

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: P628291

Luminaire Tested: **IFLD-L-SA8A-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628291
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

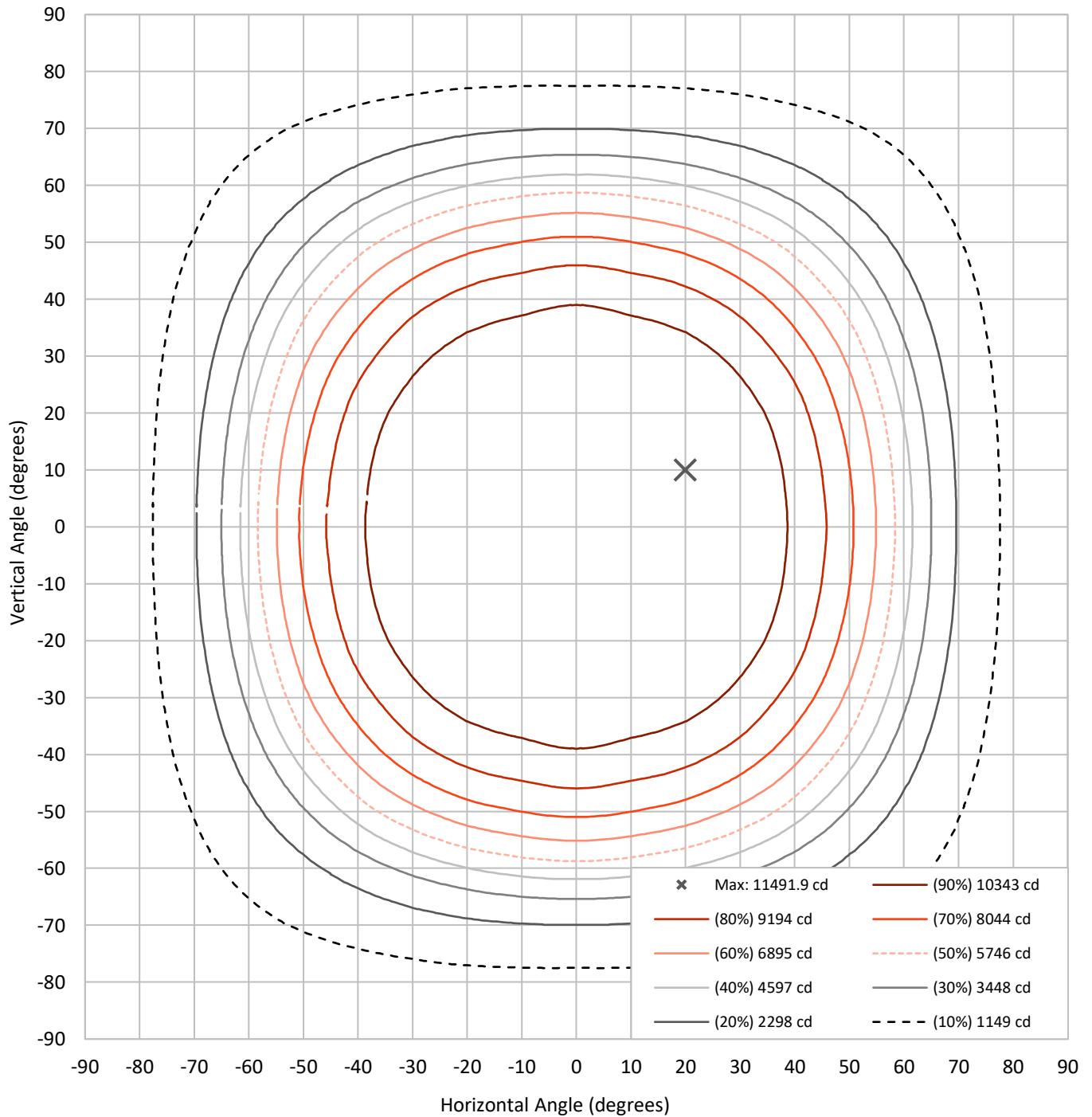
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35255.5 lumens	Max Intensity:	11491.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	142.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21633.5 lumens	Field Lumens:	25934.9 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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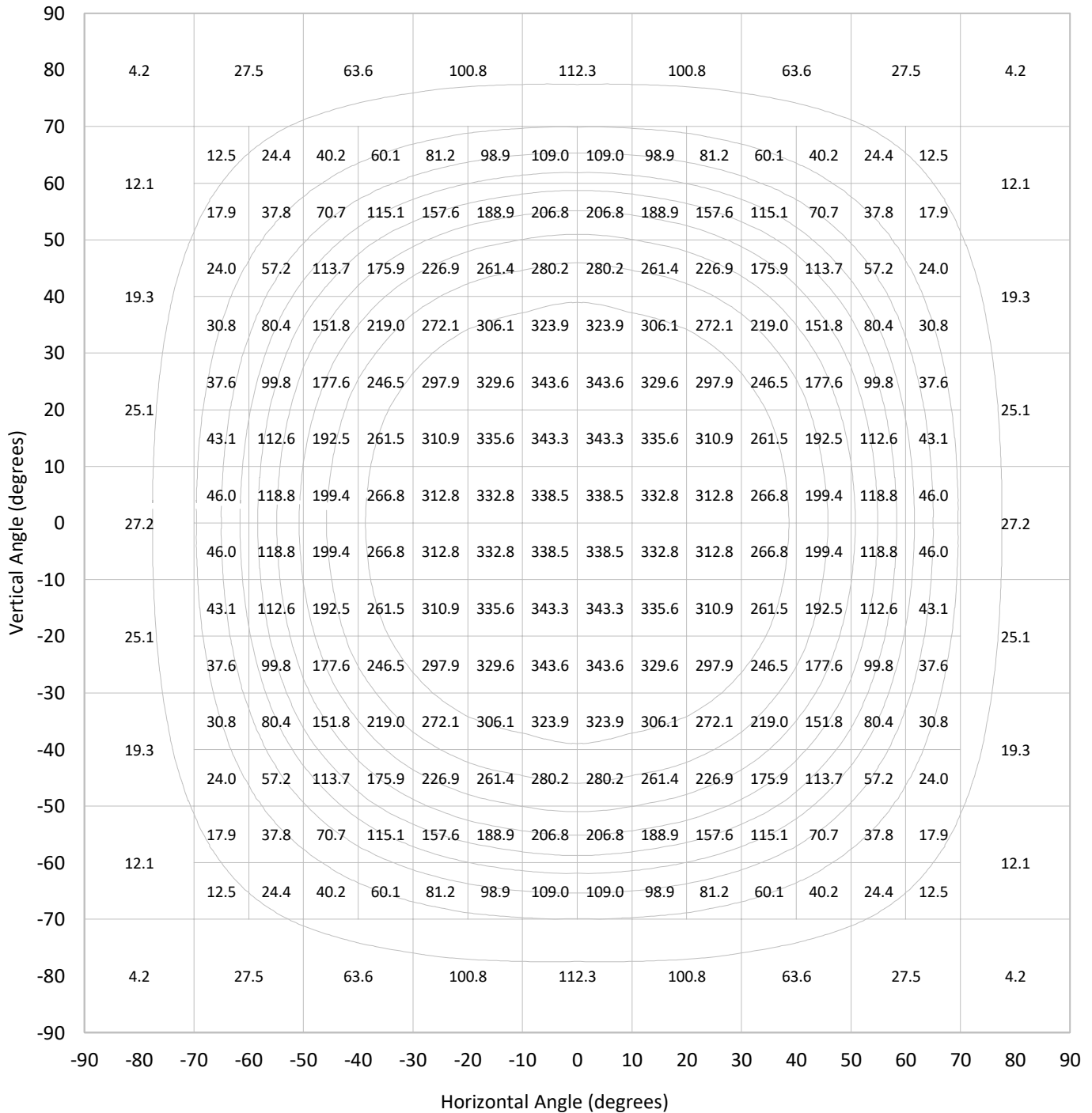
Iso-Candela Plot





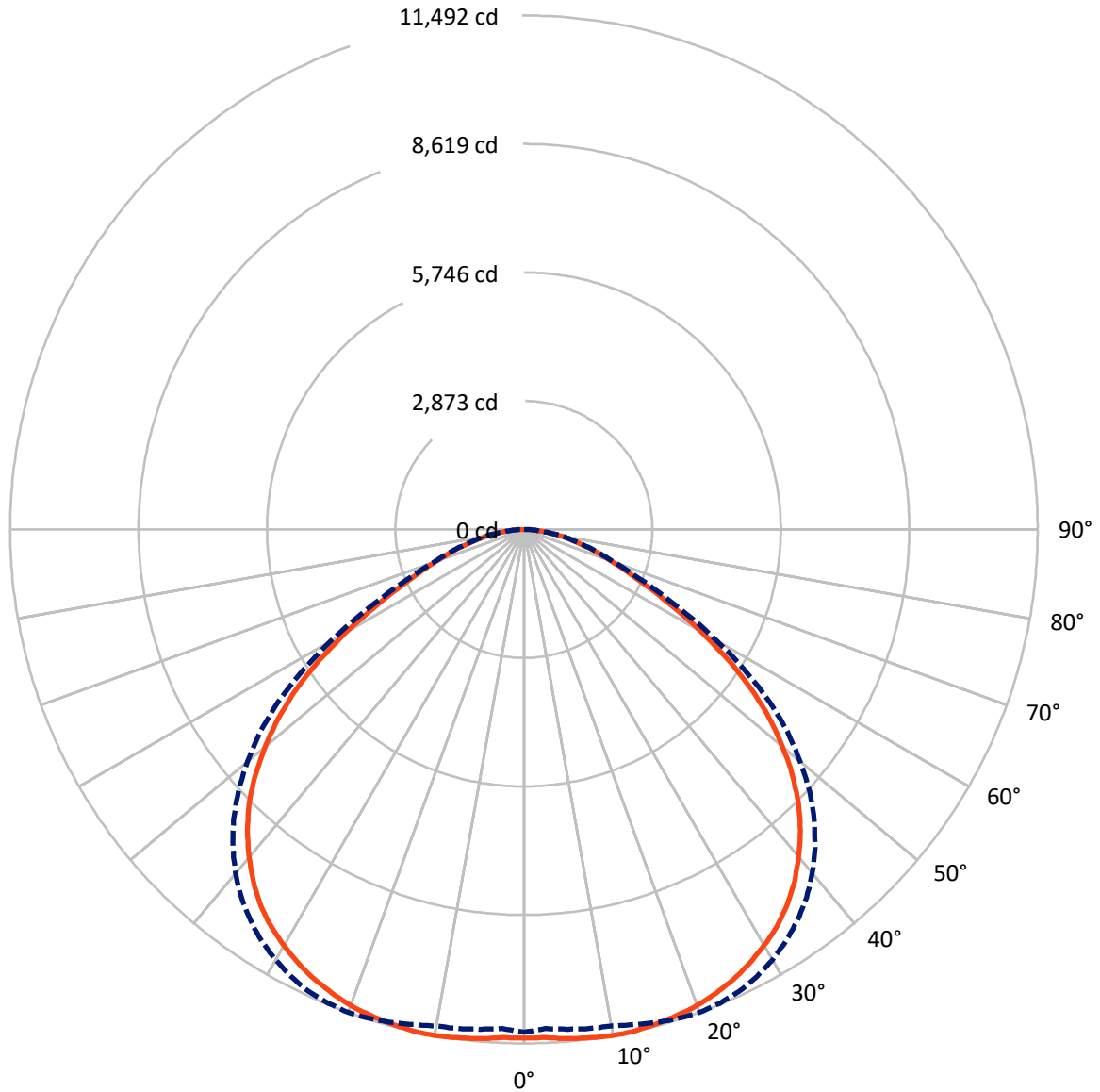
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Lumen Table



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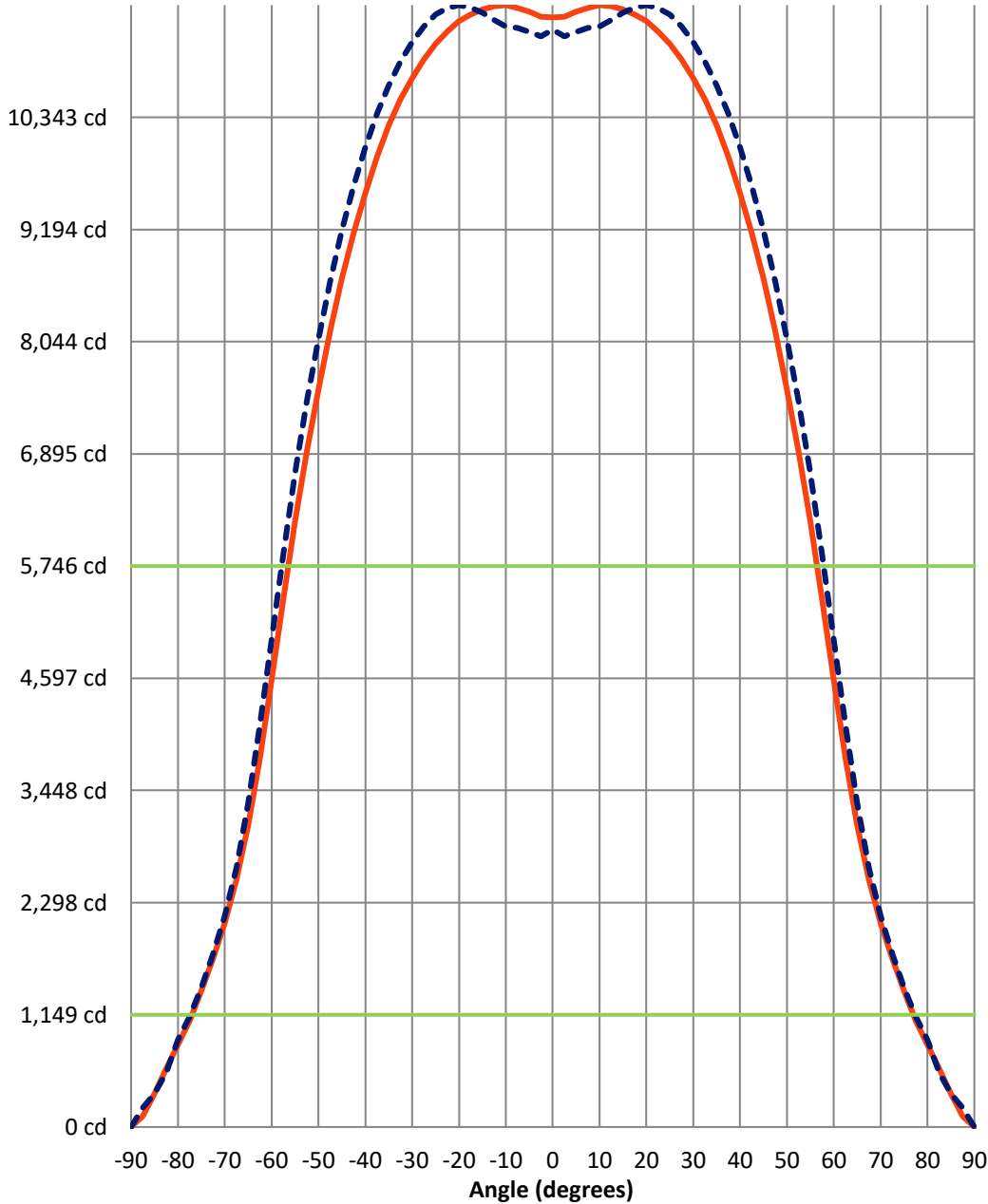
Luminous Intensity Polar Plot



— 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: 21633.5
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 25934.9
Efficiency: 73.6%

Spill:
Lumens: 9320.6
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°	92.7	100.2	103.9	107.6	111.3	115.0	118.7	115.0	111.3	111.3	107.6
85°	248.5	256.0	259.7	285.6	311.6	326.4	345.0	341.3	341.3	337.6	333.9
82.5°	497.1	519.3	537.9	563.8	578.7	600.9	615.8	604.6	597.2	582.4	571.3
80°	882.8	890.3	894.0	897.7	879.1	875.4	868.0	856.9	842.0	823.5	805.0
