

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: P628320

Luminaire Tested: **IFLD-L-SA8A-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628320
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

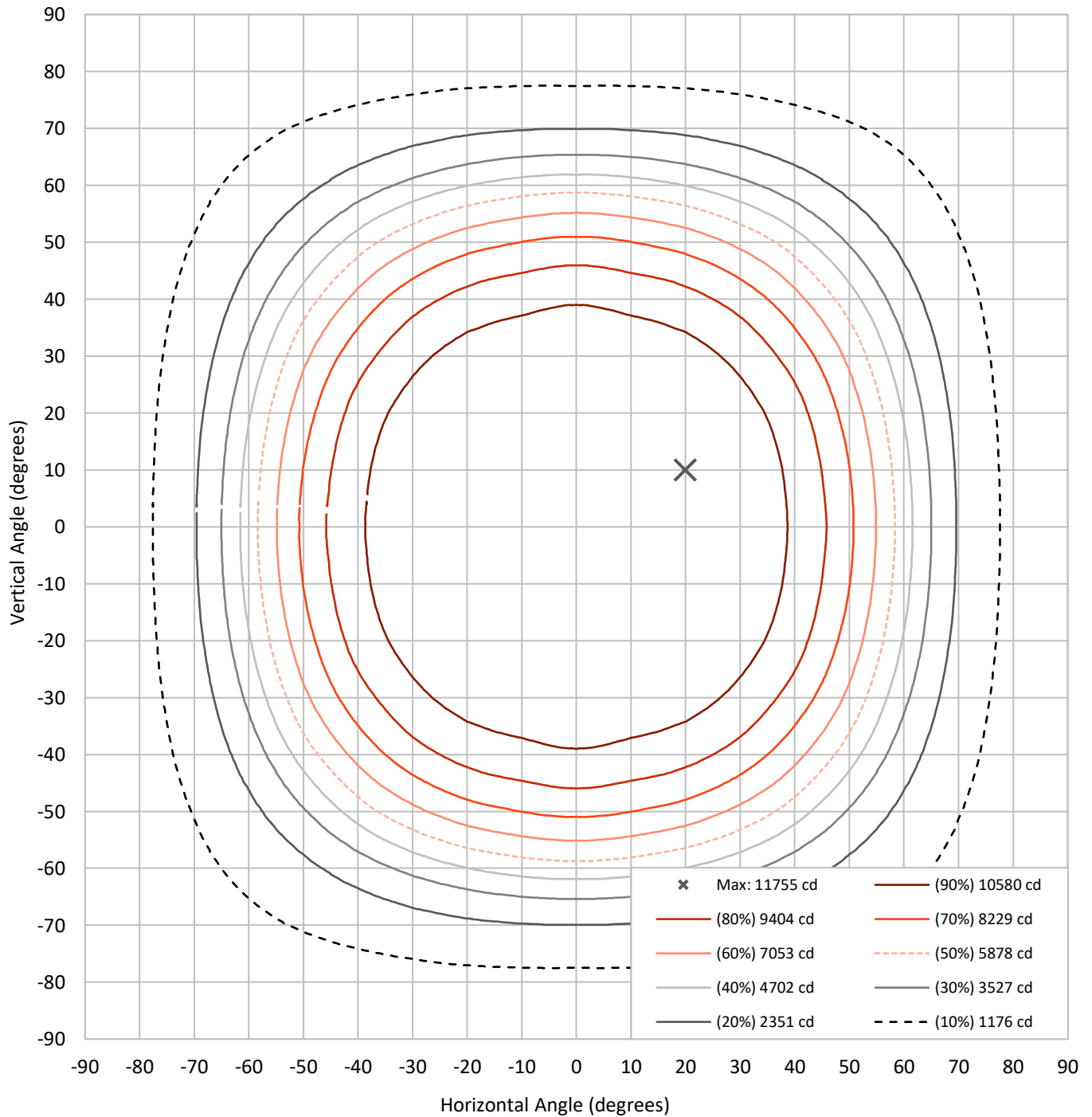
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36062.9 lumens	Max Intensity:	11755 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	145.5 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:	22128.9 lumens	Field Lumens:	26528.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	247.8		
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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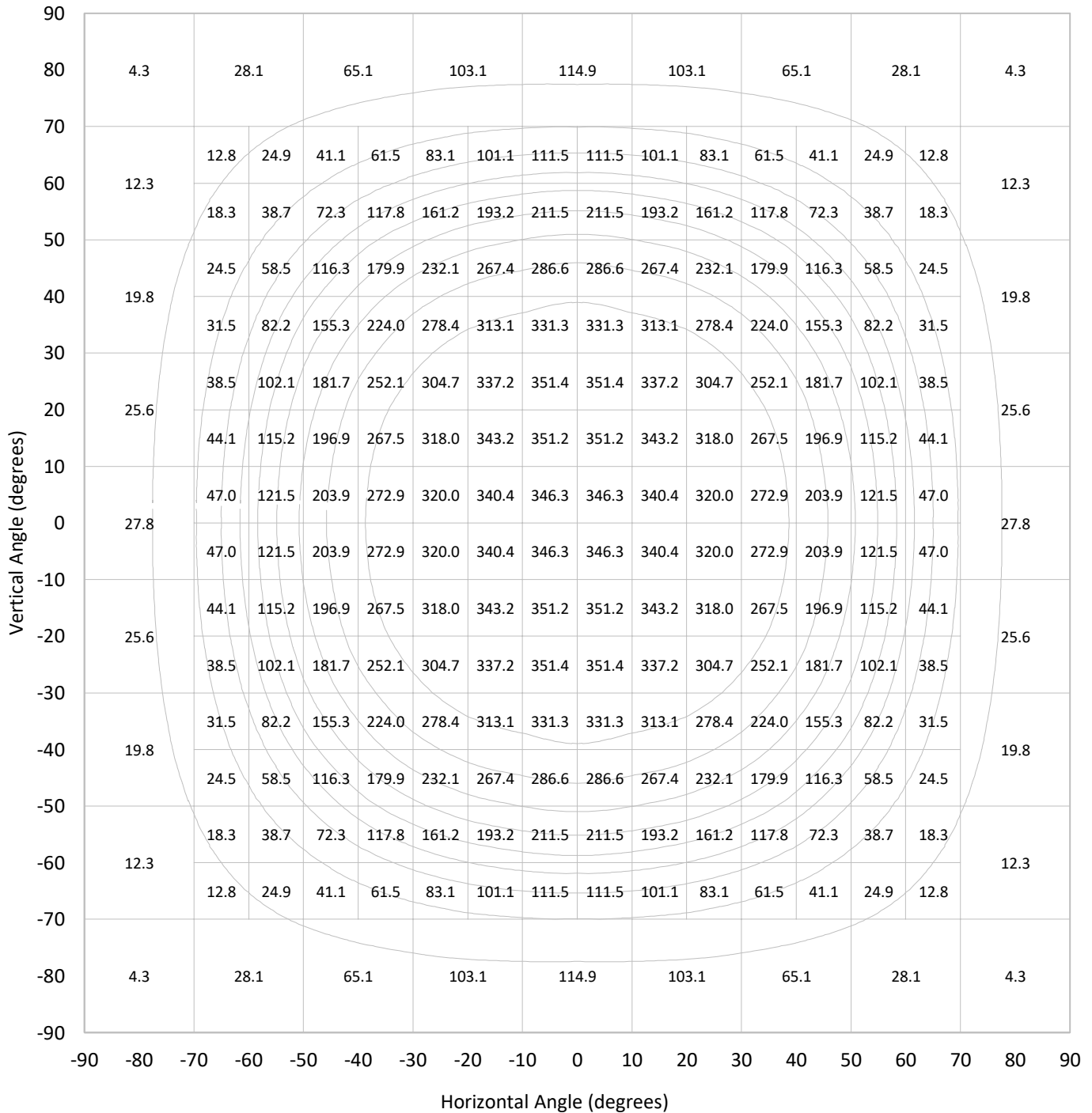
Iso-Candela Plot





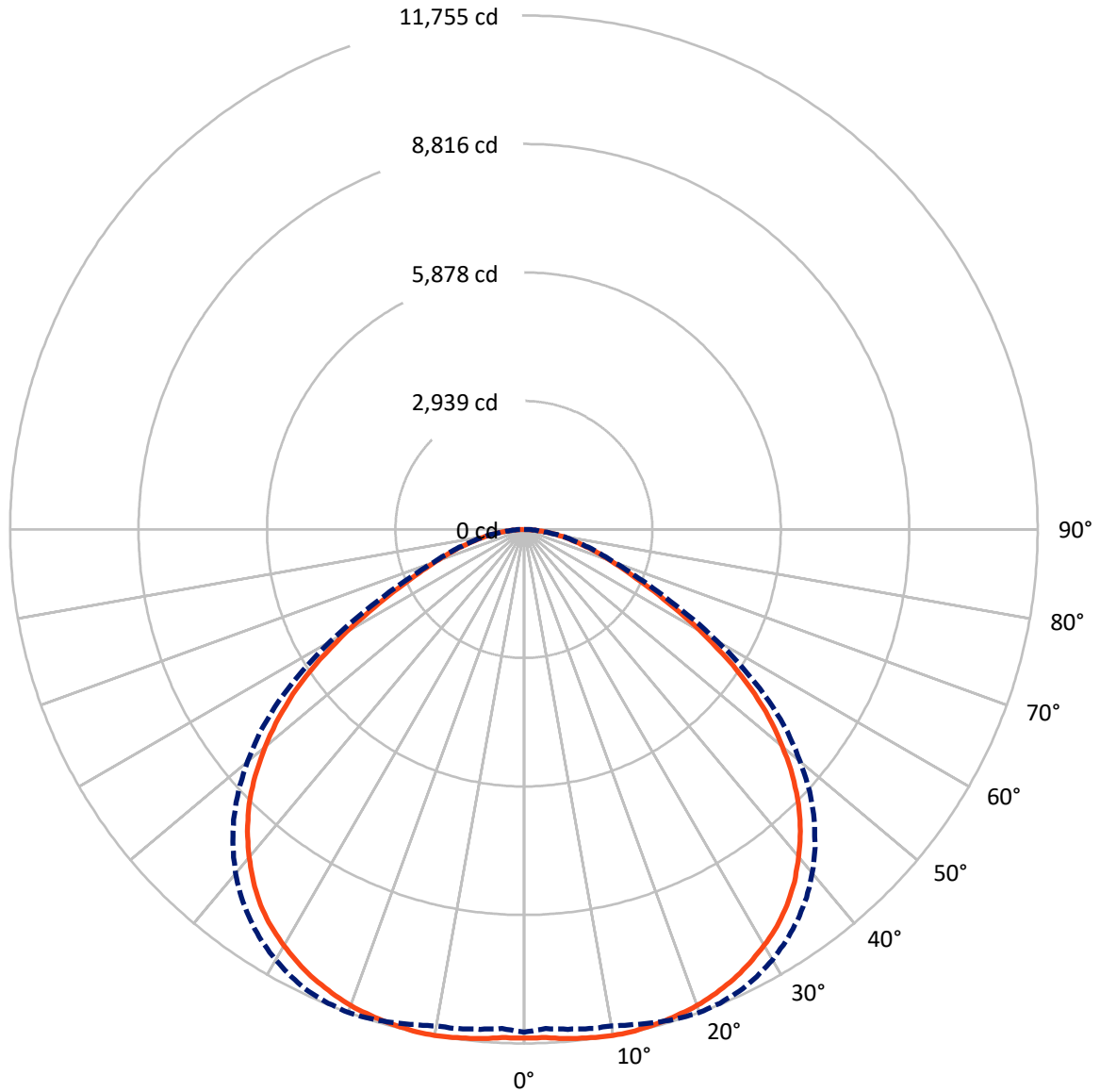
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Lumen Table



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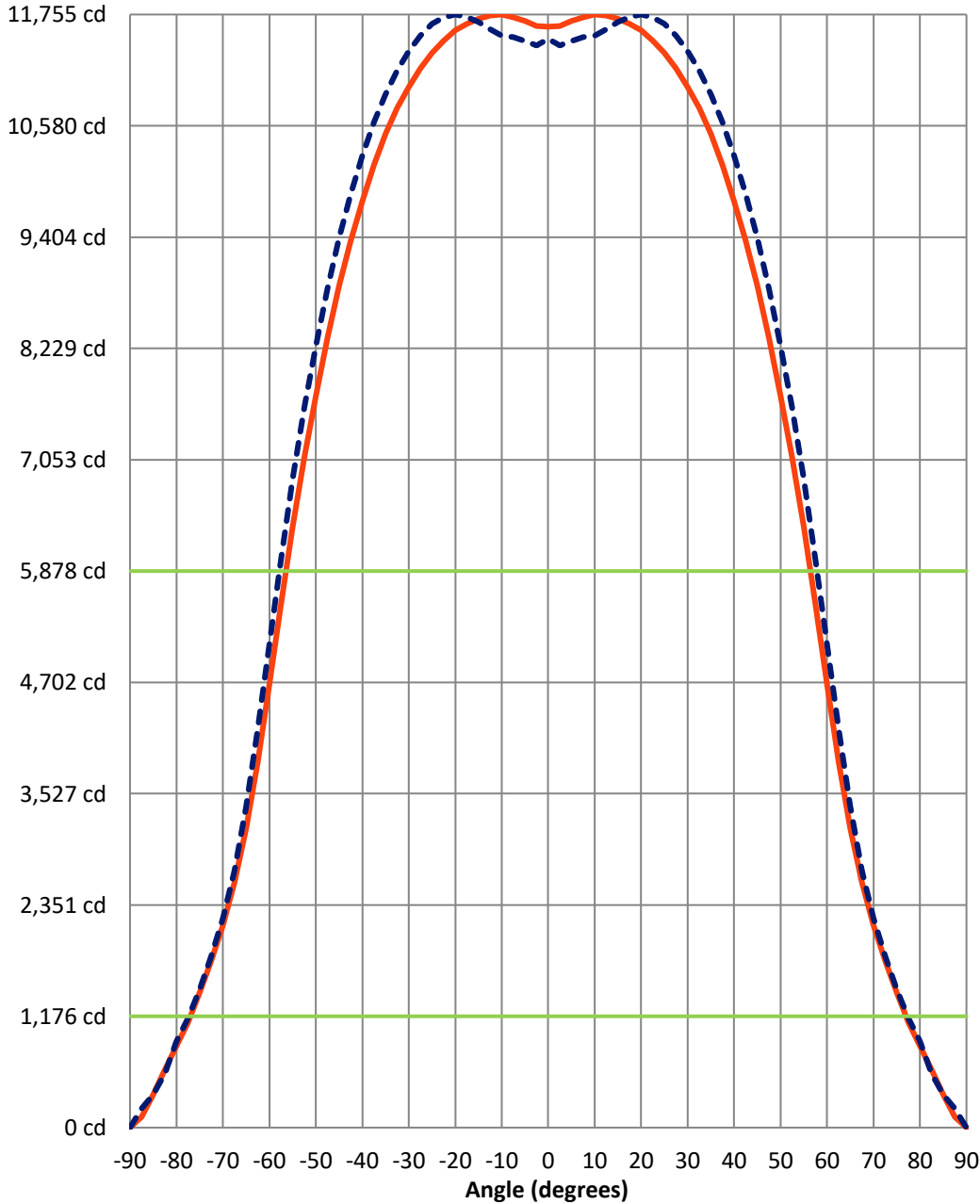
Luminous Intensity Polar Plot



— 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: 22128.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 26528.8
 Efficiency: 73.6%

Spill:
 Lumens: 9534.1
 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°	94.9	102.4	106.2	110.0	113.8	117.6	121.4	117.6	113.8	113.8	110.0
85°	254.2	261.8	265.6	292.2	318.7	333.9	352.9	349.1	349.1	345.3	341.5
82.5°	508.4	531.2	550.2	576.7	591.9	614.7	629.9	618.5	610.9	595.7	584.3
