

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: P331603-840

Luminaire Tested: **S122DIW-S1005D1240U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331603-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D1240U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

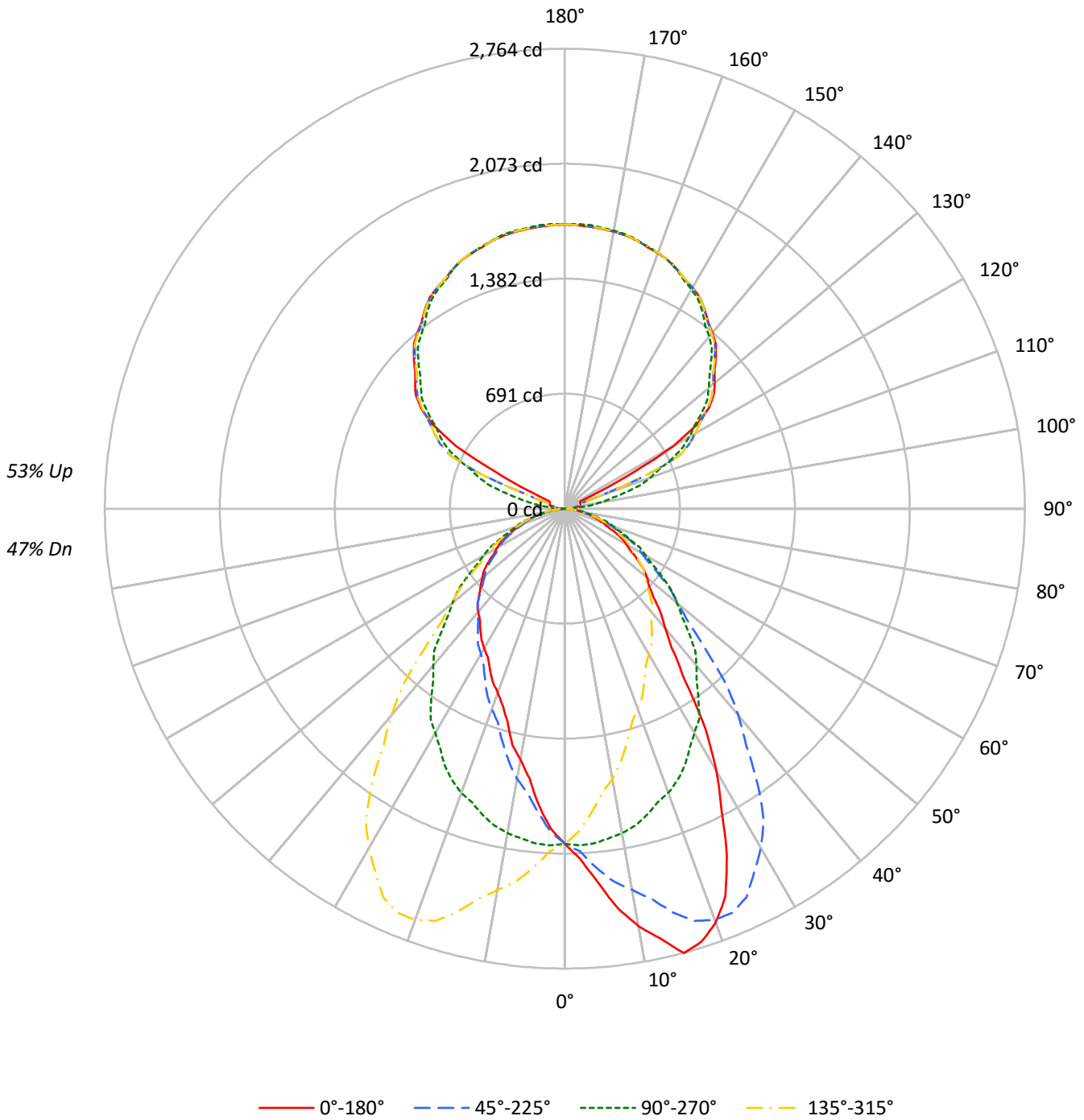
Lumens per Lamp: N/A
Luminaire Lumens: 9449.9 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47				47
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41				41
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	39	35				35
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30				30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26				26
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	28	26	23				23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	23	20				20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	25	26	23	21	18				18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16				16
9	51	39	32	27	47	37	30	25	32	26	23	27	23	20	22	19	17	15				15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32513	32513	32513	32513
5°	36451	32725	29000	32725
10°	41769	32455	25097	32455
15°	46208	31861	22173	31861
20°	45505	31223	20213	31223
25°	41031	30375	18971	30375
30°	33907	29015	18066	29015
35°	24711	27595	17420	27595
40°	19736	25918	17062	25918
45°	17249	23980	16575	23980
50°	16211	22102	16252	22102
55°	14945	20194	15817	20194
60°	13695	18167	15145	18167
65°	12478	16351	14487	16351
70°	11325	14578	13520	14578
75°	10044	12601	11977	12601
80°	8638	10432	9642	10432
85°	7744	7744	5743	7744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	2.0
10°-20°	557.5	5.9
20°-30°	809.1	8.6
30°-40°	853.9	9.0
40°-50°	756.0	8.0
50°-60°	603.3	6.4
60°-70°	410.1	4.3
70°-80°	210.2	2.2
80°-90°	54.9	0.6
90°-100°	56.9	0.6
100°-110°	208.8	2.2
110°-120°	558.2	5.9
120°-130°	921.5	9.8
130°-140°	980.0	10.4
140°-150°	910.9	9.6
150°-160°	732.3	7.7
160°-170°	471.9	5.0
170°-180°	162.4	1.7
0°-30°	1558.5	16.5
0°-40°	2412.3	25.5
0°-60°	3771.7	39.9
0°-90°	4446.9	47.1
90°-120°	824.0	8.7
90°-150°	3636.4	38.5
90°-180°	5003.0	52.9
0°-180°	9449.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2014	2014	2014	2014	2014	
5°	2249	2019	1789	2019	2249	225
15°	2764	1906	1326	1906	2764	763
25°	2303	1705	1065	1705	2303	1041
35°	1254	1400	884	1400	1254	815
45°	755	1050	726	1050	755	594
55°	531	717	562	717	531	476
65°	327	428	379	428	327	325
75°	161	202	192	202	161	172
85°	42	42	31	42	42	47
90°	33	1	33	1	33	17
95°	53	80	53	80	53	50
105°	94	376	94	376	94	98
115°	101	710	101	710	101	254
125°	1056	1004	1056	1004	1056	914
135°	1284	1243	1284	1243	1284	989
145°	1464	1442	1464	1442	1464	915
155°	1589	1587	1589	1587	1589	733
165°	1669	1673	1669	1673	1669	471
175°	1701	1711	1701	1711	1701	162
180°	1707	1707	1707	1707	1707	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2106.6	2107.2	2108.4	2098.5	2097.3	2097.3	2088.6	2081.2	2072.5	2060.7	2062.0
5°	2249.0	2257.5	2260.6	2251.3	2237.4	2235.8	2222.7	2201.0	2180.9	2164.6	2153.0
7.5°	2418.9	2422.4	2414.8	2402.6	2392.2	2373.6	2349.1	2325.1	2291.6	2260.8	2237.9
10°	2547.7	2552.3	2539.2	2521.4	2506.7	2485.1	2449.4	2413.1	2368.9	2326.4	2292.3
12.5°	2645.5	2657.0	2640.1	2637.8	2612.6	2582.8	2540.4	2522.0	2459.9	2400.7	2364.2
15°	2764.4	2763.6	2765.2	2750.5	2731.9	2727.2	2682.4	2633.6	2546.2	2511.3	2450.9
17.5°	2730.1	2741.8	2747.2	2747.0	2746.6	2743.7	2729.3	2698.5	2654.6	2598.2	2528.5
20°	2648.4	2663.8	2666.1	2683.9	2694.0	2707.1	2712.6	2704.0	2677.0	2629.8	2569.4
22.5°	2522.0	2526.4	2533.7	2561.3	2583.1	2616.2	2633.3	2661.9	2651.6	2628.5	2578.1
25°	2303.2	2295.4	2322.5	2336.4	2386.7	2439.3	2477.3	2519.1	2556.3	2578.7	2563.9
27.5°	2040.3	2028.7	2069.3	2106.3	2147.2	2204.1	2263.2	2333.0	2391.1	2463.7	2488.6
30°	1818.7	1825.6	1864.3	1903.8	1965.7	2046.2	2112.7	2189.4	2272.2	2353.5	2409.9
32.5°	1579.7	1606.5	1630.9	1691.4	1746.0	1835.7	1933.2	2029.0	2132.3	2224.7	2312.2
35°	1253.7	1284.6	1318.8	1362.8	1439.5	1528.4	1623.7	1752.9	1893.8	2019.9	2123.6
37.5°	1055.3	1050.4	1069.9	1101.8	1163.8	1235.7	1345.2	1472.9	1638.7	1787.0	1933.2
40°	936.4	933.3	947.3	976.6	1023.9	1076.5	1172.5	1284.6	1438.7	1619.8	1793.9
42.5°	854.7	856.6	864.3	885.0	917.4	960.7	1032.6	1128.0	1269.1	1439.7	1626.8
45°	755.4	760.7	769.3	779.3	797.9	833.5	873.7	941.9	1053.3	1195.7	1379.9
47.5°	683.8	684.0	692.7	701.5	712.5	732.6	765.4	808.1	886.8	1002.7	1161.0
50°	645.4	640.1	646.2	653.2	664.8	678.7	700.3	740.6	793.2	886.9	1019.3
52.5°	598.3	598.5	604.1	606.7	617.1	631.1	650.9	678.7	726.4	799.6	908.4
55°	530.9	534.7	537.9	542.5	551.8	561.9	577.3	595.9	633.1	688.0	768.5
57.5°	467.5	468.7	471.8	480.6	486.5	495.7	510.5	527.4	551.5	592.2	652.7
60°	424.1	424.1	430.3	434.1	441.9	451.2	462.8	479.1	500.7	534.0	582.8
62.5°	384.5	383.8	386.4	392.6	398.6	407.3	418.8	432.6	453.0	482.6	522.7
65°	326.6	325.1	329.7	331.2	337.4	346.0	355.3	369.9	386.2	407.9	443.4
67.5°	270.8	272.8	275.2	278.1	281.6	290.5	296.7	307.1	320.8	338.8	362.9
70°	239.9	239.9	239.9	242.3	246.9	251.6	257.7	266.2	279.4	294.9	316.5
