

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: P333068-840

Luminaire Tested: **S124RDIW-S795D1340U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333068-840
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-S795D1340U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 795 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: 8072.9 lumens
Efficiency: N/A
Efficacy: 131.5 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

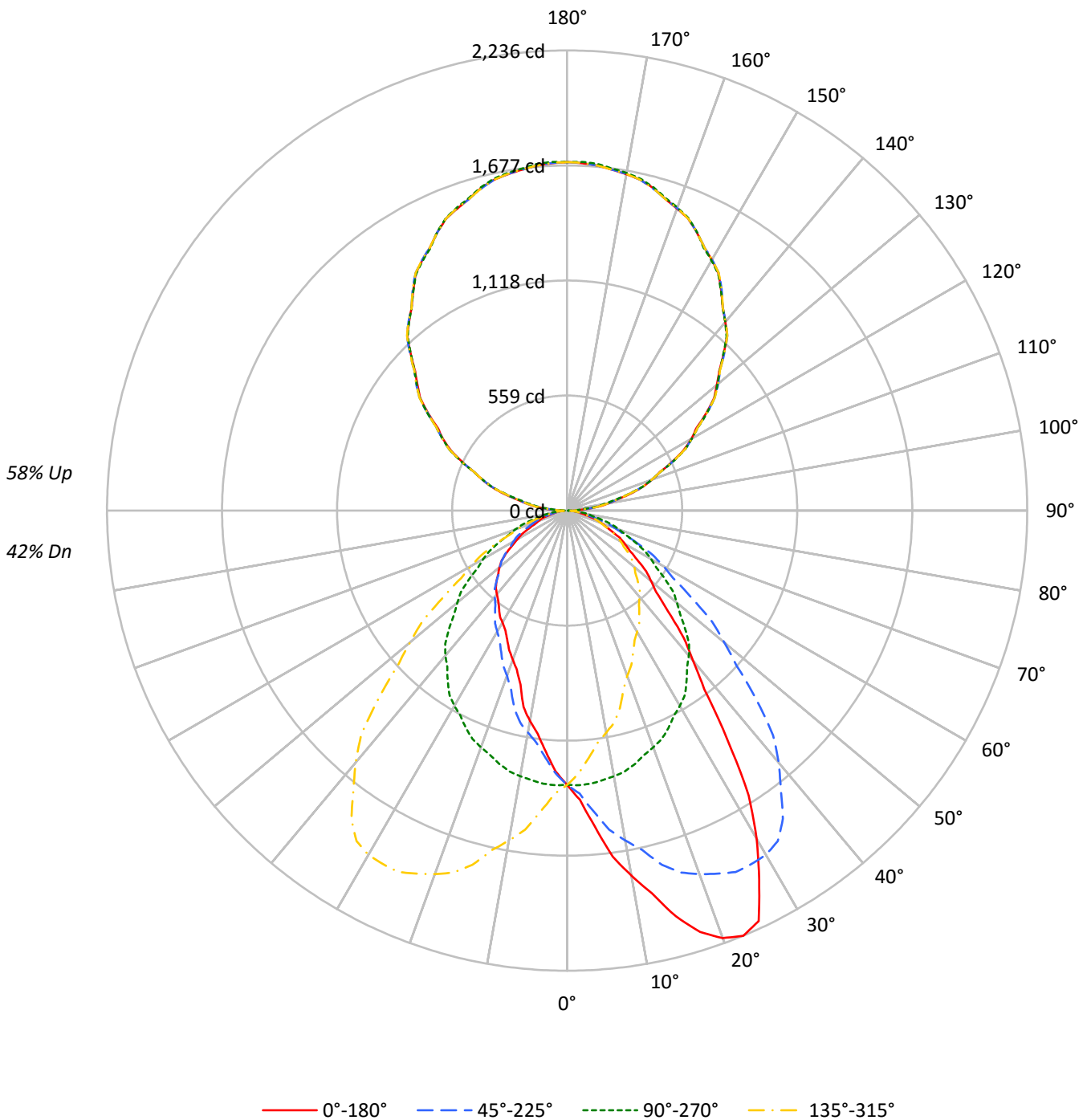
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	0														
RCR																																						
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42																				
1	96	92	89	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36																				
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31																				
3	80	71	64	59	73	66	59	55	54	50	46	44	41	38	35	33	31	26																				
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23																				
5	68	57	49	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20																				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18																				
7	58	46	38	33	53	42	36	31	36	30	27	29	25	23	24	21	19	16																				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	14																				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13																				
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	19	16	14	12																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10761	10761	10761	10761
5°	12482	10794	9541	10794
10°	14767	10747	8515	10747
15°	17057	10647	7317	10647
20°	18991	10511	6617	10511
25°	19605	10377	6143	10377
30°	17162	10213	5857	10213
35°	13360	9973	5685	9973
40°	10019	9695	5593	9695
45°	7911	9252	5543	9252
50°	6678	8743	5383	8743
55°	5820	8179	5095	8179
60°	5238	7597	4510	7597
65°	4617	6967	3878	6967
70°	4157	6314	3498	6314
75°	3484	5596	2982	5596
80°	2947	4770	2799	4770
85°	2492	3733	2492	3733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.6
10°-20°	389.6	4.8
20°-30°	609.4	7.5
30°-40°	677.4	8.4
40°-50°	601.0	7.4
50°-60°	468.4	5.8
60°-70°	306.6	3.8
70°-80°	150.8	1.9
80°-90°	42.3	0.5
90°-100°	111.7	1.4
100°-110°	330.9	4.1
110°-120°	561.6	7.0
120°-130°	740.5	9.2
130°-140°	831.6	10.3
140°-150°	817.2	10.1
150°-160°	687.3	8.5
160°-170°	457.3	5.7
170°-180°	160.1	2.0
0°-30°	1128.1	14.0
0°-40°	1805.6	22.4
0°-60°	2875.0	35.6
0°-90°	3374.7	41.8
90°-120°	1004.2	12.4
90°-150°	3393.5	42.0
90°-180°	4698.0	58.2
0°-180°	8072.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1333	1333	1333	1333	1333	
5°	1540	1332	1177	1332	1540	156
15°	2041	1274	876	1274	2041	580
25°	2201	1165	690	1165	2201	976
35°	1356	1012	577	1012	1356	850
45°	693	810	486	810	693	549
55°	414	581	362	581	414	376
65°	242	365	203	365	242	243
75°	112	179	96	179	112	123
85°	27	40	27	40	27	31
90°	39	4	39	4	39	21
95°	104	79	104	79	104	108
105°	320	305	320	305	320	337
115°	566	571	566	571	566	559
125°	825	832	825	832	825	736
135°	1074	1073	1074	1073	1074	829
145°	1304	1303	1304	1303	1304	816
155°	1492	1493	1492	1493	1492	687
165°	1621	1625	1621	1625	1621	457
175°	1683	1691	1683	1691	1683	160
180°	1693	1693	1693	1693	1693	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1406.0	1410.0	1406.0	1405.6	1401.4	1400.1	1398.4	1392.8	1382.4	1376.4	1377.8
5°	1540.3	1553.8	1546.3	1545.2	1533.4	1521.6	1514.0	1496.8	1478.5	1466.2	1456.0
7.5°	1695.7	1703.4	1698.7	1691.1	1672.0	1661.2	1643.8	1621.1	1588.4	1563.4	1540.4
10°	1801.4	1807.9	1805.6	1791.7	1777.8	1749.3	1733.1	1701.5	1660.1	1627.4	1596.8
12.5°	1905.3	1912.3	1893.3	1894.0	1867.5	1845.1	1819.6	1779.7	1731.9	1689.7	1651.3
15°	2040.9	2032.4	2032.4	2021.5	1992.1	1960.9	1934.6	1892.7	1832.5	1782.0	1728.9
17.5°	2147.1	2150.0	2145.7	2120.3	2097.1	2064.9	2016.6	1967.7	1911.9	1844.1	1789.8
20°	2210.6	2210.6	2205.8	2188.6	2158.6	2124.2	2072.0	2018.9	1948.0	1879.8	1818.6
22.5°	2236.4	2238.2	2232.4	2218.3	2191.2	2157.7	2113.3	2059.3	1986.2	1909.5	1833.6
25°	2201.0	2211.2	2212.2	2208.5	2200.4	2180.0	2141.9	2086.6	2021.0	1937.8	1856.1
27.5°	2020.7	2033.6	2044.9	2063.5	2088.2	2101.0	2102.7	2074.7	2017.5	1937.3	1855.2
30°	1841.1	1851.9	1886.7	1932.4	1967.9	2000.1	2028.0	2035.6	2003.4	1931.4	1844.9
32.5°	1641.7	1656.4	1691.3	1740.4	1799.5	1854.0	1916.7	1948.7	1947.9	1904.7	1824.7
35°	1355.6	1366.3	1398.6	1450.2	1521.1	1602.2	1701.5	1778.8	1831.5	1827.7	1778.8
37.5°	1093.3	1105.4	1138.0	1180.7	1249.5	1349.9	1446.0	1552.6	1649.9	1704.6	1688.3
40°	950.7	951.2	982.9	1026.9	1091.4	1178.9	1283.6	1401.8	1510.3	1598.9	1616.1
42.5°	838.1	838.2	859.1	906.6	953.0	1035.4	1135.4	1252.7	1379.7	1482.1	1527.6
45°	692.9	697.7	714.9	743.4	779.8	849.7	929.7	1038.7	1181.0	1302.4	1378.2
47.5°	586.7	593.8	604.7	627.9	657.0	703.6	769.7	867.7	983.5	1117.0	1224.8
50°	531.7	532.8	546.7	559.7	584.9	622.0	679.9	761.5	867.9	996.3	1116.1
52.5°	484.4	484.2	492.6	509.0	529.5	558.4	605.2	679.5	773.9	888.9	1012.5
55°	413.5	416.3	422.7	435.6	451.1	471.6	508.6	564.5	638.6	736.9	849.1
