

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333088

Luminaire Tested: **S124RDIW-S1020D1340U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333088
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D1340U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8994.5 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

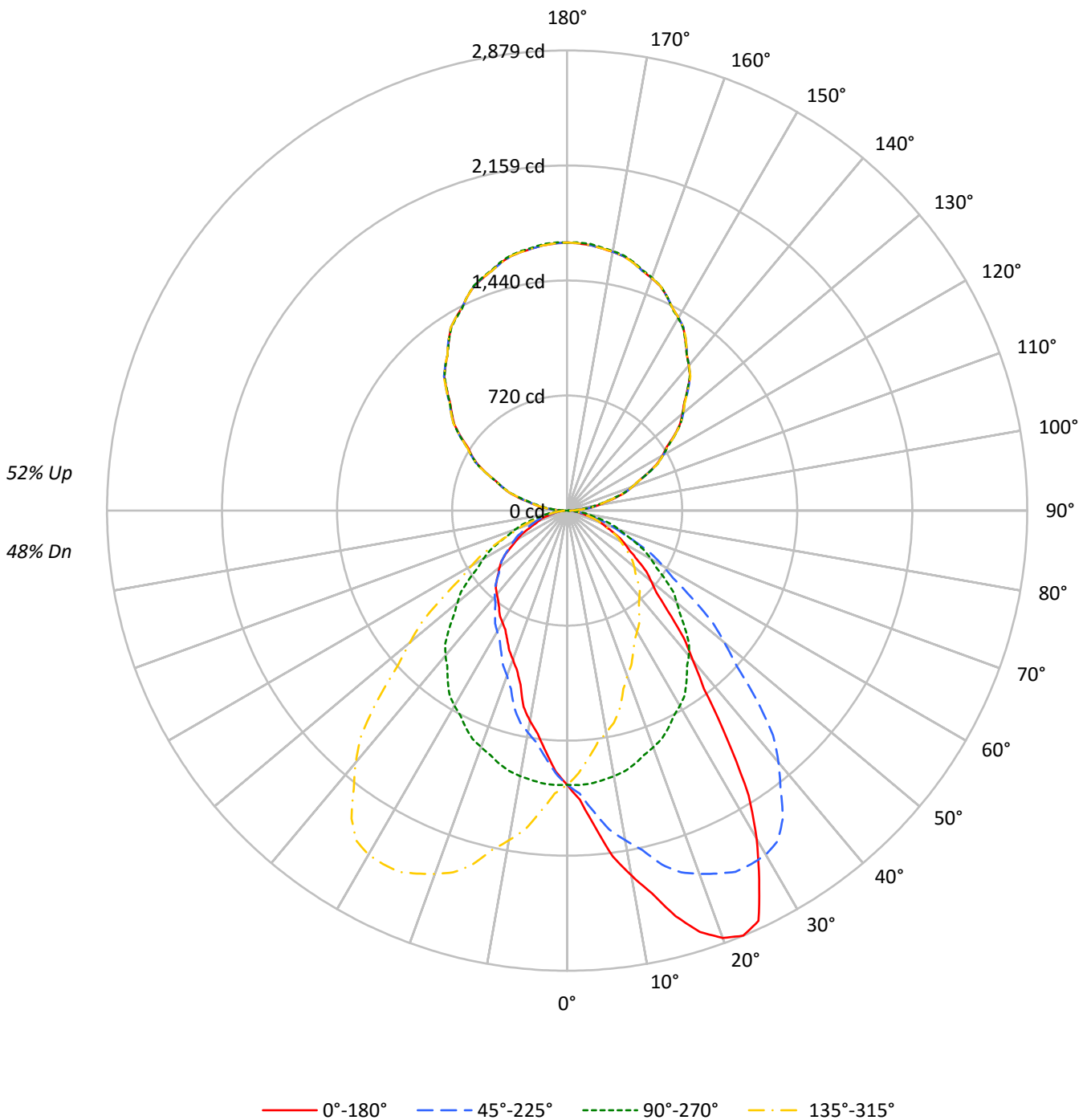
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	94	90	87	90	86	83	80	73	71	69	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	67	64	61	57	54	51	49	44	42	40	36
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35	31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	27
5	69	58	50	44	63	54	47	41	46	40	36	39	35	31	32	29	27	23
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	17
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	23	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13852	13852	13852	13852
5°	16067	13893	12280	13893
10°	19007	13833	10960	13833
15°	21956	13705	9417	13705
20°	24445	13529	8516	13529
25°	25235	13356	7906	13356
30°	22091	13147	7539	13147
35°	17196	12835	7318	12835
40°	12895	12480	7198	12480
45°	10182	11910	7134	11910
50°	8596	11252	6929	11252
55°	7492	10528	6557	10528
60°	6741	9778	5804	9778
65°	5943	8967	4991	8967
70°	5351	8127	4504	8127
75°	4485	7202	3840	7202
80°	3794	6137	3598	6137
85°	3205	4798	3205	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.8
10°-20°	501.5	5.6
20°-30°	784.4	8.7
30°-40°	872.0	9.7
40°-50°	773.6	8.6
50°-60°	602.8	6.7
60°-70°	394.7	4.4
70°-80°	194.1	2.2
80°-90°	52.9	0.6
90°-100°	110.6	1.2
100°-110°	327.6	3.6
110°-120°	556.1	6.2
120°-130°	733.3	8.2
130°-140°	823.5	9.2
140°-150°	809.2	9.0
150°-160°	680.6	7.6
160°-170°	452.8	5.0
170°-180°	158.6	1.8
0°-30°	1452.1	16.1
0°-40°	2324.1	25.8
0°-60°	3700.5	41.1
0°-90°	4342.2	48.3
90°-120°	994.3	11.1
90°-150°	3360.3	37.4
90°-180°	4652.0	51.7
0°-180°	8994.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1716	1716	1716	1716	1716	
5°	1983	1714	1515	1714	1983	201
15°	2627	1640	1127	1640	2627	747
25°	2833	1499	888	1499	2833	1257
35°	1745	1302	742	1302	1745	1094
45°	892	1043	625	1043	892	706
55°	532	748	466	748	532	484
65°	311	469	261	469	311	313
75°	144	231	123	231	144	158
85°	35	52	35	52	35	40
90°	39	4	39	4	39	21
95°	102	78	102	78	102	107
105°	316	302	316	302	316	333
115°	560	565	560	565	560	554
125°	817	824	817	824	817	729
135°	1063	1062	1063	1062	1063	821
145°	1292	1290	1292	1290	1292	808
155°	1477	1478	1477	1478	1477	680
165°	1606	1609	1606	1609	1606	452
175°	1666	1674	1666	1674	1666	158
180°	1677	1677	1677	1677	1677	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1809.8	1814.8	1809.8	1809.3	1803.8	1802.1	1799.9	1792.7	1779.4	1771.7	1773.3
5°	1982.7	1999.9	1990.3	1988.9	1973.7	1958.5	1948.8	1926.7	1903.2	1887.3	1874.1
7.5°	2182.6	2192.5	2186.5	2176.8	2152.2	2138.2	2115.8	2086.6	2044.5	2012.2	1982.8
10°	2318.6	2326.9	2324.2	2306.2	2288.2	2251.6	2230.8	2190.1	2136.8	2094.7	2055.2
12.5°	2452.5	2461.3	2437.0	2437.8	2403.8	2374.9	2342.0	2290.7	2229.2	2174.8	2125.5
15°	2627.0	2615.9	2615.9	2602.1	2564.0	2524.0	2490.1	2436.2	2358.7	2293.7	2225.3
17.5°	2763.6	2767.4	2761.8	2729.1	2699.3	2657.8	2595.7	2532.8	2460.9	2373.7	2303.7
20°	2845.4	2845.4	2839.2	2817.1	2778.4	2734.1	2667.1	2598.6	2507.4	2419.6	2340.8
22.5°	2878.6	2880.8	2873.5	2855.2	2820.4	2777.2	2720.1	2650.6	2556.6	2457.7	2360.1
25°	2833.0	2846.1	2847.5	2842.6	2832.3	2806.0	2756.9	2685.7	2601.4	2494.2	2389.1
27.5°	2601.0	2617.6	2632.1	2656.0	2687.8	2704.4	2706.6	2670.4	2596.8	2493.7	2387.9
30°	2369.8	2383.6	2428.6	2487.3	2532.9	2574.4	2610.4	2620.0	2578.6	2485.9	2374.6
32.5°	2113.2	2132.0	2176.9	2240.1	2316.1	2386.4	2467.1	2508.3	2507.2	2451.6	2348.6
35°	1744.9	1758.7	1800.2	1866.5	1957.8	2062.2	2190.1	2289.6	2357.3	2352.5	2289.6
37.5°	1407.2	1422.8	1464.7	1519.8	1608.3	1737.5	1861.3	1998.4	2123.7	2194.1	2173.0
40°	1223.6	1224.3	1265.1	1321.8	1404.7	1517.4	1652.2	1804.3	1943.9	2058.0	2080.1
42.5°	1078.7	1078.8	1105.8	1166.9	1226.7	1332.7	1461.4	1612.4	1775.8	1907.6	1966.2
45°	891.8	898.0	920.1	956.8	1003.8	1093.6	1196.6	1337.0	1520.2	1676.4	1773.9
47.5°	755.2	764.3	778.4	808.3	845.7	905.6	990.8	1116.9	1265.9	1437.8	1576.5
50°	684.4	685.8	703.7	720.3	752.8	800.5	875.2	980.3	1117.1	1282.4	1436.5
52.5°	623.6	623.3	634.1	655.1	681.5	718.7	779.0	874.6	996.0	1144.1	1303.2
55°	532.3	535.8	544.1	560.6	580.7	607.0	654.7	726.6	822.0	948.5	1093.0
57.5°	462.9	464.7	471.2	478.2	496.6	515.7	551.5	601.4	681.9	785.5	920.1
60°	417.5	418.2	420.3	430.7	445.2	463.2	487.4	529.5	597.3	692.0	798.5
62.5°	373.3	374.5	377.7	385.3	396.5	409.0	434.3	468.2	524.3	605.2	701.1
65°	311.1	311.8	316.6	319.4	328.4	339.4	358.1	380.9	419.6	487.4	560.0
67.5°	259.9	259.9	260.2	263.9	270.2	277.5	288.7	306.9	336.1	377.7	441.7
70°	226.7	226.7	228.1	230.2	233.7	239.9	246.1	259.9	281.4	315.2	364.3
72.5°	195.8	196.3	197.7	198.1	199.9	205.0	209.6	218.5	234.4	259.9	299.6
75°	143.8	145.9	149.3	152.1	155.5	154.9	159.7	165.2	170.1	185.3	208.1
