

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332204-840

Luminaire Tested: **S123DIW-S1000D1535U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332204-840
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-S1000D1535U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10483.6 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

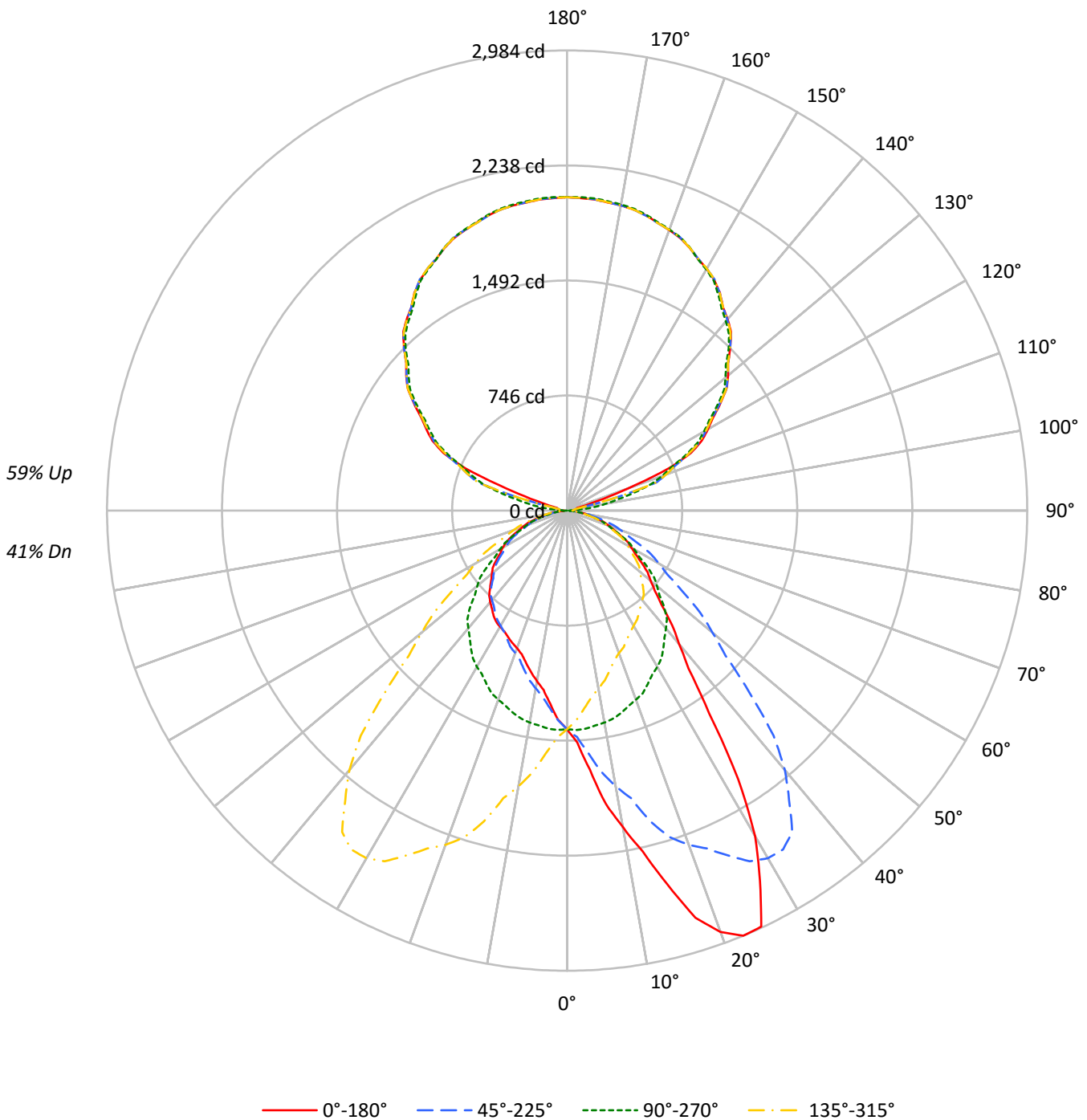
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	34	31	30	25
4	73	63	55	49	66	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.3
10°-20°	448.0	4.3
20°-30°	751.9	7.2
30°-40°	851.4	8.1
40°-50°	763.5	7.3
50°-60°	616.1	5.9
60°-70°	429.4	4.1
70°-80°	225.7	2.2
80°-90°	60.9	0.6
90°-100°	73.9	0.7
100°-110°	352.1	3.4
110°-120°	845.8	8.1
120°-130°	1077.0	10.3
130°-140°	1150.8	11.0
140°-150°	1076.1	10.3
150°-160°	868.0	8.3
160°-170°	560.2	5.3
170°-180°	193.1	1.8
0°-30°	1339.7	12.8
0°-40°	2191.1	20.9
0°-60°	3570.7	34.1
0°-90°	4286.7	40.9
90°-120°	1271.8	12.1
90°-150°	4575.6	43.6
90°-180°	6197.0	59.1
0°-180°	10483.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	55
90°	45	2	45	2	45	23
95°	57	92	57	92	57	48
105°	66	450	66	450	66	152
115°	888	844	888	844	888	820
125°	1214	1190	1214	1190	1214	1084
135°	1496	1481	1496	1481	1496	1154
145°	1726	1709	1726	1709	1726	1077
155°	1880	1883	1880	1883	1880	867
165°	1981	1985	1981	1985	1981	559
175°	2025	2032	2025	2032	2025	193
180°	2032	2032	2032	2032	2032	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	25.5	24.3	24.7	25.1	24.4	24.8	25.0	25.3	25.7	26.0	25.7
90°	45.2	44.6	43.9	43.3	42.6	41.6	40.3	38.9	37.6	36.3	31.9
92.5°	50.1	49.7	49.3	48.9	48.5	47.3	45.1	42.9	40.8	38.7	35.3
95°	57.4	57.4	57.4	57.4	57.4	56.1	53.8	51.5	49.2	46.8	43.1
97.5°	62.2	61.9	61.5	61.2	60.9	59.4	56.7	54.0	51.3	48.6	42.8
100°	63.4	63.1	62.7	62.4	62.1	60.6	57.9	55.1	52.5	49.8	40.2
102.5°	64.6	64.0	63.4	62.8	62.2	66.0	74.4	82.7	91.0	99.4	156.5
105°	66.4	65.7	65.1	64.4	63.7	93.1	152.5	211.9	271.2	330.6	360.8
107.5°	208.6	253.4	298.1	343.0	387.7	431.8	475.3	518.9	562.5	606.0	601.3
110°	415.2	463.1	511.1	559.1	607.0	636.6	647.6	658.7	669.8	680.9	677.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	712.3	722.5	732.6	742.7	752.9	757.8	757.6	757.4	757.2	757.0	753.3
115°	887.8	886.4	885.0	883.7	882.3	880.0	876.7	873.3	869.9	866.6	863.5
117.5°	986.1	985.9	985.6	985.3	985.1	983.6	980.9	978.3	975.5	972.9	971.3
120°	1053.8	1053.8	1053.8	1053.8	1053.8	1052.5	1049.8	1047.1	1044.4	1041.7	1040.7
122.5°	1120.2	1119.9	1119.6	1119.4	1119.1	1118.1	1116.2	1114.3	1112.5	1110.5	1109.2
125°	1213.9	1213.2	1212.4	1211.8	1211.1	1210.4	1209.8	1209.1	1208.5	1207.8	1206.5
127.5°	1303.8	1304.4	1305.1	1305.9	1306.5	1306.3	1305.3	1304.1	1303.0	1302.0	1300.4
