

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: P332234-935

Luminaire Tested: **S123DIW-S1165D1535U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332234-935
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-S1165D1535U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 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: 9503.7 lumens
Efficiency: N/A
Efficacy: 114.6 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

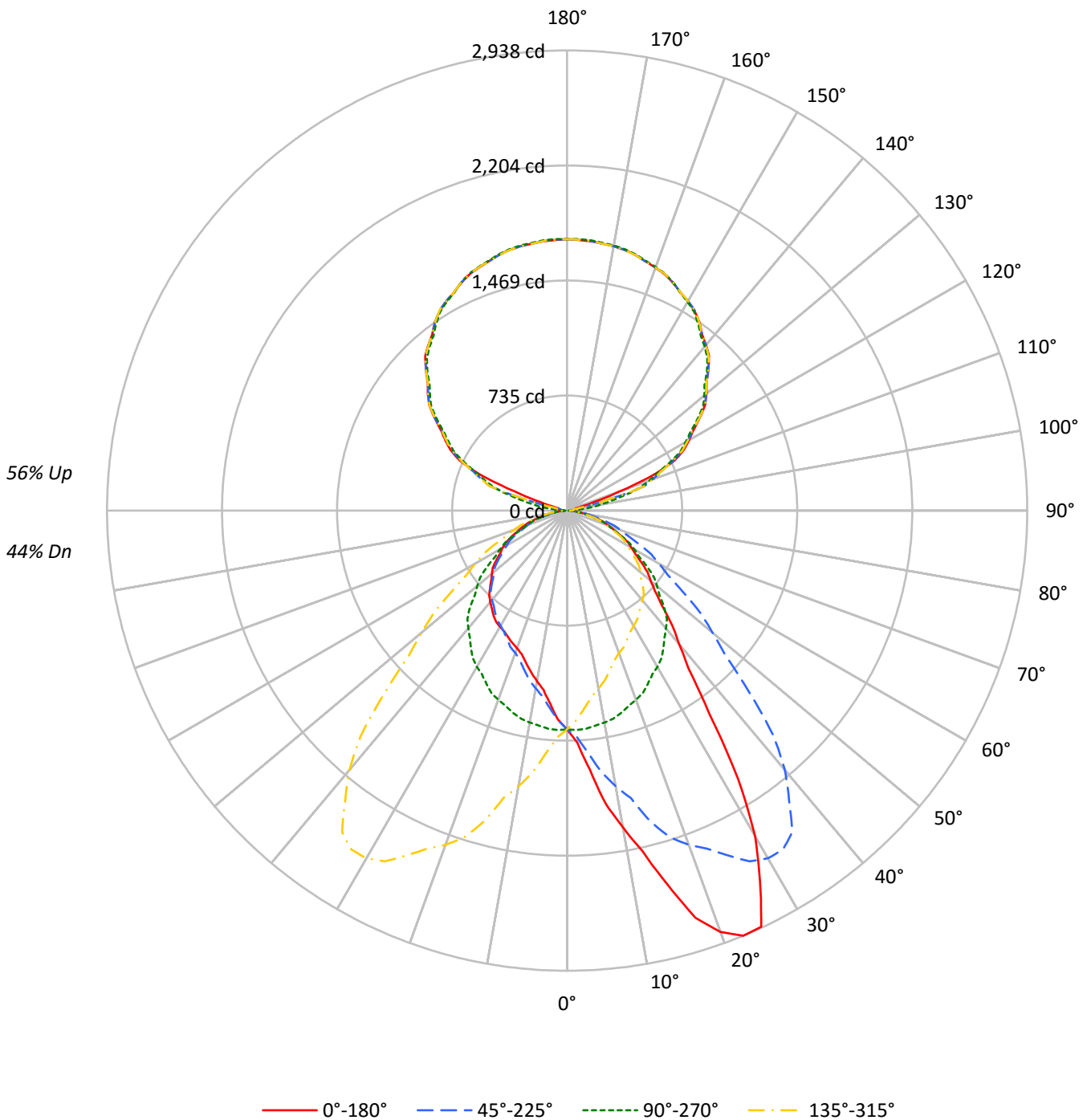
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	85	88	85	82	79	71	68	66	58	56	55	45	44	44	38				
2	88	81	75	70	81	75	69	65	62	58	55	51	48	46	40	39	37	32				
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27				
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24				
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21				
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16				
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14				
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12				

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	1.4
10°-20°	441.2	4.6
20°-30°	740.4	7.8
30°-40°	838.4	8.8
40°-50°	751.8	7.9
50°-60°	606.7	6.4
60°-70°	422.8	4.4
70°-80°	222.2	2.3
80°-90°	59.2	0.6
90°-100°	63.0	0.7
100°-110°	300.2	3.2
110°-120°	721.1	7.6
120°-130°	918.3	9.7
130°-140°	981.1	10.3
140°-150°	917.5	9.7
150°-160°	740.1	7.8
160°-170°	477.6	5.0
170°-180°	164.6	1.7
0°-30°	1319.2	13.9
0°-40°	2157.5	22.7
0°-60°	3516.1	37.0
0°-90°	4220.3	44.4
90°-120°	1084.3	11.4
90°-150°	3901.2	41.0
90°-180°	5283.0	55.6
0°-180°	9503.7	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°	39	1	39	1	39	20
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°	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°	23.9	22.7	23.2	23.6	23.0	23.3	23.7	23.9	24.3	24.6	24.4
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	62.1
100°	54.1	53.8	53.5	53.2	53.0	51.7	49.3	47.0	44.8	42.4	87.1
102.5°	55.1	54.6	54.1	53.6	53.0	56.3	63.5	70.5	77.6	84.7	133.5
105°	56.7	56.1	55.5	54.9	54.3	79.4	130.0	180.6	231.3	281.9	307.6
107.5°	177.9	216.0	254.2	292.4	330.5	368.2	405.3	442.4	479.6	516.7	512.6
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°	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°	24.7	24.5	22.1	19.3	17.7	15.5	14.9	13.3	12.7	13.3	13.3
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: P332234-935

CATALOG NUMBER: S123DIW-S1165D1535U935-4F0-1E-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



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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°	13.3	14.6	14.8	16.1	16.3	17.6	17.7	17.0	17.1	19.0	17.0
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



TEST NUMBER: P332234-935

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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°	17.1	17.2	16.8	16.4	16.8	17.2	17.1	17.0	19.0	17.1	17.0
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°	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°	17.7	17.6	16.3	16.1	14.8	14.6	13.3	13.3	13.3	12.7	13.3
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



TEST NUMBER: P332234-935

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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°	14.9	15.5	17.7	19.3	22.1	24.5	24.7	24.4	24.6	24.3	23.9
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°	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°	23.7	23.3	23.0	23.6	23.2	22.7	23.9
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)