

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: P332204-940

Luminaire Tested: **S123DIW-S1000D1535U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332204-940
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-S1000D1535U940-4F0-1E-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: 9257.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

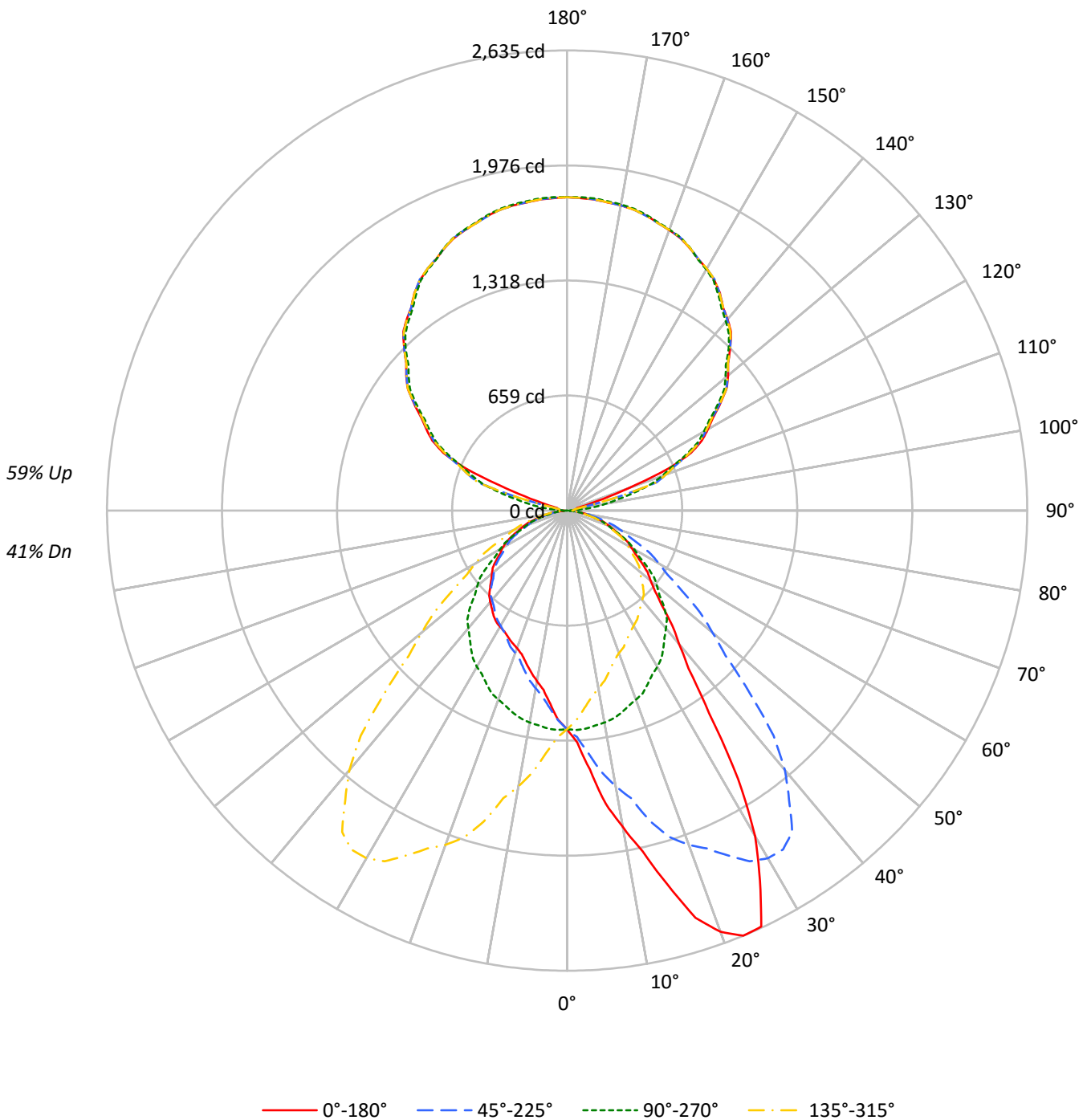
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13481	13481	13481	13481
5°	16077	13539	11998	13539
10°	20122	13470	10837	13470
15°	24681	13362	10089	13362
20°	29402	13192	9606	13192
25°	31220	12986	9499	12986
30°	26759	12837	9548	12837
35°	18611	12623	9648	12623
40°	14018	12372	9618	12372
45°	11639	12000	9496	12000
50°	10426	11238	9409	11238
55°	9747	10419	9293	10419
60°	9143	9563	9197	9563
65°	8593	8716	8904	8716
70°	8060	7755	8478	7755
75°	7216	6791	7773	6791
80°	6316	5566	6695	5566
85°	4940	4039	4495	4039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.3
10°-20°	395.6	4.3
20°-30°	664.0	7.2
30°-40°	751.8	8.1
40°-50°	674.2	7.3
50°-60°	544.1	5.9
60°-70°	379.1	4.1
70°-80°	199.3	2.2
80°-90°	53.8	0.6
90°-100°	65.2	0.7
100°-110°	310.9	3.4
110°-120°	746.8	8.1
120°-130°	951.0	10.3
130°-140°	1016.1	11.0
140°-150°	950.2	10.3
150°-160°	766.5	8.3
160°-170°	494.7	5.3
170°-180°	170.5	1.8
0°-30°	1182.9	12.8
0°-40°	1934.7	20.9
0°-60°	3153.0	34.1
0°-90°	3785.1	40.9
90°-120°	1123.0	12.1
90°-150°	4040.3	43.6
90°-180°	5472.0	59.1
0°-180°	9257.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1488	1253	1110	1253	1488	154
15°	2215	1199	905	1199	2215	639
25°	2629	1093	800	1093	2629	1153
35°	1416	961	734	961	1416	920
45°	765	788	624	788	765	605
55°	519	555	495	555	519	466
65°	337	342	350	342	337	336
75°	174	163	187	163	174	186
85°	40	33	36	33	40	48
90°	40	1	40	1	40	20
95°	51	81	51	81	51	42
105°	59	397	59	397	59	134
115°	784	745	784	745	784	724
125°	1072	1050	1072	1050	1072	957
135°	1321	1308	1321	1308	1321	1019
145°	1524	1509	1524	1509	1524	951
155°	1660	1662	1660	1662	1660	765
165°	1749	1753	1749	1753	1749	494
175°	1788	1794	1788	1794	1788	170
180°	1794	1794	1794	1794	1794	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1329.1	1328.2	1325.7	1327.7	1323.8	1318.5	1317.9	1313.1	1299.0	1298.1	1294.2
5°	1487.9	1483.0	1482.4	1481.8	1473.3	1461.8	1439.9	1438.2	1409.0	1394.5	1376.8
7.5°	1693.4	1696.0	1687.1	1679.4	1653.4	1636.3	1612.8	1582.9	1547.1	1510.8	1486.7
10°	1841.0	1861.1	1836.2	1819.2	1803.4	1773.7	1739.1	1696.0	1653.0	1602.6	1564.3
12.5°	1999.3	2009.1	2004.1	1988.2	1963.6	1918.3	1857.1	1809.6	1770.0	1686.0	1652.2
15°	2214.8	2251.8	2228.2	2173.5	2174.8	2131.7	2051.6	1963.6	1916.9	1843.4	1743.4
17.5°	2444.4	2449.1	2439.0	2393.4	2363.1	2303.9	2230.0	2145.6	2051.0	1962.1	1856.0
20°	2566.8	2563.1	2541.9	2518.2	2466.0	2419.9	2339.2	2245.1	2123.8	2036.4	1920.6
22.5°	2634.7	2628.7	2618.6	2598.8	2555.4	2505.9	2433.4	2330.6	2215.1	2094.7	1960.8
25°	2628.7	2636.5	2637.8	2632.3	2617.2	2587.4	2530.3	2448.5	2333.2	2178.4	2038.9
27.5°	2390.8	2402.0	2434.4	2463.2	2495.3	2528.1	2523.7	2483.1	2397.7	2264.1	2093.5
30°	2152.9	2128.7	2188.7	2264.6	2316.1	2407.2	2458.2	2461.2	2413.2	2298.6	2132.3
32.5°	1822.8	1849.5	1876.1	1969.4	2082.1	2184.3	2285.8	2367.5	2376.9	2300.5	2155.1
35°	1416.3	1449.7	1498.2	1546.8	1668.1	1772.5	1950.9	2106.2	2230.0	2246.4	2157.1
37.5°	1141.3	1157.8	1188.5	1237.2	1316.5	1440.3	1578.3	1774.7	1954.0	2087.4	2093.2
40°	997.6	1002.5	1037.1	1074.1	1138.4	1240.3	1364.7	1538.2	1753.0	1939.4	2017.0
42.5°	889.8	900.4	915.2	950.7	1001.9	1078.6	1194.3	1337.7	1534.6	1749.0	1900.9
45°	764.6	776.7	785.8	809.5	845.9	897.4	978.2	1109.2	1259.1	1480.6	1685.1
47.5°	681.8	682.8	689.6	707.4	732.2	770.9	828.0	912.1	1049.7	1229.4	1439.3
50°	622.6	632.3	634.7	648.6	668.1	696.6	744.0	815.6	928.4	1086.2	1279.2
52.5°	580.9	583.7	590.6	600.7	617.6	639.8	680.8	736.9	825.5	959.9	1137.4
55°	519.4	519.4	526.1	534.0	543.7	563.7	591.0	632.3	699.6	804.1	950.8
57.5°	462.6	465.7	470.4	472.8	481.1	494.3	517.1	548.4	598.7	679.0	795.8
60°	424.7	430.3	429.6	434.4	441.8	452.1	471.4	497.0	541.9	606.2	704.5
62.5°	391.7	391.4	391.3	397.1	404.4	414.2	426.9	448.9	487.1	544.0	627.8
65°	337.4	336.2	340.5	344.0	346.5	353.7	363.5	382.9	408.4	450.8	515.8
67.5°	289.1	285.5	287.8	289.1	293.2	298.9	308.0	320.0	340.3	374.4	423.3
70°	256.1	253.1	252.4	253.6	257.3	261.5	268.2	279.7	298.5	325.8	361.7
72.5°	222.1	220.0	219.9	222.6	224.3	227.0	231.8	242.4	257.3	277.8	311.2
75°	173.5	173.5	173.5	174.2	175.9	178.4	182.0	187.5	199.0	213.6	236.0
77.5°	130.1	130.0	129.2	129.1	131.8	132.9	133.8	138.8	145.3	155.1	171.5
80°	101.9	98.9	100.1	101.9	103.2	103.8	105.6	106.8	112.3	117.7	129.2
82.5°	75.7	73.2	73.4	76.2	76.4	77.0	78.9	80.6	82.7	87.7	93.8
85°	40.0	40.0	40.7	40.7	41.3	40.7	42.4	43.1	43.1	46.1	49.8
87.5°	22.6	21.5	21.8	22.2	21.6	21.9	22.1	22.4	22.6	22.9	22.6
90°	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3	33.2	32.0	28.2
92.5°	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9	36.0	34.2	31.2
95°	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5	43.4	41.3	38.1
97.5°	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7	45.3	42.9	64.3
100°	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7	46.4	44.0	90.2
102.5°	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0	80.3	87.7	138.2
105°	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1	239.5	291.9	318.6
107.5°	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2	496.7	535.1	530.9
110°	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7	591.5	601.2	598.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8	668.6	668.4	665.1
