

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: P332228-935

Luminaire Tested: **S123DIW-S1165D1320U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332228-935
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-S1165D1320U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8763.9 lumens
Efficiency: N/A
Efficacy: 115.0 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

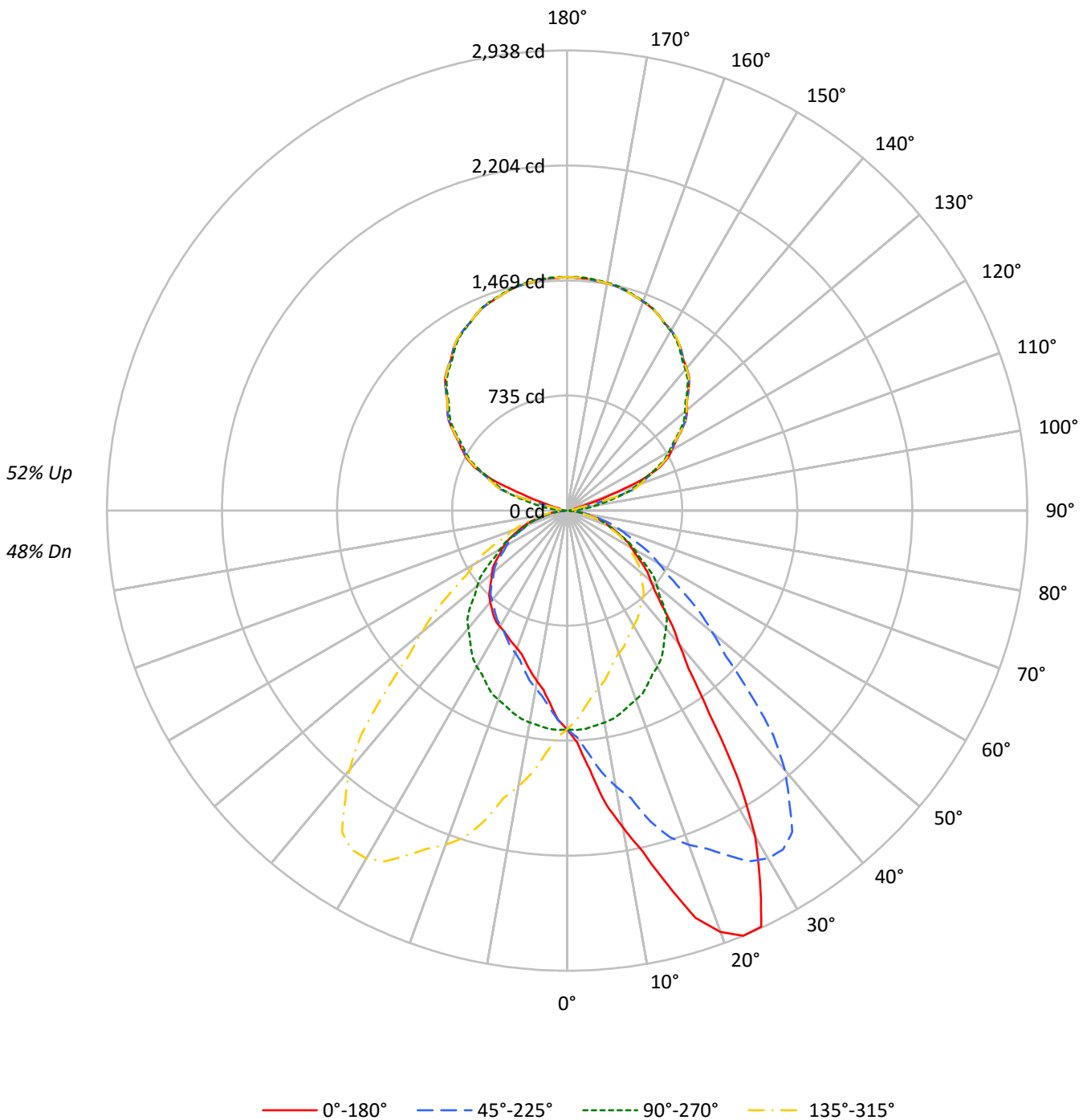
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	93	90	86	90	86	83	80	73	70	68	60	58	57	49	47	46				41	
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40				35	
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34				30	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29				26	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	31	31	28	26				22	
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20				18	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18				16	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15033	15033	15033	15033
5°	17928	15098	13380	15098
10°	22440	15021	12085	15021
15°	27524	14900	11251	14900
20°	32787	14712	10711	14712
25°	34815	14481	10592	14481
30°	29840	14315	10648	14315
35°	20752	14076	10759	14076
40°	15632	13797	10725	13797
45°	12979	13381	10589	13381
50°	11627	12532	10493	12532
55°	10869	11618	10363	11618
60°	10196	10663	10256	10663
65°	9584	9722	9928	9722
70°	8988	8645	9454	8645
75°	8052	7569	8667	7569
80°	7048	6205	7469	6205
85°	5521	4508	5014	4508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.6
10°-20°	441.2	5.0
20°-30°	740.4	8.4
30°-40°	838.4	9.6
40°-50°	751.8	8.6
50°-60°	606.7	6.9
60°-70°	422.8	4.8
70°-80°	222.2	2.5
80°-90°	58.5	0.7
90°-100°	54.2	0.6
100°-110°	258.2	2.9
110°-120°	620.2	7.1
120°-130°	789.8	9.0
130°-140°	843.9	9.6
140°-150°	789.1	9.0
150°-160°	636.5	7.3
160°-170°	410.8	4.7
170°-180°	141.6	1.6
0°-30°	1319.2	15.1
0°-40°	2157.5	24.6
0°-60°	3516.1	40.1
0°-90°	4219.6	48.1
90°-120°	932.6	10.6
90°-150°	3355.4	38.3
90°-180°	4544.0	51.8
0°-180°	8763.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1659	1397	1238	1397	1659	172
15°	2470	1337	1010	1337	2470	713
25°	2931	1219	892	1219	2931	1286
35°	1579	1071	819	1071	1579	1026
45°	853	879	696	879	853	675
55°	579	619	552	619	579	520
65°	376	382	390	382	376	375
75°	194	182	208	182	194	207
85°	45	36	41	36	45	54
90°	33	1	33	1	33	17
95°	42	68	42	68	42	35
105°	49	330	49	330	49	111
115°	651	619	651	619	651	602
125°	890	872	890	872	890	795
135°	1097	1086	1097	1086	1097	846
145°	1265	1253	1265	1253	1265	790
155°	1378	1380	1378	1380	1378	636
165°	1452	1456	1452	1456	1452	410
175°	1485	1490	1485	1490	1485	141
180°	1490	1490	1490	1490	1490	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1482.2	1481.1	1478.4	1480.6	1476.3	1470.2	1469.7	1464.3	1448.6	1447.5	1443.2
5°	1659.2	1653.8	1653.1	1652.4	1643.0	1630.1	1605.8	1603.7	1571.2	1555.0	1535.4
7.5°	1888.4	1891.3	1881.5	1872.8	1843.8	1824.7	1798.6	1765.2	1725.3	1684.8	1657.9
10°	2053.1	2075.4	2047.6	2028.7	2011.1	1977.9	1939.4	1891.3	1843.2	1787.1	1744.5
12.5°	2229.6	2240.5	2234.9	2217.1	2189.7	2139.2	2070.9	2018.0	1973.8	1880.3	1842.5
15°	2469.9	2511.2	2484.8	2423.9	2425.2	2377.1	2287.8	2189.7	2137.6	2055.7	1944.1
17.5°	2725.9	2731.1	2719.8	2669.1	2635.3	2569.2	2486.8	2392.7	2287.2	2188.1	2069.7
20°	2862.3	2858.3	2834.6	2808.2	2750.0	2698.6	2608.6	2503.7	2368.4	2271.0	2141.7
22.5°	2938.2	2931.4	2920.2	2898.0	2849.7	2794.4	2713.6	2599.0	2470.1	2335.9	2186.6
25°	2931.4	2940.1	2941.5	2935.4	2918.5	2885.4	2821.8	2730.4	2601.9	2429.3	2273.6
27.5°	2666.1	2678.6	2714.7	2746.8	2782.7	2819.2	2814.3	2769.0	2673.8	2524.8	2334.5
30°	2400.8	2373.8	2440.8	2525.4	2582.9	2684.3	2741.3	2744.6	2691.1	2563.3	2377.8
32.5°	2032.7	2062.5	2092.1	2196.2	2321.9	2435.9	2549.1	2640.2	2650.6	2565.4	2403.3
35°	1579.3	1616.6	1670.7	1724.8	1860.2	1976.6	2175.5	2348.7	2486.8	2505.1	2405.5
37.5°	1272.7	1291.1	1325.3	1379.6	1468.1	1606.2	1760.1	1979.0	2179.0	2327.8	2334.3
40°	1112.5	1117.8	1156.4	1197.7	1269.5	1383.1	1521.8	1715.4	1954.9	2162.7	2249.3
42.5°	992.3	1004.2	1020.5	1060.2	1117.3	1202.9	1331.9	1491.8	1711.3	1950.4	2119.9
45°	852.6	866.2	876.3	902.7	943.3	1000.8	1090.8	1237.0	1404.1	1651.1	1879.1
47.5°	760.3	761.4	769.0	788.8	816.5	859.6	923.3	1017.2	1170.6	1371.0	1605.1
50°	694.3	705.1	707.8	723.3	745.0	776.8	829.6	909.5	1035.4	1211.3	1426.4
52.5°	647.7	651.0	658.6	669.8	688.7	713.5	759.2	821.7	920.6	1070.5	1268.3
55°	579.2	579.2	586.7	595.5	606.3	628.6	659.1	705.1	780.2	896.6	1060.3
57.5°	515.9	519.3	524.5	527.3	536.5	551.2	576.7	611.6	667.6	757.2	887.4
60°	473.6	479.7	479.1	484.5	492.7	504.1	525.8	554.2	604.2	676.0	785.7
62.5°	436.9	436.4	436.4	442.8	450.9	461.9	476.0	500.6	543.1	606.7	700.1
65°	376.3	374.9	379.6	383.7	386.4	394.5	405.4	427.0	455.4	502.7	575.1
67.5°	322.4	318.5	321.0	322.4	327.0	333.3	343.5	356.9	379.4	417.5	472.1
70°	285.6	282.1	281.5	282.8	286.9	291.6	299.1	311.9	332.9	363.3	403.3
