

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: P332204-935

Luminaire Tested: **S123DIW-S1000D1535U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332204-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1000D1535U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8938.2 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

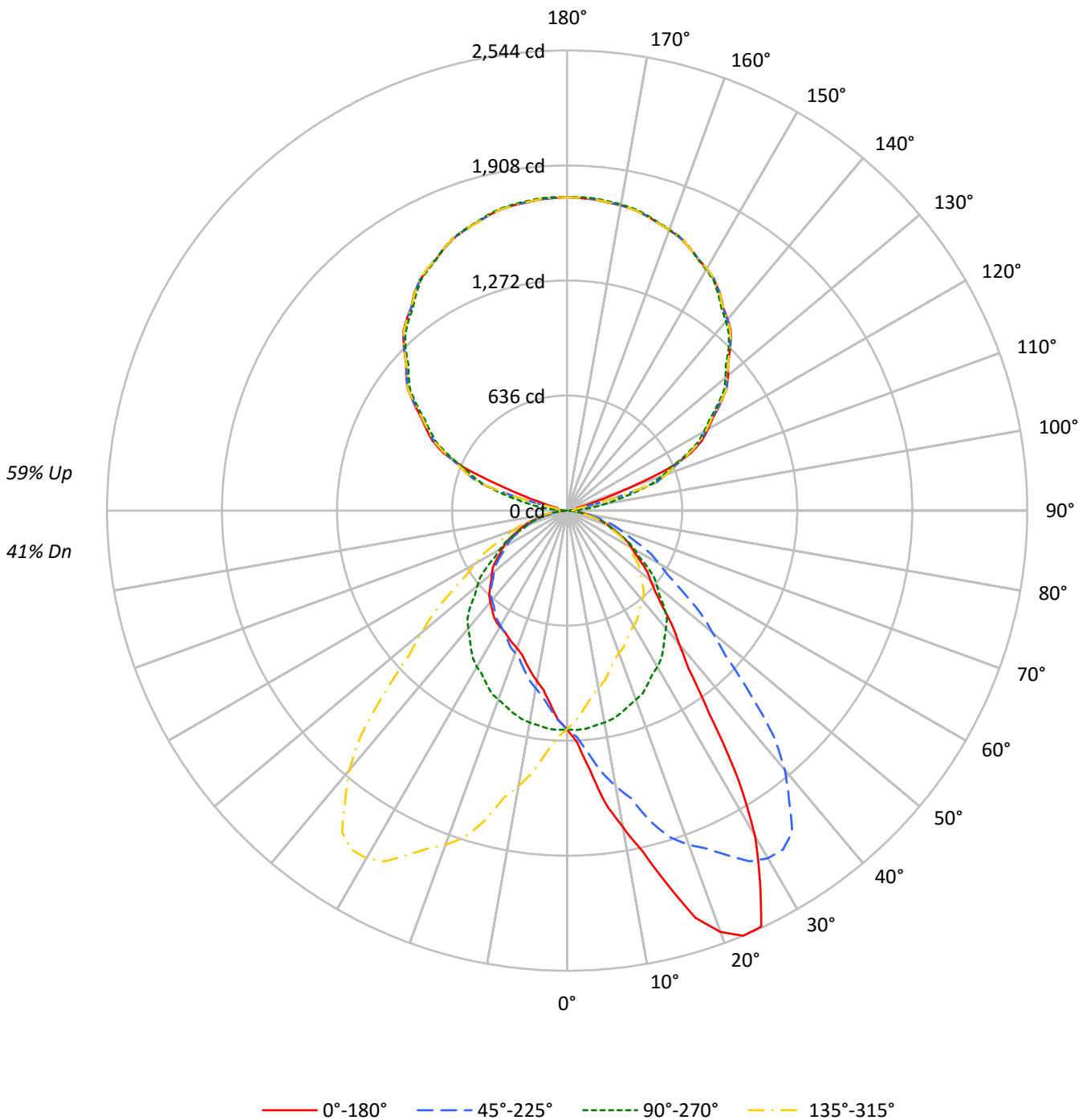
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35				
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	34	31	30	25				
4	73	63	55	49	66	57	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	22	19				
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15				
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13017	13017	13017	13017
5°	15524	13073	11585	13073
10°	19429	13007	10463	13007
15°	23832	12902	9742	12902
20°	28389	12739	9275	12739
25°	30144	12539	9171	12539
30°	25838	12394	9220	12394
35°	17969	12188	9315	12188
40°	13534	11946	9286	11946
45°	11237	11586	9168	11586
50°	10068	10851	9085	10851
55°	9411	10061	8972	10061
60°	8829	9233	8880	9233
65°	8298	8418	8596	8418
70°	7783	7487	8186	7487
75°	6970	6554	7507	6554
80°	6100	5374	6465	5374
85°	4780	3903	4335	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.3
10°-20°	382.0	4.3
20°-30°	641.1	7.2
30°-40°	725.9	8.1
40°-50°	651.0	7.3
50°-60°	525.3	5.9
60°-70°	366.1	4.1
70°-80°	192.4	2.2
80°-90°	51.9	0.6
90°-100°	63.0	0.7
100°-110°	300.2	3.4
110°-120°	721.1	8.1
120°-130°	918.3	10.3
130°-140°	981.1	11.0
140°-150°	917.5	10.3
150°-160°	740.1	8.3
160°-170°	477.6	5.3
170°-180°	164.6	1.8
0°-30°	1142.2	12.8
0°-40°	1868.1	20.9
0°-60°	3044.4	34.1
0°-90°	3654.8	40.9
90°-120°	1084.3	12.1
90°-150°	3901.2	43.6
90°-180°	5283.0	59.1
0°-180°	8938.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1437	1210	1072	1210	1437	149
15°	2139	1158	874	1158	2139	617
25°	2538	1056	772	1056	2538	1113
35°	1368	928	709	928	1368	888
45°	738	761	602	761	738	584
55°	502	536	478	536	502	450
65°	326	330	338	330	326	324
75°	168	158	180	158	168	179
85°	39	32	35	32	39	47
90°	39	1	39	1	39	19
95°	49	78	49	78	49	41
105°	57	384	57	384	57	129
115°	757	720	757	720	757	699
125°	1035	1014	1035	1014	1035	924
135°	1276	1263	1276	1263	1276	984
145°	1471	1457	1471	1457	1471	918
155°	1603	1605	1603	1605	1603	739
165°	1689	1693	1689	1693	1689	477
175°	1726	1732	1726	1732	1726	164
180°	1732	1732	1732	1732	1732	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1283.3	1282.5	1280.0	1281.9	1278.2	1273.1	1272.6	1267.9	1254.3	1253.4	1249.7
5°	1436.7	1431.9	1431.3	1430.8	1422.5	1411.4	1390.3	1388.6	1360.5	1346.4	1329.4
7.5°	1635.1	1637.6	1629.0	1621.5	1596.5	1579.9	1557.3	1528.4	1493.8	1458.8	1435.5
10°	1777.6	1797.0	1773.0	1756.5	1741.3	1712.6	1679.2	1637.6	1596.0	1547.4	1510.5
12.5°	1930.4	1939.9	1935.1	1919.7	1896.0	1852.3	1793.1	1747.3	1709.0	1628.0	1595.3
15°	2138.6	2174.3	2151.5	2098.7	2099.9	2058.3	1980.9	1896.0	1850.9	1779.9	1683.3
17.5°	2360.3	2364.7	2355.0	2311.0	2281.7	2224.6	2153.2	2071.7	1980.4	1894.5	1792.1
20°	2478.4	2474.9	2454.4	2431.5	2381.1	2336.6	2258.7	2167.8	2050.6	1966.3	1854.4
22.5°	2544.0	2538.1	2528.4	2509.3	2467.4	2419.6	2349.6	2250.3	2138.8	2022.6	1893.3
25°	2538.1	2545.7	2546.9	2541.7	2527.0	2498.3	2443.2	2364.1	2252.8	2103.4	1968.7
27.5°	2308.4	2319.3	2350.5	2378.3	2409.3	2441.0	2436.8	2397.5	2315.1	2186.1	2021.4
30°	2078.8	2055.4	2113.3	2186.6	2236.4	2324.3	2373.5	2376.4	2330.1	2219.4	2058.8
32.5°	1760.1	1785.8	1811.5	1901.6	2010.4	2109.1	2207.1	2286.0	2295.0	2221.3	2080.9
35°	1367.5	1399.7	1446.6	1493.5	1610.7	1711.4	1883.7	2033.7	2153.2	2169.0	2082.8
37.5°	1102.0	1117.9	1147.5	1194.6	1271.2	1390.7	1524.0	1713.6	1886.7	2015.5	2021.1
40°	963.2	967.9	1001.3	1037.1	1099.2	1197.6	1317.7	1485.2	1692.6	1872.6	1947.6
42.5°	859.2	869.4	883.6	918.0	967.4	1041.5	1153.1	1291.7	1481.8	1688.8	1835.5
45°	738.2	749.9	758.7	781.6	816.7	866.5	944.5	1071.0	1215.7	1429.6	1627.0
47.5°	658.3	659.3	665.8	683.0	707.0	744.3	799.4	880.7	1013.6	1187.1	1389.7
50°	601.2	610.5	612.9	626.3	645.1	672.6	718.3	787.5	896.5	1048.8	1235.1
52.5°	560.9	563.6	570.2	580.0	596.3	617.8	657.4	711.5	797.0	926.9	1098.2
55°	501.5	501.5	508.0	515.6	525.0	544.3	570.7	610.5	675.5	776.4	918.1
57.5°	446.7	449.6	454.2	456.5	464.5	477.3	499.3	529.5	578.1	655.7	768.4
60°	410.1	415.4	414.8	419.5	426.5	436.5	455.2	479.8	523.2	585.3	680.3
62.5°	378.2	377.9	377.8	383.4	390.5	399.9	412.2	433.4	470.3	525.3	606.1
65°	325.8	324.6	328.7	332.2	334.6	341.6	350.9	369.7	394.3	435.3	498.0
67.5°	279.1	275.7	277.9	279.1	283.1	288.6	297.4	309.0	328.6	361.5	408.7
70°	247.3	244.4	243.7	244.9	248.4	252.5	259.0	270.1	288.3	314.6	349.2
72.5°	214.5	212.4	212.3	214.9	216.5	219.2	223.8	234.0	248.4	268.2	300.5
75°	167.6	167.6	167.6	168.2	169.9	172.3	175.7	181.1	192.2	206.2	227.9
77.5°	125.6	125.5	124.8	124.7	127.3	128.3	129.2	134.1	140.3	149.7	165.6
80°	98.4	95.5	96.7	98.4	99.6	100.2	101.9	103.1	108.4	113.7	124.8
