

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: P332447

Luminaire Tested: **S123RDIW-S775D1535U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332447
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S775D1535U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8369.4 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

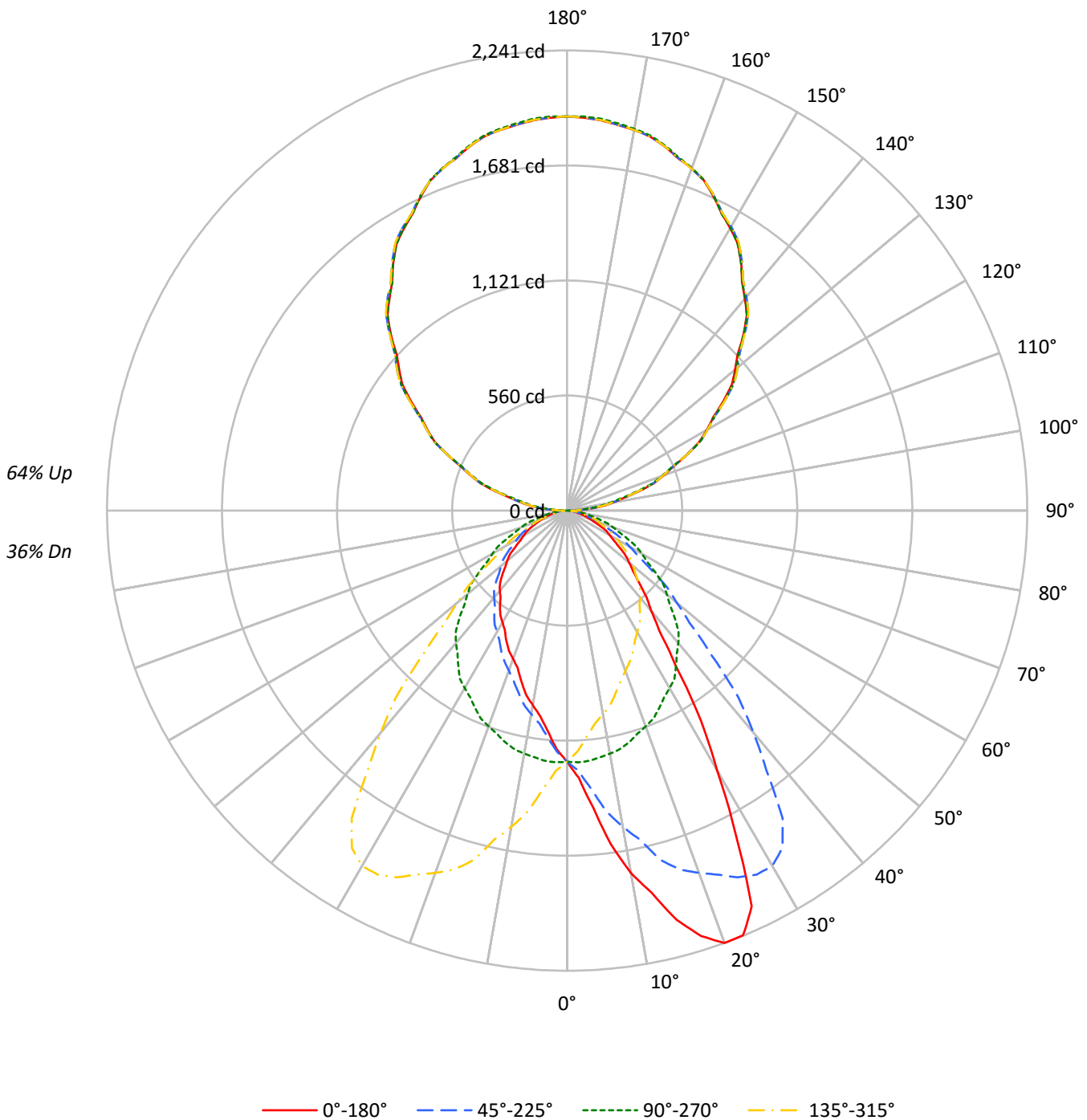
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36																												
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	38	38	32																												
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27																												
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	31	30	28	23																												
4	73	63	55	50	66	57	51	46	47	42	38	37	34	31	28	26	24	20																												
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	23	22	18																												
6	62	50	43	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16																												
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17	14																												
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13																												
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12																												
10	46	34	28	23	42	32	26	21	27	22	18	22	18	16	17	14	13	11																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13164	13164	13164	13164
5°	15692	13220	11642	13220
10°	19593	13144	10518	13144
15°	22998	13010	9591	13010
20°	25668	12810	8804	12810
25°	25258	12598	8320	12598
30°	18155	12403	7822	12403
35°	12122	12150	7499	12150
40°	8931	11844	7165	11844
45°	7491	11309	6838	11309
50°	6611	10608	6382	10608
55°	5797	9805	5758	9805
60°	5162	9040	5274	9040
65°	4534	8214	4908	8214
70°	3559	7481	4482	7481
75°	3136	6534	4092	6534
80°	2727	5548	4023	5548
85°	2198	4458	4273	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	1.4
10°-20°	375.7	4.5
20°-30°	590.3	7.1
30°-40°	615.9	7.4
40°-50°	527.1	6.3
50°-60°	401.7	4.8
60°-70°	257.5	3.1
70°-80°	123.9	1.5
80°-90°	38.5	0.5
90°-100°	125.1	1.5
100°-110°	374.3	4.5
110°-120°	636.6	7.6
120°-130°	837.4	10.0
130°-140°	941.2	11.2
140°-150°	925.2	11.1
150°-160°	778.9	9.3
160°-170°	518.5	6.2
170°-180°	181.6	2.2
0°-30°	1086.3	13.0
0°-40°	1702.2	20.3
0°-60°	2631.0	31.4
0°-90°	3050.8	36.5
90°-120°	1136.0	13.6
90°-150°	3839.7	45.9
90°-180°	5319.0	63.6
0°-180°	8369.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1223	1223	1223	1223	1223	
5°	1452	1224	1078	1224	1452	150
15°	2064	1168	861	1168	2064	585
25°	2127	1061	700	1061	2127	914
35°	922	925	571	925	922	605
45°	492	743	449	743	492	387
55°	309	522	307	522	309	279
65°	178	322	193	322	178	175
75°	75	157	98	157	75	81
85°	18	36	35	36	18	22
90°	45	2	45	2	45	23
95°	118	89	118	89	118	121
105°	359	339	359	339	359	381
115°	642	641	642	641	642	636
125°	927	938	927	938	927	829
135°	1215	1217	1215	1217	1215	934
145°	1476	1476	1476	1476	1476	921
155°	1687	1690	1687	1690	1687	777
165°	1835	1841	1835	1841	1835	518
175°	1908	1915	1908	1915	1908	181
180°	1920	1920	1920	1920	1920	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1302.6	1304.3	1298.8	1298.0	1291.7	1290.0	1290.0	1281.2	1275.8	1268.7	1264.5
5°	1452.3	1460.7	1456.5	1447.1	1431.4	1427.7	1417.8	1402.1	1384.3	1362.3	1351.8
7.5°	1639.3	1650.8	1646.4	1631.8	1615.4	1602.1	1574.0	1547.9	1511.4	1479.3	1451.9
10°	1792.6	1780.6	1771.2	1757.0	1741.9	1717.2	1687.9	1647.6	1601.0	1564.4	1523.5
12.5°	1907.4	1905.4	1893.5	1878.9	1857.5	1834.1	1798.1	1749.0	1694.8	1641.9	1595.2
15°	2063.8	2067.0	2059.1	2043.9	2013.6	1972.2	1917.8	1897.3	1819.9	1762.3	1704.7
17.5°	2172.1	2171.5	2170.4	2149.4	2118.4	2089.0	2038.5	1984.8	1914.6	1833.5	1755.9
20°	2240.8	2235.6	2236.6	2213.0	2190.0	2156.0	2106.8	2028.8	1971.2	1877.5	1797.3
22.5°	2239.1	2238.1	2242.1	2234.0	2217.2	2191.2	2152.4	2086.6	2013.1	1918.5	1828.3
25°	2126.7	2122.5	2147.1	2153.9	2180.6	2185.3	2173.8	2137.7	2068.0	1970.6	1859.1
27.5°	1779.9	1777.6	1823.2	1880.4	1952.8	2009.2	2063.6	2089.9	2068.0	1998.3	1886.6
30°	1460.7	1509.9	1533.0	1615.7	1707.8	1817.8	1914.1	2005.7	2028.2	1997.9	1906.2
32.5°	1212.8	1255.7	1274.9	1345.9	1431.8	1560.6	1705.1	1834.8	1926.5	1949.7	1894.5
35°	922.5	923.0	967.0	998.4	1078.0	1210.4	1350.8	1524.6	1697.3	1828.2	1841.8
37.5°	736.1	738.7	765.3	796.6	856.3	926.4	1049.9	1194.4	1394.0	1594.9	1712.7
40°	635.6	640.3	660.2	691.1	734.0	786.9	883.2	1019.4	1185.8	1409.4	1592.1
42.5°	571.1	578.7	589.0	612.8	639.4	688.9	766.8	871.9	1023.3	1234.7	1445.5
45°	492.1	496.3	504.2	515.2	539.3	573.8	626.2	696.8	822.5	992.7	1203.6
47.5°	434.1	431.9	440.2	449.1	465.1	488.7	523.8	581.5	671.1	807.6	986.6
50°	394.8	394.2	400.0	406.8	422.0	439.3	468.1	511.5	582.7	695.8	859.7
52.5°	357.9	359.9	364.0	372.5	383.4	397.4	423.2	454.5	515.7	613.3	749.9
55°	308.9	310.5	316.2	320.9	328.8	342.9	359.2	385.3	427.2	495.3	607.8
57.5°	267.4	266.7	272.2	273.4	282.3	293.8	306.4	326.7	357.1	407.6	483.4
