

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: P628468

Luminaire Tested: **IFLD-L-SA8D-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

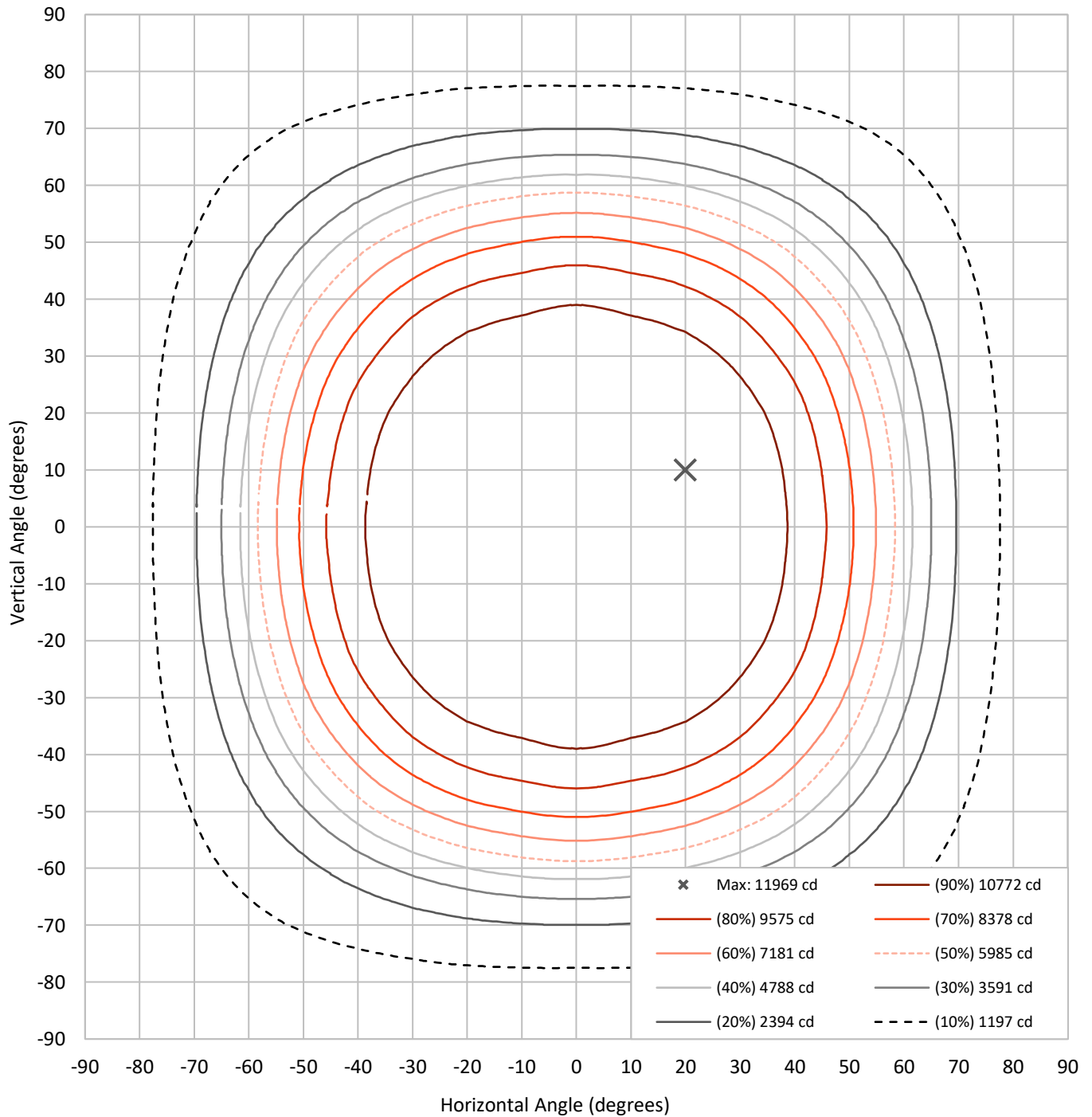
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36719.3 lumens	Max Intensity:	11969 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	75.2 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:	22531.7 lumens	Field Lumens:	27011.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	488.3		
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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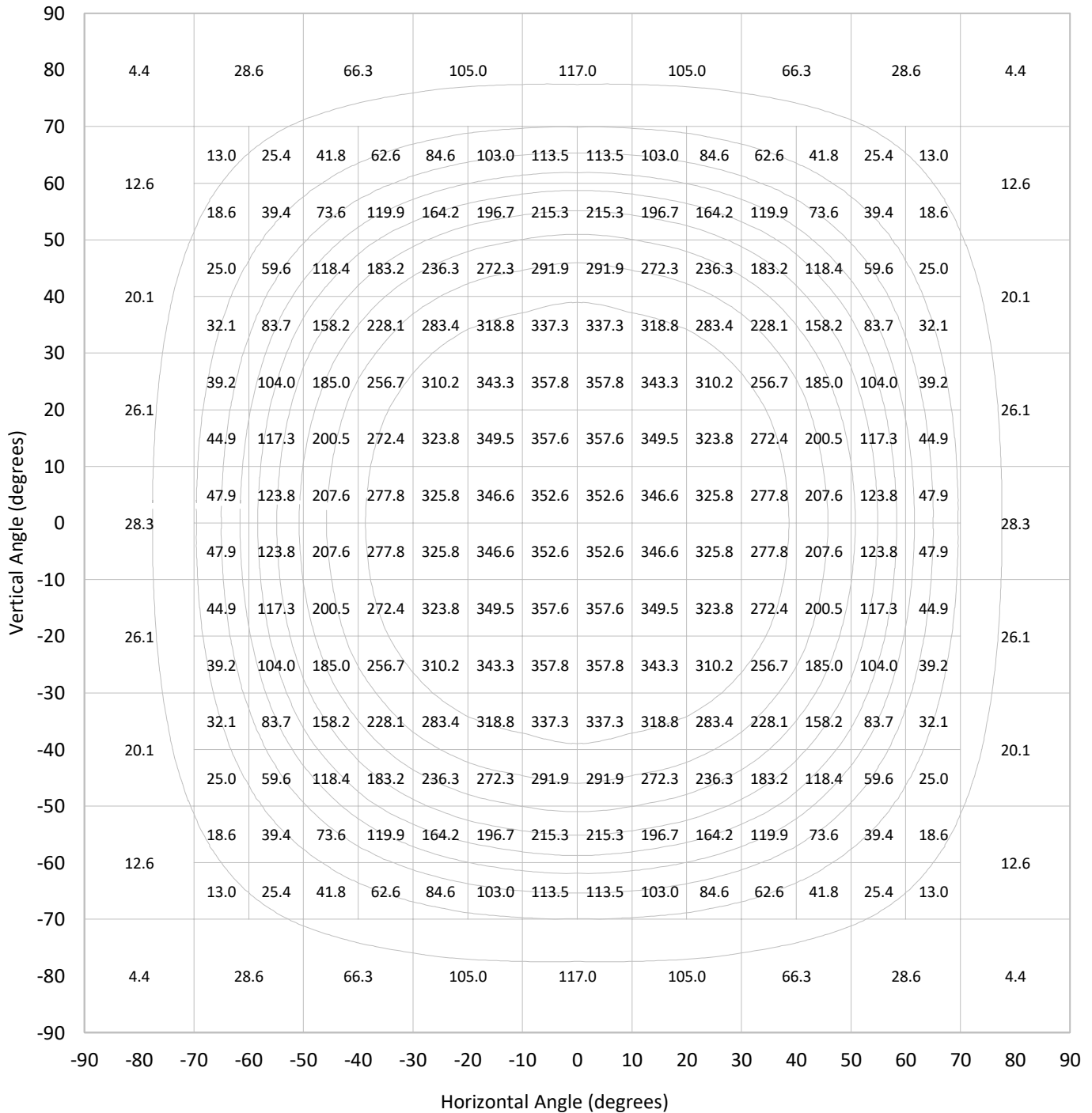
Iso-Candela Plot





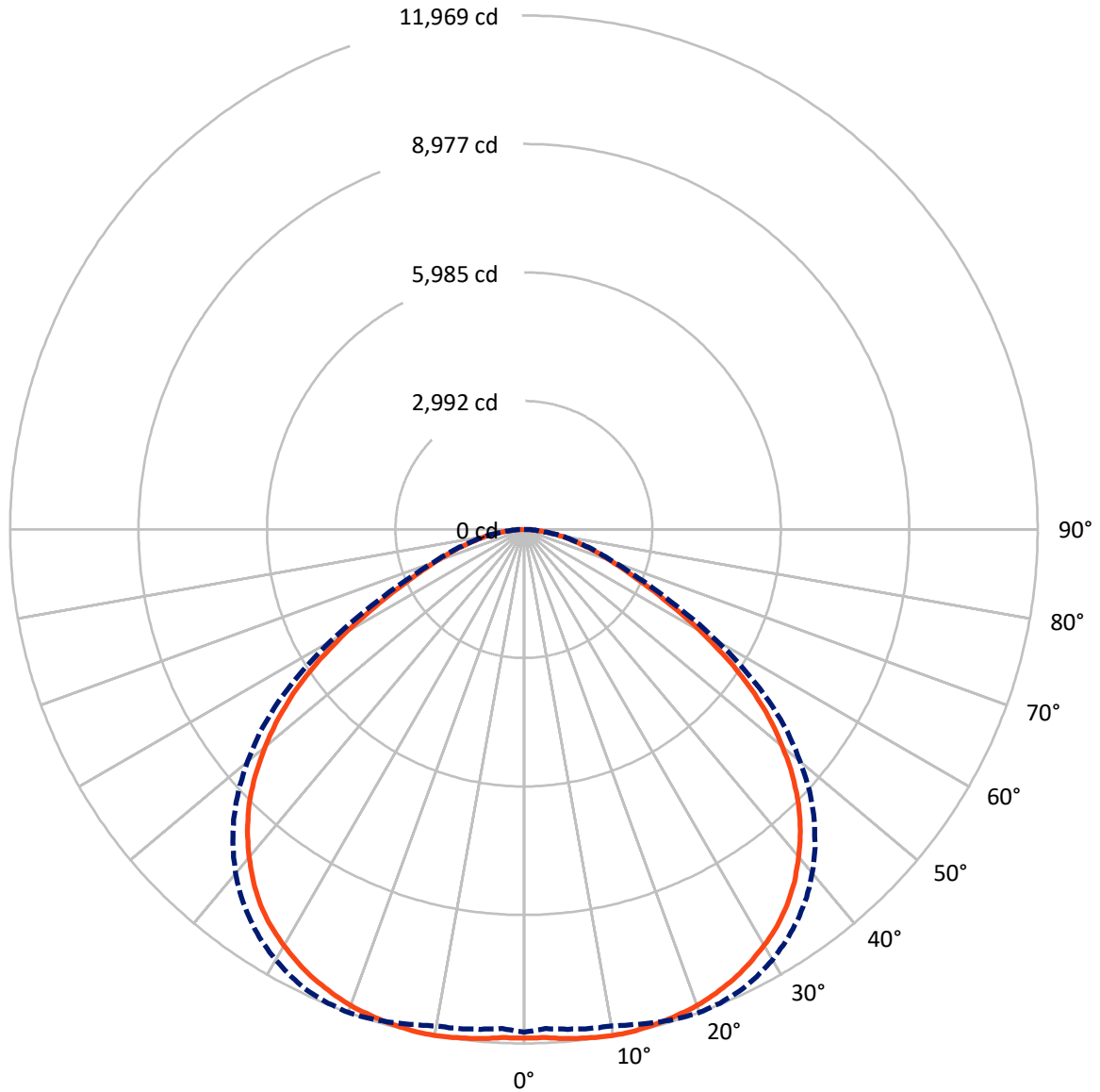
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Lumen Table



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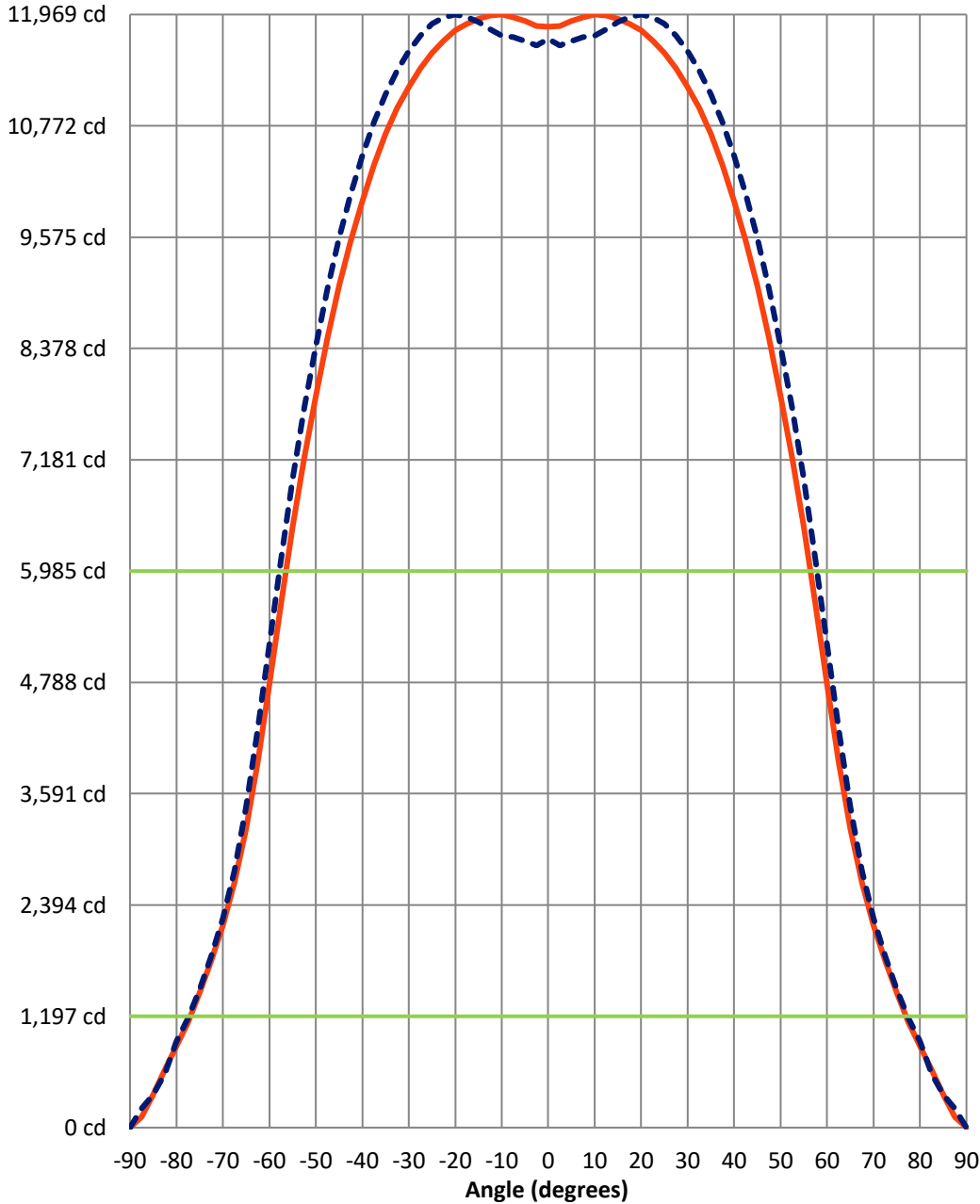
Luminous Intensity Polar Plot



— 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: 22531.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27011.7
 Efficiency: 73.6%

Spill:
 Lumens: 9707.6
 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°	96.6	104.3	108.2	112.0	115.9	119.8	123.6	119.8	115.9	115.9	112.0
85°	258.9	266.6	270.4	297.5	324.5	340.0	359.3	355.4	355.4	351.6	347.7
82.5°	517.7	540.9	560.2	587.2	602.7	625.9	641.3	629.7	622.0	606.6	595.0
80°	919.5	927.2	931.1	935.0	915.6	911.8	904.1	892.5	877.0	857.7	838.4