72.5°	205.2	207.7	210.2	208.8	214.7	217.4	224.9	229.7	242.3	252.2	271.4
75°	161.0	161.0	161.0	164.8	167.1	169.5	174.1	178.7	185.0	197.3	207.4
77.5°	120.1	119.8	120.6	121.5	124.0	126.7	128.2	132.3	138.0	143.8	152.3
80°	92.9	94.4	95.2	96.7	96.7	98.3	99.1	104.5	108.4	112.2	117.6
82.5°	71.8	72.1	72.3	72.6	73.2	74.1	76.1	77.9	79.3	82.5	86.6
85°	41.8	41.0	41.0	42.5	41.8	41.8	43.3	44.8	44.8	45.6	48.0
87.5°	22.7	22.6	23.1	22.4	22.3	22.7	22.5	21.6	21.9	22.3	22.4
90°	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5	26.1	24.7	22.5
92.5°	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1	29.4	28.7	27.6
95°	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9	49.6	48.2	46.3
97.5°	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7	65.5	64.5	60.1
100°	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8	72.6	70.4	65.7
102.5°	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1	75.2	72.4	111.4
105°	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4	78.4	75.3	150.3
107.5°	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4	102.4	105.5	195.4
110°	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3	188.7	216.2	295.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0	445.1	545.2	564.9
115°	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0	635.1	762.2	755.4
117.5°	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7	813.4	844.2	839.5
120°	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1	908.8	905.4	900.6
122.5°	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8	965.7	963.8	958.5
125°	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7	1045.8	1043.9	1038.6
127.5°	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6	1118.8	1116.0	1112.1
130°	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5	1165.5	1162.5	1159.4
132.5°	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1	1211.4	1208.9	1205.9
135°	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1	1276.4	1273.6	1271.1
137.5°	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5	1336.9	1334.1	1331.3
140°	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7	1376.1	1373.7	1370.7
142.5°	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7	1412.5	1410.3	1406.7
145°	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2	1463.3	1461.4	1456.7
147.5°	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2	1507.8	1506.3	1501.8
150°	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3	1534.7	1533.1	1528.6
152.5°	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0	1559.4	1557.7	1553.6
155°	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4	1592.8	1591.1	1587.8
157.5°	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6	1620.6	1618.8	1616.5
160°	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9	1637.2	1635.6	1634.0
162.5°	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2	1652.2	1650.4	1649.0
165°	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9	1668.1
167.5°	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3	1686.4	1684.5	1683.7
170°	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3	1694.4	1692.4	1691.8
172.5°	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1	1700.2	1698.3	1697.8
175°	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6	1706.7	1704.8	1704.2
177.5°	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3	1707.8	1706.3	1706.0
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2066.4	2061.4	2058.3	2047.2	2037.2	2027.3	2024.3	2025.5	2011.9	1998.8	1993.3
5°	2146.9	2131.3	2116.7	2095.8	2071.0	2043.9	2029.9	2019.1	1992.1	1962.7	1945.6
7.5°	2219.0	2196.9	2168.5	2129.2	2093.1	2050.5	2023.5	1999.4	1959.8	1918.3	1893.0
10°	2262.9	2232.7	2196.4	2148.4	2104.3	2052.4	2016.0	1979.6	1933.2	1883.7	1852.7
12.5°	2300.7	2260.0	2224.2	2162.6	2110.4	2045.6	2002.5	1951.2	1902.3	1843.4	1813.1
15°	2390.7	2315.5	2247.5	2177.8	2113.5	2023.0	1975.0	1906.1	1841.9	1769.2	1734.3
17.5°	2460.1	2375.7	2268.5	2180.0	2105.1	2004.8	1934.3	1851.8	1775.8	1692.7	1645.4
20°	2499.7	2403.0	2287.6	2182.4	2092.6	1978.1	1901.5	1817.2	1728.2	1634.5	1583.5
22.5°	2523.2	2421.6	2307.5	2173.1	2067.9	1956.4	1860.0	1767.6	1677.4	1576.3	1522.8
25°	2530.7	2437.8	2317.1	2165.5	2036.9	1910.8	1794.7	1705.0	1595.8	1501.4	1423.2
27.5°	2493.9	2427.3	2311.2	2150.8	2001.1	1853.7	1724.2	1622.6	1507.4	1404.9	1326.4
30°	2448.6	2409.9	2296.9	2136.0	1972.7	1814.0	1671.6	1556.3	1441.8	1338.1	1257.6
32.5°	2378.7	2370.4	2271.0	2115.0	1942.4	1763.9	1616.6	1500.0	1373.1	1271.2	1194.5
35°	2241.3	2278.4	2215.7	2067.9	1885.2	1692.5	1533.1	1400.0	1268.5	1170.9	1098.9
37.5°	2057.1	2149.3	2132.9	1999.0	1808.2	1614.9	1438.9	1299.7	1174.4	1075.9	1005.3
40°	1930.2	2047.8	2064.8	1946.4	1753.7	1554.8	1368.3	1229.7	1107.4	1017.7	946.4
42.5°	1793.9	1931.4	1978.1	1883.2	1694.3	1491.7	1305.1	1161.6	1040.6	953.3	890.2
45°	1565.6	1747.5	1831.9	1777.7	1595.1	1387.7	1195.7	1050.2	940.3	858.3	809.5
47.5°	1352.2	1551.0	1664.4	1645.2	1484.7	1279.3	1089.5	949.9	842.9	777.5	733.9
