

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: P333455-840

Luminaire Tested: **S125DIW-S1090D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333455-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S1090D1560U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9996.9 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

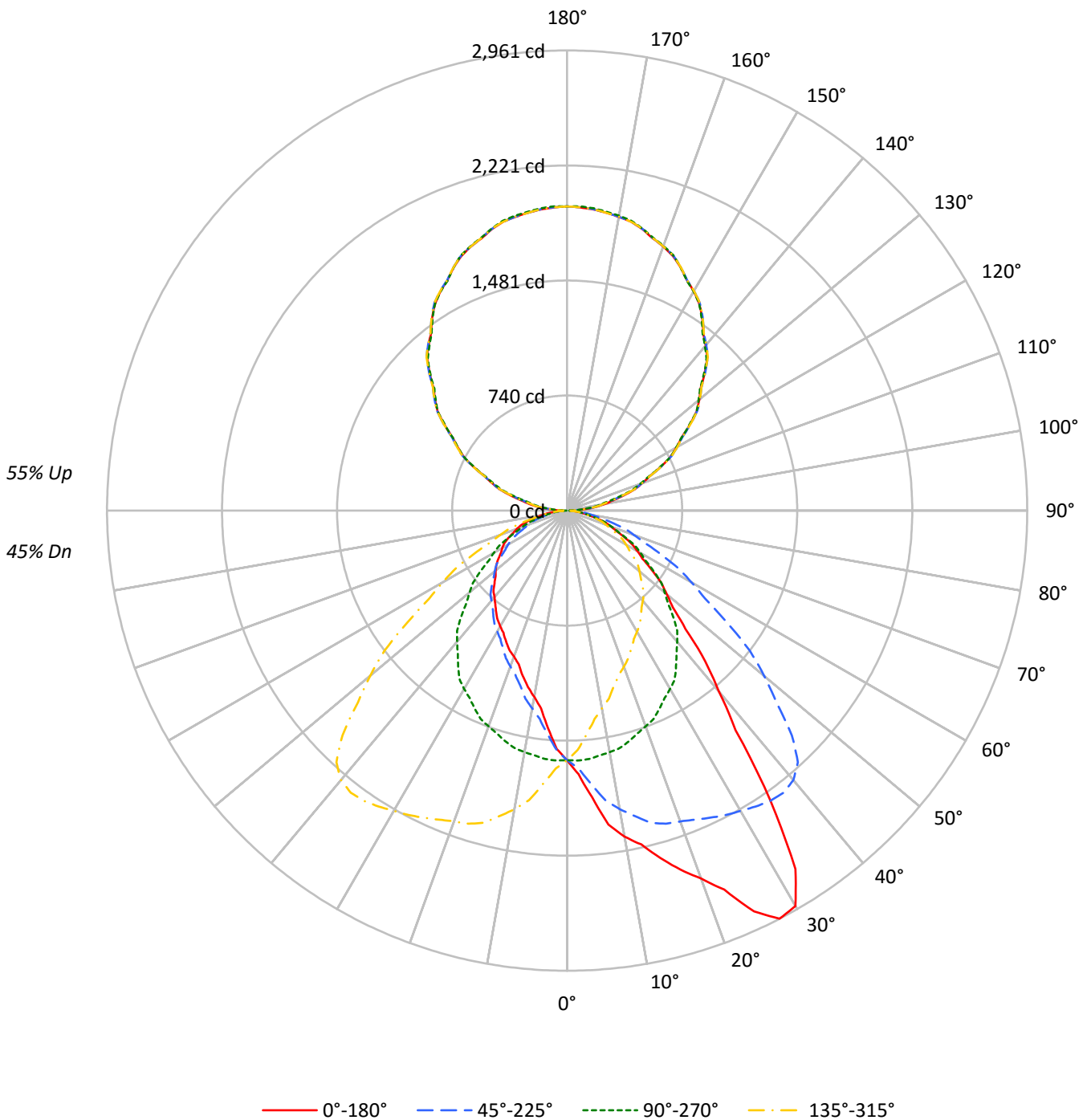
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39
2	88	81	75	70	81	75	70	65	62	59	56	51	49	46	41	39	37	33
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	43	62	52	45	40	44	39	35	36	32	29	29	27	24	21
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10371	10371	10371	10371
5°	12010	10407	9111	10407
10°	13973	10352	7984	10352
15°	15468	10277	7365	10277
20°	17314	10156	6868	10156
25°	20283	10020	6625	10020
30°	21908	9887	6415	9887
35°	18013	9635	6277	9635
40°	12803	9286	6126	9286
45°	9836	8815	6039	8815
50°	8397	8232	6027	8232
55°	7475	7659	6079	7659
60°	6744	7034	6234	7034
65°	6229	6406	6395	6406
70°	5663	5754	6488	5754
75°	5001	5068	6428	5068
80°	4206	4132	5880	4132
85°	3327	2979	4742	2979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.5
10°-20°	460.3	4.6
20°-30°	747.4	7.5
30°-40°	911.7	9.1
40°-50°	829.4	8.3
50°-60°	660.6	6.6
60°-70°	460.1	4.6
70°-80°	245.4	2.5
80°-90°	66.2	0.7
90°-100°	131.1	1.3
100°-110°	387.1	3.9
110°-120°	655.6	6.6
120°-130°	862.9	8.6
130°-140°	966.8	9.7
140°-150°	947.6	9.5
150°-160°	795.9	8.0
160°-170°	529.1	5.3
170°-180°	185.2	1.9
0°-30°	1362.3	13.6
0°-40°	2274.0	22.7
0°-60°	3764.0	37.7
0°-90°	4535.7	45.4
90°-120°	1173.8	11.7
90°-150°	3951.1	39.5
90°-180°	5461.0	54.6
0°-180°	9996.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1853	1605	1405	1605	1853	187
15°	2313	1537	1102	1537	2313	662
25°	2846	1406	930	1406	2846	1300
35°	2285	1222	796	1222	2285	1398
45°	1077	965	661	965	1077	862
55°	664	680	540	680	664	598
65°	408	419	418	419	408	405
75°	200	203	258	203	200	216
85°	45	40	64	40	45	53
90°	37	2	37	2	37	23
95°	131	99	131	99	131	133
105°	378	347	378	347	378	400
115°	663	656	663	656	663	655
125°	964	958	964	958	964	861
135°	1250	1246	1250	1246	1250	965
145°	1515	1509	1515	1509	1515	946
155°	1727	1727	1727	1727	1727	795
165°	1873	1878	1873	1878	1873	528
175°	1945	1953	1945	1953	1945	185
180°	1957	1957	1957	1957	1957	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1698.6	1696.4	1694.3	1689.8	1693.1	1683.8	1679.5	1671.8	1662.5	1659.3	1655.5
5°	1852.6	1856.0	1859.5	1845.1	1846.4	1836.9	1815.1	1797.4	1783.1	1764.6	1751.7
7.5°	2038.0	2029.9	2029.3	2020.0	2004.1	1991.3	1968.3	1939.1	1911.0	1878.8	1852.2
10°	2130.7	2131.4	2125.3	2114.4	2097.3	2085.1	2055.1	2026.4	1991.7	1950.8	1921.5
12.5°	2200.5	2203.3	2195.6	2180.9	2172.5	2145.1	2121.6	2087.5	2046.2	2013.5	1968.9
15°	2313.4	2305.9	2300.5	2282.0	2267.8	2239.1	2201.6	2166.2	2121.1	2079.6	2038.0
17.5°	2422.2	2428.1	2417.9	2401.2	2356.7	2323.3	2273.0	2224.5	2168.5	2112.7	2063.1
20°	2519.2	2524.7	2509.0	2479.7	2426.5	2393.2	2327.0	2264.3	2199.6	2128.0	2073.5
22.5°	2640.3	2635.9	2614.7	2570.2	2524.2	2462.4	2390.9	2314.5	2233.3	2152.5	2080.0
25°	2846.4	2817.7	2804.8	2749.7	2689.0	2598.3	2500.1	2388.3	2287.4	2180.5	2087.8
27.5°	2960.6	2951.6	2937.2	2898.7	2835.0	2738.0	2622.3	2486.1	2343.8	2208.7	2087.4
30°	2937.7	2939.1	2940.4	2928.2	2887.3	2814.4	2699.2	2552.6	2383.6	2231.6	2091.1
32.5°	2734.9	2759.7	2783.4	2811.5	2823.0	2808.9	2736.8	2604.4	2430.4	2257.8	2089.0
35°	2284.7	2292.3	2369.2	2445.6	2549.2	2629.7	2683.5	2624.8	2478.3	2280.0	2086.4
37.5°	1781.5	1818.3	1871.6	1957.8	2107.4	2241.3	2413.5	2492.6	2445.4	2287.2	2081.6
40°	1518.6	1552.7	1587.5	1675.4	1801.5	1963.7	2159.3	2326.3	2365.2	2264.3	2065.3
42.5°	1315.8	1342.8	1381.4	1447.4	1552.9	1696.6	1883.4	2101.6	2235.9	2197.8	2030.9
45°	1076.9	1094.0	1124.0	1176.5	1252.8	1365.2	1530.2	1768.8	1976.7	2045.5	1949.4
47.5°	921.8	921.7	945.0	981.3	1036.3	1131.9	1253.8	1440.8	1662.8	1827.1	1819.5
50°	835.7	832.2	850.6	882.0	925.6	989.1	1105.6	1254.9	1468.1	1654.3	1706.1
52.5°	761.5	761.9	773.3	796.4	832.9	887.1	974.1	1108.7	1291.0	1482.0	1579.5
55°	663.9	661.2	674.1	689.8	716.4	751.8	814.6	917.5	1065.3	1253.4	1380.3
57.5°	574.4	582.0	587.1	598.0	620.2	643.9	696.7	772.2	889.6	1051.1	1185.1
60°	522.1	529.6	533.7	544.6	562.3	582.8	623.7	685.0	783.9	922.9	1055.8
62.5°	475.2	481.1	482.4	492.2	506.8	526.6	558.8	610.4	688.4	810.0	940.2
65°	407.6	407.6	410.3	420.5	427.4	445.0	469.6	507.2	569.9	664.6	775.7
67.5°	342.4	345.7	345.1	349.5	355.8	369.6	387.2	418.1	464.5	533.7	622.6
70°	299.9	302.7	301.9	305.4	312.1	321.0	335.4	364.7	398.1	457.4	533.7
72.5°	261.8	262.9	261.1	265.6	269.6	277.4	293.4	309.0	340.2	390.3	453.0
75°	200.4	201.8	203.1	205.8	210.0	214.0	222.2	237.9	258.3	295.8	336.1
77.5°	150.3	147.6	150.9	150.5	152.8	155.9	163.2	171.5	188.2	212.0	243.1
80°	113.1	113.8	113.8	114.5	118.0	120.0	126.1	132.2	145.2	162.9	184.7
82.5°	82.6	84.4	83.3	84.5	87.4	88.9	92.3	97.4	104.8	118.8	134.5