80°	903.1	910.7	914.5	918.2	899.3	895.5	887.9	876.5	861.3	842.4	823.4
77.5°	1149.7	1157.3	1164.9	1157.3	1153.5	1149.7	1138.3	1126.9	1111.8	1096.6	1073.8
75°	1521.6	1521.6	1521.6	1510.2	1502.6	1491.2	1472.2	1453.3	1426.7	1396.3	1362.2
72.5°	1916.2	1912.4	1908.6	1885.8	1866.8	1844.1	1817.5	1794.8	1764.4	1730.2	1684.7
70°	2329.8	2337.3	2341.1	2310.8	2288.0	2257.7	2223.5	2181.8	2136.2	2086.9	2022.4
67.5°	2898.9	2891.3	2883.7	2842.0	2811.6	2769.9	2720.6	2659.9	2591.6	2515.7	2424.6
65°	3604.7	3616.1	3593.3	3551.6	3494.6	3426.3	3350.5	3263.2	3160.7	3046.9	2917.9
62.5°	4458.4	4477.4	4450.8	4397.7	4325.6	4234.5	4128.3	4003.1	3862.7	3703.3	3544.0
60°	5429.8	5426.0	5376.7	5304.6	5209.7	5095.9	4978.3	4841.7	4682.3	4496.4	4302.8
57.5°	6321.5	6313.9	6253.2	6181.1	6086.2	5964.8	5839.6	5695.4	5528.4	5331.1	5107.3
55°	7122.1	7114.5	7053.8	6977.9	6879.2	6757.8	6644.0	6507.4	6344.2	6135.5	5896.5
52.5°	7831.6	7835.4	7782.3	7698.8	7592.6	7475.0	7364.9	7228.3	7072.8	6864.1	6632.6
50°	8484.3	8480.5	8423.6	8347.7	8249.0	8135.2	8025.2	7888.6	7725.4	7524.3	7300.4
47.5°	9091.4	9083.8	9019.3	8935.8	8833.4	8734.7	8632.3	8510.8	8340.1	8139.0	7915.1
45°	9599.8	9584.7	9520.1	9440.5	9341.8	9254.5	9163.5	9072.4	8890.3	8704.4	8491.9
42.5°	10036.2	10032.4	9967.9	9888.2	9789.5	9713.7	9630.2	9516.4	9364.6	9193.8	8985.1
40°	10453.6	10423.2	10358.7	10282.8	10191.8	10127.2	10043.8	9929.9	9782.0	9615.0	9413.9