57.5°	359.6	361.0	366.1	371.5	385.9	400.7	428.5	467.3	529.8	610.3	714.9
60°	324.4	325.0	326.6	334.6	345.9	359.8	378.6	411.4	464.0	537.7	620.4
62.5°	290.0	290.9	293.5	299.3	308.1	317.7	337.4	363.8	407.3	470.2	544.7
65°	241.7	242.3	246.0	248.1	255.1	263.7	278.2	295.9	326.0	378.6	435.0
67.5°	202.0	202.0	202.2	205.1	209.8	215.6	224.3	238.4	261.2	293.5	343.2
70°	176.1	176.1	177.2	178.8	181.6	186.3	191.2	202.0	218.6	244.9	283.1
72.5°	152.1	152.5	153.6	153.9	155.3	159.3	162.9	169.8	182.1	202.0	232.8
75°	111.7	113.3	116.0	118.2	120.9	120.3	124.1	128.4	132.1	143.9	161.7
77.5°	83.1	82.3	82.6	84.4	84.7	85.3	88.0	91.3	94.1	99.7	106.0
80°	63.4	63.4	65.0	65.5	65.0	65.5	68.2	69.8	70.9	73.0	79.0
82.5°	47.9	48.8	48.3	48.8	49.1	49.6	51.9	52.2	53.3	54.1	56.7
85°	26.9	27.4	28.0	26.9	26.9	26.9	28.0	28.5	29.6	29.0	30.1
87.5°	17.3	16.8	17.1	17.0	17.3	16.6	16.7	17.2	16.0	16.1	15.7
90°	39.3	38.7	38.2	37.6	37.0	35.7	34.0	32.3	30.6	28.8	26.5
92.5°	58.2	57.8	57.5	57.1	56.8	56.0	55.0	53.9	52.9	51.9	50.2
95°	103.5	103.5	103.5	103.5	103.5	103.0	102.2	101.3	100.4	99.6	97.5
97.5°	162.2	162.2	162.2	162.2	162.2	161.6	160.6	159.6	158.4	157.4	155.0
100°	203.0	203.0	203.0	203.0	203.0	202.7	202.2	201.6	201.0	200.4	197.7
102.5°	249.1	248.8	248.6	248.4	248.1	247.6	246.8	246.0	245.2	244.4	242.0
105°	319.5	318.7	317.8	316.9	316.1	315.2	314.4	313.5	312.6	311.7	310.5
107.5°	388.2	388.3	388.3	388.4	388.4	388.1	387.2	386.4	385.6	384.8	384.7
110°	437.5	436.6	435.7	434.8	433.9	433.8	434.3	434.9	435.6	436.2	436.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	487.8	487.6	487.4	487.2	487.1	487.0	487.2	487.3	487.4	487.5	488.0
115°	565.8	566.0	566.3	566.6	566.9	567.2	567.5	567.8	568.2	568.4	569.0
117.5°	640.2	640.8	641.4	641.9	642.5	643.3	644.3	645.3	646.2	647.2	647.6
120°	696.7	696.2	695.6	695.0	694.4	694.9	696.3	697.8	699.2	700.6	701.6
122.5°	743.9	745.0	746.0	747.0	748.1	749.1	750.1	751.0	752.0	753.1	753.5
125°	825.1	825.7	826.3	826.9	827.4	828.0	828.6	829.2	829.7	830.3	830.6
127.5°	900.3	900.7	901.2	901.7	902.1	902.6	903.2	903.8	904.4	904.9	905.4
130°	949.5	950.7	951.8	953.0	954.2	955.0	955.6	956.2	956.7	957.4	957.4
132.5°	1001.9	1002.4	1002.8	1003.3	1003.8	1004.3	1004.9	1005.4	1006.0	1006.6	1006.8
135°	1073.9	1074.8	1075.7	1076.5	1077.4	1078.1	1078.7	1079.3	1079.9	1080.5	1080.5
137.5°	1149.6	1149.4	1149.3	1149.1	1148.9	1149.2	1150.0	1150.7	1151.4	1152.3	1151.8
140°	1195.8	1196.0	1196.3	1196.6	1196.9	1197.2	1197.5	1197.8	1198.1	1198.3	1198.3
142.5°	1241.8	1241.9	1241.9	1242.0	1242.0	1242.1	1242.2	1242.2	1242.3	1242.3	1242.6
145°	1304.4	1305.4	1306.2	1307.1	1308.0	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4
147.5°	1367.9	1368.2	1368.4	1368.7	1369.0	1369.3	1369.5	1369.7	1370.0	1370.2	1370.4
150°	1406.6	1406.8	1407.1	1407.4	1407.8	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
152.5°	1442.2	1443.0	1443.7	1444.5	1445.2	1445.3	1444.6	1443.9	1443.2	1442.5	1442.3
155°	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4	1495.2	1494.1	1492.9	1491.8	1492.0
157.5°	1536.0	1537.0	1537.9	1538.9	1539.9	1540.0	1539.1	1538.2	1537.4	1536.5	1536.6
160°	1561.2	1562.6	1564.1	1565.5	1566.9	1567.2	1566.4	1565.5	1564.6	1563.8	1564.1
162.5°	1587.3	1588.8	1590.2	1591.6	1593.2	1593.1	1591.5	1589.9	1588.4	1586.8	1587.1
165°	1621.3	1622.6	1623.7	1624.9	1626.1	1625.8	1624.0	1622.2	1620.5	1618.7	1619.3
167.5°	1645.8	1647.6	1649.3	1651.1	1652.9	1652.9	1651.2	1649.5	1647.8	1646.0	1646.0
170°	1659.4	1661.4	1663.4	1665.5	1667.5	1667.7	1665.9	1664.2	1662.4	1660.6	1660.4
172.5°	1670.9	1672.9	1675.0	1677.0	1679.0	1679.1	1677.1	1675.1	1673.1	1671.1	1671.1
175°	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1	1689.0	1687.0	1685.0	1682.9	1683.2
177.5°	1689.2	1691.1	1692.9	1694.9	1696.7	1696.8	1695.2	1693.5	1691.9	1690.3	1690.3
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1373.4	1367.5	1364.4	1357.6	1349.4	1345.0	1341.2	1335.6	1328.3	1320.6	1314.9
5°	1443.1	1430.3	1414.1	1394.8	1377.7	1361.0	1346.5	1332.0	1315.3	1298.1	1280.9
7.5°	1514.7	1489.3	1462.0	1430.3	1399.5	1371.4	1345.6	1320.9	1292.9	1268.0	1245.2
10°	1564.5	1530.1	1492.0	1451.8	1411.5	1376.5	1342.2	1311.0	1276.7	1246.1	1220.2
12.5°	1604.9	1564.5	1518.6	1468.4	1420.1	1377.9	1338.3	1297.7	1258.6	1225.4	1191.0
15°	1671.9	1616.6	1554.9	1494.7	1431.9	1374.4	1321.2	1273.9	1229.4	1182.7	1149.9
17.5°	1718.0	1652.3	1577.3	1505.0	1430.8	1363.0	1301.7	1245.4	1194.0	1146.2	1107.2
20°	1745.6	1673.0	1589.7	1507.6	1424.3	1351.8	1285.8	1223.5	1170.3	1118.7	1078.4
22.5°	1761.0	1680.7	1589.7	1503.7	1417.4	1339.0	1266.5	1201.5	1143.7	1092.1	1047.5
25°	1766.0	1680.0	1587.1	1488.2	1393.7	1310.5	1235.3	1165.0	1100.4	1048.9	1001.7
27.5°	1759.1	1657.9	1562.7	1461.3	1363.7	1276.0	1197.1	1123.2	1058.6	1003.3	954.8
30°	1748.8	1640.2	1538.2	1432.9	1334.1	1249.8	1166.5	1095.6	1028.5	971.1	922.2
32.5°	1726.4	1618.8	1508.9	1401.2	1301.0	1214.2	1135.2	1063.9	998.0	939.3	887.4
35°	1682.1	1573.2	1453.9	1343.2	1245.0	1154.7	1080.7	1011.9	949.1	886.2	831.4
