

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: P628171

Luminaire Tested: **IFLD-L-SA7B-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

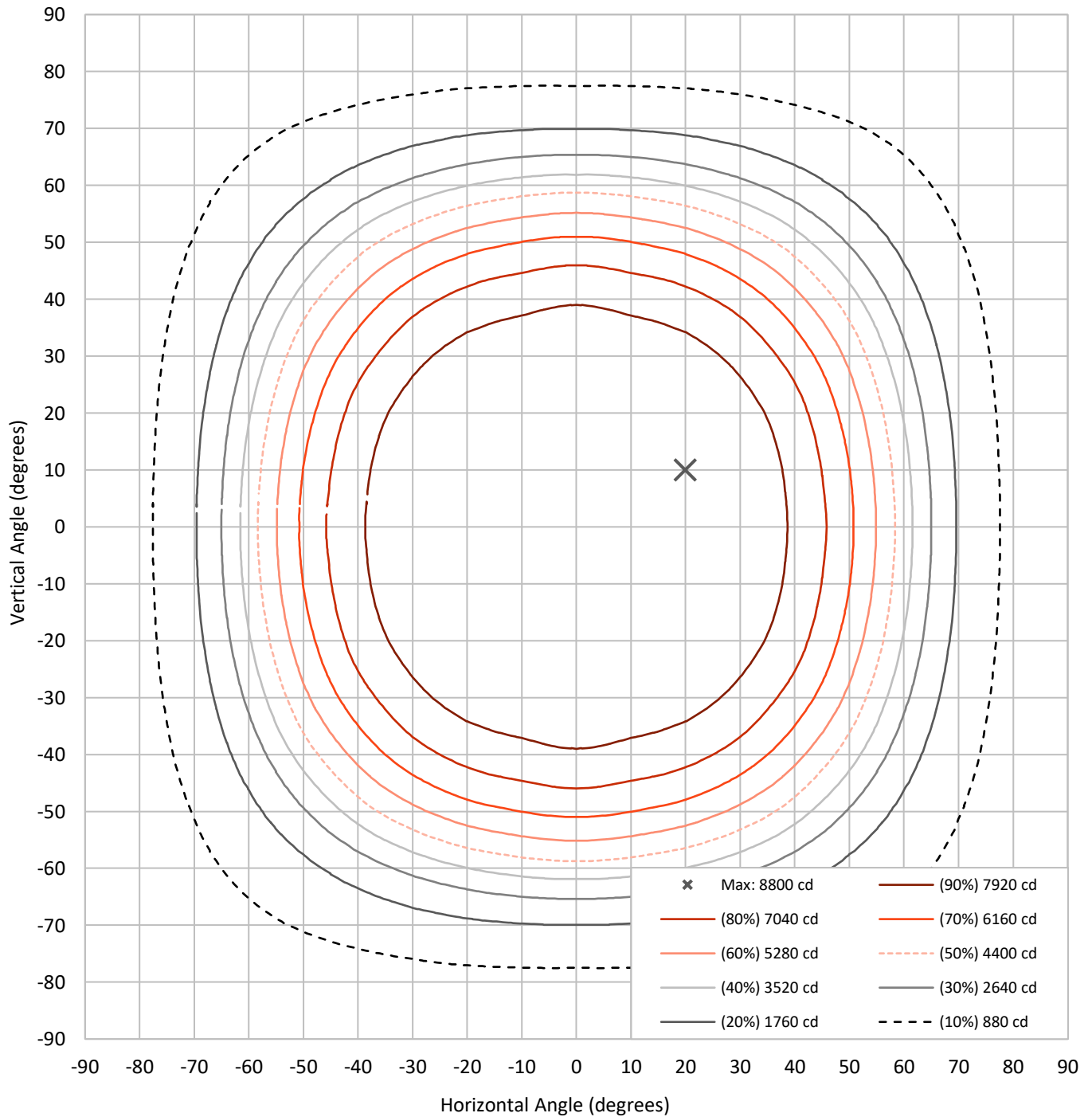
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26997.1 lumens	Max Intensity:	8800 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	96.1 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:	16566 lumens	Field Lumens:	19859.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	281		
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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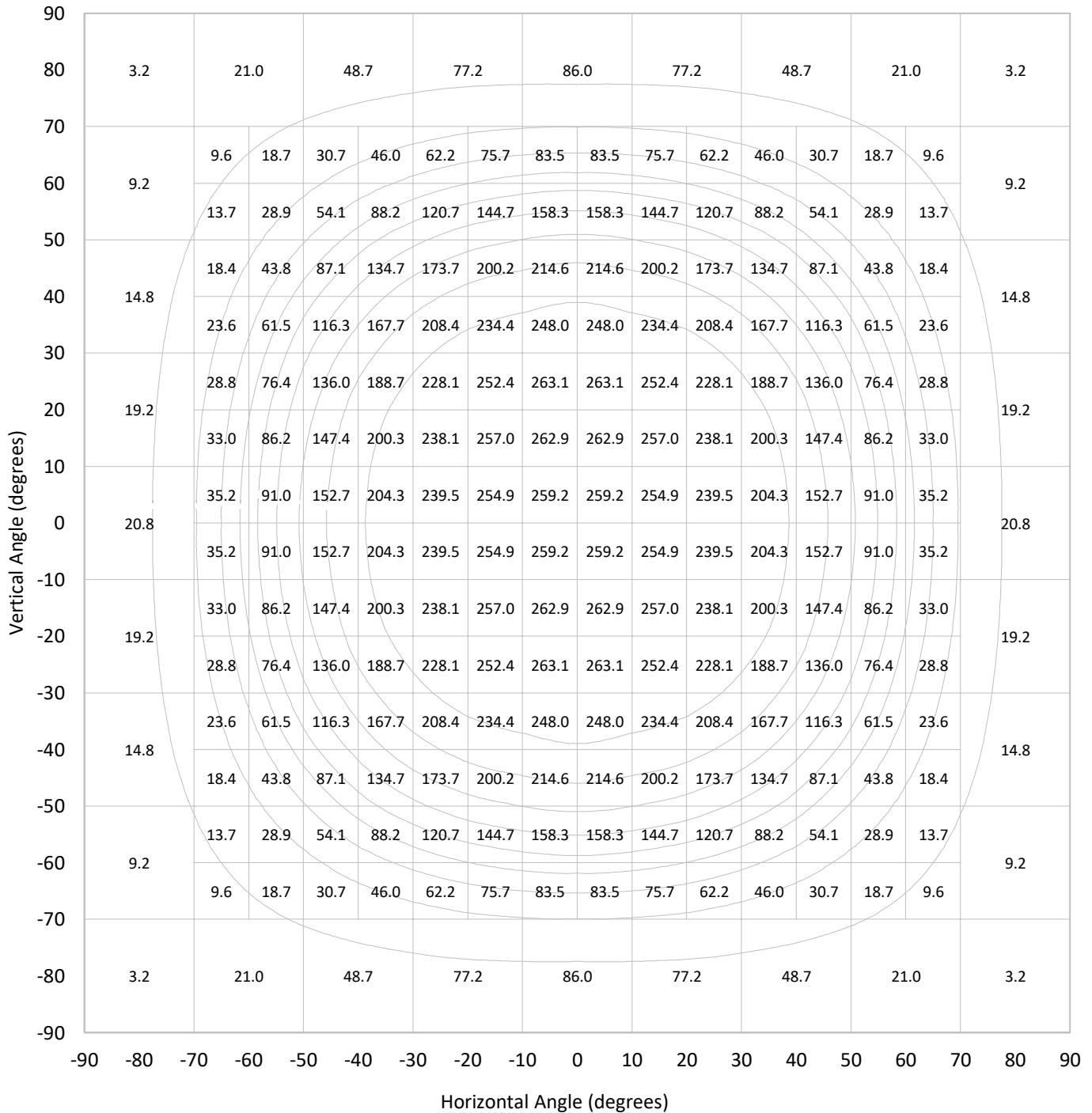
Iso-Candela Plot





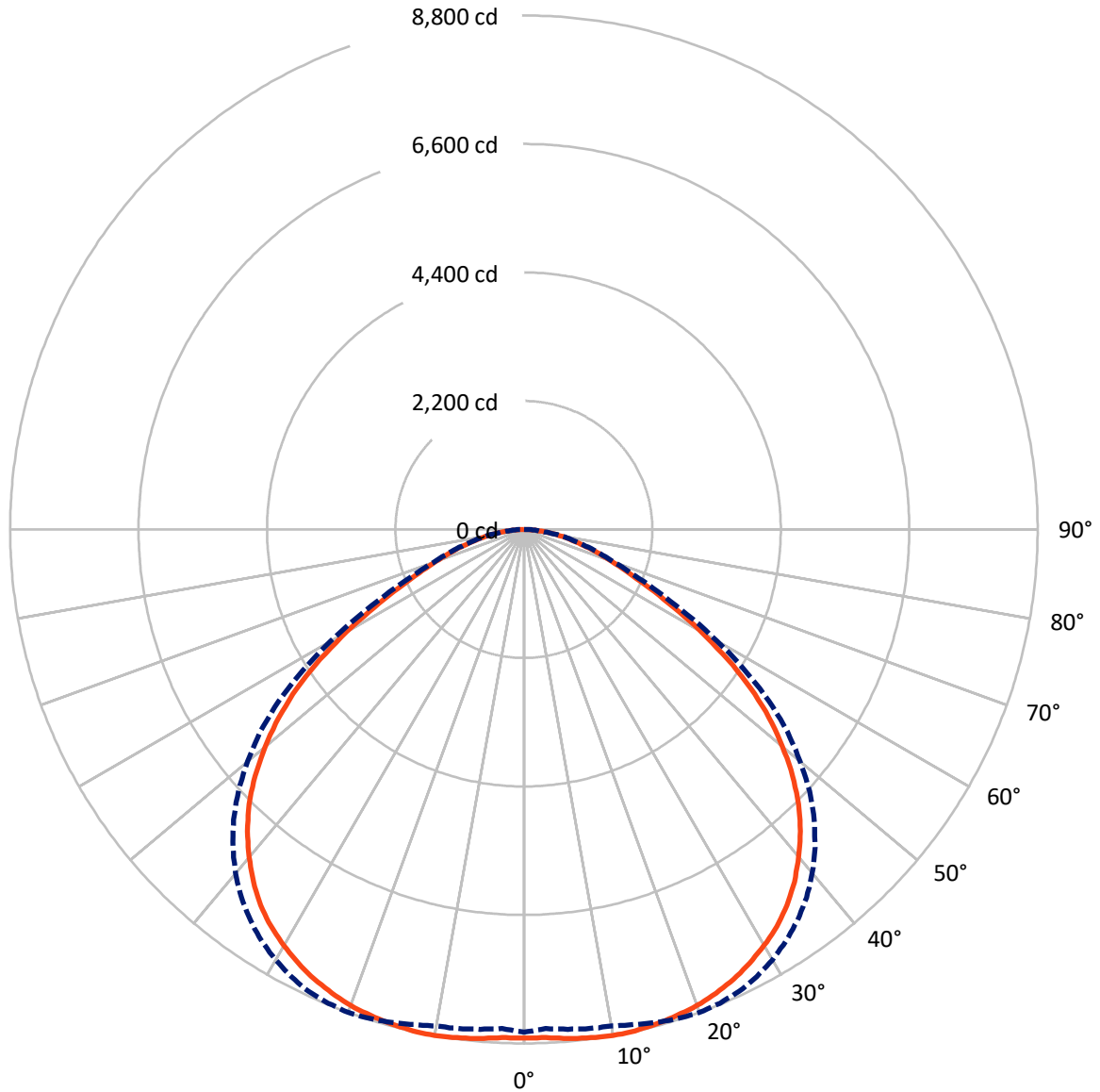
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Lumen Table



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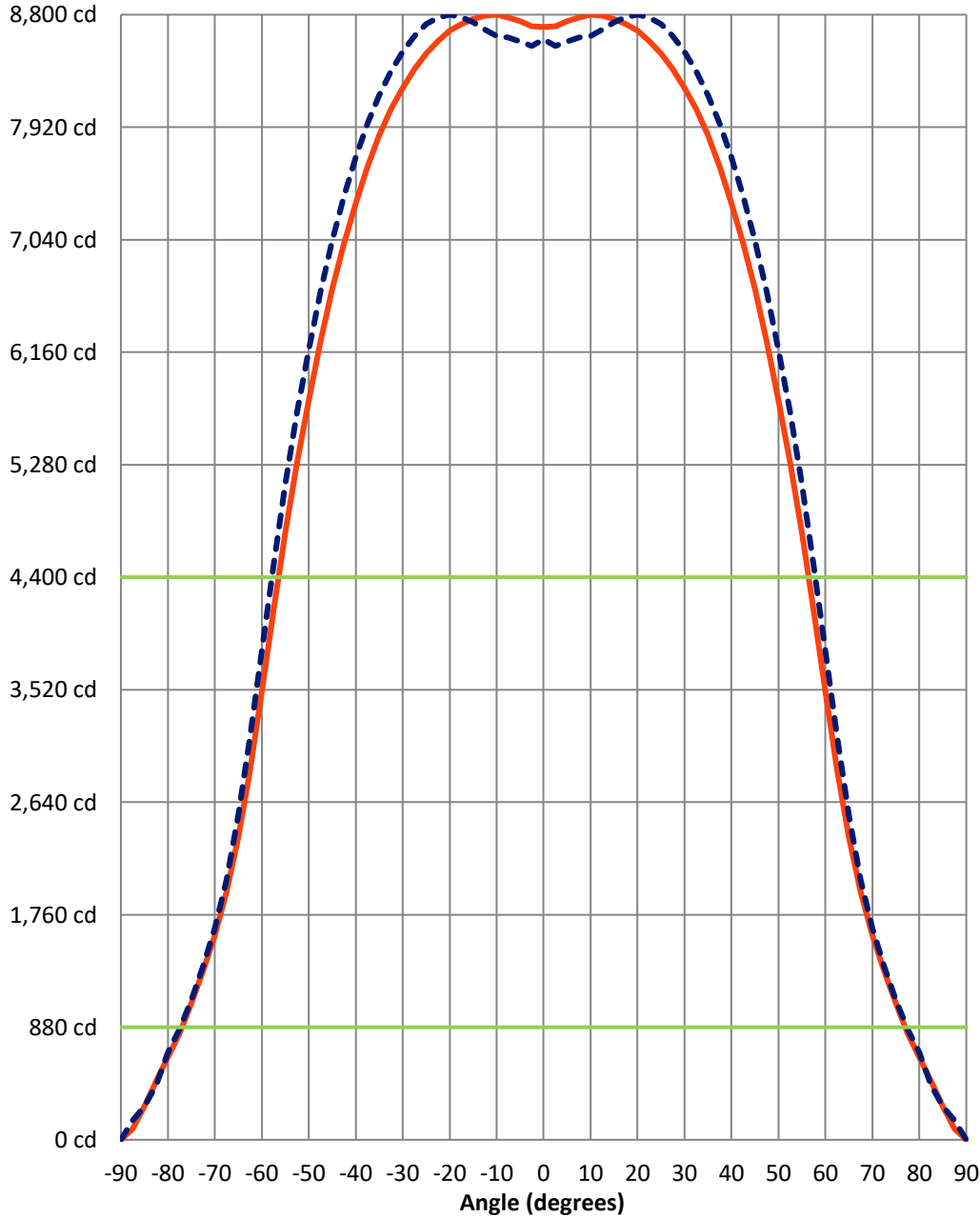
Luminous Intensity Polar Plot



— 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: 16566
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19859.8
 Efficiency: 73.6%

Spill:
 Lumens: 7137.3
 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°	71.0	76.7	79.5	82.4	85.2	88.1	90.9	88.1	85.2	85.2	82.4
85°	190.3	196.0	198.8	218.7	238.6	250.0	264.2	261.3	261.3	258.5	255.6
82.5°	380.6	397.7	411.9	431.8	443.1	460.2	471.5	463.0	457.3	446.0	437.4
80°	676.0	681.7	684.6	687.4	673.2	670.4	664.7	656.2	644.8	630.6	616.4