130°	1361.8	1362.4	1363.1	1363.8	1364.4	1364.1	1362.8	1361.4	1360.1	1358.8	1357.5
132.5°	1414.9	1415.8	1416.8	1417.7	1418.7	1418.5	1417.1	1415.8	1414.4	1413.1	1412.0
135°	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2	1499.1	1498.1	1497.1	1496.1	1494.8
137.5°	1572.6	1573.2	1573.9	1574.6	1575.2	1574.8	1573.2	1571.6	1569.9	1568.3	1567.6
140°	1618.4	1619.1	1619.8	1620.4	1621.1	1620.7	1619.4	1618.1	1616.8	1615.4	1614.4
142.5°	1660.7	1661.6	1662.5	1663.6	1664.5	1664.4	1663.3	1662.2	1661.1	1660.1	1659.1
145°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.3	1724.6	1723.9	1723.2	1722.6	1721.9
147.5°	1773.9	1775.4	1777.1	1778.6	1780.1	1780.6	1779.9	1779.2	1778.6	1777.9	1777.2
150°	1810.2	1811.2	1812.2	1813.2	1814.2	1814.3	1813.7	1813.0	1812.3	1811.7	1811.0
152.5°	1839.2	1840.7	1842.2	1843.8	1845.3	1845.5	1844.3	1843.1	1841.9	1840.7	1840.3
155°	1879.7	1881.6	1883.6	1885.6	1887.6	1887.8	1886.1	1884.5	1882.8	1881.1	1880.8
157.5°	1913.7	1916.3	1918.9	1921.6	1924.2	1924.5	1922.5	1920.5	1918.4	1916.4	1916.8
160°	1935.5	1937.8	1940.2	1942.5	1944.9	1945.0	1943.0	1941.1	1939.0	1937.0	1937.3
162.5°	1956.0	1958.1	1960.1	1962.3	1964.3	1964.2	1962.0	1959.6	1957.4	1955.1	1955.4
165°	1980.7	1983.1	1985.5	1987.8	1990.1	1990.0	1987.3	1984.6	1982.0	1979.2	1979.6
167.5°	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3	2006.6	2004.0	2001.2	1998.6	1998.6
170°	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2	2017.5	2014.8	2012.2	2009.4	2009.4
172.5°	2015.5	2018.4	2021.4	2024.4	2027.3	2027.4	2024.8	2022.1	2019.4	2016.7	2016.4
175°	2024.6	2027.2	2029.9	2032.6	2035.3	2035.5	2033.1	2030.7	2028.4	2026.1	2025.7
177.5°	2027.3	2029.9	2032.7	2035.3	2038.0	2038.3	2036.1	2034.0	2031.8	2029.7	2029.4
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	25.9	25.5	23.0	20.0	18.3	16.0	15.2	13.5	13.0	13.7	13.8
90°	27.5	23.1	18.8	14.9	11.6	8.2	4.8	1.5	4.8	8.2	11.6
92.5°	32.1	28.8	25.4	24.3	25.2	26.2	27.2	28.1	27.2	26.2	25.2
95°	39.4	35.7	32.0	37.1	50.8	64.6	78.4	92.1	78.4	64.6	50.8
97.5°	96.9	121.1	145.2	160.4	166.5	172.8	178.9	185.1	178.9	172.8	166.5
100°	154.5	206.8	259.1	282.0	275.3	268.5	261.9	255.2	261.9	268.5	275.3
102.5°	213.7	270.8	328.0	354.2	349.3	344.6	339.7	334.9	339.7	344.6	349.3
105°	391.0	421.2	451.4	464.6	461.0	457.3	453.6	449.9	453.6	457.3	461.0
107.5°	596.5	591.7	586.9	583.1	580.2	577.1	574.2	571.3	574.2	577.1	580.2
110°	673.5	669.8	666.1	663.0	660.2	657.5	654.9	652.2	654.9	657.5	660.2



TEST NUMBER: P332204-840

CATALOG NUMBER: S123DIW-S1000D1535U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	749.6	745.9	742.3	739.1	736.8	734.4	732.0	729.5	732.0	734.4	736.8
115°	860.5	857.6	854.5	852.0	850.0	848.0	846.0	843.9	846.0	848.0	850.0