37.5°	10764.7	10768.5	10700.2	10616.7	10537.0	10476.3	10400.4	10294.2	10165.2	10002.0	9800.9
35°	11060.7	11041.7	10984.8	10912.7	10840.6	10772.3	10692.6	10601.5	10495.3	10343.5	10153.8
32.5°	11254.2	11280.7	11212.4	11136.6	11094.8	11041.7	10958.2	10863.4	10768.5	10616.7	10446.0
30°	11466.7	11443.9	11390.8	11326.3	11295.9	11261.8	11189.7	11098.6	10988.6	10852.0	10692.6
27.5°	11614.7	11603.3	11538.8	11478.1	11462.9	11432.5	11375.6	11295.9	11185.9	11053.1	10905.1
25°	11679.2	11686.7	11626.0	11591.9	11591.9	11572.9	11527.4	11459.1	11349.0	11227.6	11083.4
22.5°	11709.5	11701.9	11660.2	11652.6	11671.6	11656.4	11637.4	11576.7	11478.1	11379.4	11258.0
20°	11728.5	11675.4	11637.4	11667.8	11690.5	11686.7	11671.6	11633.6	11588.1	11504.6	11398.4
17.5°	11686.7	11652.6	11607.1	11652.6	11701.9	11705.7	11690.5	11667.8	11656.4	11603.3	11508.4
15°	11584.3	11557.7	11565.3	11610.9	11667.8	11686.7	11698.1	11724.7	11709.5	11667.8	11584.3
12.5°	11516.0	11481.8	11516.0	11561.5	11591.9	11603.3	11694.3	11743.7	11743.7	11705.7	11652.6
10°	11497.0	11428.7	11474.3	11516.0	11531.2	11599.5	11675.4	11728.5	11755.0	11724.7	11656.4
7.5°	11459.1	11413.6	11432.5	11451.5	11538.8	11588.1	11629.8	11686.7	11724.7	11720.9	11660.2
5°	11440.1	11383.2	11390.8	11470.5	11531.2	11565.3	11580.5	11629.8	11686.7	11698.1	11652.6
2.5°	11390.8	11364.2	11421.1	11428.7	11474.3	11500.8	11516.0	11561.5	11633.6	11660.2	11641.2