82.5°	73.1	70.7	70.9	73.6	73.8	74.4	76.2	77.8	79.8	84.6	90.6
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.0	41.6	41.6	44.5	48.0
87.5°	21.8	20.8	21.1	21.4	20.8	21.2	21.4	21.6	21.9	22.1	21.9
90°	38.6	38.1	37.5	36.9	36.3	35.5	34.4	33.1	32.0	30.9	27.2
92.5°	42.7	42.4	42.0	41.7	41.3	40.3	38.5	36.6	34.8	33.0	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.8
97.5°	53.0	52.8	52.4	52.2	51.9	50.6	48.3	46.1	43.7	41.4	38.1
100°	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0	44.8	42.4	39.1
102.5°	55.1	54.6	54.1	53.6	53.0	52.3	50.5	48.5	46.5	44.5	42.5
105°	56.7	56.1	55.5	54.9	54.3	53.7	52.0	50.0	48.0	46.0	44.0
107.5°	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4	479.6	516.7	553.8
110°	354.0	394.9	435.8	476.6	517.5	542.8	552.2	561.6	571.1	580.5	577.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	607.3	616.0	624.6	633.2	641.9	646.1	645.9	645.8	645.6	645.4	642.2
115°	756.9	755.7	754.6	753.5	752.3	750.3	747.4	744.6	741.7	738.8	736.2
117.5°	840.8	840.6	840.3	840.1	839.9	838.6	836.3	834.1	831.7	829.5	828.1
120°	898.5	898.5	898.5	898.5	898.5	897.3	895.0	892.8	890.4	888.1	887.3
122.5°	955.1	954.8	954.6	954.4	954.2	953.3	951.7	950.0	948.5	946.8	945.7
125°	1034.9	1034.3	1033.7	1033.2	1032.6	1032.0	1031.5	1030.9	1030.4	1029.8	1028.6
127.5°	1111.6	1112.2	1112.8	1113.4	1113.9	1113.7	1112.8	1111.9	1110.9	1110.1	1108.7
130°	1161.1	1161.6	1162.2	1162.8	1163.3	1163.0	1161.9	1160.7	1159.6	1158.5	1157.4
132.5°	1206.3	1207.1	1208.0	1208.8	1209.5	1209.4	1208.2	1207.1	1205.9	1204.8	1203.9
135°	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0	1278.2	1277.3	1276.4	1275.6	1274.5
137.5°	1340.7	1341.3	1341.9	1342.5	1343.0	1342.6	1341.3	1339.9	1338.5	1337.1	1336.5
140°	1379.8	1380.4	1381.0	1381.6	1382.2	1381.8	1380.7	1379.6	1378.5	1377.3	1376.4
142.5°	1415.9	1416.7	1417.5	1418.3	1419.1	1419.0	1418.2	1417.2	1416.3	1415.4	1414.5
145°	1471.3	1471.3	1471.3	1471.3	1471.3	1470.9	1470.4	1469.8	1469.2	1468.7	1468.1
147.5°	1512.4	1513.7	1515.1	1516.4	1517.7	1518.1	1517.5	1516.9	1516.4	1515.8	1515.2
150°	1543.3	1544.2	1545.1	1545.9	1546.8	1546.9	1546.4	1545.8	1545.2	1544.6	1544.0
152.5°	1568.1	1569.3	1570.6	1572.0	1573.3	1573.5	1572.4	1571.4	1570.4	1569.3	1569.0
155°	1602.6	1604.2	1605.9	1607.7	1609.4	1609.6	1608.1	1606.7	1605.2	1603.8	1603.5
157.5°	1631.6	1633.8	1636.1	1638.3	1640.5	1640.8	1639.1	1637.4	1635.6	1633.9	1634.3
160°	1650.2	1652.2	1654.2	1656.1	1658.2	1658.3	1656.6	1654.9	1653.2	1651.5	1651.7
162.5°	1667.7	1669.5	1671.2	1673.0	1674.7	1674.6	1672.8	1670.8	1668.9	1666.9	1667.2
165°	1688.8	1690.7	1692.8	1694.8	1696.8	1696.7	1694.4	1692.0	1689.8	1687.5	1687.8
167.5°	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1	1710.8	1708.6	1706.2	1704.0	1704.0
170°	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4	1720.1	1717.8	1715.5	1713.2	1713.2
172.5°	1718.4	1720.9	1723.5	1726.0	1728.5	1728.5	1726.3	1724.0	1721.7	1719.4	1719.2
175°	1726.1	1728.4	1730.7	1732.9	1735.3	1735.4	1733.4	1731.4	1729.4	1727.4	1727.1
177.5°	1728.5	1730.7	1733.0	1735.3	1737.6	1737.8	1735.9	1734.1	1732.3	1730.5	1730.3
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1246.8	1243.0	1239.3	1232.8	1227.1	1219.2	1216.8	1214.0	1205.6	1198.1	1192.4
5°	1322.9	1308.9	1288.4	1269.6	1254.4	1233.9	1222.2	1209.9	1192.3	1176.5	1163.6
7.5°	1402.7	1375.0	1343.2	1308.6	1276.6	1245.6	1220.6	1198.4	1173.8	1150.5	1132.3
10°	1465.9	1426.1	1381.6	1333.5	1292.5	1252.7	1219.3	1190.0	1158.3	1130.8	1107.9
12.5°	1538.1	1479.0	1417.6	1359.3	1310.8	1255.5	1215.0	1177.8	1141.9	1108.8	1083.1
15°	1623.5	1548.5	1475.9	1395.6	1321.8	1252.7	1204.6	1157.8	1116.1	1082.2	1049.4
17.5°	1701.3	1616.4	1520.6	1423.1	1333.9	1252.0	1184.7	1131.7	1079.7	1038.1	1005.4
20°	1745.4	1648.7	1540.3	1439.0	1340.6	1249.1	1175.4	1112.1	1055.8	1011.8	974.9
22.5°	1783.4	1670.3	1558.2	1449.8	1340.1	1241.6	1158.0	1092.9	1031.9	988.9	949.6
25°	1822.7	1687.4	1574.9	1447.8	1325.3	1223.4	1129.6	1055.8	994.9	944.5	904.0
27.5°	1856.5	1686.3	1552.7	1416.0	1302.1	1199.9	1099.8	1020.6	956.0	901.2	860.2
30°	1879.0	1688.6	1529.8	1394.5	1279.6	1174.1	1076.9	997.2	929.3	873.6	834.9
32.5°	1893.1	1687.1	1508.7	1364.4	1244.0	1150.7	1052.1	969.6	899.7	845.0	807.7
35°	1901.3	1676.9	1472.4	1302.4	1186.5	1095.6	1013.1	927.5	854.3	803.3	761.1
37.5°	1884.8	1655.2	1430.2	1242.7	1115.7	1026.2	956.7	883.9	813.8	757.7	721.3
40°	1859.1	1641.2	1397.4	1200.5	1067.0	980.8	921.6	850.2	781.0	727.7	693.7
42.5°	1809.8	1612.5	1361.3	1153.7	1016.3	930.1	875.7	816.0	750.5	700.5	666.5
45°	1689.7	1550.3	1307.2	1083.3	941.5	852.5	804.4	761.1	701.9	653.2	624.0
47.5°	1523.1	1456.6	1228.9	1009.2	863.5	777.8	727.9	693.0	649.8	610.5	582.4
50°	1407.3	1379.8	1175.9	958.6	811.5	727.7	679.7	648.0	617.0	577.7	551.9
52.5°	1273.8	1290.7	1114.0	906.0	758.5	676.1	630.9	605.8	577.6	545.4	522.9
55°	1085.7	1147.2	1007.2	817.9	679.7	601.2	558.4	536.1	519.7	495.7	476.3
57.5°	909.6	987.8	891.7	727.1	602.2	534.4	493.4	469.2	458.7	446.1	430.8
