°	157.0	104.6	52.3	0.0
65°	169.4	114.6	57.3	0.0
62.5°	179.4	127.1	62.3	0.0
60°	191.8	137.0	67.3	0.0
57.5°	201.8	144.5	72.3	0.0
55°	211.8	149.5	77.2	0.0
52.5°	221.7	157.0	82.2	0.0
50°	231.7	164.4	87.2	0.0
47.5°	241.7	169.4	89.7	0.0
45°	256.6	176.9	94.7	0.0
42.5°	269.1	181.9	99.7	0.0
40°	281.5	186.9	102.2	0.0
37.5°	294.0	191.8	107.1	0.0
35°	306.5	196.8	109.6	0.0
32.5°	316.4	201.8	112.1	0.0
30°	326.4	206.8	114.6	0.0
27.5°	336.4	209.3	117.1	0.0
25°	343.8	214.3	119.6	0.0
22.5°	351.3	216.8	122.1	0.0
20°	356.3	219.3	124.6	0.0
17.5°	363.8	221.7	127.1	0.0
15°	366.3	224.2	132.1	0.0
12.5°	371.2	226.7	132.1	0.0
10°	373.7	229.2	132.1	0.0
7.5°	378.7	229.2	132.1	0.0
5°	376.2	229.2	132.1	0.0
2.5°	376.2	229.2	132.1	0.0
0°	373.7	229.2	132.1	0.0

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