

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: P332222-935

Luminaire Tested: **S123DIW-S1165D1030U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332222-935
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-S1165D1030U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7768.4 lumens
Efficiency: N/A
Efficacy: 115.3 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

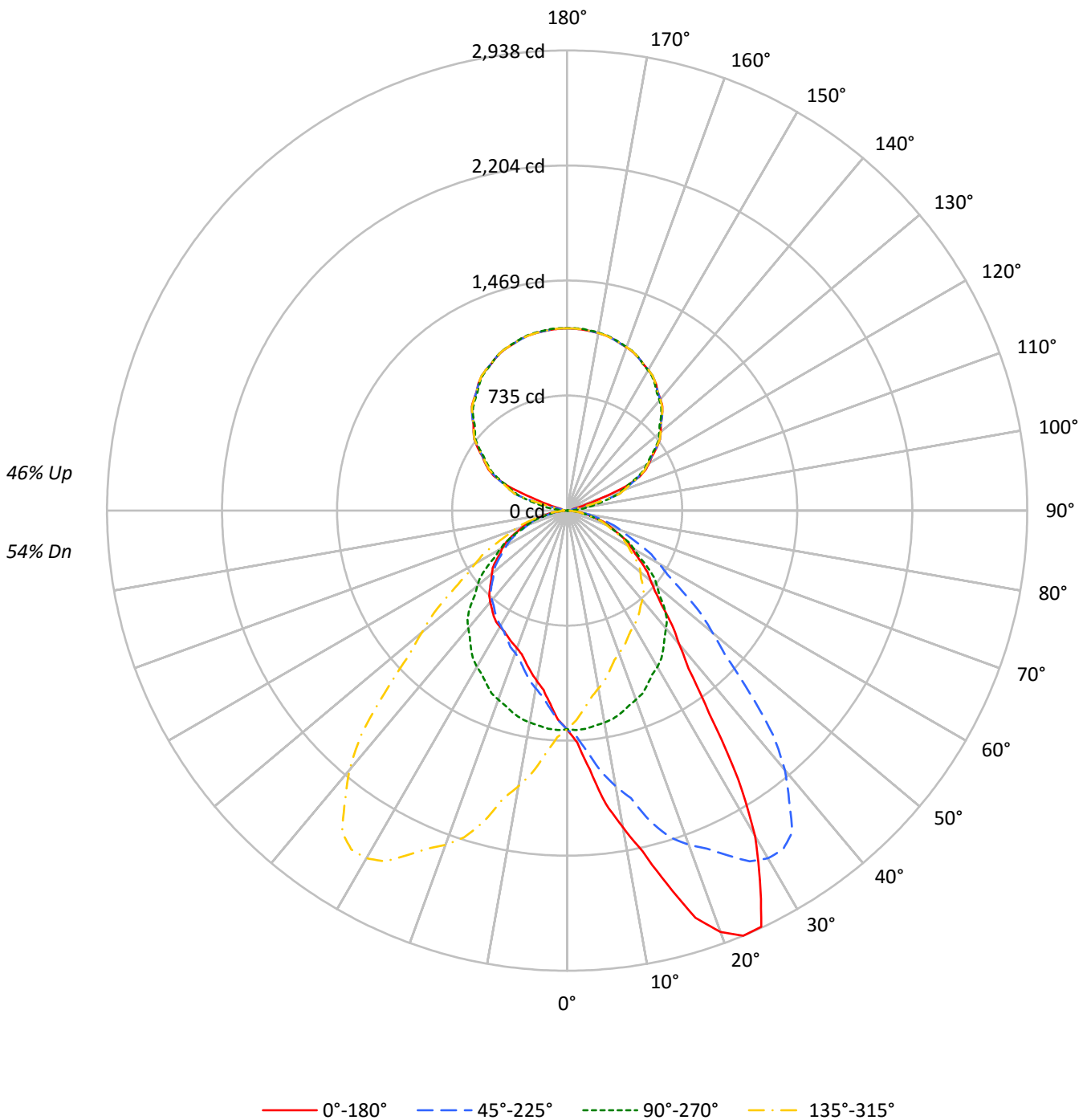
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	14