117.5°	969.8	968.3	966.7	964.7	962.2	959.7	957.3	954.7	957.3	959.7	962.2
120°	1039.7	1038.6	1037.7	1035.7	1032.7	1029.7	1026.6	1023.6	1026.6	1029.7	1032.7
122.5°	1108.0	1106.7	1105.5	1103.6	1101.1	1098.6	1096.1	1093.7	1096.1	1098.6	1101.1
125°	1205.1	1203.8	1202.4	1200.4	1197.7	1195.1	1192.3	1189.6	1192.3	1195.1	1197.7
127.5°	1298.8	1297.2	1295.6	1293.4	1290.7	1288.1	1285.4	1282.6	1285.4	1288.1	1290.7
130°	1356.0	1354.7	1353.4	1351.4	1348.7	1346.0	1343.3	1340.6	1343.3	1346.0	1348.7
132.5°	1411.0	1409.9	1408.9	1406.9	1404.2	1401.6	1398.9	1396.2	1398.9	1401.6	1404.2
135°	1493.5	1492.1	1490.8	1489.1	1487.1	1485.1	1483.1	1481.1	1483.1	1485.1	1487.1
137.5°	1566.8	1566.1	1565.4	1563.7	1561.2	1558.6	1556.1	1553.5	1556.1	1558.6	1561.2
140°	1613.4	1612.4	1611.3	1609.9	1607.9	1605.9	1603.9	1601.8	1603.9	1605.9	1607.9
142.5°	1658.1	1657.1	1656.1	1654.6	1652.5	1650.5	1648.5	1646.5	1648.5	1650.5	1652.5
145°	1721.2	1720.6	1719.9	1718.4	1716.1	1713.7	1711.3	1709.0	1711.3	1713.7	1716.1
147.5°	1776.6	1775.8	1775.1	1774.0	1772.5	1771.0	1769.5	1767.9	1769.5	1771.0	1772.5
150°	1810.4	1809.7	1809.0	1808.2	1807.2	1806.1	1805.1	1804.1	1805.1	1806.1	1807.2
152.5°	1839.9	1839.5	1839.1	1838.7	1838.2	1837.7	1837.2	1836.7	1837.2	1837.7	1838.2
155°	1880.5	1880.2	1879.8	1880.0	1880.7	1881.3	1882.0	1882.6	1882.0	1881.3	1880.7
157.5°	1917.1	1917.4	1917.8	1918.0	1918.0	1918.1	1918.2	1918.2	1918.2	1918.1	1918.0
160°	1937.6	1938.0	1938.3	1938.6	1939.0	1939.3	1939.6	1940.1	1939.6	1939.3	1939.0
162.5°	1955.8	1956.1	1956.4	1957.0	1957.9	1958.8	1959.6	1960.6	1959.6	1958.8	1957.9
165°	1979.9	1980.2	1980.6	1981.3	1982.3	1983.3	1984.3	1985.3	1984.3	1983.3	1982.3
167.5°	1998.6	1998.6	1998.6	1999.2	2000.6	2002.0	2003.3	2004.6	2003.3	2002.0	2000.6
170°	2009.4	2009.4	2009.4	2010.1	2011.4	2012.8	2014.2	2015.5	2014.2	2012.8	2011.4
172.5°	2016.2	2015.9	2015.6	2016.3	2017.9	2019.5	2021.1	2022.8	2021.1	2019.5	2017.9
175°	2025.4	2025.1	2024.7	2025.4	2027.1	2028.7	2030.4	2032.1	2030.4	2028.7	2027.1
177.5°	2029.1	2028.9	2028.6	2029.1	2030.5	2031.8	2033.2	2034.5	2033.2	2031.8	2030.5
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	13.9	15.3	15.7	17.1	17.4	18.8	19.1	18.3	18.5	20.4	18.4
90°	14.9	18.8	23.1	27.5	31.9	36.3	37.6	38.9	40.3	41.6	42.6
92.5°	24.3	25.4	28.8	32.1	35.3	38.7	40.8	42.9	45.1	47.3	48.5
95°	37.1	32.0	35.7	39.4	43.1	46.8	49.2	51.5	53.8	56.1	57.4
97.5°	160.4	145.2	121.1	96.9	72.8	48.6	51.3	54.0	56.7	59.4	60.9
100°	282.0	259.1	206.8	154.5	102.2	49.8	52.5	55.1	57.9	60.6	62.1
102.5°	354.2	328.0	270.8	213.7	156.5	99.4	91.0	82.7	74.4	66.0	62.2
105°	464.6	451.4	421.2	391.0	360.8	330.6	271.2	211.9	152.5	93.1	63.7
107.5°	583.1	586.9	591.7	596.5	601.3	606.0	562.5	518.9	475.3	431.8	387.7