60°	239.8	238.2	242.9	246.6	251.3	260.7	271.2	291.1	315.2	352.3	417.3
62.5°	214.7	213.9	217.4	221.0	224.9	233.5	242.3	257.6	276.6	308.0	359.5
65°	178.0	179.6	181.1	182.7	184.8	190.0	198.4	208.9	222.0	244.0	281.1
67.5°	139.9	141.5	142.0	145.2	149.7	153.0	158.1	167.4	176.5	195.1	216.2
70°	113.1	112.6	113.1	114.7	120.4	126.2	133.0	139.8	145.5	158.6	176.4
72.5°	97.2	96.2	97.6	97.9	100.7	102.3	106.6	113.0	120.4	129.3	142.1
75°	75.4	75.4	75.4	75.4	77.5	78.5	80.1	81.7	84.3	88.5	97.9
77.5°	55.7	55.8	56.5	57.1	57.5	58.1	59.1	60.6	61.6	63.8	67.9
80°	44.0	44.5	44.0	44.5	44.5	45.5	46.1	47.6	48.2	50.8	52.4
82.5°	33.1	32.8	33.1	33.6	33.6	34.7	34.8	35.9	36.0	37.4	39.0
85°	17.8	16.8	17.8	17.3	18.3	17.3	17.8	18.8	18.8	19.4	21.5
87.5°	13.2	13.9	13.0	13.3	13.1	13.3	13.1	12.8	13.4	12.7	12.2
90°	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9	37.5	36.2	31.8
92.5°	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0	59.0	57.9	55.4
95°	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3	112.9	111.6	108.9
97.5°	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7	176.2	174.6	172.7
100°	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7	222.7	221.7	220.0
102.5°	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8	275.8	274.7	272.5
105°	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9	355.9	355.9	352.9
107.5°	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6	440.5	439.4	438.2
110°	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8	497.5	496.1	495.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0	554.4	552.8	552.7
115°	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1	642.7	642.4	643.1
117.5°	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9	731.0	731.1	731.9
120°	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5	789.8	790.2	791.8
122.5°	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7	849.6	850.5	851.4
125°	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8	938.1	939.5	940.1
127.5°	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8	1025.6	1027.5	1028.3
130°	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5	1082.9	1084.2	1085.2
132.5°	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7	1139.3	1140.9	1141.6
135°	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8	1223.1	1224.5	1224.8
137.5°	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0	1305.4	1306.8	1305.9
140°	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3
142.5°	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7	1409.0	1409.3	1408.7
145°	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1	1483.5	1483.8	1482.8
147.5°	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.2
152.5°	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6	1636.1	1635.5	1635.1
155°	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6	1693.3	1691.9	1691.6
157.5°	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5	1743.1	1741.7	1741.4
160°	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2	1773.5	1771.8	1771.8
162.5°	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1	1802.5	1800.8	1800.5
165°	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7	1838.7	1836.7	1836.7
167.5°	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2	1866.0
170°	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9	1881.9
172.5°	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3	1897.3	1895.2	1895.2
175°	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1	1911.1	1909.1	1909.1
177.5°	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2	1917.6	1916.0	1916.0
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1262.8	1261.5	1255.7	1249.0	1240.2	1234.3	1229.7	1227.2	1219.7	1210.4	1204.2
5°	1340.8	1325.1	1308.4	1287.9	1269.1	1249.7	1237.7	1223.5	1206.3	1186.9	1173.3
7.5°	1424.4	1393.6	1360.4	1326.2	1292.3	1262.0	1235.2	1212.2	1184.7	1156.9	1137.5
10°	1488.5	1443.4	1396.8	1349.2	1305.7	1264.9	1233.5	1202.6	1169.6	1137.7	1113.6
12.5°	1546.7	1487.4	1433.7	1375.2	1319.6	1270.8	1225.5	1189.2	1149.5	1115.5	1088.0
15°	1620.4	1559.7	1494.7	1405.7	1331.9	1270.1	1215.2	1167.5	1119.4	1077.5	1050.8
17.5°	1689.3	1597.9	1510.7	1436.4	1340.5	1263.3	1196.2	1139.2	1086.4	1042.0	1009.1
20°	1717.8	1629.3	1534.5	1439.8	1345.5	1259.1	1181.1	1118.3	1063.3	1013.1	982.7
22.5°	1734.9	1634.7	1534.9	1433.1	1333.0	1243.2	1166.1	1096.9	1037.4	989.6	952.1
25°	1754.9	1635.6	1525.6	1425.1	1323.0	1225.6	1134.0	1060.7	996.3	945.5	905.7
27.5°	1768.1	1627.7	1497.8	1386.0	1282.5	1185.5	1101.5	1023.9	958.5	904.8	862.1
30°	1770.6	1621.4	1476.4	1355.5	1250.2	1161.2	1072.2	997.9	928.8	871.7	831.9
32.5°	1774.0	1605.9	1447.5	1319.0	1211.3	1123.1	1042.5	971.5	900.7	844.5	803.9
35°	1760.2	1597.4	1403.6	1256.0	1148.1	1062.8	990.0	924.6	855.0	800.5	759.1
37.5°	1700.7	1563.3	1358.2	1185.0	1072.2	993.2	933.9	876.8	813.0	754.2	715.3
40°	1640.8	1529.8	1323.0	1141.9	1024.1	942.9	889.5	842.9	781.1	726.2	684.3
42.5°	1551.6	1484.2	1289.5	1096.6	969.6	891.4	846.4	802.7	748.5	692.7	653.3