77.5°	1124.0	1131.4	1138.8	1131.4	1127.7	1124.0	1112.8	1101.7	1086.9	1072.0	1049.8
75°	1487.5	1487.5	1487.5	1476.4	1468.9	1457.8	1439.3	1420.7	1394.8	1365.1	1331.7
72.5°	1873.3	1869.6	1865.9	1843.6	1825.1	1802.8	1776.8	1754.6	1724.9	1691.5	1647.0
70°	2277.6	2285.0	2288.7	2259.1	2236.8	2207.1	2173.7	2132.9	2088.4	2040.2	1977.1
67.5°	2834.0	2826.6	2819.2	2778.4	2748.7	2707.9	2659.7	2600.3	2533.6	2459.4	2370.3
65°	3524.0	3535.1	3512.9	3472.0	3416.4	3349.6	3275.4	3190.1	3090.0	2978.7	2852.6
62.5°	4358.6	4377.2	4351.2	4299.3	4228.8	4139.7	4035.9	3913.5	3776.2	3620.4	3464.6
60°	5308.2	5304.5	5256.3	5185.8	5093.1	4981.8	4866.8	4733.3	4577.5	4395.7	4206.5
57.5°	6179.9	6172.5	6113.2	6042.7	5950.0	5831.3	5708.8	5567.9	5404.7	5211.8	4992.9
55°	6962.6	6955.2	6895.9	6821.7	6725.2	6606.5	6495.3	6361.7	6202.2	5998.2	5764.5
52.5°	7656.3	7660.0	7608.1	7526.5	7422.6	7307.6	7200.0	7066.5	6914.4	6710.4	6484.1
50°	8294.3	8290.6	8235.0	8160.8	8064.3	7953.1	7845.5	7712.0	7552.4	7355.8	7137.0
47.5°	8887.8	8880.4	8817.4	8735.8	8635.6	8539.2	8439.0	8320.3	8153.4	7956.8	7737.9
45°	9384.9	9370.1	9307.0	9229.1	9132.7	9047.4	8958.3	8869.3	8691.2	8509.5	8301.8
42.5°	9811.5	9807.8	9744.7	9666.8	9570.4	9496.2	9414.6	9303.3	9154.9	8988.0	8784.0
40°	10219.5	10189.9	10126.8	10052.6	9963.6	9900.5	9818.9	9707.6	9563.0	9399.8	9203.2
37.5°	10523.7	10527.4	10460.7	10379.0	10301.1	10241.8	10167.6	10063.7	9937.6	9778.1	9581.5