110°	663.0	666.1	669.8	673.5	677.2	680.9	669.8	658.7	647.6	636.6	607.0



TEST NUMBER: P332204-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	739.1	742.3	745.9	749.6	753.3	757.0	757.2	757.4	757.6	757.8	752.9
115°	852.0	854.5	857.6	860.5	863.5	866.6	869.9	873.3	876.7	880.0	882.3
117.5°	964.7	966.7	968.3	969.8	971.3	972.9	975.5	978.3	980.9	983.6	985.1
120°	1035.7	1037.7	1038.6	1039.7	1040.7	1041.7	1044.4	1047.1	1049.8	1052.5	1053.8
122.5°	1103.6	1105.5	1106.7	1108.0	1109.2	1110.5	1112.5	1114.3	1116.2	1118.1	1119.1
125°	1200.4	1202.4	1203.8	1205.1	1206.5	1207.8	1208.5	1209.1	1209.8	1210.4	1211.1
127.5°	1293.4	1295.6	1297.2	1298.8	1300.4	1302.0	1303.0	1304.1	1305.3	1306.3	1306.5
130°	1351.4	1353.4	1354.7	1356.0	1357.5	1358.8	1360.1	1361.4	1362.8	1364.1	1364.4
132.5°	1406.9	1408.9	1409.9	1411.0	1412.0	1413.1	1414.4	1415.8	1417.1	1418.5	1418.7
135°	1489.1	1490.8	1492.1	1493.5	1494.8	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2
137.5°	1563.7	1565.4	1566.1	1566.8	1567.6	1568.3	1569.9	1571.6	1573.2	1574.8	1575.2
140°	1609.9	1611.3	1612.4	1613.4	1614.4	1615.4	1616.8	1618.1	1619.4	1620.7	1621.1
142.5°	1654.6	1656.1	1657.1	1658.1	1659.1	1660.1	1661.1	1662.2	1663.3	1664.4	1664.5
145°	1718.4	1719.9	1720.6	1721.2	1721.9	1722.6	1723.2	1723.9	1724.6	1725.3	1725.7
147.5°	1774.0	1775.1	1775.8	1776.6	1777.2	1777.9	1778.6	1779.2	1779.9	1780.6	1780.1
150°	1808.2	1809.0	1809.7	1810.4	1811.0	1811.7	1812.3	1813.0	1813.7	1814.3	1814.2
152.5°	1838.7	1839.1	1839.5	1839.9	1840.3	1840.7	1841.9	1843.1	1844.3	1845.5	1845.3
155°	1880.0	1879.8	1880.2	1880.5	1880.8	1881.1	1882.8	1884.5	1886.1	1887.8	1887.6
157.5°	1918.0	1917.8	1917.4	1917.1	1916.8	1916.4	1918.4	1920.5	1922.5	1924.5	1924.2
160°	1938.6	1938.3	1938.0	1937.6	1937.3	1937.0	1939.0	1941.1	1943.0	1945.0	1944.9
162.5°	1957.0	1956.4	1956.1	1955.8	1955.4	1955.1	1957.4	1959.6	1962.0	1964.2	1964.3
165°	1981.3	1980.6	1980.2	1979.9	1979.6	1979.2	1982.0	1984.6	1987.3	1990.0	1990.1
167.5°	1999.2	1998.6	1998.6	1998.6	1998.6	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3
170°	2010.1	2009.4	2009.4	2009.4	2009.4	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2
172.5°	2016.3	2015.6	2015.9	2016.2	2016.4	2016.7	2019.4	2022.1	2024.8	2027.4	2027.3
175°	2025.4	2024.7	2025.1	2025.4	2025.7	2026.1	2028.4	2030.7	2033.1	2035.5	2035.3
177.5°	2029.1	2028.6	2028.9	2029.1	2029.4	2029.7	2031.8	2034.0	2036.1	2038.3	2038.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



TEST NUMBER: P332204-840

CATALOG NUMBER: S123DIW-S1000D1535U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	18.6	18.7	18.3	17.9	18.3	18.7	18.6	18.4	20.4	18.5	18.3
90°	43.3	43.9	44.6	45.2	44.6	43.9	43.3	42.6	41.6	40.3	38.9
92.5°	48.9	49.3	49.7	50.1	49.7	49.3	48.9	48.5	47.3	45.1	42.9