50°	1201.1	1405.4	1542.4	1548.6	1405.4	1201.8	1011.5	879.9	781.6	720.5	684.9
52.5°	1069.9	1264.9	1414.2	1447.0	1316.9	1121.4	941.5	810.6	724.1	667.9	636.0
55°	898.5	1063.4	1229.0	1289.3	1184.9	999.2	832.7	717.4	636.1	597.4	569.6
57.5°	747.0	884.4	1037.3	1104.1	1039.7	880.7	724.7	624.5	558.7	524.7	503.3
60°	667.1	775.5	911.7	991.4	935.6	794.1	657.8	562.6	508.5	478.3	458.2
62.5°	592.8	688.8	804.0	876.9	846.5	713.0	591.0	507.0	460.2	431.8	417.3
65°	489.1	564.9	654.0	721.2	701.1	599.8	500.0	428.0	390.8	368.4	356.8
67.5°	402.7	457.6	519.3	578.2	562.0	490.2	410.0	354.0	326.3	306.9	299.9
70°	348.3	390.0	445.0	492.2	479.1	420.2	356.8	308.8	284.8	268.5	261.6
72.5°	296.3	330.6	372.5	411.1	402.2	353.4	300.4	264.2	245.8	230.8	225.1
75°	223.7	249.9	275.5	301.0	298.7	260.8	229.8	202.0	187.3	175.7	173.4
77.5°	165.1	179.9	197.2	212.4	208.1	186.5	162.2	146.2	135.4	127.6	126.4
80°	126.1	134.6	147.0	157.8	152.5	143.2	123.8	112.2	104.5	96.7	93.6
82.5°	91.5	100.0	107.4	113.3	109.2	100.5	88.6	80.7	76.0	70.7	69.5
85°	48.0	52.6	55.7	57.3	55.7	50.3	44.8	41.8	38.0	35.6	34.8
87.5°	22.6	22.2	21.7	22.5	20.0	19.4	16.4	13.8	13.8	13.8	13.2
90°	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2	4.2	7.3	10.3
92.5°	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9	24.6	24.4	24.1
95°	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3	71.2	62.2	53.1
97.5°	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4	133.8	108.3	82.8
100°	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6	181.1	143.4	105.8
102.5°	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9	275.9	267.9	260.0
105°	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6	383.7	392.0	400.2
107.5°	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1	486.7	493.3	500.0
110°	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2	553.0	558.8	564.5



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5	615.6	620.7	625.8
115°	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3	715.0	719.6	724.3
117.5°	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5	804.8	809.9	815.2
120°	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7	868.9	872.9	877.1
122.5°	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1	924.4	928.8	933.1
125°	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3	1007.8	1011.5	1015.0
127.5°	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7	1084.6	1088.5	1092.6
130°	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1	1133.5	1137.9	1142.3
132.5°	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5	1182.2	1186.0	1189.7
135°	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7	1247.1	1251.5	1255.9
137.5°	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7	1310.8	1313.8	1317.0
140°	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2	1352.4	1354.6	1356.8
142.5°	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8	1387.8	1389.8	1391.7
145°	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6	1441.4	1441.1	1440.8
147.5°	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3	1489.2	1488.2	1487.1
150°	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0	1520.0	1518.1	1516.1
152.5°	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6	1546.5	1544.3	1542.2
155°	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4	1584.9	1582.5	1579.9
157.5°	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8	1615.7	1613.6	1611.5
160°	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1634.0	1632.2	1630.6
162.5°	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4	1649.7	1648.1	1646.5
165°	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6	1671.0	1669.3	1667.7
167.5°	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5	1686.8	1685.2	1683.5
170°	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4	1695.7	1694.0	1692.4
172.5°	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2	1701.6	1700.0	1698.3
175°	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9	1709.0	1707.1	1705.2
177.5°	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1	1710.6	1709.1	1707.6
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1987.1	1983.4	1970.3	1963.6	1952.5	1941.9	1935.1	1938.2	1940.7	1939.4	1937.5
5°	1930.2	1915.4	1893.0	1873.6	1859.7	1834.2	1823.3	1818.0	1813.3	1807.9	1802.4
7.5°	1862.3	1839.2	1807.0	1779.4	1753.3	1721.6	1703.5	1692.7	1681.5	1669.3	1658.5
10°	1814.0	1781.5	1747.5	1708.8	1677.9	1649.2	1623.7	1606.6	1591.1	1576.5	1565.6
12.5°	1763.3	1725.9	1683.7	1630.8	1596.7	1555.7	1551.9	1521.9	1497.6	1488.5	1475.8
15°	1682.4	1629.8	1576.5	1513.8	1486.7	1449.6	1426.3	1403.1	1382.2	1367.5	1363.6
17.5°	1590.7	1522.6	1469.5	1424.4	1380.1	1342.0	1320.6	1302.0	1284.9	1265.2	1262.5
20°	1520.8	1461.9	1403.9	1364.4	1318.8	1280.0	1253.7	1235.2	1220.4	1208.8	1198.8
22.5°	1454.5	1390.1	1337.0	1293.8	1248.8	1217.5	1196.8	1178.8	1166.6	1153.8	1144.3
25°	1348.2	1297.9	1239.8	1191.0	1153.9	1133.8	1116.7	1101.3	1093.6	1085.0	1074.2
27.5°	1255.2	1199.2	1144.9	1107.1	1074.5	1056.7	1044.6	1034.1	1026.8	1021.9	1015.7