35°	10813.1	10794.5	10738.9	10668.4	10597.9	10531.1	10453.2	10364.2	10260.3	10112.0	9926.5
32.5°	11002.2	11028.2	10961.4	10887.2	10846.4	10794.5	10712.9	10620.2	10527.4	10379.0	10212.1
30°	11210.0	11187.7	11135.8	11072.7	11043.0	11009.7	10939.2	10850.1	10742.6	10609.0	10453.2
27.5°	11354.6	11343.5	11280.4	11221.1	11206.3	11176.6	11120.9	11043.0	10935.5	10805.6	10661.0
25°	11417.7	11425.1	11365.8	11332.4	11332.4	11313.8	11269.3	11202.5	11095.0	10976.3	10835.3
22.5°	11447.4	11440.0	11399.1	11391.7	11410.3	11395.4	11376.9	11317.5	11221.1	11124.6	11005.9
20°	11465.9	11414.0	11376.9	11406.6	11428.8	11425.1	11410.3	11373.2	11328.7	11247.1	11143.2
17.5°	11425.1	11391.7	11347.2	11391.7	11440.0	11443.7	11428.8	11406.6	11395.4	11343.5	11250.8
15°	11325.0	11299.0	11306.4	11350.9	11406.6	11425.1	11436.2	11462.2	11447.4	11406.6	11325.0
12.5°	11258.2	11224.8	11258.2	11302.7	11332.4	11343.5	11432.5	11480.8	11480.8	11443.7	11391.7
10°	11239.6	11172.9	11217.4	11258.2	11273.0	11339.8	11414.0	11465.9	11491.9	11462.2	11395.4
7.5°	11202.5	11158.0	11176.6	11195.1	11280.4	11328.7	11369.5	11425.1	11462.2	11458.5	11399.1
5°	11184.0	11128.4	11135.8	11213.7	11273.0	11306.4	11321.2	11369.5	11425.1	11436.2	11391.7
2.5°	11135.8	11109.8	11165.5	11172.9	11217.4	11243.3	11258.2	11302.7	11373.2	11399.1	11380.6
0°	11109.8	11072.7	11035.6	11065.3	11139.5	11195.1	11217.4	11284.2	11365.8	11391.7	11350.9