37.5°	1623.9	1512.5	1393.8	1272.6	1174.3	1089.1	1021.1	956.5	895.2	837.9	777.2
40°	1568.8	1467.3	1344.8	1224.6	1123.6	1041.4	978.6	920.0	858.3	801.3	740.6
42.5°	1502.2	1415.7	1292.0	1171.2	1071.6	992.4	933.9	876.7	820.4	765.3	702.0
45°	1391.1	1325.5	1209.5	1093.5	993.1	914.6	860.9	810.4	761.0	708.4	648.8
47.5°	1263.6	1219.3	1119.1	1000.4	907.5	836.9	785.0	743.8	702.0	649.3	597.0
50°	1175.2	1146.7	1050.0	941.5	852.9	787.9	734.8	696.1	661.2	610.7	563.9
52.5°	1080.7	1065.5	983.8	880.1	794.5	730.7	685.3	650.6	615.2	573.3	529.6
55°	936.6	944.7	875.5	785.8	705.2	651.5	610.2	581.1	551.1	515.6	481.8
57.5°	789.5	818.9	772.4	693.7	618.1	568.6	537.5	513.0	487.8	458.4	429.5
60°	701.5	726.1	699.8	630.6	564.5	518.3	489.3	470.5	445.2	418.4	396.4
62.5°	615.5	642.0	626.3	570.4	509.1	469.3	443.7	426.3	407.5	384.1	361.1
65°	507.6	524.7	517.3	478.6	435.0	401.2	377.6	364.7	347.5	330.3	309.9
67.5°	388.7	421.9	417.6	397.0	359.4	333.0	317.5	306.1	290.4	277.7	263.8
70°	319.5	350.2	349.6	333.0	312.6	287.9	277.1	267.5	253.5	241.2	229.8
72.5°	261.6	289.6	293.8	281.0	267.0	248.3	238.0	231.4	217.8	209.3	200.3
75°	183.2	203.6	208.9	208.9	202.5	192.8	183.7	179.4	169.8	162.2	156.8
77.5°	120.1	133.0	141.4	143.3	144.3	141.1	133.5	130.5	123.1	120.4	115.2
80°	84.8	93.4	103.1	106.3	109.1	108.0	104.7	102.6	95.6	92.9	90.8
82.5°	58.7	63.4	71.3	78.4	77.7	80.5	77.7	75.9	70.7	69.7	67.6
85°	30.6	31.1	32.2	37.1	39.8	40.8	41.4	40.3	38.7	38.7	34.9
87.5°	15.1	14.2	14.6	14.1	13.8	14.9	15.7	15.3	14.7	14.1	13.4
90°	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9	7.2	10.3	13.5
92.5°	48.6	47.0	45.3	42.7	39.0	35.3	31.7	28.1	31.7	35.3	39.0
95°	95.4	93.4	91.4	89.1	86.4	83.8	81.2	78.6	81.2	83.8	86.4
97.5°	152.7	150.3	147.8	145.6	143.5	141.5	139.4	137.2	139.4	141.5	143.5
100°	195.1	192.5	189.9	188.0	186.8	185.7	184.5	183.4	184.5	185.7	186.8
102.5°	239.6	237.2	234.8	233.4	233.0	232.5	232.1	231.6	232.1	232.5	233.0
105°	309.4	308.2	307.0	306.3	306.0	305.8	305.5	305.2	305.5	305.8	306.0
107.5°	384.5	384.3	384.1	383.8	383.4	383.1	382.7	382.4	382.7	383.1	383.4
110°	436.7	437.0	437.3	437.2	436.6	436.0	435.4	434.8	435.4	436.0	436.6



TEST NUMBER: P333068-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	488.5	489.1	489.6	489.8	489.7	489.5	489.4	489.3	489.4	489.5	489.7
115°	569.6	570.2	570.8	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
117.5°	648.0	648.4	648.8	648.9	648.7	648.5	648.2	648.0	648.2	648.5	648.7
120°	702.5	703.3	704.2	704.0	702.9	701.7	700.5	699.3	700.5	701.7	702.9
122.5°	753.9	754.3	754.7	754.7	754.2	753.8	753.3	752.8	753.3	753.8	754.2
125°	830.9	831.2	831.5	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
127.5°	905.9	906.4	906.9	906.7	905.7	904.9	904.0	903.1	904.0	904.9	905.7
130°	957.4	957.4	957.4	956.9	956.0	955.2	954.3	953.4	954.3	955.2	956.0
132.5°	1007.0	1007.3	1007.5	1007.3	1006.7	1006.0	1005.4	1004.8	1005.4	1006.0	1006.7
135°	1080.5	1080.5	1080.5	1079.6	1077.8	1076.1	1074.4	1072.6	1074.4	1076.1	1077.8
137.5°	1151.3	1150.8	1150.4	1149.7	1148.9	1148.1	1147.3	1146.5	1147.3	1148.1	1148.9
140°	1198.3	1198.3	1198.3	1198.1	1197.5	1196.9	1196.3	1195.8	1196.3	1196.9	1197.5
142.5°	1242.8	1243.0	1243.2	1243.1	1242.5	1241.9	1241.3	1240.8	1241.3	1241.9	1242.5
145°	1309.1	1308.8	1308.5	1307.8	1306.7	1305.5	1304.3	1303.1	1304.3	1305.5	1306.7
147.5°	1370.7	1370.9	1371.1	1370.5	1369.2	1367.8	1366.3	1364.9	1366.3	1367.8	1369.2
150°	1407.9	1407.9	1407.9	1407.3	1406.1	1405.0	1403.8	1402.7	1403.8	1405.0	1406.1
152.5°	1442.0	1441.8	1441.6	1441.1	1440.4	1439.7	1439.0	1438.2	1439.0	1439.7	1440.4
155°	1492.3	1492.6	1492.9	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0	1493.0
157.5°	1536.6	1536.7	1536.7	1537.0	1537.5	1538.1	1538.6	1539.1	1538.6	1538.1	1537.5
160°	1564.4	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.4	1566.1	1565.8	1565.5
162.5°	1587.4	1587.7	1588.0	1588.5	1589.2	1590.0	1590.7	1591.5	1590.7	1590.0	1589.2
165°	1619.9	1620.5	1621.1	1621.8	1622.7	1623.6	1624.5	1625.3	1624.5	1623.6	1622.7
167.5°	1645.9	1645.9	1645.8	1646.4	1647.6	1648.8	1650.0	1651.2	1650.0	1648.8	1647.6
170°	1660.1	1659.8	1659.5	1660.1	1661.5	1663.0	1664.5	1665.9	1664.5	1663.0	1661.5
172.5°	1671.0	1671.0	1670.9	1671.5	1672.7	1674.0	1675.2	1676.4	1675.2	1674.0	1672.7
175°	1683.5	1683.8	1684.1	1685.0	1686.5	1687.9	1689.3	1690.8	1689.3	1687.9	1686.5
177.5°	1690.3	1690.3	1690.3	1690.8	1692.0	1693.1	1694.4	1695.5	1694.4	1693.1	1692.0
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1309.0	1304.6	1299.1	1292.6	1285.0	1278.1	1275.1	1277.6	1278.9	1275.5	1275.1
5°	1269.1	1255.7	1245.0	1228.8	1216.0	1205.2	1197.7	1194.5	1195.6	1187.0	1184.8
7.5°	1224.4	1208.4	1190.8	1171.7	1153.9	1138.1	1129.8	1125.3	1116.2	1112.3	1105.7
10°	1195.6	1174.1	1156.9	1134.3	1113.9	1095.1	1086.0	1078.4	1069.3	1065.0	1055.9
12.5°	1165.9	1140.9	1122.1	1098.6	1077.8	1055.1	1046.4	1032.5	1018.2	1009.2	997.4
15°	1124.1	1094.1	1071.0	1043.0	1018.3	992.5	969.5	943.6	934.0	913.6	901.8
17.5°	1075.2	1044.7	1016.1	978.7	940.6	908.6	883.9	859.2	844.4	831.4	825.4