60°	805.0	882.4	809.2	666.2	550.2	485.7	449.4	428.9	418.4	409.6	396.7
62.5°	711.8	790.1	728.5	604.3	499.0	439.3	407.7	387.6	379.4	374.9	363.9
65°	583.6	650.9	609.9	508.0	425.9	373.2	344.5	330.5	322.9	321.1	314.0
67.5°	474.9	526.2	496.4	421.4	356.8	311.3	286.9	274.9	269.1	268.5	263.2
70°	403.7	451.8	428.9	360.9	305.2	269.5	248.4	237.9	234.4	233.8	230.8
72.5°	348.4	381.9	363.7	307.0	264.0	231.5	216.1	205.1	201.0	201.9	199.9
75°	257.8	283.0	272.4	233.2	198.6	177.5	164.6	157.6	154.1	155.8	153.5
77.5°	185.5	201.5	191.9	164.8	143.4	128.2	118.7	114.3	111.2	111.1	110.0
80°	140.0	149.4	144.1	127.7	110.1	97.3	89.6	86.7	85.0	84.4	83.8
82.5°	99.7	107.7	101.5	90.2	78.3	70.5	66.2	62.3	61.0	61.4	60.8
85°	50.4	53.3	51.0	43.9	39.3	35.7	33.4	31.6	30.5	31.1	29.9
87.5°	22.0	21.8	19.6	17.0	15.6	13.6	13.0	11.5	11.1	11.7	11.8
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.4	24.5	21.7	20.8	21.5	22.3	23.2	23.9	23.2	22.3	21.5
95°	33.6	30.5	27.3	31.6	43.3	55.1	66.8	78.5	66.8	55.1	43.3
97.5°	82.7	103.2	123.8	136.7	142.0	147.3	152.6	157.8	152.6	147.3	142.0
100°	131.7	176.3	220.9	240.4	234.7	228.9	223.3	217.6	223.3	228.9	234.7
102.5°	182.2	230.9	279.7	302.0	297.8	293.8	289.6	285.5	289.6	293.8	297.8
105°	333.4	359.1	384.9	396.1	393.0	389.9	386.8	383.6	386.8	389.9	393.0
107.5°	508.6	504.5	500.4	497.1	494.6	492.1	489.6	487.1	489.6	492.1	494.6
110°	574.2	571.1	567.9	565.2	562.9	560.6	558.4	556.0	558.4	560.6	562.9



TEST NUMBER: P332204-935

CATALOG NUMBER: S123DIW-S1000D1535U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	639.1	635.9	632.8	630.2	628.2	626.1	624.1	622.0	624.1	626.1	628.2
115°	733.7	731.2	728.6	726.4	724.7	723.0	721.3	719.5	721.3	723.0	724.7
117.5°	826.8	825.5	824.2	822.5	820.4	818.2	816.1	814.0	816.1	818.2	820.4
120°	886.4	885.5	884.8	883.0	880.5	877.9	875.3	872.7	875.3	877.9	880.5
122.5°	944.7	943.6	942.5	940.9	938.7	936.7	934.5	932.5	934.5	936.7	938.7
125°	1027.4	1026.3	1025.2	1023.5	1021.1	1018.9	1016.6	1014.3	1016.6	1018.9	1021.1
127.5°	1107.3	1106.0	1104.6	1102.8	1100.4	1098.2	1095.9	1093.6	1095.9	1098.2	1100.4
130°	1156.2	1155.0	1153.9	1152.2	1149.9	1147.6	1145.3	1143.0	1145.3	1147.6	1149.9
132.5°	1203.0	1202.0	1201.2	1199.5	1197.2	1195.0	1192.7	1190.4	1192.7	1195.0	1197.2
135°	1273.3	1272.1	1271.0	1269.6	1267.9	1266.2	1264.5	1262.7	1264.5	1266.2	1267.9
137.5°	1335.8	1335.2	1334.6	1333.2	1331.0	1328.9	1326.7	1324.5	1326.7	1328.9	1331.0
140°	1375.5	1374.7	1373.8	1372.6	1370.9	1369.2	1367.4	1365.7	1367.4	1369.2	1370.9
142.5°	1413.7	1412.8	1412.0	1410.7	1408.9	1407.2	1405.5	1403.8	1405.5	1407.2	1408.9
145°	1467.5	1467.0	1466.4	1465.1	1463.1	1461.1	1459.1	1457.1	1459.1	1461.1	1463.1
147.5°	1514.7	1514.1	1513.5	1512.5	1511.2	1509.9	1508.6	1507.3	1508.6	1509.9	1511.2
150°	1543.5	1542.9	1542.3	1541.6	1540.8	1539.9	1539.0	1538.2	1539.0	1539.9	1540.8
152.5°	1568.7	1568.3	1568.0	1567.6	1567.2	1566.8	1566.4	1566.0	1566.4	1566.8	1567.2
155°	1603.3	1603.0	1602.7	1602.8	1603.4	1604.0	1604.6	1605.1	1604.6	1604.0	1603.4
157.5°	1634.5	1634.8	1635.1	1635.3	1635.3	1635.4	1635.5	1635.5	1635.5	1635.4	1635.3
160°	1652.0	1652.3	1652.6	1652.9	1653.2	1653.5	1653.7	1654.1	1653.7	1653.5	1653.2
162.5°	1667.5	1667.8	1668.0	1668.5	1669.3	1670.1	1670.8	1671.5	1670.8	1670.1	1669.3
165°	1688.1	1688.3	1688.7	1689.2	1690.1	1690.9	1691.8	1692.6	1691.8	1690.9	1690.1
167.5°	1704.0	1704.0	1704.0	1704.5	1705.7	1706.8	1708.0	1709.1	1708.0	1706.8	1705.7
170°	1713.2	1713.2	1713.2	1713.8	1714.9	1716.1	1717.3	1718.4	1717.3	1716.1	1714.9
172.5°	1719.0	1718.7	1718.5	1719.1	1720.5	1721.8	1723.2	1724.6	1723.2	1721.8	1720.5
175°	1726.8	1726.6	1726.2	1726.8	1728.3	1729.7	1731.1	1732.5	1731.1	1729.7	1728.3
177.5°	1730.0	1729.8	1729.6	1730.0	1731.2	1732.3	1733.5	1734.6	1733.5	1732.3	1731.2
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



TEST NUMBER: P332204-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1189.1	1185.9	1181.2	1174.1	1168.5	1159.6	1159.6	1161.1	1161.1	1160.5	1159.6
5°	1153.1	1144.3	1133.8	1121.5	1108.5	1095.6	1093.3	1088.6	1085.1	1082.7	1079.8
7.5°	1115.0	1099.4	1084.0	1066.8	1051.1	1038.1	1029.1	1021.6	1016.8	1011.6	1007.9
10°	1089.2	1069.9	1051.7	1033.5	1013.6	997.8	987.8	980.8	975.5	970.9	968.5
12.5°	1058.7	1036.6	1016.6	999.3	977.5	961.2	951.7	948.5	942.3	932.4	927.2
15°	1014.2	993.7	969.7	943.3	932.7	912.8	901.7	896.5	892.9	885.3	883.0
17.5°	976.1	949.3	922.3	902.7	883.0	866.9	860.7	854.1	849.5	843.3	841.4
20°	945.6	921.6	897.0	875.9	855.4	837.8	832.6	827.9	823.2	820.3	817.9
22.5°	914.7	890.7	870.3	850.6	828.7	817.2	811.5	806.3	803.1	801.1	798.7
25°	871.2	850.2	827.3	809.7	792.1	784.5	781.0	778.1	775.8	772.8	772.2
27.5°	832.3	809.3	790.8	774.5	761.8	755.4	752.1	750.6	751.1	752.2	752.9
30°	803.3	782.2	767.0	752.9	741.1	735.3	734.7	734.7	737.1	737.6	738.8
32.5°	776.5	759.2	744.0	730.4	721.5	717.5	719.7	719.7	721.6	723.2	725.2
35°	737.6	722.4	710.7	699.0	691.4	693.1	694.3	695.4	698.4	701.9	704.3