72.5°	247.6	245.4	245.2	248.2	250.1	253.2	258.5	270.3	286.9	309.8	347.0
75°	193.6	193.6	193.6	194.2	196.2	199.0	203.0	209.1	222.0	238.2	263.2
77.5°	145.1	144.9	144.1	144.0	147.0	148.2	149.1	154.8	162.0	173.0	191.2
80°	113.7	110.3	111.7	113.7	115.0	115.7	117.8	119.1	125.2	131.3	144.1
82.5°	84.5	81.6	81.9	85.0	85.2	85.9	88.0	89.9	92.1	97.7	104.6
85°	44.7	44.7	45.4	45.4	46.0	45.4	47.4	48.0	48.0	51.4	55.4
87.5°	22.9	21.7	22.1	22.6	22.0	22.3	22.6	23.0	23.3	23.7	23.6
90°	33.2	32.7	32.2	31.8	31.3	30.5	29.5	28.5	27.6	26.6	23.3
92.5°	36.8	36.4	36.2	35.9	35.6	34.6	33.1	31.5	29.9	28.3	25.9
95°	42.1	42.1	42.1	42.1	42.1	41.2	39.5	37.8	36.1	34.4	31.6
97.5°	45.6	45.4	45.1	44.9	44.6	43.5	41.6	39.6	37.6	35.6	53.4
100°	46.5	46.2	46.0	45.7	45.5	44.4	42.4	40.5	38.5	36.5	74.9
102.5°	47.4	46.9	46.5	46.1	45.6	48.5	54.5	60.6	66.7	72.8	114.8
105°	48.7	48.2	47.7	47.3	46.8	68.3	111.8	155.3	198.9	242.5	264.6
107.5°	153.0	185.8	218.6	251.5	284.3	316.7	348.6	380.6	412.4	444.4	440.9
110°	304.4	339.7	374.8	410.0	445.1	466.8	474.9	483.0	491.2	499.3	496.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	522.4	529.8	537.2	544.6	552.1	555.7	555.5	555.4	555.3	555.1	552.4
115°	651.0	650.0	649.0	648.0	647.0	645.3	642.8	640.4	637.9	635.5	633.3
117.5°	723.2	723.0	722.7	722.6	722.4	721.3	719.3	717.4	715.4	713.4	712.3
120°	772.7	772.7	772.7	772.7	772.7	771.8	769.8	767.8	765.9	763.9	763.2
122.5°	821.5	821.3	821.0	820.9	820.7	819.9	818.6	817.2	815.8	814.4	813.5
125°	890.1	889.6	889.2	888.6	888.1	887.6	887.2	886.7	886.1	885.7	884.7
127.5°	956.1	956.6	957.1	957.6	958.0	957.9	957.1	956.3	955.5	954.8	953.6
130°	998.6	999.1	999.6	1000.1	1000.6	1000.3	999.4	998.3	997.4	996.3	995.4
132.5°	1037.6	1038.3	1039.0	1039.7	1040.3	1040.2	1039.2	1038.2	1037.2	1036.2	1035.4
135°	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1	1099.3	1098.6	1097.9	1097.2	1096.1
137.5°	1153.1	1153.7	1154.2	1154.6	1155.1	1154.8	1153.6	1152.4	1151.2	1150.0	1149.5
140°	1186.8	1187.3	1187.7	1188.3	1188.8	1188.5	1187.6	1186.5	1185.6	1184.6	1183.9
142.5°	1217.8	1218.5	1219.2	1219.9	1220.6	1220.6	1219.7	1218.9	1218.1	1217.4	1216.6
145°	1265.4	1265.4	1265.4	1265.4	1265.4	1265.2	1264.6	1264.2	1263.7	1263.2	1262.7
147.5°	1300.8	1302.0	1303.1	1304.2	1305.4	1305.7	1305.2	1304.7	1304.2	1303.7	1303.2
150°	1327.4	1328.2	1328.9	1329.6	1330.3	1330.5	1330.0	1329.5	1329.0	1328.5	1328.0
152.5°	1348.7	1349.8	1350.9	1352.0	1353.2	1353.3	1352.5	1351.5	1350.7	1349.8	1349.4
155°	1378.4	1379.8	1381.3	1382.8	1384.2	1384.4	1383.1	1381.9	1380.7	1379.4	1379.2
157.5°	1403.3	1405.2	1407.2	1409.1	1411.0	1411.3	1409.8	1408.3	1406.8	1405.3	1405.6
160°	1419.3	1421.0	1422.7	1424.4	1426.2	1426.3	1424.9	1423.3	1421.9	1420.4	1420.6
162.5°	1434.3	1435.9	1437.4	1438.9	1440.5	1440.4	1438.7	1437.0	1435.4	1433.7	1433.9
165°	1452.5	1454.2	1456.0	1457.7	1459.4	1459.3	1457.3	1455.3	1453.4	1451.4	1451.6
167.5°	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4	1471.4	1469.6	1467.6	1465.6	1465.6
170°	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4	1479.5	1477.5	1475.5	1473.5	1473.5
172.5°	1478.0	1480.1	1482.3	1484.5	1486.6	1486.8	1484.8	1482.8	1480.8	1478.9	1478.7
175°	1484.6	1486.6	1488.6	1490.6	1492.5	1492.6	1490.9	1489.2	1487.5	1485.7	1485.5
177.5°	1486.6	1488.6	1490.6	1492.5	1494.5	1494.7	1493.1	1491.5	1490.0	1488.4	1488.2
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1439.9	1435.6	1431.3	1423.7	1417.2	1408.0	1405.3	1402.1	1392.3	1383.7	1377.2
5°	1527.9	1511.7	1488.0	1466.4	1448.8	1425.1	1411.5	1397.3	1377.0	1358.7	1343.8
7.5°	1620.0	1588.0	1551.2	1511.4	1474.4	1438.6	1409.8	1384.1	1355.6	1328.7	1307.8
10°	1693.1	1647.0	1595.6	1540.2	1492.7	1446.7	1408.2	1374.3	1337.8	1306.0	1279.6
12.5°	1776.4	1708.2	1637.3	1569.9	1513.9	1450.0	1403.3	1360.3	1318.9	1280.6	1250.9
15°	1875.1	1788.5	1704.5	1611.9	1526.6	1446.7	1391.3	1337.1	1289.1	1249.8	1211.9
17.5°	1965.0	1866.8	1756.3	1643.5	1540.7	1446.0	1368.2	1307.1	1247.0	1198.9	1161.1
20°	2015.9	1904.2	1779.0	1661.9	1548.3	1442.7	1357.5	1284.4	1219.3	1168.6	1126.0
22.5°	2059.7	1929.1	1799.6	1674.4	1547.7	1434.0	1337.4	1262.1	1191.8	1142.1	1096.7
25°	2105.1	1948.9	1818.9	1672.1	1530.7	1412.9	1304.7	1219.3	1149.0	1090.8	1044.1
27.5°	2144.1	1947.5	1793.3	1635.4	1503.8	1385.9	1270.2	1178.8	1104.1	1040.9	993.5
30°	2170.1	1950.2	1766.8	1610.5	1477.9	1356.1	1243.7	1151.7	1073.2	1008.9	964.2
32.5°	2186.3	1948.5	1742.4	1575.9	1436.8	1329.0	1215.0	1119.7	1039.1	975.9	932.9
35°	2195.8	1936.6	1700.5	1504.3	1370.3	1265.4	1170.0	1071.2	986.6	927.7	879.0
37.5°	2176.9	1911.6	1651.7	1435.2	1288.6	1185.3	1105.0	1020.8	939.9	875.1	833.1
40°	2147.1	1895.4	1613.9	1386.6	1232.3	1132.7	1064.5	981.9	902.0	840.4	801.2
42.5°	2090.2	1862.3	1572.2	1332.4	1173.8	1074.3	1011.3	942.4	866.9	809.0	769.8
45°	1951.5	1790.4	1509.7	1251.2	1087.4	984.6	929.1	879.0	810.6	754.5	720.7
47.5°	1759.1	1682.4	1419.3	1165.5	997.3	898.4	840.7	800.4	750.4	705.1	672.6
50°	1625.4	1593.5	1358.1	1107.1	937.2	840.4	785.0	748.4	712.6	667.2	637.4