20°	1043.0	1015.1	975.3	931.8	889.4	853.9	834.0	818.0	801.8	792.7	786.3
22.5°	1012.5	976.8	930.7	883.7	841.3	813.5	796.7	780.1	767.1	758.4	749.7
25°	961.4	914.6	865.8	812.0	783.0	758.9	740.6	727.2	719.1	707.9	703.6
27.5°	908.9	852.2	798.3	762.2	732.1	709.9	694.0	683.9	673.7	666.5	661.0
30°	868.5	811.0	762.7	728.3	697.7	679.4	666.5	654.7	646.6	640.8	636.4
32.5°	828.5	771.0	730.4	693.5	669.3	651.5	637.7	628.9	622.6	615.0	612.4
35°	770.7	719.7	684.3	651.0	626.2	610.2	599.4	590.3	584.9	582.7	581.1
37.5°	715.2	673.4	635.3	607.9	585.9	573.3	560.6	556.1	552.4	548.6	550.3
40°	679.9	640.8	606.9	577.9	560.2	546.2	538.7	533.3	530.1	530.1	530.1
42.5°	649.4	611.1	578.1	552.1	534.4	522.6	514.2	509.7	508.6	508.2	510.8
45°	602.1	566.6	533.3	511.8	496.8	484.9	480.2	476.4	476.4	478.6	479.1
47.5°	555.1	521.9	495.2	471.1	457.4	450.0	445.8	443.8	444.0	446.3	448.7
50°	526.3	493.6	467.3	445.8	432.9	425.9	422.1	421.1	422.1	422.1	425.9
52.5°	494.9	465.6	439.8	421.7	407.1	400.5	398.5	397.0	397.7	399.4	401.0
55°	449.0	422.7	398.0	380.8	370.0	365.8	360.9	361.4	360.4	361.4	361.4
57.5°	402.9	379.3	356.3	342.6	333.3	327.0	321.7	323.3	321.6	321.4	320.5
60°	373.2	347.5	329.2	316.9	306.1	300.7	295.9	297.0	295.4	294.3	292.2
62.5°	341.0	319.5	302.2	290.2	281.7	275.4	270.5	269.5	265.8	262.1	257.4
65°	294.3	276.6	261.1	249.7	241.7	236.8	233.1	229.8	221.8	213.2	208.9
67.5°	248.9	236.1	221.6	212.1	205.5	199.1	192.0	186.5	178.9	174.2	171.6
70°	219.6	207.3	195.0	185.8	178.8	173.0	164.9	161.2	155.7	153.6	150.9
72.5°	191.8	180.3	168.7	160.5	153.1	148.5	142.1	138.4	136.0	135.1	132.5
75°	149.4	140.2	131.6	124.1	118.2	114.9	112.3	109.6	108.5	103.6	101.0
77.5°	109.0	102.9	97.6	92.2	88.0	85.8	80.7	77.6	75.7	73.5	72.9
80°	84.8	80.6	75.2	72.0	66.0	63.9	61.8	61.2	60.7	60.2	59.6
82.5°	63.8	59.5	54.1	52.2	50.6	49.3	48.0	47.5	47.0	47.3	47.2
85°	32.2	30.1	30.1	29.6	29.0	28.5	28.0	28.0	27.4	28.0	27.4
87.5°	14.1	14.2	14.6	14.2	15.1	15.7	15.6	16.0	16.7	16.2	16.5
90°	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3	34.0	35.7	37.0
92.5°	42.7	45.3	47.0	48.6	50.2	51.9	52.9	53.9	55.0	56.0	56.8
95°	89.1	91.4	93.4	95.4	97.5	99.6	100.4	101.3	102.2	103.0	103.5
97.5°	145.6	147.8	150.3	152.7	155.0	157.4	158.4	159.6	160.6	161.6	162.2
100°	188.0	189.9	192.5	195.1	197.7	200.4	201.0	201.6	202.2	202.7	203.0
102.5°	233.4	234.8	237.2	239.6	242.0	244.4	245.2	246.0	246.8	247.6	248.1
105°	306.3	307.0	308.2	309.4	310.5	311.7	312.6	313.5	314.4	315.2	316.1
107.5°	383.8	384.1	384.3	384.5	384.7	384.8	385.6	386.4	387.2	388.1	388.4
110°	437.2	437.3	437.0	436.7	436.5	436.2	435.6	434.9	434.3	433.8	433.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	489.8	489.6	489.1	488.5	488.0	487.5	487.4	487.3	487.2	487.0	487.1
115°	571.0	570.8	570.2	569.6	569.0	568.4	568.2	567.8	567.5	567.2	566.9
117.5°	648.9	648.8	648.4	648.0	647.6	647.2	646.2	645.3	644.3	643.3	642.5
120°	704.0	704.2	703.3	702.5	701.6	700.6	699.2	697.8	696.3	694.9	694.4
122.5°	754.7	754.7	754.3	753.9	753.5	753.1	752.0	751.0	750.1	749.1	748.1
125°	831.6	831.5	831.2	830.9	830.6	830.3	829.7	829.2	828.6	828.0	827.4
127.5°	906.7	906.9	906.4	905.9	905.4	904.9	904.4	903.8	903.2	902.6	902.1
130°	956.9	957.4	957.4	957.4	957.4	957.4	956.7	956.2	955.6	955.0	954.2
132.5°	1007.3	1007.5	1007.3	1007.0	1006.8	1006.6	1006.0	1005.4	1004.9	1004.3	1003.8
135°	1079.6	1080.5	1080.5	1080.5	1080.5	1080.5	1079.9	1079.3	1078.7	1078.1	1077.4
137.5°	1149.7	1150.4	1150.8	1151.3	1151.8	1152.3	1151.4	1150.7	1150.0	1149.2	1148.9
140°	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.8	1197.5	1197.2	1196.9
142.5°	1243.1	1243.2	1243.0	1242.8	1242.6	1242.3	1242.3	1242.2	1242.2	1242.1	1242.0
145°	1307.8	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4	1309.1	1308.8	1308.5	1308.0
147.5°	1370.5	1371.1	1370.9	1370.7	1370.4	1370.2	1370.0	1369.7	1369.5	1369.3	1369.0
150°	1407.3	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.8
152.5°	1441.1	1441.6	1441.8	1442.0	1442.3	1442.5	1443.2	1443.9	1444.6	1445.3	1445.2
155°	1493.0	1492.9	1492.6	1492.3	1492.0	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4
157.5°	1537.0	1536.7	1536.7	1536.6	1536.6	1536.5	1537.4	1538.2	1539.1	1540.0	1539.9
160°	1565.2	1564.9	1564.6	1564.4	1564.1	1563.8	1564.6	1565.5	1566.4	1567.2	1566.9
162.5°	1588.5	1588.0	1587.7	1587.4	1587.1	1586.8	1588.4	1589.9	1591.5	1593.1	1593.2
165°	1621.8	1621.1	1620.5	1619.9	1619.3	1618.7	1620.5	1622.2	1624.0	1625.8	1626.1
167.5°	1646.4	1645.8	1645.9	1645.9	1646.0	1646.0	1647.8	1649.5	1651.2	1652.9	1652.9
170°	1660.1	1659.5	1659.8	1660.1	1660.4	1660.6	1662.4	1664.2	1665.9	1667.7	1667.5
172.5°	1671.5	1670.9	1671.0	1671.0	1671.1	1671.1	1673.1	1675.1	1677.1	1679.1	1679.0
175°	1685.0	1684.1	1683.8	1683.5	1683.2	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1
177.5°	1690.8	1690.3	1690.3	1690.3	1690.3	1690.3	1691.9	1693.5	1695.2	1696.8	1696.7
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1272.4	1273.3	1270.3	1269.4	1270.3	1273.3	1272.4	1275.1	1275.5	1278.9	1277.6
5°	1180.5	1179.4	1176.8	1177.3	1176.8	1179.4	1180.5	1184.8	1187.0	1195.6	1194.5