85°	44.9	41.6	42.9	44.3	44.3	44.9	47.7	49.8	53.8	59.3	65.4
87.5°	20.4	21.3	21.6	21.4	21.8	21.5	23.3	23.0	24.3	25.5	27.3
90°	36.6	35.5	34.5	33.5	32.5	31.1	29.5	27.8	26.1	24.3	22.0
92.5°	71.9	71.1	70.4	69.7	68.9	67.5	65.1	62.9	60.7	58.5	55.5
95°	131.0	130.3	129.7	129.0	128.3	126.7	124.4	122.0	119.7	117.2	113.9
97.5°	198.6	198.2	197.8	197.4	197.0	195.6	193.4	191.2	188.9	186.7	182.1
100°	249.7	249.1	248.4	247.7	247.1	245.2	242.2	239.1	236.1	233.0	228.6
102.5°	300.9	300.0	299.0	298.1	297.2	295.0	291.8	288.4	285.1	281.8	279.5
105°	377.7	376.7	375.7	374.7	373.7	372.1	370.1	368.1	366.1	364.1	361.9
107.5°	456.3	456.4	456.5	456.5	456.6	456.1	455.0	454.0	453.0	452.0	450.5
110°	514.8	515.1	515.4	515.8	516.1	515.8	514.8	513.8	512.7	511.7	510.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	572.1	572.7	573.3	573.9	574.5	574.5	574.1	573.6	573.1	572.7	571.4
115°	662.6	662.9	663.2	663.6	663.9	664.2	664.6	664.9	665.2	665.6	664.9
117.5°	750.8	752.2	753.6	754.9	756.3	756.8	756.6	756.3	756.0	755.8	755.1
120°	811.8	813.1	814.5	815.9	817.2	817.9	817.9	817.9	817.9	817.9	817.5
122.5°	872.7	873.7	874.8	876.0	877.1	877.7	878.0	878.3	878.5	878.8	877.9
125°	964.1	964.4	964.7	965.1	965.4	965.9	966.6	967.3	968.0	968.7	968.4
127.5°	1051.8	1052.5	1053.2	1053.8	1054.5	1055.0	1055.4	1055.7	1056.0	1056.4	1056.0
130°	1110.3	1111.0	1111.7	1112.4	1113.0	1113.5	1113.9	1114.2	1114.5	1114.9	1114.2
132.5°	1165.1	1166.1	1167.0	1168.0	1168.9	1169.5	1169.9	1170.2	1170.5	1170.9	1171.0
135°	1250.4	1251.7	1253.1	1254.5	1255.9	1256.5	1256.5	1256.5	1256.5	1256.5	1256.2
137.5°	1333.8	1335.5	1337.3	1339.0	1340.7	1341.3	1340.9	1340.5	1340.1	1339.7	1338.9
140°	1387.5	1389.2	1390.9	1392.6	1394.2	1394.7	1394.1	1393.4	1392.7	1392.1	1391.1
142.5°	1438.7	1440.4	1442.1	1443.7	1445.4	1446.1	1445.6	1445.2	1444.8	1444.4	1443.2
145°	1515.4	1516.4	1517.4	1518.4	1519.4	1519.9	1519.9	1519.9	1519.9	1519.9	1518.9
147.5°	1580.9	1583.3	1585.5	1587.8	1590.1	1590.8	1590.0	1589.2	1588.4	1587.6	1586.8
150°	1629.6	1630.3	1631.0	1631.6	1632.3	1632.7	1632.7	1632.7	1632.7	1632.7	1631.3
152.5°	1669.9	1671.1	1672.3	1673.5	1674.8	1675.0	1674.2	1673.3	1672.5	1671.7	1671.1
155°	1727.2	1728.8	1730.5	1732.2	1733.9	1734.0	1732.7	1731.3	1730.0	1728.7	1728.3
157.5°	1774.9	1777.2	1779.4	1781.6	1783.9	1784.3	1783.0	1781.6	1780.3	1778.9	1778.6
160°	1807.9	1809.6	1811.2	1812.9	1814.6	1814.8	1813.4	1812.1	1810.7	1809.4	1809.1
162.5°	1835.8	1837.9	1839.8	1841.8	1843.7	1843.9	1842.3	1840.7	1839.1	1837.3	1837.3
165°	1873.3	1875.4	1877.4	1879.5	1881.5	1881.8	1880.5	1879.1	1877.7	1876.4	1876.0
167.5°	1903.2	1905.3	1907.4	1909.5	1911.6	1911.6	1909.6	1907.5	1905.5	1903.5	1903.5
170°	1919.0	1921.4	1923.8	1926.1	1928.5	1928.6	1926.6	1924.6	1922.6	1920.6	1920.6
172.5°	1932.5	1934.5	1936.6	1938.7	1940.9	1940.9	1938.8	1936.8	1934.8	1932.8	1932.8
175°	1944.9	1947.3	1949.6	1952.1	1954.4	1954.6	1952.6	1950.6	1948.4	1946.4	1946.4
177.5°	1952.3	1954.1	1956.0	1957.9	1959.8	1959.9	1958.3	1956.7	1955.1	1953.5	1953.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1652.2	1648.4	1644.1	1636.4	1627.1	1622.2	1614.6	1609.7	1599.8	1591.6	1583.0
5°	1736.1	1718.4	1702.0	1680.8	1657.7	1642.6	1625.0	1605.2	1584.8	1563.6	1540.4
7.5°	1822.9	1791.5	1757.5	1720.8	1685.0	1651.9	1620.4	1589.5	1560.6	1525.7	1496.1
10°	1881.3	1841.7	1799.5	1749.7	1701.3	1659.0	1616.1	1578.6	1540.4	1499.5	1463.4
12.5°	1939.5	1886.9	1827.2	1772.6	1714.3	1663.3	1612.9	1565.0	1517.0	1471.8	1429.6
15°	1980.7	1934.4	1879.2	1801.5	1736.1	1665.9	1599.0	1537.0	1479.0	1428.7	1375.5
17.5°	2007.9	1948.1	1888.9	1814.3	1728.6	1650.0	1574.4	1503.4	1438.0	1374.1	1322.8
20°	2012.8	1951.5	1889.5	1816.4	1728.6	1638.6	1563.0	1477.7	1407.5	1341.4	1278.7
22.5°	2011.1	1941.7	1874.1	1799.1	1713.3	1630.4	1538.9	1452.1	1375.9	1310.9	1245.5
25°	1995.8	1921.5	1836.9	1761.3	1676.8	1588.8	1496.1	1406.1	1328.5	1254.2	1189.4
27.5°	1983.0	1886.5	1790.9	1702.6	1621.0	1540.4	1451.7	1359.6	1273.3	1198.1	1137.1
30°	1967.1	1861.5	1753.7	1661.7	1577.9	1499.5	1415.7	1325.8	1235.8	1162.2	1096.7
32.5°	1953.0	1829.9	1716.2	1616.0	1527.2	1451.0	1373.7	1288.1	1199.7	1125.1	1059.7
35°	1925.5	1783.1	1652.9	1539.7	1445.0	1366.7	1301.9	1222.1	1141.0	1068.7	1006.0
37.5°	1890.8	1721.7	1582.1	1463.4	1359.6	1277.0	1216.7	1155.5	1077.6	1007.9	951.3
40°	1863.5	1678.1	1530.2	1408.9	1301.2	1215.3	1159.4	1101.5	1036.7	972.0	912.0
42.5°	1829.2	1638.9	1477.8	1347.3	1240.6	1157.0	1098.3	1049.1	992.0	931.6	876.0
45°	1766.1	1567.7	1393.2	1252.8	1145.1	1062.6	1002.0	965.1	922.2	864.9	817.9
47.5°	1673.2	1482.2	1301.7	1156.8	1045.7	969.3	912.4	877.1	846.9	804.3	761.6
50°	1590.8	1418.5	1235.8	1092.0	980.9	903.8	851.3	819.3	793.3	760.6	724.6
52.5°	1498.7	1338.3	1170.8	1028.6	918.7	842.7	791.3	763.2	741.5	718.1	682.6
55°	1352.3	1216.0	1060.6	925.6	824.0	749.7	704.8	680.2	662.6	644.8	623.0
57.5°	1191.0	1084.4	946.7	823.3	729.8	662.3	620.3	596.4	582.6	573.5	560.7
60°	1077.6	986.3	867.7	755.2	663.9	603.9	563.0	544.6	533.0	525.5	515.9
