

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

Luminaire Tested: **S122DIW-S1005D1240U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331603
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-S1005D1240U835-4F0-1E-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: 9357.6 lumens
Efficiency: N/A
Efficacy: 122.8 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

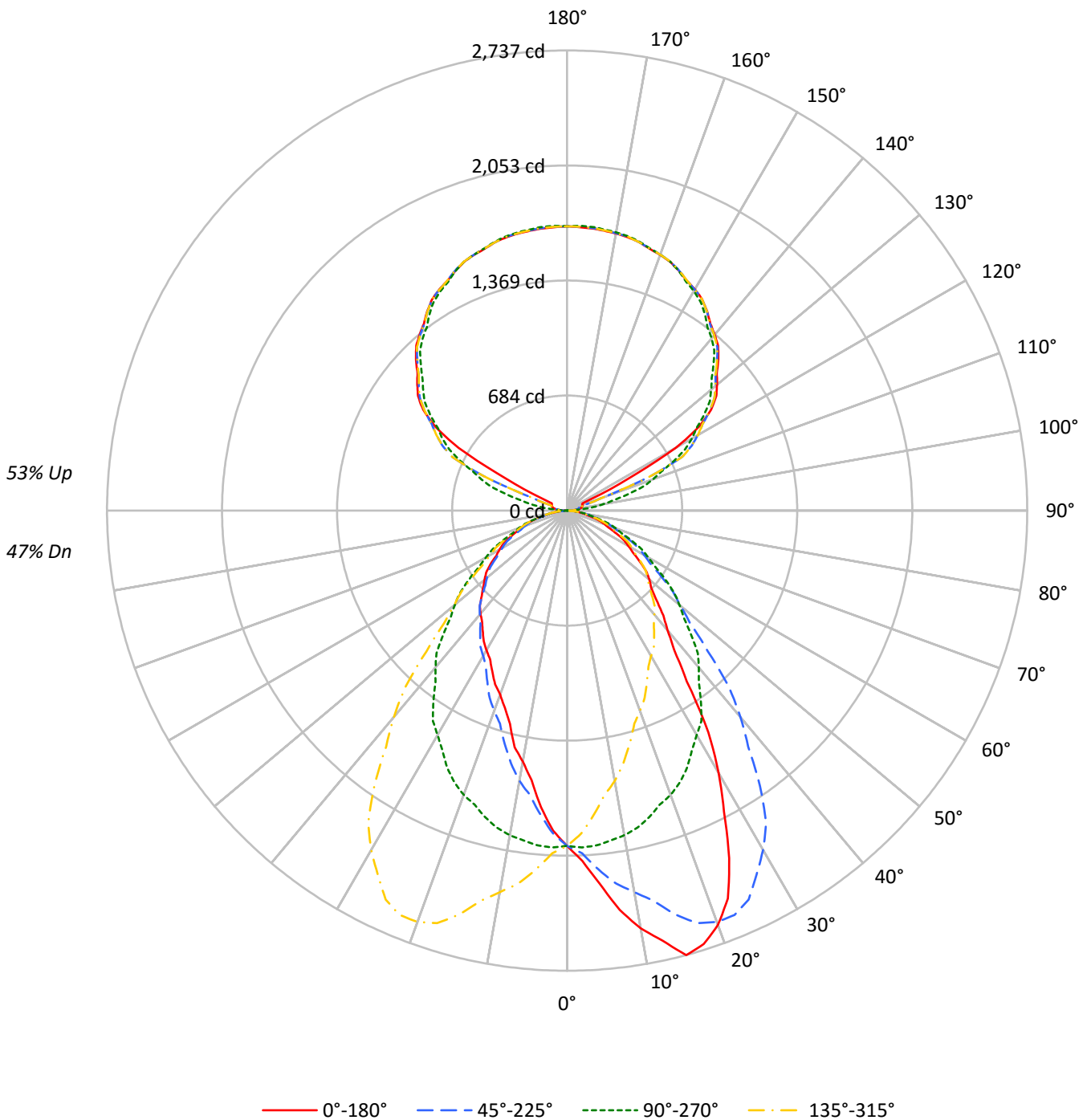
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32195	32195	32195	32195
5°	36094	32405	28716	32405
10°	41361	32139	24851	32139
15°	45757	31550	21956	31550
20°	45060	30917	20015	30917
25°	40631	30077	18786	30077
30°	33575	28732	17889	28732
35°	24471	27325	17251	27325
40°	19545	25665	16895	25665
45°	17080	23745	16413	23745
50°	16053	21886	16093	21886
55°	14798	19997	15662	19997
60°	13563	17990	14996	17990
65°	12355	16191	14346	16191
70°	11216	14436	13388	14436
75°	9944	12477	11859	12477
80°	8554	10330	9549	10330
85°	7669	7669	5687	7669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.0
10°-20°	552.1	5.9
20°-30°	801.2	8.6
30°-40°	845.5	9.0
40°-50°	748.6	8.0
50°-60°	597.4	6.4
60°-70°	406.1	4.3
70°-80°	208.2	2.2
80°-90°	54.4	0.6
90°-100°	56.4	0.6
100°-110°	206.8	2.2
110°-120°	552.8	5.9
120°-130°	912.5	9.8
130°-140°	970.4	10.4
140°-150°	902.0	9.6
150°-160°	725.2	7.7
160°-170°	467.3	5.0
170°-180°	160.9	1.7
0°-30°	1543.2	16.5
0°-40°	2388.7	25.5
0°-60°	3734.8	39.9
0°-90°	4403.4	47.1
90°-120°	816.0	8.7
90°-150°	3600.9	38.5
90°-180°	4954.0	52.9
0°-180°	9357.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1994	1994	1994	1994	1994	
5°	2227	1999	1772	1999	2227	222
15°	2737	1888	1314	1888	2737	755
25°	2281	1688	1054	1688	2281	1031
35°	1242	1386	875	1386	1242	807
45°	748	1040	719	1040	748	588
55°	526	710	556	710	526	471
65°	323	424	376	424	323	322
75°	159	200	190	200	159	170
85°	41	41	31	41	41	46
90°	33	1	33	1	33	17
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	703	100	703	100	251
125°	1046	994	1046	994	1046	905
135°	1271	1231	1271	1231	1271	980
145°	1450	1428	1450	1428	1450	907
155°	1573	1572	1573	1572	1573	726
165°	1653	1656	1653	1656	1653	467
175°	1684	1694	1684	1694	1684	160
180°	1690	1690	1690	1690	1690	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2086.0	2086.6	2087.8	2078.0	2076.8	2076.8	2068.2	2060.9	2052.3	2040.6	2041.9
5°	2227.0	2235.4	2238.5	2229.3	2215.5	2214.0	2201.0	2179.5	2159.6	2143.5	2132.0
7.5°	2395.3	2398.7	2391.2	2379.1	2368.8	2350.4	2326.2	2302.4	2269.2	2238.7	2216.0
