

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: P628520

Luminaire Tested: **IFLD-L-SA7C-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628520
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

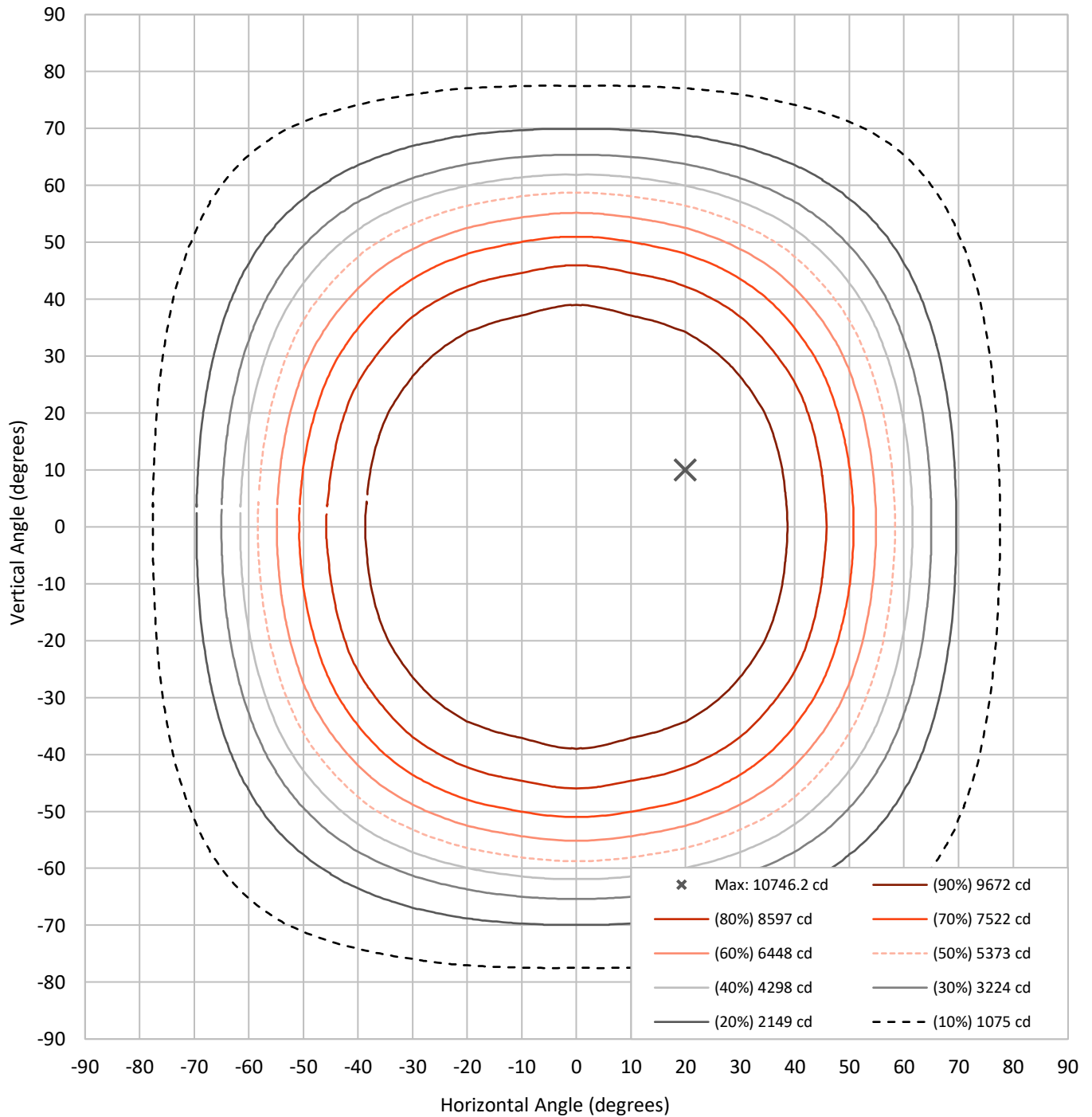
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32967.9 lumens	Max Intensity:	10746.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	89.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20229.8 lumens	Field Lumens:	24252.1 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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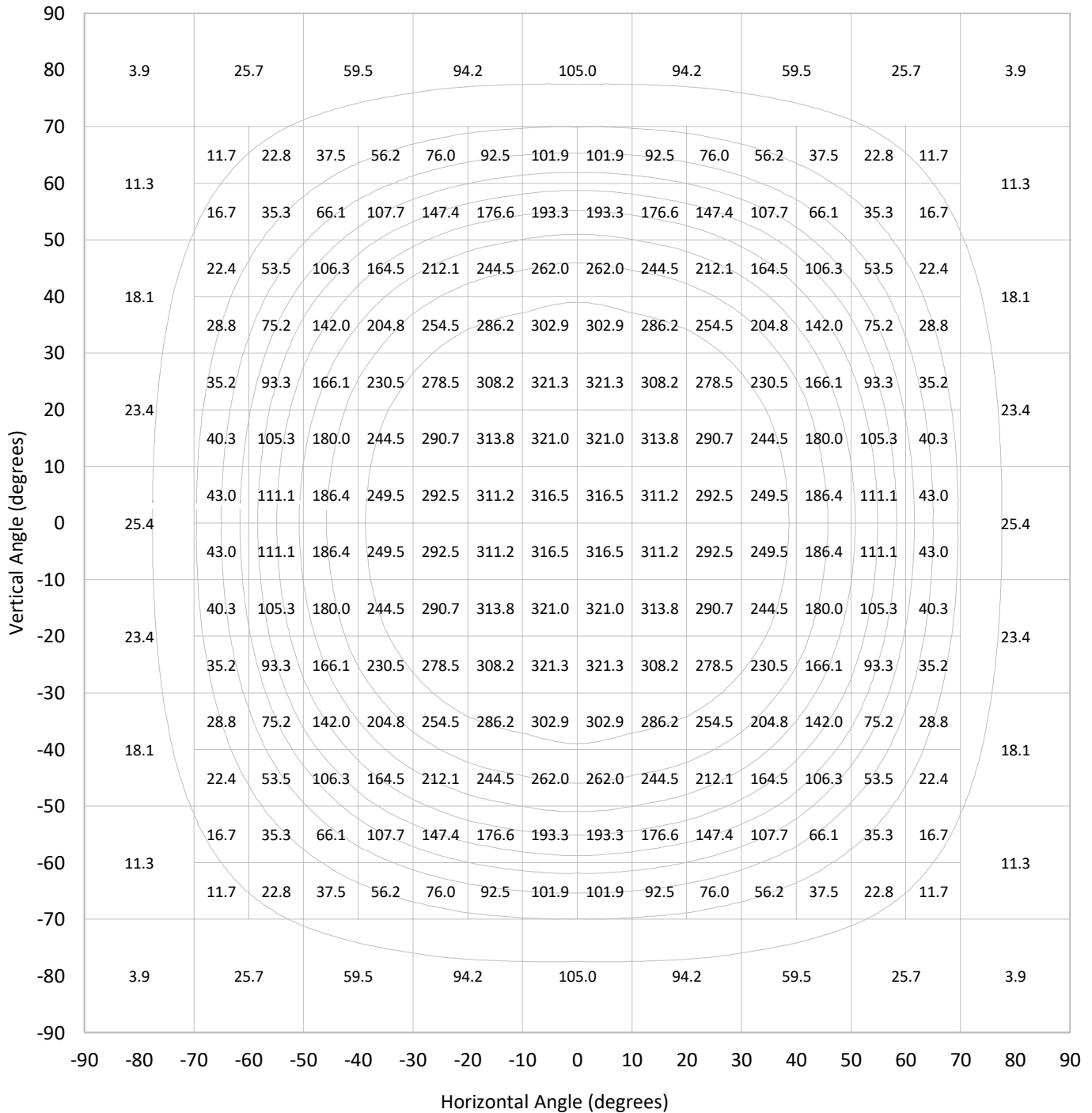
Iso-Candela Plot





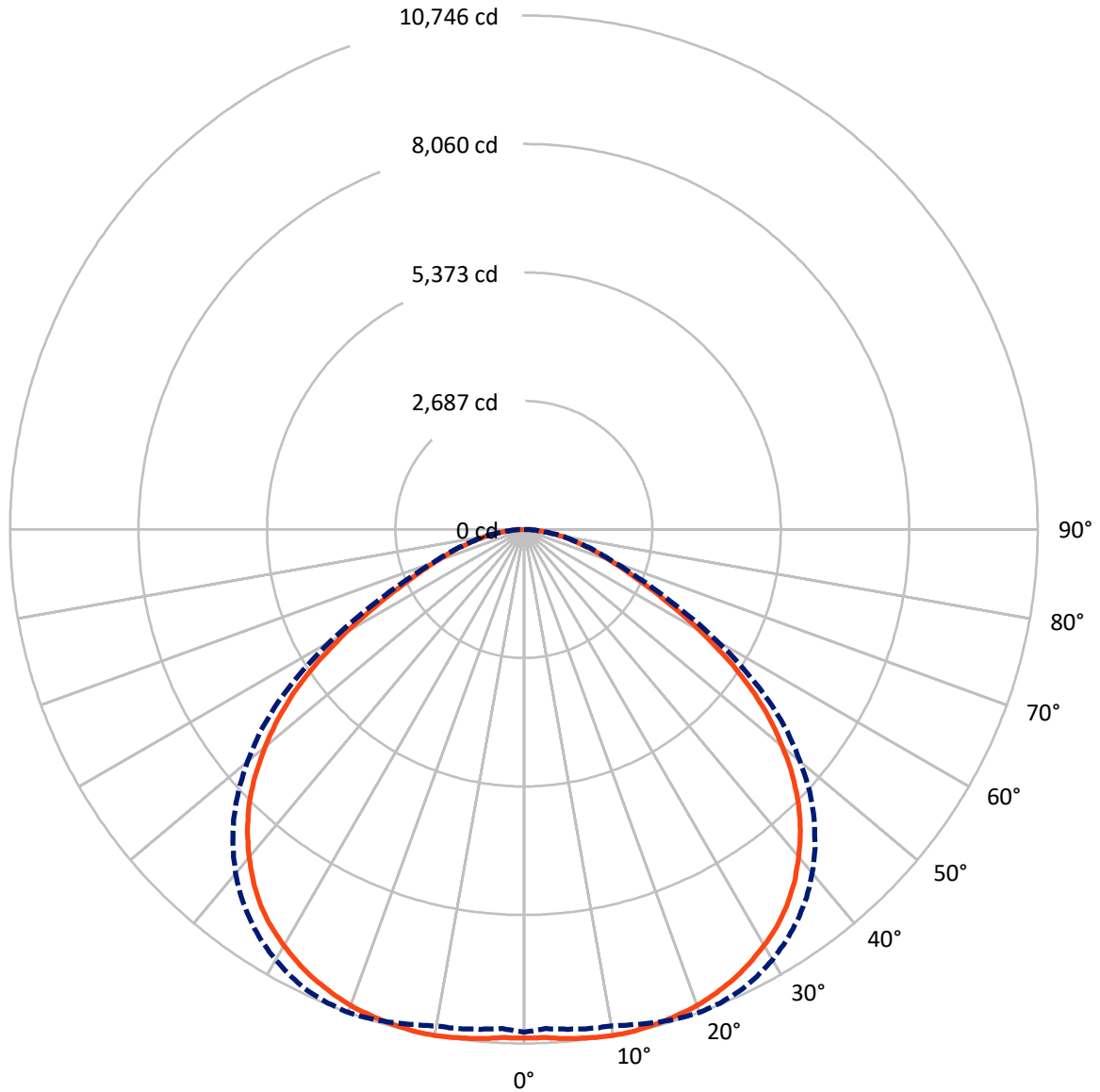
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Lumen Table



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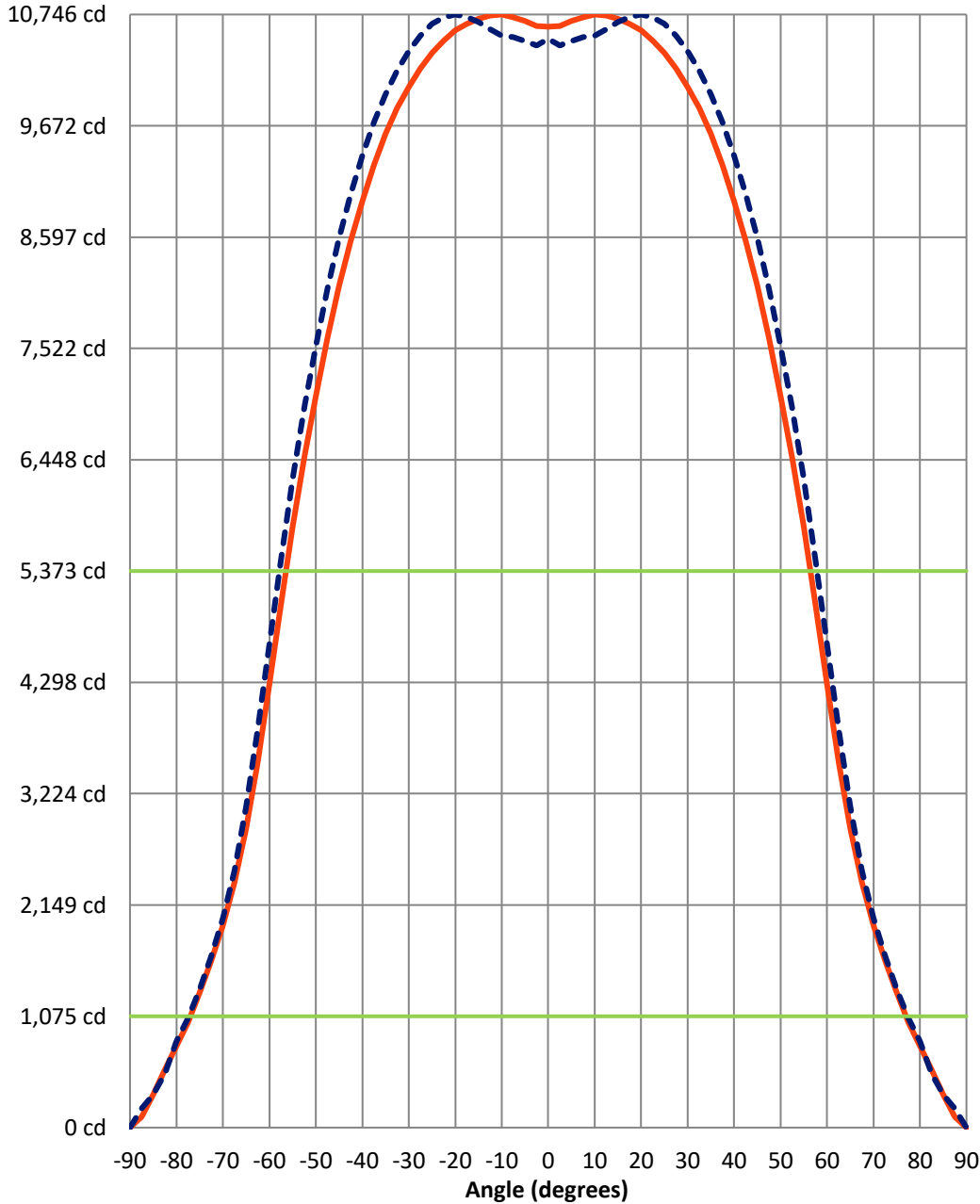
Luminous Intensity Polar Plot



— 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: 20229.8
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 24252.1
Efficiency: 73.6%

Spill:
Lumens: 8715.8
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°	86.7	93.7	97.1	100.6	104.1	107.5	111.0	107.5	104.1	104.1	100.6
85°	232.4	239.3	242.8	267.1	291.4	305.3	322.6	319.1	319.1	315.7	312.2
82.5°	464.8	485.6	503.0	527.3	541.1	561.9	575.8	565.4	558.5	544.6	534.2
80°	825.6	832.5	836.0	839.4	822.1	818.6	811.7	801.3	787.4	770.1	752.7