62.5°	972.4	897.4	787.5	684.9	605.0	548.3	511.8	493.9	482.8	479.2	471.3
65°	817.3	759.3	668.6	583.5	515.3	466.9	436.3	419.2	412.3	408.3	409.0
67.5°	664.4	629.1	556.3	483.6	429.3	388.7	364.2	351.0	347.6	342.1	342.0
70°	571.2	544.6	483.2	419.9	371.4	340.1	318.3	304.7	301.2	298.5	297.9
72.5°	488.9	465.5	412.3	361.5	318.0	290.5	272.5	264.3	258.7	257.1	257.0
75°	367.4	354.5	312.1	272.0	242.0	222.9	210.7	203.1	199.0	198.3	199.0
77.5°	261.2	249.8	223.0	194.5	175.6	161.2	150.8	148.1	143.5	143.7	143.0
80°	196.3	188.8	171.8	149.3	133.6	121.3	115.8	111.1	109.8	107.7	109.8
82.5°	142.3	134.3	122.7	108.4	95.4	88.1	82.6	81.1	80.3	79.4	79.8
85°	70.2	70.9	64.0	53.1	47.7	43.6	40.2	40.2	39.5	38.9	39.5
87.5°	27.9	26.4	23.7	21.5	18.3	16.2	15.0	15.0	13.9	13.9	15.0
90°	19.6	17.3	14.8	12.3	9.7	7.0	4.2	1.5	4.2	7.0	9.7
92.5°	52.6	49.8	46.9	44.4	42.5	40.7	38.8	36.9	38.8	40.7	42.5
95°	110.5	107.1	103.7	101.7	101.0	100.4	99.7	99.0	99.7	100.4	101.0
97.5°	177.4	172.7	168.0	165.6	165.3	165.0	164.7	164.5	164.7	165.0	165.3
100°	224.2	219.8	215.4	213.2	213.2	213.2	213.2	213.2	213.2	213.2	213.2
102.5°	277.3	275.1	272.9	271.0	269.6	268.3	267.0	265.6	267.0	268.3	269.6
105°	359.9	357.9	355.9	354.1	352.3	350.6	348.9	347.3	348.9	350.6	352.3
107.5°	448.9	447.4	445.9	444.1	442.5	440.8	439.1	437.4	439.1	440.8	442.5
110°	509.7	508.7	507.7	506.3	504.6	502.9	501.3	499.6	501.3	502.9	504.6



TEST NUMBER: P333455-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	570.1	568.8	567.5	566.4	565.5	564.7	563.8	562.9	563.8	564.7	565.5
115°	664.2	663.6	662.9	661.9	660.5	659.1	657.8	656.4	657.8	659.1	660.5
117.5°	754.5	753.9	753.3	752.7	752.0	751.4	750.8	750.2	750.8	751.4	752.0
120°	817.2	816.9	816.5	815.5	813.9	812.1	810.4	808.7	810.4	812.1	813.9
122.5°	877.1	876.2	875.3	874.5	873.9	873.3	872.7	872.1	872.7	873.3	873.9
125°	968.0	967.7	967.3	966.1	964.1	962.1	960.0	958.0	960.0	962.1	964.1
127.5°	1055.6	1055.2	1054.8	1054.0	1052.8	1051.7	1050.6	1049.4	1050.6	1051.7	1052.8
130°	1113.5	1112.9	1112.2	1111.0	1109.2	1107.6	1105.9	1104.2	1105.9	1107.6	1109.2
132.5°	1171.1	1171.3	1171.4	1170.1	1167.4	1164.6	1161.8	1159.0	1161.8	1164.6	1167.4
135°	1255.9	1255.5	1255.2	1253.9	1251.9	1249.9	1247.9	1245.9	1247.9	1249.9	1251.9
137.5°	1338.2	1337.5	1336.7	1335.3	1333.3	1331.4	1329.5	1327.5	1329.5	1331.4	1333.3
140°	1390.1	1389.0	1388.0	1386.6	1384.9	1383.2	1381.6	1379.9	1381.6	1383.2	1384.9
142.5°	1441.9	1440.6	1439.3	1437.9	1436.5	1435.1	1433.7	1432.3	1433.7	1435.1	1436.5
145°	1517.9	1516.9	1515.9	1514.8	1513.4	1512.1	1510.7	1509.3	1510.7	1512.1	1513.4
147.5°	1586.0	1585.2	1584.4	1583.6	1582.9	1582.1	1581.3	1580.6	1581.3	1582.1	1582.9
150°	1630.0	1628.6	1627.3	1626.8	1627.1	1627.5	1627.8	1628.1	1627.8	1627.5	1627.1
152.5°	1670.6	1670.1	1669.5	1669.0	1668.5	1668.1	1667.6	1667.1	1667.6	1668.1	1668.5
155°	1728.0	1727.7	1727.3	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2
157.5°	1778.3	1777.9	1777.6	1777.8	1778.5	1779.3	1780.0	1780.7	1780.0	1779.3	1778.5
160°	1808.7	1808.4	1808.1	1808.4	1809.4	1810.4	1811.4	1812.4	1811.4	1810.4	1809.4
162.5°	1837.2	1837.1	1837.1	1837.4	1838.3	1839.0	1839.7	1840.5	1839.7	1839.0	1838.3
165°	1875.7	1875.4	1875.0	1875.2	1875.9	1876.5	1877.2	1877.9	1877.2	1876.5	1875.9
167.5°	1903.5	1903.5	1903.5	1904.2	1905.5	1906.9	1908.2	1909.6	1908.2	1906.9	1905.5
170°	1920.6	1920.6	1920.6	1921.3	1922.6	1923.9	1925.3	1926.6	1925.3	1923.9	1922.6
172.5°	1932.8	1932.8	1932.8	1933.4	1934.8	1936.1	1937.5	1938.8	1937.5	1936.1	1934.8
175°	1946.4	1946.4	1946.4	1947.1	1948.4	1949.8	1951.2	1952.6	1951.2	1949.8	1948.4
177.5°	1954.0	1954.3	1954.5	1955.2	1956.3	1957.4	1958.4	1959.5	1958.4	1957.4	1956.3
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1578.0	1572.1	1567.1	1556.2	1550.2	1542.1	1535.5	1542.6	1535.0	1538.2	1533.4
5°	1528.8	1509.7	1496.1	1476.3	1459.4	1443.6	1432.1	1430.0	1424.5	1421.8	1413.6
7.5°	1469.7	1445.8	1422.4	1396.4	1374.6	1352.4	1338.3	1326.6	1318.8	1308.6	1301.6
10°	1434.8	1402.7	1375.5	1344.1	1316.9	1293.0	1273.9	1264.4	1255.6	1242.5	1237.8
12.5°	1391.7	1358.6	1325.3	1291.8	1265.6	1239.0	1222.6	1208.2	1202.0	1187.5	1186.0
15°	1340.1	1290.3	1257.6	1223.5	1187.4	1165.6	1152.0	1136.2	1129.4	1119.2	1111.7
17.5°	1278.4	1234.0	1193.1	1157.8	1126.8	1108.4	1091.6	1080.8	1069.0	1062.4	1050.1
20°	1233.8	1191.4	1150.5	1113.1	1089.2	1068.0	1054.4	1044.2	1032.0	1028.5	1016.3
22.5°	1196.1	1149.4	1110.2	1078.7	1052.7	1028.9	1014.1	1007.1	998.7	988.2	985.7
25°	1134.9	1086.5	1053.1	1021.8	998.6	976.7	966.5	957.7	949.5	942.0	939.3
27.5°	1082.0	1038.7	999.1	970.8	950.6	930.7	921.7	910.9	904.9	898.9	891.5
30°	1044.9	1000.6	965.8	938.6	916.8	899.1	889.5	882.0	876.6	871.1	867.0
32.5°	1006.7	965.7	932.0	905.3	883.5	870.1	861.7	856.4	850.4	843.8	838.7
35°	956.3	911.3	878.6	855.5	838.4	828.2	818.6	813.9	807.0	807.0	801.5
37.5°	899.5	860.6	831.7	810.6	795.3	786.2	775.8	772.5	768.2	765.3	763.4
40°	865.7	829.5	802.2	781.1	764.8	757.3	749.1	743.7	740.9	737.5	736.1