77.5°	107.0	105.9	106.3	108.7	109.1	109.8	113.2	117.5	121.1	128.3	136.5
80°	81.6	81.6	83.6	84.3	83.6	84.3	87.8	89.9	91.3	94.0	101.6
82.5°	61.7	62.8	62.1	62.8	63.2	63.9	66.8	67.2	68.6	69.7	72.9
85°	34.6	35.3	35.9	34.6	34.6	34.6	35.9	36.6	38.0	37.3	38.7
87.5°	19.9	19.3	19.7	19.6	20.0	19.3	19.5	20.2	18.8	19.0	18.5
90°	38.9	38.3	37.8	37.2	36.6	35.4	33.7	32.0	30.3	28.5	26.2
92.5°	57.6	57.2	56.9	56.5	56.2	55.5	54.5	53.4	52.4	51.4	49.7
95°	102.5	102.5	102.5	102.5	102.5	102.0	101.2	100.3	99.4	98.6	96.5
97.5°	160.6	160.6	160.6	160.6	160.6	160.0	159.0	158.0	156.9	155.9	153.5
100°	201.0	201.0	201.0	201.0	201.0	200.7	200.2	199.6	199.0	198.4	195.8
102.5°	246.7	246.4	246.2	246.0	245.7	245.2	244.4	243.6	242.8	242.0	239.6
105°	316.4	315.6	314.7	313.8	313.0	312.1	311.3	310.4	309.5	308.7	307.5
107.5°	384.4	384.5	384.5	384.6	384.6	384.3	383.4	382.6	381.8	381.0	380.9
110°	433.2	432.3	431.4	430.6	429.7	429.6	430.1	430.7	431.3	431.9	432.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	483.0	482.8	482.6	482.4	482.3	482.2	482.4	482.5	482.6	482.7	483.2
115°	560.3	560.5	560.8	561.1	561.4	561.7	562.0	562.3	562.6	562.8	563.4
117.5°	633.9	634.5	635.1	635.6	636.2	637.0	638.0	639.0	639.9	640.9	641.3
120°	689.9	689.4	688.8	688.2	687.6	688.1	689.5	691.0	692.4	693.8	694.7
122.5°	736.6	737.7	738.7	739.7	740.8	741.8	742.8	743.7	744.7	745.7	746.1
125°	817.0	817.6	818.2	818.8	819.3	819.9	820.5	821.1	821.6	822.2	822.5
127.5°	891.5	891.9	892.4	892.9	893.3	893.8	894.4	895.0	895.6	896.1	896.6
130°	940.2	941.4	942.5	943.7	944.9	945.7	946.3	946.9	947.4	948.0	948.0
132.5°	992.1	992.6	993.0	993.5	994.0	994.5	995.1	995.6	996.2	996.8	997.0
135°	1063.4	1064.3	1065.2	1066.0	1066.9	1067.6	1068.2	1068.8	1069.4	1069.9	1069.9
137.5°	1138.4	1138.2	1138.1	1137.9	1137.7	1138.0	1138.8	1139.5	1140.2	1141.0	1140.5
140°	1184.1	1184.3	1184.6	1184.9	1185.2	1185.5	1185.8	1186.1	1186.4	1186.6	1186.6
142.5°	1229.7	1229.8	1229.8	1229.9	1229.9	1230.0	1230.1	1230.1	1230.2	1230.2	1230.5
145°	1291.7	1292.6	1293.4	1294.3	1295.2	1295.7	1296.0	1296.3	1296.6	1296.9	1296.6
147.5°	1354.5	1354.8	1355.0	1355.3	1355.6	1355.9	1356.1	1356.3	1356.6	1356.8	1357.0
150°	1392.9	1393.1	1393.4	1393.7	1394.0	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
152.5°	1428.1	1428.9	1429.6	1430.4	1431.1	1431.2	1430.5	1429.8	1429.1	1428.4	1428.2
155°	1477.2	1478.3	1479.5	1480.6	1481.8	1481.8	1480.6	1479.5	1478.3	1477.2	1477.4
157.5°	1521.0	1522.0	1522.9	1523.9	1524.9	1525.0	1524.1	1523.2	1522.4	1521.5	1521.6
160°	1545.9	1547.3	1548.8	1550.2	1551.6	1551.9	1551.1	1550.2	1549.3	1548.5	1548.8
162.5°	1571.8	1573.3	1574.7	1576.1	1577.6	1577.5	1576.0	1574.4	1572.9	1571.3	1571.6
165°	1605.5	1606.7	1607.8	1609.0	1610.2	1609.9	1608.1	1606.4	1604.7	1602.9	1603.5
167.5°	1629.7	1631.5	1633.2	1635.0	1636.8	1636.8	1635.1	1633.4	1631.7	1629.9	1629.9
170°	1643.2	1645.2	1647.2	1649.2	1651.2	1651.4	1649.6	1647.9	1646.2	1644.4	1644.2
172.5°	1654.6	1656.6	1658.6	1660.6	1662.6	1662.7	1660.7	1658.7	1656.8	1654.8	1654.8
175°	1666.5	1668.5	1670.5	1672.5	1674.6	1674.6	1672.5	1670.5	1668.5	1666.5	1666.8
177.5°	1672.7	1674.6	1676.4	1678.3	1680.1	1680.2	1678.6	1677.0	1675.4	1673.8	1673.8
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1767.8	1760.1	1756.2	1747.3	1736.8	1731.3	1726.3	1719.1	1709.7	1699.8	1692.6
5°	1857.5	1840.9	1820.2	1795.3	1773.2	1751.8	1733.1	1714.4	1693.0	1670.9	1648.8
7.5°	1949.6	1917.0	1881.7	1840.9	1801.3	1765.2	1732.0	1700.2	1664.2	1632.0	1602.7
10°	2013.8	1969.5	1920.4	1868.6	1816.7	1771.8	1727.6	1687.5	1643.2	1603.8	1570.6
12.5°	2065.8	2013.8	1954.7	1890.2	1827.8	1773.5	1722.6	1670.3	1620.0	1577.3	1533.0
15°	2152.0	2080.8	2001.3	1923.9	1843.0	1769.0	1700.6	1639.8	1582.4	1522.3	1480.1
17.5°	2211.3	2126.9	2030.2	1937.2	1841.6	1754.4	1675.4	1603.0	1536.8	1475.4	1425.2
20°	2246.7	2153.4	2046.3	1940.5	1833.3	1740.0	1655.0	1574.8	1506.4	1440.0	1388.1
22.5°	2266.6	2163.4	2046.3	1935.5	1824.5	1723.4	1630.1	1546.6	1472.1	1405.7	1348.3
25°	2273.0	2162.4	2042.8	1915.6	1793.9	1686.8	1590.0	1499.4	1416.5	1350.1	1289.3
27.5°	2264.2	2133.9	2011.4	1880.9	1755.4	1642.4	1540.8	1445.7	1362.6	1291.4	1229.0
30°	2250.9	2111.2	1979.9	1844.4	1717.2	1608.7	1501.5	1410.3	1323.8	1249.9	1187.0
32.5°	2222.1	2083.6	1942.3	1803.5	1674.6	1562.8	1461.1	1369.3	1284.6	1209.0	1142.2
35°	2165.2	2024.8	1871.4	1729.0	1602.4	1486.3	1390.9	1302.4	1221.5	1140.7	1070.1
37.5°	2090.1	1946.7	1794.1	1638.1	1511.5	1401.8	1314.3	1231.2	1152.3	1078.4	1000.3
40°	2019.3	1888.6	1731.0	1576.2	1446.2	1340.4	1259.6	1184.2	1104.7	1031.4	953.3
42.5°	1933.6	1822.3	1663.0	1507.6	1379.3	1277.4	1202.0	1128.3	1056.0	985.0	903.5
45°	1790.5	1706.1	1556.8	1407.5	1278.2	1177.3	1108.2	1043.2	979.6	911.8	835.1
47.5°	1626.5	1569.4	1440.5	1287.6	1168.0	1077.2	1010.4	957.3	903.5	835.8	768.5
50°	1512.6	1475.9	1351.5	1211.9	1097.8	1014.1	945.7	895.9	851.0	786.0	725.9
52.5°	1390.9	1371.4	1266.3	1132.8	1022.6	940.6	882.1	837.3	791.8	737.9	681.6
55°	1205.6	1216.0	1126.8	1011.4	907.7	838.6	785.3	748.0	709.3	663.7	620.1