77.5°	1051.0	1058.0	1064.9	1058.0	1054.5	1051.0	1040.6	1030.2	1016.3	1002.5	981.7
75°	1391.0	1391.0	1391.0	1380.6	1373.6	1363.2	1345.9	1328.5	1304.3	1276.5	1245.3
72.5°	1751.7	1748.3	1744.8	1724.0	1706.6	1685.8	1661.5	1640.7	1613.0	1581.8	1540.1
70°	2129.8	2136.8	2140.2	2112.5	2091.7	2063.9	2032.7	1994.5	1952.9	1907.8	1848.8
67.5°	2650.1	2643.2	2636.3	2598.1	2570.4	2532.2	2487.1	2431.6	2369.2	2299.8	2216.5
65°	3295.3	3305.7	3284.9	3246.8	3194.7	3132.3	3062.9	2983.1	2889.5	2785.4	2667.5
62.5°	4075.8	4093.1	4068.9	4020.3	3954.4	3871.1	3774.0	3659.5	3531.2	3385.5	3239.8
60°	4963.8	4960.3	4915.2	4849.3	4762.6	4658.5	4551.0	4426.1	4280.4	4110.5	3933.6
57.5°	5779.0	5772.0	5716.5	5650.6	5563.9	5452.9	5338.4	5206.6	5054.0	4873.6	4669.0
55°	6510.9	6503.9	6448.4	6379.0	6288.9	6177.9	6073.8	5948.9	5799.8	5609.0	5390.5
52.5°	7159.5	7163.0	7114.4	7038.1	6941.0	6833.5	6732.9	6608.0	6465.8	6275.0	6063.4
50°	7756.1	7752.7	7700.6	7631.3	7541.1	7437.0	7336.4	7211.6	7062.4	6878.5	6673.9
47.5°	8311.1	8304.2	8245.2	8168.9	8075.3	7985.1	7891.4	7780.4	7624.3	7440.5	7235.8
45°	8776.0	8762.1	8703.1	8630.3	8540.1	8460.3	8377.1	8293.8	8127.3	7957.3	7763.1
42.5°	9174.9	9171.4	9112.4	9039.6	8949.4	8880.0	8803.7	8699.6	8560.9	8404.8	8214.0
40°	9556.4	9528.7	9469.7	9400.3	9317.1	9258.1	9181.8	9077.7	8942.5	8789.8	8606.0
37.5°	9840.9	9844.3	9781.9	9705.6	9632.7	9577.2	9507.9	9410.7	9292.8	9143.6	8959.8