37.5°	700.5	687.3	675.1	665.9	662.5	665.6	668.4	670.9	674.2	676.9	679.3
40°	673.8	663.8	652.1	643.9	645.1	646.9	649.2	652.1	655.0	656.8	659.2
42.5°	648.9	638.5	629.6	622.8	624.5	626.7	628.1	629.6	633.0	636.2	637.6
45°	611.1	602.9	594.7	590.6	591.8	593.0	594.1	595.9	598.8	601.2	601.8
47.5°	568.5	562.8	557.3	553.4	555.2	554.7	556.3	560.0	560.9	562.3	565.6
50°	541.4	536.1	529.7	528.5	528.5	528.5	529.1	533.7	533.7	536.1	538.5
52.5°	511.3	508.0	503.9	501.8	500.8	500.8	503.3	505.7	506.6	509.9	512.2
55°	467.0	463.5	459.9	458.1	457.0	458.1	462.9	464.0	467.0	468.7	470.5
57.5°	420.7	418.0	415.2	414.2	414.0	415.5	418.1	421.6	422.3	427.7	430.4
60°	390.2	386.1	383.7	383.7	382.6	387.9	386.7	392.5	393.7	397.3	401.3
62.5°	358.8	353.3	352.3	352.3	354.0	355.5	357.1	359.7	362.8	367.2	370.4
65°	308.2	305.2	309.4	308.8	307.6	311.1	311.1	314.0	317.5	321.7	328.1
67.5°	260.3	258.7	259.1	259.1	260.9	262.9	264.5	267.1	271.3	275.6	279.8
70°	227.9	229.7	226.8	229.1	230.8	231.4	232.6	236.1	240.8	243.7	248.4
72.5°	196.5	196.4	196.7	197.7	199.4	200.5	201.6	205.7	210.8	213.3	217.1
75°	151.2	150.6	152.3	152.3	155.2	156.4	157.6	159.4	164.0	167.6	170.5
77.5°	110.4	111.1	110.7	112.7	111.9	112.1	115.8	117.5	118.0	124.9	126.5
80°	83.2	84.4	85.0	85.6	86.1	85.0	89.0	90.8	90.8	94.9	97.8
82.5°	59.8	60.4	62.0	62.6	62.7	63.9	64.2	65.5	66.9	68.7	72.5
85°	29.9	31.6	32.2	31.6	32.2	31.1	32.8	33.4	34.0	34.0	34.0
87.5°	11.9	13.1	13.3	14.6	14.8	16.0	16.3	15.6	15.8	17.4	15.7
90°	12.7	16.0	19.7	23.4	27.2	30.9	32.0	33.1	34.4	35.5	36.3
92.5°	20.8	21.7	24.5	27.4	30.1	33.0	34.8	36.6	38.5	40.3	41.3
95°	31.6	27.3	30.5	33.6	36.8	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.7	123.8	103.2	82.7	62.1	41.4	43.7	46.1	48.3	50.6	51.9
100°	240.4	220.9	176.3	131.7	87.1	42.4	44.8	47.0	49.3	51.7	53.0
102.5°	302.0	279.7	230.9	182.2	133.5	84.7	77.6	70.5	63.5	56.3	53.0
105°	396.1	384.9	359.1	333.4	307.6	281.9	231.3	180.6	130.0	79.4	54.3
107.5°	497.1	500.4	504.5	508.6	512.6	516.7	479.6	442.4	405.3	368.2	330.5
110°	565.2	567.9	571.1	574.2	577.4	580.5	571.1	561.6	552.2	542.8	517.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	630.2	632.8	635.9	639.1	642.2	645.4	645.6	645.8	645.9	646.1	641.9
115°	726.4	728.6	731.2	733.7	736.2	738.8	741.7	744.6	747.4	750.3	752.3
117.5°	822.5	824.2	825.5	826.8	828.1	829.5	831.7	834.1	836.3	838.6	839.9
120°	883.0	884.8	885.5	886.4	887.3	888.1	890.4	892.8	895.0	897.3	898.5
122.5°	940.9	942.5	943.6	944.7	945.7	946.8	948.5	950.0	951.7	953.3	954.2
125°	1023.5	1025.2	1026.3	1027.4	1028.6	1029.8	1030.4	1030.9	1031.5	1032.0	1032.6
127.5°	1102.8	1104.6	1106.0	1107.3	1108.7	1110.1	1110.9	1111.9	1112.8	1113.7	1113.9
130°	1152.2	1153.9	1155.0	1156.2	1157.4	1158.5	1159.6	1160.7	1161.9	1163.0	1163.3
132.5°	1199.5	1201.2	1202.0	1203.0	1203.9	1204.8	1205.9	1207.1	1208.2	1209.4	1209.5
135°	1269.6	1271.0	1272.1	1273.3	1274.5	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0
137.5°	1333.2	1334.6	1335.2	1335.8	1336.5	1337.1	1338.5	1339.9	1341.3	1342.6	1343.0
140°	1372.6	1373.8	1374.7	1375.5	1376.4	1377.3	1378.5	1379.6	1380.7	1381.8	1382.2
142.5°	1410.7	1412.0	1412.8	1413.7	1414.5	1415.4	1416.3	1417.2	1418.2	1419.0	1419.1
145°	1465.1	1466.4	1467.0	1467.5	1468.1	1468.7	1469.2	1469.8	1470.4	1470.9	1471.3
147.5°	1512.5	1513.5	1514.1	1514.7	1515.2	1515.8	1516.4	1516.9	1517.5	1518.1	1517.7
150°	1541.6	1542.3	1542.9	1543.5	1544.0	1544.6	1545.2	1545.8	1546.4	1546.9	1546.8
152.5°	1567.6	1568.0	1568.3	1568.7	1569.0	1569.3	1570.4	1571.4	1572.4	1573.5	1573.3
155°	1602.8	1602.7	1603.0	1603.3	1603.5	1603.8	1605.2	1606.7	1608.1	1609.6	1609.4
157.5°	1635.3	1635.1	1634.8	1634.5	1634.3	1633.9	1635.6	1637.4	1639.1	1640.8	1640.5
160°	1652.9	1652.6	1652.3	1652.0	1651.7	1651.5	1653.2	1654.9	1656.6	1658.3	1658.2
162.5°	1668.5	1668.0	1667.8	1667.5	1667.2	1666.9	1668.9	1670.8	1672.8	1674.6	1674.7
165°	1689.2	1688.7	1688.3	1688.1	1687.8	1687.5	1689.8	1692.0	1694.4	1696.7	1696.8
167.5°	1704.5	1704.0	1704.0	1704.0	1704.0	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1
170°	1713.8	1713.2	1713.2	1713.2	1713.2	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4
172.5°	1719.1	1718.5	1718.7	1719.0	1719.2	1719.4	1721.7	1724.0	1726.3	1728.5	1728.5
175°	1726.8	1726.2	1726.6	1726.8	1727.1	1727.4	1729.4	1731.4	1733.4	1735.4	1735.3
177.5°	1730.0	1729.6	1729.8	1730.0	1730.3	1730.5	1732.3	1734.1	1735.9	1737.8	1737.6
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1156.3	1155.9	1159.2	1156.8	1159.2	1155.9	1156.3	1159.6	1160.5	1161.1	1161.1
5°	1076.3	1078.1	1072.2	1072.2	1072.2	1078.1	1076.3	1079.8	1082.7	1085.1	1088.6
7.5°	1005.0	1002.5	1002.7	999.5	1002.7	1002.5	1005.0	1007.9	1011.6	1016.8	1021.6
10°	961.5	957.9	956.7	957.3	956.7	957.9	961.5	968.5	970.9	975.5	980.8
12.5°	925.4	924.7	917.0	917.1	917.0	924.7	925.4	927.2	932.4	942.3	948.5
15°	883.0	871.8	870.6	874.2	870.6	871.8	883.0	883.0	885.3	892.9	896.5