95°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	56.1	53.8	51.5
97.5°	61.2	61.5	61.9	62.2	61.9	61.5	61.2	60.9	59.4	56.7	54.0
100°	62.4	62.7	63.1	63.4	63.1	62.7	62.4	62.1	60.6	57.9	55.1
102.5°	62.8	63.4	64.0	64.6	64.0	63.4	62.8	62.2	66.0	74.4	82.7
105°	64.4	65.1	65.7	66.4	65.7	65.1	64.4	63.7	93.1	152.5	211.9
107.5°	343.0	298.1	253.4	208.6	253.4	298.1	343.0	387.7	431.8	475.3	518.9
110°	559.1	511.1	463.1	415.2	463.1	511.1	559.1	607.0	636.6	647.6	658.7



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	742.7	732.6	722.5	712.3	722.5	732.6	742.7	752.9	757.8	757.6	757.4
115°	883.7	885.0	886.4	887.8	886.4	885.0	883.7	882.3	880.0	876.7	873.3
117.5°	985.3	985.6	985.9	986.1	985.9	985.6	985.3	985.1	983.6	980.9	978.3
120°	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1052.5	1049.8	1047.1
122.5°	1119.4	1119.6	1119.9	1120.2	1119.9	1119.6	1119.4	1119.1	1118.1	1116.2	1114.3
125°	1211.8	1212.4	1213.2	1213.9	1213.2	1212.4	1211.8	1211.1	1210.4	1209.8	1209.1
127.5°	1305.9	1305.1	1304.4	1303.8	1304.4	1305.1	1305.9	1306.5	1306.3	1305.3	1304.1
130°	1363.8	1363.1	1362.4	1361.8	1362.4	1363.1	1363.8	1364.4	1364.1	1362.8	1361.4
132.5°	1417.7	1416.8	1415.8	1414.9	1415.8	1416.8	1417.7	1418.7	1418.5	1417.1	1415.8
135°	1499.1	1498.1	1497.1	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2	1499.1	1498.1
137.5°	1574.6	1573.9	1573.2	1572.6	1573.2	1573.9	1574.6	1575.2	1574.8	1573.2	1571.6
140°	1620.4	1619.8	1619.1	1618.4	1619.1	1619.8	1620.4	1621.1	1620.7	1619.4	1618.1
142.5°	1663.6	1662.5	1661.6	1660.7	1661.6	1662.5	1663.6	1664.5	1664.4	1663.3	1662.2
145°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.3	1724.6	1723.9
147.5°	1778.6	1777.1	1775.4	1773.9	1775.4	1777.1	1778.6	1780.1	1780.6	1779.9	1779.2
150°	1813.2	1812.2	1811.2	1810.2	1811.2	1812.2	1813.2	1814.2	1814.3	1813.7	1813.0
152.5°	1843.8	1842.2	1840.7	1839.2	1840.7	1842.2	1843.8	1845.3	1845.5	1844.3	1843.1
155°	1885.6	1883.6	1881.6	1879.7	1881.6	1883.6	1885.6	1887.6	1887.8	1886.1	1884.5
157.5°	1921.6	1918.9	1916.3	1913.7	1916.3	1918.9	1921.6	1924.2	1924.5	1922.5	1920.5
160°	1942.5	1940.2	1937.8	1935.5	1937.8	1940.2	1942.5	1944.9	1945.0	1943.0	1941.1
162.5°	1962.3	1960.1	1958.1	1956.0	1958.1	1960.1	1962.3	1964.3	1964.2	1962.0	1959.6
165°	1987.8	1985.5	1983.1	1980.7	1983.1	1985.5	1987.8	1990.1	1990.0	1987.3	1984.6
167.5°	2006.6	2004.0	2001.2	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3	2006.6	2004.0
170°	2017.5	2014.8	2012.2	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2	2017.5	2014.8
172.5°	2024.4	2021.4	2018.4	2015.5	2018.4	2021.4	2024.4	2027.3	2027.4	2024.8	2022.1
175°	2032.6	2029.9	2027.2	2024.6	2027.2	2029.9	2032.6	2035.3	2035.5	2033.1	2030.7