115°	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2	768.1	765.2	762.5
117.5°	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8	861.4	859.1	857.6
120°	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6	922.2	919.8	918.9
122.5°	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9	982.3	980.6	979.5
125°	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6	1067.1	1066.5	1065.3
127.5°	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6	1150.6	1149.7	1148.3
130°	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1	1201.0	1199.8	1198.6
132.5°	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2	1248.9	1247.8	1246.8
135°	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1	1319.9
137.5°	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7	1386.3	1384.8	1384.2
140°	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8	1427.6	1426.4	1425.5
142.5°	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8	1466.8	1465.9	1465.0
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2	1521.6	1521.1	1520.5
147.5°	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0	1570.5	1569.9	1569.2
150°	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9	1600.3	1599.7	1599.1
152.5°	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5	1626.4	1625.3	1625.0
155°	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0	1662.5	1661.0	1660.7
157.5°	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8	1694.0	1692.2	1692.6
160°	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0	1712.2	1710.4	1710.7
162.5°	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4	1728.4	1726.4	1726.6
165°	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4	1750.1	1747.7	1748.0
167.5°	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8	1764.8
170°	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3	1774.3
172.5°	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5	1783.2	1780.7	1780.5
175°	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1	1791.1	1789.0	1788.7
177.5°	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0	1794.1	1792.2	1792.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1291.3	1287.4	1283.5	1276.8	1270.9	1262.7	1260.2	1257.3	1248.6	1240.8	1234.9
5°	1370.1	1355.6	1334.4	1314.9	1299.1	1277.9	1265.8	1253.0	1234.8	1218.4	1205.1
7.5°	1452.7	1424.1	1391.1	1355.3	1322.1	1290.0	1264.2	1241.2	1215.7	1191.5	1172.7
10°	1518.2	1476.9	1430.8	1381.1	1338.6	1297.4	1262.8	1232.4	1199.6	1171.1	1147.5
12.5°	1593.0	1531.8	1468.2	1407.7	1357.5	1300.3	1258.4	1219.8	1182.7	1148.3	1121.8
15°	1681.4	1603.7	1528.6	1445.4	1369.0	1297.4	1247.6	1199.1	1155.9	1120.8	1086.8
17.5°	1762.0	1674.0	1574.9	1473.8	1381.5	1296.6	1227.0	1172.1	1118.2	1075.1	1041.3
20°	1807.7	1707.5	1595.3	1490.3	1388.4	1293.7	1217.3	1151.7	1093.4	1047.9	1009.7
22.5°	1847.0	1729.8	1613.7	1501.5	1387.9	1285.9	1199.3	1131.8	1068.7	1024.1	983.5
25°	1887.8	1747.6	1631.1	1499.4	1372.6	1267.0	1169.9	1093.4	1030.4	978.2	936.3
27.5°	1922.7	1746.4	1608.1	1466.5	1348.5	1242.7	1139.1	1057.0	990.1	933.4	890.9
30°	1946.0	1748.8	1584.4	1444.2	1325.3	1216.0	1115.3	1032.8	962.4	904.7	864.7
32.5°	1960.6	1747.3	1562.5	1413.1	1288.3	1191.8	1089.6	1004.2	931.8	875.1	836.5
35°	1969.1	1736.7	1524.9	1348.9	1228.8	1134.7	1049.2	960.6	884.8	832.0	788.3
37.5°	1952.0	1714.2	1481.2	1287.0	1155.5	1062.8	990.9	915.4	842.8	784.7	747.1
40°	1925.4	1699.7	1447.2	1243.3	1105.0	1015.7	954.5	880.5	808.9	753.7	718.5
42.5°	1874.4	1670.0	1409.9	1194.8	1052.6	963.3	907.0	845.1	777.3	725.5	690.3
45°	1750.0	1605.6	1353.8	1122.0	975.1	882.9	833.1	788.3	726.9	676.5	646.2
47.5°	1577.4	1508.6	1272.7	1045.2	894.3	805.6	753.9	717.7	673.0	632.3	603.2
50°	1457.5	1429.1	1217.8	992.7	840.4	753.7	703.9	671.1	639.0	598.3	571.6
52.5°	1319.2	1336.8	1153.8	938.3	785.6	700.3	653.4	627.4	598.2	564.8	541.5
55°	1124.4	1188.1	1043.1	847.1	703.9	622.6	578.3	555.2	538.2	513.4	493.3
57.5°	942.0	1023.1	923.5	753.0	623.7	553.5	511.0	485.9	475.0	462.0	446.2
60°	833.7	913.8	838.0	689.9	569.8	503.0	465.4	444.2	433.3	424.2	410.8
62.5°	737.2	818.2	754.5	625.9	516.8	455.0	422.2	401.4	393.0	388.3	376.8
65°	604.4	674.1	631.7	526.1	441.1	386.6	356.8	342.2	334.4	332.5	325.2
67.5°	491.9	545.0	514.1	436.4	369.5	322.4	297.1	284.7	278.7	278.0	272.6
70°	418.1	467.9	444.2	373.8	316.1	279.1	257.3	246.4	242.7	242.1	239.1
72.5°	360.8	395.5	376.7	318.0	273.4	239.8	223.8	212.4	208.2	209.1	207.1
75°	267.0	293.1	282.1	241.5	205.7	183.9	170.5	163.3	159.6	161.4	159.0
77.5°	192.1	208.7	198.8	170.7	148.6	132.8	123.0	118.4	115.2	115.0	114.0
80°	145.0	154.7	149.3	132.2	114.0	100.8	92.8	89.8	88.0	87.4	86.8
82.5°	103.3	111.6	105.1	93.5	81.1	73.0	68.6	64.6	63.2	63.6	63.0
85°	52.2	55.2	52.8	45.5	40.7	37.0	34.6	32.7	31.6	32.2	30.9
87.5°	22.8	22.6	20.3	17.7	16.1	14.1	13.5	11.9	11.5	12.1	12.2
90°	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3	4.3	7.2	10.3
92.5°	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8	24.0	23.1	22.3
95°	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3	69.2	57.1	44.9
97.5°	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5	158.0	152.6	147.0
100°	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3	231.2	237.1	243.1
102.5°	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7	300.0	304.3	308.4
105°	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3	400.6	403.8	407.1
107.5°	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4	507.0	509.6	512.3
110°	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9	578.3	580.6	583.0