77.5°	1170.6	1178.4	1186.1	1178.4	1174.5	1170.6	1159.0	1147.4	1132.0	1116.5	1093.4
75°	1549.2	1549.2	1549.2	1537.7	1529.9	1518.3	1499.0	1479.7	1452.7	1421.8	1387.0
72.5°	1951.0	1947.2	1943.3	1920.1	1900.8	1877.6	1850.6	1827.4	1796.5	1761.7	1715.4
70°	2372.2	2379.9	2383.8	2352.8	2329.7	2298.8	2264.0	2221.5	2175.1	2124.9	2059.2
67.5°	2951.7	2944.0	2936.2	2893.7	2862.8	2820.3	2770.1	2708.3	2638.7	2561.5	2468.8
65°	3670.3	3681.9	3658.7	3616.2	3558.2	3488.7	3411.4	3322.6	3218.3	3102.4	2971.0
62.5°	4539.6	4558.9	4531.8	4477.8	4404.3	4311.6	4203.4	4076.0	3933.0	3770.7	3608.5
60°	5528.6	5524.8	5474.5	5401.1	5304.5	5188.6	5068.9	4929.8	4767.5	4578.2	4381.2
57.5°	6436.5	6428.8	6367.0	6293.6	6197.0	6073.4	5945.9	5799.1	5629.1	5428.2	5200.2
55°	7251.7	7244.0	7182.2	7104.9	7004.5	6880.8	6764.9	6625.8	6459.7	6247.2	6003.8
52.5°	7974.2	7978.0	7924.0	7839.0	7730.8	7611.0	7499.0	7359.9	7201.5	6989.0	6753.3
50°	8638.7	8634.8	8576.9	8499.6	8399.2	8283.3	8171.2	8032.1	7866.0	7661.2	7433.3
47.5°	9256.9	9249.1	9183.4	9098.5	8994.1	8893.7	8789.4	8665.7	8491.9	8287.1	8059.2
45°	9774.6	9759.1	9693.4	9612.3	9511.8	9423.0	9330.3	9237.5	9052.1	8862.8	8646.4
42.5°	10218.9	10215.0	10149.3	10068.2	9967.7	9890.5	9805.5	9689.6	9535.0	9361.2	9148.7
40°	10643.8	10612.9	10547.3	10470.0	10377.3	10311.6	10226.6	10110.7	9960.0	9790.0	9585.2
37.5°	10960.6	10964.5	10895.0	10810.0	10728.8	10667.0	10589.7	10481.6	10350.2	10184.1	9979.3