7.5°	1101.9	1097.7	1098.8	1094.6	1098.8	1097.7	1101.9	1105.7	1112.3	1116.2	1125.3
10°	1053.8	1047.8	1043.0	1038.7	1043.0	1047.8	1053.8	1055.9	1065.0	1069.3	1078.4
12.5°	988.1	983.0	976.4	977.8	976.4	983.0	988.1	997.4	1009.2	1018.2	1032.5
15°	894.7	886.8	873.8	875.5	873.8	886.8	894.7	901.8	913.6	934.0	943.6
17.5°	815.9	816.0	810.0	811.4	810.0	816.0	815.9	825.4	831.4	844.4	859.2
20°	775.0	771.2	771.7	770.2	771.7	771.2	775.0	786.3	792.7	801.8	818.0
22.5°	746.7	742.0	738.3	735.0	738.3	742.0	746.7	749.7	758.4	767.1	780.1
25°	698.7	695.5	690.6	689.6	690.6	695.5	698.7	703.6	707.9	719.1	727.2
27.5°	656.6	656.0	654.1	651.6	654.1	656.0	656.6	661.0	666.5	673.7	683.9
30°	632.2	631.1	630.0	628.3	630.0	631.1	632.2	636.4	640.8	646.6	654.7
32.5°	610.3	609.6	608.5	608.6	608.5	609.6	610.3	612.4	615.0	622.6	628.9
35°	579.0	578.5	577.3	576.8	577.3	578.5	579.0	581.1	582.7	584.9	590.3
37.5°	549.8	551.2	550.5	550.4	550.5	551.2	549.8	550.3	548.6	552.4	556.1
40°	529.6	530.1	531.2	530.7	531.2	530.1	529.6	530.1	530.1	530.1	533.3
42.5°	512.8	512.9	514.4	512.6	514.4	512.9	512.8	510.8	508.2	508.6	509.7
45°	482.8	486.0	485.5	485.5	485.5	486.0	482.8	479.1	478.6	476.4	476.4
47.5°	450.1	452.8	453.6	453.5	453.6	452.8	450.1	448.7	446.3	444.0	443.8
50°	428.6	427.5	429.1	428.6	429.1	427.5	428.6	425.9	422.1	422.1	421.1
52.5°	402.4	402.6	402.5	401.9	402.5	402.6	402.4	401.0	399.4	397.7	397.0
55°	362.0	362.5	361.4	362.0	361.4	362.5	362.0	361.4	361.4	360.4	361.4
57.5°	318.2	315.6	316.7	315.4	316.7	315.6	318.2	320.5	321.4	321.6	323.3
60°	286.8	282.5	281.4	279.3	281.4	282.5	286.8	292.2	294.3	295.4	297.0
62.5°	251.6	248.5	244.9	246.6	244.9	248.5	251.6	257.4	262.1	265.8	269.5
65°	204.6	202.5	200.9	203.0	200.9	202.5	204.6	208.9	213.2	221.8	229.8
67.5°	169.4	168.2	168.2	167.1	168.2	168.2	169.4	171.6	174.2	178.9	186.5
70°	150.9	149.4	149.4	148.2	149.4	149.4	150.9	150.9	153.6	155.7	161.2
72.5°	132.0	130.4	130.9	130.2	130.9	130.4	132.0	132.5	135.1	136.0	138.4
75°	97.8	95.0	95.0	95.6	95.0	95.0	97.8	101.0	103.6	108.5	109.6
77.5°	72.9	72.4	73.1	72.2	73.1	72.4	72.9	72.9	73.5	75.7	77.6
80°	59.6	59.1	58.6	60.2	58.6	59.1	59.6	59.6	60.2	60.7	61.2
82.5°	46.3	46.2	46.0	48.2	46.0	46.2	46.3	47.2	47.3	47.0	47.5
85°	28.0	26.9	28.0	26.9	28.0	26.9	28.0	27.4	28.0	27.4	28.0
87.5°	17.4	17.1	16.8	17.3	16.8	17.1	17.4	16.5	16.2	16.7	16.0
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	35.7	34.0	32.3
92.5°	57.1	57.5	57.8	58.2	57.8	57.5	57.1	56.8	56.0	55.0	53.9
95°	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.0	102.2	101.3
97.5°	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	161.6	160.6	159.6
100°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	202.7	202.2	201.6
102.5°	248.4	248.6	248.8	249.1	248.8	248.6	248.4	248.1	247.6	246.8	246.0
105°	316.9	317.8	318.7	319.5	318.7	317.8	316.9	316.1	315.2	314.4	313.5
107.5°	388.4	388.3	388.3	388.2	388.3	388.3	388.4	388.4	388.1	387.2	386.4
110°	434.8	435.7	436.6	437.5	436.6	435.7	434.8	433.9	433.8	434.3	434.9



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	487.2	487.4	487.6	487.8	487.6	487.4	487.2	487.1	487.0	487.2	487.3
115°	566.6	566.3	566.0	565.8	566.0	566.3	566.6	566.9	567.2	567.5	567.8
117.5°	641.9	641.4	640.8	640.2	640.8	641.4	641.9	642.5	643.3	644.3	645.3
120°	695.0	695.6	696.2	696.7	696.2	695.6	695.0	694.4	694.9	696.3	697.8
122.5°	747.0	746.0	745.0	743.9	745.0	746.0	747.0	748.1	749.1	750.1	751.0
125°	826.9	826.3	825.7	825.1	825.7	826.3	826.9	827.4	828.0	828.6	829.2
127.5°	901.7	901.2	900.7	900.3	900.7	901.2	901.7	902.1	902.6	903.2	903.8
130°	953.0	951.8	950.7	949.5	950.7	951.8	953.0	954.2	955.0	955.6	956.2
132.5°	1003.3	1002.8	1002.4	1001.9	1002.4	1002.8	1003.3	1003.8	1004.3	1004.9	1005.4
135°	1076.5	1075.7	1074.8	1073.9	1074.8	1075.7	1076.5	1077.4	1078.1	1078.7	1079.3
137.5°	1149.1	1149.3	1149.4	1149.6	1149.4	1149.3	1149.1	1148.9	1149.2	1150.0	1150.7
140°	1196.6	1196.3	1196.0	1195.8	1196.0	1196.3	1196.6	1196.9	1197.2	1197.5	1197.8
142.5°	1242.0	1241.9	1241.9	1241.8	1241.9	1241.9	1242.0	1242.0	1242.1	1242.2	1242.2
145°	1307.1	1306.2	1305.4	1304.4	1305.4	1306.2	1307.1	1308.0	1308.5	1308.8	1309.1
147.5°	1368.7	1368.4	1368.2	1367.9	1368.2	1368.4	1368.7	1369.0	1369.3	1369.5	1369.7
150°	1407.4	1407.1	1406.8	1406.6	1406.8	1407.1	1407.4	1407.8	1407.9	1407.9	1407.9
152.5°	1444.5	1443.7	1443.0	1442.2	1443.0	1443.7	1444.5	1445.2	1445.3	1444.6	1443.9
155°	1495.2	1494.1	1492.9	1491.8	1492.9	1494.1	1495.2	1496.4	1496.4	1495.2	1494.1
157.5°	1538.9	1537.9	1537.0	1536.0	1537.0	1537.9	1538.9	1539.9	1540.0	1539.1	1538.2
160°	1565.5	1564.1	1562.6	1561.2	1562.6	1564.1	1565.5	1566.9	1567.2	1566.4	1565.5
162.5°	1591.6	1590.2	1588.8	1587.3	1588.8	1590.2	1591.6	1593.2	1593.1	1591.5	1589.9
165°	1624.9	1623.7	1622.6	1621.3	1622.6	1623.7	1624.9	1626.1	1625.8	1624.0	1622.2
167.5°	1651.1	1649.3	1647.6	1645.8	1647.6	1649.3	1651.1	1652.9	1652.9	1651.2	1649.5
170°	1665.5	1663.4	1661.4	1659.4	1661.4	1663.4	1665.5	1667.5	1667.7	1665.9	1664.2