TEST NUMBER: P332204-940

CATALOG NUMBER: S123DIW-S1000D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2	646.3	648.5	650.6
115°	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2	747.0	748.8	750.6
117.5°	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0	845.3	847.4	849.6
120°	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8	906.5	909.2	911.9
122.5°	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7	967.9	970.1	972.2
125°	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4	1052.8	1055.3	1057.6
127.5°	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6	1135.0	1137.4	1139.7
130°	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7	1186.2	1188.6	1190.9
132.5°	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9	1235.2	1237.6	1239.9
135°	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8	1309.6	1311.3	1313.1
137.5°	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7	1374.0	1376.3	1378.5
140°	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4	1416.2	1418.0	1419.8
142.5°	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8	1455.6	1457.4	1459.2
145°	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0	1511.1	1513.2	1515.3
147.5°	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0	1562.5	1563.8	1565.1
150°	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0	1593.9	1594.8	1595.7
152.5°	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8	1622.3	1622.6	1623.1
155°	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3	1661.8	1661.2	1660.6
157.5°	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8	1693.8	1693.7	1693.6
160°	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1	1712.7	1712.4	1712.2
162.5°	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2	1730.4	1729.7	1728.8
165°	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0	1752.1	1751.2	1750.3
167.5°	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0	1768.9	1767.7	1766.6
170°	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7	1778.5	1777.3	1776.1
172.5°	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1	1784.7	1783.2	1781.8
175°	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3	1792.9	1791.4	1789.9
177.5°	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4	1795.3	1794.1	1793.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332204-940

CATALOG NUMBER: S123DIW-S1000D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1231.5	1228.2	1223.3	1216.0	1210.2	1201.0	1201.0	1202.5	1202.5	1201.9	1201.0
5°	1194.2	1185.1	1174.2	1161.5	1148.1	1134.7	1132.3	1127.5	1123.8	1121.3	1118.3
7.5°	1154.8	1138.6	1122.7	1104.8	1088.6	1075.1	1065.8	1058.0	1053.0	1047.7	1043.8
10°	1128.0	1108.0	1089.2	1070.4	1049.7	1033.4	1023.1	1015.7	1010.3	1005.5	1003.1
12.5°	1096.4	1073.5	1052.8	1034.9	1012.4	995.5	985.7	982.3	975.9	965.6	960.3
15°	1050.3	1029.1	1004.2	977.0	966.0	945.4	933.9	928.4	924.8	916.9	914.4
17.5°	1010.9	983.1	955.2	934.9	914.5	897.9	891.4	884.6	879.8	873.3	871.4
20°	979.4	954.5	929.0	907.1	885.9	867.7	862.3	857.4	852.6	849.5	847.1
22.5°	947.4	922.5	901.3	880.9	858.3	846.3	840.4	835.1	831.7	829.6	827.2
25°	902.3	880.5	856.8	838.6	820.4	812.5	808.9	805.8	803.4	800.4	799.8
27.5°	862.0	838.2	819.0	802.1	789.0	782.4	778.9	777.4	777.9	779.0	779.7
30°	832.0	810.1	794.3	779.7	767.6	761.5	760.9	760.9	763.4	763.9	765.2
32.5°	804.2	786.3	770.5	756.4	747.3	743.1	745.4	745.4	747.3	748.9	751.1
35°	763.9	748.1	736.0	723.9	716.0	717.8	719.1	720.2	723.3	726.9	729.4
37.5°	725.5	711.8	699.2	689.6	686.1	689.3	692.2	694.8	698.3	701.1	703.6
40°	697.9	687.5	675.4	666.9	668.1	669.9	672.3	675.4	678.4	680.2	682.7
42.5°	672.1	661.3	652.1	645.1	646.8	649.1	650.5	652.1	655.6	658.9	660.3
45°	632.9	624.4	615.9	611.6	612.9	614.1	615.3	617.2	620.2	622.6	623.2
47.5°	588.8	582.9	577.2	573.1	575.0	574.5	576.1	580.0	580.9	582.4	585.8
50°	560.7	555.2	548.6	547.3	547.3	547.3	548.0	552.8	552.8	555.2	557.7
52.5°	529.6	526.1	521.8	519.7	518.7	518.7	521.2	523.7	524.7	528.1	530.5
55°	483.7	480.0	476.4	474.5	473.3	474.5	479.4	480.5	483.7	485.4	487.2
57.5°	435.7	432.9	430.0	429.0	428.7	430.3	433.0	436.7	437.4	443.0	445.8
60°	404.1	399.8	397.4	397.4	396.3	401.7	400.5	406.5	407.8	411.4	415.6
62.5°	371.6	365.9	364.9	364.9	366.7	368.2	369.9	372.6	375.8	380.3	383.6
65°	319.1	316.1	320.4	319.8	318.6	322.2	322.2	325.2	328.9	333.1	339.8
67.5°	269.6	268.0	268.3	268.3	270.2	272.2	273.9	276.6	281.0	285.4	289.8
70°	236.0	237.9	234.9	237.3	239.1	239.7	240.9	244.5	249.4	252.4	257.3
72.5°	203.5	203.4	203.8	204.7	206.5	207.7	208.8	213.0	218.3	220.9	224.8
75°	156.6	156.0	157.7	157.7	160.8	162.0	163.3	165.1	169.9	173.5	176.6
77.5°	114.3	115.0	114.7	116.7	115.9	116.1	119.9	121.7	122.3	129.4	131.0
80°	86.1	87.4	88.0	88.6	89.2	88.0	92.2	94.1	94.1	98.3	101.3
82.5°	61.9	62.6	64.2	64.8	64.9	66.2	66.5	67.9	69.3	71.2	75.1
85°	30.9	32.7	33.3	32.7	33.3	32.2	34.0	34.6	35.2	35.2	35.2
87.5°	12.3	13.6	13.8	15.1	15.3	16.6	16.9	16.1	16.3	18.0	16.2
90°	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3	35.6	36.7	37.6
92.5°	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9	39.9	41.7	42.8
95°	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5	47.5	49.6	50.6
97.5°	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7	50.0	52.4	53.8
100°	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7	51.1	53.5	54.8
102.5°	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0	65.7	58.3	54.9
105°	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1	134.6	82.2	56.3
107.5°	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2	419.7	381.3	342.3
110°	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7	571.9	562.1	536.0