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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°	103.9	100.2	96.4	92.7	96.4	96.4	96.4	92.7	96.4	92.7	92.7
85°	322.7	307.9	296.8	281.9	267.1	256.0	241.1	226.3	222.6	218.9	211.4
82.5°	556.4	537.9	519.3	497.1	474.8	448.8	422.9	393.2	385.8	378.4	367.2
80°	782.7	756.7	730.8	704.8	682.5	656.6	626.9	593.5	571.3	552.7	530.5
77.5°	1020.1	983.0	945.9	901.4	875.4	849.5	819.8	786.4	753.0	723.3	690.0
75°	1290.9	1250.1	1213.0	1168.5	1120.3	1072.0	1023.8	979.3	931.1	886.6	842.0
72.5°	1591.4	1532.0	1472.7	1417.0	1357.7	1298.3	1235.2	1175.9	1116.5	1057.2	994.1
70°	1906.7	1832.5	1758.3	1684.1	1606.2	1528.3	1454.1	1379.9	1305.7	1227.8	1157.3
67.5°	2277.6	2192.3	2095.8	1992.0	1877.0	1776.8	1680.4	1591.4	1502.3	1413.3	1324.3
65°	2741.3	2622.6	2492.8	2351.8	2218.3	2084.7	1943.8	1810.2	1706.3	1602.5	1502.3
62.5°	3312.5	3145.6	2963.9	2782.1	2618.9	2444.5	2281.3	2107.0	1943.8	1795.4	1673.0
60°	3995.1	3768.8	3546.2	3312.5	3086.3	2848.9	2641.1	2426.0	2222.0	2040.2	1862.1
57.5°	4748.1	4484.7	4217.6	3932.0	3624.1	3345.9	3064.0	2782.1	2541.0	2299.9	2099.5
55°	5512.2	5234.0	4933.6	4610.8	4273.3	3917.2	3535.1	3219.8	2889.7	2607.7	2348.1
52.5°	6239.3	5950.0	5638.4	5341.6	4937.3	4529.2	4110.1	3694.6	3308.8	2949.0	2633.7
50°	6888.5	6606.5	6306.1	5961.1	5586.4	5152.4	4685.0	4217.6	3761.4	3338.5	2945.3
