

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: P628462

Luminaire Tested: **IFLD-L-SA7C-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

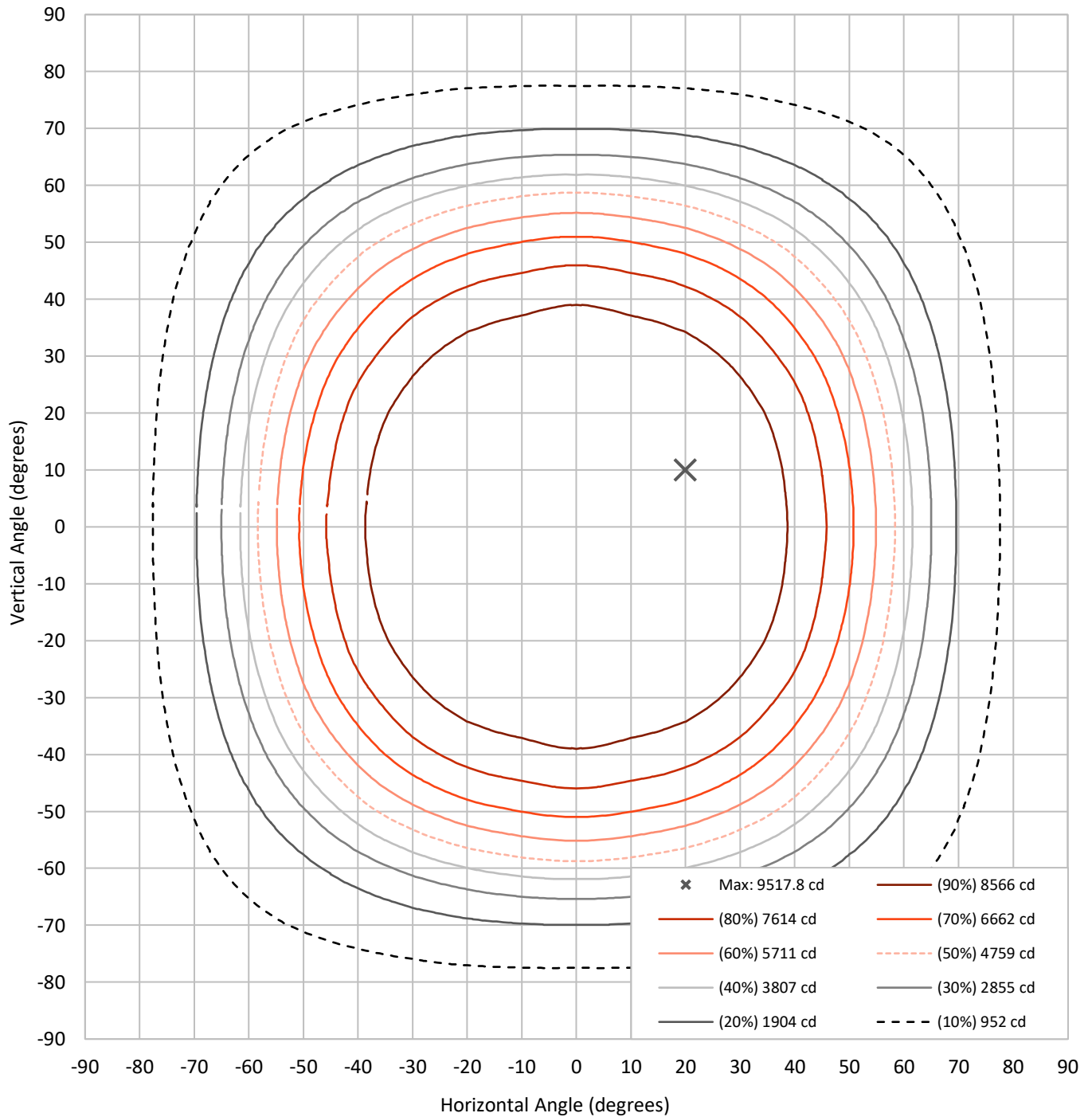
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29199.4 lumens	Max Intensity:	9517.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	79.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17917.3 lumens	Field Lumens:	21479.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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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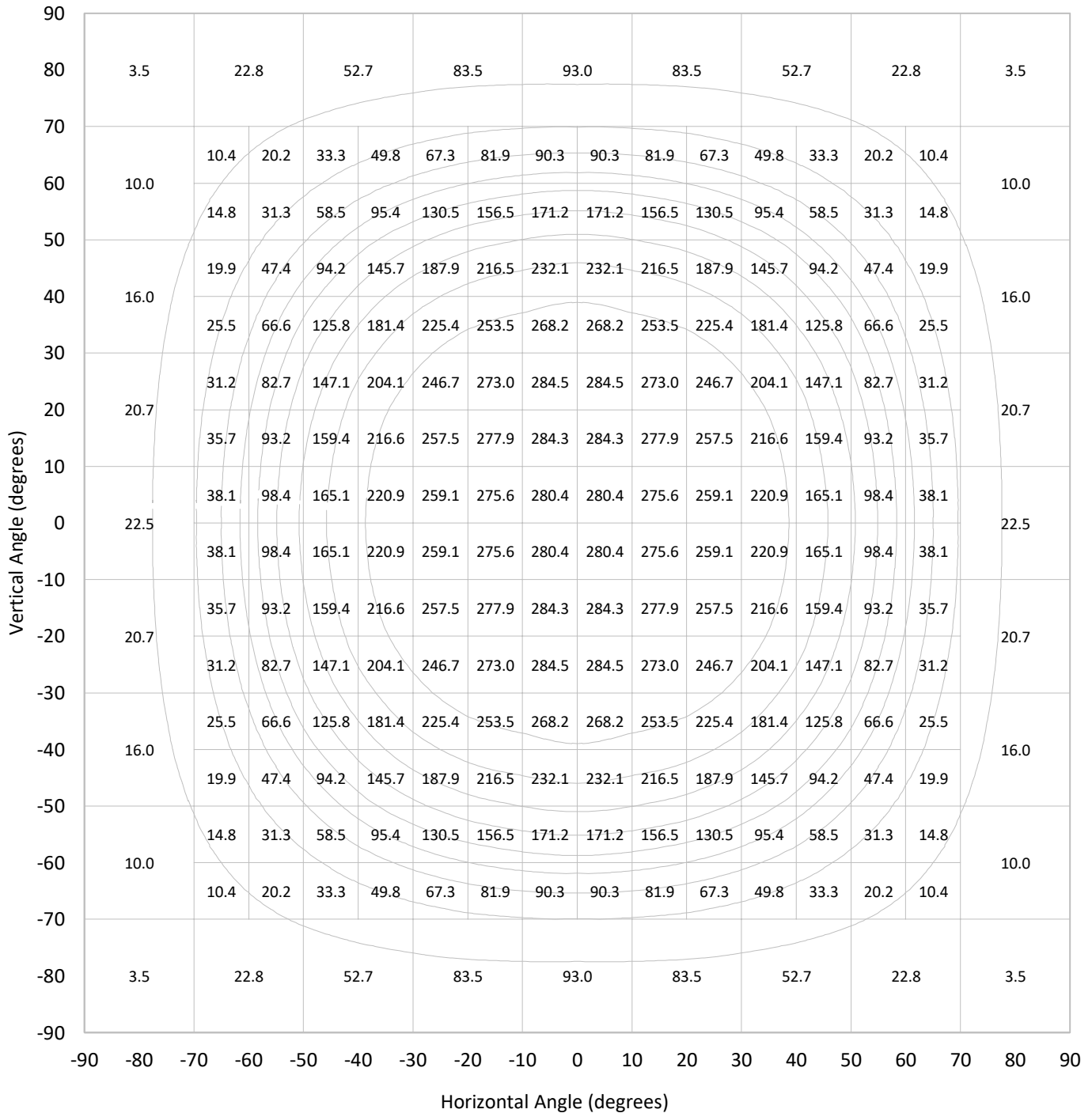
Iso-Candela Plot





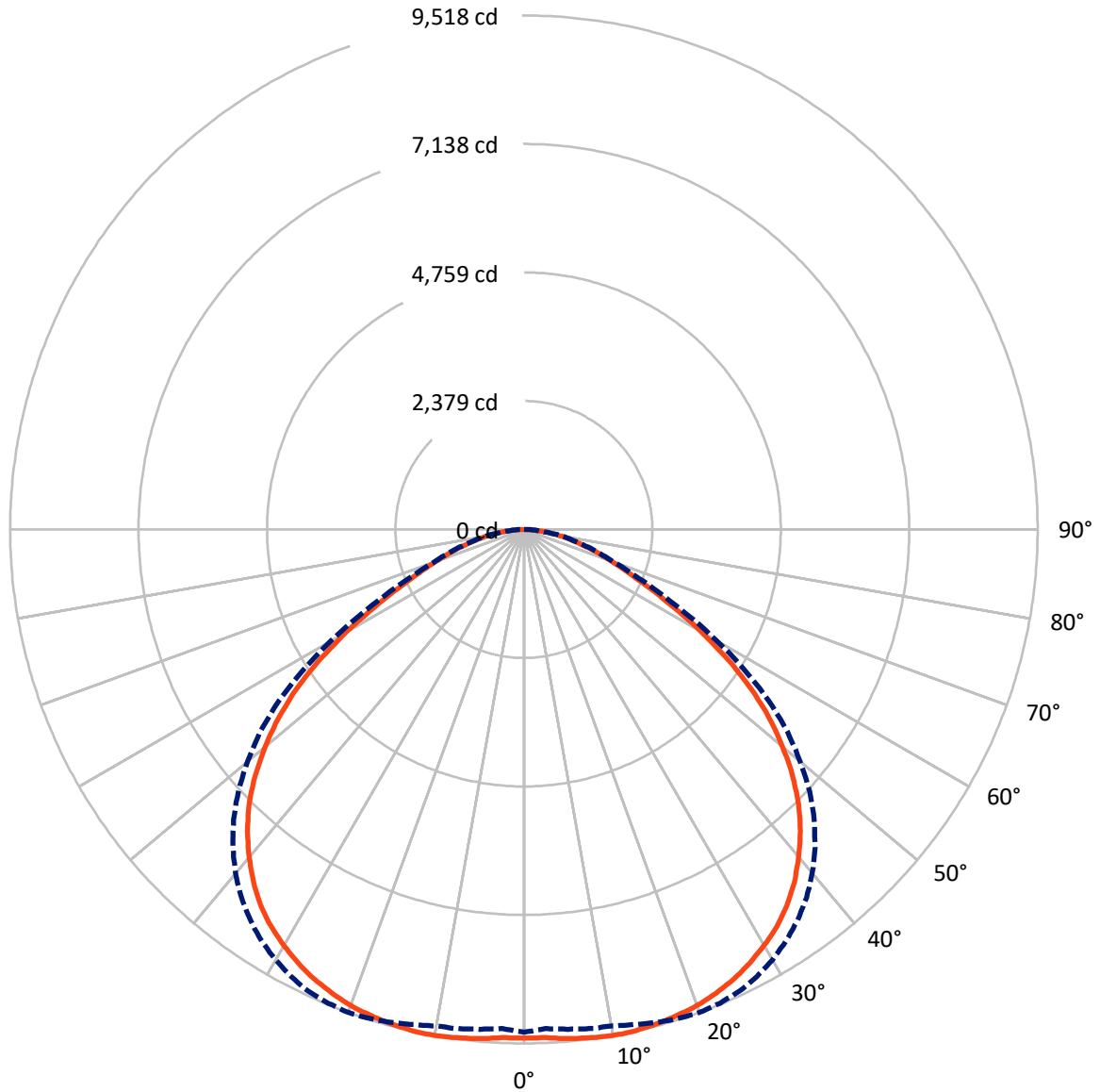
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Lumen Table



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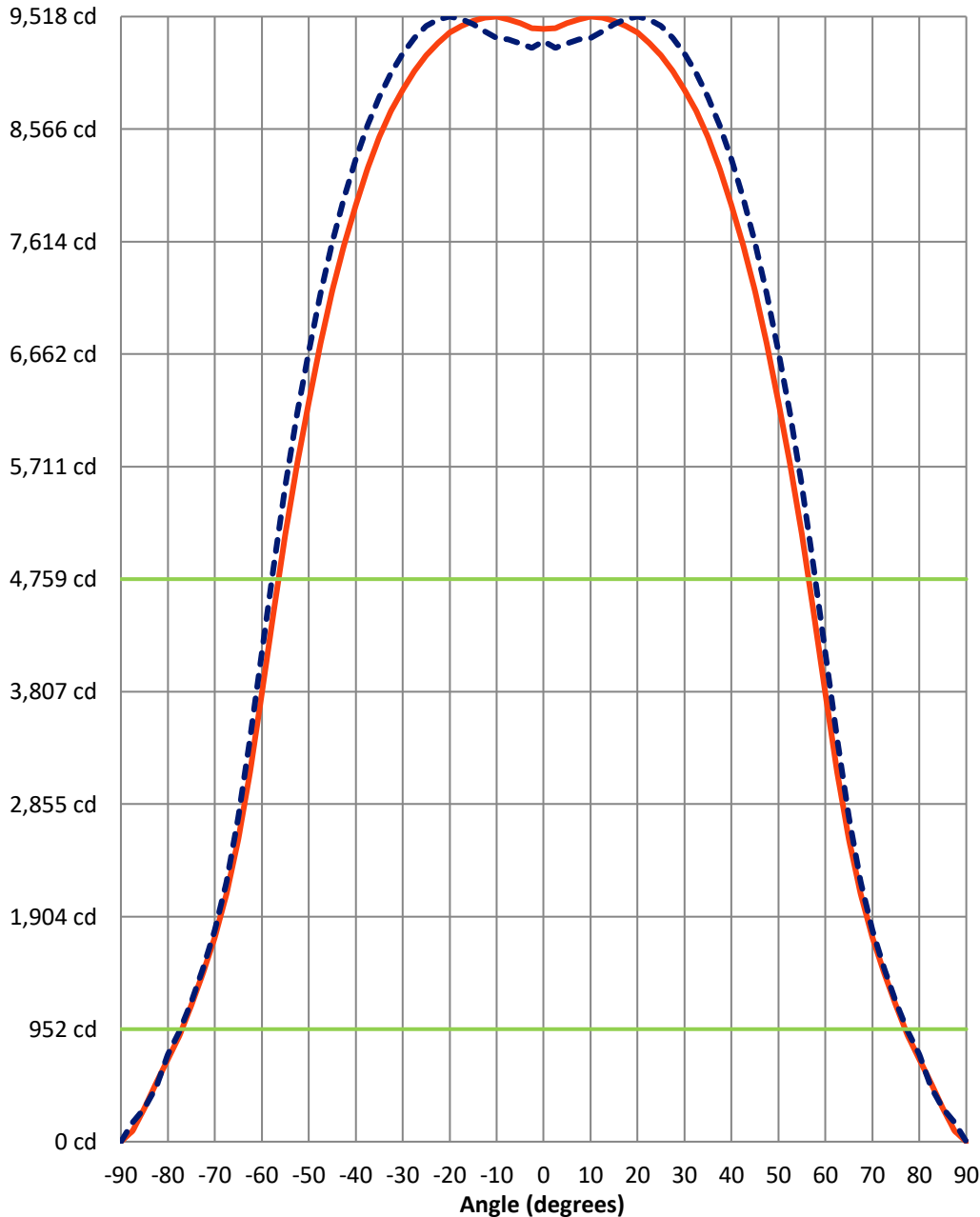
Luminous Intensity Polar Plot



— 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: 17917.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 21479.8
 Efficiency: 73.6%

Spill:
 Lumens: 7719.5
 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°	76.8	83.0	86.0	89.1	92.2	95.2	98.3	95.2	92.2	92.2	89.1
85°	205.8	212.0	215.1	236.6	258.1	270.4	285.7	282.6	282.6	279.6	276.5
82.5°	411.7	430.1	445.5	467.0	479.3	497.7	510.0	500.8	494.6	482.3	473.1
80°	731.2	737.3	740.4	743.5	728.1	725.1	718.9	709.7	697.4	682.0	666.7