17.5°	840.4	834.6	834.9	833.2	834.9	834.6	840.4	841.4	843.3	849.5	854.1
20°	817.9	814.4	813.8	809.7	813.8	814.4	817.9	817.9	820.3	823.2	827.9
22.5°	797.3	796.2	796.5	791.9	796.5	796.2	797.3	798.7	801.1	803.1	806.3
25°	771.6	774.6	772.2	772.2	772.2	774.6	771.6	772.2	772.8	775.8	778.1
27.5°	754.3	754.1	753.0	753.0	753.0	754.1	754.3	752.9	752.2	751.1	750.6
30°	741.1	740.5	741.8	741.8	741.8	740.5	741.1	738.8	737.6	737.1	734.7
32.5°	728.1	728.8	729.1	729.5	729.1	728.8	728.1	725.2	723.2	721.6	719.7
35°	707.7	708.3	710.2	708.9	710.2	708.3	707.7	704.3	701.9	698.4	695.4
37.5°	680.4	683.0	682.4	683.4	682.4	683.0	680.4	679.3	676.9	674.2	670.9
40°	659.7	661.5	660.9	660.9	660.9	661.5	659.7	659.2	656.8	655.0	652.1
42.5°	638.6	639.9	638.4	637.5	638.4	639.9	638.6	637.6	636.2	633.0	629.6
45°	604.1	602.9	604.7	602.3	604.7	602.9	604.1	601.8	601.2	598.8	595.9
47.5°	565.4	566.5	567.1	568.8	567.1	566.5	565.4	565.6	562.3	560.9	560.0
50°	539.6	543.1	543.1	542.5	543.1	543.1	539.6	538.5	536.1	533.7	533.7
52.5°	514.3	515.9	518.3	518.1	518.3	515.9	514.3	512.2	509.9	506.6	505.7
55°	475.2	476.3	477.5	478.1	477.5	476.3	475.2	470.5	468.7	467.0	464.0
57.5°	434.6	434.1	437.0	437.8	437.0	434.1	434.6	430.4	427.7	422.3	421.6
60°	406.0	406.0	410.7	412.5	410.7	406.0	406.0	401.3	397.3	393.7	392.5
62.5°	375.6	377.5	382.1	379.7	382.1	377.5	375.6	370.4	367.2	362.8	359.7
65°	331.1	335.7	335.1	337.5	335.1	335.7	331.1	328.1	321.7	317.5	314.0
67.5°	284.5	287.4	291.6	292.1	291.6	287.4	284.5	279.8	275.6	271.3	267.1
70°	253.1	256.1	258.4	260.1	258.4	256.1	253.1	248.4	243.7	240.8	236.1
72.5°	222.7	224.2	229.8	227.3	229.8	224.2	222.7	217.1	213.3	210.8	205.7
75°	174.6	178.7	182.2	180.5	182.2	178.7	174.6	170.5	167.6	164.0	159.4
77.5°	129.2	133.2	134.8	133.4	134.8	133.2	129.2	126.5	124.9	118.0	117.5
80°	101.9	101.3	104.9	104.3	104.9	101.3	101.9	97.8	94.9	90.8	90.8
82.5°	74.7	74.2	75.9	76.2	75.9	74.2	74.7	72.5	68.7	66.9	65.5
85°	36.3	38.1	35.7	35.1	35.7	38.1	36.3	34.0	34.0	34.0	33.4
87.5°	15.8	15.9	15.6	15.2	15.6	15.9	15.8	15.7	17.4	15.8	15.6
90°	36.9	37.5	38.1	38.6	38.1	37.5	36.9	36.3	35.5	34.4	33.1
92.5°	41.7	42.0	42.4	42.7	42.4	42.0	41.7	41.3	40.3	38.5	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.2	52.4	52.8	53.0	52.8	52.4	52.2	51.9	50.6	48.3	46.1
100°	53.2	53.5	53.8	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0
102.5°	53.6	54.1	54.6	55.1	54.6	54.1	53.6	53.0	56.3	63.5	70.5
105°	54.9	55.5	56.1	56.7	56.1	55.5	54.9	54.3	79.4	130.0	180.6
107.5°	292.4	254.2	216.0	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4
110°	476.6	435.8	394.9	354.0	394.9	435.8	476.6	517.5	542.8	552.2	561.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	633.2	624.6	616.0	607.3	616.0	624.6	633.2	641.9	646.1	645.9	645.8
115°	753.5	754.6	755.7	756.9	755.7	754.6	753.5	752.3	750.3	747.4	744.6
117.5°	840.1	840.3	840.6	840.8	840.6	840.3	840.1	839.9	838.6	836.3	834.1
120°	898.5	898.5	898.5	898.5	898.5	898.5	898.5	898.5	897.3	895.0	892.8
122.5°	954.4	954.6	954.8	955.1	954.8	954.6	954.4	954.2	953.3	951.7	950.0
125°	1033.2	1033.7	1034.3	1034.9	1034.3	1033.7	1033.2	1032.6	1032.0	1031.5	1030.9
127.5°	1113.4	1112.8	1112.2	1111.6	1112.2	1112.8	1113.4	1113.9	1113.7	1112.8	1111.9
130°	1162.8	1162.2	1161.6	1161.1	1161.6	1162.2	1162.8	1163.3	1163.0	1161.9	1160.7
132.5°	1208.8	1208.0	1207.1	1206.3	1207.1	1208.0	1208.8	1209.5	1209.4	1208.2	1207.1
135°	1278.2	1277.3	1276.4	1275.6	1276.4	1277.3	1278.2	1279.0	1279.0	1278.2	1277.3
137.5°	1342.5	1341.9	1341.3	1340.7	1341.3	1341.9	1342.5	1343.0	1342.6	1341.3	1339.9
140°	1381.6	1381.0	1380.4	1379.8	1380.4	1381.0	1381.6	1382.2	1381.8	1380.7	1379.6
142.5°	1418.3	1417.5	1416.7	1415.9	1416.7	1417.5	1418.3	1419.1	1419.0	1418.2	1417.2
145°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1470.9	1470.4	1469.8
147.5°	1516.4	1515.1	1513.7	1512.4	1513.7	1515.1	1516.4	1517.7	1518.1	1517.5	1516.9
150°	1545.9	1545.1	1544.2	1543.3	1544.2	1545.1	1545.9	1546.8	1546.9	1546.4	1545.8
152.5°	1572.0	1570.6	1569.3	1568.1	1569.3	1570.6	1572.0	1573.3	1573.5	1572.4	1571.4
155°	1607.7	1605.9	1604.2	1602.6	1604.2	1605.9	1607.7	1609.4	1609.6	1608.1	1606.7
157.5°	1638.3	1636.1	1633.8	1631.6	1633.8	1636.1	1638.3	1640.5	1640.8	1639.1	1637.4
160°	1656.1	1654.2	1652.2	1650.2	1652.2	1654.2	1656.1	1658.2	1658.3	1656.6	1654.9
162.5°	1673.0	1671.2	1669.5	1667.7	1669.5	1671.2	1673.0	1674.7	1674.6	1672.8	1670.8
165°	1694.8	1692.8	1690.7	1688.8	1690.7	1692.8	1694.8	1696.8	1696.7	1694.4	1692.0
167.5°	1710.8	1708.6	1706.2	1704.0	1706.2	1708.6	1710.8	1713.1	1713.1	1710.8	1708.6
170°	1720.1	1717.8	1715.5	1713.2	1715.5	1717.8	1720.1	1722.4	1722.4	1720.1	1717.8
172.5°	1726.0	1723.5	1720.9	1718.4	1720.9	1723.5	1726.0	1728.5	1728.5	1726.3	1724.0
175°	1732.9	1730.7	1728.4	1726.1	1728.4	1730.7	1732.9	1735.3	1735.4	1733.4	1731.4
177.5°	1735.3	1733.0	1730.7	1728.5	1730.7	1733.0	1735.3	1737.6	1737.8	1735.9	1734.1
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1159.6	1159.6	1168.5	1174.1	1181.2	1185.9	1189.1	1192.4	1198.1	1205.6	1214.0