77.5°	860.7	866.4	872.0	866.4	863.5	860.7	852.2	843.6	832.3	820.9	803.9
75°	1139.1	1139.1	1139.1	1130.5	1124.8	1116.3	1102.1	1087.9	1068.0	1045.3	1019.7
72.5°	1434.5	1431.6	1428.8	1411.7	1397.5	1380.5	1360.6	1343.6	1320.8	1295.3	1261.2
70°	1744.1	1749.8	1752.6	1729.9	1712.8	1690.1	1664.5	1633.3	1599.2	1562.3	1514.0
67.5°	2170.2	2164.5	2158.8	2127.6	2104.8	2073.6	2036.7	1991.2	1940.1	1883.3	1815.1
65°	2698.5	2707.0	2690.0	2658.7	2616.1	2565.0	2508.2	2442.9	2366.2	2280.9	2184.4
62.5°	3337.6	3351.8	3331.9	3292.2	3238.2	3170.0	3090.5	2996.8	2891.7	2772.4	2653.1
60°	4064.8	4062.0	4025.0	3971.1	3900.0	3814.8	3726.8	3624.5	3505.2	3366.0	3221.2
57.5°	4732.3	4726.6	4681.2	4627.2	4556.2	4465.3	4371.6	4263.6	4138.6	3990.9	3823.4
55°	5331.7	5326.0	5280.5	5223.7	5149.9	5059.0	4973.8	4871.5	4749.4	4593.1	4414.2
52.5°	5862.9	5865.7	5825.9	5763.4	5683.9	5595.8	5513.5	5411.2	5294.7	5138.5	4965.2
50°	6351.4	6348.6	6306.0	6249.2	6175.3	6090.1	6007.7	5905.5	5783.3	5632.8	5465.2
47.5°	6805.9	6800.2	6751.9	6689.4	6612.8	6538.9	6462.2	6371.3	6243.5	6092.9	5925.3
45°	7186.5	7175.2	7126.9	7067.2	6993.4	6928.0	6859.9	6791.7	6655.4	6516.2	6357.1
42.5°	7513.2	7510.4	7462.1	7402.4	7328.6	7271.8	7209.3	7124.0	7010.4	6882.6	6726.4
40°	7825.7	7802.9	7754.6	7697.8	7629.7	7581.4	7518.9	7433.7	7322.9	7197.9	7047.4