52.5°	1471.1	1490.7	1286.7	1046.4	876.1	780.9	728.7	699.6	667.1	629.8	603.9
55°	1253.9	1324.9	1163.2	944.6	785.0	694.3	644.9	619.1	600.2	572.5	550.2
57.5°	1050.5	1140.9	1029.8	839.7	695.5	617.3	569.9	541.9	529.7	515.2	497.7
60°	929.8	1019.1	934.5	769.4	635.4	560.9	519.0	495.3	483.1	473.0	458.1
62.5°	822.0	912.4	841.4	697.9	576.4	507.4	470.8	447.7	438.2	432.9	420.3
65°	674.0	751.8	704.4	586.7	492.0	431.0	397.9	381.7	372.8	370.8	362.7
67.5°	548.5	607.8	573.3	486.6	412.1	359.5	331.3	317.5	310.7	310.0	303.9
70°	466.2	521.7	495.3	416.8	352.6	311.3	286.9	274.7	270.7	270.0	266.7
72.5°	402.3	441.1	420.1	354.6	304.9	267.4	249.5	236.9	232.2	233.2	230.9
75°	297.7	326.8	314.7	269.3	229.4	205.0	190.1	182.0	178.0	180.0	177.3
77.5°	214.2	232.6	221.7	190.3	165.7	148.1	137.1	132.1	128.5	128.3	127.1
80°	161.7	172.5	166.4	147.5	127.3	112.4	103.5	100.1	98.2	97.5	96.8
82.5°	115.2	124.4	117.2	104.2	90.4	81.5	76.5	72.0	70.5	70.9	70.3
85°	58.2	61.6	58.9	50.7	45.4	41.2	38.6	36.5	35.2	35.9	34.5
87.5°	24.0	23.9	21.7	18.9	17.4	15.2	14.8	13.2	12.7	13.1	13.1
90°	20.1	17.0	13.8	10.9	8.5	6.0	3.5	1.1	3.5	6.0	8.5
92.5°	23.5	21.1	18.7	17.8	18.5	19.2	19.9	20.6	19.9	19.2	18.5
95°	28.9	26.2	23.5	27.2	37.3	47.4	57.4	67.5	57.4	47.4	37.3
97.5°	71.1	88.8	106.5	117.6	122.2	126.7	131.2	135.7	131.2	126.7	122.2
100°	113.3	151.7	190.0	206.8	201.8	196.9	192.0	187.1	192.0	196.9	201.8
102.5°	156.7	198.6	240.6	259.8	256.1	252.6	249.1	245.6	249.1	252.6	256.1
105°	286.7	308.8	331.1	340.7	338.0	335.4	332.6	329.9	332.6	335.4	338.0
107.5°	437.4	433.9	430.4	427.6	425.4	423.3	421.1	419.0	421.1	423.3	425.4
110°	493.9	491.2	488.4	486.1	484.1	482.2	480.3	478.3	480.3	482.2	484.1



TEST NUMBER: P332228-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	549.7	547.0	544.2	542.0	540.3	538.5	536.7	534.9	536.7	538.5	540.3
115°	631.0	628.8	626.6	624.7	623.3	621.8	620.4	618.9	620.4	621.8	623.3
117.5°	711.2	710.0	708.9	707.4	705.6	703.8	702.0	700.2	702.0	703.8	705.6
120°	762.4	761.6	761.0	759.5	757.2	755.0	752.9	750.6	752.9	755.0	757.2
122.5°	812.5	811.6	810.6	809.3	807.4	805.6	803.8	802.0	803.8	805.6	807.4
125°	883.7	882.7	881.8	880.3	878.3	876.3	874.3	872.4	874.3	876.3	878.3
127.5°	952.4	951.2	950.0	948.5	946.5	944.5	942.5	940.6	942.5	944.5	946.5
130°	994.5	993.4	992.5	991.0	989.0	987.1	985.1	983.1	985.1	987.1	989.0
132.5°	1034.7	1033.9	1033.1	1031.7	1029.8	1027.8	1025.8	1023.8	1025.8	1027.8	1029.8
135°	1095.2	1094.2	1093.2	1092.0	1090.5	1089.0	1087.5	1086.1	1087.5	1089.0	1090.5
137.5°	1149.0	1148.4	1147.9	1146.7	1144.8	1143.0	1141.1	1139.2	1141.1	1143.0	1144.8
140°	1183.1	1182.4	1181.6	1180.5	1179.1	1177.6	1176.1	1174.7	1176.1	1177.6	1179.1
142.5°	1215.9	1215.1	1214.4	1213.3	1211.9	1210.4	1208.8	1207.4	1208.8	1210.4	1211.9
145°	1262.2	1261.7	1261.2	1260.2	1258.4	1256.7	1255.0	1253.3	1255.0	1256.7	1258.4
147.5°	1302.7	1302.3	1301.7	1301.0	1299.8	1298.6	1297.5	1296.4	1297.5	1298.6	1299.8
150°	1327.5	1327.1	1326.5	1325.9	1325.2	1324.5	1323.7	1323.0	1323.7	1324.5	1325.2
152.5°	1349.2	1348.9	1348.6	1348.2	1347.9	1347.6	1347.2	1346.9	1347.2	1347.6	1347.9
155°	1379.0	1378.7	1378.5	1378.5	1379.1	1379.6	1380.1	1380.5	1380.1	1379.6	1379.1
157.5°	1405.8	1406.1	1406.4	1406.4	1406.5	1406.6	1406.6	1406.7	1406.6	1406.6	1406.5
160°	1420.9	1421.2	1421.4	1421.6	1421.9	1422.1	1422.4	1422.6	1422.4	1422.1	1421.9
162.5°	1434.2	1434.4	1434.7	1435.1	1435.7	1436.4	1437.0	1437.7	1437.0	1436.4	1435.7
165°	1451.9	1452.2	1452.4	1452.9	1453.6	1454.3	1455.1	1455.9	1455.1	1454.3	1453.6
167.5°	1465.6	1465.6	1465.6	1466.0	1467.1	1468.0	1469.0	1470.0	1469.0	1468.0	1467.1
170°	1473.5	1473.5	1473.5	1474.0	1475.1	1476.0	1477.0	1478.0	1477.0	1476.0	1475.1
172.5°	1478.5	1478.3	1478.1	1478.6	1479.7	1480.9	1482.1	1483.3	1482.1	1480.9	1479.7
175°	1485.2	1485.0	1484.7	1485.2	1486.4	1487.7	1488.9	1490.1	1488.9	1487.7	1486.4
177.5°	1488.0	1487.8	1487.6	1488.0	1489.0	1490.0	1490.9	1491.9	1490.9	1490.0	1489.0
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1373.4	1369.6	1364.2	1356.1	1349.5	1339.3	1339.3	1340.9	1340.9	1340.4	1339.3
5°	1331.7	1321.5	1309.4	1295.2	1280.3	1265.4	1262.7	1257.2	1253.2	1250.5	1247.2
7.5°	1287.7	1269.7	1252.0	1232.1	1213.9	1198.9	1188.5	1179.8	1174.3	1168.4	1164.0
10°	1257.9	1235.6	1214.6	1193.7	1170.6	1152.4	1140.9	1132.7	1126.7	1121.3	1118.5
12.5°	1222.8	1197.2	1174.1	1154.2	1128.9	1110.2	1099.2	1095.4	1088.2	1076.9	1070.9
15°	1171.3	1147.6	1119.9	1089.4	1077.3	1054.3	1041.4	1035.4	1031.2	1022.4	1019.8
17.5°	1127.3	1096.3	1065.2	1042.5	1019.9	1001.2	994.0	986.4	981.0	973.9	971.7
20°	1092.2	1064.5	1036.0	1011.7	987.9	967.7	961.6	956.1	950.7	947.4	944.6
22.5°	1056.4	1028.7	1005.1	982.4	957.1	943.8	937.2	931.3	927.5	925.1	922.5
25°	1006.3	981.9	955.5	935.1	914.9	906.0	902.0	898.6	896.0	892.5	891.8
27.5°	961.3	934.8	913.3	894.4	879.9	872.5	868.6	866.9	867.5	868.7	869.5
30°	927.7	903.4	885.8	869.5	856.0	849.2	848.5	848.5	851.3	852.0	853.3