45°	1387.9	1396.8	1220.9	1024.6	894.2	815.7	773.3	742.9	694.8	648.7	608.4
47.5°	1182.7	1265.9	1140.4	947.8	814.7	741.0	704.0	677.5	645.0	599.8	563.0
50°	1048.7	1167.5	1075.9	896.3	764.9	691.6	655.0	633.5	605.2	569.6	534.5
52.5°	925.1	1052.8	998.0	838.9	710.9	643.9	608.1	590.4	567.9	534.4	502.7
55°	754.4	883.8	871.2	752.3	629.8	569.6	542.4	522.5	507.3	482.2	457.1
57.5°	610.3	732.9	739.4	656.0	558.4	498.9	475.5	460.5	450.6	431.6	408.4
60°	519.4	631.9	653.9	591.1	507.3	455.0	431.9	419.9	412.0	396.9	379.1
62.5°	444.0	539.8	564.7	519.5	458.3	409.3	391.3	379.7	374.3	361.2	345.5
65°	339.8	419.4	443.4	418.3	386.4	347.1	332.5	322.5	317.8	310.5	298.9
67.5°	255.5	313.5	339.9	322.2	310.7	285.9	276.5	271.2	267.0	262.0	252.4
70°	205.2	248.2	275.4	270.7	261.3	248.2	241.4	237.7	233.5	229.3	220.9
72.5°	165.0	194.6	220.1	222.5	214.8	212.1	206.2	204.6	202.1	197.1	192.5
75°	109.4	129.8	147.6	154.4	157.6	160.2	157.6	157.1	156.5	152.4	149.7
77.5°	71.7	82.7	93.9	105.5	110.5	114.0	114.9	116.8	115.4	113.2	111.9
80°	55.0	57.6	65.4	75.4	83.2	86.4	88.5	89.5	89.0	88.5	86.4
82.5°	39.9	42.1	45.8	52.8	59.4	64.6	65.9	65.7	66.8	67.1	65.4
85°	21.5	22.0	23.0	24.1	27.7	33.5	35.1	36.1	37.2	37.2	34.0
87.5°	12.2	10.9	10.9	10.1	10.7	10.4	12.3	13.7	14.8	13.8	14.5
90°	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5	4.9	8.2	11.6
92.5°	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5	38.8	41.0	43.3
95°	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0	91.3	93.7	96.0
97.5°	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0	159.8	161.5	163.3
100°	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1	207.1	209.1	211.1
102.5°	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4	260.6	261.8	263.0
105°	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3	340.0	340.6	341.3
107.5°	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2	432.6	433.0	433.4
110°	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1	490.8	491.4	492.1



TEST NUMBER: P332447

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4	550.8	551.2	551.6
115°	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9	641.9	642.9	643.9
117.5°	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0	732.6	733.3	734.0
120°	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7	790.7	792.7	794.7
122.5°	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8	849.2	850.7	852.2
125°	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9	938.9	940.0	941.0
127.5°	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2	1023.3	1025.5	1027.6
130°	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7	1079.4	1082.0	1084.7
132.5°	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2	1134.8	1137.5	1140.2
135°	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9	1218.9	1220.9	1222.9
137.5°	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3	1297.0	1298.7	1300.4
140°	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6	1351.3	1353.0	1354.6
142.5°	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1	1400.7	1402.4	1404.1
145°	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3	1477.0	1477.6	1478.3
147.5°	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8	1545.0	1546.2	1547.5
150°	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9	1591.6	1592.2	1592.9
152.5°	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5	1630.4	1631.4	1632.3
155°	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3	1741.9	1741.5	1741.1
160°	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9	1774.2	1773.5	1772.8
162.5°	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8	1802.9	1801.9	1801.0
165°	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2	1840.2	1839.2	1838.2
167.5°	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1	1869.7	1868.4	1867.0
170°	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9	1886.6	1885.3	1883.9
172.5°	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2	1899.9	1898.5	1897.2
175°	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1	1913.8	1912.4	1911.1
177.5°	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8	1919.8	1918.7	1917.6
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332447

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1202.1	1196.6	1192.9	1184.5	1179.0	1173.2	1167.3	1171.1	1170.7	1170.2	1170.2
5°	1161.8	1149.7	1138.7	1124.6	1115.7	1104.7	1096.3	1095.3	1097.4	1090.0	1085.8
7.5°	1121.8	1105.3	1089.7	1074.1	1057.6	1044.4	1036.1	1032.2	1026.9	1022.4	1017.7
10°	1093.7	1074.3	1059.1	1039.8	1022.0	1006.3	996.3	989.5	985.8	982.2	975.4
12.5°	1064.8	1045.8	1026.5	1004.6	987.6	969.4	962.0	954.3	947.3	943.2	933.9
15°	1022.5	997.9	977.5	954.4	935.6	917.8	907.3	892.1	890.0	884.8	875.4
17.5°	980.1	953.4	925.2	908.2	886.9	868.4	852.4	847.3	832.3	826.7	818.5
20°	946.6	922.0	900.5	878.0	847.1	829.8	817.3	810.5	798.4	791.1	785.8
22.5°	917.7	892.7	867.8	841.6	816.1	796.7	787.5	776.9	770.4	760.1	754.4
25°	876.4	849.2	819.4	791.1	772.8	758.1	743.4	734.0	724.6	719.9	709.4