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	1.8
10°-20°	441.2	5.7
20°-30°	740.4	9.5
30°-40°	838.4	10.8
40°-50°	751.8	9.7
50°-60°	606.7	7.8
60°-70°	422.8	5.4
70°-80°	222.2	2.9
80°-90°	57.6	0.7
90°-100°	42.3	0.5
100°-110°	201.7	2.6
110°-120°	484.5	6.2
120°-130°	616.9	7.9
130°-140°	659.2	8.5
140°-150°	616.4	7.9
150°-160°	497.2	6.4
160°-170°	320.9	4.1
170°-180°	110.6	1.4
0°-30°	1319.2	17.0
0°-40°	2157.5	27.8
0°-60°	3516.1	45.3
0°-90°	4218.7	54.3
90°-120°	728.5	9.4
90°-150°	2621.0	33.7
90°-180°	3550.0	45.7
0°-180°	7768.4	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	53
90°	26	1	26	1	26	14
95°	33	53	33	53	33	27
105°	38	258	38	258	38	87
115°	508	484	508	484	508	470
125°	695	682	695	682	695	621
135°	857	848	857	848	857	661
145°	988	979	988	979	988	617
155°	1077	1078	1077	1078	1077	496
165°	1135	1137	1135	1137	1135	320
175°	1160	1164	1160	1164	1160	110
180°	1164	1164	1164	1164	1164	



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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°	21.4	20.2	20.8	21.2	20.6	21.0	21.4	21.8	22.1	22.6	22.6
90°	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3	21.5	20.8	18.3
92.5°	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6	23.3	22.1	20.2
95°	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5	28.2	26.8	24.7
97.5°	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9	29.4	27.8	41.7
100°	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6	30.0	28.5	58.5
102.5°	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4	52.2	56.9	89.6
105°	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4	155.4	189.4	206.7
107.5°	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2	322.2	347.2	344.4
110°	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4	383.7	390.0	387.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9	433.7	433.6	431.5
115°	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2	498.3	496.4	494.6
117.5°	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3	558.8	557.2	556.4
120°	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8	598.2	596.7	596.2
122.5°	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3	637.2	636.1	635.4
125°	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6	692.2	691.8	691.0
127.5°	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0	746.4	745.8	744.9
130°	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9	779.1	778.3	777.6
132.5°	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0	810.2	809.4	808.8
135°	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2	857.6	857.0	856.3
137.5°	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2	899.2	898.4	897.9
140°	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9	926.1	925.3	924.7
142.5°	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2	951.6	950.9	950.4
145°	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5	987.1	986.7	986.4
147.5°	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2	1018.7	1018.4	1018.0
150°	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5	1038.1	1037.8	1037.3
152.5°	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8	1055.1	1054.4	1054.1
155°	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4	1078.5	1077.5	1077.4
157.5°	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1	1098.9	1097.8	1097.9
160°	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8	1110.7	1109.6	1109.7
162.5°	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5	1121.2	1119.9	1120.1
165°	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8	1135.3	1133.8	1133.9
167.5°	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8	1144.8
170°	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1	1151.1
172.5°	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3	1156.8	1155.2	1155.0
175°	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2	1161.9	1160.5	1160.4
177.5°	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1	1163.9	1162.6	1162.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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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°	23.2	23.2	21.1	18.5	17.0	15.0	14.6	13.2	12.5	12.8	12.7
90°	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9	2.8	4.7	6.6
92.5°	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1	15.6	15.0	14.5
95°	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8	44.9	37.0	29.1
97.5°	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0	102.5	98.9	95.4
100°	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1	150.0	153.9	157.6
102.5°	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8	194.6	197.3	200.1
105°	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7	259.8	261.9	264.1
107.5°	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3	328.9	330.6	332.3
110°	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6	375.1	376.7	378.2