5°	1093.3	1095.6	1108.5	1121.5	1133.8	1144.3	1153.1	1163.6	1176.5	1192.3	1209.9
7.5°	1029.1	1038.1	1051.1	1066.8	1084.0	1099.4	1115.0	1132.3	1150.5	1173.8	1198.4
10°	987.8	997.8	1013.6	1033.5	1051.7	1069.9	1089.2	1107.9	1130.8	1158.3	1190.0
12.5°	951.7	961.2	977.5	999.3	1016.6	1036.6	1058.7	1083.1	1108.8	1141.9	1177.8
15°	901.7	912.8	932.7	943.3	969.7	993.7	1014.2	1049.4	1082.2	1116.1	1157.8
17.5°	860.7	866.9	883.0	902.7	922.3	949.3	976.1	1005.4	1038.1	1079.7	1131.7
20°	832.6	837.8	855.4	875.9	897.0	921.6	945.6	974.9	1011.8	1055.8	1112.1
22.5°	811.5	817.2	828.7	850.6	870.3	890.7	914.7	949.6	988.9	1031.9	1092.9
25°	781.0	784.5	792.1	809.7	827.3	850.2	871.2	904.0	944.5	994.9	1055.8
27.5°	752.1	755.4	761.8	774.5	790.8	809.3	832.3	860.2	901.2	956.0	1020.6
30°	734.7	735.3	741.1	752.9	767.0	782.2	803.3	834.9	873.6	929.3	997.2
32.5°	719.7	717.5	721.5	730.4	744.0	759.2	776.5	807.7	845.0	899.7	969.6
35°	694.3	693.1	691.4	699.0	710.7	722.4	737.6	761.1	803.3	854.3	927.5
37.5°	668.4	665.6	662.5	665.9	675.1	687.3	700.5	721.3	757.7	813.8	883.9
40°	649.2	646.9	645.1	643.9	652.1	663.8	673.8	693.7	727.7	781.0	850.2
42.5°	628.1	626.7	624.5	622.8	629.6	638.5	648.9	666.5	700.5	750.5	816.0
45°	594.1	593.0	591.8	590.6	594.7	602.9	611.1	624.0	653.2	701.9	761.1
47.5°	556.3	554.7	555.2	553.4	557.3	562.8	568.5	582.4	610.5	649.8	693.0
50°	529.1	528.5	528.5	528.5	529.7	536.1	541.4	551.9	577.7	617.0	648.0
52.5°	503.3	500.8	500.8	501.8	503.9	508.0	511.3	522.9	545.4	577.6	605.8
55°	462.9	458.1	457.0	458.1	459.9	463.5	467.0	476.3	495.7	519.7	536.1
57.5°	418.1	415.5	414.0	414.2	415.2	418.0	420.7	430.8	446.1	458.7	469.2
60°	386.7	387.9	382.6	383.7	383.7	386.1	390.2	396.7	409.6	418.4	428.9
62.5°	357.1	355.5	354.0	352.3	352.3	353.3	358.8	363.9	374.9	379.4	387.6
65°	311.1	311.1	307.6	308.8	309.4	305.2	308.2	314.0	321.1	322.9	330.5
67.5°	264.5	262.9	260.9	259.1	259.1	258.7	260.3	263.2	268.5	269.1	274.9
70°	232.6	231.4	230.8	229.1	226.8	229.7	227.9	230.8	233.8	234.4	237.9
72.5°	201.6	200.5	199.4	197.7	196.7	196.4	196.5	199.9	201.9	201.0	205.1
75°	157.6	156.4	155.2	152.3	152.3	150.6	151.2	153.5	155.8	154.1	157.6
77.5°	115.8	112.1	111.9	112.7	110.7	111.1	110.4	110.0	111.1	111.2	114.3
80°	89.0	85.0	86.1	85.6	85.0	84.4	83.2	83.8	84.4	85.0	86.7
82.5°	64.2	63.9	62.7	62.6	62.0	60.4	59.8	60.8	61.4	61.0	62.3
85°	32.8	31.1	32.2	31.6	32.2	31.6	29.9	29.9	31.1	30.5	31.6
87.5°	16.3	16.0	14.8	14.6	13.3	13.1	11.9	11.8	11.7	11.1	11.5
90°	32.0	30.9	27.2	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.8	33.0	30.1	27.4	24.5	21.7	20.8	21.5	22.3	23.2	23.9
95°	41.9	39.9	36.8	33.6	30.5	27.3	31.6	43.3	55.1	66.8	78.5
97.5°	43.7	41.4	62.1	82.7	103.2	123.8	136.7	142.0	147.3	152.6	157.8
100°	44.8	42.4	87.1	131.7	176.3	220.9	240.4	234.7	228.9	223.3	217.6
102.5°	77.6	84.7	133.5	182.2	230.9	279.7	302.0	297.8	293.8	289.6	285.5
105°	231.3	281.9	307.6	333.4	359.1	384.9	396.1	393.0	389.9	386.8	383.6
107.5°	479.6	516.7	512.6	508.6	504.5	500.4	497.1	494.6	492.1	489.6	487.1
110°	571.1	580.5	577.4	574.2	571.1	567.9	565.2	562.9	560.6	558.4	556.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	645.6	645.4	642.2	639.1	635.9	632.8	630.2	628.2	626.1	624.1	622.0
115°	741.7	738.8	736.2	733.7	731.2	728.6	726.4	724.7	723.0	721.3	719.5
117.5°	831.7	829.5	828.1	826.8	825.5	824.2	822.5	820.4	818.2	816.1	814.0
120°	890.4	888.1	887.3	886.4	885.5	884.8	883.0	880.5	877.9	875.3	872.7
122.5°	948.5	946.8	945.7	944.7	943.6	942.5	940.9	938.7	936.7	934.5	932.5
125°	1030.4	1029.8	1028.6	1027.4	1026.3	1025.2	1023.5	1021.1	1018.9	1016.6	1014.3
127.5°	1110.9	1110.1	1108.7	1107.3	1106.0	1104.6	1102.8	1100.4	1098.2	1095.9	1093.6
130°	1159.6	1158.5	1157.4	1156.2	1155.0	1153.9	1152.2	1149.9	1147.6	1145.3	1143.0
132.5°	1205.9	1204.8	1203.9	1203.0	1202.0	1201.2	1199.5	1197.2	1195.0	1192.7	1190.4
135°	1276.4	1275.6	1274.5	1273.3	1272.1	1271.0	1269.6	1267.9	1266.2	1264.5	1262.7
137.5°	1338.5	1337.1	1336.5	1335.8	1335.2	1334.6	1333.2	1331.0	1328.9	1326.7	1324.5
140°	1378.5	1377.3	1376.4	1375.5	1374.7	1373.8	1372.6	1370.9	1369.2	1367.4	1365.7
142.5°	1416.3	1415.4	1414.5	1413.7	1412.8	1412.0	1410.7	1408.9	1407.2	1405.5	1403.8
145°	1469.2	1468.7	1468.1	1467.5	1467.0	1466.4	1465.1	1463.1	1461.1	1459.1	1457.1
147.5°	1516.4	1515.8	1515.2	1514.7	1514.1	1513.5	1512.5	1511.2	1509.9	1508.6	1507.3
150°	1545.2	1544.6	1544.0	1543.5	1542.9	1542.3	1541.6	1540.8	1539.9	1539.0	1538.2
152.5°	1570.4	1569.3	1569.0	1568.7	1568.3	1568.0	1567.6	1567.2	1566.8	1566.4	1566.0
155°	1605.2	1603.8	1603.5	1603.3	1603.0	1602.7	1602.8	1603.4	1604.0	1604.6	1605.1
157.5°	1635.6	1633.9	1634.3	1634.5	1634.8	1635.1	1635.3	1635.3	1635.4	1635.5	1635.5
160°	1653.2	1651.5	1651.7	1652.0	1652.3	1652.6	1652.9	1653.2	1653.5	1653.7	1654.1
162.5°	1668.9	1666.9	1667.2	1667.5	1667.8	1668.0	1668.5	1669.3	1670.1	1670.8	1671.5