47.5°	7482.0	7207.5	6907.0	6562.0	6220.8	5738.5	5267.4	4751.8	4243.6	3757.7	3297.7
45°	8038.4	7760.2	7448.6	7118.4	6725.2	6294.9	5809.0	5289.7	4744.4	4199.1	3668.6
42.5°	8542.9	8264.7	7949.4	7608.1	7218.6	6792.0	6320.9	5797.9	5248.9	4655.4	4073.0
40°	8984.3	8713.5	8409.3	8053.2	7689.7	7240.9	6777.2	6280.1	5712.6	5115.3	4473.6
37.5°	9370.1	9117.8	8817.4	8465.0	8079.2	7678.6	7200.0	6703.0	6191.1	5541.9	4885.3
35°	9711.3	9477.6	9169.8	8835.9	8457.6	8034.7	7585.8	7099.9	6547.2	5938.8	5300.8
32.5°	10008.1	9770.7	9488.8	9154.9	8787.7	8390.8	7930.8	7441.2	6918.1	6298.6	5605.0
30°	10260.3	10030.4	9763.3	9448.0	9095.6	8702.4	8253.5	7760.2	7226.0	6610.2	5924.0
27.5°	10479.2	10260.3	10000.7	9707.6	9370.1	8991.7	8539.2	8042.1	7496.8	6903.3	6217.0
25°	10668.4	10456.9	10215.8	9937.6	9603.8	9232.8	8806.2	8286.9	7741.6	7144.4	6465.6
22.5°	10839.0	10635.0	10393.9	10123.1	9818.9	9448.0	9017.7	8502.1	7949.4	7359.6	6691.9
20°	10991.1	10801.9	10564.5	10286.3	9982.1	9607.5	9180.9	8691.2	8134.8	7556.2	6895.9
17.5°	11113.5	10946.6	10709.2	10416.1	10112.0	9748.4	9333.0	8884.1	8294.3	7723.1	7066.5
15°	11198.8	11035.6	10820.5	10523.7	10227.0	9867.1	9451.7	8988.0	8439.0	7856.6	7207.5
12.5°	11258.2	11083.8	10883.5	10609.0	10312.3	9956.2	9551.8	9095.6	8561.4	7975.3	7329.9
10°	11273.0	11113.5	10913.2	10668.4	10379.0	10034.1	9637.2	9184.6	8661.6	8068.1	7430.0
7.5°	11280.4	11128.4	10946.6	10712.9	10427.3	10093.4	9700.2	9255.1	8735.8	8146.0	7504.2