35°	11262.0	11242.7	11184.7	11111.3	11037.9	10968.4	10887.2	10794.5	10686.3	10531.8	10338.6
32.5°	11459.0	11486.1	11416.5	11339.3	11296.8	11242.7	11157.7	11061.1	10964.5	10810.0	10636.1
30°	11675.4	11652.2	11598.1	11532.4	11501.5	11466.8	11393.3	11300.6	11188.6	11049.5	10887.2
27.5°	11826.1	11814.5	11748.8	11687.0	11671.5	11640.6	11582.7	11501.5	11389.5	11254.3	11103.6
25°	11891.7	11899.5	11837.6	11802.9	11802.9	11783.6	11737.2	11667.7	11555.6	11432.0	11285.2
22.5°	11922.6	11914.9	11872.4	11864.7	11884.0	11868.6	11849.2	11787.4	11687.0	11586.5	11462.9
20°	11942.0	11887.9	11849.2	11880.1	11903.3	11899.5	11884.0	11845.4	11799.0	11714.0	11605.8
17.5°	11899.5	11864.7	11818.3	11864.7	11914.9	11918.8	11903.3	11880.1	11868.6	11814.5	11717.9
15°	11795.1	11768.1	11775.8	11822.2	11880.1	11899.5	11911.1	11938.1	11922.6	11880.1	11795.1
12.5°	11725.6	11690.8	11725.6	11772.0	11802.9	11814.5	11907.2	11957.4	11957.4	11918.8	11864.7
10°	11706.3	11636.7	11683.1	11725.6	11741.1	11810.6	11887.9	11942.0	11969.0	11938.1	11868.6
7.5°	11667.7	11621.3	11640.6	11659.9	11748.8	11799.0	11841.5	11899.5	11938.1	11934.2	11872.4
5°	11648.3	11590.4	11598.1	11679.2	11741.1	11775.8	11791.3	11841.5	11899.5	11911.1	11864.7
2.5°	11598.1	11571.1	11629.0	11636.7	11683.1	11710.2	11725.6	11772.0	11845.4	11872.4	11853.1
0°	11571.1	11532.4	11493.8	11524.7	11602.0	11659.9	11683.1	11752.7	11837.6	11864.7	11822.2