27.5°	828.5	800.0	772.1	750.7	728.2	713.7	700.4	692.0	680.7	672.8	667.0
30°	802.1	768.6	744.5	725.1	696.3	682.7	672.8	662.3	653.9	645.5	639.8
32.5°	771.5	740.9	718.1	694.1	672.0	657.2	644.3	635.1	627.9	620.0	614.2
35°	723.5	697.9	674.3	650.2	634.0	618.8	603.7	595.8	589.0	581.7	576.4
37.5°	680.2	656.2	633.8	611.0	590.9	578.5	566.3	560.3	551.1	546.2	540.8
40°	653.4	629.8	605.7	583.8	562.8	553.4	542.4	533.5	525.1	521.5	515.7
42.5°	624.1	600.5	580.2	556.5	539.4	526.6	516.4	506.7	500.4	495.1	491.8
45°	580.6	559.7	539.8	516.2	500.0	489.0	477.5	468.6	462.8	459.2	453.4
47.5°	538.4	517.5	497.3	476.7	461.0	448.5	437.0	430.8	423.1	418.6	414.8
50°	507.8	489.0	467.5	448.7	433.0	420.4	411.0	403.1	396.3	390.6	388.0
52.5°	479.8	459.7	441.1	423.6	407.0	392.8	384.2	375.9	370.8	364.2	361.1
55°	433.5	414.1	398.4	381.1	364.9	352.9	342.4	335.1	329.8	322.5	318.3
57.5°	390.0	372.7	353.9	338.9	322.2	312.0	303.3	293.4	287.0	281.3	277.2
60°	360.7	340.8	324.6	310.5	295.8	282.7	274.9	267.0	260.2	254.4	250.8
62.5°	330.2	312.8	297.4	282.0	268.6	257.2	248.1	241.5	235.5	231.8	228.2
65°	283.2	269.6	253.9	241.4	228.8	220.4	213.1	207.3	203.1	200.5	197.4
67.5°	240.1	226.9	213.2	200.8	192.5	186.1	181.3	176.3	174.2	170.9	168.8
70°	212.0	198.4	186.4	177.0	168.6	163.9	160.7	157.1	155.0	150.8	148.7
72.5°	181.5	171.6	162.9	155.2	148.5	144.2	140.2	135.7	132.4	127.7	125.7
75°	142.9	134.0	127.2	122.0	117.8	112.0	106.3	101.6	100.0	98.4	97.9
77.5°	105.9	100.2	95.3	90.9	85.7	81.5	80.2	79.2	78.8	78.0	78.0
80°	83.2	78.0	74.3	69.1	66.0	66.0	66.0	64.9	65.4	65.4	65.4
82.5°	61.9	57.1	55.1	53.2	52.6	53.0	53.0	53.2	52.9	53.7	53.3
85°	31.9	32.5	33.5	33.0	33.5	33.5	34.6	34.0	34.6	33.5	34.6
87.5°	14.7	16.7	18.0	19.3	20.6	21.1	21.7	22.0	22.7	23.0	23.2
90°	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9	40.2	41.6	42.6
92.5°	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0	61.1	62.2	62.5
95°	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3	115.6	116.9	117.6
97.5°	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7	179.2	180.8	181.5
100°	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7	224.7	225.7	226.5
102.5°	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8	277.8	278.8	279.2
105°	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9	355.9	355.9	356.2
107.5°	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6	442.6	443.7	444.0
110°	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8	500.1	501.5	501.8



TEST NUMBER: P332447

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0	557.6	559.2	560.0
115°	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1	643.4	643.7	643.7
117.5°	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9	730.9	730.8	730.3
120°	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5	789.2	788.8	788.3
122.5°	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7	847.9	847.0	846.1
125°	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8	935.4	934.1	932.7
127.5°	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8	1021.9	1020.0	1018.3
130°	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5	1080.2	1078.9	1077.0
132.5°	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7	1136.1	1134.5	1132.8
135°	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8	1220.4	1219.1	1218.1
137.5°	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0	1302.6	1301.2	1299.8
140°	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.0
142.5°	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7	1408.3	1408.0	1406.9
145°	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1	1482.8	1482.5	1481.6
147.5°	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9	1596.9	1596.9	1595.9
152.5°	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6	1637.1	1637.7	1637.1
155°	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6	1695.9	1697.3	1696.8
157.5°	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5	1745.9	1747.3	1747.1
160°	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2	1776.9	1778.5	1778.7
162.5°	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1	1805.8	1807.5	1807.3
165°	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7	1842.7	1844.7	1844.6
167.5°	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5
170°	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3
172.5°	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3	1901.4	1903.5	1903.4
175°	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1	1915.1	1917.1	1916.9
177.5°	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2	1920.8	1922.4	1922.3
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332447

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1165.2	1164.8	1165.2	1163.5	1165.2	1164.8	1165.2	1170.2	1170.2	1170.7	1171.1
5°	1084.3	1083.7	1082.2	1077.5	1082.2	1083.7	1084.3	1085.8	1090.0	1097.4	1095.3
7.5°	1013.6	1012.9	1008.3	1008.4	1008.3	1012.9	1013.6	1017.7	1022.4	1026.9	1032.2