172.5°	1677.0	1675.0	1672.9	1670.9	1672.9	1675.0	1677.0	1679.0	1679.1	1677.1	1675.1
175°	1689.0	1687.0	1685.0	1682.9	1685.0	1687.0	1689.0	1691.1	1691.1	1689.0	1687.0
177.5°	1694.9	1692.9	1691.1	1689.2	1691.1	1692.9	1694.9	1696.7	1696.8	1695.2	1693.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1275.1	1278.1	1285.0	1292.6	1299.1	1304.6	1309.0	1314.9	1320.6	1328.3	1335.6
5°	1197.7	1205.2	1216.0	1228.8	1245.0	1255.7	1269.1	1280.9	1298.1	1315.3	1332.0
7.5°	1129.8	1138.1	1153.9	1171.7	1190.8	1208.4	1224.4	1245.2	1268.0	1292.9	1320.9
10°	1086.0	1095.1	1113.9	1134.3	1156.9	1174.1	1195.6	1220.2	1246.1	1276.7	1311.0
12.5°	1046.4	1055.1	1077.8	1098.6	1122.1	1140.9	1165.9	1191.0	1225.4	1258.6	1297.7
15°	969.5	992.5	1018.3	1043.0	1071.0	1094.1	1124.1	1149.9	1182.7	1229.4	1273.9
17.5°	883.9	908.6	940.6	978.7	1016.1	1044.7	1075.2	1107.2	1146.2	1194.0	1245.4
20°	834.0	853.9	889.4	931.8	975.3	1015.1	1043.0	1078.4	1118.7	1170.3	1223.5
22.5°	796.7	813.5	841.3	883.7	930.7	976.8	1012.5	1047.5	1092.1	1143.7	1201.5
25°	740.6	758.9	783.0	812.0	865.8	914.6	961.4	1001.7	1048.9	1100.4	1165.0
27.5°	694.0	709.9	732.1	762.2	798.3	852.2	908.9	954.8	1003.3	1058.6	1123.2
30°	666.5	679.4	697.7	728.3	762.7	811.0	868.5	922.2	971.1	1028.5	1095.6
32.5°	637.7	651.5	669.3	693.5	730.4	771.0	828.5	887.4	939.3	998.0	1063.9
35°	599.4	610.2	626.2	651.0	684.3	719.7	770.7	831.4	886.2	949.1	1011.9
37.5°	560.6	573.3	585.9	607.9	635.3	673.4	715.2	777.2	837.9	895.2	956.5
40°	538.7	546.2	560.2	577.9	606.9	640.8	679.9	740.6	801.3	858.3	920.0
42.5°	514.2	522.6	534.4	552.1	578.1	611.1	649.4	702.0	765.3	820.4	876.7
45°	480.2	484.9	496.8	511.8	533.3	566.6	602.1	648.8	708.4	761.0	810.4
47.5°	445.8	450.0	457.4	471.1	495.2	521.9	555.1	597.0	649.3	702.0	743.8
50°	422.1	425.9	432.9	445.8	467.3	493.6	526.3	563.9	610.7	661.2	696.1
52.5°	398.5	400.5	407.1	421.7	439.8	465.6	494.9	529.6	573.3	615.2	650.6
55°	360.9	365.8	370.0	380.8	398.0	422.7	449.0	481.8	515.6	551.1	581.1
57.5°	321.7	327.0	333.3	342.6	356.3	379.3	402.9	429.5	458.4	487.8	513.0
60°	295.9	300.7	306.1	316.9	329.2	347.5	373.2	396.4	418.4	445.2	470.5
62.5°	270.5	275.4	281.7	290.2	302.2	319.5	341.0	361.1	384.1	407.5	426.3
65°	233.1	236.8	241.7	249.7	261.1	276.6	294.3	309.9	330.3	347.5	364.7
67.5°	192.0	199.1	205.5	212.1	221.6	236.1	248.9	263.8	277.7	290.4	306.1
70°	164.9	173.0	178.8	185.8	195.0	207.3	219.6	229.8	241.2	253.5	267.5
72.5°	142.1	148.5	153.1	160.5	168.7	180.3	191.8	200.3	209.3	217.8	231.4
75°	112.3	114.9	118.2	124.1	131.6	140.2	149.4	156.8	162.2	169.8	179.4
77.5°	80.7	85.8	88.0	92.2	97.6	102.9	109.0	115.2	120.4	123.1	130.5
80°	61.8	63.9	66.0	72.0	75.2	80.6	84.8	90.8	92.9	95.6	102.6
82.5°	48.0	49.3	50.6	52.2	54.1	59.5	63.8	67.6	69.7	70.7	75.9
85°	28.0	28.5	29.0	29.6	30.1	30.1	32.2	34.9	38.7	38.7	40.3
87.5°	15.6	15.7	15.1	14.2	14.6	14.2	14.1	13.4	14.1	14.7	15.3
90°	30.6	28.8	26.5	24.1	21.8	19.5	16.8	13.5	10.3	7.2	3.9
92.5°	52.9	51.9	50.2	48.6	47.0	45.3	42.7	39.0	35.3	31.7	28.1
95°	100.4	99.6	97.5	95.4	93.4	91.4	89.1	86.4	83.8	81.2	78.6
97.5°	158.4	157.4	155.0	152.7	150.3	147.8	145.6	143.5	141.5	139.4	137.2
100°	201.0	200.4	197.7	195.1	192.5	189.9	188.0	186.8	185.7	184.5	183.4
102.5°	245.2	244.4	242.0	239.6	237.2	234.8	233.4	233.0	232.5	232.1	231.6
105°	312.6	311.7	310.5	309.4	308.2	307.0	306.3	306.0	305.8	305.5	305.2
107.5°	385.6	384.8	384.7	384.5	384.3	384.1	383.8	383.4	383.1	382.7	382.4
110°	435.6	436.2	436.5	436.7	437.0	437.3	437.2	436.6	436.0	435.4	434.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	487.4	487.5	488.0	488.5	489.1	489.6	489.8	489.7	489.5	489.4	489.3
115°	568.2	568.4	569.0	569.6	570.2	570.8	571.0	571.0	571.0	571.0	571.0
117.5°	646.2	647.2	647.6	648.0	648.4	648.8	648.9	648.7	648.5	648.2	648.0
120°	699.2	700.6	701.6	702.5	703.3	704.2	704.0	702.9	701.7	700.5	699.3
122.5°	752.0	753.1	753.5	753.9	754.3	754.7	754.7	754.2	753.8	753.3	752.8
125°	829.7	830.3	830.6	830.9	831.2	831.5	831.6	831.6	831.6	831.6	831.6
127.5°	904.4	904.9	905.4	905.9	906.4	906.9	906.7	905.7	904.9	904.0	903.1
130°	956.7	957.4	957.4	957.4	957.4	957.4	956.9	956.0	955.2	954.3	953.4
132.5°	1006.0	1006.6	1006.8	1007.0	1007.3	1007.5	1007.3	1006.7	1006.0	1005.4	1004.8
135°	1079.9	1080.5	1080.5	1080.5	1080.5	1080.5	1079.6	1077.8	1076.1	1074.4	1072.6
137.5°	1151.4	1152.3	1151.8	1151.3	1150.8	1150.4	1149.7	1148.9	1148.1	1147.3	1146.5
140°	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.5	1196.9	1196.3	1195.8
142.5°	1242.3	1242.3	1242.6	1242.8	1243.0	1243.2	1243.1	1242.5	1241.9	1241.3	1240.8
145°	1309.4	1309.7	1309.4	1309.1	1308.8	1308.5	1307.8	1306.7	1305.5	1304.3	1303.1
147.5°	1370.0	1370.2	1370.4	1370.7	1370.9	1371.1	1370.5	1369.2	1367.8	1366.3	1364.9
150°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.3	1406.1	1405.0	1403.8	1402.7
152.5°	1443.2	1442.5	1442.3	1442.0	1441.8	1441.6	1441.1	1440.4	1439.7	1439.0	1438.2
155°	1492.9	1491.8	1492.0	1492.3	1492.6	1492.9	1493.0	1493.0	1493.0	1493.0	1493.0
157.5°	1537.4	1536.5	1536.6	1536.6	1536.7	1536.7	1537.0	1537.5	1538.1	1538.6	1539.1