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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°	108.2	104.3	100.5	96.6	100.5	100.5	100.5	96.6	100.5	96.6	96.6
85°	336.1	320.7	309.1	293.6	278.2	266.6	251.1	235.7	231.8	227.9	220.2
82.5°	579.5	560.2	540.9	517.7	494.5	467.5	440.4	409.5	401.8	394.1	382.5
80°	815.2	788.1	761.1	734.1	710.9	683.8	652.9	618.2	595.0	575.7	552.5
77.5°	1062.5	1023.8	985.2	938.8	911.8	884.7	853.8	819.1	784.3	753.4	718.6
75°	1344.5	1302.0	1263.4	1217.0	1166.8	1116.5	1066.3	1020.0	969.7	923.4	877.0
72.5°	1657.4	1595.6	1533.8	1475.8	1414.0	1352.2	1286.5	1224.7	1162.9	1101.1	1035.4
70°	1985.8	1908.6	1831.3	1754.0	1672.9	1591.7	1514.5	1437.2	1359.9	1278.8	1205.4
67.5°	2372.2	2283.3	2182.9	2074.7	1954.9	1850.6	1750.1	1657.4	1564.7	1472.0	1379.3
65°	2855.1	2731.5	2596.2	2449.4	2310.4	2171.3	2024.5	1885.4	1777.2	1669.0	1564.7
62.5°	3450.1	3276.2	3086.9	2897.6	2727.6	2546.0	2376.0	2194.4	2024.5	1869.9	1742.4
60°	4160.9	3925.3	3693.5	3450.1	3214.4	2967.1	2750.8	2526.7	2314.2	2124.9	1939.5
57.5°	4945.2	4670.9	4392.8	4095.3	3774.6	3484.8	3191.2	2897.6	2646.5	2395.3	2186.7
55°	5741.1	5451.3	5138.4	4802.3	4450.7	4079.8	3681.9	3353.5	3009.6	2716.0	2445.6
52.5°	6498.3	6197.0	5872.5	5563.4	5142.3	4717.3	4280.7	3848.0	3446.2	3071.5	2743.1
50°	7174.4	6880.8	6567.9	6208.6	5818.4	5366.3	4879.6	4392.8	3917.6	3477.1	3067.6
47.5°	7792.6	7506.7	7193.8	6834.5	6479.0	5976.8	5486.1	4949.1	4419.8	3913.7	3434.6