165°	1689.8	1687.5	1687.8	1688.1	1688.3	1688.7	1689.2	1690.1	1690.9	1691.8	1692.6
167.5°	1706.2	1704.0	1704.0	1704.0	1704.0	1704.0	1704.5	1705.7	1706.8	1708.0	1709.1
170°	1715.5	1713.2	1713.2	1713.2	1713.2	1713.2	1713.8	1714.9	1716.1	1717.3	1718.4
172.5°	1721.7	1719.4	1719.2	1719.0	1718.7	1718.5	1719.1	1720.5	1721.8	1723.2	1724.6
175°	1729.4	1727.4	1727.1	1726.8	1726.6	1726.2	1726.8	1728.3	1729.7	1731.1	1732.5
177.5°	1732.3	1730.5	1730.3	1730.0	1729.8	1729.6	1730.0	1731.2	1732.3	1733.5	1734.6
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1216.8	1219.2	1227.1	1232.8	1239.3	1243.0	1246.8	1249.7	1253.4	1254.3	1267.9
5°	1222.2	1233.9	1254.4	1269.6	1288.4	1308.9	1322.9	1329.4	1346.4	1360.5	1388.6
7.5°	1220.6	1245.6	1276.6	1308.6	1343.2	1375.0	1402.7	1435.5	1458.8	1493.8	1528.4
10°	1219.3	1252.7	1292.5	1333.5	1381.6	1426.1	1465.9	1510.5	1547.4	1596.0	1637.6
12.5°	1215.0	1255.5	1310.8	1359.3	1417.6	1479.0	1538.1	1595.3	1628.0	1709.0	1747.3
15°	1204.6	1252.7	1321.8	1395.6	1475.9	1548.5	1623.5	1683.3	1779.9	1850.9	1896.0
17.5°	1184.7	1252.0	1333.9	1423.1	1520.6	1616.4	1701.3	1792.1	1894.5	1980.4	2071.7
20°	1175.4	1249.1	1340.6	1439.0	1540.3	1648.7	1745.4	1854.4	1966.3	2050.6	2167.8
22.5°	1158.0	1241.6	1340.1	1449.8	1558.2	1670.3	1783.4	1893.3	2022.6	2138.8	2250.3
25°	1129.6	1223.4	1325.3	1447.8	1574.9	1687.4	1822.7	1968.7	2103.4	2252.8	2364.1
27.5°	1099.8	1199.9	1302.1	1416.0	1552.7	1686.3	1856.5	2021.4	2186.1	2315.1	2397.5
30°	1076.9	1174.1	1279.6	1394.5	1529.8	1688.6	1879.0	2058.8	2219.4	2330.1	2376.4
32.5°	1052.1	1150.7	1244.0	1364.4	1508.7	1687.1	1893.1	2080.9	2221.3	2295.0	2286.0
35°	1013.1	1095.6	1186.5	1302.4	1472.4	1676.9	1901.3	2082.8	2169.0	2153.2	2033.7
37.5°	956.7	1026.2	1115.7	1242.7	1430.2	1655.2	1884.8	2021.1	2015.5	1886.7	1713.6
40°	921.6	980.8	1067.0	1200.5	1397.4	1641.2	1859.1	1947.6	1872.6	1692.6	1485.2
42.5°	875.7	930.1	1016.3	1153.7	1361.3	1612.5	1809.8	1835.5	1688.8	1481.8	1291.7
45°	804.4	852.5	941.5	1083.3	1307.2	1550.3	1689.7	1627.0	1429.6	1215.7	1071.0
47.5°	727.9	777.8	863.5	1009.2	1228.9	1456.6	1523.1	1389.7	1187.1	1013.6	880.7
50°	679.7	727.7	811.5	958.6	1175.9	1379.8	1407.3	1235.1	1048.8	896.5	787.5
52.5°	630.9	676.1	758.5	906.0	1114.0	1290.7	1273.8	1098.2	926.9	797.0	711.5
55°	558.4	601.2	679.7	817.9	1007.2	1147.2	1085.7	918.1	776.4	675.5	610.5
57.5°	493.4	534.4	602.2	727.1	891.7	987.8	909.6	768.4	655.7	578.1	529.5
60°	449.4	485.7	550.2	666.2	809.2	882.4	805.0	680.3	585.3	523.2	479.8
62.5°	407.7	439.3	499.0	604.3	728.5	790.1	711.8	606.1	525.3	470.3	433.4
65°	344.5	373.2	425.9	508.0	609.9	650.9	583.6	498.0	435.3	394.3	369.7
67.5°	286.9	311.3	356.8	421.4	496.4	526.2	474.9	408.7	361.5	328.6	309.0
70°	248.4	269.5	305.2	360.9	428.9	451.8	403.7	349.2	314.6	288.3	270.1
72.5°	216.1	231.5	264.0	307.0	363.7	381.9	348.4	300.5	268.2	248.4	234.0
75°	164.6	177.5	198.6	233.2	272.4	283.0	257.8	227.9	206.2	192.2	181.1
77.5°	118.7	128.2	143.4	164.8	191.9	201.5	185.5	165.6	149.7	140.3	134.1
80°	89.6	97.3	110.1	127.7	144.1	149.4	140.0	124.8	113.7	108.4	103.1
82.5°	66.2	70.5	78.3	90.2	101.5	107.7	99.7	90.6	84.6	79.8	77.8
85°	33.4	35.7	39.3	43.9	51.0	53.3	50.4	48.0	44.5	41.6	41.6
87.5°	13.0	13.6	15.6	17.0	19.6	21.8	22.0	21.9	22.1	21.9	21.6
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.2	30.9	32.0	33.1
92.5°	23.2	22.3	21.5	20.8	21.7	24.5	27.4	30.1	33.0	34.8	36.6
95°	66.8	55.1	43.3	31.6	27.3	30.5	33.6	36.8	39.9	41.9	43.9
97.5°	152.6	147.3	142.0	136.7	123.8	103.2	82.7	62.1	41.4	43.7	46.1
100°	223.3	228.9	234.7	240.4	220.9	176.3	131.7	87.1	42.4	44.8	47.0
102.5°	289.6	293.8	297.8	302.0	279.7	230.9	182.2	133.5	84.7	77.6	70.5
105°	386.8	389.9	393.0	396.1	384.9	359.1	333.4	307.6	281.9	231.3	180.6
107.5°	489.6	492.1	494.6	497.1	500.4	504.5	508.6	512.6	516.7	479.6	442.4
110°	558.4	560.6	562.9	565.2	567.9	571.1	574.2	577.4	580.5	571.1	561.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	624.1	626.1	628.2	630.2	632.8	635.9	639.1	642.2	645.4	645.6	645.8
115°	721.3	723.0	724.7	726.4	728.6	731.2	733.7	736.2	738.8	741.7	744.6
117.5°	816.1	818.2	820.4	822.5	824.2	825.5	826.8	828.1	829.5	831.7	834.1
120°	875.3	877.9	880.5	883.0	884.8	885.5	886.4	887.3	888.1	890.4	892.8
122.5°	934.5	936.7	938.7	940.9	942.5	943.6	944.7	945.7	946.8	948.5	950.0
125°	1016.6	1018.9	1021.1	1023.5	1025.2	1026.3	1027.4	1028.6	1029.8	1030.4	1030.9
127.5°	1095.9	1098.2	1100.4	1102.8	1104.6	1106.0	1107.3	1108.7	1110.1	1110.9	1111.9
130°	1145.3	1147.6	1149.9	1152.2	1153.9	1155.0	1156.2	1157.4	1158.5	1159.6	1160.7
132.5°	1192.7	1195.0	1197.2	1199.5	1201.2	1202.0	1203.0	1203.9	1204.8	1205.9	1207.1
135°	1264.5	1266.2	1267.9	1269.6	1271.0	1272.1	1273.3	1274.5	1275.6	1276.4	1277.3
137.5°	1326.7	1328.9	1331.0	1333.2	1334.6	1335.2	1335.8	1336.5	1337.1	1338.5	1339.9
140°	1367.4	1369.2	1370.9	1372.6	1373.8	1374.7	1375.5	1376.4	1377.3	1378.5	1379.6
142.5°	1405.5	1407.2	1408.9	1410.7	1412.0	1412.8	1413.7	1414.5	1415.4	1416.3	1417.2