32.5°	896.9	876.8	859.3	843.5	833.3	828.6	831.2	831.2	833.4	835.2	837.6
35°	852.0	834.3	820.8	807.3	798.5	800.5	801.8	803.2	806.6	810.6	813.4
37.5°	809.0	793.8	779.6	769.1	765.1	768.7	772.0	774.8	778.7	781.9	784.5
40°	778.2	766.6	753.1	743.6	745.0	747.1	749.8	753.1	756.6	758.5	761.3
42.5°	749.5	737.4	727.2	719.3	721.2	723.8	725.4	727.2	731.1	734.8	736.3
45°	705.8	696.3	686.8	682.1	683.5	684.8	686.1	688.2	691.6	694.3	694.9
47.5°	656.7	650.1	643.7	639.0	641.2	640.7	642.5	646.8	647.8	649.5	653.2
50°	625.3	619.1	611.7	610.4	610.4	610.4	611.1	616.5	616.5	619.1	621.9
52.5°	590.6	586.7	581.9	579.5	578.4	578.4	581.3	584.0	585.0	588.8	591.6
55°	539.3	535.3	531.2	529.2	527.8	529.2	534.6	535.9	539.3	541.3	543.4
57.5°	485.9	482.8	479.5	478.4	478.1	479.9	482.8	486.9	487.8	494.0	497.1
60°	450.6	445.9	443.2	443.2	441.9	448.0	446.6	453.4	454.7	458.8	463.6
62.5°	414.4	408.0	407.0	407.0	408.9	410.6	412.5	415.5	419.0	424.1	427.8
65°	355.9	352.6	357.3	356.6	355.2	359.3	359.3	362.7	366.8	371.5	378.9
67.5°	300.6	298.9	299.2	299.2	301.3	303.6	305.5	308.4	313.3	318.3	323.2
70°	263.2	265.3	261.9	264.6	266.7	267.3	268.6	272.7	278.1	281.5	286.9
72.5°	227.0	226.8	227.2	228.3	230.3	231.5	232.9	237.5	243.5	246.3	250.6
75°	174.6	173.9	175.9	175.9	179.3	180.6	182.0	184.1	189.5	193.6	196.9
77.5°	127.5	128.3	127.9	130.2	129.2	129.5	133.7	135.8	136.3	144.3	146.0
80°	96.1	97.5	98.2	98.8	99.4	98.2	102.9	104.9	104.9	109.6	113.0
82.5°	69.1	69.8	71.6	72.2	72.4	73.8	74.1	75.7	77.3	79.3	83.8
85°	34.5	36.5	37.2	36.5	37.2	35.9	37.9	38.6	39.3	39.3	39.3
87.5°	13.0	14.1	14.2	15.4	15.5	16.7	16.9	16.0	16.2	18.0	16.0
90°	10.9	13.8	17.0	20.1	23.3	26.6	27.6	28.5	29.5	30.5	31.3
92.5°	17.8	18.7	21.1	23.5	25.9	28.3	29.9	31.5	33.1	34.6	35.6
95°	27.2	23.5	26.2	28.9	31.6	34.4	36.1	37.8	39.5	41.2	42.1
97.5°	117.6	106.5	88.8	71.1	53.4	35.6	37.6	39.6	41.6	43.5	44.6
100°	206.8	190.0	151.7	113.3	74.9	36.5	38.5	40.5	42.4	44.4	45.5
102.5°	259.8	240.6	198.6	156.7	114.8	72.8	66.7	60.6	54.5	48.5	45.6
105°	340.7	331.1	308.8	286.7	264.6	242.5	198.9	155.3	111.8	68.3	46.8
107.5°	427.6	430.4	433.9	437.4	440.9	444.4	412.4	380.6	348.6	316.7	284.3
110°	486.1	488.4	491.2	493.9	496.6	499.3	491.2	483.0	474.9	466.8	445.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	542.0	544.2	547.0	549.7	552.4	555.1	555.3	555.4	555.5	555.7	552.1
115°	624.7	626.6	628.8	631.0	633.3	635.5	637.9	640.4	642.8	645.3	647.0
117.5°	707.4	708.9	710.0	711.2	712.3	713.4	715.4	717.4	719.3	721.3	722.4
120°	759.5	761.0	761.6	762.4	763.2	763.9	765.9	767.8	769.8	771.8	772.7
122.5°	809.3	810.6	811.6	812.5	813.5	814.4	815.8	817.2	818.6	819.9	820.7
125°	880.3	881.8	882.7	883.7	884.7	885.7	886.1	886.7	887.2	887.6	888.1
127.5°	948.5	950.0	951.2	952.4	953.6	954.8	955.5	956.3	957.1	957.9	958.0
130°	991.0	992.5	993.4	994.5	995.4	996.3	997.4	998.3	999.4	1000.3	1000.6
132.5°	1031.7	1033.1	1033.9	1034.7	1035.4	1036.2	1037.2	1038.2	1039.2	1040.2	1040.3
135°	1092.0	1093.2	1094.2	1095.2	1096.1	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1
137.5°	1146.7	1147.9	1148.4	1149.0	1149.5	1150.0	1151.2	1152.4	1153.6	1154.8	1155.1
140°	1180.5	1181.6	1182.4	1183.1	1183.9	1184.6	1185.6	1186.5	1187.6	1188.5	1188.8
142.5°	1213.3	1214.4	1215.1	1215.9	1216.6	1217.4	1218.1	1218.9	1219.7	1220.6	1220.6
145°	1260.2	1261.2	1261.7	1262.2	1262.7	1263.2	1263.7	1264.2	1264.6	1265.2	1265.4
147.5°	1301.0	1301.7	1302.3	1302.7	1303.2	1303.7	1304.2	1304.7	1305.2	1305.7	1305.4
150°	1325.9	1326.5	1327.1	1327.5	1328.0	1328.5	1329.0	1329.5	1330.0	1330.5	1330.3
152.5°	1348.2	1348.6	1348.9	1349.2	1349.4	1349.8	1350.7	1351.5	1352.5	1353.3	1353.2
155°	1378.5	1378.5	1378.7	1379.0	1379.2	1379.4	1380.7	1381.9	1383.1	1384.4	1384.2
157.5°	1406.4	1406.4	1406.1	1405.8	1405.6	1405.3	1406.8	1408.3	1409.8	1411.3	1411.0
160°	1421.6	1421.4	1421.2	1420.9	1420.6	1420.4	1421.9	1423.3	1424.9	1426.3	1426.2
162.5°	1435.1	1434.7	1434.4	1434.2	1433.9	1433.7	1435.4	1437.0	1438.7	1440.4	1440.5
165°	1452.9	1452.4	1452.2	1451.9	1451.6	1451.4	1453.4	1455.3	1457.3	1459.3	1459.4
167.5°	1466.0	1465.6	1465.6	1465.6	1465.6	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4
170°	1474.0	1473.5	1473.5	1473.5	1473.5	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4
172.5°	1478.6	1478.1	1478.3	1478.5	1478.7	1478.9	1480.8	1482.8	1484.8	1486.8	1486.6
175°	1485.2	1484.7	1485.0	1485.2	1485.5	1485.7	1487.5	1489.2	1490.9	1492.6	1492.5
177.5°	1488.0	1487.6	1487.8	1488.0	1488.2	1488.4	1490.0	1491.5	1493.1	1494.7	1494.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1335.5	1335.0	1338.8	1336.0	1338.8	1335.0	1335.5	1339.3	1340.4	1340.9	1340.9
5°	1243.0	1245.1	1238.3	1238.3	1238.3	1245.1	1243.0	1247.2	1250.5	1253.2	1257.2
7.5°	1160.8	1157.8	1158.0	1154.4	1158.0	1157.8	1160.8	1164.0	1168.4	1174.3	1179.8
10°	1110.4	1106.4	1105.0	1105.7	1105.0	1106.4	1110.4	1118.5	1121.3	1126.7	1132.7
12.5°	1068.8	1067.9	1059.0	1059.1	1059.0	1067.9	1068.8	1070.9	1076.9	1088.2	1095.4