TEST NUMBER: P332222-935

CATALOG NUMBER: S123DIW-S1165D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8	419.2	420.6	422.1
115°	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5	484.6	485.7	486.9
117.5°	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9	548.3	549.7	551.1
120°	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3	588.1	589.8	591.5
122.5°	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5	627.8	629.3	630.7
125°	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5	683.0	684.5	686.0
127.5°	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7	736.2	737.8	739.3
130°	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9	769.5	771.0	772.6
132.5°	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8	801.3	802.8	804.3
135°	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3	849.5	850.7	851.8
137.5°	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8	891.3	892.8	894.2
140°	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6	918.7	919.9	921.0
142.5°	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1	944.3	945.5	946.6
145°	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0	980.2	981.6	983.0
147.5°	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7	1013.6	1014.4	1015.3
150°	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5	1034.0	1034.6	1035.2
152.5°	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1	1052.4	1052.7	1052.9
155°	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4	1078.0	1077.6	1077.3
157.5°	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8	1098.8	1098.7	1098.7
160°	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3	1111.0	1110.9	1110.7
162.5°	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0	1122.5	1122.1	1121.5
165°	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2	1136.6	1136.1	1135.5
167.5°	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2	1147.5	1146.8	1146.0
170°	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5	1153.7	1153.0	1152.2
172.5°	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6	1157.7	1156.8	1155.9
175°	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0	1163.0	1162.1	1161.1
177.5°	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4	1164.6	1163.9	1163.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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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°	12.6	13.5	13.5	14.6	14.5	15.5	15.7	14.7	14.9	16.7	14.6
90°	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3	23.1	23.8	24.4
92.5°	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6	25.8	27.0	27.8
95°	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5	30.8	32.2	32.9
97.5°	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9	32.5	34.0	34.9
100°	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6	33.1	34.7	35.6
102.5°	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4	42.6	37.8	35.6
105°	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4	87.3	53.3	36.5
107.5°	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2	272.3	247.4	222.1
110°	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4	371.0	364.6	347.8



TEST NUMBER: P332222-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9	433.9	434.0	431.2
115°	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2	502.1	504.1	505.4
117.5°	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3	561.9	563.4	564.3
120°	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8	601.3	602.9	603.6
122.5°	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3	639.4	640.4	641.1
125°	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6	693.0	693.4	693.8
127.5°	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0	747.6	748.3	748.4
130°	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9	780.6	781.4	781.6
132.5°	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0	811.8	812.5	812.6
135°	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2	858.8	859.3	859.3
137.5°	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2	901.1	902.1	902.3
140°	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9	927.6	928.4	928.6
142.5°	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2	952.8	953.4	953.4
145°	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5	987.9	988.3	988.4
147.5°	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2	1019.5	1019.9	1019.7
150°	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5	1038.9	1039.3	1039.2
152.5°	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8	1056.4	1057.1	1057.0
155°	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4	1080.4	1081.4	1081.2
157.5°	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1	1101.2	1102.3	1102.2
160°	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8	1113.0	1114.1	1114.0
162.5°	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5	1123.9	1125.2	1125.2
165°	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8	1138.3	1139.9	1140.0
167.5°	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0
170°	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2
172.5°	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3	1159.8	1161.3	1161.2
175°	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2	1164.6	1166.0	1165.9
177.5°	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1	1166.3	1167.5	1167.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332222-935

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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°	14.7	14.8	14.3	13.9	14.3	14.8	14.7	14.6	16.7	14.9	14.7
90°	24.8	25.1	25.6	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3
92.5°	28.0	28.2	28.5	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6
95°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5
97.5°	35.0	35.2	35.5	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9
100°	35.7	35.9	36.2	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6
102.5°	36.0	36.3	36.7	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4
105°	36.9	37.3	37.6	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4
107.5°	196.4	170.8	145.2	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2
110°	320.3	292.7	265.3	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4