37.5°	8058.6	8061.4	8010.3	7947.8	7888.1	7842.7	7785.9	7706.4	7609.8	7487.6	7337.1
35°	8280.1	8265.9	8223.3	8169.4	8115.4	8064.3	8004.6	7936.4	7856.9	7743.3	7601.3
32.5°	8425.0	8444.9	8393.8	8337.0	8305.7	8265.9	8203.4	8132.4	8061.4	7947.8	7820.0
30°	8584.1	8567.0	8527.3	8479.0	8456.3	8430.7	8376.7	8308.5	8226.2	8123.9	8004.6
27.5°	8694.9	8686.3	8638.0	8592.6	8581.2	8558.5	8515.9	8456.3	8373.9	8274.5	8163.7
25°	8743.1	8748.8	8703.4	8677.8	8677.8	8663.6	8629.5	8578.4	8496.0	8405.1	8297.2
22.5°	8765.9	8760.2	8728.9	8723.3	8737.5	8726.1	8711.9	8666.5	8592.6	8518.7	8427.8
20°	8780.1	8740.3	8711.9	8734.6	8751.7	8748.8	8737.5	8709.1	8675.0	8612.5	8532.9
17.5°	8748.8	8723.3	8689.2	8723.3	8760.2	8763.0	8751.7	8734.6	8726.1	8686.3	8615.3
15°	8672.1	8652.2	8657.9	8692.0	8734.6	8748.8	8757.3	8777.2	8765.9	8734.6	8672.1
12.5°	8621.0	8595.4	8621.0	8655.1	8677.8	8686.3	8754.5	8791.4	8791.4	8763.0	8723.3
10°	8606.8	8555.7	8589.8	8621.0	8632.4	8683.5	8740.3	8780.1	8800.0	8777.2	8726.1
7.5°	8578.4	8544.3	8558.5	8572.7	8638.0	8675.0	8706.2	8748.8	8777.2	8774.4	8728.9
5°	8564.2	8521.6	8527.3	8586.9	8632.4	8657.9	8669.3	8706.2	8748.8	8757.3	8723.3
2.5°	8527.3	8507.4	8550.0	8555.7	8589.8	8609.6	8621.0	8655.1	8709.1	8728.9	8714.7
0°	8507.4	8479.0	8450.6	8473.3	8530.1	8572.7	8589.8	8640.9	8703.4	8723.3	8692.0