15°	1019.8	1006.9	1005.6	1009.6	1005.6	1006.9	1019.8	1019.8	1022.4	1031.2	1035.4
17.5°	970.6	963.9	964.2	962.3	964.2	963.9	970.6	971.7	973.9	981.0	986.4
20°	944.6	940.6	939.9	935.1	939.9	940.6	944.6	944.6	947.4	950.7	956.1
22.5°	920.8	919.5	919.9	914.6	919.9	919.5	920.8	922.5	925.1	927.5	931.3
25°	891.2	894.6	891.8	891.8	891.8	894.6	891.2	891.8	892.5	896.0	898.6
27.5°	871.2	871.0	869.7	869.7	869.7	871.0	871.2	869.5	868.7	867.5	866.9
30°	856.0	855.3	856.7	856.7	856.7	855.3	856.0	853.3	852.0	851.3	848.5
32.5°	840.9	841.8	842.1	842.6	842.1	841.8	840.9	837.6	835.2	833.4	831.2
35°	817.4	818.1	820.1	818.8	820.1	818.1	817.4	813.4	810.6	806.6	803.2
37.5°	785.7	788.8	788.2	789.3	788.2	788.8	785.7	784.5	781.9	778.7	774.8
40°	761.9	764.0	763.3	763.3	763.3	764.0	761.9	761.3	758.5	756.6	753.1
42.5°	737.6	739.1	737.3	736.2	737.3	739.1	737.6	736.3	734.8	731.1	727.2
45°	697.7	696.3	698.4	695.6	698.4	696.3	697.7	694.9	694.3	691.6	688.2
47.5°	653.0	654.4	654.9	656.9	654.9	654.4	653.0	653.2	649.5	647.8	646.8
50°	623.2	627.2	627.2	626.6	627.2	627.2	623.2	621.9	619.1	616.5	616.5
52.5°	594.0	595.9	598.6	598.5	598.6	595.9	594.0	591.6	588.8	585.0	584.0
55°	548.8	550.2	551.5	552.2	551.5	550.2	548.8	543.4	541.3	539.3	535.9
57.5°	502.0	501.4	504.6	505.6	504.6	501.4	502.0	497.1	494.0	487.8	486.9
60°	468.9	468.9	474.3	476.4	474.3	468.9	468.9	463.6	458.8	454.7	453.4
62.5°	433.8	435.9	441.3	438.5	441.3	435.9	433.8	427.8	424.1	419.0	415.5
65°	382.3	387.7	387.0	389.8	387.0	387.7	382.3	378.9	371.5	366.8	362.7
67.5°	328.6	332.0	336.8	337.3	336.8	332.0	328.6	323.2	318.3	313.3	308.4
70°	292.3	295.7	298.4	300.4	298.4	295.7	292.3	286.9	281.5	278.1	272.7
72.5°	257.2	258.9	265.4	262.5	265.4	258.9	257.2	250.6	246.3	243.5	237.5
75°	201.6	206.4	210.4	208.4	210.4	206.4	201.6	196.9	193.6	189.5	184.1
77.5°	149.1	153.9	155.8	154.0	155.8	153.9	149.1	146.0	144.3	136.3	135.8
80°	117.8	117.1	121.1	120.5	121.1	117.1	117.8	113.0	109.6	104.9	104.9
82.5°	86.4	85.7	87.6	88.0	87.6	85.7	86.4	83.8	79.3	77.3	75.7
85°	41.9	44.0	41.2	40.6	41.2	44.0	41.9	39.3	39.3	39.3	38.6
87.5°	16.1	16.2	15.8	15.3	15.8	16.2	16.1	16.0	18.0	16.2	16.0
90°	31.8	32.2	32.7	33.2	32.7	32.2	31.8	31.3	30.5	29.5	28.5
92.5°	35.9	36.2	36.4	36.8	36.4	36.2	35.9	35.6	34.6	33.1	31.5
95°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	41.2	39.5	37.8
97.5°	44.9	45.1	45.4	45.6	45.4	45.1	44.9	44.6	43.5	41.6	39.6
100°	45.7	46.0	46.2	46.5	46.2	46.0	45.7	45.5	44.4	42.4	40.5
102.5°	46.1	46.5	46.9	47.4	46.9	46.5	46.1	45.6	48.5	54.5	60.6
105°	47.3	47.7	48.2	48.7	48.2	47.7	47.3	46.8	68.3	111.8	155.3
107.5°	251.5	218.6	185.8	153.0	185.8	218.6	251.5	284.3	316.7	348.6	380.6
110°	410.0	374.8	339.7	304.4	339.7	374.8	410.0	445.1	466.8	474.9	483.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	544.6	537.2	529.8	522.4	529.8	537.2	544.6	552.1	555.7	555.5	555.4
115°	648.0	649.0	650.0	651.0	650.0	649.0	648.0	647.0	645.3	642.8	640.4
117.5°	722.6	722.7	723.0	723.2	723.0	722.7	722.6	722.4	721.3	719.3	717.4
120°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	771.8	769.8	767.8
122.5°	820.9	821.0	821.3	821.5	821.3	821.0	820.9	820.7	819.9	818.6	817.2
125°	888.6	889.2	889.6	890.1	889.6	889.2	888.6	888.1	887.6	887.2	886.7
127.5°	957.6	957.1	956.6	956.1	956.6	957.1	957.6	958.0	957.9	957.1	956.3
130°	1000.1	999.6	999.1	998.6	999.1	999.6	1000.1	1000.6	1000.3	999.4	998.3
132.5°	1039.7	1039.0	1038.3	1037.6	1038.3	1039.0	1039.7	1040.3	1040.2	1039.2	1038.2
135°	1099.3	1098.6	1097.9	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1	1099.3	1098.6
137.5°	1154.6	1154.2	1153.7	1153.1	1153.7	1154.2	1154.6	1155.1	1154.8	1153.6	1152.4
140°	1188.3	1187.7	1187.3	1186.8	1187.3	1187.7	1188.3	1188.8	1188.5	1187.6	1186.5
142.5°	1219.9	1219.2	1218.5	1217.8	1218.5	1219.2	1219.9	1220.6	1220.6	1219.7	1218.9
145°	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.2	1264.6	1264.2
147.5°	1304.2	1303.1	1302.0	1300.8	1302.0	1303.1	1304.2	1305.4	1305.7	1305.2	1304.7
150°	1329.6	1328.9	1328.2	1327.4	1328.2	1328.9	1329.6	1330.3	1330.5	1330.0	1329.5
152.5°	1352.0	1350.9	1349.8	1348.7	1349.8	1350.9	1352.0	1353.2	1353.3	1352.5	1351.5
155°	1382.8	1381.3	1379.8	1378.4	1379.8	1381.3	1382.8	1384.2	1384.4	1383.1	1381.9
157.5°	1409.1	1407.2	1405.2	1403.3	1405.2	1407.2	1409.1	1411.0	1411.3	1409.8	1408.3
160°	1424.4	1422.7	1421.0	1419.3	1421.0	1422.7	1424.4	1426.2	1426.3	1424.9	1423.3
162.5°	1438.9	1437.4	1435.9	1434.3	1435.9	1437.4	1438.9	1440.5	1440.4	1438.7	1437.0
165°	1457.7	1456.0	1454.2	1452.5	1454.2	1456.0	1457.7	1459.4	1459.3	1457.3	1455.3
167.5°	1471.4	1469.6	1467.6	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4	1471.4	1469.6
170°	1479.5	1477.5	1475.5	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4	1479.5	1477.5
172.5°	1484.5	1482.3	1480.1	1478.0	1480.1	1482.3	1484.5	1486.6	1486.8	1484.8	1482.8
175°	1490.6	1488.6	1486.6	1484.6	1486.6	1488.6	1490.6	1492.5	1492.6	1490.9	1489.2