57.5°	1016.2	1054.1	994.2	892.9	795.7	731.8	691.7	660.3	627.8	590.0	552.8
60°	902.8	934.6	900.8	811.6	726.6	667.1	629.8	605.6	573.1	538.5	510.2
62.5°	792.2	826.2	806.2	734.2	655.2	604.1	571.2	548.6	524.4	494.3	464.8
65°	653.3	675.4	665.7	616.0	560.0	516.4	486.0	469.4	447.3	425.2	398.9
67.5°	500.4	543.1	537.4	511.0	462.6	428.6	408.7	394.0	373.9	357.4	339.6
70°	411.3	450.7	450.0	428.6	402.3	370.5	356.7	344.3	326.3	310.4	295.9
72.5°	336.7	372.8	378.1	361.7	343.7	319.7	306.4	297.8	280.4	269.5	257.7
75°	235.7	262.0	268.9	268.9	260.6	248.2	236.4	230.9	218.5	208.8	201.9
77.5°	154.6	171.2	182.0	184.4	185.7	181.5	171.9	168.0	158.4	155.0	148.4
80°	109.2	120.3	132.7	136.9	140.3	139.0	134.8	132.0	123.1	119.6	116.8
82.5°	75.5	81.6	91.8	100.9	100.0	103.6	100.0	97.8	91.0	89.7	87.0
85°	39.4	40.1	41.5	47.7	51.2	52.5	53.2	51.8	49.8	49.8	44.9
87.5°	18.1	17.0	17.7	17.1	17.1	18.6	19.7	19.6	18.6	17.5	16.5
90°	23.9	21.6	19.3	16.6	13.4	10.2	7.1	3.9	7.1	10.2	13.4
92.5°	48.1	46.5	44.9	42.3	38.6	35.0	31.4	27.8	31.4	35.0	38.6
95°	94.5	92.5	90.5	88.2	85.6	83.0	80.4	77.8	80.4	83.0	85.6
97.5°	151.2	148.8	146.4	144.2	142.1	140.1	138.0	135.9	138.0	140.1	142.1
100°	193.2	190.6	188.0	186.2	185.0	183.9	182.7	181.6	182.7	183.9	185.0
102.5°	237.3	234.9	232.5	231.1	230.7	230.2	229.8	229.3	229.8	230.2	230.7
105°	306.4	305.2	304.0	303.3	303.0	302.8	302.5	302.2	302.5	302.8	303.0
107.5°	380.7	380.5	380.3	380.1	379.7	379.4	379.0	378.7	379.0	379.4	379.7
110°	432.4	432.7	433.0	432.9	432.3	431.7	431.1	430.6	431.1	431.7	432.3



TEST NUMBER: P333088

CATALOG NUMBER: S124RDIW-S1020D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	483.7	484.3	484.8	485.0	484.9	484.7	484.6	484.5	484.6	484.7	484.9
115°	564.0	564.6	565.2	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4
117.5°	641.7	642.1	642.5	642.6	642.4	642.2	641.9	641.7	641.9	642.2	642.4
120°	695.6	696.4	697.3	697.1	696.0	694.8	693.7	692.5	693.7	694.8	696.0
122.5°	746.5	746.9	747.3	747.3	746.8	746.4	745.9	745.4	745.9	746.4	746.8
125°	822.8	823.1	823.4	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5
127.5°	897.1	897.5	898.0	897.8	896.9	896.1	895.2	894.3	895.2	896.1	896.9
130°	948.0	948.0	948.0	947.6	946.7	945.9	945.0	944.1	945.0	945.9	946.7
132.5°	997.2	997.5	997.7	997.5	996.9	996.2	995.6	995.0	995.6	996.2	996.9
135°	1069.9	1069.9	1069.9	1069.1	1067.3	1065.6	1063.9	1062.1	1063.9	1065.6	1067.3
137.5°	1140.1	1139.6	1139.2	1138.5	1137.7	1136.9	1136.1	1135.3	1136.1	1136.9	1137.7
140°	1186.6	1186.6	1186.6	1186.4	1185.8	1185.2	1184.6	1184.1	1184.6	1185.2	1185.8
142.5°	1230.7	1230.9	1231.1	1231.0	1230.4	1229.8	1229.2	1228.7	1229.2	1229.8	1230.4
145°	1296.3	1296.0	1295.7	1295.0	1293.9	1292.7	1291.6	1290.4	1291.6	1292.7	1293.9
147.5°	1357.3	1357.5	1357.7	1357.1	1355.8	1354.4	1353.0	1351.6	1353.0	1354.4	1355.8
150°	1394.1	1394.1	1394.1	1393.6	1392.4	1391.3	1390.1	1389.0	1390.1	1391.3	1392.4
152.5°	1427.9	1427.7	1427.5	1427.0	1426.3	1425.6	1424.9	1424.2	1424.9	1425.6	1426.3
155°	1477.7	1478.0	1478.3	1478.4	1478.4	1478.4	1478.4	1478.4	1478.4	1478.4	1478.4
157.5°	1521.6	1521.7	1521.7	1522.0	1522.5	1523.1	1523.6	1524.1	1523.6	1523.1	1522.5
160°	1549.1	1549.3	1549.6	1549.9	1550.2	1550.5	1550.8	1551.1	1550.8	1550.5	1550.2
162.5°	1571.9	1572.2	1572.5	1573.0	1573.7	1574.5	1575.2	1576.0	1575.2	1574.5	1573.7
165°	1604.1	1604.7	1605.3	1606.0	1606.8	1607.7	1608.6	1609.4	1608.6	1607.7	1606.8
167.5°	1629.8	1629.8	1629.7	1630.3	1631.5	1632.7	1633.9	1635.1	1633.9	1632.7	1631.5
170°	1643.9	1643.6	1643.3	1643.9	1645.3	1646.8	1648.2	1649.6	1648.2	1646.8	1645.3
172.5°	1654.7	1654.7	1654.6	1655.2	1656.4	1657.6	1658.8	1660.0	1658.8	1657.6	1656.4
175°	1667.1	1667.4	1667.6	1668.5	1670.0	1671.4	1672.8	1674.3	1672.8	1671.4	1670.0
177.5°	1673.8	1673.8	1673.8	1674.3	1675.5	1676.6	1677.8	1678.9	1677.8	1676.6	1675.5
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



TEST NUMBER: P333088

CATALOG NUMBER: S124RDIW-S1020D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1684.8	1679.3	1672.1	1663.8	1653.9	1645.0	1641.2	1644.5	1646.1	1641.7	1641.2
5°	1633.6	1616.3	1602.4	1581.7	1565.1	1551.3	1541.6	1537.5	1538.8	1527.8	1525.0
7.5°	1575.9	1555.4	1532.8	1508.1	1485.2	1464.9	1454.2	1448.4	1436.7	1431.7	1423.3
10°	1538.8	1511.2	1489.1	1460.0	1433.8	1409.6	1397.8	1388.1	1376.4	1370.9	1359.1
12.5°	1500.7	1468.6	1444.3	1414.1	1387.3	1358.1	1346.9	1329.0	1310.6	1299.0	1283.9
15°	1446.9	1408.2	1378.5	1342.5	1310.7	1277.5	1247.8	1214.6	1202.2	1175.9	1160.7
17.5°	1384.0	1344.7	1307.9	1259.7	1210.6	1169.4	1137.7	1105.9	1086.9	1070.1	1062.4
20°	1342.5	1306.6	1255.4	1199.4	1144.8	1099.2	1073.6	1052.9	1032.1	1020.4	1012.1
22.5°	1303.2	1257.3	1197.9	1137.5	1082.9	1047.2	1025.5	1004.2	987.3	976.1	965.1
25°	1237.4	1177.3	1114.4	1045.3	1007.9	976.8	953.3	936.0	925.7	911.1	905.6
27.5°	1169.8	1097.0	1027.6	981.1	942.2	913.8	893.3	880.3	867.2	857.9	850.7
30°	1117.8	1043.9	981.7	937.4	898.0	874.5	857.9	842.7	832.3	824.7	819.2