35°	10111.4	10094.1	10042.1	9976.2	9910.2	9847.8	9775.0	9691.7	9594.6	9455.8	9282.4
32.5°	10288.3	10312.6	10250.2	10180.8	10142.7	10094.1	10017.8	9931.1	9844.3	9705.6	9549.5
30°	10482.6	10461.8	10413.2	10354.2	10326.5	10295.3	10229.4	10146.1	10045.5	9920.7	9775.0
27.5°	10617.9	10607.5	10548.5	10493.0	10479.1	10451.4	10399.3	10326.5	10225.9	10104.5	9969.2
25°	10676.8	10683.8	10628.3	10597.1	10597.1	10579.7	10538.1	10475.7	10375.1	10264.1	10132.2
22.5°	10704.6	10697.7	10659.5	10652.6	10669.9	10656.0	10638.7	10583.2	10493.0	10402.8	10291.8
20°	10721.9	10673.4	10638.7	10666.4	10687.2	10683.8	10669.9	10635.2	10593.6	10517.3	10420.2
17.5°	10683.8	10652.6	10610.9	10652.6	10697.7	10701.1	10687.2	10666.4	10656.0	10607.5	10520.7
15°	10590.1	10565.8	10572.8	10614.4	10666.4	10683.8	10694.2	10718.5	10704.6	10666.4	10590.1
12.5°	10527.7	10496.5	10527.7	10569.3	10597.1	10607.5	10690.7	10735.8	10735.8	10701.1	10652.6
10°	10510.3	10447.9	10489.5	10527.7	10541.6	10604.0	10673.4	10721.9	10746.2	10718.5	10656.0
7.5°	10475.7	10434.0	10451.4	10468.7	10548.5	10593.6	10631.7	10683.8	10718.5	10715.0	10659.5
5°	10458.3	10406.3	10413.2	10486.1	10541.6	10572.8	10586.7	10631.7	10683.8	10694.2	10652.6
2.5°	10413.2	10388.9	10441.0	10447.9	10489.5	10513.8	10527.7	10569.3	10635.2	10659.5	10642.2
0°	10388.9	10354.2	10319.6	10347.3	10416.7	10468.7	10489.5	10552.0	10628.3	10652.6	10614.4