TEST NUMBER: P332222-935

CATALOG NUMBER: S123DIW-S1165D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.4	419.7	413.8	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9
115°	506.2	507.0	507.7	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2
117.5°	564.4	564.6	564.7	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3
120°	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8
122.5°	641.2	641.4	641.5	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3
125°	694.1	694.5	694.9	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6
127.5°	748.0	747.6	747.3	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0
130°	781.2	780.8	780.4	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9
132.5°	812.1	811.6	811.1	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0
135°	858.8	858.2	857.6	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2
137.5°	901.9	901.6	901.1	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2
140°	928.2	927.8	927.5	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9
142.5°	952.9	952.4	951.8	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2
145°	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5
147.5°	1018.8	1017.9	1017.0	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2
150°	1038.6	1038.0	1037.5	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5
152.5°	1056.1	1055.2	1054.4	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8
155°	1080.1	1079.0	1077.8	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4
157.5°	1100.7	1099.2	1097.7	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1
160°	1112.7	1111.4	1110.0	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8
162.5°	1124.0	1122.8	1121.6	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5
165°	1138.7	1137.3	1135.9	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8
167.5°	1149.4	1147.9	1146.3	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9
170°	1155.6	1154.1	1152.5	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1
172.5°	1159.6	1157.9	1156.2	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3
175°	1164.3	1162.8	1161.2	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2
177.5°	1165.9	1164.3	1162.8	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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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°	15.7	15.5	14.5	14.6	13.5	13.5	12.6	12.7	12.8	12.5	13.2
90°	21.5	20.8	18.3	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9
92.5°	23.3	22.1	20.2	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1
95°	28.2	26.8	24.7	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8
97.5°	29.4	27.8	41.7	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0
100°	30.0	28.5	58.5	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1
102.5°	52.2	56.9	89.6	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8
105°	155.4	189.4	206.7	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7
107.5°	322.2	347.2	344.4	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3
110°	383.7	390.0	387.9	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	433.7	433.6	431.5	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8
115°	498.3	496.4	494.6	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5
117.5°	558.8	557.2	556.4	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9
120°	598.2	596.7	596.2	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3
122.5°	637.2	636.1	635.4	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5
125°	692.2	691.8	691.0	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5
127.5°	746.4	745.8	744.9	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7
130°	779.1	778.3	777.6	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9
132.5°	810.2	809.4	808.8	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8
135°	857.6	857.0	856.3	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3
137.5°	899.2	898.4	897.9	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8
140°	926.1	925.3	924.7	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6
142.5°	951.6	950.9	950.4	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1
145°	987.1	986.7	986.4	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0
147.5°	1018.7	1018.4	1018.0	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7
150°	1038.1	1037.8	1037.3	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5
152.5°	1055.1	1054.4	1054.1	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1
155°	1078.5	1077.5	1077.4	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4
157.5°	1098.9	1097.8	1097.9	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8
160°	1110.7	1109.6	1109.7	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3
162.5°	1121.2	1119.9	1120.1	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0
165°	1135.3	1133.8	1133.9	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2
167.5°	1146.3	1144.8	1144.8	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2
170°	1152.5	1151.1	1151.1	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5
172.5°	1156.8	1155.2	1155.0	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6
175°	1161.9	1160.5	1160.4	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0