32.5°	1066.4	992.4	940.2	892.6	861.5	838.6	820.9	809.5	801.4	791.5	788.2
35°	992.0	926.3	880.7	837.9	806.1	785.3	771.5	759.7	752.8	750.1	748.0
37.5°	920.5	866.8	817.7	782.6	754.2	737.9	721.6	715.8	711.1	706.1	708.3
40°	875.2	824.7	781.2	743.8	721.0	703.1	693.4	686.5	682.3	682.3	682.3
42.5°	835.9	786.6	744.1	710.7	687.8	672.6	661.9	656.0	654.7	654.1	657.4
45°	775.0	729.3	686.5	658.8	639.5	624.2	618.0	613.2	613.2	616.0	616.6
47.5°	714.5	671.8	637.4	606.4	588.7	579.2	573.8	571.3	571.6	574.3	577.5
50°	677.5	635.3	601.4	573.8	557.2	548.2	543.4	542.0	543.4	543.4	548.2
52.5°	637.1	599.4	566.0	542.8	524.0	515.6	512.9	511.0	511.8	514.1	516.1
55°	577.9	544.1	512.3	490.1	476.3	470.8	464.6	465.2	463.9	465.2	465.2
57.5°	518.6	488.2	458.6	441.1	428.9	420.9	414.1	416.0	414.0	413.7	412.6
60°	480.5	447.3	423.8	407.9	394.0	387.1	380.9	382.3	380.2	378.8	376.1
62.5°	439.0	411.3	388.9	373.6	362.5	354.5	348.3	346.9	342.1	337.4	331.3
65°	378.8	356.0	336.0	321.5	311.1	304.9	300.0	295.9	285.5	274.4	268.9
67.5°	320.4	303.9	285.2	272.9	264.5	256.3	247.1	240.0	230.3	224.3	220.8
70°	282.7	266.8	250.9	239.2	230.2	222.6	212.2	207.4	200.5	197.7	194.3
72.5°	246.8	232.0	217.2	206.6	197.0	191.1	182.9	178.1	175.0	173.9	170.5
75°	192.2	180.4	169.4	159.7	152.1	147.9	144.5	141.0	139.6	133.4	130.0
77.5°	140.2	132.5	125.5	118.6	113.2	110.5	103.8	99.8	97.5	94.6	93.9
80°	109.2	103.7	96.8	92.6	85.0	82.3	79.5	78.8	78.1	77.4	76.7
82.5°	82.1	76.6	69.7	67.2	65.1	63.5	61.8	61.1	60.4	60.8	60.7
85°	41.5	38.7	38.7	38.0	37.3	36.6	35.9	35.9	35.3	35.9	35.3
87.5°	17.1	17.1	17.6	17.0	18.0	18.4	18.2	18.6	19.5	18.7	18.9
90°	16.6	19.3	21.6	23.9	26.2	28.5	30.3	32.0	33.7	35.4	36.6
92.5°	42.3	44.9	46.5	48.1	49.7	51.4	52.4	53.4	54.5	55.5	56.2
95°	88.2	90.5	92.5	94.5	96.5	98.6	99.4	100.3	101.2	102.0	102.5
97.5°	144.2	146.4	148.8	151.2	153.5	155.9	156.9	158.0	159.0	160.0	160.6
100°	186.2	188.0	190.6	193.2	195.8	198.4	199.0	199.6	200.2	200.7	201.0
102.5°	231.1	232.5	234.9	237.3	239.6	242.0	242.8	243.6	244.4	245.2	245.7
105°	303.3	304.0	305.2	306.4	307.5	308.7	309.5	310.4	311.3	312.1	313.0
107.5°	380.1	380.3	380.5	380.7	380.9	381.0	381.8	382.6	383.4	384.3	384.6
110°	432.9	433.0	432.7	432.4	432.2	431.9	431.3	430.7	430.1	429.6	429.7



TEST NUMBER: P333088

CATALOG NUMBER: S124RDIW-S1020D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	485.0	484.8	484.3	483.7	483.2	482.7	482.6	482.5	482.4	482.2	482.3
115°	565.4	565.2	564.6	564.0	563.4	562.8	562.6	562.3	562.0	561.7	561.4
117.5°	642.6	642.5	642.1	641.7	641.3	640.9	639.9	639.0	638.0	637.0	636.2
120°	697.1	697.3	696.4	695.6	694.7	693.8	692.4	691.0	689.5	688.1	687.6
122.5°	747.3	747.3	746.9	746.5	746.1	745.7	744.7	743.7	742.8	741.8	740.8
125°	823.5	823.4	823.1	822.8	822.5	822.2	821.6	821.1	820.5	819.9	819.3
127.5°	897.8	898.0	897.5	897.1	896.6	896.1	895.6	895.0	894.4	893.8	893.3
130°	947.6	948.0	948.0	948.0	948.0	948.0	947.4	946.9	946.3	945.7	944.9
132.5°	997.5	997.7	997.5	997.2	997.0	996.8	996.2	995.6	995.1	994.5	994.0
135°	1069.1	1069.9	1069.9	1069.9	1069.9	1069.9	1069.4	1068.8	1068.2	1067.6	1066.9
137.5°	1138.5	1139.2	1139.6	1140.1	1140.5	1141.0	1140.2	1139.5	1138.8	1138.0	1137.7
140°	1186.4	1186.6	1186.6	1186.6	1186.6	1186.6	1186.4	1186.1	1185.8	1185.5	1185.2
142.5°	1231.0	1231.1	1230.9	1230.7	1230.5	1230.2	1230.2	1230.1	1230.1	1230.0	1229.9
145°	1295.0	1295.7	1296.0	1296.3	1296.6	1296.9	1296.6	1296.3	1296.0	1295.7	1295.2
147.5°	1357.1	1357.7	1357.5	1357.3	1357.0	1356.8	1356.6	1356.3	1356.1	1355.9	1355.6
150°	1393.6	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.0
152.5°	1427.0	1427.5	1427.7	1427.9	1428.2	1428.4	1429.1	1429.8	1430.5	1431.2	1431.1
155°	1478.4	1478.3	1478.0	1477.7	1477.4	1477.2	1478.3	1479.5	1480.6	1481.8	1481.8
157.5°	1522.0	1521.7	1521.7	1521.6	1521.6	1521.5	1522.4	1523.2	1524.1	1525.0	1524.9
160°	1549.9	1549.6	1549.3	1549.1	1548.8	1548.5	1549.3	1550.2	1551.1	1551.9	1551.6
162.5°	1573.0	1572.5	1572.2	1571.9	1571.6	1571.3	1572.9	1574.4	1576.0	1577.5	1577.6
165°	1606.0	1605.3	1604.7	1604.1	1603.5	1602.9	1604.7	1606.4	1608.1	1609.9	1610.2
167.5°	1630.3	1629.7	1629.8	1629.8	1629.9	1629.9	1631.7	1633.4	1635.1	1636.8	1636.8
170°	1643.9	1643.3	1643.6	1643.9	1644.2	1644.4	1646.2	1647.9	1649.6	1651.4	1651.2
172.5°	1655.2	1654.6	1654.7	1654.7	1654.8	1654.8	1656.8	1658.7	1660.7	1662.7	1662.6
175°	1668.5	1667.6	1667.4	1667.1	1666.8	1666.5	1668.5	1670.5	1672.5	1674.6	1674.6
177.5°	1674.3	1673.8	1673.8	1673.8	1673.8	1673.8	1675.4	1677.0	1678.6	1680.2	1680.1
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



TEST NUMBER: P333088

CATALOG NUMBER: S124RDIW-S1020D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1637.8	1638.9	1635.1	1634.0	1635.1	1638.9	1637.8	1641.2	1641.7	1646.1	1644.5
5°	1519.5	1518.1	1514.6	1515.3	1514.6	1518.1	1519.5	1525.0	1527.8	1538.8	1537.5
7.5°	1418.3	1412.9	1414.4	1408.9	1414.4	1412.9	1418.3	1423.3	1431.7	1436.7	1448.4
10°	1356.3	1348.7	1342.5	1337.0	1342.5	1348.7	1356.3	1359.1	1370.9	1376.4	1388.1