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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°	79.5	76.7	73.9	71.0	73.9	73.9	73.9	71.0	73.9	71.0	71.0
85°	247.1	235.8	227.2	215.9	204.5	196.0	184.6	173.3	170.4	167.6	161.9
82.5°	426.1	411.9	397.7	380.6	363.6	343.7	323.8	301.1	295.4	289.7	281.2
80°	599.4	579.5	559.6	539.7	522.7	502.8	480.0	454.5	437.4	423.2	406.2
77.5°	781.1	752.7	724.3	690.2	670.4	650.5	627.8	602.2	576.6	553.9	528.3
75°	988.5	957.3	928.9	894.8	857.8	820.9	784.0	749.9	713.0	678.9	644.8
72.5°	1218.6	1173.1	1127.7	1085.1	1039.6	994.2	945.9	900.4	855.0	809.6	761.3
70°	1460.0	1403.2	1346.4	1289.6	1229.9	1170.3	1113.5	1056.7	999.9	940.2	886.2
67.5°	1744.1	1678.8	1604.9	1525.4	1437.3	1360.6	1286.8	1218.6	1150.4	1082.2	1014.1
65°	2099.2	2008.3	1908.8	1800.9	1698.6	1596.4	1488.4	1386.2	1306.6	1227.1	1150.4
62.5°	2536.6	2408.8	2269.6	2130.4	2005.4	1871.9	1746.9	1613.4	1488.4	1374.8	1281.1
60°	3059.2	2886.0	2715.5	2536.6	2363.3	2181.5	2022.5	1857.7	1701.5	1562.3	1425.9
57.5°	3635.9	3434.2	3229.7	3011.0	2775.2	2562.2	2346.3	2130.4	1945.8	1761.1	1607.7
55°	4221.0	4008.0	3777.9	3530.8	3272.3	2999.6	2707.0	2465.6	2212.8	1996.9	1798.1
52.5°	4777.8	4556.2	4317.6	4090.4	3780.7	3468.3	3147.3	2829.2	2533.8	2258.2	2016.8
50°	5274.9	5059.0	4828.9	4564.7	4277.8	3945.5	3587.6	3229.7	2880.3	2556.5	2255.4
47.5°	5729.3	5519.1	5289.1	5024.9	4763.6	4394.3	4033.6	3638.7	3249.6	2877.5	2525.2