177.5°	1163.9	1162.6	1162.4	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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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°	14.6	15.0	17.0	18.5	21.1	23.2	23.2	22.6	22.6	22.1	21.8
90°	2.8	4.7	6.6	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3
92.5°	15.6	15.0	14.5	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6
95°	44.9	37.0	29.1	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5
97.5°	102.5	98.9	95.4	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9
100°	150.0	153.9	157.6	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6
102.5°	194.6	197.3	200.1	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4
105°	259.8	261.9	264.1	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4
107.5°	328.9	330.6	332.3	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2
110°	375.1	376.7	378.2	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	419.2	420.6	422.1	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9
115°	484.6	485.7	486.9	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2
117.5°	548.3	549.7	551.1	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3
120°	588.1	589.8	591.5	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8
122.5°	627.8	629.3	630.7	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3
125°	683.0	684.5	686.0	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6
127.5°	736.2	737.8	739.3	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0
130°	769.5	771.0	772.6	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9
132.5°	801.3	802.8	804.3	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0
135°	849.5	850.7	851.8	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2
137.5°	891.3	892.8	894.2	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2
140°	918.7	919.9	921.0	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9
142.5°	944.3	945.5	946.6	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2
145°	980.2	981.6	983.0	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5
147.5°	1013.6	1014.4	1015.3	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2
150°	1034.0	1034.6	1035.2	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5
152.5°	1052.4	1052.7	1052.9	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8
155°	1078.0	1077.6	1077.3	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4
157.5°	1098.8	1098.7	1098.7	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1
160°	1111.0	1110.9	1110.7	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8
162.5°	1122.5	1122.1	1121.5	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5
165°	1136.6	1136.1	1135.5	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8
167.5°	1147.5	1146.8	1146.0	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9
170°	1153.7	1153.0	1152.2	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1
172.5°	1157.7	1156.8	1155.9	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3
175°	1163.0	1162.1	1161.1	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2
177.5°	1164.6	1163.9	1163.1	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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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°	21.4	21.0	20.6	21.2	20.8	20.2	21.4
90°	23.1	23.8	24.4	24.8	25.1	25.6	25.9
92.5°	25.8	27.0	27.8	28.0	28.2	28.5	28.7
95°	30.8	32.2	32.9	32.9	32.9	32.9	32.9
97.5°	32.5	34.0	34.9	35.0	35.2	35.5	35.6
100°	33.1	34.7	35.6	35.7	35.9	36.2	36.3
102.5°	42.6	37.8	35.6	36.0	36.3	36.7	37.0
105°	87.3	53.3	36.5	36.9	37.3	37.6	38.1
107.5°	272.3	247.4	222.1	196.4	170.8	145.2	119.5
110°	371.0	364.6	347.8	320.3	292.7	265.3	237.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	434.0	431.2	425.4	419.7	413.8	408.0
115°	502.1	504.1	505.4	506.2	507.0	507.7	508.5
117.5°	561.9	563.4	564.3	564.4	564.6	564.7	564.9
120°	601.3	602.9	603.6	603.6	603.6	603.6	603.6
122.5°	639.4	640.4	641.1	641.2	641.4	641.5	641.7
125°	693.0	693.4	693.8	694.1	694.5	694.9	695.3
127.5°	747.6	748.3	748.4	748.0	747.6	747.3	746.8
130°	780.6	781.4	781.6	781.2	780.8	780.4	780.1
132.5°	811.8	812.5	812.6	812.1	811.6	811.1	810.5
135°	858.8	859.3	859.3	858.8	858.2	857.6	857.0
137.5°	901.1	902.1	902.3	901.9	901.6	901.1	900.8
140°	927.6	928.4	928.6	928.2	927.8	927.5	927.0
142.5°	952.8	953.4	953.4	952.9	952.4	951.8	951.2
145°	987.9	988.3	988.4	988.4	988.4	988.4	988.4
147.5°	1019.5	1019.9	1019.7	1018.8	1017.9	1017.0	1016.2
150°	1038.9	1039.3	1039.2	1038.6	1038.0	1037.5	1036.9
152.5°	1056.4	1057.1	1057.0	1056.1	1055.2	1054.4	1053.5
155°	1080.4	1081.4	1081.2	1080.1	1079.0	1077.8	1076.7
157.5°	1101.2	1102.3	1102.2	1100.7	1099.2	1097.7	1096.2
160°	1113.0	1114.1	1114.0	1112.7	1111.4	1110.0	1108.6
162.5°	1123.9	1125.2	1125.2	1124.0	1122.8	1121.6	1120.4
165°	1138.3	1139.9	1140.0	1138.7	1137.3	1135.9	1134.6
167.5°	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8
170°	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1
172.5°	1159.8	1161.3	1161.2	1159.6	1157.9	1156.2	1154.5
175°	1164.6	1166.0	1165.9	1164.3	1162.8	1161.2	1159.7
177.5°	1166.3	1167.5	1167.4	1165.9	1164.3	1162.8	1161.2
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0

(END OF REPORT)