42.5°	830.7	796.3	770.1	750.6	736.4	730.0	722.4	718.5	713.1	708.6	707.8
45°	777.7	744.3	720.4	704.8	692.5	685.0	680.2	672.1	669.3	663.9	663.2
47.5°	727.4	695.4	672.0	659.1	648.3	642.2	634.7	626.5	623.4	620.7	620.4
50°	689.8	660.5	638.6	626.4	616.2	607.3	599.9	594.4	592.3	592.3	593.7
52.5°	651.7	626.6	608.1	593.1	583.5	574.0	567.1	563.8	560.7	564.0	566.4
55°	595.7	570.5	556.8	542.6	533.0	522.1	518.7	517.4	515.3	520.8	523.5
57.5°	536.5	518.9	502.9	488.7	480.1	473.8	469.2	468.4	472.2	474.8	483.6
60°	499.0	478.5	464.1	453.2	443.0	439.0	437.6	436.3	439.0	446.5	458.1
62.5°	457.5	440.9	425.5	417.3	409.8	402.9	402.7	403.5	409.0	417.6	429.1
65°	396.7	382.3	372.1	362.6	356.5	352.3	353.8	356.5	362.6	374.2	387.2
67.5°	335.0	325.2	316.0	308.2	302.4	302.4	303.8	307.8	315.1	328.4	340.2
70°	295.2	284.3	276.7	273.4	268.5	265.8	269.9	276.7	282.9	295.2	305.4
72.5°	255.3	246.1	240.2	237.9	235.8	233.7	235.0	242.4	250.6	263.0	274.8
75°	196.3	192.9	188.8	186.1	184.0	185.4	186.7	193.6	200.4	213.4	227.0
77.5°	143.3	139.8	137.2	136.6	135.5	136.2	140.0	145.0	151.7	161.2	171.5
80°	108.4	107.0	105.6	104.9	104.9	105.6	111.1	114.5	120.7	129.5	137.6
82.5°	79.0	78.1	77.9	77.7	78.3	78.4	81.7	86.1	91.2	97.9	104.9
85°	41.6	40.2	42.2	42.9	41.6	43.6	44.9	47.7	49.8	53.1	56.6
87.5°	16.1	17.7	17.7	18.7	19.1	20.7	20.5	23.0	24.4	25.9	25.5
90°	12.3	14.8	17.3	19.6	22.0	24.3	26.1	27.8	29.5	31.1	32.5
92.5°	44.4	46.9	49.8	52.6	55.5	58.5	60.7	62.9	65.1	67.5	68.9
95°	101.7	103.7	107.1	110.5	113.9	117.2	119.7	122.0	124.4	126.7	128.3
97.5°	165.6	168.0	172.7	177.4	182.1	186.7	188.9	191.2	193.4	195.6	197.0
100°	213.2	215.4	219.8	224.2	228.6	233.0	236.1	239.1	242.2	245.2	247.1
102.5°	271.0	272.9	275.1	277.3	279.5	281.8	285.1	288.4	291.8	295.0	297.2
105°	354.1	355.9	357.9	359.9	361.9	364.1	366.1	368.1	370.1	372.1	373.7
107.5°	444.1	445.9	447.4	448.9	450.5	452.0	453.0	454.0	455.0	456.1	456.6
110°	506.3	507.7	508.7	509.7	510.7	511.7	512.7	513.8	514.8	515.8	516.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	566.4	567.5	568.8	570.1	571.4	572.7	573.1	573.6	574.1	574.5	574.5
115°	661.9	662.9	663.6	664.2	664.9	665.6	665.2	664.9	664.6	664.2	663.9
117.5°	752.7	753.3	753.9	754.5	755.1	755.8	756.0	756.3	756.6	756.8	756.3
120°	815.5	816.5	816.9	817.2	817.5	817.9	817.9	817.9	817.9	817.9	817.2
122.5°	874.5	875.3	876.2	877.1	877.9	878.8	878.5	878.3	878.0	877.7	877.1
125°	966.1	967.3	967.7	968.0	968.4	968.7	968.0	967.3	966.6	965.9	965.4
127.5°	1054.0	1054.8	1055.2	1055.6	1056.0	1056.4	1056.0	1055.7	1055.4	1055.0	1054.5
130°	1111.0	1112.2	1112.9	1113.5	1114.2	1114.9	1114.5	1114.2	1113.9	1113.5	1113.0
132.5°	1170.1	1171.4	1171.3	1171.1	1171.0	1170.9	1170.5	1170.2	1169.9	1169.5	1168.9
135°	1253.9	1255.2	1255.5	1255.9	1256.2	1256.5	1256.5	1256.5	1256.5	1256.5	1255.9
137.5°	1335.3	1336.7	1337.5	1338.2	1338.9	1339.7	1340.1	1340.5	1340.9	1341.3	1340.7
140°	1386.6	1388.0	1389.0	1390.1	1391.1	1392.1	1392.7	1393.4	1394.1	1394.7	1394.2
142.5°	1437.9	1439.3	1440.6	1441.9	1443.2	1444.4	1444.8	1445.2	1445.6	1446.1	1445.4
145°	1514.8	1515.9	1516.9	1517.9	1518.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.4
147.5°	1583.6	1584.4	1585.2	1586.0	1586.8	1587.6	1588.4	1589.2	1590.0	1590.8	1590.1
150°	1626.8	1627.3	1628.6	1630.0	1631.3	1632.7	1632.7	1632.7	1632.7	1632.7	1632.3
152.5°	1669.0	1669.5	1670.1	1670.6	1671.1	1671.7	1672.5	1673.3	1674.2	1675.0	1674.8
155°	1727.2	1727.3	1727.7	1728.0	1728.3	1728.7	1730.0	1731.3	1732.7	1734.0	1733.9
157.5°	1777.8	1777.6	1777.9	1778.3	1778.6	1778.9	1780.3	1781.6	1783.0	1784.3	1783.9
160°	1808.4	1808.1	1808.4	1808.7	1809.1	1809.4	1810.7	1812.1	1813.4	1814.8	1814.6
162.5°	1837.4	1837.1	1837.1	1837.2	1837.3	1837.3	1839.1	1840.7	1842.3	1843.9	1843.7
165°	1875.2	1875.0	1875.4	1875.7	1876.0	1876.4	1877.7	1879.1	1880.5	1881.8	1881.5
167.5°	1904.2	1903.5	1903.5	1903.5	1903.5	1903.5	1905.5	1907.5	1909.6	1911.6	1911.6
170°	1921.3	1920.6	1920.6	1920.6	1920.6	1920.6	1922.6	1924.6	1926.6	1928.6	1928.5
172.5°	1933.4	1932.8	1932.8	1932.8	1932.8	1932.8	1934.8	1936.8	1938.8	1940.9	1940.9
175°	1947.1	1946.4	1946.4	1946.4	1946.4	1946.4	1948.4	1950.6	1952.6	1954.6	1954.4
177.5°	1955.2	1954.5	1954.3	1954.0	1953.7	1953.5	1955.1	1956.7	1958.3	1959.9	1959.8
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1530.0	1533.9	1530.7	1535.0	1530.7	1533.9	1530.0	1533.4	1538.2	1535.0	1542.6
5°	1410.3	1404.1	1408.2	1405.4	1408.2	1404.1	1410.3	1413.6	1421.8	1424.5	1430.0
7.5°	1299.6	1293.7	1287.0	1283.8	1287.0	1293.7	1299.6	1301.6	1308.6	1318.8	1326.6
10°	1230.3	1222.8	1222.1	1217.4	1222.1	1222.8	1230.3	1237.8	1242.5	1255.6	1264.4
12.5°	1179.6	1172.7	1164.9	1162.9	1164.9	1172.7	1179.6	1186.0	1187.5	1202.0	1208.2
15°	1107.6	1102.2	1097.4	1101.5	1097.4	1102.2	1107.6	1111.7	1119.2	1129.4	1136.2
17.5°	1047.7	1043.3	1042.5	1037.4	1042.5	1043.3	1047.7	1050.1	1062.4	1069.0	1080.8
20°	1010.2	1006.7	1008.1	999.3	1008.1	1006.7	1010.2	1016.3	1028.5	1032.0	1044.2