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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°	97.1	93.7	90.2	86.7	90.2	90.2	90.2	86.7	90.2	86.7	86.7
85°	301.8	287.9	277.5	263.6	249.8	239.3	225.5	211.6	208.1	204.7	197.7
82.5°	520.3	503.0	485.6	464.8	444.0	419.7	395.4	367.7	360.8	353.8	343.4
80°	731.9	707.6	683.3	659.1	638.3	614.0	586.2	555.0	534.2	516.8	496.0
77.5°	953.9	919.2	884.5	842.9	818.6	794.3	766.6	735.4	704.2	676.4	645.2
75°	1207.1	1169.0	1134.3	1092.7	1047.6	1002.5	957.4	915.8	870.7	829.0	787.4
72.5°	1488.1	1432.6	1377.1	1325.1	1269.6	1214.1	1155.1	1099.6	1044.1	988.6	929.6
70°	1782.9	1713.6	1644.2	1574.8	1502.0	1429.1	1359.8	1290.4	1221.0	1148.2	1082.3
67.5°	2129.8	2050.0	1959.8	1862.7	1755.2	1661.5	1571.3	1488.1	1404.8	1321.6	1238.3
65°	2563.4	2452.4	2331.0	2199.2	2074.3	1949.4	1817.6	1692.8	1595.6	1498.5	1404.8
62.5°	3097.6	2941.5	2771.5	2601.6	2448.9	2285.9	2133.3	1970.3	1817.6	1678.9	1564.4
60°	3735.9	3524.3	3316.1	3097.6	2886.0	2664.0	2469.8	2268.6	2077.8	1907.8	1741.3
57.5°	4440.0	4193.7	3944.0	3676.9	3389.0	3128.8	2865.2	2601.6	2376.1	2150.6	1963.3
55°	5154.6	4894.4	4613.4	4311.7	3996.0	3663.0	3305.7	3010.9	2702.2	2438.5	2195.7
52.5°	5834.5	5563.9	5272.5	4995.0	4616.9	4235.4	3843.4	3454.9	3094.1	2757.7	2462.8
50°	6441.5	6177.9	5896.9	5574.3	5224.0	4818.1	4381.0	3944.0	3517.3	3121.9	2754.2