177.5°	2035.3	2032.7	2029.9	2027.3	2029.9	2032.7	2035.3	2038.0	2038.3	2036.1	2034.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	19.1	18.8	17.4	17.1	15.7	15.3	13.9	13.8	13.7	13.0	13.5
90°	37.6	36.3	31.9	27.5	23.1	18.8	14.9	11.6	8.2	4.8	1.5
92.5°	40.8	38.7	35.3	32.1	28.8	25.4	24.3	25.2	26.2	27.2	28.1
95°	49.2	46.8	43.1	39.4	35.7	32.0	37.1	50.8	64.6	78.4	92.1
97.5°	51.3	48.6	72.8	96.9	121.1	145.2	160.4	166.5	172.8	178.9	185.1
100°	52.5	49.8	102.2	154.5	206.8	259.1	282.0	275.3	268.5	261.9	255.2
102.5°	91.0	99.4	156.5	213.7	270.8	328.0	354.2	349.3	344.6	339.7	334.9
105°	271.2	330.6	360.8	391.0	421.2	451.4	464.6	461.0	457.3	453.6	449.9
107.5°	562.5	606.0	601.3	596.5	591.7	586.9	583.1	580.2	577.1	574.2	571.3
110°	669.8	680.9	677.2	673.5	669.8	666.1	663.0	660.2	657.5	654.9	652.2



TEST NUMBER: P332204-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	757.2	757.0	753.3	749.6	745.9	742.3	739.1	736.8	734.4	732.0	729.5
115°	869.9	866.6	863.5	860.5	857.6	854.5	852.0	850.0	848.0	846.0	843.9
117.5°	975.5	972.9	971.3	969.8	968.3	966.7	964.7	962.2	959.7	957.3	954.7
120°	1044.4	1041.7	1040.7	1039.7	1038.6	1037.7	1035.7	1032.7	1029.7	1026.6	1023.6
122.5°	1112.5	1110.5	1109.2	1108.0	1106.7	1105.5	1103.6	1101.1	1098.6	1096.1	1093.7
125°	1208.5	1207.8	1206.5	1205.1	1203.8	1202.4	1200.4	1197.7	1195.1	1192.3	1189.6
127.5°	1303.0	1302.0	1300.4	1298.8	1297.2	1295.6	1293.4	1290.7	1288.1	1285.4	1282.6
130°	1360.1	1358.8	1357.5	1356.0	1354.7	1353.4	1351.4	1348.7	1346.0	1343.3	1340.6
132.5°	1414.4	1413.1	1412.0	1411.0	1409.9	1408.9	1406.9	1404.2	1401.6	1398.9	1396.2
135°	1497.1	1496.1	1494.8	1493.5	1492.1	1490.8	1489.1	1487.1	1485.1	1483.1	1481.1
137.5°	1569.9	1568.3	1567.6	1566.8	1566.1	1565.4	1563.7	1561.2	1558.6	1556.1	1553.5
140°	1616.8	1615.4	1614.4	1613.4	1612.4	1611.3	1609.9	1607.9	1605.9	1603.9	1601.8
142.5°	1661.1	1660.1	1659.1	1658.1	1657.1	1656.1	1654.6	1652.5	1650.5	1648.5	1646.5
145°	1723.2	1722.6	1721.9	1721.2	1720.6	1719.9	1718.4	1716.1	1713.7	1711.3	1709.0
147.5°	1778.6	1777.9	1777.2	1776.6	1775.8	1775.1	1774.0	1772.5	1771.0	1769.5	1767.9
150°	1812.3	1811.7	1811.0	1810.4	1809.7	1809.0	1808.2	1807.2	1806.1	1805.1	1804.1
152.5°	1841.9	1840.7	1840.3	1839.9	1839.5	1839.1	1838.7	1838.2	1837.7	1837.2	1836.7
155°	1882.8	1881.1	1880.8	1880.5	1880.2	1879.8	1880.0	1880.7	1881.3	1882.0	1882.6
157.5°	1918.4	1916.4	1916.8	1917.1	1917.4	1917.8	1918.0	1918.0	1918.1	1918.2	1918.2
160°	1939.0	1937.0	1937.3	1937.6	1938.0	1938.3	1938.6	1939.0	1939.3	1939.6	1940.1
162.5°	1957.4	1955.1	1955.4	1955.8	1956.1	1956.4	1957.0	1957.9	1958.8	1959.6	1960.6
165°	1982.0	1979.2	1979.6	1979.9	1980.2	1980.6	1981.3	1982.3	1983.3	1984.3	1985.3