77.5°	930.9	937.0	943.2	937.0	934.0	930.9	921.7	912.5	900.2	887.9	869.4
75°	1232.0	1232.0	1232.0	1222.8	1216.6	1207.4	1192.0	1176.7	1155.2	1130.6	1102.9
72.5°	1551.5	1548.4	1545.3	1526.9	1511.5	1493.1	1471.6	1453.2	1428.6	1400.9	1364.1
70°	1886.4	1892.5	1895.6	1871.0	1852.6	1828.0	1800.3	1766.5	1729.7	1689.7	1637.5
67.5°	2347.2	2341.1	2334.9	2301.1	2276.5	2242.7	2202.8	2153.6	2098.3	2036.9	1963.2
65°	2918.6	2927.9	2909.4	2875.6	2829.5	2774.2	2712.8	2642.1	2559.2	2467.0	2362.6
62.5°	3609.9	3625.3	3603.7	3560.7	3502.4	3428.6	3342.6	3241.2	3127.5	2998.5	2869.5
60°	4396.4	4393.3	4353.4	4295.0	4218.2	4126.0	4030.8	3920.2	3791.2	3640.6	3483.9
57.5°	5118.4	5112.2	5063.1	5004.7	4927.9	4829.6	4728.2	4611.4	4476.3	4316.5	4135.2
55°	5766.6	5760.5	5711.3	5649.9	5570.0	5471.7	5379.5	5268.9	5136.8	4967.8	4774.3
52.5°	6341.1	6344.2	6301.2	6233.6	6147.6	6052.3	5963.2	5852.6	5726.7	5557.7	5370.3
50°	6869.5	6866.5	6820.4	6758.9	6679.1	6586.9	6497.8	6387.2	6255.1	6092.3	5911.0
47.5°	7361.1	7355.0	7302.7	7235.1	7152.2	7072.3	6989.4	6891.1	6752.8	6590.0	6408.7
45°	7772.8	7760.5	7708.3	7643.8	7563.9	7493.2	7419.5	7345.7	7198.3	7047.7	6875.7
42.5°	8126.1	8123.0	8070.8	8006.3	7926.4	7865.0	7797.4	7705.2	7582.3	7444.1	7275.1
40°	8464.0	8439.5	8387.2	8325.8	8252.1	8199.8	8132.2	8040.1	7920.3	7785.1	7622.2