47.5°	6996.5	6739.8	6458.8	6136.2	5817.1	5366.2	4925.6	4443.5	3968.3	3513.9	3083.7
45°	7516.8	7256.6	6965.3	6656.5	6288.9	5886.5	5432.1	4946.5	4436.5	3926.6	3430.6
42.5°	7988.6	7728.4	7433.6	7114.4	6750.2	6351.3	5910.8	5421.7	4908.3	4353.3	3808.7
40°	8401.3	8148.1	7863.7	7530.7	7190.7	6771.0	6337.4	5872.6	5341.9	4783.4	4183.3
37.5°	8762.1	8526.2	8245.2	7915.7	7555.0	7180.3	6732.9	6268.0	5789.4	5182.3	4568.4
35°	9081.2	8862.7	8574.8	8262.6	7908.8	7513.3	7093.6	6639.2	6122.4	5553.5	4956.9
32.5°	9358.7	9136.7	8873.1	8560.9	8217.5	7846.3	7416.2	6958.3	6469.2	5890.0	5241.3
30°	9594.6	9379.5	9129.8	8834.9	8505.4	8137.7	7718.0	7256.6	6757.1	6181.3	5539.6
27.5°	9799.2	9594.6	9351.8	9077.7	8762.1	8408.3	7985.1	7520.3	7010.4	6455.4	5813.6
25°	9976.2	9778.4	9553.0	9292.8	8980.6	8633.7	8234.8	7749.2	7239.3	6680.8	6046.0
22.5°	10135.7	9944.9	9719.5	9466.2	9181.8	8834.9	8432.6	7950.4	7433.6	6882.0	6257.6
20°	10277.9	10101.0	9879.0	9618.9	9334.4	8984.1	8585.2	8127.3	7607.0	7065.9	6448.4
17.5°	10392.4	10236.3	10014.3	9740.3	9455.8	9115.9	8727.4	8307.7	7756.1	7222.0	6608.0
15°	10472.2	10319.6	10118.4	9840.9	9563.4	9226.9	8838.4	8404.8	7891.4	7346.8	6739.8
12.5°	10527.7	10364.7	10177.3	9920.7	9643.2	9310.1	8932.1	8505.4	8005.9	7457.8	6854.3
10°	10541.6	10392.4	10205.1	9976.2	9705.6	9383.0	9011.8	8588.6	8099.6	7544.6	6947.9
7.5°	10548.5	10406.3	10236.3	10017.8	9750.7	9438.5	9070.8	8654.6	8168.9	7617.4	7017.3