0°	11364.2	11326.3	11288.3	11318.7	11394.6	11451.5	11474.3	11542.6	11626.0	11652.6	11610.9



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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°	106.2	102.4	98.7	94.9	98.7	98.7	98.7	94.9	98.7	94.9	94.9
85°	330.1	314.9	303.6	288.4	273.2	261.8	246.6	231.5	227.7	223.9	216.3
82.5°	569.2	550.2	531.2	508.4	485.7	459.1	432.6	402.2	394.6	387.0	375.6
80°	800.6	774.1	747.5	720.9	698.2	671.6	641.3	607.1	584.3	565.4	542.6
77.5°	1043.5	1005.5	967.6	922.0	895.5	868.9	838.6	804.4	770.3	739.9	705.8
75°	1320.5	1278.7	1240.8	1195.2	1145.9	1096.6	1047.3	1001.7	952.4	906.9	861.3
72.5°	1627.8	1567.1	1506.4	1449.5	1388.7	1328.0	1263.5	1202.8	1142.1	1081.4	1016.9
70°	1950.3	1874.4	1798.5	1722.7	1643.0	1563.3	1487.4	1411.5	1335.6	1255.9	1183.9
67.5°	2329.8	2242.5	2143.8	2037.6	1920.0	1817.5	1718.9	1627.8	1536.7	1445.7	1354.6
65°	2804.1	2682.6	2549.8	2405.6	2269.1	2132.5	1988.3	1851.7	1745.4	1639.2	1536.7
62.5°	3388.4	3217.6	3031.7	2845.8	2678.8	2500.5	2333.6	2155.2	1988.3	1836.5	1711.3
60°	4086.6	3855.1	3627.4	3388.4	3156.9	2914.1	2701.6	2481.5	2272.8	2086.9	1904.8
57.5°	4856.8	4587.4	4314.2	4022.1	3707.1	3422.5	3134.2	2845.8	2599.2	2352.5	2147.6
55°	5638.5	5353.9	5046.5	4716.4	4371.1	4006.9	3616.1	3293.5	2955.8	2667.5	2401.9
52.5°	6382.2	6086.2	5767.5	5463.9	5050.3	4633.0	4204.2	3779.2	3384.6	3016.5	2694.0
50°	7046.2	6757.8	6450.5	6097.6	5714.4	5270.4	4792.3	4314.2	3847.5	3415.0	3012.8