160°	1564.6	1563.8	1564.1	1564.4	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.4
162.5°	1588.4	1586.8	1587.1	1587.4	1587.7	1588.0	1588.5	1589.2	1590.0	1590.7	1591.5
165°	1620.5	1618.7	1619.3	1619.9	1620.5	1621.1	1621.8	1622.7	1623.6	1624.5	1625.3
167.5°	1647.8	1646.0	1646.0	1645.9	1645.9	1645.8	1646.4	1647.6	1648.8	1650.0	1651.2
170°	1662.4	1660.6	1660.4	1660.1	1659.8	1659.5	1660.1	1661.5	1663.0	1664.5	1665.9
172.5°	1673.1	1671.1	1671.1	1671.0	1671.0	1670.9	1671.5	1672.7	1674.0	1675.2	1676.4
175°	1685.0	1682.9	1683.2	1683.5	1683.8	1684.1	1685.0	1686.5	1687.9	1689.3	1690.8
177.5°	1691.9	1690.3	1690.3	1690.3	1690.3	1690.3	1690.8	1692.0	1693.1	1694.4	1695.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1341.2	1345.0	1349.4	1357.6	1364.4	1367.5	1373.4	1377.8	1376.4	1382.4	1392.8
5°	1346.5	1361.0	1377.7	1394.8	1414.1	1430.3	1443.1	1456.0	1466.2	1478.5	1496.8
7.5°	1345.6	1371.4	1399.5	1430.3	1462.0	1489.3	1514.7	1540.4	1563.4	1588.4	1621.1
10°	1342.2	1376.5	1411.5	1451.8	1492.0	1530.1	1564.5	1596.8	1627.4	1660.1	1701.5
12.5°	1338.3	1377.9	1420.1	1468.4	1518.6	1564.5	1604.9	1651.3	1689.7	1731.9	1779.7
15°	1321.2	1374.4	1431.9	1494.7	1554.9	1616.6	1671.9	1728.9	1782.0	1832.5	1892.7
17.5°	1301.7	1363.0	1430.8	1505.0	1577.3	1652.3	1718.0	1789.8	1844.1	1911.9	1967.7
20°	1285.8	1351.8	1424.3	1507.6	1589.7	1673.0	1745.6	1818.6	1879.8	1948.0	2018.9
22.5°	1266.5	1339.0	1417.4	1503.7	1589.7	1680.7	1761.0	1833.6	1909.5	1986.2	2059.3
25°	1235.3	1310.5	1393.7	1488.2	1587.1	1680.0	1766.0	1856.1	1937.8	2021.0	2086.6
27.5°	1197.1	1276.0	1363.7	1461.3	1562.7	1657.9	1759.1	1855.2	1937.3	2017.5	2074.7
30°	1166.5	1249.8	1334.1	1432.9	1538.2	1640.2	1748.8	1844.9	1931.4	2003.4	2035.6
32.5°	1135.2	1214.2	1301.0	1401.2	1508.9	1618.8	1726.4	1824.7	1904.7	1947.9	1948.7
35°	1080.7	1154.7	1245.0	1343.2	1453.9	1573.2	1682.1	1778.8	1827.7	1831.5	1778.8
37.5°	1021.1	1089.1	1174.3	1272.6	1393.8	1512.5	1623.9	1688.3	1704.6	1649.9	1552.6
40°	978.6	1041.4	1123.6	1224.6	1344.8	1467.3	1568.8	1616.1	1598.9	1510.3	1401.8
42.5°	933.9	992.4	1071.6	1171.2	1292.0	1415.7	1502.2	1527.6	1482.1	1379.7	1252.7
45°	860.9	914.6	993.1	1093.5	1209.5	1325.5	1391.1	1378.2	1302.4	1181.0	1038.7
47.5°	785.0	836.9	907.5	1000.4	1119.1	1219.3	1263.6	1224.8	1117.0	983.5	867.7
50°	734.8	787.9	852.9	941.5	1050.0	1146.7	1175.2	1116.1	996.3	867.9	761.5
52.5°	685.3	730.7	794.5	880.1	983.8	1065.5	1080.7	1012.5	888.9	773.9	679.5
55°	610.2	651.5	705.2	785.8	875.5	944.7	936.6	849.1	736.9	638.6	564.5
57.5°	537.5	568.6	618.1	693.7	772.4	818.9	789.5	714.9	610.3	529.8	467.3
60°	489.3	518.3	564.5	630.6	699.8	726.1	701.5	620.4	537.7	464.0	411.4
62.5°	443.7	469.3	509.1	570.4	626.3	642.0	615.5	544.7	470.2	407.3	363.8
65°	377.6	401.2	435.0	478.6	517.3	524.7	507.6	435.0	378.6	326.0	295.9
67.5°	317.5	333.0	359.4	397.0	417.6	421.9	388.7	343.2	293.5	261.2	238.4
70°	277.1	287.9	312.6	333.0	349.6	350.2	319.5	283.1	244.9	218.6	202.0
72.5°	238.0	248.3	267.0	281.0	293.8	289.6	261.6	232.8	202.0	182.1	169.8
75°	183.7	192.8	202.5	208.9	208.9	203.6	183.2	161.7	143.9	132.1	128.4
77.5°	133.5	141.1	144.3	143.3	141.4	133.0	120.1	106.0	99.7	94.1	91.3
80°	104.7	108.0	109.1	106.3	103.1	93.4	84.8	79.0	73.0	70.9	69.8
82.5°	77.7	80.5	77.7	78.4	71.3	63.4	58.7	56.7	54.1	53.3	52.2
85°	41.4	40.8	39.8	37.1	32.2	31.1	30.6	30.1	29.0	29.6	28.5
87.5°	15.7	14.9	13.8	14.1	14.6	14.2	15.1	15.7	16.1	16.0	17.2
90°	7.2	10.3	13.5	16.8	19.5	21.8	24.1	26.5	28.8	30.6	32.3
92.5°	31.7	35.3	39.0	42.7	45.3	47.0	48.6	50.2	51.9	52.9	53.9
95°	81.2	83.8	86.4	89.1	91.4	93.4	95.4	97.5	99.6	100.4	101.3
97.5°	139.4	141.5	143.5	145.6	147.8	150.3	152.7	155.0	157.4	158.4	159.6
100°	184.5	185.7	186.8	188.0	189.9	192.5	195.1	197.7	200.4	201.0	201.6
102.5°	232.1	232.5	233.0	233.4	234.8	237.2	239.6	242.0	244.4	245.2	246.0
105°	305.5	305.8	306.0	306.3	307.0	308.2	309.4	310.5	311.7	312.6	313.5
107.5°	382.7	383.1	383.4	383.8	384.1	384.3	384.5	384.7	384.8	385.6	386.4
110°	435.4	436.0	436.6	437.2	437.3	437.0	436.7	436.5	436.2	435.6	434.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	489.4	489.5	489.7	489.8	489.6	489.1	488.5	488.0	487.5	487.4	487.3
115°	571.0	571.0	571.0	571.0	570.8	570.2	569.6	569.0	568.4	568.2	567.8
117.5°	648.2	648.5	648.7	648.9	648.8	648.4	648.0	647.6	647.2	646.2	645.3
120°	700.5	701.7	702.9	704.0	704.2	703.3	702.5	701.6	700.6	699.2	697.8
122.5°	753.3	753.8	754.2	754.7	754.7	754.3	753.9	753.5	753.1	752.0	751.0
125°	831.6	831.6	831.6	831.6	831.5	831.2	830.9	830.6	830.3	829.7	829.2
127.5°	904.0	904.9	905.7	906.7	906.9	906.4	905.9	905.4	904.9	904.4	903.8
130°	954.3	955.2	956.0	956.9	957.4	957.4	957.4	957.4	957.4	956.7	956.2
132.5°	1005.4	1006.0	1006.7	1007.3	1007.5	1007.3	1007.0	1006.8	1006.6	1006.0	1005.4
135°	1074.4	1076.1	1077.8	1079.6	1080.5	1080.5	1080.5	1080.5	1080.5	1079.9	1079.3
137.5°	1147.3	1148.1	1148.9	1149.7	1150.4	1150.8	1151.3	1151.8	1152.3	1151.4	1150.7
140°	1196.3	1196.9	1197.5	1198.1	1198.3	1198.3	1198.3	1198.3	1198.3	1198.1	1197.8