5°	10545.0	10409.7	10257.1	10045.5	9778.4	9469.7	9109.0	8699.6	8217.5	7666.0	7069.3
2.5°	10534.6	10413.2	10271.0	10066.3	9809.7	9504.4	9147.1	8751.7	8269.5	7707.6	7111.0
0°	10562.4	10458.3	10277.9	10059.4	9816.6	9504.4	9143.6	8758.6	8276.5	7704.1	7107.5



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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°	86.7	83.3	83.3	79.8	76.3	72.8	65.9	62.4	55.5	45.1	34.7
85°	187.3	176.9	166.5	159.6	152.6	145.7	135.3	124.9	111.0	90.2	69.4
82.5°	329.5	308.7	287.9	263.6	242.8	222.0	204.7	187.3	166.5	135.3	104.1
80°	471.8	440.5	409.3	374.6	343.4	308.7	277.5	249.8	222.0	180.4	138.8
77.5°	614.0	572.3	527.3	485.6	440.5	395.4	350.3	312.2	270.6	222.0	173.4
75°	745.8	697.2	655.6	596.6	541.1	482.2	423.2	371.2	319.1	260.2	208.1
72.5°	877.6	815.2	756.2	700.7	638.3	565.4	499.5	433.6	367.7	298.3	235.9
70°	1009.4	933.1	860.3	794.3	725.0	652.1	572.3	496.0	416.3	333.0	260.2
67.5°	1144.7	1058.0	974.7	891.5	811.7	728.4	645.2	558.5	464.8	367.7	287.9
65°	1293.8	1186.3	1085.7	992.1	898.4	808.2	714.6	620.9	516.8	405.8	312.2
62.5°	1443.0	1325.1	1207.1	1089.2	985.1	884.5	783.9	679.9	565.4	447.5	336.5
60°	1602.6	1467.3	1332.0	1200.2	1071.8	960.8	849.8	738.8	617.4	485.6	360.8
57.5°	1779.5	1616.4	1463.8	1314.7	1169.0	1037.2	915.8	797.8	662.5	523.8	388.5
55°	1980.7	1779.5	1599.1	1432.6	1273.0	1113.5	981.7	860.3	714.6	561.9	419.7