10°	971.7	972.2	966.0	962.3	966.0	972.2	971.7	975.4	982.2	985.8	989.5
12.5°	931.1	928.7	923.6	919.6	923.6	928.7	931.1	933.9	943.2	947.3	954.3
15°	877.5	872.2	859.7	860.7	859.7	872.2	877.5	875.4	884.8	890.0	892.1
17.5°	814.3	810.5	810.2	802.9	810.2	810.5	814.3	818.5	826.7	832.3	847.3
20°	777.5	774.9	775.9	768.6	775.9	774.9	777.5	785.8	791.1	798.4	810.5
22.5°	748.6	746.0	741.6	739.3	741.6	746.0	748.6	754.4	760.1	770.4	776.9
25°	706.3	702.1	697.9	700.5	697.9	702.1	706.3	709.4	719.9	724.6	734.0
27.5°	664.0	660.8	656.6	656.1	656.6	660.8	664.0	667.0	672.8	680.7	692.0
30°	637.2	634.0	631.9	629.3	631.9	634.0	637.2	639.8	645.5	653.9	662.3
32.5°	609.9	609.3	605.5	605.0	605.5	609.3	609.9	614.2	620.0	627.9	635.1
35°	574.3	571.2	570.1	570.7	570.1	571.2	574.3	576.4	581.7	589.0	595.8
37.5°	540.5	536.3	534.4	532.6	534.4	536.3	540.5	540.8	546.2	551.1	560.3
40°	516.2	512.0	511.0	509.9	511.0	512.0	516.2	515.7	521.5	525.1	533.5
42.5°	489.0	487.3	486.7	484.8	486.7	487.3	489.0	491.8	495.1	500.4	506.7
45°	451.8	451.3	448.2	449.2	448.2	451.3	451.8	453.4	459.2	462.8	468.6
47.5°	412.7	410.4	408.2	409.6	408.2	410.4	412.7	414.8	418.6	423.1	430.8
50°	385.9	384.8	380.1	381.1	380.1	384.8	385.9	388.0	390.6	396.3	403.1
52.5°	359.1	355.1	353.3	352.7	353.3	355.1	359.1	361.1	364.2	370.8	375.9
55°	314.7	309.9	307.8	306.8	307.8	309.9	314.7	318.3	322.5	329.8	335.1
57.5°	271.1	269.8	268.2	269.3	268.2	269.8	271.1	277.2	281.3	287.0	293.4
60°	245.5	245.5	245.5	245.0	245.5	245.5	245.5	250.8	254.4	260.2	267.0
62.5°	225.9	224.6	224.2	224.9	224.2	224.6	225.9	228.2	231.8	235.5	241.5
65°	195.8	195.3	193.2	192.7	193.2	195.3	195.8	197.4	200.5	203.1	207.3
67.5°	167.4	165.5	164.9	164.2	164.9	165.5	167.4	168.8	170.9	174.2	176.3
70°	146.1	145.0	141.9	142.4	141.9	145.0	146.1	148.7	150.8	155.0	157.1
72.5°	123.0	122.0	121.4	120.6	121.4	122.0	123.0	125.7	127.7	132.4	135.7
75°	97.4	96.9	96.3	98.4	96.3	96.9	97.4	97.9	98.4	100.0	101.6
77.5°	78.0	78.0	78.3	77.5	78.3	78.0	78.0	78.0	78.0	78.8	79.2
80°	65.4	65.4	64.9	64.9	64.9	65.4	65.4	65.4	65.4	65.4	64.9
82.5°	52.5	52.9	53.2	52.4	53.2	52.9	52.5	53.3	53.7	52.9	53.2
85°	34.6	34.0	35.1	34.6	35.1	34.0	34.6	34.6	33.5	34.6	34.0
87.5°	24.1	23.4	23.6	24.1	23.6	23.4	24.1	23.2	23.0	22.7	22.0
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9
92.5°	62.1	61.7	61.3	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0
95°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3
97.5°	181.4	181.2	181.1	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7
100°	227.2	227.9	228.5	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7
102.5°	279.1	278.9	278.8	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8
105°	356.9	357.6	358.2	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9
107.5°	443.6	443.2	442.8	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6
110°	501.1	500.5	499.8	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8



TEST NUMBER: P332447

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	559.9	559.7	559.6	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0
115°	643.4	643.1	642.7	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1
117.5°	729.3	728.4	727.5	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9
120°	787.7	787.0	786.3	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5
122.5°	845.2	844.2	843.3	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7
125°	931.4	930.1	928.7	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8
127.5°	1016.8	1015.2	1013.7	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8
130°	1074.7	1072.3	1070.0	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5
132.5°	1131.0	1129.2	1127.3	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7
135°	1217.4	1216.7	1216.1	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8
137.5°	1298.5	1297.3	1296.0	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0
140°	1353.6	1351.3	1348.9	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0
142.5°	1405.1	1403.3	1401.5	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7
145°	1480.3	1479.0	1477.6	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1
147.5°	1550.5	1548.5	1546.4	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5
150°	1593.9	1591.9	1589.9	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9
152.5°	1635.3	1633.6	1631.8	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6
155°	1694.4	1692.1	1689.7	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6
157.5°	1745.2	1743.3	1741.4	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5
160°	1777.4	1776.0	1774.7	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2
162.5°	1805.1	1803.0	1800.8	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1
165°	1842.2	1839.9	1837.5	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7
167.5°	1872.5	1870.4	1868.3	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4
170°	1889.0	1886.6	1884.3	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6