45°	8372.1	8082.4	7757.8	7414.0	7004.5	6556.3	6050.2	5509.3	4941.4	4373.4	3821.0
42.5°	8897.6	8607.8	8279.4	7924.0	7518.3	7074.0	6583.3	6038.6	5466.8	4848.6	4242.1
40°	9357.3	9075.3	8758.5	8387.6	8009.0	7541.5	7058.5	6540.8	5949.7	5327.7	4659.3
37.5°	9759.1	9496.4	9183.4	8816.4	8414.6	7997.4	7499.0	6981.3	6448.1	5772.0	5088.2
35°	10114.5	9871.1	9550.5	9202.8	8808.7	8368.3	7900.8	7394.7	6819.0	6185.4	5520.9
32.5°	10423.6	10176.4	9882.7	9535.0	9152.5	8739.2	8260.1	7750.1	7205.4	6560.2	5837.7
30°	10686.3	10446.8	10168.6	9840.2	9473.2	9063.7	8596.2	8082.4	7526.0	6884.7	6169.9
27.5°	10914.3	10686.3	10415.9	10110.7	9759.1	9365.0	8893.7	8376.0	7808.1	7189.9	6475.2
25°	11111.3	10891.1	10640.0	10350.2	10002.5	9616.2	9171.9	8631.0	8063.0	7441.0	6734.0
22.5°	11289.0	11076.5	10825.4	10543.4	10226.6	9840.2	9392.1	8855.1	8279.4	7665.1	6969.7
20°	11447.4	11250.4	11003.1	10713.4	10396.6	10006.4	9562.1	9052.1	8472.6	7869.9	7182.2
17.5°	11574.9	11401.1	11153.8	10848.6	10531.8	10153.2	9720.5	9253.0	8638.7	8043.7	7359.9
15°	11663.8	11493.8	11269.7	10960.6	10651.6	10276.8	9844.1	9361.2	8789.4	8182.8	7506.7
12.5°	11725.6	11544.0	11335.4	11049.5	10740.4	10369.5	9948.4	9473.2	8916.9	8306.4	7634.2
10°	11741.1	11574.9	11366.3	11111.3	10810.0	10450.7	10037.3	9565.9	9021.2	8403.0	7738.5
7.5°	11748.8	11590.4	11401.1	11157.7	10860.2	10512.5	10103.0	9639.3	9098.5	8484.2	7815.8