37.5°	8716.0	8719.0	8663.7	8596.1	8531.6	8482.5	8421.0	8335.0	8230.6	8098.4	7935.6
35°	8955.6	8940.2	8894.2	8835.8	8777.4	8722.1	8657.6	8583.9	8497.8	8374.9	8221.3
32.5°	9112.3	9133.8	9078.5	9017.0	8983.3	8940.2	8872.7	8795.8	8719.0	8596.1	8457.9
30°	9284.3	9265.9	9222.9	9170.7	9146.1	9118.4	9060.1	8986.3	8897.2	8786.6	8657.6
27.5°	9404.1	9394.9	9342.7	9293.5	9281.3	9256.7	9210.6	9146.1	9057.0	8949.5	8829.6
25°	9456.4	9462.5	9413.4	9385.7	9385.7	9370.4	9333.5	9278.2	9189.1	9090.8	8974.0
22.5°	9481.0	9474.8	9441.0	9434.9	9450.2	9437.9	9422.6	9373.4	9293.5	9213.7	9115.4
20°	9496.3	9453.3	9422.6	9447.2	9465.6	9462.5	9450.2	9419.5	9382.6	9315.1	9229.0
17.5°	9462.5	9434.9	9398.0	9434.9	9474.8	9477.9	9465.6	9447.2	9437.9	9394.9	9318.1
15°	9379.6	9358.1	9364.2	9401.1	9447.2	9462.5	9471.7	9493.2	9481.0	9447.2	9379.6
12.5°	9324.3	9296.6	9324.3	9361.1	9385.7	9394.9	9468.7	9508.6	9508.6	9477.9	9434.9
10°	9308.9	9253.6	9290.5	9324.3	9336.6	9391.9	9453.3	9496.3	9517.8	9493.2	9437.9
7.5°	9278.2	9241.3	9256.7	9272.0	9342.7	9382.6	9416.4	9462.5	9493.2	9490.2	9441.0
5°	9262.8	9216.7	9222.9	9287.4	9336.6	9364.2	9376.5	9416.4	9462.5	9471.7	9434.9
2.5°	9222.9	9201.4	9247.5	9253.6	9290.5	9312.0	9324.3	9361.1	9419.5	9441.0	9425.7
0°	9201.4	9170.7	9139.9	9164.5	9226.0	9272.0	9290.5	9345.8	9413.4	9434.9	9401.1