172.5°	1901.0	1898.7	1896.3	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3
175°	1914.6	1912.2	1909.9	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1
177.5°	1920.4	1918.5	1916.7	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1167.3	1173.2	1179.0	1184.5	1192.9	1196.6	1202.1	1204.2	1210.4	1219.7	1227.2
5°	1096.3	1104.7	1115.7	1124.6	1138.7	1149.7	1161.8	1173.3	1186.9	1206.3	1223.5
7.5°	1036.1	1044.4	1057.6	1074.1	1089.7	1105.3	1121.8	1137.5	1156.9	1184.7	1212.2
10°	996.3	1006.3	1022.0	1039.8	1059.1	1074.3	1093.7	1113.6	1137.7	1169.6	1202.6
12.5°	962.0	969.4	987.6	1004.6	1026.5	1045.8	1064.8	1088.0	1115.5	1149.5	1189.2
15°	907.3	917.8	935.6	954.4	977.5	997.9	1022.5	1050.8	1077.5	1119.4	1167.5
17.5°	852.4	868.4	886.9	908.2	925.2	953.4	980.1	1009.1	1042.0	1086.4	1139.2
20°	817.3	829.8	847.1	878.0	900.5	922.0	946.6	982.7	1013.1	1063.3	1118.3
22.5°	787.5	796.7	816.1	841.6	867.8	892.7	917.7	952.1	989.6	1037.4	1096.9
25°	743.4	758.1	772.8	791.1	819.4	849.2	876.4	905.7	945.5	996.3	1060.7
27.5°	700.4	713.7	728.2	750.7	772.1	800.0	828.5	862.1	904.8	958.5	1023.9
30°	672.8	682.7	696.3	725.1	744.5	768.6	802.1	831.9	871.7	928.8	997.9
32.5°	644.3	657.2	672.0	694.1	718.1	740.9	771.5	803.9	844.5	900.7	971.5
35°	603.7	618.8	634.0	650.2	674.3	697.9	723.5	759.1	800.5	855.0	924.6
37.5°	566.3	578.5	590.9	611.0	633.8	656.2	680.2	715.3	754.2	813.0	876.8
40°	542.4	553.4	562.8	583.8	605.7	629.8	653.4	684.3	726.2	781.1	842.9
42.5°	516.4	526.6	539.4	556.5	580.2	600.5	624.1	653.3	692.7	748.5	802.7
45°	477.5	489.0	500.0	516.2	539.8	559.7	580.6	608.4	648.7	694.8	742.9
47.5°	437.0	448.5	461.0	476.7	497.3	517.5	538.4	563.0	599.8	645.0	677.5
50°	411.0	420.4	433.0	448.7	467.5	489.0	507.8	534.5	569.6	605.2	633.5
52.5°	384.2	392.8	407.0	423.6	441.1	459.7	479.8	502.7	534.4	567.9	590.4
55°	342.4	352.9	364.9	381.1	398.4	414.1	433.5	457.1	482.2	507.3	522.5
57.5°	303.3	312.0	322.2	338.9	353.9	372.7	390.0	408.4	431.6	450.6	460.5
60°	274.9	282.7	295.8	310.5	324.6	340.8	360.7	379.1	396.9	412.0	419.9
62.5°	248.1	257.2	268.6	282.0	297.4	312.8	330.2	345.5	361.2	374.3	379.7
65°	213.1	220.4	228.8	241.4	253.9	269.6	283.2	298.9	310.5	317.8	322.5
67.5°	181.3	186.1	192.5	200.8	213.2	226.9	240.1	252.4	262.0	267.0	271.2
70°	160.7	163.9	168.6	177.0	186.4	198.4	212.0	220.9	229.3	233.5	237.7
72.5°	140.2	144.2	148.5	155.2	162.9	171.6	181.5	192.5	197.1	202.1	204.6
75°	106.3	112.0	117.8	122.0	127.2	134.0	142.9	149.7	152.4	156.5	157.1
77.5°	80.2	81.5	85.7	90.9	95.3	100.2	105.9	111.9	113.2	115.4	116.8
80°	66.0	66.0	66.0	69.1	74.3	78.0	83.2	86.4	88.5	89.0	89.5
82.5°	53.0	53.0	52.6	53.2	55.1	57.1	61.9	65.4	67.1	66.8	65.7
85°	34.6	33.5	33.5	33.0	33.5	32.5	31.9	34.0	37.2	37.2	36.1
87.5°	21.7	21.1	20.6	19.3	18.0	16.7	14.7	14.5	13.8	14.8	13.7
90°	37.5	36.2	31.8	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5
92.5°	59.0	57.9	55.4	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5
95°	112.9	111.6	108.9	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0
97.5°	176.2	174.6	172.7	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0
100°	222.7	221.7	220.0	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1
102.5°	275.8	274.7	272.5	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4
105°	355.9	355.9	352.9	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3
107.5°	440.5	439.4	438.2	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2
110°	497.5	496.1	495.4	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	554.4	552.8	552.7	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4
115°	642.7	642.4	643.1	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9
117.5°	731.0	731.1	731.9	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0
120°	789.8	790.2	791.8	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7
122.5°	849.6	850.5	851.4	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8
125°	938.1	939.5	940.1	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9
127.5°	1025.6	1027.5	1028.3	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2
130°	1082.9	1084.2	1085.2	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7
132.5°	1139.3	1140.9	1141.6	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2
135°	1223.1	1224.5	1224.8	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9
137.5°	1305.4	1306.8	1305.9	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3
140°	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6
142.5°	1409.0	1409.3	1408.7	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1
145°	1483.5	1483.8	1482.8	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3
147.5°	1553.5	1553.5	1552.5	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8
150°	1596.9	1596.9	1596.2	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9
152.5°	1636.1	1635.5	1635.1	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5
155°	1693.3	1691.9	1691.6	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1743.1	1741.7	1741.4	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3