5°	11744.9	11594.2	11424.3	11188.6	10891.1	10547.3	10145.5	9689.6	9152.5	8538.3	7873.7
2.5°	11733.3	11598.1	11439.7	11211.8	10925.9	10585.9	10187.9	9747.5	9210.5	8584.6	7920.1
0°	11764.2	11648.3	11447.4	11204.0	10933.6	10585.9	10184.1	9755.2	9218.2	8580.7	7916.2



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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°	96.6	92.7	92.7	88.9	85.0	81.1	73.4	69.5	61.8	50.2	38.6
85°	208.6	197.0	185.4	177.7	170.0	162.3	150.7	139.1	123.6	100.5	77.3
82.5°	367.0	343.8	320.7	293.6	270.4	247.3	227.9	208.6	185.4	150.7	115.9
80°	525.4	490.7	455.9	417.3	382.5	343.8	309.1	278.2	247.3	200.9	154.5
77.5°	683.8	637.5	587.2	540.9	490.7	440.4	390.2	347.7	301.4	247.3	193.2
75°	830.6	776.6	730.2	664.5	602.7	537.0	471.3	413.4	355.4	289.8	231.8
72.5°	977.5	907.9	842.2	780.4	710.9	629.7	556.3	482.9	409.5	332.3	262.7
70°	1124.3	1039.3	958.1	884.7	807.5	726.3	637.5	552.5	463.6	370.9	289.8
67.5°	1274.9	1178.4	1085.6	992.9	904.1	811.3	718.6	622.0	517.7	409.5	320.7
65°	1441.1	1321.3	1209.3	1105.0	1000.6	900.2	795.9	691.6	575.7	452.0	347.7
62.5°	1607.2	1475.8	1344.5	1213.1	1097.2	985.2	873.1	757.2	629.7	498.4	374.8
60°	1784.9	1634.2	1483.6	1336.8	1193.8	1070.2	946.5	822.9	687.7	540.9	401.8
57.5°	1982.0	1800.4	1630.4	1464.3	1302.0	1155.2	1020.0	888.6	737.9	583.4	432.7
55°	2206.0	1982.0	1781.1	1595.6	1417.9	1240.2	1093.4	958.1	795.9	625.9	467.5