TEST NUMBER: P332204-940

CATALOG NUMBER: S123DIW-S1000D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8	669.0	669.1	664.8
115°	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2	774.1	777.0	779.1
117.5°	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8	866.1	868.5	869.9
120°	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6	926.9	929.3	930.5
122.5°	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9	985.6	987.3	988.2
125°	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6	1068.3	1068.8	1069.4
127.5°	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6	1152.5	1153.4	1153.6
130°	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1	1203.4	1204.5	1204.8
132.5°	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2	1251.3	1252.5	1252.7
135°	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6
137.5°	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7	1389.1	1390.5	1390.9
140°	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8	1429.9	1431.1	1431.5
142.5°	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8	1468.7	1469.6	1469.7
145°	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2	1522.9	1523.4	1523.8
147.5°	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0	1571.6	1572.3	1571.8
150°	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9	1601.5	1602.0	1602.0
152.5°	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5	1628.5	1629.6	1629.4
155°	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0	1665.4	1667.0	1666.8
157.5°	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8	1697.5	1699.3	1699.1
160°	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0	1715.7	1717.4	1717.3
162.5°	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4	1732.4	1734.4	1734.5
165°	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4	1754.8	1757.2	1757.3
167.5°	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2
170°	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9
172.5°	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5	1787.9	1790.2	1790.1
175°	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1	1795.2	1797.3	1797.2
177.5°	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0	1797.9	1799.8	1799.6
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332204-940

CATALOG NUMBER: S123DIW-S1000D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1197.6	1197.1	1200.5	1198.1	1200.5	1197.1	1197.6	1201.0	1201.9	1202.5	1202.5
5°	1114.7	1116.5	1110.4	1110.4	1110.4	1116.5	1114.7	1118.3	1121.3	1123.8	1127.5
7.5°	1040.9	1038.2	1038.5	1035.2	1038.5	1038.2	1040.9	1043.8	1047.7	1053.0	1058.0
10°	995.8	992.1	990.9	991.5	990.9	992.1	995.8	1003.1	1005.5	1010.3	1015.7
12.5°	958.4	957.7	949.7	949.8	949.7	957.7	958.4	960.3	965.6	975.9	982.3
15°	914.4	902.9	901.7	905.4	901.7	902.9	914.4	914.4	916.9	924.8	928.4
17.5°	870.4	864.3	864.7	862.9	864.7	864.3	870.4	871.4	873.3	879.8	884.6
20°	847.1	843.5	842.8	838.6	842.8	843.5	847.1	847.1	849.5	852.6	857.4
22.5°	825.7	824.6	824.9	820.2	824.9	824.6	825.7	827.2	829.6	831.7	835.1
25°	799.2	802.2	799.8	799.8	799.8	802.2	799.2	799.8	800.4	803.4	805.8
27.5°	781.2	781.0	779.9	779.9	779.9	781.0	781.2	779.7	779.0	777.9	777.4
30°	767.6	767.0	768.2	768.2	768.2	767.0	767.6	765.2	763.9	763.4	760.9
32.5°	754.0	754.8	755.1	755.5	755.1	754.8	754.0	751.1	748.9	747.3	745.4
35°	733.0	733.6	735.5	734.2	735.5	733.6	733.0	729.4	726.9	723.3	720.2
37.5°	704.6	707.4	706.8	707.8	706.8	707.4	704.6	703.6	701.1	698.3	694.8
40°	683.2	685.1	684.5	684.5	684.5	685.1	683.2	682.7	680.2	678.4	675.4
42.5°	661.4	662.7	661.2	660.2	661.2	662.7	661.4	660.3	658.9	655.6	652.1
45°	625.6	624.4	626.2	623.8	626.2	624.4	625.6	623.2	622.6	620.2	617.2
47.5°	585.6	586.7	587.3	589.1	587.3	586.7	585.6	585.8	582.4	580.9	580.0
50°	558.8	562.5	562.5	561.9	562.5	562.5	558.8	557.7	555.2	552.8	552.8
52.5°	532.6	534.3	536.8	536.6	536.8	534.3	532.6	530.5	528.1	524.7	523.7
55°	492.1	493.3	494.5	495.2	494.5	493.3	492.1	487.2	485.4	483.7	480.5
57.5°	450.1	449.6	452.5	453.4	452.5	449.6	450.1	445.8	443.0	437.4	436.7
60°	420.5	420.5	425.3	427.2	425.3	420.5	420.5	415.6	411.4	407.8	406.5
62.5°	389.0	390.9	395.7	393.2	395.7	390.9	389.0	383.6	380.3	375.8	372.6
65°	342.9	347.7	347.1	349.6	347.1	347.7	342.9	339.8	333.1	328.9	325.2
67.5°	294.6	297.7	302.0	302.5	302.0	297.7	294.6	289.8	285.4	281.0	276.6
70°	262.2	265.2	267.6	269.4	267.6	265.2	262.2	257.3	252.4	249.4	244.5
72.5°	230.6	232.2	238.0	235.4	238.0	232.2	230.6	224.8	220.9	218.3	213.0
75°	180.8	185.0	188.7	186.9	188.7	185.0	180.8	176.6	173.5	169.9	165.1
77.5°	133.8	137.9	139.6	138.1	139.6	137.9	133.8	131.0	129.4	122.3	121.7
80°	105.6	105.0	108.6	108.0	108.6	105.0	105.6	101.3	98.3	94.1	94.1
82.5°	77.4	76.9	78.6	78.9	78.6	76.9	77.4	75.1	71.2	69.3	67.9
85°	37.6	39.4	37.0	36.4	37.0	39.4	37.6	35.2	35.2	35.2	34.6
87.5°	16.4	16.5	16.1	15.8	16.1	16.5	16.4	16.2	18.0	16.3	16.1
90°	38.3	38.8	39.4	39.9	39.4	38.8	38.3	37.6	36.7	35.6	34.3
92.5°	43.2	43.5	43.9	44.2	43.9	43.5	43.2	42.8	41.7	39.9	37.9
95°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	49.6	47.5	45.5
97.5°	54.0	54.3	54.7	54.9	54.7	54.3	54.0	53.8	52.4	50.0	47.7
100°	55.1	55.4	55.7	56.0	55.7	55.4	55.1	54.8	53.5	51.1	48.7
102.5°	55.5	56.0	56.5	57.1	56.5	56.0	55.5	54.9	58.3	65.7	73.0
105°	56.9	57.5	58.1	58.7	58.1	57.5	56.9	56.3	82.2	134.6	187.1
107.5°	302.8	263.2	223.7	184.2	223.7	263.2	302.8	342.3	381.3	419.7	458.2
110°	493.7	451.3	408.9	366.6	408.9	451.3	493.7	536.0	562.1	571.9	581.7