47.5°	7653.3	7372.5	7065.2	6712.3	6363.2	5869.9	5388.0	4860.6	4340.8	3843.7	3373.2
45°	8222.5	7937.9	7619.2	7281.5	6879.2	6439.1	5942.0	5410.8	4853.0	4295.3	3752.7
42.5°	8738.5	8453.9	8131.4	7782.3	7383.9	6947.5	6465.7	5930.6	5369.1	4762.0	4166.2
40°	9190.0	8913.0	8601.9	8237.6	7865.8	7406.7	6932.4	6423.9	5843.4	5232.5	4576.0
37.5°	9584.7	9326.6	9019.3	8658.8	8264.2	7854.4	7364.9	6856.5	6332.9	5668.8	4997.2
35°	9933.7	9694.7	9379.8	9038.3	8651.2	8218.7	7759.5	7262.5	6697.1	6074.8	5422.2
32.5°	10237.3	9994.4	9706.1	9364.6	8988.9	8582.9	8112.4	7611.6	7076.6	6442.9	5733.3
30°	10495.3	10260.1	9986.9	9664.3	9303.9	8901.7	8442.5	7937.9	7391.5	6761.6	6059.7
27.5°	10719.2	10495.3	10229.7	9929.9	9584.7	9197.6	8734.7	8226.3	7668.5	7061.4	6359.4
25°	10912.7	10696.4	10449.8	10165.2	9823.7	9444.3	9007.9	8476.7	7918.9	7308.0	6613.6
22.5°	11087.2	10878.5	10631.9	10354.9	10043.8	9664.3	9224.2	8696.8	8131.4	7528.1	6845.1
20°	11242.8	11049.3	10806.4	10521.9	10210.7	9827.5	9391.1	8890.3	8321.1	7729.2	7053.8
17.5°	11368.0	11197.3	10954.4	10654.7	10343.5	9971.7	9546.7	9087.6	8484.3	7899.9	7228.3
15°	11455.3	11288.3	11068.3	10764.7	10461.2	10093.1	9668.1	9193.8	8632.3	8036.5	7372.5
12.5°	11516.0	11337.7	11132.8	10852.0	10548.4	10184.2	9770.6	9303.9	8757.5	8158.0	7497.7
10°	11531.2	11368.0	11163.1	10912.7	10616.7	10263.8	9857.8	9394.9	8859.9	8252.8	7600.2
7.5°	11538.8	11383.2	11197.3	10958.2	10666.1	10324.6	9922.4	9467.0	8935.8	8332.5	7676.1