160°	1773.5	1771.8	1771.8	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9
162.5°	1802.5	1800.8	1800.5	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8
165°	1838.7	1836.7	1836.7	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2
167.5°	1868.3	1866.2	1866.0	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1
170°	1884.3	1881.9	1881.9	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9
172.5°	1897.3	1895.2	1895.2	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2
175°	1911.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1
177.5°	1917.6	1916.0	1916.0	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1229.7	1234.3	1240.2	1249.0	1255.7	1261.5	1262.8	1264.5	1268.7	1275.8	1281.2
5°	1237.7	1249.7	1269.1	1287.9	1308.4	1325.1	1340.8	1351.8	1362.3	1384.3	1402.1
7.5°	1235.2	1262.0	1292.3	1326.2	1360.4	1393.6	1424.4	1451.9	1479.3	1511.4	1547.9
10°	1233.5	1264.9	1305.7	1349.2	1396.8	1443.4	1488.5	1523.5	1564.4	1601.0	1647.6
12.5°	1225.5	1270.8	1319.6	1375.2	1433.7	1487.4	1546.7	1595.2	1641.9	1694.8	1749.0
15°	1215.2	1270.1	1331.9	1405.7	1494.7	1559.7	1620.4	1704.7	1762.3	1819.9	1897.3
17.5°	1196.2	1263.3	1340.5	1436.4	1510.7	1597.9	1689.3	1755.9	1833.5	1914.6	1984.8
20°	1181.1	1259.1	1345.5	1439.8	1534.5	1629.3	1717.8	1797.3	1877.5	1971.2	2028.8
22.5°	1166.1	1243.2	1333.0	1433.1	1534.9	1634.7	1734.9	1828.3	1918.5	2013.1	2086.6
25°	1134.0	1225.6	1323.0	1425.1	1525.6	1635.6	1754.9	1859.1	1970.6	2068.0	2137.7
27.5°	1101.5	1185.5	1282.5	1386.0	1497.8	1627.7	1768.1	1886.6	1998.3	2068.0	2089.9
30°	1072.2	1161.2	1250.2	1355.5	1476.4	1621.4	1770.6	1906.2	1997.9	2028.2	2005.7
32.5°	1042.5	1123.1	1211.3	1319.0	1447.5	1605.9	1774.0	1894.5	1949.7	1926.5	1834.8
35°	990.0	1062.8	1148.1	1256.0	1403.6	1597.4	1760.2	1841.8	1828.2	1697.3	1524.6
37.5°	933.9	993.2	1072.2	1185.0	1358.2	1563.3	1700.7	1712.7	1594.9	1394.0	1194.4
40°	889.5	942.9	1024.1	1141.9	1323.0	1529.8	1640.8	1592.1	1409.4	1185.8	1019.4
42.5°	846.4	891.4	969.6	1096.6	1289.5	1484.2	1551.6	1445.5	1234.7	1023.3	871.9
45°	773.3	815.7	894.2	1024.6	1220.9	1396.8	1387.9	1203.6	992.7	822.5	696.8
47.5°	704.0	741.0	814.7	947.8	1140.4	1265.9	1182.7	986.6	807.6	671.1	581.5
50°	655.0	691.6	764.9	896.3	1075.9	1167.5	1048.7	859.7	695.8	582.7	511.5
52.5°	608.1	643.9	710.9	838.9	998.0	1052.8	925.1	749.9	613.3	515.7	454.5
55°	542.4	569.6	629.8	752.3	871.2	883.8	754.4	607.8	495.3	427.2	385.3
57.5°	475.5	498.9	558.4	656.0	739.4	732.9	610.3	483.4	407.6	357.1	326.7
60°	431.9	455.0	507.3	591.1	653.9	631.9	519.4	417.3	352.3	315.2	291.1
62.5°	391.3	409.3	458.3	519.5	564.7	539.8	444.0	359.5	308.0	276.6	257.6
65°	332.5	347.1	386.4	418.3	443.4	419.4	339.8	281.1	244.0	222.0	208.9
67.5°	276.5	285.9	310.7	322.2	339.9	313.5	255.5	216.2	195.1	176.5	167.4
70°	241.4	248.2	261.3	270.7	275.4	248.2	205.2	176.4	158.6	145.5	139.8
72.5°	206.2	212.1	214.8	222.5	220.1	194.6	165.0	142.1	129.3	120.4	113.0
75°	157.6	160.2	157.6	154.4	147.6	129.8	109.4	97.9	88.5	84.3	81.7
77.5°	114.9	114.0	110.5	105.5	93.9	82.7	71.7	67.9	63.8	61.6	60.6
80°	88.5	86.4	83.2	75.4	65.4	57.6	55.0	52.4	50.8	48.2	47.6
82.5°	65.9	64.6	59.4	52.8	45.8	42.1	39.9	39.0	37.4	36.0	35.9
85°	35.1	33.5	27.7	24.1	23.0	22.0	21.5	21.5	19.4	18.8	18.8
87.5°	12.3	10.4	10.7	10.1	10.9	10.9	12.2	12.2	12.7	13.4	12.8
90°	4.9	8.2	11.6	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9
92.5°	38.8	41.0	43.3	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0
95°	91.3	93.7	96.0	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3
97.5°	159.8	161.5	163.3	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7
100°	207.1	209.1	211.1	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7
102.5°	260.6	261.8	263.0	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8
105°	340.0	340.6	341.3	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9
107.5°	432.6	433.0	433.4	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6
110°	490.8	491.4	492.1	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	550.8	551.2	551.6	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0
115°	641.9	642.9	643.9	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1
117.5°	732.6	733.3	734.0	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9
120°	790.7	792.7	794.7	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5
122.5°	849.2	850.7	852.2	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7
125°	938.9	940.0	941.0	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8
127.5°	1023.3	1025.5	1027.6	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8
130°	1079.4	1082.0	1084.7	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5
132.5°	1134.8	1137.5	1140.2	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7
135°	1218.9	1220.9	1222.9	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8
137.5°	1297.0	1298.7	1300.4	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0
140°	1351.3	1353.0	1354.6	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0