TEST NUMBER: P332204-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	655.8	646.8	637.9	628.9	637.9	646.8	655.8	664.8	669.1	669.0	668.8
115°	780.3	781.5	782.7	783.9	782.7	781.5	780.3	779.1	777.0	774.1	771.2
117.5°	870.0	870.3	870.6	870.8	870.6	870.3	870.0	869.9	868.5	866.1	863.8
120°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	929.3	926.9	924.6
122.5°	988.5	988.6	988.9	989.2	988.9	988.6	988.5	988.2	987.3	985.6	983.9
125°	1070.1	1070.6	1071.2	1071.8	1071.2	1070.6	1070.1	1069.4	1068.8	1068.3	1067.6
127.5°	1153.1	1152.4	1151.8	1151.3	1151.8	1152.4	1153.1	1153.6	1153.4	1152.5	1151.6
130°	1204.3	1203.6	1203.0	1202.5	1203.0	1203.6	1204.3	1204.8	1204.5	1203.4	1202.1
132.5°	1251.9	1251.1	1250.2	1249.4	1250.2	1251.1	1251.9	1252.7	1252.5	1251.3	1250.2
135°	1323.7	1322.9	1322.0	1321.1	1322.0	1322.9	1323.7	1324.6	1324.6	1323.7	1322.9
137.5°	1390.4	1389.7	1389.1	1388.6	1389.1	1389.7	1390.4	1390.9	1390.5	1389.1	1387.7
140°	1430.8	1430.3	1429.7	1429.1	1429.7	1430.3	1430.8	1431.5	1431.1	1429.9	1428.8
142.5°	1468.9	1468.0	1467.2	1466.4	1467.2	1468.0	1468.9	1469.7	1469.6	1468.7	1467.8
145°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.4	1522.9	1522.2
147.5°	1570.5	1569.1	1567.7	1566.4	1567.7	1569.1	1570.5	1571.8	1572.3	1571.6	1571.0
150°	1601.1	1600.2	1599.3	1598.4	1599.3	1600.2	1601.1	1602.0	1602.0	1601.5	1600.9
152.5°	1628.1	1626.7	1625.3	1624.0	1625.3	1626.7	1628.1	1629.4	1629.6	1628.5	1627.5
155°	1665.0	1663.2	1661.4	1659.7	1661.4	1663.2	1665.0	1666.8	1667.0	1665.4	1664.0
157.5°	1696.7	1694.4	1692.1	1689.8	1692.1	1694.4	1696.7	1699.1	1699.3	1697.5	1695.8
160°	1715.2	1713.2	1711.1	1709.1	1711.1	1713.2	1715.2	1717.3	1717.4	1715.7	1714.0
162.5°	1732.7	1730.8	1729.0	1727.2	1729.0	1730.8	1732.7	1734.5	1734.4	1732.4	1730.4
165°	1755.2	1753.2	1751.1	1749.0	1751.1	1753.2	1755.2	1757.3	1757.2	1754.8	1752.4
167.5°	1771.8	1769.5	1767.1	1764.8	1767.1	1769.5	1771.8	1774.2	1774.2	1771.8	1769.5
170°	1781.5	1779.1	1776.7	1774.3	1776.7	1779.1	1781.5	1783.9	1783.9	1781.5	1779.1
172.5°	1787.5	1784.9	1782.3	1779.7	1782.3	1784.9	1787.5	1790.1	1790.2	1787.9	1785.5
175°	1794.7	1792.4	1790.0	1787.7	1790.0	1792.4	1794.7	1797.2	1797.3	1795.2	1793.1
177.5°	1797.2	1794.8	1792.4	1790.1	1792.4	1794.8	1797.2	1799.6	1799.8	1797.9	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1201.0	1201.0	1210.2	1216.0	1223.3	1228.2	1231.5	1234.9	1240.8	1248.6	1257.3
5°	1132.3	1134.7	1148.1	1161.5	1174.2	1185.1	1194.2	1205.1	1218.4	1234.8	1253.0
7.5°	1065.8	1075.1	1088.6	1104.8	1122.7	1138.6	1154.8	1172.7	1191.5	1215.7	1241.2
10°	1023.1	1033.4	1049.7	1070.4	1089.2	1108.0	1128.0	1147.5	1171.1	1199.6	1232.4
12.5°	985.7	995.5	1012.4	1034.9	1052.8	1073.5	1096.4	1121.8	1148.3	1182.7	1219.8
15°	933.9	945.4	966.0	977.0	1004.2	1029.1	1050.3	1086.8	1120.8	1155.9	1199.1
17.5°	891.4	897.9	914.5	934.9	955.2	983.1	1010.9	1041.3	1075.1	1118.2	1172.1
20°	862.3	867.7	885.9	907.1	929.0	954.5	979.4	1009.7	1047.9	1093.4	1151.7
22.5°	840.4	846.3	858.3	880.9	901.3	922.5	947.4	983.5	1024.1	1068.7	1131.8
25°	808.9	812.5	820.4	838.6	856.8	880.5	902.3	936.3	978.2	1030.4	1093.4
27.5°	778.9	782.4	789.0	802.1	819.0	838.2	862.0	890.9	933.4	990.1	1057.0
30°	760.9	761.5	767.6	779.7	794.3	810.1	832.0	864.7	904.7	962.4	1032.8
32.5°	745.4	743.1	747.3	756.4	770.5	786.3	804.2	836.5	875.1	931.8	1004.2
35°	719.1	717.8	716.0	723.9	736.0	748.1	763.9	788.3	832.0	884.8	960.6
37.5°	692.2	689.3	686.1	689.6	699.2	711.8	725.5	747.1	784.7	842.8	915.4
40°	672.3	669.9	668.1	666.9	675.4	687.5	697.9	718.5	753.7	808.9	880.5
42.5°	650.5	649.1	646.8	645.1	652.1	661.3	672.1	690.3	725.5	777.3	845.1
45°	615.3	614.1	612.9	611.6	615.9	624.4	632.9	646.2	676.5	726.9	788.3
47.5°	576.1	574.5	575.0	573.1	577.2	582.9	588.8	603.2	632.3	673.0	717.7
50°	548.0	547.3	547.3	547.3	548.6	555.2	560.7	571.6	598.3	639.0	671.1
52.5°	521.2	518.7	518.7	519.7	521.8	526.1	529.6	541.5	564.8	598.2	627.4
55°	479.4	474.5	473.3	474.5	476.4	480.0	483.7	493.3	513.4	538.2	555.2
57.5°	433.0	430.3	428.7	429.0	430.0	432.9	435.7	446.2	462.0	475.0	485.9
60°	400.5	401.7	396.3	397.4	397.4	399.8	404.1	410.8	424.2	433.3	444.2
62.5°	369.9	368.2	366.7	364.9	364.9	365.9	371.6	376.8	388.3	393.0	401.4
65°	322.2	322.2	318.6	319.8	320.4	316.1	319.1	325.2	332.5	334.4	342.2
67.5°	273.9	272.2	270.2	268.3	268.3	268.0	269.6	272.6	278.0	278.7	284.7
70°	240.9	239.7	239.1	237.3	234.9	237.9	236.0	239.1	242.1	242.7	246.4
72.5°	208.8	207.7	206.5	204.7	203.8	203.4	203.5	207.1	209.1	208.2	212.4
75°	163.3	162.0	160.8	157.7	157.7	156.0	156.6	159.0	161.4	159.6	163.3
77.5°	119.9	116.1	115.9	116.7	114.7	115.0	114.3	114.0	115.0	115.2	118.4
80°	92.2	88.0	89.2	88.6	88.0	87.4	86.1	86.8	87.4	88.0	89.8
82.5°	66.5	66.2	64.9	64.8	64.2	62.6	61.9	63.0	63.6	63.2	64.6
85°	34.0	32.2	33.3	32.7	33.3	32.7	30.9	30.9	32.2	31.6	32.7
87.5°	16.9	16.6	15.3	15.1	13.8	13.6	12.3	12.2	12.1	11.5	11.9
90°	33.2	32.0	28.2	24.3	20.4	16.6	13.2	10.3	7.2	4.3	1.3
92.5°	36.0	34.2	31.2	28.4	25.4	22.5	21.5	22.3	23.1	24.0	24.8
95°	43.4	41.3	38.1	34.8	31.6	28.3	32.7	44.9	57.1	69.2	81.3
97.5°	45.3	42.9	64.3	85.6	106.9	128.2	141.6	147.0	152.6	158.0	163.5
100°	46.4	44.0	90.2	136.4	182.6	228.8	249.0	243.1	237.1	231.2	225.3
102.5°	80.3	87.7	138.2	188.7	239.2	289.6	312.7	308.4	304.3	300.0	295.7
105°	239.5	291.9	318.6	345.3	371.9	398.6	410.3	407.1	403.8	400.6	397.3
107.5°	496.7	535.1	530.9	526.7	522.5	518.3	514.9	512.3	509.6	507.0	504.4
110°	591.5	601.2	598.0	594.7	591.5	588.2	585.4	583.0	580.6	578.3	575.9