167.5°	2001.2	1998.6	1998.6	1998.6	1998.6	1998.6	1999.2	2000.6	2002.0	2003.3	2004.6
170°	2012.2	2009.4	2009.4	2009.4	2009.4	2009.4	2010.1	2011.4	2012.8	2014.2	2015.5
172.5°	2019.4	2016.7	2016.4	2016.2	2015.9	2015.6	2016.3	2017.9	2019.5	2021.1	2022.8
175°	2028.4	2026.1	2025.7	2025.4	2025.1	2024.7	2025.4	2027.1	2028.7	2030.4	2032.1
177.5°	2031.8	2029.7	2029.4	2029.1	2028.9	2028.6	2029.1	2030.5	2031.8	2033.2	2034.5
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	15.2	16.0	18.3	20.0	23.0	25.5	25.9	25.7	26.0	25.7	25.3
90°	4.8	8.2	11.6	14.9	18.8	23.1	27.5	31.9	36.3	37.6	38.9
92.5°	27.2	26.2	25.2	24.3	25.4	28.8	32.1	35.3	38.7	40.8	42.9
95°	78.4	64.6	50.8	37.1	32.0	35.7	39.4	43.1	46.8	49.2	51.5
97.5°	178.9	172.8	166.5	160.4	145.2	121.1	96.9	72.8	48.6	51.3	54.0
100°	261.9	268.5	275.3	282.0	259.1	206.8	154.5	102.2	49.8	52.5	55.1
102.5°	339.7	344.6	349.3	354.2	328.0	270.8	213.7	156.5	99.4	91.0	82.7
105°	453.6	457.3	461.0	464.6	451.4	421.2	391.0	360.8	330.6	271.2	211.9
107.5°	574.2	577.1	580.2	583.1	586.9	591.7	596.5	601.3	606.0	562.5	518.9
110°	654.9	657.5	660.2	663.0	666.1	669.8	673.5	677.2	680.9	669.8	658.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	732.0	734.4	736.8	739.1	742.3	745.9	749.6	753.3	757.0	757.2	757.4
115°	846.0	848.0	850.0	852.0	854.5	857.6	860.5	863.5	866.6	869.9	873.3
117.5°	957.3	959.7	962.2	964.7	966.7	968.3	969.8	971.3	972.9	975.5	978.3
120°	1026.6	1029.7	1032.7	1035.7	1037.7	1038.6	1039.7	1040.7	1041.7	1044.4	1047.1
122.5°	1096.1	1098.6	1101.1	1103.6	1105.5	1106.7	1108.0	1109.2	1110.5	1112.5	1114.3
125°	1192.3	1195.1	1197.7	1200.4	1202.4	1203.8	1205.1	1206.5	1207.8	1208.5	1209.1
127.5°	1285.4	1288.1	1290.7	1293.4	1295.6	1297.2	1298.8	1300.4	1302.0	1303.0	1304.1
130°	1343.3	1346.0	1348.7	1351.4	1353.4	1354.7	1356.0	1357.5	1358.8	1360.1	1361.4
132.5°	1398.9	1401.6	1404.2	1406.9	1408.9	1409.9	1411.0	1412.0	1413.1	1414.4	1415.8
135°	1483.1	1485.1	1487.1	1489.1	1490.8	1492.1	1493.5	1494.8	1496.1	1497.1	1498.1
137.5°	1556.1	1558.6	1561.2	1563.7	1565.4	1566.1	1566.8	1567.6	1568.3	1569.9	1571.6
140°	1603.9	1605.9	1607.9	1609.9	1611.3	1612.4	1613.4	1614.4	1615.4	1616.8	1618.1
142.5°	1648.5	1650.5	1652.5	1654.6	1656.1	1657.1	1658.1	1659.1	1660.1	1661.1	1662.2
145°	1711.3	1713.7	1716.1	1718.4	1719.9	1720.6	1721.2	1721.9	1722.6	1723.2	1723.9
147.5°	1769.5	1771.0	1772.5	1774.0	1775.1	1775.8	1776.6	1777.2	1777.9	1778.6	1779.2
150°	1805.1	1806.1	1807.2	1808.2	1809.0	1809.7	1810.4	1811.0	1811.7	1812.3	1813.0
152.5°	1837.2	1837.7	1838.2	1838.7	1839.1	1839.5	1839.9	1840.3	1840.7	1841.9	1843.1
155°	1882.0	1881.3	1880.7	1880.0	1879.8	1880.2	1880.5	1880.8	1881.1	1882.8	1884.5
157.5°	1918.2	1918.1	1918.0	1918.0	1917.8	1917.4	1917.1	1916.8	1916.4	1918.4	1920.5