22.5°	980.2	973.5	972.7	970.9	972.7	973.5	980.2	985.7	988.2	998.7	1007.1
25°	933.1	929.7	926.3	929.7	926.3	929.7	933.1	939.3	942.0	949.5	957.7
27.5°	892.1	888.0	887.1	887.5	887.1	888.0	892.1	891.5	898.9	904.9	910.9
30°	867.0	860.2	860.9	860.2	860.9	860.2	867.0	867.0	871.1	876.6	882.0
32.5°	839.7	835.1	834.1	832.9	834.1	835.1	839.7	838.7	843.8	850.4	856.4
35°	799.5	799.5	796.1	796.1	796.1	799.5	799.5	801.5	807.0	807.0	813.9
37.5°	761.7	761.0	759.0	759.3	759.0	761.0	761.7	763.4	765.3	768.2	772.5
40°	733.4	732.8	730.6	726.6	730.6	732.8	733.4	736.1	737.5	740.9	743.7
42.5°	706.1	703.9	702.9	701.6	702.9	703.9	706.1	707.8	708.6	713.1	718.5
45°	663.2	663.2	661.9	661.2	661.9	663.2	663.2	663.2	663.9	669.3	672.1
47.5°	621.5	622.7	625.3	624.9	625.3	622.7	621.5	620.4	620.7	623.4	626.5
50°	596.4	597.1	599.2	599.9	599.2	597.1	596.4	593.7	592.3	592.3	594.4
52.5°	568.6	572.6	575.1	574.7	575.1	572.6	568.6	566.4	564.0	560.7	563.8
55°	529.6	534.4	539.2	539.9	539.2	534.4	529.6	523.5	520.8	515.3	517.4
57.5°	491.0	497.7	502.7	504.4	502.7	497.7	491.0	483.6	474.8	472.2	468.4
60°	464.8	473.7	479.9	482.6	479.9	473.7	464.8	458.1	446.5	439.0	436.3
62.5°	439.8	449.7	455.9	456.4	455.9	449.7	439.8	429.1	417.6	409.0	403.5
65°	398.7	409.0	414.4	418.5	414.4	409.0	398.7	387.2	374.2	362.6	356.5
67.5°	354.6	364.8	370.8	374.1	370.8	364.8	354.6	340.2	328.4	315.1	307.8
70°	322.4	332.6	340.8	343.6	340.8	332.6	322.4	305.4	295.2	282.9	276.7
72.5°	290.7	299.9	306.5	309.7	306.5	299.9	290.7	274.8	263.0	250.6	242.4
75°	235.8	248.1	254.3	257.6	254.3	248.1	235.8	227.0	213.4	200.4	193.6
77.5°	181.9	193.0	196.7	198.4	196.7	193.0	181.9	171.5	161.2	151.7	145.0
80°	145.8	152.7	157.4	158.1	157.4	152.7	145.8	137.6	129.5	120.7	114.5
82.5°	112.1	117.8	119.3	121.1	119.3	117.8	112.1	104.9	97.9	91.2	86.1
85°	61.3	64.0	64.7	64.0	64.7	64.0	61.3	56.6	53.1	49.8	47.7
87.5°	26.9	26.6	26.8	28.1	26.8	26.6	26.9	25.5	25.9	24.4	23.0
90°	33.5	34.5	35.5	36.6	35.5	34.5	33.5	32.5	31.1	29.5	27.8
92.5°	69.7	70.4	71.1	71.9	71.1	70.4	69.7	68.9	67.5	65.1	62.9
95°	129.0	129.7	130.3	131.0	130.3	129.7	129.0	128.3	126.7	124.4	122.0
97.5°	197.4	197.8	198.2	198.6	198.2	197.8	197.4	197.0	195.6	193.4	191.2
100°	247.7	248.4	249.1	249.7	249.1	248.4	247.7	247.1	245.2	242.2	239.1
102.5°	298.1	299.0	300.0	300.9	300.0	299.0	298.1	297.2	295.0	291.8	288.4
105°	374.7	375.7	376.7	377.7	376.7	375.7	374.7	373.7	372.1	370.1	368.1
107.5°	456.5	456.5	456.4	456.3	456.4	456.5	456.5	456.6	456.1	455.0	454.0
110°	515.8	515.4	515.1	514.8	515.1	515.4	515.8	516.1	515.8	514.8	513.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	573.9	573.3	572.7	572.1	572.7	573.3	573.9	574.5	574.5	574.1	573.6
115°	663.6	663.2	662.9	662.6	662.9	663.2	663.6	663.9	664.2	664.6	664.9
117.5°	754.9	753.6	752.2	750.8	752.2	753.6	754.9	756.3	756.8	756.6	756.3
120°	815.9	814.5	813.1	811.8	813.1	814.5	815.9	817.2	817.9	817.9	817.9
122.5°	876.0	874.8	873.7	872.7	873.7	874.8	876.0	877.1	877.7	878.0	878.3
125°	965.1	964.7	964.4	964.1	964.4	964.7	965.1	965.4	965.9	966.6	967.3
127.5°	1053.8	1053.2	1052.5	1051.8	1052.5	1053.2	1053.8	1054.5	1055.0	1055.4	1055.7
130°	1112.4	1111.7	1111.0	1110.3	1111.0	1111.7	1112.4	1113.0	1113.5	1113.9	1114.2
132.5°	1168.0	1167.0	1166.1	1165.1	1166.1	1167.0	1168.0	1168.9	1169.5	1169.9	1170.2
135°	1254.5	1253.1	1251.7	1250.4	1251.7	1253.1	1254.5	1255.9	1256.5	1256.5	1256.5
137.5°	1339.0	1337.3	1335.5	1333.8	1335.5	1337.3	1339.0	1340.7	1341.3	1340.9	1340.5
140°	1392.6	1390.9	1389.2	1387.5	1389.2	1390.9	1392.6	1394.2	1394.7	1394.1	1393.4
142.5°	1443.7	1442.1	1440.4	1438.7	1440.4	1442.1	1443.7	1445.4	1446.1	1445.6	1445.2
145°	1518.4	1517.4	1516.4	1515.4	1516.4	1517.4	1518.4	1519.4	1519.9	1519.9	1519.9
147.5°	1587.8	1585.5	1583.3	1580.9	1583.3	1585.5	1587.8	1590.1	1590.8	1590.0	1589.2
150°	1631.6	1631.0	1630.3	1629.6	1630.3	1631.0	1631.6	1632.3	1632.7	1632.7	1632.7
152.5°	1673.5	1672.3	1671.1	1669.9	1671.1	1672.3	1673.5	1674.8	1675.0	1674.2	1673.3
155°	1732.2	1730.5	1728.8	1727.2	1728.8	1730.5	1732.2	1733.9	1734.0	1732.7	1731.3
157.5°	1781.6	1779.4	1777.2	1774.9	1777.2	1779.4	1781.6	1783.9	1784.3	1783.0	1781.6
160°	1812.9	1811.2	1809.6	1807.9	1809.6	1811.2	1812.9	1814.6	1814.8	1813.4	1812.1
162.5°	1841.8	1839.8	1837.9	1835.8	1837.9	1839.8	1841.8	1843.7	1843.9	1842.3	1840.7
165°	1879.5	1877.4	1875.4	1873.3	1875.4	1877.4	1879.5	1881.5	1881.8	1880.5	1879.1
167.5°	1909.5	1907.4	1905.3	1903.2	1905.3	1907.4	1909.5	1911.6	1911.6	1909.6	1907.5
170°	1926.1	1923.8	1921.4	1919.0	1921.4	1923.8	1926.1	1928.5	1928.6	1926.6	1924.6
172.5°	1938.7	1936.6	1934.5	1932.5	1934.5	1936.6	1938.7	1940.9	1940.9	1938.8	1936.8
175°	1952.1	1949.6	1947.3	1944.9	1947.3	1949.6	1952.1	1954.4	1954.6	1952.6	1950.6
177.5°	1957.9	1956.0	1954.1	1952.3	1954.1	1956.0	1957.9	1959.8	1959.9	1958.3	1956.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1535.5	1542.1	1550.2	1556.2	1567.1	1572.1	1578.0	1583.0	1591.6	1599.8	1609.7