TEST NUMBER: P332204-940

CATALOG NUMBER: S123DIW-S1000D1535U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	668.6	668.4	665.1	661.9	658.6	655.4	652.6	650.6	648.5	646.3	644.2
115°	768.1	765.2	762.5	759.8	757.2	754.6	752.3	750.6	748.8	747.0	745.2
117.5°	861.4	859.1	857.6	856.3	855.0	853.6	851.9	849.6	847.4	845.3	843.0
120°	922.2	919.8	918.9	918.0	917.1	916.3	914.5	911.9	909.2	906.5	903.8
122.5°	982.3	980.6	979.5	978.4	977.2	976.2	974.5	972.2	970.1	967.9	965.7
125°	1067.1	1066.5	1065.3	1064.1	1062.9	1061.8	1060.0	1057.6	1055.3	1052.8	1050.4
127.5°	1150.6	1149.7	1148.3	1146.8	1145.4	1144.0	1142.1	1139.7	1137.4	1135.0	1132.6
130°	1201.0	1199.8	1198.6	1197.4	1196.2	1195.1	1193.3	1190.9	1188.6	1186.2	1183.7
132.5°	1248.9	1247.8	1246.8	1245.9	1244.9	1244.0	1242.3	1239.9	1237.6	1235.2	1232.9
135°	1322.0	1321.1	1319.9	1318.8	1317.5	1316.3	1314.9	1313.1	1311.3	1309.6	1307.8
137.5°	1386.3	1384.8	1384.2	1383.5	1382.9	1382.2	1380.7	1378.5	1376.3	1374.0	1371.7
140°	1427.6	1426.4	1425.5	1424.6	1423.7	1422.8	1421.6	1419.8	1418.0	1416.2	1414.4
142.5°	1466.8	1465.9	1465.0	1464.1	1463.2	1462.3	1461.0	1459.2	1457.4	1455.6	1453.8
145°	1521.6	1521.1	1520.5	1519.8	1519.3	1518.7	1517.3	1515.3	1513.2	1511.1	1509.0
147.5°	1570.5	1569.9	1569.2	1568.7	1568.1	1567.4	1566.5	1565.1	1563.8	1562.5	1561.0
150°	1600.3	1599.7	1599.1	1598.6	1597.9	1597.3	1596.6	1595.7	1594.8	1593.9	1593.0
152.5°	1626.4	1625.3	1625.0	1624.6	1624.3	1623.9	1623.5	1623.1	1622.6	1622.3	1621.8
155°	1662.5	1661.0	1660.7	1660.5	1660.2	1659.8	1660.0	1660.6	1661.2	1661.8	1662.3
157.5°	1694.0	1692.2	1692.6	1692.8	1693.1	1693.4	1693.6	1693.6	1693.7	1693.8	1693.8
160°	1712.2	1710.4	1710.7	1710.9	1711.3	1711.5	1711.8	1712.2	1712.4	1712.7	1713.1
162.5°	1728.4	1726.4	1726.6	1727.0	1727.2	1727.5	1728.0	1728.8	1729.7	1730.4	1731.2
165°	1750.1	1747.7	1748.0	1748.3	1748.6	1748.9	1749.4	1750.3	1751.2	1752.1	1753.0
167.5°	1767.1	1764.8	1764.8	1764.8	1764.8	1764.8	1765.3	1766.6	1767.7	1768.9	1770.0
170°	1776.7	1774.3	1774.3	1774.3	1774.3	1774.3	1775.0	1776.1	1777.3	1778.5	1779.7
172.5°	1783.2	1780.7	1780.5	1780.3	1780.0	1779.8	1780.4	1781.8	1783.2	1784.7	1786.1
175°	1791.1	1789.0	1788.7	1788.4	1788.1	1787.8	1788.4	1789.9	1791.4	1792.9	1794.3
177.5°	1794.1	1792.2	1792.0	1791.7	1791.5	1791.3	1791.7	1793.0	1794.1	1795.3	1796.4
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