12.5°	1271.7	1265.2	1256.8	1258.5	1256.8	1265.2	1271.7	1283.9	1299.0	1310.6	1329.0
15°	1151.7	1141.3	1124.8	1126.8	1124.8	1141.3	1151.7	1160.7	1175.9	1202.2	1214.6
17.5°	1050.1	1050.2	1042.6	1044.4	1042.6	1050.2	1050.1	1062.4	1070.1	1086.9	1105.9
20°	997.6	992.7	993.4	991.3	993.4	992.7	997.6	1012.1	1020.4	1032.1	1052.9
22.5°	961.1	955.1	950.3	946.0	950.3	955.1	961.1	965.1	976.1	987.3	1004.2
25°	899.4	895.2	889.0	887.6	889.0	895.2	899.4	905.6	911.1	925.7	936.0
27.5°	845.2	844.4	841.9	838.7	841.9	844.4	845.2	850.7	857.9	867.2	880.3
30°	813.7	812.3	810.9	808.8	810.9	812.3	813.7	819.2	824.7	832.3	842.7
32.5°	785.5	784.6	783.2	783.4	783.2	784.6	785.5	788.2	791.5	801.4	809.5
35°	745.2	744.5	743.2	742.5	743.2	744.5	745.2	748.0	750.1	752.8	759.7
37.5°	707.6	709.4	708.6	708.4	708.6	709.4	707.6	708.3	706.1	711.1	715.8
40°	681.6	682.3	683.7	683.0	683.7	682.3	681.6	682.3	682.3	682.3	686.5
42.5°	660.1	660.2	662.1	659.8	662.1	660.2	660.1	657.4	654.1	654.7	656.0
45°	621.5	625.6	624.9	624.9	624.9	625.6	621.5	616.6	616.0	613.2	613.2
47.5°	579.3	582.9	583.9	583.7	583.9	582.9	579.3	577.5	574.3	571.6	571.3
50°	551.7	550.3	552.4	551.7	552.4	550.3	551.7	548.2	543.4	543.4	542.0
52.5°	517.9	518.2	518.1	517.4	518.1	518.2	517.9	516.1	514.1	511.8	511.0
55°	465.9	466.6	465.2	465.9	465.2	466.6	465.9	465.2	465.2	463.9	465.2
57.5°	409.5	406.2	407.6	405.9	407.6	406.2	409.5	412.6	413.7	414.0	416.0
60°	369.2	363.6	362.2	359.5	362.2	363.6	369.2	376.1	378.8	380.2	382.3
62.5°	323.8	319.9	315.2	317.4	315.2	319.9	323.8	331.3	337.4	342.1	346.9
65°	263.4	260.6	258.5	261.3	258.5	260.6	263.4	268.9	274.4	285.5	295.9
67.5°	218.0	216.5	216.5	215.1	216.5	216.5	218.0	220.8	224.3	230.3	240.0
70°	194.3	192.2	192.2	190.8	192.2	192.2	194.3	194.3	197.7	200.5	207.4
72.5°	169.9	167.8	168.4	167.6	168.4	167.8	169.9	170.5	173.9	175.0	178.1
75°	125.8	122.4	122.4	123.1	122.4	122.4	125.8	130.0	133.4	139.6	141.0
77.5°	93.9	93.2	94.2	92.9	94.2	93.2	93.9	93.9	94.6	97.5	99.8
80°	76.7	76.0	75.4	77.4	75.4	76.0	76.7	76.7	77.4	78.1	78.8
82.5°	59.6	59.5	59.3	61.9	59.3	59.5	59.6	60.7	60.8	60.4	61.1
85°	35.9	34.6	35.9	34.6	35.9	34.6	35.9	35.3	35.9	35.3	35.9
87.5°	20.2	19.7	19.3	19.9	19.3	19.7	20.2	18.9	18.7	19.5	18.6
90°	37.2	37.8	38.3	38.9	38.3	37.8	37.2	36.6	35.4	33.7	32.0
92.5°	56.5	56.9	57.2	57.6	57.2	56.9	56.5	56.2	55.5	54.5	53.4
95°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.0	101.2	100.3
97.5°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.0	159.0	158.0
100°	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	200.7	200.2	199.6
102.5°	246.0	246.2	246.4	246.7	246.4	246.2	246.0	245.7	245.2	244.4	243.6
105°	313.8	314.7	315.6	316.4	315.6	314.7	313.8	313.0	312.1	311.3	310.4
107.5°	384.6	384.5	384.5	384.4	384.5	384.5	384.6	384.6	384.3	383.4	382.6
110°	430.6	431.4	432.3	433.2	432.3	431.4	430.6	429.7	429.6	430.1	430.7



TEST NUMBER: P333088

CATALOG NUMBER: S124RDIW-S1020D1340U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.4	482.6	482.8	483.0	482.8	482.6	482.4	482.3	482.2	482.4	482.5
115°	561.1	560.8	560.5	560.3	560.5	560.8	561.1	561.4	561.7	562.0	562.3
117.5°	635.6	635.1	634.5	633.9	634.5	635.1	635.6	636.2	637.0	638.0	639.0
120°	688.2	688.8	689.4	689.9	689.4	688.8	688.2	687.6	688.1	689.5	691.0
122.5°	739.7	738.7	737.7	736.6	737.7	738.7	739.7	740.8	741.8	742.8	743.7
125°	818.8	818.2	817.6	817.0	817.6	818.2	818.8	819.3	819.9	820.5	821.1
127.5°	892.9	892.4	891.9	891.5	891.9	892.4	892.9	893.3	893.8	894.4	895.0
130°	943.7	942.5	941.4	940.2	941.4	942.5	943.7	944.9	945.7	946.3	946.9
132.5°	993.5	993.0	992.6	992.1	992.6	993.0	993.5	994.0	994.5	995.1	995.6
135°	1066.0	1065.2	1064.3	1063.4	1064.3	1065.2	1066.0	1066.9	1067.6	1068.2	1068.8
137.5°	1137.9	1138.1	1138.2	1138.4	1138.2	1138.1	1137.9	1137.7	1138.0	1138.8	1139.5
140°	1184.9	1184.6	1184.3	1184.1	1184.3	1184.6	1184.9	1185.2	1185.5	1185.8	1186.1
142.5°	1229.9	1229.8	1229.8	1229.7	1229.8	1229.8	1229.9	1229.9	1230.0	1230.1	1230.1
145°	1294.3	1293.4	1292.6	1291.7	1292.6	1293.4	1294.3	1295.2	1295.7	1296.0	1296.3
147.5°	1355.3	1355.0	1354.8	1354.5	1354.8	1355.0	1355.3	1355.6	1355.9	1356.1	1356.3
150°	1393.7	1393.4	1393.1	1392.9	1393.1	1393.4	1393.7	1394.0	1394.1	1394.1	1394.1
152.5°	1430.4	1429.6	1428.9	1428.1	1428.9	1429.6	1430.4	1431.1	1431.2	1430.5	1429.8
155°	1480.6	1479.5	1478.3	1477.2	1478.3	1479.5	1480.6	1481.8	1481.8	1480.6	1479.5
157.5°	1523.9	1522.9	1522.0	1521.0	1522.0	1522.9	1523.9	1524.9	1525.0	1524.1	1523.2
160°	1550.2	1548.8	1547.3	1545.9	1547.3	1548.8	1550.2	1551.6	1551.9	1551.1	1550.2
162.5°	1576.1	1574.7	1573.3	1571.8	1573.3	1574.7	1576.1	1577.6	1577.5	1576.0	1574.4
165°	1609.0	1607.8	1606.7	1605.5	1606.7	1607.8	1609.0	1610.2	1609.9	1608.1	1606.4
167.5°	1635.0	1633.2	1631.5	1629.7	1631.5	1633.2	1635.0	1636.8	1636.8	1635.1	1633.4
170°	1649.2	1647.2	1645.2	1643.2	1645.2	1647.2	1649.2	1651.2	1651.4	1649.6	1647.9
172.5°	1660.6	1658.6	1656.6	1654.6	1656.6	1658.6	1660.6	1662.6	1662.7	1660.7	1658.7
175°	1672.5	1670.5	1668.5	1666.5	1668.5	1670.5	1672.5	1674.6	1674.6	1672.5	1670.5