5°	1432.1	1443.6	1459.4	1476.3	1496.1	1509.7	1528.8	1540.4	1563.6	1584.8	1605.2
7.5°	1338.3	1352.4	1374.6	1396.4	1422.4	1445.8	1469.7	1496.1	1525.7	1560.6	1589.5
10°	1273.9	1293.0	1316.9	1344.1	1375.5	1402.7	1434.8	1463.4	1499.5	1540.4	1578.6
12.5°	1222.6	1239.0	1265.6	1291.8	1325.3	1358.6	1391.7	1429.6	1471.8	1517.0	1565.0
15°	1152.0	1165.6	1187.4	1223.5	1257.6	1290.3	1340.1	1375.5	1428.7	1479.0	1537.0
17.5°	1091.6	1108.4	1126.8	1157.8	1193.1	1234.0	1278.4	1322.8	1374.1	1438.0	1503.4
20°	1054.4	1068.0	1089.2	1113.1	1150.5	1191.4	1233.8	1278.7	1341.4	1407.5	1477.7
22.5°	1014.1	1028.9	1052.7	1078.7	1110.2	1149.4	1196.1	1245.5	1310.9	1375.9	1452.1
25°	966.5	976.7	998.6	1021.8	1053.1	1086.5	1134.9	1189.4	1254.2	1328.5	1406.1
27.5°	921.7	930.7	950.6	970.8	999.1	1038.7	1082.0	1137.1	1198.1	1273.3	1359.6
30°	889.5	899.1	916.8	938.6	965.8	1000.6	1044.9	1096.7	1162.2	1235.8	1325.8
32.5°	861.7	870.1	883.5	905.3	932.0	965.7	1006.7	1059.7	1125.1	1199.7	1288.1
35°	818.6	828.2	838.4	855.5	878.6	911.3	956.3	1006.0	1068.7	1141.0	1222.1
37.5°	775.8	786.2	795.3	810.6	831.7	860.6	899.5	951.3	1007.9	1077.6	1155.5
40°	749.1	757.3	764.8	781.1	802.2	829.5	865.7	912.0	972.0	1036.7	1101.5
42.5°	722.4	730.0	736.4	750.6	770.1	796.3	830.7	876.0	931.6	992.0	1049.1
45°	680.2	685.0	692.5	704.8	720.4	744.3	777.7	817.9	864.9	922.2	965.1
47.5°	634.7	642.2	648.3	659.1	672.0	695.4	727.4	761.6	804.3	846.9	877.1
50°	599.9	607.3	616.2	626.4	638.6	660.5	689.8	724.6	760.6	793.3	819.3
52.5°	567.1	574.0	583.5	593.1	608.1	626.6	651.7	682.6	718.1	741.5	763.2
55°	518.7	522.1	533.0	542.6	556.8	570.5	595.7	623.0	644.8	662.6	680.2
57.5°	469.2	473.8	480.1	488.7	502.9	518.9	536.5	560.7	573.5	582.6	596.4
60°	437.6	439.0	443.0	453.2	464.1	478.5	499.0	515.9	525.5	533.0	544.6
62.5°	402.7	402.9	409.8	417.3	425.5	440.9	457.5	471.3	479.2	482.8	493.9
65°	353.8	352.3	356.5	362.6	372.1	382.3	396.7	409.0	408.3	412.3	419.2
67.5°	303.8	302.4	302.4	308.2	316.0	325.2	335.0	342.0	342.1	347.6	351.0
70°	269.9	265.8	268.5	273.4	276.7	284.3	295.2	297.9	298.5	301.2	304.7
72.5°	235.0	233.7	235.8	237.9	240.2	246.1	255.3	257.0	257.1	258.7	264.3
75°	186.7	185.4	184.0	186.1	188.8	192.9	196.3	199.0	198.3	199.0	203.1
77.5°	140.0	136.2	135.5	136.6	137.2	139.8	143.3	143.0	143.7	143.5	148.1
80°	111.1	105.6	104.9	104.9	105.6	107.0	108.4	109.8	107.7	109.8	111.1
82.5°	81.7	78.4	78.3	77.7	77.9	78.1	79.0	79.8	79.4	80.3	81.1
85°	44.9	43.6	41.6	42.9	42.2	40.2	41.6	39.5	38.9	39.5	40.2
87.5°	20.5	20.7	19.1	18.7	17.7	17.7	16.1	15.0	13.9	13.9	15.0
90°	26.1	24.3	22.0	19.6	17.3	14.8	12.3	9.7	7.0	4.2	1.5
92.5°	60.7	58.5	55.5	52.6	49.8	46.9	44.4	42.5	40.7	38.8	36.9
95°	119.7	117.2	113.9	110.5	107.1	103.7	101.7	101.0	100.4	99.7	99.0
97.5°	188.9	186.7	182.1	177.4	172.7	168.0	165.6	165.3	165.0	164.7	164.5
100°	236.1	233.0	228.6	224.2	219.8	215.4	213.2	213.2	213.2	213.2	213.2
102.5°	285.1	281.8	279.5	277.3	275.1	272.9	271.0	269.6	268.3	267.0	265.6
105°	366.1	364.1	361.9	359.9	357.9	355.9	354.1	352.3	350.6	348.9	347.3
107.5°	453.0	452.0	450.5	448.9	447.4	445.9	444.1	442.5	440.8	439.1	437.4
110°	512.7	511.7	510.7	509.7	508.7	507.7	506.3	504.6	502.9	501.3	499.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	573.1	572.7	571.4	570.1	568.8	567.5	566.4	565.5	564.7	563.8	562.9
115°	665.2	665.6	664.9	664.2	663.6	662.9	661.9	660.5	659.1	657.8	656.4
117.5°	756.0	755.8	755.1	754.5	753.9	753.3	752.7	752.0	751.4	750.8	750.2
120°	817.9	817.9	817.5	817.2	816.9	816.5	815.5	813.9	812.1	810.4	808.7
122.5°	878.5	878.8	877.9	877.1	876.2	875.3	874.5	873.9	873.3	872.7	872.1
125°	968.0	968.7	968.4	968.0	967.7	967.3	966.1	964.1	962.1	960.0	958.0
127.5°	1056.0	1056.4	1056.0	1055.6	1055.2	1054.8	1054.0	1052.8	1051.7	1050.6	1049.4
130°	1114.5	1114.9	1114.2	1113.5	1112.9	1112.2	1111.0	1109.2	1107.6	1105.9	1104.2
132.5°	1170.5	1170.9	1171.0	1171.1	1171.3	1171.4	1170.1	1167.4	1164.6	1161.8	1159.0
135°	1256.5	1256.5	1256.2	1255.9	1255.5	1255.2	1253.9	1251.9	1249.9	1247.9	1245.9
137.5°	1340.1	1339.7	1338.9	1338.2	1337.5	1336.7	1335.3	1333.3	1331.4	1329.5	1327.5
140°	1392.7	1392.1	1391.1	1390.1	1389.0	1388.0	1386.6	1384.9	1383.2	1381.6	1379.9
142.5°	1444.8	1444.4	1443.2	1441.9	1440.6	1439.3	1437.9	1436.5	1435.1	1433.7	1432.3
145°	1519.9	1519.9	1518.9	1517.9	1516.9	1515.9	1514.8	1513.4	1512.1	1510.7	1509.3
147.5°	1588.4	1587.6	1586.8	1586.0	1585.2	1584.4	1583.6	1582.9	1582.1	1581.3	1580.6
150°	1632.7	1632.7	1631.3	1630.0	1628.6	1627.3	1626.8	1627.1	1627.5	1627.8	1628.1
152.5°	1672.5	1671.7	1671.1	1670.6	1670.1	1669.5	1669.0	1668.5	1668.1	1667.6	1667.1
155°	1730.0	1728.7	1728.3	1728.0	1727.7	1727.3	1727.2	1727.2	1727.2	1727.2	1727.2
157.5°	1780.3	1778.9	1778.6	1778.3	1777.9	1777.6	1777.8	1778.5	1779.3	1780.0	1780.7
160°	1810.7	1809.4	1809.1	1808.7	1808.4	1808.1	1808.4	1809.4	1810.4	1811.4	1812.4
162.5°	1839.1	1837.3	1837.3	1837.2	1837.1	1837.1	1837.4	1838.3	1839.0	1839.7	1840.5
165°	1877.7	1876.4	1876.0	1875.7	1875.4	1875.0	1875.2	1875.9	1876.5	1877.2	1877.9