30°	1189.5	1133.0	1090.5	1053.3	1026.2	1008.5	1000.7	994.5	985.9	982.9	979.8
32.5°	1126.3	1075.4	1039.1	1006.8	981.0	969.4	962.3	956.7	950.1	947.0	940.8
35°	1037.0	994.5	958.9	941.1	920.2	910.1	904.7	897.0	890.8	887.7	886.9
37.5°	953.0	916.0	892.6	869.7	860.9	854.7	847.3	842.0	840.2	839.7	838.9
40°	898.5	868.3	847.5	828.9	825.0	815.7	809.5	804.9	804.9	805.7	804.9
42.5°	849.0	821.9	803.4	787.4	782.8	777.3	771.1	770.8	772.0	774.7	772.0
45°	774.0	754.6	741.4	733.7	725.2	719.7	718.9	721.2	722.1	722.9	725.2
47.5°	704.9	692.1	680.1	671.6	667.9	666.9	666.0	670.0	673.8	675.2	678.7
50°	664.0	649.3	639.2	633.8	630.8	629.1	630.8	635.4	638.4	642.4	644.7
52.5°	618.2	607.8	600.9	596.7	595.4	596.4	596.7	602.0	606.9	608.3	609.4
55°	554.9	547.1	545.6	538.7	541.7	541.0	544.8	548.0	552.6	557.2	558.0
57.5°	491.7	485.5	481.4	482.0	482.9	486.4	489.6	495.0	500.0	504.9	505.3
60°	449.7	446.6	444.2	444.2	445.8	450.4	454.2	459.7	462.8	465.9	468.2
62.5°	411.2	408.2	405.9	407.1	411.1	413.8	418.4	421.3	424.4	427.5	428.6
65°	350.6	349.0	351.3	352.9	353.7	357.6	362.9	365.3	368.4	369.9	375.4
67.5°	294.7	295.0	294.7	296.9	301.3	302.3	307.4	312.9	313.5	316.4	319.9
70°	256.9	258.5	260.0	261.6	265.5	267.0	270.8	273.2	276.3	278.6	280.9
72.5°	222.3	222.6	224.1	223.8	227.0	230.5	233.7	236.0	239.1	242.1	244.4
75°	171.1	171.1	172.6	173.4	177.2	181.1	180.4	181.9	185.0	188.0	189.7
77.5°	124.9	123.2	124.9	125.7	126.9	130.2	130.8	133.0	136.5	135.4	137.1
80°	95.2	92.9	95.2	95.9	95.9	99.9	99.9	101.4	103.7	101.4	103.7
82.5°	68.0	66.9	68.6	68.8	70.0	70.1	71.4	71.7	74.0	72.9	74.0
85°	34.0	33.3	34.0	33.3	34.0	34.8	34.8	34.0	34.0	35.6	33.3
87.5°	13.2	13.1	12.9	13.3	13.1	13.0	12.6	12.9	13.2	12.2	12.4
90°	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5	28.8	30.2	31.2
92.5°	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1	30.8	31.5	32.0
95°	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9	52.3	53.6	54.2
97.5°	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7	67.8	68.9	69.6
100°	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8	77.0	79.2	80.6
102.5°	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1	81.0	83.8	85.6
105°	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4	84.4	87.5	89.5
107.5°	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4	96.2	93.2	92.2
110°	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3	133.8	106.3	93.2



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0	244.9	144.7	95.0
115°	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0	380.9	253.8	180.4
117.5°	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7	751.9	721.2	673.4
120°	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1	915.3	918.7	901.8
122.5°	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8	969.8	971.7	969.1
125°	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7	1049.7	1051.6	1052.9
127.5°	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6	1124.4	1127.2	1128.7
130°	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5	1171.5	1174.5	1175.9
132.5°	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1	1216.6	1219.2	1220.3
135°	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1	1281.8	1284.6	1285.7
137.5°	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5	1342.2	1344.9	1345.7
140°	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7	1381.1	1383.6	1384.1
142.5°	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7	1417.0	1419.3	1419.7
145°	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2	1467.1	1469.1	1469.4
147.5°	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2	1510.7	1512.1	1512.2
150°	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3	1538.0	1539.6	1539.7
152.5°	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0	1562.7	1564.4	1564.3
155°	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4	1596.1	1597.7	1597.4
157.5°	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6	1624.4	1626.3	1626.1
160°	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9	1640.5	1642.1	1642.0
162.5°	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2	1656.0	1657.9	1657.6
165°	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6
167.5°	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3	1690.2	1692.1	1691.9
170°	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3	1698.2	1700.1	1699.8
172.5°	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1	1704.0	1706.0	1705.8
175°	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6	1710.5	1712.4	1712.0
177.5°	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3	1710.8	1712.4	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1931.4	1930.2	1930.2	1924.6	1930.2	1930.2	1931.4	1937.5	1939.4	1940.7	1938.2
5°	1791.6	1789.3	1785.4	1789.3	1785.4	1789.3	1791.6	1802.4	1807.9	1813.3	1818.0
7.5°	1653.4	1644.1	1642.7	1633.6	1642.7	1644.1	1653.4	1658.5	1669.3	1681.5	1692.7
10°	1552.5	1546.3	1545.5	1530.8	1545.5	1546.3	1552.5	1565.6	1576.5	1591.1	1606.6