177.5°	1678.3	1676.4	1674.6	1672.7	1674.6	1676.4	1678.3	1680.1	1680.2	1678.6	1677.0
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1641.2	1645.0	1653.9	1663.8	1672.1	1679.3	1684.8	1692.6	1699.8	1709.7	1719.1
5°	1541.6	1551.3	1565.1	1581.7	1602.4	1616.3	1633.6	1648.8	1670.9	1693.0	1714.4
7.5°	1454.2	1464.9	1485.2	1508.1	1532.8	1555.4	1575.9	1602.7	1632.0	1664.2	1700.2
10°	1397.8	1409.6	1433.8	1460.0	1489.1	1511.2	1538.8	1570.6	1603.8	1643.2	1687.5
12.5°	1346.9	1358.1	1387.3	1414.1	1444.3	1468.6	1500.7	1533.0	1577.3	1620.0	1670.3
15°	1247.8	1277.5	1310.7	1342.5	1378.5	1408.2	1446.9	1480.1	1522.3	1582.4	1639.8
17.5°	1137.7	1169.4	1210.6	1259.7	1307.9	1344.7	1384.0	1425.2	1475.4	1536.8	1603.0
20°	1073.6	1099.2	1144.8	1199.4	1255.4	1306.6	1342.5	1388.1	1440.0	1506.4	1574.8
22.5°	1025.5	1047.2	1082.9	1137.5	1197.9	1257.3	1303.2	1348.3	1405.7	1472.1	1546.6
25°	953.3	976.8	1007.9	1045.3	1114.4	1177.3	1237.4	1289.3	1350.1	1416.5	1499.4
27.5°	893.3	913.8	942.2	981.1	1027.6	1097.0	1169.8	1229.0	1291.4	1362.6	1445.7
30°	857.9	874.5	898.0	937.4	981.7	1043.9	1117.8	1187.0	1249.9	1323.8	1410.3
32.5°	820.9	838.6	861.5	892.6	940.2	992.4	1066.4	1142.2	1209.0	1284.6	1369.3
35°	771.5	785.3	806.1	837.9	880.7	926.3	992.0	1070.1	1140.7	1221.5	1302.4
37.5°	721.6	737.9	754.2	782.6	817.7	866.8	920.5	1000.3	1078.4	1152.3	1231.2
40°	693.4	703.1	721.0	743.8	781.2	824.7	875.2	953.3	1031.4	1104.7	1184.2
42.5°	661.9	672.6	687.8	710.7	744.1	786.6	835.9	903.5	985.0	1056.0	1128.3
45°	618.0	624.2	639.5	658.8	686.5	729.3	775.0	835.1	911.8	979.6	1043.2
47.5°	573.8	579.2	588.7	606.4	637.4	671.8	714.5	768.5	835.8	903.5	957.3
50°	543.4	548.2	557.2	573.8	601.4	635.3	677.5	725.9	786.0	851.0	895.9
52.5°	512.9	515.6	524.0	542.8	566.0	599.4	637.1	681.6	737.9	791.8	837.3
55°	464.6	470.8	476.3	490.1	512.3	544.1	577.9	620.1	663.7	709.3	748.0
57.5°	414.1	420.9	428.9	441.1	458.6	488.2	518.6	552.8	590.0	627.8	660.3
60°	380.9	387.1	394.0	407.9	423.8	447.3	480.5	510.2	538.5	573.1	605.6
62.5°	348.3	354.5	362.5	373.6	388.9	411.3	439.0	464.8	494.3	524.4	548.6
65°	300.0	304.9	311.1	321.5	336.0	356.0	378.8	398.9	425.2	447.3	469.4
67.5°	247.1	256.3	264.5	272.9	285.2	303.9	320.4	339.6	357.4	373.9	394.0
70°	212.2	222.6	230.2	239.2	250.9	266.8	282.7	295.9	310.4	326.3	344.3
72.5°	182.9	191.1	197.0	206.6	217.2	232.0	246.8	257.7	269.5	280.4	297.8
75°	144.5	147.9	152.1	159.7	169.4	180.4	192.2	201.9	208.8	218.5	230.9
77.5°	103.8	110.5	113.2	118.6	125.5	132.5	140.2	148.4	155.0	158.4	168.0
80°	79.5	82.3	85.0	92.6	96.8	103.7	109.2	116.8	119.6	123.1	132.0
82.5°	61.8	63.5	65.1	67.2	69.7	76.6	82.1	87.0	89.7	91.0	97.8
85°	35.9	36.6	37.3	38.0	38.7	38.7	41.5	44.9	49.8	49.8	51.8
87.5°	18.2	18.4	18.0	17.0	17.6	17.1	17.1	16.5	17.5	18.6	19.6
90°	30.3	28.5	26.2	23.9	21.6	19.3	16.6	13.4	10.2	7.1	3.9
92.5°	52.4	51.4	49.7	48.1	46.5	44.9	42.3	38.6	35.0	31.4	27.8
95°	99.4	98.6	96.5	94.5	92.5	90.5	88.2	85.6	83.0	80.4	77.8
97.5°	156.9	155.9	153.5	151.2	148.8	146.4	144.2	142.1	140.1	138.0	135.9
100°	199.0	198.4	195.8	193.2	190.6	188.0	186.2	185.0	183.9	182.7	181.6
102.5°	242.8	242.0	239.6	237.3	234.9	232.5	231.1	230.7	230.2	229.8	229.3
105°	309.5	308.7	307.5	306.4	305.2	304.0	303.3	303.0	302.8	302.5	302.2
107.5°	381.8	381.0	380.9	380.7	380.5	380.3	380.1	379.7	379.4	379.0	378.7
110°	431.3	431.9	432.2	432.4	432.7	433.0	432.9	432.3	431.7	431.1	430.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	482.6	482.7	483.2	483.7	484.3	484.8	485.0	484.9	484.7	484.6	484.5
115°	562.6	562.8	563.4	564.0	564.6	565.2	565.4	565.4	565.4	565.4	565.4
117.5°	639.9	640.9	641.3	641.7	642.1	642.5	642.6	642.4	642.2	641.9	641.7
120°	692.4	693.8	694.7	695.6	696.4	697.3	697.1	696.0	694.8	693.7	692.5
122.5°	744.7	745.7	746.1	746.5	746.9	747.3	747.3	746.8	746.4	745.9	745.4
125°	821.6	822.2	822.5	822.8	823.1	823.4	823.5	823.5	823.5	823.5	823.5
127.5°	895.6	896.1	896.6	897.1	897.5	898.0	897.8	896.9	896.1	895.2	894.3
130°	947.4	948.0	948.0	948.0	948.0	948.0	947.6	946.7	945.9	945.0	944.1
132.5°	996.2	996.8	997.0	997.2	997.5	997.7	997.5	996.9	996.2	995.6	995.0
135°	1069.4	1069.9	1069.9	1069.9	1069.9	1069.9	1069.1	1067.3	1065.6	1063.9	1062.1
137.5°	1140.2	1141.0	1140.5	1140.1	1139.6	1139.2	1138.5	1137.7	1136.9	1136.1	1135.3
140°	1186.4	1186.6	1186.6	1186.6	1186.6	1186.6	1186.4	1185.8	1185.2	1184.6	1184.1
142.5°	1230.2	1230.2	1230.5	1230.7	1230.9	1231.1	1231.0	1230.4	1229.8	1229.2	1228.7
145°	1296.6	1296.9	1296.6	1296.3	1296.0	1295.7	1295.0	1293.9	1292.7	1291.6	1290.4
147.5°	1356.6	1356.8	1357.0	1357.3	1357.5	1357.7	1357.1	1355.8	1354.4	1353.0	1351.6
150°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1393.6	1392.4	1391.3	1390.1	1389.0
152.5°	1429.1	1428.4	1428.2	1427.9	1427.7	1427.5	1427.0	1426.3	1425.6	1424.9	1424.2
155°	1478.3	1477.2	1477.4	1477.7	1478.0	1478.3	1478.4	1478.4	1478.4	1478.4	1478.4
157.5°	1522.4	1521.5	1521.6	1521.6	1521.7	1521.7	1522.0	1522.5	1523.1	1523.6	1524.1
160°	1549.3	1548.5	1548.8	1549.1	1549.3	1549.6	1549.9	1550.2	1550.5	1550.8	1551.1