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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°	86.0	83.0	79.9	76.8	79.9	79.9	79.9	76.8	79.9	76.8	76.8
85°	267.3	255.0	245.8	233.5	221.2	212.0	199.7	187.4	184.3	181.3	175.1
82.5°	460.8	445.5	430.1	411.7	393.2	371.7	350.2	325.7	319.5	313.4	304.2
80°	648.2	626.7	605.2	583.7	565.3	543.8	519.2	491.6	473.1	457.8	439.3
77.5°	844.9	814.1	783.4	746.6	725.1	703.5	679.0	651.3	623.7	599.1	571.4
75°	1069.1	1035.3	1004.6	967.8	927.8	887.9	847.9	811.1	771.1	734.3	697.4
72.5°	1318.0	1268.8	1219.7	1173.6	1124.4	1075.3	1023.1	973.9	924.7	875.6	823.4
70°	1579.1	1517.7	1456.2	1394.8	1330.3	1265.8	1204.3	1142.9	1081.4	1016.9	958.5
67.5°	1886.4	1815.7	1735.8	1649.8	1554.6	1471.6	1391.7	1318.0	1244.3	1170.5	1096.8
65°	2270.4	2172.1	2064.6	1947.8	1837.2	1726.6	1609.9	1499.3	1413.2	1327.2	1244.3
62.5°	2743.5	2605.3	2454.7	2304.2	2169.0	2024.6	1889.4	1745.0	1609.9	1487.0	1385.6
60°	3308.8	3121.4	2937.1	2743.5	2556.1	2359.5	2187.4	2009.2	1840.3	1689.7	1542.3
57.5°	3932.5	3714.3	3493.1	3256.6	3001.6	2771.2	2537.7	2304.2	2104.5	1904.8	1738.9
55°	4565.4	4334.9	4086.1	3818.8	3539.2	3244.3	2927.9	2666.7	2393.3	2159.8	1944.7
52.5°	5167.5	4927.9	4669.8	4424.0	4089.2	3751.2	3404.1	3060.0	2740.4	2442.4	2181.3
50°	5705.2	5471.7	5222.8	4937.1	4626.8	4267.4	3880.2	3493.1	3115.3	2765.0	2439.4
47.5°	6196.7	5969.4	5720.5	5434.8	5152.2	4752.8	4362.6	3935.5	3514.7	3112.2	2731.2