177.5°	1492.5	1490.6	1488.6	1486.6	1488.6	1490.6	1492.5	1494.5	1494.7	1493.1	1491.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1339.3	1339.3	1349.5	1356.1	1364.2	1369.6	1373.4	1377.2	1383.7	1392.3	1402.1
5°	1262.7	1265.4	1280.3	1295.2	1309.4	1321.5	1331.7	1343.8	1358.7	1377.0	1397.3
7.5°	1188.5	1198.9	1213.9	1232.1	1252.0	1269.7	1287.7	1307.8	1328.7	1355.6	1384.1
10°	1140.9	1152.4	1170.6	1193.7	1214.6	1235.6	1257.9	1279.6	1306.0	1337.8	1374.3
12.5°	1099.2	1110.2	1128.9	1154.2	1174.1	1197.2	1222.8	1250.9	1280.6	1318.9	1360.3
15°	1041.4	1054.3	1077.3	1089.4	1119.9	1147.6	1171.3	1211.9	1249.8	1289.1	1337.1
17.5°	994.0	1001.2	1019.9	1042.5	1065.2	1096.3	1127.3	1161.1	1198.9	1247.0	1307.1
20°	961.6	967.7	987.9	1011.7	1036.0	1064.5	1092.2	1126.0	1168.6	1219.3	1284.4
22.5°	937.2	943.8	957.1	982.4	1005.1	1028.7	1056.4	1096.7	1142.1	1191.8	1262.1
25°	902.0	906.0	914.9	935.1	955.5	981.9	1006.3	1044.1	1090.8	1149.0	1219.3
27.5°	868.6	872.5	879.9	894.4	913.3	934.8	961.3	993.5	1040.9	1104.1	1178.8
30°	848.5	849.2	856.0	869.5	885.8	903.4	927.7	964.2	1008.9	1073.2	1151.7
32.5°	831.2	828.6	833.3	843.5	859.3	876.8	896.9	932.9	975.9	1039.1	1119.7
35°	801.8	800.5	798.5	807.3	820.8	834.3	852.0	879.0	927.7	986.6	1071.2
37.5°	772.0	768.7	765.1	769.1	779.6	793.8	809.0	833.1	875.1	939.9	1020.8
40°	749.8	747.1	745.0	743.6	753.1	766.6	778.2	801.2	840.4	902.0	981.9
42.5°	725.4	723.8	721.2	719.3	727.2	737.4	749.5	769.8	809.0	866.9	942.4
45°	686.1	684.8	683.5	682.1	686.8	696.3	705.8	720.7	754.5	810.6	879.0
47.5°	642.5	640.7	641.2	639.0	643.7	650.1	656.7	672.6	705.1	750.4	800.4
50°	611.1	610.4	610.4	610.4	611.7	619.1	625.3	637.4	667.2	712.6	748.4
52.5°	581.3	578.4	578.4	579.5	581.9	586.7	590.6	603.9	629.8	667.1	699.6
55°	534.6	529.2	527.8	529.2	531.2	535.3	539.3	550.2	572.5	600.2	619.1
57.5°	482.8	479.9	478.1	478.4	479.5	482.8	485.9	497.7	515.2	529.7	541.9
60°	446.6	448.0	441.9	443.2	443.2	445.9	450.6	458.1	473.0	483.1	495.3
62.5°	412.5	410.6	408.9	407.0	407.0	408.0	414.4	420.3	432.9	438.2	447.7
65°	359.3	359.3	355.2	356.6	357.3	352.6	355.9	362.7	370.8	372.8	381.7
67.5°	305.5	303.6	301.3	299.2	299.2	298.9	300.6	303.9	310.0	310.7	317.5
70°	268.6	267.3	266.7	264.6	261.9	265.3	263.2	266.7	270.0	270.7	274.7
72.5°	232.9	231.5	230.3	228.3	227.2	226.8	227.0	230.9	233.2	232.2	236.9
75°	182.0	180.6	179.3	175.9	175.9	173.9	174.6	177.3	180.0	178.0	182.0
77.5°	133.7	129.5	129.2	130.2	127.9	128.3	127.5	127.1	128.3	128.5	132.1
80°	102.9	98.2	99.4	98.8	98.2	97.5	96.1	96.8	97.5	98.2	100.1
82.5°	74.1	73.8	72.4	72.2	71.6	69.8	69.1	70.3	70.9	70.5	72.0
85°	37.9	35.9	37.2	36.5	37.2	36.5	34.5	34.5	35.9	35.2	36.5
87.5°	16.9	16.7	15.5	15.4	14.2	14.1	13.0	13.1	13.1	12.7	13.2
90°	27.6	26.6	23.3	20.1	17.0	13.8	10.9	8.5	6.0	3.5	1.1
92.5°	29.9	28.3	25.9	23.5	21.1	18.7	17.8	18.5	19.2	19.9	20.6
95°	36.1	34.4	31.6	28.9	26.2	23.5	27.2	37.3	47.4	57.4	67.5
97.5°	37.6	35.6	53.4	71.1	88.8	106.5	117.6	122.2	126.7	131.2	135.7
100°	38.5	36.5	74.9	113.3	151.7	190.0	206.8	201.8	196.9	192.0	187.1
102.5°	66.7	72.8	114.8	156.7	198.6	240.6	259.8	256.1	252.6	249.1	245.6
105°	198.9	242.5	264.6	286.7	308.8	331.1	340.7	338.0	335.4	332.6	329.9
107.5°	412.4	444.4	440.9	437.4	433.9	430.4	427.6	425.4	423.3	421.1	419.0
110°	491.2	499.3	496.6	493.9	491.2	488.4	486.1	484.1	482.2	480.3	478.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	555.3	555.1	552.4	549.7	547.0	544.2	542.0	540.3	538.5	536.7	534.9
115°	637.9	635.5	633.3	631.0	628.8	626.6	624.7	623.3	621.8	620.4	618.9
117.5°	715.4	713.4	712.3	711.2	710.0	708.9	707.4	705.6	703.8	702.0	700.2
120°	765.9	763.9	763.2	762.4	761.6	761.0	759.5	757.2	755.0	752.9	750.6
122.5°	815.8	814.4	813.5	812.5	811.6	810.6	809.3	807.4	805.6	803.8	802.0
125°	886.1	885.7	884.7	883.7	882.7	881.8	880.3	878.3	876.3	874.3	872.4
127.5°	955.5	954.8	953.6	952.4	951.2	950.0	948.5	946.5	944.5	942.5	940.6
130°	997.4	996.3	995.4	994.5	993.4	992.5	991.0	989.0	987.1	985.1	983.1
132.5°	1037.2	1036.2	1035.4	1034.7	1033.9	1033.1	1031.7	1029.8	1027.8	1025.8	1023.8
135°	1097.9	1097.2	1096.1	1095.2	1094.2	1093.2	1092.0	1090.5	1089.0	1087.5	1086.1
137.5°	1151.2	1150.0	1149.5	1149.0	1148.4	1147.9	1146.7	1144.8	1143.0	1141.1	1139.2
140°	1185.6	1184.6	1183.9	1183.1	1182.4	1181.6	1180.5	1179.1	1177.6	1176.1	1174.7
142.5°	1218.1	1217.4	1216.6	1215.9	1215.1	1214.4	1213.3	1211.9	1210.4	1208.8	1207.4
145°	1263.7	1263.2	1262.7	1262.2	1261.7	1261.2	1260.2	1258.4	1256.7	1255.0	1253.3
147.5°	1304.2	1303.7	1303.2	1302.7	1302.3	1301.7	1301.0	1299.8	1298.6	1297.5	1296.4
150°	1329.0	1328.5	1328.0	1327.5	1327.1	1326.5	1325.9	1325.2	1324.5	1323.7	1323.0
152.5°	1350.7	1349.8	1349.4	1349.2	1348.9	1348.6	1348.2	1347.9	1347.6	1347.2	1346.9
155°	1380.7	1379.4	1379.2	1379.0	1378.7	1378.5	1378.5	1379.1	1379.6	1380.1	1380.5
157.5°	1406.8	1405.3	1405.6	1405.8	1406.1	1406.4	1406.4	1406.5	1406.6	1406.6	1406.7
160°	1421.9	1420.4	1420.6	1420.9	1421.2	1421.4	1421.6	1421.9	1422.1	1422.4	1422.6
162.5°	1435.4	1433.7	1433.9	1434.2	1434.4	1434.7	1435.1	1435.7	1436.4	1437.0	1437.7