52.5°	2192.3	1959.8	1741.3	1554.0	1384.0	1203.7	1044.1	908.8	766.6	600.1	447.5
50°	2438.5	2143.7	1900.9	1671.9	1481.2	1293.8	1110.0	964.3	818.6	645.2	475.2
47.5°	2691.8	2365.7	2060.4	1810.7	1585.2	1380.6	1186.3	1012.9	867.2	686.8	503.0
45°	2986.6	2577.3	2240.8	1946.0	1685.8	1470.8	1262.6	1064.9	908.8	728.4	530.7
42.5°	3271.0	2827.0	2428.1	2095.1	1800.3	1557.5	1332.0	1120.4	950.4	770.1	555.0
40°	3607.5	3076.8	2608.5	2237.3	1914.8	1640.7	1401.4	1179.4	988.6	808.2	579.3
37.5°	3930.1	3330.0	2827.0	2393.4	2025.8	1724.0	1470.8	1234.9	1023.3	846.4	610.5
35°	4249.2	3611.0	3035.2	2539.1	2140.2	1817.6	1540.1	1286.9	1058.0	877.6	638.3
32.5°	4554.5	3874.6	3246.8	2702.2	2265.1	1904.3	1602.6	1335.5	1092.7	905.3	666.0
30°	4838.9	4124.4	3454.9	2868.7	2379.6	1984.1	1661.5	1384.0	1134.3	929.6	693.8
27.5°	5099.1	4367.2	3663.0	3024.8	2487.1	2057.0	1724.0	1429.1	1169.0	953.9	718.0
25°	5335.0	4585.7	3853.8	3167.0	2584.2	2136.8	1782.9	1474.2	1200.2	974.7	738.8
22.5°	5557.0	4786.9	4027.2	3309.2	2702.2	2216.5	1838.4	1515.8	1231.4	995.5	759.7
20°	5751.2	4970.7	4193.7	3451.4	2806.2	2289.4	1887.0	1554.0	1259.2	1009.4	780.5
17.5°	5907.3	5133.8	4342.9	3576.3	2896.4	2351.8	1928.6	1588.7	1283.4	1026.8	794.3
15°	6046.0	5272.5	4467.8	3683.8	2976.2	2403.9	1966.8	1616.4	1304.3	1037.2	811.7
12.5°	6164.0	5390.5	4575.3	3777.5	3045.6	2448.9	1998.0	1637.3	1321.6	1047.6	822.1
10°	6261.1	5484.1	4665.5	3850.3	3101.1	2483.6	2022.3	1658.1	1335.5	1058.0	832.5