45°	6155.4	5942.4	5703.8	5451.0	5149.9	4820.4	4448.3	4050.6	3633.0	3215.5	2809.3
42.5°	6541.7	6328.7	6087.3	5825.9	5527.7	5201.0	4840.3	4439.7	4019.3	3564.9	3118.9
40°	6879.8	6672.4	6439.5	6166.8	5888.4	5544.7	5189.6	4809.0	4374.4	3917.1	3425.7
37.5°	7175.2	6982.0	6751.9	6482.1	6186.7	5879.9	5513.5	5132.8	4740.8	4243.7	3741.0
35°	7436.5	7257.6	7021.8	6766.1	6476.4	6152.6	5808.9	5436.8	5013.5	4547.7	4059.1
32.5°	7663.7	7482.0	7266.1	7010.4	6729.2	6425.3	6073.0	5698.1	5297.6	4823.2	4292.0
30°	7856.9	7680.8	7476.3	7234.8	6965.0	6663.9	6320.2	5942.4	5533.3	5061.8	4536.3
27.5°	8024.5	7856.9	7658.1	7433.7	7175.2	6885.4	6538.9	6158.3	5740.7	5286.2	4760.7
25°	8169.4	8007.4	7822.8	7609.8	7354.1	7070.1	6743.4	6345.7	5928.2	5470.9	4951.0
22.5°	8300.0	8143.8	7959.2	7751.8	7518.9	7234.8	6905.3	6510.5	6087.3	5635.6	5124.3
20°	8416.5	8271.6	8089.8	7876.8	7643.9	7357.0	7030.3	6655.4	6229.3	5786.2	5280.5
17.5°	8510.2	8382.4	8200.6	7976.2	7743.3	7464.9	7146.8	6803.1	6351.4	5914.0	5411.2
15°	8575.6	8450.6	8285.8	8058.6	7831.3	7555.8	7237.7	6882.6	6462.2	6016.2	5519.1
12.5°	8621.0	8487.5	8334.1	8123.9	7896.7	7624.0	7314.4	6965.0	6555.9	6107.1	5612.9
10°	8632.4	8510.2	8356.8	8169.4	7947.8	7683.6	7379.7	7033.1	6632.6	6178.1	5689.6
7.5°	8638.0	8521.6	8382.4	8203.4	7984.7	7729.1	7428.0	7087.1	6689.4	6237.8	5746.4
5°	8635.2	8524.4	8399.4	8226.2	8007.4	7754.6	7459.2	7124.0	6729.2	6277.6	5789.0