165°	1453.4	1451.4	1451.6	1451.9	1452.2	1452.4	1452.9	1453.6	1454.3	1455.1	1455.9
167.5°	1467.6	1465.6	1465.6	1465.6	1465.6	1465.6	1466.0	1467.1	1468.0	1469.0	1470.0
170°	1475.5	1473.5	1473.5	1473.5	1473.5	1473.5	1474.0	1475.1	1476.0	1477.0	1478.0
172.5°	1480.8	1478.9	1478.7	1478.5	1478.3	1478.1	1478.6	1479.7	1480.9	1482.1	1483.3
175°	1487.5	1485.7	1485.5	1485.2	1485.0	1484.7	1485.2	1486.4	1487.7	1488.9	1490.1
177.5°	1490.0	1488.4	1488.2	1488.0	1487.8	1487.6	1488.0	1489.0	1490.0	1490.9	1491.9
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1405.3	1408.0	1417.2	1423.7	1431.3	1435.6	1439.9	1443.2	1447.5	1448.6	1464.3
5°	1411.5	1425.1	1448.8	1466.4	1488.0	1511.7	1527.9	1535.4	1555.0	1571.2	1603.7
7.5°	1409.8	1438.6	1474.4	1511.4	1551.2	1588.0	1620.0	1657.9	1684.8	1725.3	1765.2
10°	1408.2	1446.7	1492.7	1540.2	1595.6	1647.0	1693.1	1744.5	1787.1	1843.2	1891.3
12.5°	1403.3	1450.0	1513.9	1569.9	1637.3	1708.2	1776.4	1842.5	1880.3	1973.8	2018.0
15°	1391.3	1446.7	1526.6	1611.9	1704.5	1788.5	1875.1	1944.1	2055.7	2137.6	2189.7
17.5°	1368.2	1446.0	1540.7	1643.5	1756.3	1866.8	1965.0	2069.7	2188.1	2287.2	2392.7
20°	1357.5	1442.7	1548.3	1661.9	1779.0	1904.2	2015.9	2141.7	2271.0	2368.4	2503.7
22.5°	1337.4	1434.0	1547.7	1674.4	1799.6	1929.1	2059.7	2186.6	2335.9	2470.1	2599.0
25°	1304.7	1412.9	1530.7	1672.1	1818.9	1948.9	2105.1	2273.6	2429.3	2601.9	2730.4
27.5°	1270.2	1385.9	1503.8	1635.4	1793.3	1947.5	2144.1	2334.5	2524.8	2673.8	2769.0
30°	1243.7	1356.1	1477.9	1610.5	1766.8	1950.2	2170.1	2377.8	2563.3	2691.1	2744.6
32.5°	1215.0	1329.0	1436.8	1575.9	1742.4	1948.5	2186.3	2403.3	2565.4	2650.6	2640.2
35°	1170.0	1265.4	1370.3	1504.3	1700.5	1936.6	2195.8	2405.5	2505.1	2486.8	2348.7
37.5°	1105.0	1185.3	1288.6	1435.2	1651.7	1911.6	2176.9	2334.3	2327.8	2179.0	1979.0
40°	1064.5	1132.7	1232.3	1386.6	1613.9	1895.4	2147.1	2249.3	2162.7	1954.9	1715.4
42.5°	1011.3	1074.3	1173.8	1332.4	1572.2	1862.3	2090.2	2119.9	1950.4	1711.3	1491.8
45°	929.1	984.6	1087.4	1251.2	1509.7	1790.4	1951.5	1879.1	1651.1	1404.1	1237.0
47.5°	840.7	898.4	997.3	1165.5	1419.3	1682.4	1759.1	1605.1	1371.0	1170.6	1017.2
50°	785.0	840.4	937.2	1107.1	1358.1	1593.5	1625.4	1426.4	1211.3	1035.4	909.5
52.5°	728.7	780.9	876.1	1046.4	1286.7	1490.7	1471.1	1268.3	1070.5	920.6	821.7
55°	644.9	694.3	785.0	944.6	1163.2	1324.9	1253.9	1060.3	896.6	780.2	705.1
57.5°	569.9	617.3	695.5	839.7	1029.8	1140.9	1050.5	887.4	757.2	667.6	611.6
60°	519.0	560.9	635.4	769.4	934.5	1019.1	929.8	785.7	676.0	604.2	554.2
62.5°	470.8	507.4	576.4	697.9	841.4	912.4	822.0	700.1	606.7	543.1	500.6
65°	397.9	431.0	492.0	586.7	704.4	751.8	674.0	575.1	502.7	455.4	427.0
67.5°	331.3	359.5	412.1	486.6	573.3	607.8	548.5	472.1	417.5	379.4	356.9
70°	286.9	311.3	352.6	416.8	495.3	521.7	466.2	403.3	363.3	332.9	311.9
72.5°	249.5	267.4	304.9	354.6	420.1	441.1	402.3	347.0	309.8	286.9	270.3
75°	190.1	205.0	229.4	269.3	314.7	326.8	297.7	263.2	238.2	222.0	209.1
77.5°	137.1	148.1	165.7	190.3	221.7	232.6	214.2	191.2	173.0	162.0	154.8
80°	103.5	112.4	127.3	147.5	166.4	172.5	161.7	144.1	131.3	125.2	119.1
82.5°	76.5	81.5	90.4	104.2	117.2	124.4	115.2	104.6	97.7	92.1	89.9
85°	38.6	41.2	45.4	50.7	58.9	61.6	58.2	55.4	51.4	48.0	48.0
87.5°	14.8	15.2	17.4	18.9	21.7	23.9	24.0	23.6	23.7	23.3	23.0
90°	3.5	6.0	8.5	10.9	13.8	17.0	20.1	23.3	26.6	27.6	28.5
92.5°	19.9	19.2	18.5	17.8	18.7	21.1	23.5	25.9	28.3	29.9	31.5
95°	57.4	47.4	37.3	27.2	23.5	26.2	28.9	31.6	34.4	36.1	37.8
97.5°	131.2	126.7	122.2	117.6	106.5	88.8	71.1	53.4	35.6	37.6	39.6
100°	192.0	196.9	201.8	206.8	190.0	151.7	113.3	74.9	36.5	38.5	40.5
102.5°	249.1	252.6	256.1	259.8	240.6	198.6	156.7	114.8	72.8	66.7	60.6
105°	332.6	335.4	338.0	340.7	331.1	308.8	286.7	264.6	242.5	198.9	155.3
107.5°	421.1	423.3	425.4	427.6	430.4	433.9	437.4	440.9	444.4	412.4	380.6
110°	480.3	482.2	484.1	486.1	488.4	491.2	493.9	496.6	499.3	491.2	483.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	536.7	538.5	540.3	542.0	544.2	547.0	549.7	552.4	555.1	555.3	555.4
115°	620.4	621.8	623.3	624.7	626.6	628.8	631.0	633.3	635.5	637.9	640.4
117.5°	702.0	703.8	705.6	707.4	708.9	710.0	711.2	712.3	713.4	715.4	717.4
120°	752.9	755.0	757.2	759.5	761.0	761.6	762.4	763.2	763.9	765.9	767.8
122.5°	803.8	805.6	807.4	809.3	810.6	811.6	812.5	813.5	814.4	815.8	817.2
125°	874.3	876.3	878.3	880.3	881.8	882.7	883.7	884.7	885.7	886.1	886.7
127.5°	942.5	944.5	946.5	948.5	950.0	951.2	952.4	953.6	954.8	955.5	956.3
130°	985.1	987.1	989.0	991.0	992.5	993.4	994.5	995.4	996.3	997.4	998.3
132.5°	1025.8	1027.8	1029.8	1031.7	1033.1	1033.9	1034.7	1035.4	1036.2	1037.2	1038.2
135°	1087.5	1089.0	1090.5	1092.0	1093.2	1094.2	1095.2	1096.1	1097.2	1097.9	1098.6
137.5°	1141.1	1143.0	1144.8	1146.7	1147.9	1148.4	1149.0	1149.5	1150.0	1151.2	1152.4
140°	1176.1	1177.6	1179.1	1180.5	1181.6	1182.4	1183.1	1183.9	1184.6	1185.6	1186.5
142.5°	1208.8	1210.4	1211.9	1213.3	1214.4	1215.1	1215.9	1216.6	1217.4	1218.1	1218.9