142.5°	1241.3	1241.9	1242.5	1243.1	1243.2	1243.0	1242.8	1242.6	1242.3	1242.3	1242.2
145°	1304.3	1305.5	1306.7	1307.8	1308.5	1308.8	1309.1	1309.4	1309.7	1309.4	1309.1
147.5°	1366.3	1367.8	1369.2	1370.5	1371.1	1370.9	1370.7	1370.4	1370.2	1370.0	1369.7
150°	1403.8	1405.0	1406.1	1407.3	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
152.5°	1439.0	1439.7	1440.4	1441.1	1441.6	1441.8	1442.0	1442.3	1442.5	1443.2	1443.9
155°	1493.0	1493.0	1493.0	1493.0	1492.9	1492.6	1492.3	1492.0	1491.8	1492.9	1494.1
157.5°	1538.6	1538.1	1537.5	1537.0	1536.7	1536.7	1536.6	1536.6	1536.5	1537.4	1538.2
160°	1566.1	1565.8	1565.5	1565.2	1564.9	1564.6	1564.4	1564.1	1563.8	1564.6	1565.5
162.5°	1590.7	1590.0	1589.2	1588.5	1588.0	1587.7	1587.4	1587.1	1586.8	1588.4	1589.9
165°	1624.5	1623.6	1622.7	1621.8	1621.1	1620.5	1619.9	1619.3	1618.7	1620.5	1622.2
167.5°	1650.0	1648.8	1647.6	1646.4	1645.8	1645.9	1645.9	1646.0	1646.0	1647.8	1649.5
170°	1664.5	1663.0	1661.5	1660.1	1659.5	1659.8	1660.1	1660.4	1660.6	1662.4	1664.2
172.5°	1675.2	1674.0	1672.7	1671.5	1670.9	1671.0	1671.0	1671.1	1671.1	1673.1	1675.1
175°	1689.3	1687.9	1686.5	1685.0	1684.1	1683.8	1683.5	1683.2	1682.9	1685.0	1687.0
177.5°	1694.4	1693.1	1692.0	1690.8	1690.3	1690.3	1690.3	1690.3	1690.3	1691.9	1693.5
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1398.4	1400.1	1401.4	1405.6	1406.0	1410.0	1406.0
5°	1514.0	1521.6	1533.4	1545.2	1546.3	1553.8	1540.3
7.5°	1643.8	1661.2	1672.0	1691.1	1698.7	1703.4	1695.7
10°	1733.1	1749.3	1777.8	1791.7	1805.6	1807.9	1801.4
12.5°	1819.6	1845.1	1867.5	1894.0	1893.3	1912.3	1905.3
15°	1934.6	1960.9	1992.1	2021.5	2032.4	2032.4	2040.9
17.5°	2016.6	2064.9	2097.1	2120.3	2145.7	2150.0	2147.1
20°	2072.0	2124.2	2158.6	2188.6	2205.8	2210.6	2210.6
22.5°	2113.3	2157.7	2191.2	2218.3	2232.4	2238.2	2236.4
25°	2141.9	2180.0	2200.4	2208.5	2212.2	2211.2	2201.0
27.5°	2102.7	2101.0	2088.2	2063.5	2044.9	2033.6	2020.7
30°	2028.0	2000.1	1967.9	1932.4	1886.7	1851.9	1841.1
32.5°	1916.7	1854.0	1799.5	1740.4	1691.3	1656.4	1641.7
35°	1701.5	1602.2	1521.1	1450.2	1398.6	1366.3	1355.6
37.5°	1446.0	1349.9	1249.5	1180.7	1138.0	1105.4	1093.3
40°	1283.6	1178.9	1091.4	1026.9	982.9	951.2	950.7
42.5°	1135.4	1035.4	953.0	906.6	859.1	838.2	838.1
45°	929.7	849.7	779.8	743.4	714.9	697.7	692.9
47.5°	769.7	703.6	657.0	627.9	604.7	593.8	586.7
50°	679.9	622.0	584.9	559.7	546.7	532.8	531.7
52.5°	605.2	558.4	529.5	509.0	492.6	484.2	484.4
55°	508.6	471.6	451.1	435.6	422.7	416.3	413.5
57.5°	428.5	400.7	385.9	371.5	366.1	361.0	359.6
60°	378.6	359.8	345.9	334.6	326.6	325.0	324.4
62.5°	337.4	317.7	308.1	299.3	293.5	290.9	290.0
65°	278.2	263.7	255.1	248.1	246.0	242.3	241.7
67.5°	224.3	215.6	209.8	205.1	202.2	202.0	202.0
70°	191.2	186.3	181.6	178.8	177.2	176.1	176.1
72.5°	162.9	159.3	155.3	153.9	153.6	152.5	152.1
75°	124.1	120.3	120.9	118.2	116.0	113.3	111.7
77.5°	88.0	85.3	84.7	84.4	82.6	82.3	83.1
80°	68.2	65.5	65.0	65.5	65.0	63.4	63.4
82.5°	51.9	49.6	49.1	48.8	48.3	48.8	47.9
85°	28.0	26.9	26.9	26.9	28.0	27.4	26.9
87.5°	16.7	16.6	17.3	17.0	17.1	16.8	17.3
90°	34.0	35.7	37.0	37.6	38.2	38.7	39.3
92.5°	55.0	56.0	56.8	57.1	57.5	57.8	58.2
95°	102.2	103.0	103.5	103.5	103.5	103.5	103.5
97.5°	160.6	161.6	162.2	162.2	162.2	162.2	162.2
100°	202.2	202.7	203.0	203.0	203.0	203.0	203.0
102.5°	246.8	247.6	248.1	248.4	248.6	248.8	249.1
105°	314.4	315.2	316.1	316.9	317.8	318.7	319.5
107.5°	387.2	388.1	388.4	388.4	388.3	388.3	388.2
110°	434.3	433.8	433.9	434.8	435.7	436.6	437.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	487.2	487.0	487.1	487.2	487.4	487.6	487.8
115°	567.5	567.2	566.9	566.6	566.3	566.0	565.8
117.5°	644.3	643.3	642.5	641.9	641.4	640.8	640.2
120°	696.3	694.9	694.4	695.0	695.6	696.2	696.7
122.5°	750.1	749.1	748.1	747.0	746.0	745.0	743.9
125°	828.6	828.0	827.4	826.9	826.3	825.7	825.1
127.5°	903.2	902.6	902.1	901.7	901.2	900.7	900.3
130°	955.6	955.0	954.2	953.0	951.8	950.7	949.5
132.5°	1004.9	1004.3	1003.8	1003.3	1002.8	1002.4	1001.9
135°	1078.7	1078.1	1077.4	1076.5	1075.7	1074.8	1073.9
137.5°	1150.0	1149.2	1148.9	1149.1	1149.3	1149.4	1149.6
140°	1197.5	1197.2	1196.9	1196.6	1196.3	1196.0	1195.8
142.5°	1242.2	1242.1	1242.0	1242.0	1241.9	1241.9	1241.8
145°	1308.8	1308.5	1308.0	1307.1	1306.2	1305.4	1304.4
147.5°	1369.5	1369.3	1369.0	1368.7	1368.4	1368.2	1367.9
150°	1407.9	1407.9	1407.8	1407.4	1407.1	1406.8	1406.6
152.5°	1444.6	1445.3	1445.2	1444.5	1443.7	1443.0	1442.2
155°	1495.2	1496.4	1496.4	1495.2	1494.1	1492.9	1491.8
157.5°	1539.1	1540.0	1539.9	1538.9	1537.9	1537.0	1536.0
160°	1566.4	1567.2	1566.9	1565.5	1564.1	1562.6	1561.2
162.5°	1591.5	1593.1	1593.2	1591.6	1590.2	1588.8	1587.3
165°	1624.0	1625.8	1626.1	1624.9	1623.7	1622.6	1621.3
167.5°	1651.2	1652.9	1652.9	1651.1	1649.3	1647.6	1645.8
170°	1665.9	1667.7	1667.5	1665.5	1663.4	1661.4	1659.4
172.5°	1677.1	1679.1	1679.0	1677.0	1675.0	1672.9	1670.9
175°	1689.0	1691.1	1691.1	1689.0	1687.0	1685.0	1682.9
177.5°	1695.2	1696.8	1696.7	1694.9	1692.9	1691.1	1689.2
180°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4

(END OF REPORT)