7.5°	6334.0	5553.5	4731.4	3912.8	3146.2	2507.9	2043.1	1671.9	1349.3	1064.9	849.8
5°	6389.5	5612.5	4783.4	3954.4	3180.9	2542.6	2067.4	1689.3	1363.2	1071.8	849.8
2.5°	6431.1	5661.0	4825.0	3989.1	3208.6	2535.7	2067.4	1685.8	1363.2	1071.8	846.4
0°	6424.1	5664.5	4821.6	3989.1	3208.6	2528.7	2067.4	1682.3	1363.2	1071.8	846.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.3	17.3	6.9	0.0
85°	52.0	34.7	17.3	0.0
82.5°	76.3	48.6	24.3	0.0
80°	100.6	65.9	31.2	0.0
77.5°	128.3	83.3	41.6	0.0
75°	152.6	97.1	48.6	0.0
72.5°	176.9	114.5	55.5	0.0
70°	197.7	128.3	62.4	0.0
67.5°	218.5	145.7	72.8	0.0
65°	235.9	159.6	79.8	0.0
62.5°	249.8	176.9	86.7	0.0
60°	267.1	190.8	93.7	0.0
57.5°	281.0	201.2	100.6	0.0
55°	294.8	208.1	107.5	0.0
52.5°	308.7	218.5	114.5	0.0
50°	322.6	228.9	121.4	0.0
47.5°	336.5	235.9	124.9	0.0
45°	357.3	246.3	131.8	0.0
42.5°	374.6	253.2	138.8	0.0
40°	392.0	260.2	142.2	0.0
37.5°	409.3	267.1	149.2	0.0
35°	426.7	274.0	152.6	0.0
32.5°	440.5	281.0	156.1	0.0
30°	454.4	287.9	159.6	0.0
27.5°	468.3	291.4	163.0	0.0
25°	478.7	298.3	166.5	0.0
22.5°	489.1	301.8	170.0	0.0
20°	496.0	305.3	173.4	0.0
17.5°	506.4	308.7	176.9	0.0
15°	509.9	312.2	183.8	0.0
12.5°	516.8	315.7	183.8	0.0
10°	520.3	319.1	183.8	0.0
7.5°	527.3	319.1	183.8	0.0
5°	523.8	319.1	183.8	0.0
2.5°	523.8	319.1	183.8	0.0
0°	520.3	319.1	183.8	0.0

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