5°	11535.0	11387.0	11220.0	10988.6	10696.4	10358.7	9964.1	9516.4	8988.9	8385.6	7733.0
2.5°	11523.6	11390.8	11235.2	11011.3	10730.6	10396.7	10005.8	9573.3	9045.8	8431.2	7778.5
0°	11553.9	11440.1	11242.8	11003.8	10738.1	10396.7	10002.0	9580.9	9053.4	8427.4	7774.7



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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°	94.9	91.1	91.1	87.3	83.5	79.7	72.1	68.3	60.7	49.3	37.9
85°	204.9	193.5	182.1	174.5	167.0	159.4	148.0	136.6	121.4	98.7	75.9
82.5°	360.5	337.7	314.9	288.4	265.6	242.8	223.9	204.9	182.1	148.0	113.8
80°	516.0	481.9	447.7	409.8	375.6	337.7	303.6	273.2	242.8	197.3	151.8
77.5°	671.6	626.1	576.7	531.2	481.9	432.6	383.2	341.5	296.0	242.8	189.7
75°	815.8	762.7	717.1	652.6	591.9	527.4	462.9	406.0	349.1	284.6	227.7
72.5°	960.0	891.7	827.2	766.5	698.2	618.5	546.4	474.3	402.2	326.3	258.0
70°	1104.2	1020.7	941.0	868.9	793.0	713.3	626.1	542.6	455.3	364.3	284.6
67.5°	1252.2	1157.3	1066.2	975.2	887.9	796.8	705.8	610.9	508.4	402.2	314.9
65°	1415.3	1297.7	1187.6	1085.2	982.7	884.1	781.6	679.2	565.4	443.9	341.5
62.5°	1578.5	1449.5	1320.5	1191.4	1077.6	967.6	857.5	743.7	618.5	489.5	368.1
60°	1753.0	1605.0	1457.0	1312.9	1172.5	1051.0	929.6	808.2	675.4	531.2	394.6
57.5°	1946.5	1768.2	1601.2	1438.1	1278.7	1134.5	1001.7	872.7	724.7	573.0	425.0
55°	2166.6	1946.5	1749.2	1567.1	1392.5	1218.0	1073.8	941.0	781.6	614.7	459.1