162.5°	1572.9	1571.3	1571.6	1571.9	1572.2	1572.5	1573.0	1573.7	1574.5	1575.2	1576.0
165°	1604.7	1602.9	1603.5	1604.1	1604.7	1605.3	1606.0	1606.8	1607.7	1608.6	1609.4
167.5°	1631.7	1629.9	1629.9	1629.8	1629.8	1629.7	1630.3	1631.5	1632.7	1633.9	1635.1
170°	1646.2	1644.4	1644.2	1643.9	1643.6	1643.3	1643.9	1645.3	1646.8	1648.2	1649.6
172.5°	1656.8	1654.8	1654.8	1654.7	1654.7	1654.6	1655.2	1656.4	1657.6	1658.8	1660.0
175°	1668.5	1666.5	1666.8	1667.1	1667.4	1667.6	1668.5	1670.0	1671.4	1672.8	1674.3
177.5°	1675.4	1673.8	1673.8	1673.8	1673.8	1673.8	1674.3	1675.5	1676.6	1677.8	1678.9
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1726.3	1731.3	1736.8	1747.3	1756.2	1760.1	1767.8	1773.3	1771.7	1779.4	1792.7
5°	1733.1	1751.8	1773.2	1795.3	1820.2	1840.9	1857.5	1874.1	1887.3	1903.2	1926.7
7.5°	1732.0	1765.2	1801.3	1840.9	1881.7	1917.0	1949.6	1982.8	2012.2	2044.5	2086.6
10°	1727.6	1771.8	1816.7	1868.6	1920.4	1969.5	2013.8	2055.2	2094.7	2136.8	2190.1
12.5°	1722.6	1773.5	1827.8	1890.2	1954.7	2013.8	2065.8	2125.5	2174.8	2229.2	2290.7
15°	1700.6	1769.0	1843.0	1923.9	2001.3	2080.8	2152.0	2225.3	2293.7	2358.7	2436.2
17.5°	1675.4	1754.4	1841.6	1937.2	2030.2	2126.9	2211.3	2303.7	2373.7	2460.9	2532.8
20°	1655.0	1740.0	1833.3	1940.5	2046.3	2153.4	2246.7	2340.8	2419.6	2507.4	2598.6
22.5°	1630.1	1723.4	1824.5	1935.5	2046.3	2163.4	2266.6	2360.1	2457.7	2556.6	2650.6
25°	1590.0	1686.8	1793.9	1915.6	2042.8	2162.4	2273.0	2389.1	2494.2	2601.4	2685.7
27.5°	1540.8	1642.4	1755.4	1880.9	2011.4	2133.9	2264.2	2387.9	2493.7	2596.8	2670.4
30°	1501.5	1608.7	1717.2	1844.4	1979.9	2111.2	2250.9	2374.6	2485.9	2578.6	2620.0
32.5°	1461.1	1562.8	1674.6	1803.5	1942.3	2083.6	2222.1	2348.6	2451.6	2507.2	2508.3
35°	1390.9	1486.3	1602.4	1729.0	1871.4	2024.8	2165.2	2289.6	2352.5	2357.3	2289.6
37.5°	1314.3	1401.8	1511.5	1638.1	1794.1	1946.7	2090.1	2173.0	2194.1	2123.7	1998.4
40°	1259.6	1340.4	1446.2	1576.2	1731.0	1888.6	2019.3	2080.1	2058.0	1943.9	1804.3
42.5°	1202.0	1277.4	1379.3	1507.6	1663.0	1822.3	1933.6	1966.2	1907.6	1775.8	1612.4
45°	1108.2	1177.3	1278.2	1407.5	1556.8	1706.1	1790.5	1773.9	1676.4	1520.2	1337.0
47.5°	1010.4	1077.2	1168.0	1287.6	1440.5	1569.4	1626.5	1576.5	1437.8	1265.9	1116.9
50°	945.7	1014.1	1097.8	1211.9	1351.5	1475.9	1512.6	1436.5	1282.4	1117.1	980.3
52.5°	882.1	940.6	1022.6	1132.8	1266.3	1371.4	1390.9	1303.2	1144.1	996.0	874.6
55°	785.3	838.6	907.7	1011.4	1126.8	1216.0	1205.6	1093.0	948.5	822.0	726.6
57.5°	691.7	731.8	795.7	892.9	994.2	1054.1	1016.2	920.1	785.5	681.9	601.4
60°	629.8	667.1	726.6	811.6	900.8	934.6	902.8	798.5	692.0	597.3	529.5
62.5°	571.2	604.1	655.2	734.2	806.2	826.2	792.2	701.1	605.2	524.3	468.2
65°	486.0	516.4	560.0	616.0	665.7	675.4	653.3	560.0	487.4	419.6	380.9
67.5°	408.7	428.6	462.6	511.0	537.4	543.1	500.4	441.7	377.7	336.1	306.9
70°	356.7	370.5	402.3	428.6	450.0	450.7	411.3	364.3	315.2	281.4	259.9
72.5°	306.4	319.7	343.7	361.7	378.1	372.8	336.7	299.6	259.9	234.4	218.5
75°	236.4	248.2	260.6	268.9	268.9	262.0	235.7	208.1	185.3	170.1	165.2
77.5°	171.9	181.5	185.7	184.4	182.0	171.2	154.6	136.5	128.3	121.1	117.5
80°	134.8	139.0	140.3	136.9	132.7	120.3	109.2	101.6	94.0	91.3	89.9
82.5°	100.0	103.6	100.0	100.9	91.8	81.6	75.5	72.9	69.7	68.6	67.2
85°	53.2	52.5	51.2	47.7	41.5	40.1	39.4	38.7	37.3	38.0	36.6
87.5°	19.7	18.6	17.1	17.1	17.7	17.0	18.1	18.5	19.0	18.8	20.2
90°	7.1	10.2	13.4	16.6	19.3	21.6	23.9	26.2	28.5	30.3	32.0
92.5°	31.4	35.0	38.6	42.3	44.9	46.5	48.1	49.7	51.4	52.4	53.4
95°	80.4	83.0	85.6	88.2	90.5	92.5	94.5	96.5	98.6	99.4	100.3
97.5°	138.0	140.1	142.1	144.2	146.4	148.8	151.2	153.5	155.9	156.9	158.0
100°	182.7	183.9	185.0	186.2	188.0	190.6	193.2	195.8	198.4	199.0	199.6
102.5°	229.8	230.2	230.7	231.1	232.5	234.9	237.3	239.6	242.0	242.8	243.6
105°	302.5	302.8	303.0	303.3	304.0	305.2	306.4	307.5	308.7	309.5	310.4
107.5°	379.0	379.4	379.7	380.1	380.3	380.5	380.7	380.9	381.0	381.8	382.6
110°	431.1	431.7	432.3	432.9	433.0	432.7	432.4	432.2	431.9	431.3	430.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	484.6	484.7	484.9	485.0	484.8	484.3	483.7	483.2	482.7	482.6	482.5
115°	565.4	565.4	565.4	565.4	565.2	564.6	564.0	563.4	562.8	562.6	562.3
117.5°	641.9	642.2	642.4	642.6	642.5	642.1	641.7	641.3	640.9	639.9	639.0
120°	693.7	694.8	696.0	697.1	697.3	696.4	695.6	694.7	693.8	692.4	691.0
122.5°	745.9	746.4	746.8	747.3	747.3	746.9	746.5	746.1	745.7	744.7	743.7
125°	823.5	823.5	823.5	823.5	823.4	823.1	822.8	822.5	822.2	821.6	821.1
127.5°	895.2	896.1	896.9	897.8	898.0	897.5	897.1	896.6	896.1	895.6	895.0
130°	945.0	945.9	946.7	947.6	948.0	948.0	948.0	948.0	948.0	947.4	946.9
132.5°	995.6	996.2	996.9	997.5	997.7	997.5	997.2	997.0	996.8	996.2	995.6
135°	1063.9	1065.6	1067.3	1069.1	1069.9	1069.9	1069.9	1069.9	1069.9	1069.4	1068.8
137.5°	1136.1	1136.9	1137.7	1138.5	1139.2	1139.6	1140.1	1140.5	1141.0	1140.2	1139.5
140°	1184.6	1185.2	1185.8	1186.4	1186.6	1186.6	1186.6	1186.6	1186.6	1186.4	1186.1