52.5°	2441.7	2182.9	1939.5	1730.8	1541.5	1340.6	1162.9	1012.2	853.8	668.4	498.4
50°	2716.0	2387.6	2117.2	1862.2	1649.7	1441.1	1236.3	1074.0	911.8	718.6	529.3
47.5°	2998.0	2634.9	2294.9	2016.7	1765.6	1537.7	1321.3	1128.1	965.9	765.0	560.2
45°	3326.4	2870.6	2495.8	2167.4	1877.6	1638.1	1406.3	1186.1	1012.2	811.3	591.1
42.5°	3643.2	3148.7	2704.4	2333.5	2005.1	1734.7	1483.6	1247.9	1058.6	857.7	618.2
40°	4018.0	3426.9	2905.3	2491.9	2132.6	1827.4	1560.8	1313.6	1101.1	900.2	645.2
37.5°	4377.3	3708.9	3148.7	2665.8	2256.3	1920.1	1638.1	1375.4	1139.7	942.7	680.0
35°	4732.7	4021.9	3380.5	2828.1	2383.8	2024.5	1715.4	1433.3	1178.4	977.5	710.9
32.5°	5072.7	4315.5	3616.2	3009.6	2522.8	2121.0	1784.9	1487.4	1217.0	1008.4	741.8
30°	5389.5	4593.7	3848.0	3195.1	2650.3	2209.9	1850.6	1541.5	1263.4	1035.4	772.7
27.5°	5679.3	4864.1	4079.8	3368.9	2770.1	2291.0	1920.1	1591.7	1302.0	1062.5	799.7
25°	5942.0	5107.5	4292.3	3527.3	2878.3	2379.9	1985.8	1642.0	1336.8	1085.6	822.9
22.5°	6189.3	5331.6	4485.5	3685.7	3009.6	2468.8	2047.6	1688.3	1371.5	1108.8	846.1
20°	6405.6	5536.3	4670.9	3844.1	3125.5	2549.9	2101.7	1730.8	1402.4	1124.3	869.3
17.5°	6579.5	5717.9	4837.1	3983.2	3226.0	2619.4	2148.1	1769.5	1429.5	1143.6	884.7
15°	6734.0	5872.5	4976.1	4103.0	3314.9	2677.4	2190.6	1800.4	1452.7	1155.2	904.1
12.5°	6865.4	6003.8	5095.9	4207.3	3392.1	2727.6	2225.4	1823.6	1472.0	1166.8	915.6
10°	6973.5	6108.1	5196.4	4288.4	3453.9	2766.2	2252.4	1846.7	1487.4	1178.4	927.2