45°	6657.6	6427.1	6169.1	5895.6	5570.0	5213.6	4811.1	4381.0	3929.4	3477.8	3038.5
42.5°	7075.4	6845.0	6583.8	6301.2	5978.6	5625.3	5235.1	4801.9	4347.2	3855.7	3373.3
40°	7441.0	7216.7	6964.8	6669.8	6368.8	5997.0	5613.0	5201.3	4731.3	4236.6	3705.1
37.5°	7760.5	7551.6	7302.7	7010.9	6691.4	6359.6	5963.2	5551.6	5127.6	4589.9	4046.1
35°	8043.1	7849.6	7594.6	7318.1	7004.7	6654.5	6282.7	5880.3	5422.5	4918.7	4390.2
32.5°	8288.9	8092.3	7858.8	7582.3	7278.2	6949.4	6568.5	6162.9	5729.7	5216.7	4642.2
30°	8497.8	8307.4	8086.2	7825.0	7533.2	7207.5	6835.8	6427.1	5984.7	5474.7	4906.4
27.5°	8679.1	8497.8	8282.8	8040.1	7760.5	7447.1	7072.3	6660.6	6209.0	5717.5	5149.1
25°	8835.8	8660.7	8461.0	8230.6	7954.0	7646.8	7293.5	6863.4	6411.8	5917.1	5354.9
22.5°	8977.1	8808.1	8608.4	8384.2	8132.2	7825.0	7468.6	7041.6	6583.8	6095.3	5542.3
20°	9103.1	8946.4	8749.8	8519.3	8267.4	7957.1	7603.8	7198.3	6737.4	6258.2	5711.3
17.5°	9204.5	9066.2	8869.6	8626.9	8374.9	8073.9	7729.8	7358.0	6869.5	6396.4	5852.6
15°	9275.1	9139.9	8961.7	8716.0	8470.2	8172.2	7828.1	7444.1	6989.4	6507.0	5969.4
12.5°	9324.3	9179.9	9014.0	8786.6	8540.8	8245.9	7911.0	7533.2	7090.7	6605.3	6070.8
10°	9336.6	9204.5	9038.6	8835.8	8596.1	8310.4	7981.7	7606.9	7173.7	6682.1	6153.7
7.5°	9342.7	9216.7	9066.2	8872.7	8636.1	8359.6	8033.9	7665.3	7235.1	6746.7	6215.2
5°	9339.6	9219.8	9084.6	8897.2	8660.7	8387.2	8067.7	7705.2	7278.2	6789.7	6261.2