5°	11276.7	11132.1	10968.8	10742.6	10456.9	10126.8	9741.0	9303.3	8787.7	8197.9	7559.9
2.5°	11265.6	11135.8	10983.7	10764.8	10490.3	10163.9	9781.8	9358.9	8843.3	8242.4	7604.4
0°	11295.3	11184.0	10991.1	10757.4	10497.7	10163.9	9778.1	9366.4	8850.8	8238.7	7600.7



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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°	92.7	89.0	89.0	85.3	81.6	77.9	70.5	66.8	59.4	48.2	37.1
85°	200.3	189.2	178.1	170.6	163.2	155.8	144.7	133.5	118.7	96.4	74.2
82.5°	352.4	330.1	307.9	281.9	259.7	237.4	218.9	200.3	178.1	144.7	111.3
80°	504.5	471.1	437.7	400.6	367.2	330.1	296.8	267.1	237.4	192.9	148.4
77.5°	656.6	612.1	563.8	519.3	471.1	422.9	374.7	333.9	289.3	237.4	185.5
75°	797.5	745.6	701.1	638.0	578.7	515.6	452.6	396.9	341.3	278.2	222.6
72.5°	938.5	871.7	808.7	749.3	682.5	604.6	534.2	463.7	393.2	319.0	252.2
70°	1079.5	997.8	919.9	849.5	775.3	697.4	612.1	530.5	445.1	356.1	278.2
67.5°	1224.1	1131.4	1042.4	953.3	868.0	779.0	690.0	597.2	497.1	393.2	307.9
65°	1383.6	1268.6	1161.1	1060.9	960.7	864.3	764.1	664.0	552.7	434.0	333.9
62.5°	1543.1	1417.0	1290.9	1164.8	1053.5	945.9	838.3	727.1	604.6	478.5	359.8
60°	1713.8	1569.1	1424.4	1283.5	1146.2	1027.5	908.8	790.1	660.3	519.3	385.8
57.5°	1902.9	1728.6	1565.4	1405.9	1250.1	1109.1	979.3	853.2	708.5	560.1	415.5
55°	2118.1	1902.9	1710.1	1532.0	1361.4	1190.7	1049.8	919.9	764.1	600.9	448.8