TEST NUMBER: P332204-940

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1260.2	1262.7	1270.9	1276.8	1283.5	1287.4	1291.3	1294.2	1298.1	1299.0	1313.1
5°	1265.8	1277.9	1299.1	1314.9	1334.4	1355.6	1370.1	1376.8	1394.5	1409.0	1438.2
7.5°	1264.2	1290.0	1322.1	1355.3	1391.1	1424.1	1452.7	1486.7	1510.8	1547.1	1582.9
10°	1262.8	1297.4	1338.6	1381.1	1430.8	1476.9	1518.2	1564.3	1602.6	1653.0	1696.0
12.5°	1258.4	1300.3	1357.5	1407.7	1468.2	1531.8	1593.0	1652.2	1686.0	1770.0	1809.6
15°	1247.6	1297.4	1369.0	1445.4	1528.6	1603.7	1681.4	1743.4	1843.4	1916.9	1963.6
17.5°	1227.0	1296.6	1381.5	1473.8	1574.9	1674.0	1762.0	1856.0	1962.1	2051.0	2145.6
20°	1217.3	1293.7	1388.4	1490.3	1595.3	1707.5	1807.7	1920.6	2036.4	2123.8	2245.1
22.5°	1199.3	1285.9	1387.9	1501.5	1613.7	1729.8	1847.0	1960.8	2094.7	2215.1	2330.6
25°	1169.9	1267.0	1372.6	1499.4	1631.1	1747.6	1887.8	2038.9	2178.4	2333.2	2448.5
27.5°	1139.1	1242.7	1348.5	1466.5	1608.1	1746.4	1922.7	2093.5	2264.1	2397.7	2483.1
30°	1115.3	1216.0	1325.3	1444.2	1584.4	1748.8	1946.0	2132.3	2298.6	2413.2	2461.2
32.5°	1089.6	1191.8	1288.3	1413.1	1562.5	1747.3	1960.6	2155.1	2300.5	2376.9	2367.5
35°	1049.2	1134.7	1228.8	1348.9	1524.9	1736.7	1969.1	2157.1	2246.4	2230.0	2106.2
37.5°	990.9	1062.8	1155.5	1287.0	1481.2	1714.2	1952.0	2093.2	2087.4	1954.0	1774.7
40°	954.5	1015.7	1105.0	1243.3	1447.2	1699.7	1925.4	2017.0	1939.4	1753.0	1538.2
42.5°	907.0	963.3	1052.6	1194.8	1409.9	1670.0	1874.4	1900.9	1749.0	1534.6	1337.7
45°	833.1	882.9	975.1	1122.0	1353.8	1605.6	1750.0	1685.1	1480.6	1259.1	1109.2
47.5°	753.9	805.6	894.3	1045.2	1272.7	1508.6	1577.4	1439.3	1229.4	1049.7	912.1
50°	703.9	753.7	840.4	992.7	1217.8	1429.1	1457.5	1279.2	1086.2	928.4	815.6
52.5°	653.4	700.3	785.6	938.3	1153.8	1336.8	1319.2	1137.4	959.9	825.5	736.9
55°	578.3	622.6	703.9	847.1	1043.1	1188.1	1124.4	950.8	804.1	699.6	632.3
57.5°	511.0	553.5	623.7	753.0	923.5	1023.1	942.0	795.8	679.0	598.7	548.4
60°	465.4	503.0	569.8	689.9	838.0	913.8	833.7	704.5	606.2	541.9	497.0
62.5°	422.2	455.0	516.8	625.9	754.5	818.2	737.2	627.8	544.0	487.1	448.9
65°	356.8	386.6	441.1	526.1	631.7	674.1	604.4	515.8	450.8	408.4	382.9
67.5°	297.1	322.4	369.5	436.4	514.1	545.0	491.9	423.3	374.4	340.3	320.0
70°	257.3	279.1	316.1	373.8	444.2	467.9	418.1	361.7	325.8	298.5	279.7
72.5°	223.8	239.8	273.4	318.0	376.7	395.5	360.8	311.2	277.8	257.3	242.4
75°	170.5	183.9	205.7	241.5	282.1	293.1	267.0	236.0	213.6	199.0	187.5
77.5°	123.0	132.8	148.6	170.7	198.8	208.7	192.1	171.5	155.1	145.3	138.8
80°	92.8	100.8	114.0	132.2	149.3	154.7	145.0	129.2	117.7	112.3	106.8
82.5°	68.6	73.0	81.1	93.5	105.1	111.6	103.3	93.8	87.7	82.7	80.6
85°	34.6	37.0	40.7	45.5	52.8	55.2	52.2	49.8	46.1	43.1	43.1
87.5°	13.5	14.1	16.1	17.7	20.3	22.6	22.8	22.6	22.9	22.6	22.4
90°	4.3	7.2	10.3	13.2	16.6	20.4	24.3	28.2	32.0	33.2	34.3
92.5°	24.0	23.1	22.3	21.5	22.5	25.4	28.4	31.2	34.2	36.0	37.9
95°	69.2	57.1	44.9	32.7	28.3	31.6	34.8	38.1	41.3	43.4	45.5
97.5°	158.0	152.6	147.0	141.6	128.2	106.9	85.6	64.3	42.9	45.3	47.7
100°	231.2	237.1	243.1	249.0	228.8	182.6	136.4	90.2	44.0	46.4	48.7
102.5°	300.0	304.3	308.4	312.7	289.6	239.2	188.7	138.2	87.7	80.3	73.0
105°	400.6	403.8	407.1	410.3	398.6	371.9	345.3	318.6	291.9	239.5	187.1
107.5°	507.0	509.6	512.3	514.9	518.3	522.5	526.7	530.9	535.1	496.7	458.2
110°	578.3	580.6	583.0	585.4	588.2	591.5	594.7	598.0	601.2	591.5	581.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	646.3	648.5	650.6	652.6	655.4	658.6	661.9	665.1	668.4	668.6	668.8
115°	747.0	748.8	750.6	752.3	754.6	757.2	759.8	762.5	765.2	768.1	771.2
117.5°	845.3	847.4	849.6	851.9	853.6	855.0	856.3	857.6	859.1	861.4	863.8
120°	906.5	909.2	911.9	914.5	916.3	917.1	918.0	918.9	919.8	922.2	924.6
122.5°	967.9	970.1	972.2	974.5	976.2	977.2	978.4	979.5	980.6	982.3	983.9
125°	1052.8	1055.3	1057.6	1060.0	1061.8	1062.9	1064.1	1065.3	1066.5	1067.1	1067.6
127.5°	1135.0	1137.4	1139.7	1142.1	1144.0	1145.4	1146.8	1148.3	1149.7	1150.6	1151.6
130°	1186.2	1188.6	1190.9	1193.3	1195.1	1196.2	1197.4	1198.6	1199.8	1201.0	1202.1
132.5°	1235.2	1237.6	1239.9	1242.3	1244.0	1244.9	1245.9	1246.8	1247.8	1248.9	1250.2
135°	1309.6	1311.3	1313.1	1314.9	1316.3	1317.5	1318.8	1319.9	1321.1	1322.0	1322.9
137.5°	1374.0	1376.3	1378.5	1380.7	1382.2	1382.9	1383.5	1384.2	1384.8	1386.3	1387.7
140°	1416.2	1418.0	1419.8	1421.6	1422.8	1423.7	1424.6	1425.5	1426.4	1427.6	1428.8
142.5°	1455.6	1457.4	1459.2	1461.0	1462.3	1463.2	1464.1	1465.0	1465.9	1466.8	1467.8
145°	1511.1	1513.2	1515.3	1517.3	1518.7	1519.3	1519.8	1520.5	1521.1	1521.6	1522.2
147.5°	1562.5	1563.8	1565.1	1566.5	1567.4	1568.1	1568.7	1569.2	1569.9	1570.5	1571.0
150°	1593.9	1594.8	1595.7	1596.6	1597.3	1597.9	1598.6	1599.1	1599.7	1600.3	1600.9