2.5°	9330.4	9222.9	9096.9	8915.7	8688.3	8418.0	8101.5	7751.3	7324.2	6826.5	6298.1
0°	9355.0	9262.8	9103.1	8909.5	8694.5	8418.0	8098.4	7757.4	7330.4	6823.5	6295.0



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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°	76.8	73.7	73.7	70.7	67.6	64.5	58.4	55.3	49.2	39.9	30.7
85°	165.9	156.7	147.5	141.3	135.2	129.0	119.8	110.6	98.3	79.9	61.4
82.5°	291.9	273.4	255.0	233.5	215.1	196.6	181.3	165.9	147.5	119.8	92.2
80°	417.8	390.2	362.5	331.8	304.2	273.4	245.8	221.2	196.6	159.8	122.9
77.5°	543.8	506.9	467.0	430.1	390.2	350.2	310.3	276.5	239.6	196.6	153.6
75°	660.5	617.5	580.7	528.4	479.3	427.0	374.8	328.7	282.6	230.4	184.3
72.5°	777.3	722.0	669.7	620.6	565.3	500.8	442.4	384.0	325.7	264.2	208.9
70°	894.0	826.4	761.9	703.5	642.1	577.6	506.9	439.3	368.7	294.9	230.4
67.5°	1013.8	937.0	863.3	789.6	718.9	645.2	571.4	494.6	411.7	325.7	255.0
65°	1145.9	1050.7	961.6	878.7	795.7	715.8	632.9	549.9	457.8	359.5	276.5
62.5°	1278.1	1173.6	1069.1	964.7	872.5	783.4	694.3	602.2	500.8	396.3	298.0
60°	1419.4	1299.6	1179.7	1063.0	949.3	851.0	752.7	654.4	546.9	430.1	319.5
57.5°	1576.1	1431.7	1296.5	1164.4	1035.3	918.6	811.1	706.6	586.8	463.9	344.1
55°	1754.3	1576.1	1416.3	1268.8	1127.5	986.2	869.4	761.9	632.9	497.7	371.7
52.5°	1941.7	1735.8	1542.3	1376.4	1225.8	1066.1	924.7	804.9	679.0	531.5	396.3