52.5°	2398.1	2143.8	1904.8	1699.9	1514.0	1316.7	1142.1	994.1	838.6	656.4	489.5
50°	2667.5	2344.9	2079.3	1828.9	1620.2	1415.3	1214.2	1054.8	895.5	705.8	519.8
47.5°	2944.5	2587.8	2253.9	1980.7	1734.0	1510.2	1297.7	1108.0	948.6	751.3	550.2
45°	3267.0	2819.2	2451.2	2128.7	1844.1	1608.8	1381.2	1164.9	994.1	796.8	580.5
42.5°	3578.1	3092.4	2656.1	2291.8	1969.3	1703.7	1457.0	1225.6	1039.7	842.4	607.1
40°	3946.2	3365.6	2853.4	2447.4	2094.5	1794.8	1532.9	1290.1	1081.4	884.1	633.7
37.5°	4299.1	3642.6	3092.4	2618.1	2215.9	1885.8	1608.8	1350.8	1119.3	925.8	667.8
35°	4648.1	3950.0	3320.1	2777.5	2341.1	1988.3	1684.7	1407.7	1157.3	960.0	698.2
32.5°	4982.0	4238.3	3551.6	2955.8	2477.7	2083.1	1753.0	1460.8	1195.2	990.3	728.5
30°	5293.2	4511.5	3779.2	3138.0	2603.0	2170.4	1817.5	1514.0	1240.8	1016.9	758.9
27.5°	5577.8	4777.1	4006.9	3308.7	2720.6	2250.1	1885.8	1563.3	1278.7	1043.5	785.4
25°	5835.8	5016.2	4215.6	3464.3	2826.8	2337.3	1950.3	1612.6	1312.9	1066.2	808.2
22.5°	6078.6	5236.3	4405.3	3619.9	2955.8	2424.6	2011.0	1658.2	1347.0	1089.0	831.0
20°	6291.1	5437.4	4587.4	3775.4	3069.7	2504.3	2064.2	1699.9	1377.4	1104.2	853.7
17.5°	6461.9	5615.7	4750.6	3912.0	3168.3	2572.6	2109.7	1737.8	1403.9	1123.1	868.9
15°	6613.6	5767.5	4887.2	4029.7	3255.6	2629.5	2151.4	1768.2	1426.7	1134.5	887.9
12.5°	6742.6	5896.5	5004.8	4132.1	3331.5	2678.8	2185.6	1791.0	1445.7	1145.9	899.3