52.5°	2344.4	2095.8	1862.1	1661.8	1480.1	1287.2	1116.5	971.9	819.8	641.7	478.5
50°	2607.7	2292.4	2032.8	1788.0	1583.9	1383.6	1187.0	1031.2	875.4	690.0	508.2
47.5°	2878.5	2529.8	2203.4	1936.3	1695.2	1476.4	1268.6	1083.2	927.4	734.5	537.9
45°	3193.8	2756.1	2396.3	2081.0	1802.8	1572.8	1350.2	1138.8	971.9	779.0	567.5
42.5°	3498.0	3023.2	2596.6	2240.5	1925.2	1665.5	1424.4	1198.2	1016.4	823.5	593.5
40°	3857.8	3290.3	2789.5	2392.6	2047.6	1754.6	1498.6	1261.2	1057.2	864.3	619.5
37.5°	4202.8	3561.1	3023.2	2559.5	2166.3	1843.6	1572.8	1320.6	1094.3	905.1	652.9
35°	4544.1	3861.5	3245.8	2715.3	2288.7	1943.8	1647.0	1376.2	1131.4	938.5	682.5
32.5°	4870.5	4143.5	3472.0	2889.7	2422.3	2036.5	1713.8	1428.1	1168.5	968.2	712.2
30°	5174.7	4410.5	3694.6	3067.7	2544.7	2121.8	1776.8	1480.1	1213.0	994.1	741.9
27.5°	5452.9	4670.2	3917.2	3234.6	2659.7	2199.7	1843.6	1528.3	1250.1	1020.1	767.9
25°	5705.1	4903.9	4121.2	3386.7	2763.5	2285.0	1906.7	1576.5	1283.5	1042.4	790.1
22.5°	5942.5	5119.0	4306.7	3538.8	2889.7	2370.3	1966.0	1621.0	1316.9	1064.6	812.4
20°	6150.3	5315.6	4484.7	3690.9	3000.9	2448.2	2017.9	1661.8	1346.5	1079.5	834.6
17.5°	6317.2	5490.0	4644.2	3824.4	3097.4	2515.0	2062.5	1698.9	1372.5	1098.0	849.5
15°	6465.6	5638.4	4777.8	3939.4	3182.7	2570.7	2103.3	1728.6	1394.8	1109.1	868.0
12.5°	6591.7	5764.5	4892.8	4039.6	3256.9	2618.9	2136.6	1750.9	1413.3	1120.3	879.1
10°	6695.6	5864.6	4989.2	4117.5	3316.3	2656.0	2162.6	1773.1	1428.1	1131.4	890.3