167.5°	1905.5	1903.5	1903.5	1903.5	1903.5	1903.5	1904.2	1905.5	1906.9	1908.2	1909.6
170°	1922.6	1920.6	1920.6	1920.6	1920.6	1920.6	1921.3	1922.6	1923.9	1925.3	1926.6
172.5°	1934.8	1932.8	1932.8	1932.8	1932.8	1932.8	1933.4	1934.8	1936.1	1937.5	1938.8
175°	1948.4	1946.4	1946.4	1946.4	1946.4	1946.4	1947.1	1948.4	1949.8	1951.2	1952.6
177.5°	1955.1	1953.5	1953.7	1954.0	1954.3	1954.5	1955.2	1956.3	1957.4	1958.4	1959.5
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1614.6	1622.2	1627.1	1636.4	1644.1	1648.4	1652.2	1655.5	1659.3	1662.5	1671.8
5°	1625.0	1642.6	1657.7	1680.8	1702.0	1718.4	1736.1	1751.7	1764.6	1783.1	1797.4
7.5°	1620.4	1651.9	1685.0	1720.8	1757.5	1791.5	1822.9	1852.2	1878.8	1911.0	1939.1
10°	1616.1	1659.0	1701.3	1749.7	1799.5	1841.7	1881.3	1921.5	1950.8	1991.7	2026.4
12.5°	1612.9	1663.3	1714.3	1772.6	1827.2	1886.9	1939.5	1968.9	2013.5	2046.2	2087.5
15°	1599.0	1665.9	1736.1	1801.5	1879.2	1934.4	1980.7	2038.0	2079.6	2121.1	2166.2
17.5°	1574.4	1650.0	1728.6	1814.3	1888.9	1948.1	2007.9	2063.1	2112.7	2168.5	2224.5
20°	1563.0	1638.6	1728.6	1816.4	1889.5	1951.5	2012.8	2073.5	2128.0	2199.6	2264.3
22.5°	1538.9	1630.4	1713.3	1799.1	1874.1	1941.7	2011.1	2080.0	2152.5	2233.3	2314.5
25°	1496.1	1588.8	1676.8	1761.3	1836.9	1921.5	1995.8	2087.8	2180.5	2287.4	2388.3
27.5°	1451.7	1540.4	1621.0	1702.6	1790.9	1886.5	1983.0	2087.4	2208.7	2343.8	2486.1
30°	1415.7	1499.5	1577.9	1661.7	1753.7	1861.5	1967.1	2091.1	2231.6	2383.6	2552.6
32.5°	1373.7	1451.0	1527.2	1616.0	1716.2	1829.9	1953.0	2089.0	2257.8	2430.4	2604.4
35°	1301.9	1366.7	1445.0	1539.7	1652.9	1783.1	1925.5	2086.4	2280.0	2478.3	2624.8
37.5°	1216.7	1277.0	1359.6	1463.4	1582.1	1721.7	1890.8	2081.6	2287.2	2445.4	2492.6
40°	1159.4	1215.3	1301.2	1408.9	1530.2	1678.1	1863.5	2065.3	2264.3	2365.2	2326.3
42.5°	1098.3	1157.0	1240.6	1347.3	1477.8	1638.9	1829.2	2030.9	2197.8	2235.9	2101.6
45°	1002.0	1062.6	1145.1	1252.8	1393.2	1567.7	1766.1	1949.4	2045.5	1976.7	1768.8
47.5°	912.4	969.3	1045.7	1156.8	1301.7	1482.2	1673.2	1819.5	1827.1	1662.8	1440.8
50°	851.3	903.8	980.9	1092.0	1235.8	1418.5	1590.8	1706.1	1654.3	1468.1	1254.9
52.5°	791.3	842.7	918.7	1028.6	1170.8	1338.3	1498.7	1579.5	1482.0	1291.0	1108.7
55°	704.8	749.7	824.0	925.6	1060.6	1216.0	1352.3	1380.3	1253.4	1065.3	917.5
57.5°	620.3	662.3	729.8	823.3	946.7	1084.4	1191.0	1185.1	1051.1	889.6	772.2
60°	563.0	603.9	663.9	755.2	867.7	986.3	1077.6	1055.8	922.9	783.9	685.0
62.5°	511.8	548.3	605.0	684.9	787.5	897.4	972.4	940.2	810.0	688.4	610.4
65°	436.3	466.9	515.3	583.5	668.6	759.3	817.3	775.7	664.6	569.9	507.2
67.5°	364.2	388.7	429.3	483.6	556.3	629.1	664.4	622.6	533.7	464.5	418.1
70°	318.3	340.1	371.4	419.9	483.2	544.6	571.2	533.7	457.4	398.1	364.7
72.5°	272.5	290.5	318.0	361.5	412.3	465.5	488.9	453.0	390.3	340.2	309.0
75°	210.7	222.9	242.0	272.0	312.1	354.5	367.4	336.1	295.8	258.3	237.9
77.5°	150.8	161.2	175.6	194.5	223.0	249.8	261.2	243.1	212.0	188.2	171.5
80°	115.8	121.3	133.6	149.3	171.8	188.8	196.3	184.7	162.9	145.2	132.2
82.5°	82.6	88.1	95.4	108.4	122.7	134.3	142.3	134.5	118.8	104.8	97.4
85°	40.2	43.6	47.7	53.1	64.0	70.9	70.2	65.4	59.3	53.8	49.8
87.5°	15.0	16.2	18.3	21.5	23.7	26.4	27.9	27.3	25.5	24.3	23.0
90°	4.2	7.0	9.7	12.3	14.8	17.3	19.6	22.0	24.3	26.1	27.8
92.5°	38.8	40.7	42.5	44.4	46.9	49.8	52.6	55.5	58.5	60.7	62.9
95°	99.7	100.4	101.0	101.7	103.7	107.1	110.5	113.9	117.2	119.7	122.0
97.5°	164.7	165.0	165.3	165.6	168.0	172.7	177.4	182.1	186.7	188.9	191.2
100°	213.2	213.2	213.2	213.2	215.4	219.8	224.2	228.6	233.0	236.1	239.1
102.5°	267.0	268.3	269.6	271.0	272.9	275.1	277.3	279.5	281.8	285.1	288.4
105°	348.9	350.6	352.3	354.1	355.9	357.9	359.9	361.9	364.1	366.1	368.1
107.5°	439.1	440.8	442.5	444.1	445.9	447.4	448.9	450.5	452.0	453.0	454.0
110°	501.3	502.9	504.6	506.3	507.7	508.7	509.7	510.7	511.7	512.7	513.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.8	564.7	565.5	566.4	567.5	568.8	570.1	571.4	572.7	573.1	573.6
115°	657.8	659.1	660.5	661.9	662.9	663.6	664.2	664.9	665.6	665.2	664.9
117.5°	750.8	751.4	752.0	752.7	753.3	753.9	754.5	755.1	755.8	756.0	756.3
120°	810.4	812.1	813.9	815.5	816.5	816.9	817.2	817.5	817.9	817.9	817.9
122.5°	872.7	873.3	873.9	874.5	875.3	876.2	877.1	877.9	878.8	878.5	878.3
125°	960.0	962.1	964.1	966.1	967.3	967.7	968.0	968.4	968.7	968.0	967.3
127.5°	1050.6	1051.7	1052.8	1054.0	1054.8	1055.2	1055.6	1056.0	1056.4	1056.0	1055.7
130°	1105.9	1107.6	1109.2	1111.0	1112.2	1112.9	1113.5	1114.2	1114.9	1114.5	1114.2
132.5°	1161.8	1164.6	1167.4	1170.1	1171.4	1171.3	1171.1	1171.0	1170.9	1170.5	1170.2
135°	1247.9	1249.9	1251.9	1253.9	1255.2	1255.5	1255.9	1256.2	1256.5	1256.5	1256.5
137.5°	1329.5	1331.4	1333.3	1335.3	1336.7	1337.5	1338.2	1338.9	1339.7	1340.1	1340.5
140°	1381.6	1383.2	1384.9	1386.6	1388.0	1389.0	1390.1	1391.1	1392.1	1392.7	1393.4
142.5°	1433.7	1435.1	1436.5	1437.9	1439.3	1440.6	1441.9	1443.2	1444.4	1444.8	1445.2
145°	1510.7	1512.1	1513.4	1514.8	1515.9	1516.9	1517.9	1518.9	1519.9	1519.9	1519.9