2.5°	8626.7	8527.3	8410.8	8243.2	8033.0	7783.0	7490.5	7166.7	6771.8	6311.7	5823.1
0°	8649.4	8564.2	8416.5	8237.5	8038.7	7783.0	7487.6	7172.3	6777.5	6308.8	5820.2



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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°	71.0	68.2	68.2	65.3	62.5	59.7	54.0	51.1	45.4	36.9	28.4
85°	153.4	144.9	136.3	130.7	125.0	119.3	110.8	102.3	90.9	73.9	56.8
82.5°	269.9	252.8	235.8	215.9	198.8	181.8	167.6	153.4	136.3	110.8	85.2
80°	386.3	360.7	335.2	306.8	281.2	252.8	227.2	204.5	181.8	147.7	113.6
77.5°	502.8	468.7	431.8	397.7	360.7	323.8	286.9	255.6	221.6	181.8	142.0
75°	610.7	570.9	536.9	488.6	443.1	394.8	346.5	303.9	261.3	213.0	170.4
72.5°	718.7	667.5	619.2	573.8	522.7	463.0	409.0	355.1	301.1	244.3	193.2
70°	826.6	764.1	704.5	650.5	593.7	534.0	468.7	406.2	340.9	272.7	213.0
67.5°	937.4	866.4	798.2	730.0	664.7	596.5	528.3	457.3	380.6	301.1	235.8
65°	1059.5	971.5	889.1	812.4	735.7	661.8	585.1	508.5	423.2	332.3	255.6
62.5°	1181.7	1085.1	988.5	891.9	806.7	724.3	642.0	556.7	463.0	366.4	275.5
60°	1312.3	1201.5	1090.8	982.8	877.7	786.8	695.9	605.0	505.6	397.7	295.4
57.5°	1457.2	1323.7	1198.7	1076.6	957.3	849.3	749.9	653.3	542.5	428.9	318.1
55°	1621.9	1457.2	1309.5	1173.1	1042.5	911.8	803.9	704.5	585.1	460.2	343.7
52.5°	1795.2	1604.9	1425.9	1272.6	1133.4	985.7	855.0	744.2	627.8	491.4	366.4