7.5°	6773.5	5938.8	5059.7	4184.3	3364.5	2681.9	2184.9	1788.0	1443.0	1138.8	908.8
5°	6832.8	6001.9	5115.3	4228.8	3401.6	2719.0	2210.8	1806.5	1457.8	1146.2	908.8
2.5°	6877.3	6053.8	5159.8	4265.9	3431.2	2711.6	2210.8	1802.8	1457.8	1146.2	905.1
0°	6869.9	6057.5	5156.1	4265.9	3431.2	2704.2	2210.8	1799.1	1457.8	1146.2	905.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.0	18.5	7.4	0.0
85°	55.6	37.1	18.5	0.0
82.5°	81.6	51.9	26.0	0.0
80°	107.6	70.5	33.4	0.0
77.5°	137.2	89.0	44.5	0.0
75°	163.2	103.9	51.9	0.0
72.5°	189.2	122.4	59.4	0.0
70°	211.4	137.2	66.8	0.0
67.5°	233.7	155.8	77.9	0.0
65°	252.2	170.6	85.3	0.0
62.5°	267.1	189.2	92.7	0.0
60°	285.6	204.0	100.2	0.0
57.5°	300.5	215.1	107.6	0.0
55°	315.3	222.6	115.0	0.0
52.5°	330.1	233.7	122.4	0.0
50°	345.0	244.8	129.8	0.0
47.5°	359.8	252.2	133.5	0.0
45°	382.1	263.4	141.0	0.0
42.5°	400.6	270.8	148.4	0.0
40°	419.2	278.2	152.1	0.0
37.5°	437.7	285.6	159.5	0.0
35°	456.3	293.0	163.2	0.0
32.5°	471.1	300.5	166.9	0.0
30°	485.9	307.9	170.6	0.0
27.5°	500.8	311.6	174.3	0.0
25°	511.9	319.0	178.1	0.0
22.5°	523.0	322.7	181.8	0.0
20°	530.5	326.4	185.5	0.0
17.5°	541.6	330.1	189.2	0.0
15°	545.3	333.9	196.6	0.0
12.5°	552.7	337.6	196.6	0.0
10°	556.4	341.3	196.6	0.0
7.5°	563.8	341.3	196.6	0.0
5°	560.1	341.3	196.6	0.0
2.5°	560.1	341.3	196.6	0.0
0°	556.4	341.3	196.6	0.0

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