50°	2159.8	1898.6	1683.6	1480.8	1311.8	1145.9	983.1	854.1	725.1	571.4	420.9
47.5°	2384.1	2095.3	1824.9	1603.7	1404.0	1222.8	1050.7	897.1	768.1	608.3	445.5
45°	2645.2	2282.7	1984.7	1723.5	1493.1	1302.6	1118.3	943.2	804.9	645.2	470.1
42.5°	2897.1	2503.9	2150.6	1855.6	1594.5	1379.4	1179.7	992.3	841.8	682.0	491.6
40°	3195.1	2725.1	2310.3	1981.6	1695.9	1453.2	1241.2	1044.6	875.6	715.8	513.1
37.5°	3480.9	2949.4	2503.9	2119.9	1794.2	1526.9	1302.6	1093.7	906.3	749.6	540.7
35°	3763.5	3198.2	2688.2	2248.9	1895.6	1609.9	1364.1	1139.8	937.0	777.3	565.3
32.5°	4033.9	3431.7	2875.6	2393.3	2006.2	1686.7	1419.4	1182.8	967.8	801.9	589.9
30°	4285.8	3652.9	3060.0	2540.7	2107.6	1757.3	1471.6	1225.8	1004.6	823.4	614.4
27.5°	4516.2	3868.0	3244.3	2679.0	2202.8	1821.8	1526.9	1265.8	1035.3	844.9	636.0
25°	4725.1	4061.5	3413.3	2805.0	2288.8	1892.5	1579.1	1305.7	1063.0	863.3	654.4
22.5°	4921.7	4239.7	3566.9	2930.9	2393.3	1963.2	1628.3	1342.6	1090.6	881.7	672.8
20°	5093.8	4402.5	3714.3	3056.9	2485.4	2027.7	1671.3	1376.4	1115.2	894.0	691.3
17.5°	5232.0	4546.9	3846.5	3167.5	2565.3	2083.0	1708.2	1407.1	1136.7	909.4	703.5
15°	5354.9	4669.8	3957.1	3262.7	2636.0	2129.1	1742.0	1431.7	1155.2	918.6	718.9
12.5°	5459.4	4774.3	4052.3	3345.7	2697.4	2169.0	1769.6	1450.1	1170.5	927.8	728.1
10°	5545.4	4857.2	4132.2	3410.2	2746.6	2199.7	1791.1	1468.5	1182.8	937.0	737.3