145°	1459.1	1461.1	1463.1	1465.1	1466.4	1467.0	1467.5	1468.1	1468.7	1469.2	1469.8
147.5°	1508.6	1509.9	1511.2	1512.5	1513.5	1514.1	1514.7	1515.2	1515.8	1516.4	1516.9
150°	1539.0	1539.9	1540.8	1541.6	1542.3	1542.9	1543.5	1544.0	1544.6	1545.2	1545.8
152.5°	1566.4	1566.8	1567.2	1567.6	1568.0	1568.3	1568.7	1569.0	1569.3	1570.4	1571.4
155°	1604.6	1604.0	1603.4	1602.8	1602.7	1603.0	1603.3	1603.5	1603.8	1605.2	1606.7
157.5°	1635.5	1635.4	1635.3	1635.3	1635.1	1634.8	1634.5	1634.3	1633.9	1635.6	1637.4
160°	1653.7	1653.5	1653.2	1652.9	1652.6	1652.3	1652.0	1651.7	1651.5	1653.2	1654.9
162.5°	1670.8	1670.1	1669.3	1668.5	1668.0	1667.8	1667.5	1667.2	1666.9	1668.9	1670.8
165°	1691.8	1690.9	1690.1	1689.2	1688.7	1688.3	1688.1	1687.8	1687.5	1689.8	1692.0
167.5°	1708.0	1706.8	1705.7	1704.5	1704.0	1704.0	1704.0	1704.0	1704.0	1706.2	1708.6
170°	1717.3	1716.1	1714.9	1713.8	1713.2	1713.2	1713.2	1713.2	1713.2	1715.5	1717.8
172.5°	1723.2	1721.8	1720.5	1719.1	1718.5	1718.7	1719.0	1719.2	1719.4	1721.7	1724.0
175°	1731.1	1729.7	1728.3	1726.8	1726.2	1726.6	1726.8	1727.1	1727.4	1729.4	1731.4
177.5°	1733.5	1732.3	1731.2	1730.0	1729.6	1729.8	1730.0	1730.3	1730.5	1732.3	1734.1
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1272.6	1273.1	1278.2	1281.9	1280.0	1282.5	1283.3
5°	1390.3	1411.4	1422.5	1430.8	1431.3	1431.9	1436.7
7.5°	1557.3	1579.9	1596.5	1621.5	1629.0	1637.6	1635.1
10°	1679.2	1712.6	1741.3	1756.5	1773.0	1797.0	1777.6
12.5°	1793.1	1852.3	1896.0	1919.7	1935.1	1939.9	1930.4
15°	1980.9	2058.3	2099.9	2098.7	2151.5	2174.3	2138.6
17.5°	2153.2	2224.6	2281.7	2311.0	2355.0	2364.7	2360.3
20°	2258.7	2336.6	2381.1	2431.5	2454.4	2474.9	2478.4
22.5°	2349.6	2419.6	2467.4	2509.3	2528.4	2538.1	2544.0
25°	2443.2	2498.3	2527.0	2541.7	2546.9	2545.7	2538.1
27.5°	2436.8	2441.0	2409.3	2378.3	2350.5	2319.3	2308.4
30°	2373.5	2324.3	2236.4	2186.6	2113.3	2055.4	2078.8
32.5°	2207.1	2109.1	2010.4	1901.6	1811.5	1785.8	1760.1
35°	1883.7	1711.4	1610.7	1493.5	1446.6	1399.7	1367.5
37.5°	1524.0	1390.7	1271.2	1194.6	1147.5	1117.9	1102.0
40°	1317.7	1197.6	1099.2	1037.1	1001.3	967.9	963.2
42.5°	1153.1	1041.5	967.4	918.0	883.6	869.4	859.2
45°	944.5	866.5	816.7	781.6	758.7	749.9	738.2
47.5°	799.4	744.3	707.0	683.0	665.8	659.3	658.3
50°	718.3	672.6	645.1	626.3	612.9	610.5	601.2
52.5°	657.4	617.8	596.3	580.0	570.2	563.6	560.9
55°	570.7	544.3	525.0	515.6	508.0	501.5	501.5
57.5°	499.3	477.3	464.5	456.5	454.2	449.6	446.7
60°	455.2	436.5	426.5	419.5	414.8	415.4	410.1
62.5°	412.2	399.9	390.5	383.4	377.8	377.9	378.2
65°	350.9	341.6	334.6	332.2	328.7	324.6	325.8
67.5°	297.4	288.6	283.1	279.1	277.9	275.7	279.1
70°	259.0	252.5	248.4	244.9	243.7	244.4	247.3
72.5°	223.8	219.2	216.5	214.9	212.3	212.4	214.5
75°	175.7	172.3	169.9	168.2	167.6	167.6	167.6
77.5°	129.2	128.3	127.3	124.7	124.8	125.5	125.6
80°	101.9	100.2	99.6	98.4	96.7	95.5	98.4
82.5°	76.2	74.4	73.8	73.6	70.9	70.7	73.1
85°	41.0	39.3	39.9	39.3	39.3	38.7	38.7
87.5°	21.4	21.2	20.8	21.4	21.1	20.8	21.8
90°	34.4	35.5	36.3	36.9	37.5	38.1	38.6
92.5°	38.5	40.3	41.3	41.7	42.0	42.4	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.6	51.9	52.2	52.4	52.8	53.0
100°	49.3	51.7	53.0	53.2	53.5	53.8	54.1
102.5°	63.5	56.3	53.0	53.6	54.1	54.6	55.1
105°	130.0	79.4	54.3	54.9	55.5	56.1	56.7
107.5°	405.3	368.2	330.5	292.4	254.2	216.0	177.9
110°	552.2	542.8	517.5	476.6	435.8	394.9	354.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.9	646.1	641.9	633.2	624.6	616.0	607.3
115°	747.4	750.3	752.3	753.5	754.6	755.7	756.9
117.5°	836.3	838.6	839.9	840.1	840.3	840.6	840.8
120°	895.0	897.3	898.5	898.5	898.5	898.5	898.5
122.5°	951.7	953.3	954.2	954.4	954.6	954.8	955.1
125°	1031.5	1032.0	1032.6	1033.2	1033.7	1034.3	1034.9
127.5°	1112.8	1113.7	1113.9	1113.4	1112.8	1112.2	1111.6
130°	1161.9	1163.0	1163.3	1162.8	1162.2	1161.6	1161.1
132.5°	1208.2	1209.4	1209.5	1208.8	1208.0	1207.1	1206.3
135°	1278.2	1279.0	1279.0	1278.2	1277.3	1276.4	1275.6
137.5°	1341.3	1342.6	1343.0	1342.5	1341.9	1341.3	1340.7
140°	1380.7	1381.8	1382.2	1381.6	1381.0	1380.4	1379.8
142.5°	1418.2	1419.0	1419.1	1418.3	1417.5	1416.7	1415.9
145°	1470.4	1470.9	1471.3	1471.3	1471.3	1471.3	1471.3
147.5°	1517.5	1518.1	1517.7	1516.4	1515.1	1513.7	1512.4
150°	1546.4	1546.9	1546.8	1545.9	1545.1	1544.2	1543.3
152.5°	1572.4	1573.5	1573.3	1572.0	1570.6	1569.3	1568.1
155°	1608.1	1609.6	1609.4	1607.7	1605.9	1604.2	1602.6
157.5°	1639.1	1640.8	1640.5	1638.3	1636.1	1633.8	1631.6
160°	1656.6	1658.3	1658.2	1656.1	1654.2	1652.2	1650.2
162.5°	1672.8	1674.6	1674.7	1673.0	1671.2	1669.5	1667.7
165°	1694.4	1696.7	1696.8	1694.8	1692.8	1690.7	1688.8
167.5°	1710.8	1713.1	1713.1	1710.8	1708.6	1706.2	1704.0
170°	1720.1	1722.4	1722.4	1720.1	1717.8	1715.5	1713.2
172.5°	1726.3	1728.5	1728.5	1726.0	1723.5	1720.9	1718.4
175°	1733.4	1735.4	1735.3	1732.9	1730.7	1728.4	1726.1
177.5°	1735.9	1737.8	1737.6	1735.3	1733.0	1730.7	1728.5
180°	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5

(END OF REPORT)