12.5°	1475.7	1460.9	1463.8	1455.2	1463.8	1460.9	1475.7	1475.8	1488.5	1497.6	1521.9
15°	1342.7	1342.7	1339.7	1326.5	1339.7	1342.7	1342.7	1363.6	1367.5	1382.2	1403.1
17.5°	1247.3	1245.7	1238.3	1241.9	1238.3	1245.7	1247.3	1262.5	1265.2	1284.9	1302.0
20°	1190.2	1185.7	1176.4	1176.4	1176.4	1185.7	1190.2	1198.8	1208.8	1220.4	1235.2
22.5°	1136.4	1136.1	1126.2	1129.3	1126.2	1136.1	1136.4	1144.3	1153.8	1166.6	1178.8
25°	1073.4	1067.2	1062.6	1064.9	1062.6	1067.2	1073.4	1074.2	1085.0	1093.6	1101.3
27.5°	1013.7	1010.3	1010.0	1003.6	1010.0	1010.3	1013.7	1015.7	1021.9	1026.8	1034.1
30°	979.0	971.3	972.8	969.0	972.8	971.3	979.0	979.8	982.9	985.9	994.5
32.5°	939.4	936.5	935.0	931.8	935.0	936.5	939.4	940.8	947.0	950.1	956.7
35°	885.3	886.2	882.2	883.8	882.2	886.2	885.3	886.9	887.7	890.8	897.0
37.5°	838.2	840.6	838.8	839.2	838.8	840.6	838.2	838.9	839.7	840.2	842.0
40°	807.2	807.2	807.2	809.5	807.2	807.2	807.2	804.9	805.7	804.9	804.9
42.5°	777.5	776.3	775.0	774.9	775.0	776.3	777.5	772.0	774.7	772.0	770.8
45°	726.7	729.0	729.8	725.9	729.8	729.0	726.7	725.2	722.9	722.1	721.2
47.5°	680.8	681.1	680.8	684.2	680.8	681.1	680.8	678.7	675.2	673.8	670.0
50°	648.5	647.0	648.5	647.0	648.5	647.0	648.5	644.7	642.4	638.4	635.4
52.5°	614.5	614.8	613.9	613.6	613.9	614.8	614.5	609.4	608.3	606.9	602.0
55°	561.1	562.6	561.9	561.9	561.9	562.6	561.1	558.0	557.2	552.6	548.0
57.5°	505.8	507.3	508.3	504.9	508.3	507.3	505.8	505.3	504.9	500.0	495.0
60°	467.5	471.3	470.5	469.0	470.5	471.3	467.5	468.2	465.9	462.8	459.7
62.5°	432.1	433.5	433.4	433.1	433.4	433.5	432.1	428.6	427.5	424.4	421.3
65°	377.7	379.2	376.9	379.2	376.9	379.2	377.7	375.4	369.9	368.4	365.3
67.5°	319.0	319.5	321.1	322.2	321.1	319.5	319.0	319.9	316.4	313.5	312.9
70°	282.5	281.8	284.1	286.4	284.1	281.8	282.5	280.9	278.6	276.3	273.2
72.5°	244.1	245.8	245.0	246.7	245.0	245.8	244.1	244.4	242.1	239.1	236.0
75°	188.0	190.4	189.7	192.0	189.7	190.4	188.0	189.7	188.0	185.0	181.9
77.5°	135.9	136.2	135.9	137.1	135.9	136.2	135.9	137.1	135.4	136.5	133.0
80°	103.7	102.2	100.6	103.7	100.6	102.2	103.7	103.7	101.4	103.7	101.4
82.5°	72.1	73.0	71.5	71.5	71.5	73.0	72.1	74.0	72.9	74.0	71.7
85°	33.3	32.5	31.0	31.0	31.0	32.5	33.3	33.3	35.6	34.0	34.0
87.5°	12.5	12.0	12.1	11.6	12.1	12.0	12.5	12.4	12.2	13.2	12.9
90°	31.7	32.2	32.8	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5
92.5°	32.3	32.7	33.0	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1
95°	53.9	53.6	53.4	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9
97.5°	69.9	70.3	70.6	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7
100°	81.1	81.7	82.2	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8
102.5°	86.3	87.2	88.0	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1
105°	90.6	91.7	92.8	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4
107.5°	93.3	94.4	95.5	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4
110°	94.3	95.4	96.5	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.9	96.8	97.7	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0
115°	160.6	140.9	121.1	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0
117.5°	608.4	543.5	478.6	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7
120°	864.7	827.7	790.6	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1
122.5°	961.9	954.7	947.6	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8
125°	1053.7	1054.6	1055.4	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7
127.5°	1128.8	1129.0	1129.1	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6
130°	1175.6	1175.4	1175.1	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5
132.5°	1220.1	1219.8	1219.5	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1
135°	1285.2	1284.6	1284.0	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1
137.5°	1344.8	1343.9	1343.0	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5
140°	1382.7	1381.4	1380.0	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7
142.5°	1418.4	1416.9	1415.5	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7
145°	1467.9	1466.6	1465.2	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2
147.5°	1511.1	1509.8	1508.7	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2
150°	1538.4	1537.0	1535.6	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3
152.5°	1562.5	1560.6	1558.8	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0
155°	1595.2	1593.1	1590.8	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4
157.5°	1624.0	1621.8	1619.7	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6
160°	1640.1	1638.2	1636.3	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9
162.5°	1655.3	1652.8	1650.5	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2
165°	1674.7	1672.7	1670.8	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7
167.5°	1689.4	1687.0	1684.5	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3
170°	1697.4	1694.9	1692.4	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3
172.5°	1703.2	1700.8	1698.3	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1