10°	6848.9	5998.9	5103.5	4211.8	3392.2	2716.8	2212.1	1813.7	1460.8	1157.3	910.7
7.5°	6928.6	6074.8	5175.6	4280.1	3441.5	2743.4	2234.9	1828.9	1476.0	1164.9	929.6
5°	6989.3	6139.3	5232.5	4325.6	3479.5	2781.3	2261.5	1847.9	1491.2	1172.5	929.6
2.5°	7034.8	6192.5	5278.0	4363.6	3509.8	2773.7	2261.5	1844.1	1491.2	1172.5	925.8
0°	7027.2	6196.3	5274.2	4363.6	3509.8	2766.1	2261.5	1840.3	1491.2	1172.5	925.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.6	19.0	7.6	0.0
85°	56.9	37.9	19.0	0.0
82.5°	83.5	53.1	26.6	0.0
80°	110.0	72.1	34.1	0.0
77.5°	140.4	91.1	45.5	0.0
75°	167.0	106.2	53.1	0.0
72.5°	193.5	125.2	60.7	0.0
70°	216.3	140.4	68.3	0.0
67.5°	239.0	159.4	79.7	0.0
65°	258.0	174.5	87.3	0.0
62.5°	273.2	193.5	94.9	0.0
60°	292.2	208.7	102.4	0.0
57.5°	307.3	220.1	110.0	0.0
55°	322.5	227.7	117.6	0.0
52.5°	337.7	239.0	125.2	0.0
50°	352.9	250.4	132.8	0.0
47.5°	368.1	258.0	136.6	0.0
45°	390.8	269.4	144.2	0.0
42.5°	409.8	277.0	151.8	0.0
40°	428.8	284.6	155.6	0.0
37.5°	447.7	292.2	163.2	0.0
35°	466.7	299.8	167.0	0.0
32.5°	481.9	307.3	170.7	0.0
30°	497.1	314.9	174.5	0.0
27.5°	512.2	318.7	178.3	0.0
25°	523.6	326.3	182.1	0.0
22.5°	535.0	330.1	185.9	0.0
20°	542.6	333.9	189.7	0.0
17.5°	554.0	337.7	193.5	0.0
15°	557.8	341.5	201.1	0.0
12.5°	565.4	345.3	201.1	0.0
10°	569.2	349.1	201.1	0.0
7.5°	576.7	349.1	201.1	0.0
5°	573.0	349.1	201.1	0.0
2.5°	573.0	349.1	201.1	0.0
0°	569.2	349.1	201.1	0.0

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