147.5°	1581.3	1582.1	1582.9	1583.6	1584.4	1585.2	1586.0	1586.8	1587.6	1588.4	1589.2
150°	1627.8	1627.5	1627.1	1626.8	1627.3	1628.6	1630.0	1631.3	1632.7	1632.7	1632.7
152.5°	1667.6	1668.1	1668.5	1669.0	1669.5	1670.1	1670.6	1671.1	1671.7	1672.5	1673.3
155°	1727.2	1727.2	1727.2	1727.2	1727.3	1727.7	1728.0	1728.3	1728.7	1730.0	1731.3
157.5°	1780.0	1779.3	1778.5	1777.8	1777.6	1777.9	1778.3	1778.6	1778.9	1780.3	1781.6
160°	1811.4	1810.4	1809.4	1808.4	1808.1	1808.4	1808.7	1809.1	1809.4	1810.7	1812.1
162.5°	1839.7	1839.0	1838.3	1837.4	1837.1	1837.1	1837.2	1837.3	1837.3	1839.1	1840.7
165°	1877.2	1876.5	1875.9	1875.2	1875.0	1875.4	1875.7	1876.0	1876.4	1877.7	1879.1
167.5°	1908.2	1906.9	1905.5	1904.2	1903.5	1903.5	1903.5	1903.5	1903.5	1905.5	1907.5
170°	1925.3	1923.9	1922.6	1921.3	1920.6	1920.6	1920.6	1920.6	1920.6	1922.6	1924.6
172.5°	1937.5	1936.1	1934.8	1933.4	1932.8	1932.8	1932.8	1932.8	1932.8	1934.8	1936.8
175°	1951.2	1949.8	1948.4	1947.1	1946.4	1946.4	1946.4	1946.4	1946.4	1948.4	1950.6
177.5°	1958.4	1957.4	1956.3	1955.2	1954.5	1954.3	1954.0	1953.7	1953.5	1955.1	1956.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1679.5	1683.8	1693.1	1689.8	1694.3	1696.4	1698.6
5°	1815.1	1836.9	1846.4	1845.1	1859.5	1856.0	1852.6
7.5°	1968.3	1991.3	2004.1	2020.0	2029.3	2029.9	2038.0
10°	2055.1	2085.1	2097.3	2114.4	2125.3	2131.4	2130.7
12.5°	2121.6	2145.1	2172.5	2180.9	2195.6	2203.3	2200.5
15°	2201.6	2239.1	2267.8	2282.0	2300.5	2305.9	2313.4
17.5°	2273.0	2323.3	2356.7	2401.2	2417.9	2428.1	2422.2
20°	2327.0	2393.2	2426.5	2479.7	2509.0	2524.7	2519.2
22.5°	2390.9	2462.4	2524.2	2570.2	2614.7	2635.9	2640.3
25°	2500.1	2598.3	2689.0	2749.7	2804.8	2817.7	2846.4
27.5°	2622.3	2738.0	2835.0	2898.7	2937.2	2951.6	2960.6
30°	2699.2	2814.4	2887.3	2928.2	2940.4	2939.1	2937.7
32.5°	2736.8	2808.9	2823.0	2811.5	2783.4	2759.7	2734.9
35°	2683.5	2629.7	2549.2	2445.6	2369.2	2292.3	2284.7
37.5°	2413.5	2241.3	2107.4	1957.8	1871.6	1818.3	1781.5
40°	2159.3	1963.7	1801.5	1675.4	1587.5	1552.7	1518.6
42.5°	1883.4	1696.6	1552.9	1447.4	1381.4	1342.8	1315.8
45°	1530.2	1365.2	1252.8	1176.5	1124.0	1094.0	1076.9
47.5°	1253.8	1131.9	1036.3	981.3	945.0	921.7	921.8
50°	1105.6	989.1	925.6	882.0	850.6	832.2	835.7
52.5°	974.1	887.1	832.9	796.4	773.3	761.9	761.5
55°	814.6	751.8	716.4	689.8	674.1	661.2	663.9
57.5°	696.7	643.9	620.2	598.0	587.1	582.0	574.4
60°	623.7	582.8	562.3	544.6	533.7	529.6	522.1
62.5°	558.8	526.6	506.8	492.2	482.4	481.1	475.2
65°	469.6	445.0	427.4	420.5	410.3	407.6	407.6
67.5°	387.2	369.6	355.8	349.5	345.1	345.7	342.4
70°	335.4	321.0	312.1	305.4	301.9	302.7	299.9
72.5°	293.4	277.4	269.6	265.6	261.1	262.9	261.8
75°	222.2	214.0	210.0	205.8	203.1	201.8	200.4
77.5°	163.2	155.9	152.8	150.5	150.9	147.6	150.3
80°	126.1	120.0	118.0	114.5	113.8	113.8	113.1
82.5°	92.3	88.9	87.4	84.5	83.3	84.4	82.6
85°	47.7	44.9	44.3	44.3	42.9	41.6	44.9
87.5°	23.3	21.5	21.8	21.4	21.6	21.3	20.4
90°	29.5	31.1	32.5	33.5	34.5	35.5	36.6
92.5°	65.1	67.5	68.9	69.7	70.4	71.1	71.9
95°	124.4	126.7	128.3	129.0	129.7	130.3	131.0
97.5°	193.4	195.6	197.0	197.4	197.8	198.2	198.6
100°	242.2	245.2	247.1	247.7	248.4	249.1	249.7
102.5°	291.8	295.0	297.2	298.1	299.0	300.0	300.9
105°	370.1	372.1	373.7	374.7	375.7	376.7	377.7
107.5°	455.0	456.1	456.6	456.5	456.5	456.4	456.3
110°	514.8	515.8	516.1	515.8	515.4	515.1	514.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	574.1	574.5	574.5	573.9	573.3	572.7	572.1
115°	664.6	664.2	663.9	663.6	663.2	662.9	662.6
117.5°	756.6	756.8	756.3	754.9	753.6	752.2	750.8
120°	817.9	817.9	817.2	815.9	814.5	813.1	811.8
122.5°	878.0	877.7	877.1	876.0	874.8	873.7	872.7
125°	966.6	965.9	965.4	965.1	964.7	964.4	964.1
127.5°	1055.4	1055.0	1054.5	1053.8	1053.2	1052.5	1051.8
130°	1113.9	1113.5	1113.0	1112.4	1111.7	1111.0	1110.3
132.5°	1169.9	1169.5	1168.9	1168.0	1167.0	1166.1	1165.1
135°	1256.5	1256.5	1255.9	1254.5	1253.1	1251.7	1250.4
137.5°	1340.9	1341.3	1340.7	1339.0	1337.3	1335.5	1333.8
140°	1394.1	1394.7	1394.2	1392.6	1390.9	1389.2	1387.5
142.5°	1445.6	1446.1	1445.4	1443.7	1442.1	1440.4	1438.7
145°	1519.9	1519.9	1519.4	1518.4	1517.4	1516.4	1515.4
147.5°	1590.0	1590.8	1590.1	1587.8	1585.5	1583.3	1580.9
150°	1632.7	1632.7	1632.3	1631.6	1631.0	1630.3	1629.6
152.5°	1674.2	1675.0	1674.8	1673.5	1672.3	1671.1	1669.9
155°	1732.7	1734.0	1733.9	1732.2	1730.5	1728.8	1727.2
157.5°	1783.0	1784.3	1783.9	1781.6	1779.4	1777.2	1774.9
160°	1813.4	1814.8	1814.6	1812.9	1811.2	1809.6	1807.9
162.5°	1842.3	1843.9	1843.7	1841.8	1839.8	1837.9	1835.8
165°	1880.5	1881.8	1881.5	1879.5	1877.4	1875.4	1873.3
167.5°	1909.6	1911.6	1911.6	1909.5	1907.4	1905.3	1903.2
170°	1926.6	1928.6	1928.5	1926.1	1923.8	1921.4	1919.0
172.5°	1938.8	1940.9	1940.9	1938.7	1936.6	1934.5	1932.5
175°	1952.6	1954.6	1954.4	1952.1	1949.6	1947.3	1944.9
177.5°	1958.3	1959.9	1959.8	1957.9	1956.0	1954.1	1952.3
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1

(END OF REPORT)