175°	1709.3	1706.6	1703.7	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6
177.5°	1710.2	1708.2	1706.3	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1935.1	1941.9	1952.5	1963.6	1970.3	1983.4	1987.1	1993.3	1998.8	2011.9	2025.5
5°	1823.3	1834.2	1859.7	1873.6	1893.0	1915.4	1930.2	1945.6	1962.7	1992.1	2019.1
7.5°	1703.5	1721.6	1753.3	1779.4	1807.0	1839.2	1862.3	1893.0	1918.3	1959.8	1999.4
10°	1623.7	1649.2	1677.9	1708.8	1747.5	1781.5	1814.0	1852.7	1883.7	1933.2	1979.6
12.5°	1551.9	1555.7	1596.7	1630.8	1683.7	1725.9	1763.3	1813.1	1843.4	1902.3	1951.2
15°	1426.3	1449.6	1486.7	1513.8	1576.5	1629.8	1682.4	1734.3	1769.2	1841.9	1906.1
17.5°	1320.6	1342.0	1380.1	1424.4	1469.5	1522.6	1590.7	1645.4	1692.7	1775.8	1851.8
20°	1253.7	1280.0	1318.8	1364.4	1403.9	1461.9	1520.8	1583.5	1634.5	1728.2	1817.2
22.5°	1196.8	1217.5	1248.8	1293.8	1337.0	1390.1	1454.5	1522.8	1576.3	1677.4	1767.6
25°	1116.7	1133.8	1153.9	1191.0	1239.8	1297.9	1348.2	1423.2	1501.4	1595.8	1705.0
27.5°	1044.6	1056.7	1074.5	1107.1	1144.9	1199.2	1255.2	1326.4	1404.9	1507.4	1622.6
30°	1000.7	1008.5	1026.2	1053.3	1090.5	1133.0	1189.5	1257.6	1338.1	1441.8	1556.3
32.5°	962.3	969.4	981.0	1006.8	1039.1	1075.4	1126.3	1194.5	1271.2	1373.1	1500.0
35°	904.7	910.1	920.2	941.1	958.9	994.5	1037.0	1098.9	1170.9	1268.5	1400.0
37.5°	847.3	854.7	860.9	869.7	892.6	916.0	953.0	1005.3	1075.9	1174.4	1299.7
40°	809.5	815.7	825.0	828.9	847.5	868.3	898.5	946.4	1017.7	1107.4	1229.7
42.5°	771.1	777.3	782.8	787.4	803.4	821.9	849.0	890.2	953.3	1040.6	1161.6
45°	718.9	719.7	725.2	733.7	741.4	754.6	774.0	809.5	858.3	940.3	1050.2
47.5°	666.0	666.9	667.9	671.6	680.1	692.1	704.9	733.9	777.5	842.9	949.9
50°	630.8	629.1	630.8	633.8	639.2	649.3	664.0	684.9	720.5	781.6	879.9
52.5°	596.7	596.4	595.4	596.7	600.9	607.8	618.2	636.0	667.9	724.1	810.6
55°	544.8	541.0	541.7	538.7	545.6	547.1	554.9	569.6	597.4	636.1	717.4
57.5°	489.6	486.4	482.9	482.0	481.4	485.5	491.7	503.3	524.7	558.7	624.5
60°	454.2	450.4	445.8	444.2	444.2	446.6	449.7	458.2	478.3	508.5	562.6
62.5°	418.4	413.8	411.1	407.1	405.9	408.2	411.2	417.3	431.8	460.2	507.0
65°	362.9	357.6	353.7	352.9	351.3	349.0	350.6	356.8	368.4	390.8	428.0
67.5°	307.4	302.3	301.3	296.9	294.7	295.0	294.7	299.9	306.9	326.3	354.0
70°	270.8	267.0	265.5	261.6	260.0	258.5	256.9	261.6	268.5	284.8	308.8
72.5°	233.7	230.5	227.0	223.8	224.1	222.6	222.3	225.1	230.8	245.8	264.2
75°	180.4	181.1	177.2	173.4	172.6	171.1	171.1	173.4	175.7	187.3	202.0
77.5°	130.8	130.2	126.9	125.7	124.9	123.2	124.9	126.4	127.6	135.4	146.2
80°	99.9	99.9	95.9	95.9	95.2	92.9	95.2	93.6	96.7	104.5	112.2
82.5°	71.4	70.1	70.0	68.8	68.6	66.9	68.0	69.5	70.7	76.0	80.7
85°	34.8	34.8	34.0	33.3	34.0	33.3	34.0	34.8	35.6	38.0	41.8
87.5°	12.6	13.0	13.1	13.3	12.9	13.1	13.2	13.2	13.8	13.8	13.8
90°	26.1	24.7	22.5	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2
92.5°	29.4	28.7	27.6	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9
95°	49.6	48.2	46.3	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3
97.5°	65.5	64.5	60.1	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4
100°	72.6	70.4	65.7	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6
102.5°	75.2	72.4	111.4	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9
105°	78.4	75.3	150.3	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6
107.5°	102.4	105.5	195.4	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1
110°	188.7	216.2	295.5	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	445.1	545.2	564.9	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5
115°	635.1	762.2	755.4	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3
117.5°	813.4	844.2	839.5	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5
120°	908.8	905.4	900.6	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7
122.5°	965.7	963.8	958.5	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1
125°	1045.8	1043.9	1038.6	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3
127.5°	1118.8	1116.0	1112.1	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7
130°	1165.5	1162.5	1159.4	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1
132.5°	1211.4	1208.9	1205.9	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5
135°	1276.4	1273.6	1271.1	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7
137.5°	1336.9	1334.1	1331.3	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7
140°	1376.1	1373.7	1370.7	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2
142.5°	1412.5	1410.3	1406.7	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8
145°	1463.3	1461.4	1456.7	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6
147.5°	1507.8	1506.3	1501.8	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3
150°	1534.7	1533.1	1528.6	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0
152.5°	1559.4	1557.7	1553.6	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6
155°	1592.8	1591.1	1587.8	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4
157.5°	1620.6	1618.8	1616.5	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8