142.5°	1229.2	1229.8	1230.4	1231.0	1231.1	1230.9	1230.7	1230.5	1230.2	1230.2	1230.1
145°	1291.6	1292.7	1293.9	1295.0	1295.7	1296.0	1296.3	1296.6	1296.9	1296.6	1296.3
147.5°	1353.0	1354.4	1355.8	1357.1	1357.7	1357.5	1357.3	1357.0	1356.8	1356.6	1356.3
150°	1390.1	1391.3	1392.4	1393.6	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
152.5°	1424.9	1425.6	1426.3	1427.0	1427.5	1427.7	1427.9	1428.2	1428.4	1429.1	1429.8
155°	1478.4	1478.4	1478.4	1478.4	1478.3	1478.0	1477.7	1477.4	1477.2	1478.3	1479.5
157.5°	1523.6	1523.1	1522.5	1522.0	1521.7	1521.7	1521.6	1521.6	1521.5	1522.4	1523.2
160°	1550.8	1550.5	1550.2	1549.9	1549.6	1549.3	1549.1	1548.8	1548.5	1549.3	1550.2
162.5°	1575.2	1574.5	1573.7	1573.0	1572.5	1572.2	1571.9	1571.6	1571.3	1572.9	1574.4
165°	1608.6	1607.7	1606.8	1606.0	1605.3	1604.7	1604.1	1603.5	1602.9	1604.7	1606.4
167.5°	1633.9	1632.7	1631.5	1630.3	1629.7	1629.8	1629.8	1629.9	1629.9	1631.7	1633.4
170°	1648.2	1646.8	1645.3	1643.9	1643.3	1643.6	1643.9	1644.2	1644.4	1646.2	1647.9
172.5°	1658.8	1657.6	1656.4	1655.2	1654.6	1654.7	1654.7	1654.8	1654.8	1656.8	1658.7
175°	1672.8	1671.4	1670.0	1668.5	1667.6	1667.4	1667.1	1666.8	1666.5	1668.5	1670.5
177.5°	1677.8	1676.6	1675.5	1674.3	1673.8	1673.8	1673.8	1673.8	1673.8	1675.4	1677.0
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1799.9	1802.1	1803.8	1809.3	1809.8	1814.8	1809.8
5°	1948.8	1958.5	1973.7	1988.9	1990.3	1999.9	1982.7
7.5°	2115.8	2138.2	2152.2	2176.8	2186.5	2192.5	2182.6
10°	2230.8	2251.6	2288.2	2306.2	2324.2	2326.9	2318.6
12.5°	2342.0	2374.9	2403.8	2437.8	2437.0	2461.3	2452.5
15°	2490.1	2524.0	2564.0	2602.1	2615.9	2615.9	2627.0
17.5°	2595.7	2657.8	2699.3	2729.1	2761.8	2767.4	2763.6
20°	2667.1	2734.1	2778.4	2817.1	2839.2	2845.4	2845.4
22.5°	2720.1	2777.2	2820.4	2855.2	2873.5	2880.8	2878.6
25°	2756.9	2806.0	2832.3	2842.6	2847.5	2846.1	2833.0
27.5°	2706.6	2704.4	2687.8	2656.0	2632.1	2617.6	2601.0
30°	2610.4	2574.4	2532.9	2487.3	2428.6	2383.6	2369.8
32.5°	2467.1	2386.4	2316.1	2240.1	2176.9	2132.0	2113.2
35°	2190.1	2062.2	1957.8	1866.5	1800.2	1758.7	1744.9
37.5°	1861.3	1737.5	1608.3	1519.8	1464.7	1422.8	1407.2
40°	1652.2	1517.4	1404.7	1321.8	1265.1	1224.3	1223.6
42.5°	1461.4	1332.7	1226.7	1166.9	1105.8	1078.8	1078.7
45°	1196.6	1093.6	1003.8	956.8	920.1	898.0	891.8
47.5°	990.8	905.6	845.7	808.3	778.4	764.3	755.2
50°	875.2	800.5	752.8	720.3	703.7	685.8	684.4
52.5°	779.0	718.7	681.5	655.1	634.1	623.3	623.6
55°	654.7	607.0	580.7	560.6	544.1	535.8	532.3
57.5°	551.5	515.7	496.6	478.2	471.2	464.7	462.9
60°	487.4	463.2	445.2	430.7	420.3	418.2	417.5
62.5°	434.3	409.0	396.5	385.3	377.7	374.5	373.3
65°	358.1	339.4	328.4	319.4	316.6	311.8	311.1
67.5°	288.7	277.5	270.2	263.9	260.2	259.9	259.9
70°	246.1	239.9	233.7	230.2	228.1	226.7	226.7
72.5°	209.6	205.0	199.9	198.1	197.7	196.3	195.8
75°	159.7	154.9	155.5	152.1	149.3	145.9	143.8
77.5°	113.2	109.8	109.1	108.7	106.3	105.9	107.0
80°	87.8	84.3	83.6	84.3	83.6	81.6	81.6
82.5°	66.8	63.9	63.2	62.8	62.1	62.8	61.7
85°	35.9	34.6	34.6	34.6	35.9	35.3	34.6
87.5°	19.5	19.3	20.0	19.6	19.7	19.3	19.9
90°	33.7	35.4	36.6	37.2	37.8	38.3	38.9
92.5°	54.5	55.5	56.2	56.5	56.9	57.2	57.6
95°	101.2	102.0	102.5	102.5	102.5	102.5	102.5
97.5°	159.0	160.0	160.6	160.6	160.6	160.6	160.6
100°	200.2	200.7	201.0	201.0	201.0	201.0	201.0
102.5°	244.4	245.2	245.7	246.0	246.2	246.4	246.7
105°	311.3	312.1	313.0	313.8	314.7	315.6	316.4
107.5°	383.4	384.3	384.6	384.6	384.5	384.5	384.4
110°	430.1	429.6	429.7	430.6	431.4	432.3	433.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	482.4	482.2	482.3	482.4	482.6	482.8	483.0
115°	562.0	561.7	561.4	561.1	560.8	560.5	560.3
117.5°	638.0	637.0	636.2	635.6	635.1	634.5	633.9
120°	689.5	688.1	687.6	688.2	688.8	689.4	689.9
122.5°	742.8	741.8	740.8	739.7	738.7	737.7	736.6
125°	820.5	819.9	819.3	818.8	818.2	817.6	817.0
127.5°	894.4	893.8	893.3	892.9	892.4	891.9	891.5
130°	946.3	945.7	944.9	943.7	942.5	941.4	940.2
132.5°	995.1	994.5	994.0	993.5	993.0	992.6	992.1
135°	1068.2	1067.6	1066.9	1066.0	1065.2	1064.3	1063.4
137.5°	1138.8	1138.0	1137.7	1137.9	1138.1	1138.2	1138.4
140°	1185.8	1185.5	1185.2	1184.9	1184.6	1184.3	1184.1
142.5°	1230.1	1230.0	1229.9	1229.9	1229.8	1229.8	1229.7
145°	1296.0	1295.7	1295.2	1294.3	1293.4	1292.6	1291.7
147.5°	1356.1	1355.9	1355.6	1355.3	1355.0	1354.8	1354.5
150°	1394.1	1394.1	1394.0	1393.7	1393.4	1393.1	1392.9
152.5°	1430.5	1431.2	1431.1	1430.4	1429.6	1428.9	1428.1
155°	1480.6	1481.8	1481.8	1480.6	1479.5	1478.3	1477.2
157.5°	1524.1	1525.0	1524.9	1523.9	1522.9	1522.0	1521.0
160°	1551.1	1551.9	1551.6	1550.2	1548.8	1547.3	1545.9
162.5°	1576.0	1577.5	1577.6	1576.1	1574.7	1573.3	1571.8
165°	1608.1	1609.9	1610.2	1609.0	1607.8	1606.7	1605.5
167.5°	1635.1	1636.8	1636.8	1635.0	1633.2	1631.5	1629.7
170°	1649.6	1651.4	1651.2	1649.2	1647.2	1645.2	1643.2
172.5°	1660.7	1662.7	1662.6	1660.6	1658.6	1656.6	1654.6
175°	1672.5	1674.6	1674.6	1672.5	1670.5	1668.5	1666.5
177.5°	1678.6	1680.2	1680.1	1678.3	1676.4	1674.6	1672.7
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)