50°	1996.9	1755.4	1556.6	1369.1	1212.9	1059.5	909.0	789.7	670.4	528.3	389.2
47.5°	2204.3	1937.2	1687.3	1482.8	1298.1	1130.5	971.5	829.4	710.1	562.4	411.9
45°	2445.7	2110.5	1835.0	1593.5	1380.5	1204.4	1034.0	872.0	744.2	596.5	434.6
42.5°	2678.6	2315.0	1988.4	1715.7	1474.2	1275.4	1090.8	917.5	778.3	630.6	454.5
40°	2954.1	2519.5	2136.1	1832.1	1568.0	1343.6	1147.6	965.8	809.6	661.8	474.4
37.5°	3218.3	2726.9	2315.0	1960.0	1658.9	1411.7	1204.4	1011.2	838.0	693.1	499.9
35°	3479.6	2957.0	2485.5	2079.3	1752.6	1488.4	1261.2	1053.8	866.4	718.7	522.7
32.5°	3729.6	3172.9	2658.7	2212.8	1854.9	1559.5	1312.3	1093.6	894.8	741.4	545.4
30°	3962.5	3377.4	2829.2	2349.1	1948.6	1624.8	1360.6	1133.4	928.9	761.3	568.1
27.5°	4175.6	3576.2	2999.6	2476.9	2036.7	1684.4	1411.7	1170.3	957.3	781.1	588.0
25°	4368.7	3755.2	3155.8	2593.4	2116.2	1749.8	1460.0	1207.2	982.8	798.2	605.0
22.5°	4550.5	3919.9	3297.9	2709.9	2212.8	1815.1	1505.5	1241.3	1008.4	815.2	622.1
20°	4709.6	4070.5	3434.2	2826.3	2298.0	1874.7	1545.2	1272.6	1031.1	826.6	639.1
17.5°	4837.4	4204.0	3556.3	2928.6	2371.8	1925.9	1579.3	1301.0	1051.0	840.8	650.5
15°	4951.0	4317.6	3658.6	3016.6	2437.2	1968.5	1610.6	1323.7	1068.0	849.3	664.7
12.5°	5047.6	4414.2	3746.7	3093.3	2494.0	2005.4	1636.1	1340.7	1082.2	857.8	673.2
10°	5127.2	4490.9	3820.5	3153.0	2539.4	2033.8	1656.0	1357.8	1093.6	866.4	681.7