142.5°	1400.7	1402.4	1404.1	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7
145°	1477.0	1477.6	1478.3	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1
147.5°	1545.0	1546.2	1547.5	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5
150°	1591.6	1592.2	1592.9	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9
152.5°	1630.4	1631.4	1632.3	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6
155°	1690.4	1690.4	1690.4	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6
157.5°	1741.9	1741.5	1741.1	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5
160°	1774.2	1773.5	1772.8	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2
162.5°	1802.9	1801.9	1801.0	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1
165°	1840.2	1839.2	1838.2	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7
167.5°	1869.7	1868.4	1867.0	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4
170°	1886.6	1885.3	1883.9	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6
172.5°	1899.9	1898.5	1897.2	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3
175°	1913.8	1912.4	1911.1	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1
177.5°	1919.8	1918.7	1917.6	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1290.0	1290.0	1291.7	1298.0	1298.8	1304.3	1302.6
5°	1417.8	1427.7	1431.4	1447.1	1456.5	1460.7	1452.3
7.5°	1574.0	1602.1	1615.4	1631.8	1646.4	1650.8	1639.3
10°	1687.9	1717.2	1741.9	1757.0	1771.2	1780.6	1792.6
12.5°	1798.1	1834.1	1857.5	1878.9	1893.5	1905.4	1907.4
15°	1917.8	1972.2	2013.6	2043.9	2059.1	2067.0	2063.8
17.5°	2038.5	2089.0	2118.4	2149.4	2170.4	2171.5	2172.1
20°	2106.8	2156.0	2190.0	2213.0	2236.6	2235.6	2240.8
22.5°	2152.4	2191.2	2217.2	2234.0	2242.1	2238.1	2239.1
25°	2173.8	2185.3	2180.6	2153.9	2147.1	2122.5	2126.7
27.5°	2063.6	2009.2	1952.8	1880.4	1823.2	1777.6	1779.9
30°	1914.1	1817.8	1707.8	1615.7	1533.0	1509.9	1460.7
32.5°	1705.1	1560.6	1431.8	1345.9	1274.9	1255.7	1212.8
35°	1350.8	1210.4	1078.0	998.4	967.0	923.0	922.5
37.5°	1049.9	926.4	856.3	796.6	765.3	738.7	736.1
40°	883.2	786.9	734.0	691.1	660.2	640.3	635.6
42.5°	766.8	688.9	639.4	612.8	589.0	578.7	571.1
45°	626.2	573.8	539.3	515.2	504.2	496.3	492.1
47.5°	523.8	488.7	465.1	449.1	440.2	431.9	434.1
50°	468.1	439.3	422.0	406.8	400.0	394.2	394.8
52.5°	423.2	397.4	383.4	372.5	364.0	359.9	357.9
55°	359.2	342.9	328.8	320.9	316.2	310.5	308.9
57.5°	306.4	293.8	282.3	273.4	272.2	266.7	267.4
60°	271.2	260.7	251.3	246.6	242.9	238.2	239.8
62.5°	242.3	233.5	224.9	221.0	217.4	213.9	214.7
65°	198.4	190.0	184.8	182.7	181.1	179.6	178.0
67.5°	158.1	153.0	149.7	145.2	142.0	141.5	139.9
70°	133.0	126.2	120.4	114.7	113.1	112.6	113.1
72.5°	106.6	102.3	100.7	97.9	97.6	96.2	97.2
75°	80.1	78.5	77.5	75.4	75.4	75.4	75.4
77.5°	59.1	58.1	57.5	57.1	56.5	55.8	55.7
80°	46.1	45.5	44.5	44.5	44.0	44.5	44.0
82.5°	34.8	34.7	33.6	33.6	33.1	32.8	33.1
85°	17.8	17.3	18.3	17.3	17.8	16.8	17.8
87.5°	13.1	13.3	13.1	13.3	13.0	13.9	13.2
90°	40.2	41.6	42.6	43.2	43.9	44.6	45.2
92.5°	61.1	62.2	62.5	62.1	61.7	61.3	60.9
95°	115.6	116.9	117.6	117.6	117.6	117.6	117.6
97.5°	179.2	180.8	181.5	181.4	181.2	181.1	181.0
100°	224.7	225.7	226.5	227.2	227.9	228.5	229.2
102.5°	277.8	278.8	279.2	279.1	278.9	278.8	278.7
105°	355.9	355.9	356.2	356.9	357.6	358.2	358.9
107.5°	442.6	443.7	444.0	443.6	443.2	442.8	442.4
110°	500.1	501.5	501.8	501.1	500.5	499.8	499.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	557.6	559.2	560.0	559.9	559.7	559.6	559.4
115°	643.4	643.7	643.7	643.4	643.1	642.7	642.4
117.5°	730.9	730.8	730.3	729.3	728.4	727.5	726.5
120°	789.2	788.8	788.3	787.7	787.0	786.3	785.6
122.5°	847.9	847.0	846.1	845.2	844.2	843.3	842.3
125°	935.4	934.1	932.7	931.4	930.1	928.7	927.4
127.5°	1021.9	1020.0	1018.3	1016.8	1015.2	1013.7	1012.1
130°	1080.2	1078.9	1077.0	1074.7	1072.3	1070.0	1067.6
132.5°	1136.1	1134.5	1132.8	1131.0	1129.2	1127.3	1125.5
135°	1220.4	1219.1	1218.1	1217.4	1216.7	1216.1	1215.4
137.5°	1302.6	1301.2	1299.8	1298.5	1297.3	1296.0	1294.7
140°	1357.7	1357.3	1356.0	1353.6	1351.3	1348.9	1346.6
142.5°	1408.3	1408.0	1406.9	1405.1	1403.3	1401.5	1399.7
145°	1482.8	1482.5	1481.6	1480.3	1479.0	1477.6	1476.3
147.5°	1553.5	1553.5	1552.5	1550.5	1548.5	1546.4	1544.4
150°	1596.9	1596.9	1595.9	1593.9	1591.9	1589.9	1587.9
152.5°	1637.1	1637.7	1637.1	1635.3	1633.6	1631.8	1630.1
155°	1695.9	1697.3	1696.8	1694.4	1692.1	1689.7	1687.4
157.5°	1745.9	1747.3	1747.1	1745.2	1743.3	1741.4	1739.6
160°	1776.9	1778.5	1778.7	1777.4	1776.0	1774.7	1773.3
162.5°	1805.8	1807.5	1807.3	1805.1	1803.0	1800.8	1798.7
165°	1842.7	1844.7	1844.6	1842.2	1839.9	1837.5	1835.2
167.5°	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2
170°	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9
172.5°	1901.4	1903.5	1903.4	1901.0	1898.7	1896.3	1894.0
175°	1915.1	1917.1	1916.9	1914.6	1912.2	1909.9	1907.6
177.5°	1920.8	1922.4	1922.3	1920.4	1918.5	1916.7	1914.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6

(END OF REPORT)