160°	1939.6	1939.3	1939.0	1938.6	1938.3	1938.0	1937.6	1937.3	1937.0	1939.0	1941.1
162.5°	1959.6	1958.8	1957.9	1957.0	1956.4	1956.1	1955.8	1955.4	1955.1	1957.4	1959.6
165°	1984.3	1983.3	1982.3	1981.3	1980.6	1980.2	1979.9	1979.6	1979.2	1982.0	1984.6
167.5°	2003.3	2002.0	2000.6	1999.2	1998.6	1998.6	1998.6	1998.6	1998.6	2001.2	2004.0
170°	2014.2	2012.8	2011.4	2010.1	2009.4	2009.4	2009.4	2009.4	2009.4	2012.2	2014.8
172.5°	2021.1	2019.5	2017.9	2016.3	2015.6	2015.9	2016.2	2016.4	2016.7	2019.4	2022.1
175°	2030.4	2028.7	2027.1	2025.4	2024.7	2025.1	2025.4	2025.7	2026.1	2028.4	2030.7
177.5°	2033.2	2031.8	2030.5	2029.1	2028.6	2028.9	2029.1	2029.4	2029.7	2031.8	2034.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	25.0	24.8	24.4	25.1	24.7	24.3	25.5
90°	40.3	41.6	42.6	43.3	43.9	44.6	45.2
92.5°	45.1	47.3	48.5	48.9	49.3	49.7	50.1
95°	53.8	56.1	57.4	57.4	57.4	57.4	57.4
97.5°	56.7	59.4	60.9	61.2	61.5	61.9	62.2
100°	57.9	60.6	62.1	62.4	62.7	63.1	63.4
102.5°	74.4	66.0	62.2	62.8	63.4	64.0	64.6
105°	152.5	93.1	63.7	64.4	65.1	65.7	66.4
107.5°	475.3	431.8	387.7	343.0	298.1	253.4	208.6
110°	647.6	636.6	607.0	559.1	511.1	463.1	415.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	757.6	757.8	752.9	742.7	732.6	722.5	712.3
115°	876.7	880.0	882.3	883.7	885.0	886.4	887.8
117.5°	980.9	983.6	985.1	985.3	985.6	985.9	986.1
120°	1049.8	1052.5	1053.8	1053.8	1053.8	1053.8	1053.8
122.5°	1116.2	1118.1	1119.1	1119.4	1119.6	1119.9	1120.2
125°	1209.8	1210.4	1211.1	1211.8	1212.4	1213.2	1213.9
127.5°	1305.3	1306.3	1306.5	1305.9	1305.1	1304.4	1303.8
130°	1362.8	1364.1	1364.4	1363.8	1363.1	1362.4	1361.8
132.5°	1417.1	1418.5	1418.7	1417.7	1416.8	1415.8	1414.9
135°	1499.1	1500.2	1500.2	1499.1	1498.1	1497.1	1496.1
137.5°	1573.2	1574.8	1575.2	1574.6	1573.9	1573.2	1572.6
140°	1619.4	1620.7	1621.1	1620.4	1619.8	1619.1	1618.4
142.5°	1663.3	1664.4	1664.5	1663.6	1662.5	1661.6	1660.7
145°	1724.6	1725.3	1725.7	1725.7	1725.7	1725.7	1725.7
147.5°	1779.9	1780.6	1780.1	1778.6	1777.1	1775.4	1773.9
150°	1813.7	1814.3	1814.2	1813.2	1812.2	1811.2	1810.2
152.5°	1844.3	1845.5	1845.3	1843.8	1842.2	1840.7	1839.2
155°	1886.1	1887.8	1887.6	1885.6	1883.6	1881.6	1879.7
157.5°	1922.5	1924.5	1924.2	1921.6	1918.9	1916.3	1913.7
160°	1943.0	1945.0	1944.9	1942.5	1940.2	1937.8	1935.5
162.5°	1962.0	1964.2	1964.3	1962.3	1960.1	1958.1	1956.0
165°	1987.3	1990.0	1990.1	1987.8	1985.5	1983.1	1980.7
167.5°	2006.6	2009.3	2009.3	2006.6	2004.0	2001.2	1998.6
170°	2017.5	2020.2	2020.2	2017.5	2014.8	2012.2	2009.4
172.5°	2024.8	2027.4	2027.3	2024.4	2021.4	2018.4	2015.5
175°	2033.1	2035.5	2035.3	2032.6	2029.9	2027.2	2024.6
177.5°	2036.1	2038.3	2038.0	2035.3	2032.7	2029.9	2027.3
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1

(END OF REPORT)