7.5°	5609.9	4918.7	4190.5	3465.5	2786.5	2221.2	1809.6	1480.8	1195.1	943.2	752.7
5°	5659.1	4970.9	4236.6	3502.4	2817.3	2252.0	1831.1	1496.2	1207.4	949.3	752.7
2.5°	5695.9	5013.9	4273.5	3533.1	2841.8	2245.8	1831.1	1493.1	1207.4	949.3	749.6
0°	5689.8	5017.0	4270.4	3533.1	2841.8	2239.7	1831.1	1490.0	1207.4	949.3	749.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.5	15.4	6.1	0.0
85°	46.1	30.7	15.4	0.0
82.5°	67.6	43.0	21.5	0.0
80°	89.1	58.4	27.7	0.0
77.5°	113.7	73.7	36.9	0.0
75°	135.2	86.0	43.0	0.0
72.5°	156.7	101.4	49.2	0.0
70°	175.1	113.7	55.3	0.0
67.5°	193.6	129.0	64.5	0.0
65°	208.9	141.3	70.7	0.0
62.5°	221.2	156.7	76.8	0.0
60°	236.6	169.0	83.0	0.0
57.5°	248.9	178.2	89.1	0.0
55°	261.1	184.3	95.2	0.0
52.5°	273.4	193.6	101.4	0.0
50°	285.7	202.8	107.5	0.0
47.5°	298.0	208.9	110.6	0.0
45°	316.4	218.1	116.7	0.0
42.5°	331.8	224.3	122.9	0.0
40°	347.2	230.4	126.0	0.0
37.5°	362.5	236.6	132.1	0.0
35°	377.9	242.7	135.2	0.0
32.5°	390.2	248.9	138.3	0.0
30°	402.5	255.0	141.3	0.0
27.5°	414.8	258.1	144.4	0.0
25°	424.0	264.2	147.5	0.0
22.5°	433.2	267.3	150.5	0.0
20°	439.3	270.4	153.6	0.0
17.5°	448.5	273.4	156.7	0.0
15°	451.6	276.5	162.8	0.0
12.5°	457.8	279.6	162.8	0.0
10°	460.8	282.6	162.8	0.0
7.5°	467.0	282.6	162.8	0.0
5°	463.9	282.6	162.8	0.0
2.5°	463.9	282.6	162.8	0.0
0°	460.8	282.6	162.8	0.0

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