160°	1637.2	1635.6	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6
162.5°	1652.2	1650.4	1649.0	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4
165°	1670.8	1668.9	1668.1	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6
167.5°	1686.4	1684.5	1683.7	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5
170°	1694.4	1692.4	1691.8	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4
172.5°	1700.2	1698.3	1697.8	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2
175°	1706.7	1704.8	1704.2	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9
177.5°	1707.8	1706.3	1706.0	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331603-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2024.3	2027.3	2037.2	2047.2	2058.3	2061.4	2066.4	2062.0	2060.7	2072.5	2081.2
5°	2029.9	2043.9	2071.0	2095.8	2116.7	2131.3	2146.9	2153.0	2164.6	2180.9	2201.0
7.5°	2023.5	2050.5	2093.1	2129.2	2168.5	2196.9	2219.0	2237.9	2260.8	2291.6	2325.1
10°	2016.0	2052.4	2104.3	2148.4	2196.4	2232.7	2262.9	2292.3	2326.4	2368.9	2413.1
12.5°	2002.5	2045.6	2110.4	2162.6	2224.2	2260.0	2300.7	2364.2	2400.7	2459.9	2522.0
15°	1975.0	2023.0	2113.5	2177.8	2247.5	2315.5	2390.7	2450.9	2511.3	2546.2	2633.6
17.5°	1934.3	2004.8	2105.1	2180.0	2268.5	2375.7	2460.1	2528.5	2598.2	2654.6	2698.5
20°	1901.5	1978.1	2092.6	2182.4	2287.6	2403.0	2499.7	2569.4	2629.8	2677.0	2704.0
22.5°	1860.0	1956.4	2067.9	2173.1	2307.5	2421.6	2523.2	2578.1	2628.5	2651.6	2661.9
25°	1794.7	1910.8	2036.9	2165.5	2317.1	2437.8	2530.7	2563.9	2578.7	2556.3	2519.1
27.5°	1724.2	1853.7	2001.1	2150.8	2311.2	2427.3	2493.9	2488.6	2463.7	2391.1	2333.0
30°	1671.6	1814.0	1972.7	2136.0	2296.9	2409.9	2448.6	2409.9	2353.5	2272.2	2189.4
32.5°	1616.6	1763.9	1942.4	2115.0	2271.0	2370.4	2378.7	2312.2	2224.7	2132.3	2029.0
35°	1533.1	1692.5	1885.2	2067.9	2215.7	2278.4	2241.3	2123.6	2019.9	1893.8	1752.9
37.5°	1438.9	1614.9	1808.2	1999.0	2132.9	2149.3	2057.1	1933.2	1787.0	1638.7	1472.9
40°	1368.3	1554.8	1753.7	1946.4	2064.8	2047.8	1930.2	1793.9	1619.8	1438.7	1284.6
42.5°	1305.1	1491.7	1694.3	1883.2	1978.1	1931.4	1793.9	1626.8	1439.7	1269.1	1128.0
45°	1195.7	1387.7	1595.1	1777.7	1831.9	1747.5	1565.6	1379.9	1195.7	1053.3	941.9
47.5°	1089.5	1279.3	1484.7	1645.2	1664.4	1551.0	1352.2	1161.0	1002.7	886.8	808.1
50°	1011.5	1201.8	1405.4	1548.6	1542.4	1405.4	1201.1	1019.3	886.9	793.2	740.6
52.5°	941.5	1121.4	1316.9	1447.0	1414.2	1264.9	1069.9	908.4	799.6	726.4	678.7
55°	832.7	999.2	1184.9	1289.3	1229.0	1063.4	898.5	768.5	688.0	633.1	595.9
57.5°	724.7	880.7	1039.7	1104.1	1037.3	884.4	747.0	652.7	592.2	551.5	527.4
60°	657.8	794.1	935.6	991.4	911.7	775.5	667.1	582.8	534.0	500.7	479.1
62.5°	591.0	713.0	846.5	876.9	804.0	688.8	592.8	522.7	482.6	453.0	432.6
65°	500.0	599.8	701.1	721.2	654.0	564.9	489.1	443.4	407.9	386.2	369.9
67.5°	410.0	490.2	562.0	578.2	519.3	457.6	402.7	362.9	338.8	320.8	307.1
70°	356.8	420.2	479.1	492.2	445.0	390.0	348.3	316.5	294.9	279.4	266.2
72.5°	300.4	353.4	402.2	411.1	372.5	330.6	296.3	271.4	252.2	242.3	229.7
75°	229.8	260.8	298.7	301.0	275.5	249.9	223.7	207.4	197.3	185.0	178.7
77.5°	162.2	186.5	208.1	212.4	197.2	179.9	165.1	152.3	143.8	138.0	132.3
80°	123.8	143.2	152.5	157.8	147.0	134.6	126.1	117.6	112.2	108.4	104.5
82.5°	88.6	100.5	109.2	113.3	107.4	100.0	91.5	86.6	82.5	79.3	77.9
85°	44.8	50.3	55.7	57.3	55.7	52.6	48.0	48.0	45.6	44.8	44.8
87.5°	16.4	19.4	20.0	22.5	21.7	22.2	22.6	22.4	22.3	21.9	21.6
90°	4.2	7.3	10.3	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5
92.5°	24.6	24.4	24.1	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1
95°	71.2	62.2	53.1	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9
97.5°	133.8	108.3	82.8	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7
100°	181.1	143.4	105.8	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8
102.5°	275.9	267.9	260.0	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1
105°	383.7	392.0	400.2	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4
107.5°	486.7	493.3	500.0	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4
110°	553.0	558.8	564.5	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	615.6	620.7	625.8	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0
115°	715.0	719.6	724.3	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0
117.5°	804.8	809.9	815.2	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7
120°	868.9	872.9	877.1	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1
122.5°	924.4	928.8	933.1	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8
125°	1007.8	1011.5	1015.0	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7
127.5°	1084.6	1088.5	1092.6	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6
130°	1133.5	1137.9	1142.3	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5
132.5°	1182.2	1186.0	1189.7	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1
135°	1247.1	1251.5	1255.9	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1
137.5°	1310.8	1313.8	1317.0	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5