145°	1255.0	1256.7	1258.4	1260.2	1261.2	1261.7	1262.2	1262.7	1263.2	1263.7	1264.2
147.5°	1297.5	1298.6	1299.8	1301.0	1301.7	1302.3	1302.7	1303.2	1303.7	1304.2	1304.7
150°	1323.7	1324.5	1325.2	1325.9	1326.5	1327.1	1327.5	1328.0	1328.5	1329.0	1329.5
152.5°	1347.2	1347.6	1347.9	1348.2	1348.6	1348.9	1349.2	1349.4	1349.8	1350.7	1351.5
155°	1380.1	1379.6	1379.1	1378.5	1378.5	1378.7	1379.0	1379.2	1379.4	1380.7	1381.9
157.5°	1406.6	1406.6	1406.5	1406.4	1406.4	1406.1	1405.8	1405.6	1405.3	1406.8	1408.3
160°	1422.4	1422.1	1421.9	1421.6	1421.4	1421.2	1420.9	1420.6	1420.4	1421.9	1423.3
162.5°	1437.0	1436.4	1435.7	1435.1	1434.7	1434.4	1434.2	1433.9	1433.7	1435.4	1437.0
165°	1455.1	1454.3	1453.6	1452.9	1452.4	1452.2	1451.9	1451.6	1451.4	1453.4	1455.3
167.5°	1469.0	1468.0	1467.1	1466.0	1465.6	1465.6	1465.6	1465.6	1465.6	1467.6	1469.6
170°	1477.0	1476.0	1475.1	1474.0	1473.5	1473.5	1473.5	1473.5	1473.5	1475.5	1477.5
172.5°	1482.1	1480.9	1479.7	1478.6	1478.1	1478.3	1478.5	1478.7	1478.9	1480.8	1482.8
175°	1488.9	1487.7	1486.4	1485.2	1484.7	1485.0	1485.2	1485.5	1485.7	1487.5	1489.2
177.5°	1490.9	1490.0	1489.0	1488.0	1487.6	1487.8	1488.0	1488.2	1488.4	1490.0	1491.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1469.7	1470.2	1476.3	1480.6	1478.4	1481.1	1482.2
5°	1605.8	1630.1	1643.0	1652.4	1653.1	1653.8	1659.2
7.5°	1798.6	1824.7	1843.8	1872.8	1881.5	1891.3	1888.4
10°	1939.4	1977.9	2011.1	2028.7	2047.6	2075.4	2053.1
12.5°	2070.9	2139.2	2189.7	2217.1	2234.9	2240.5	2229.6
15°	2287.8	2377.1	2425.2	2423.9	2484.8	2511.2	2469.9
17.5°	2486.8	2569.2	2635.3	2669.1	2719.8	2731.1	2725.9
20°	2608.6	2698.6	2750.0	2808.2	2834.6	2858.3	2862.3
22.5°	2713.6	2794.4	2849.7	2898.0	2920.2	2931.4	2938.2
25°	2821.8	2885.4	2918.5	2935.4	2941.5	2940.1	2931.4
27.5°	2814.3	2819.2	2782.7	2746.8	2714.7	2678.6	2666.1
30°	2741.3	2684.3	2582.9	2525.4	2440.8	2373.8	2400.8
32.5°	2549.1	2435.9	2321.9	2196.2	2092.1	2062.5	2032.7
35°	2175.5	1976.6	1860.2	1724.8	1670.7	1616.6	1579.3
37.5°	1760.1	1606.2	1468.1	1379.6	1325.3	1291.1	1272.7
40°	1521.8	1383.1	1269.5	1197.7	1156.4	1117.8	1112.5
42.5°	1331.9	1202.9	1117.3	1060.2	1020.5	1004.2	992.3
45°	1090.8	1000.8	943.3	902.7	876.3	866.2	852.6
47.5°	923.3	859.6	816.5	788.8	769.0	761.4	760.3
50°	829.6	776.8	745.0	723.3	707.8	705.1	694.3
52.5°	759.2	713.5	688.7	669.8	658.6	651.0	647.7
55°	659.1	628.6	606.3	595.5	586.7	579.2	579.2
57.5°	576.7	551.2	536.5	527.3	524.5	519.3	515.9
60°	525.8	504.1	492.7	484.5	479.1	479.7	473.6
62.5°	476.0	461.9	450.9	442.8	436.4	436.4	436.9
65°	405.4	394.5	386.4	383.7	379.6	374.9	376.3
67.5°	343.5	333.3	327.0	322.4	321.0	318.5	322.4
70°	299.1	291.6	286.9	282.8	281.5	282.1	285.6
72.5°	258.5	253.2	250.1	248.2	245.2	245.4	247.6
75°	203.0	199.0	196.2	194.2	193.6	193.6	193.6
77.5°	149.1	148.2	147.0	144.0	144.1	144.9	145.1
80°	117.8	115.7	115.0	113.7	111.7	110.3	113.7
82.5°	88.0	85.9	85.2	85.0	81.9	81.6	84.5
85°	47.4	45.4	46.0	45.4	45.4	44.7	44.7
87.5°	22.6	22.3	22.0	22.6	22.1	21.7	22.9
90°	29.5	30.5	31.3	31.8	32.2	32.7	33.2
92.5°	33.1	34.6	35.6	35.9	36.2	36.4	36.8
95°	39.5	41.2	42.1	42.1	42.1	42.1	42.1
97.5°	41.6	43.5	44.6	44.9	45.1	45.4	45.6
100°	42.4	44.4	45.5	45.7	46.0	46.2	46.5
102.5°	54.5	48.5	45.6	46.1	46.5	46.9	47.4
105°	111.8	68.3	46.8	47.3	47.7	48.2	48.7
107.5°	348.6	316.7	284.3	251.5	218.6	185.8	153.0
110°	474.9	466.8	445.1	410.0	374.8	339.7	304.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	555.5	555.7	552.1	544.6	537.2	529.8	522.4
115°	642.8	645.3	647.0	648.0	649.0	650.0	651.0
117.5°	719.3	721.3	722.4	722.6	722.7	723.0	723.2
120°	769.8	771.8	772.7	772.7	772.7	772.7	772.7
122.5°	818.6	819.9	820.7	820.9	821.0	821.3	821.5
125°	887.2	887.6	888.1	888.6	889.2	889.6	890.1
127.5°	957.1	957.9	958.0	957.6	957.1	956.6	956.1
130°	999.4	1000.3	1000.6	1000.1	999.6	999.1	998.6
132.5°	1039.2	1040.2	1040.3	1039.7	1039.0	1038.3	1037.6
135°	1099.3	1100.1	1100.1	1099.3	1098.6	1097.9	1097.2
137.5°	1153.6	1154.8	1155.1	1154.6	1154.2	1153.7	1153.1
140°	1187.6	1188.5	1188.8	1188.3	1187.7	1187.3	1186.8
142.5°	1219.7	1220.6	1220.6	1219.9	1219.2	1218.5	1217.8
145°	1264.6	1265.2	1265.4	1265.4	1265.4	1265.4	1265.4
147.5°	1305.2	1305.7	1305.4	1304.2	1303.1	1302.0	1300.8
150°	1330.0	1330.5	1330.3	1329.6	1328.9	1328.2	1327.4
152.5°	1352.5	1353.3	1353.2	1352.0	1350.9	1349.8	1348.7
155°	1383.1	1384.4	1384.2	1382.8	1381.3	1379.8	1378.4
157.5°	1409.8	1411.3	1411.0	1409.1	1407.2	1405.2	1403.3
160°	1424.9	1426.3	1426.2	1424.4	1422.7	1421.0	1419.3
162.5°	1438.7	1440.4	1440.5	1438.9	1437.4	1435.9	1434.3
165°	1457.3	1459.3	1459.4	1457.7	1456.0	1454.2	1452.5
167.5°	1471.4	1473.4	1473.4	1471.4	1469.6	1467.6	1465.6
170°	1479.5	1481.4	1481.4	1479.5	1477.5	1475.5	1473.5
172.5°	1484.8	1486.8	1486.6	1484.5	1482.3	1480.1	1478.0
175°	1490.9	1492.6	1492.5	1490.6	1488.6	1486.6	1484.6
177.5°	1493.1	1494.7	1494.5	1492.5	1490.6	1488.6	1486.6
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1

(END OF REPORT)