7.5°	5186.8	4547.7	3874.5	3204.1	2576.4	2053.7	1673.1	1369.1	1105.0	872.0	695.9
5°	5232.3	4596.0	3917.1	3238.2	2604.8	2082.1	1693.0	1383.3	1116.3	877.7	695.9
2.5°	5266.3	4635.7	3951.2	3266.6	2627.5	2076.4	1693.0	1380.5	1116.3	877.7	693.1
0°	5260.7	4638.6	3948.3	3266.6	2627.5	2070.7	1693.0	1377.7	1116.3	877.7	693.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.9	14.2	5.7	0.0
85°	42.6	28.4	14.2	0.0
82.5°	62.5	39.8	19.9	0.0
80°	82.4	54.0	25.6	0.0
77.5°	105.1	68.2	34.1	0.0
75°	125.0	79.5	39.8	0.0
72.5°	144.9	93.7	45.4	0.0
70°	161.9	105.1	51.1	0.0
67.5°	179.0	119.3	59.7	0.0
65°	193.2	130.7	65.3	0.0
62.5°	204.5	144.9	71.0	0.0
60°	218.7	156.2	76.7	0.0
57.5°	230.1	164.8	82.4	0.0
55°	241.4	170.4	88.1	0.0
52.5°	252.8	179.0	93.7	0.0
50°	264.2	187.5	99.4	0.0
47.5°	275.5	193.2	102.3	0.0
45°	292.6	201.7	107.9	0.0
42.5°	306.8	207.4	113.6	0.0
40°	321.0	213.0	116.5	0.0
37.5°	335.2	218.7	122.1	0.0
35°	349.4	224.4	125.0	0.0
32.5°	360.7	230.1	127.8	0.0
30°	372.1	235.8	130.7	0.0
27.5°	383.5	238.6	133.5	0.0
25°	392.0	244.3	136.3	0.0
22.5°	400.5	247.1	139.2	0.0
20°	406.2	250.0	142.0	0.0
17.5°	414.7	252.8	144.9	0.0
15°	417.6	255.6	150.5	0.0
12.5°	423.2	258.5	150.5	0.0
10°	426.1	261.3	150.5	0.0
7.5°	431.8	261.3	150.5	0.0
5°	428.9	261.3	150.5	0.0
2.5°	428.9	261.3	150.5	0.0
0°	426.1	261.3	150.5	0.0

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