140°	1352.4	1354.6	1356.8	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7
142.5°	1387.8	1389.8	1391.7	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7
145°	1441.4	1441.1	1440.8	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2
147.5°	1489.2	1488.2	1487.1	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2
150°	1520.0	1518.1	1516.1	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3
152.5°	1546.5	1544.3	1542.2	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0
155°	1584.9	1582.5	1579.9	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4
157.5°	1615.7	1613.6	1611.5	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6
160°	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9
162.5°	1649.7	1648.1	1646.5	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2
165°	1671.0	1669.3	1667.7	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7
167.5°	1686.8	1685.2	1683.5	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3
170°	1695.7	1694.0	1692.4	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3
172.5°	1701.6	1700.0	1698.3	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1
175°	1709.0	1707.1	1705.2	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6
177.5°	1710.6	1709.1	1707.6	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2088.6	2097.3	2097.3	2098.5	2108.4	2107.2	2106.6
5°	2222.7	2235.8	2237.4	2251.3	2260.6	2257.5	2249.0
7.5°	2349.1	2373.6	2392.2	2402.6	2414.8	2422.4	2418.9
10°	2449.4	2485.1	2506.7	2521.4	2539.2	2552.3	2547.7
12.5°	2540.4	2582.8	2612.6	2637.8	2640.1	2657.0	2645.5
15°	2682.4	2727.2	2731.9	2750.5	2765.2	2763.6	2764.4
17.5°	2729.3	2743.7	2746.6	2747.0	2747.2	2741.8	2730.1
20°	2712.6	2707.1	2694.0	2683.9	2666.1	2663.8	2648.4
22.5°	2633.3	2616.2	2583.1	2561.3	2533.7	2526.4	2522.0
25°	2477.3	2439.3	2386.7	2336.4	2322.5	2295.4	2303.2
27.5°	2263.2	2204.1	2147.2	2106.3	2069.3	2028.7	2040.3
30°	2112.7	2046.2	1965.7	1903.8	1864.3	1825.6	1818.7
32.5°	1933.2	1835.7	1746.0	1691.4	1630.9	1606.5	1579.7
35°	1623.7	1528.4	1439.5	1362.8	1318.8	1284.6	1253.7
37.5°	1345.2	1235.7	1163.8	1101.8	1069.9	1050.4	1055.3
40°	1172.5	1076.5	1023.9	976.6	947.3	933.3	936.4
42.5°	1032.6	960.7	917.4	885.0	864.3	856.6	854.7
45°	873.7	833.5	797.9	779.3	769.3	760.7	755.4
47.5°	765.4	732.6	712.5	701.5	692.7	684.0	683.8
50°	700.3	678.7	664.8	653.2	646.2	640.1	645.4
52.5°	650.9	631.1	617.1	606.7	604.1	598.5	598.3
55°	577.3	561.9	551.8	542.5	537.9	534.7	530.9
57.5°	510.5	495.7	486.5	480.6	471.8	468.7	467.5
60°	462.8	451.2	441.9	434.1	430.3	424.1	424.1
62.5°	418.8	407.3	398.6	392.6	386.4	383.8	384.5
65°	355.3	346.0	337.4	331.2	329.7	325.1	326.6
67.5°	296.7	290.5	281.6	278.1	275.2	272.8	270.8
70°	257.7	251.6	246.9	242.3	239.9	239.9	239.9
72.5°	224.9	217.4	214.7	208.8	210.2	207.7	205.2
75°	174.1	169.5	167.1	164.8	161.0	161.0	161.0
77.5°	128.2	126.7	124.0	121.5	120.6	119.8	120.1
80°	99.1	98.3	96.7	96.7	95.2	94.4	92.9
82.5°	76.1	74.1	73.2	72.6	72.3	72.1	71.8
85°	43.3	41.8	41.8	42.5	41.0	41.0	41.8
87.5°	22.5	22.7	22.3	22.4	23.1	22.6	22.7
90°	28.8	30.2	31.2	31.7	32.2	32.8	33.3
92.5°	30.8	31.5	32.0	32.3	32.7	33.0	33.3
95°	52.3	53.6	54.2	53.9	53.6	53.4	53.1
97.5°	67.8	68.9	69.6	69.9	70.3	70.6	70.9
100°	77.0	79.2	80.6	81.1	81.7	82.2	82.8
102.5°	81.0	83.8	85.6	86.3	87.2	88.0	88.7
105°	84.4	87.5	89.5	90.6	91.7	92.8	93.9
107.5°	96.2	93.2	92.2	93.3	94.4	95.5	96.6
110°	133.8	106.3	93.2	94.3	95.4	96.5	97.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	244.9	144.7	95.0	95.9	96.8	97.7	98.6
115°	380.9	253.8	180.4	160.6	140.9	121.1	101.3
117.5°	751.9	721.2	673.4	608.4	543.5	478.6	413.5
120°	915.3	918.7	901.8	864.7	827.7	790.6	753.6
122.5°	969.8	971.7	969.1	961.9	954.7	947.6	940.3
125°	1049.7	1051.6	1052.9	1053.7	1054.6	1055.4	1056.2
127.5°	1124.4	1127.2	1128.7	1128.8	1129.0	1129.1	1129.3
130°	1171.5	1174.5	1175.9	1175.6	1175.4	1175.1	1174.8
132.5°	1216.6	1219.2	1220.3	1220.1	1219.8	1219.5	1219.3
135°	1281.8	1284.6	1285.7	1285.2	1284.6	1284.0	1283.5
137.5°	1342.2	1344.9	1345.7	1344.8	1343.9	1343.0	1342.0
140°	1381.1	1383.6	1384.1	1382.7	1381.4	1380.0	1378.7
142.5°	1417.0	1419.3	1419.7	1418.4	1416.9	1415.5	1414.2
145°	1467.1	1469.1	1469.4	1467.9	1466.6	1465.2	1463.9
147.5°	1510.7	1512.1	1512.2	1511.1	1509.8	1508.7	1507.6
150°	1538.0	1539.6	1539.7	1538.4	1537.0	1535.6	1534.3
152.5°	1562.7	1564.4	1564.3	1562.5	1560.6	1558.8	1557.0
155°	1596.1	1597.7	1597.4	1595.2	1593.1	1590.8	1588.6
157.5°	1624.4	1626.3	1626.1	1624.0	1621.8	1619.7	1617.5
160°	1640.5	1642.1	1642.0	1640.1	1638.2	1636.3	1634.4
162.5°	1656.0	1657.9	1657.6	1655.3	1652.8	1650.5	1648.2
165°	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9
167.5°	1690.2	1692.1	1691.9	1689.4	1687.0	1684.5	1682.0
170°	1698.2	1700.1	1699.8	1697.4	1694.9	1692.4	1689.9
172.5°	1704.0	1706.0	1705.8	1703.2	1700.8	1698.3	1695.9
175°	1710.5	1712.4	1712.0	1709.3	1706.6	1703.7	1701.0
177.5°	1710.8	1712.4	1712.1	1710.2	1708.2	1706.3	1704.2
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2

(END OF REPORT)