7.5°	7054.7	6185.4	5269.8	4358.0	3504.2	2793.3	2275.6	1862.2	1502.9	1186.1	946.5
5°	7116.5	6251.1	5327.7	4404.3	3542.8	2831.9	2302.6	1881.5	1518.3	1193.8	946.5
2.5°	7162.9	6305.2	5374.1	4443.0	3573.7	2824.2	2302.6	1877.6	1518.3	1193.8	942.7
0°	7155.1	6309.0	5370.2	4443.0	3573.7	2816.5	2302.6	1873.8	1518.3	1193.8	942.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.0	19.3	7.7	0.0
85°	58.0	38.6	19.3	0.0
82.5°	85.0	54.1	27.0	0.0
80°	112.0	73.4	34.8	0.0
77.5°	142.9	92.7	46.4	0.0
75°	170.0	108.2	54.1	0.0
72.5°	197.0	127.5	61.8	0.0
70°	220.2	142.9	69.5	0.0
67.5°	243.4	162.3	81.1	0.0
65°	262.7	177.7	88.9	0.0
62.5°	278.2	197.0	96.6	0.0
60°	297.5	212.5	104.3	0.0
57.5°	312.9	224.1	112.0	0.0
55°	328.4	231.8	119.8	0.0
52.5°	343.8	243.4	127.5	0.0
50°	359.3	255.0	135.2	0.0
47.5°	374.8	262.7	139.1	0.0
45°	397.9	274.3	146.8	0.0
42.5°	417.3	282.0	154.5	0.0
40°	436.6	289.8	158.4	0.0
37.5°	455.9	297.5	166.1	0.0
35°	475.2	305.2	170.0	0.0
32.5°	490.7	312.9	173.9	0.0
30°	506.1	320.7	177.7	0.0
27.5°	521.6	324.5	181.6	0.0
25°	533.2	332.3	185.4	0.0
22.5°	544.7	336.1	189.3	0.0
20°	552.5	340.0	193.2	0.0
17.5°	564.1	343.8	197.0	0.0
15°	567.9	347.7	204.8	0.0
12.5°	575.7	351.6	204.8	0.0
10°	579.5	355.4	204.8	0.0
7.5°	587.2	355.4	204.8	0.0
5°	583.4	355.4	204.8	0.0
2.5°	583.4	355.4	204.8	0.0
0°	579.5	355.4	204.8	0.0

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