152.5°	1622.3	1622.6	1623.1	1623.5	1623.9	1624.3	1624.6	1625.0	1625.3	1626.4	1627.5
155°	1661.8	1661.2	1660.6	1660.0	1659.8	1660.2	1660.5	1660.7	1661.0	1662.5	1664.0
157.5°	1693.8	1693.7	1693.6	1693.6	1693.4	1693.1	1692.8	1692.6	1692.2	1694.0	1695.8
160°	1712.7	1712.4	1712.2	1711.8	1711.5	1711.3	1710.9	1710.7	1710.4	1712.2	1714.0
162.5°	1730.4	1729.7	1728.8	1728.0	1727.5	1727.2	1727.0	1726.6	1726.4	1728.4	1730.4
165°	1752.1	1751.2	1750.3	1749.4	1748.9	1748.6	1748.3	1748.0	1747.7	1750.1	1752.4
167.5°	1768.9	1767.7	1766.6	1765.3	1764.8	1764.8	1764.8	1764.8	1764.8	1767.1	1769.5
170°	1778.5	1777.3	1776.1	1775.0	1774.3	1774.3	1774.3	1774.3	1774.3	1776.7	1779.1
172.5°	1784.7	1783.2	1781.8	1780.4	1779.8	1780.0	1780.3	1780.5	1780.7	1783.2	1785.5
175°	1792.9	1791.4	1789.9	1788.4	1787.8	1788.1	1788.4	1788.7	1789.0	1791.1	1793.1
177.5°	1795.3	1794.1	1793.0	1791.7	1791.3	1791.5	1791.7	1792.0	1792.2	1794.1	1796.0
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1317.9	1318.5	1323.8	1327.7	1325.7	1328.2	1329.1
5°	1439.9	1461.8	1473.3	1481.8	1482.4	1483.0	1487.9
7.5°	1612.8	1636.3	1653.4	1679.4	1687.1	1696.0	1693.4
10°	1739.1	1773.7	1803.4	1819.2	1836.2	1861.1	1841.0
12.5°	1857.1	1918.3	1963.6	1988.2	2004.1	2009.1	1999.3
15°	2051.6	2131.7	2174.8	2173.5	2228.2	2251.8	2214.8
17.5°	2230.0	2303.9	2363.1	2393.4	2439.0	2449.1	2444.4
20°	2339.2	2419.9	2466.0	2518.2	2541.9	2563.1	2566.8
22.5°	2433.4	2505.9	2555.4	2598.8	2618.6	2628.7	2634.7
25°	2530.3	2587.4	2617.2	2632.3	2637.8	2636.5	2628.7
27.5°	2523.7	2528.1	2495.3	2463.2	2434.4	2402.0	2390.8
30°	2458.2	2407.2	2316.1	2264.6	2188.7	2128.7	2152.9
32.5°	2285.8	2184.3	2082.1	1969.4	1876.1	1849.5	1822.8
35°	1950.9	1772.5	1668.1	1546.8	1498.2	1449.7	1416.3
37.5°	1578.3	1440.3	1316.5	1237.2	1188.5	1157.8	1141.3
40°	1364.7	1240.3	1138.4	1074.1	1037.1	1002.5	997.6
42.5°	1194.3	1078.6	1001.9	950.7	915.2	900.4	889.8
45°	978.2	897.4	845.9	809.5	785.8	776.7	764.6
47.5°	828.0	770.9	732.2	707.4	689.6	682.8	681.8
50°	744.0	696.6	668.1	648.6	634.7	632.3	622.6
52.5°	680.8	639.8	617.6	600.7	590.6	583.7	580.9
55°	591.0	563.7	543.7	534.0	526.1	519.4	519.4
57.5°	517.1	494.3	481.1	472.8	470.4	465.7	462.6
60°	471.4	452.1	441.8	434.4	429.6	430.3	424.7
62.5°	426.9	414.2	404.4	397.1	391.3	391.4	391.7
65°	363.5	353.7	346.5	344.0	340.5	336.2	337.4
67.5°	308.0	298.9	293.2	289.1	287.8	285.5	289.1
70°	268.2	261.5	257.3	253.6	252.4	253.1	256.1
72.5°	231.8	227.0	224.3	222.6	219.9	220.0	222.1
75°	182.0	178.4	175.9	174.2	173.5	173.5	173.5
77.5°	133.8	132.9	131.8	129.1	129.2	130.0	130.1
80°	105.6	103.8	103.2	101.9	100.1	98.9	101.9
82.5°	78.9	77.0	76.4	76.2	73.4	73.2	75.7
85°	42.4	40.7	41.3	40.7	40.7	40.0	40.0
87.5°	22.1	21.9	21.6	22.2	21.8	21.5	22.6
90°	35.6	36.7	37.6	38.3	38.8	39.4	39.9
92.5°	39.9	41.7	42.8	43.2	43.5	43.9	44.2
95°	47.5	49.6	50.6	50.6	50.6	50.6	50.6
97.5°	50.0	52.4	53.8	54.0	54.3	54.7	54.9
100°	51.1	53.5	54.8	55.1	55.4	55.7	56.0
102.5°	65.7	58.3	54.9	55.5	56.0	56.5	57.1
105°	134.6	82.2	56.3	56.9	57.5	58.1	58.7
107.5°	419.7	381.3	342.3	302.8	263.2	223.7	184.2
110°	571.9	562.1	536.0	493.7	451.3	408.9	366.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	669.0	669.1	664.8	655.8	646.8	637.9	628.9
115°	774.1	777.0	779.1	780.3	781.5	782.7	783.9
117.5°	866.1	868.5	869.9	870.0	870.3	870.6	870.8
120°	926.9	929.3	930.5	930.5	930.5	930.5	930.5
122.5°	985.6	987.3	988.2	988.5	988.6	988.9	989.2
125°	1068.3	1068.8	1069.4	1070.1	1070.6	1071.2	1071.8
127.5°	1152.5	1153.4	1153.6	1153.1	1152.4	1151.8	1151.3
130°	1203.4	1204.5	1204.8	1204.3	1203.6	1203.0	1202.5
132.5°	1251.3	1252.5	1252.7	1251.9	1251.1	1250.2	1249.4
135°	1323.7	1324.6	1324.6	1323.7	1322.9	1322.0	1321.1
137.5°	1389.1	1390.5	1390.9	1390.4	1389.7	1389.1	1388.6
140°	1429.9	1431.1	1431.5	1430.8	1430.3	1429.7	1429.1
142.5°	1468.7	1469.6	1469.7	1468.9	1468.0	1467.2	1466.4
145°	1522.9	1523.4	1523.8	1523.8	1523.8	1523.8	1523.8
147.5°	1571.6	1572.3	1571.8	1570.5	1569.1	1567.7	1566.4
150°	1601.5	1602.0	1602.0	1601.1	1600.2	1599.3	1598.4
152.5°	1628.5	1629.6	1629.4	1628.1	1626.7	1625.3	1624.0
155°	1665.4	1667.0	1666.8	1665.0	1663.2	1661.4	1659.7
157.5°	1697.5	1699.3	1699.1	1696.7	1694.4	1692.1	1689.8
160°	1715.7	1717.4	1717.3	1715.2	1713.2	1711.1	1709.1
162.5°	1732.4	1734.4	1734.5	1732.7	1730.8	1729.0	1727.2
165°	1754.8	1757.2	1757.3	1755.2	1753.2	1751.1	1749.0
167.5°	1771.8	1774.2	1774.2	1771.8	1769.5	1767.1	1764.8
170°	1781.5	1783.9	1783.9	1781.5	1779.1	1776.7	1774.3
172.5°	1787.9	1790.2	1790.1	1787.5	1784.9	1782.3	1779.7
175°	1795.2	1797.3	1797.2	1794.7	1792.4	1790.0	1787.7
177.5°	1797.9	1799.8	1799.6	1797.2	1794.8	1792.4	1790.1
180°	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3	1794.3

(END OF REPORT)