10°	2522.8	2527.4	2514.4	2496.8	2482.2	2460.8	2425.5	2389.5	2345.8	2303.7	2269.9
12.5°	2619.7	2631.0	2614.3	2612.0	2587.1	2557.6	2515.6	2497.4	2435.9	2377.2	2341.1
15°	2737.4	2736.6	2738.2	2723.6	2705.2	2700.6	2656.2	2607.9	2521.3	2486.8	2427.0
17.5°	2703.4	2715.0	2720.4	2720.2	2719.8	2716.9	2702.6	2672.1	2628.7	2572.8	2503.8
20°	2622.5	2637.8	2640.1	2657.7	2667.7	2680.7	2686.1	2677.6	2650.8	2604.1	2544.3
22.5°	2497.4	2501.7	2508.9	2536.3	2557.9	2590.6	2607.6	2635.9	2625.7	2602.8	2552.9
25°	2280.7	2273.0	2299.8	2313.6	2363.4	2415.5	2453.1	2494.5	2531.3	2553.5	2538.9
27.5°	2020.4	2008.9	2049.1	2085.7	2126.2	2182.6	2241.1	2310.2	2367.7	2439.6	2464.3
30°	1800.9	1807.8	1846.1	1885.2	1946.5	2026.2	2092.1	2168.0	2250.0	2330.5	2386.4
32.5°	1564.3	1590.8	1615.0	1674.9	1728.9	1817.8	1914.3	2009.2	2111.5	2203.0	2289.6
35°	1241.5	1272.1	1305.9	1349.5	1425.4	1513.5	1607.8	1735.8	1875.3	2000.2	2102.9
37.5°	1045.0	1040.1	1059.4	1091.0	1152.4	1223.6	1332.1	1458.5	1622.7	1769.5	1914.3
40°	927.3	924.2	938.0	967.1	1013.9	1066.0	1161.0	1272.1	1424.6	1604.0	1776.4
42.5°	846.4	848.2	855.9	876.4	908.4	951.3	1022.5	1117.0	1256.7	1425.6	1610.9
45°	748.0	753.3	761.8	771.7	790.1	825.4	865.2	932.7	1043.0	1184.0	1366.4
47.5°	677.1	677.3	685.9	694.6	705.5	725.4	757.9	800.2	878.1	992.9	1149.7
50°	639.1	633.8	639.9	646.8	658.3	672.1	693.5	733.4	785.5	878.2	1009.3
52.5°	592.5	592.7	598.2	600.8	611.1	624.9	644.5	672.1	719.3	791.8	899.5
55°	525.7	529.5	532.6	537.2	546.4	556.4	571.7	590.1	626.9	681.3	761.0
57.5°	462.9	464.1	467.2	475.9	481.7	490.9	505.5	522.2	546.1	586.4	646.3
60°	420.0	420.0	426.1	429.9	437.6	446.8	458.3	474.4	495.8	528.8	577.1
62.5°	380.7	380.1	382.6	388.8	394.7	403.3	414.7	428.4	448.6	477.9	517.6
65°	323.4	321.9	326.5	328.0	334.1	342.6	351.8	366.3	382.4	403.9	439.1
67.5°	268.2	270.1	272.5	275.4	278.8	287.7	293.8	304.1	317.7	335.5	359.4
70°	237.6	237.6	237.6	239.9	244.5	249.1	255.2	263.6	276.7	292.0	313.4
72.5°	203.2	205.7	208.1	206.8	212.6	215.3	222.7	227.5	239.9	249.7	268.7
75°	159.4	159.4	159.4	163.2	165.5	167.8	172.4	177.0	183.2	195.4	205.4
77.5°	118.9	118.6	119.4	120.3	122.8	125.5	126.9	131.0	136.7	142.4	150.8
80°	92.0	93.5	94.3	95.8	95.8	97.3	98.1	103.5	107.3	111.1	116.5
82.5°	71.1	71.4	71.6	71.9	72.5	73.4	75.4	77.1	78.5	81.7	85.8
85°	41.4	40.6	40.6	42.1	41.4	41.4	42.9	44.4	44.4	45.2	47.5
87.5°	22.5	22.4	22.9	22.2	22.1	22.5	22.3	21.4	21.7	22.1	22.2
90°	33.0	32.5	31.9	31.4	30.9	29.9	28.5	27.2	25.8	24.5	22.3
92.5°	33.0	32.7	32.4	32.0	31.7	31.2	30.5	29.8	29.1	28.4	27.3
95°	52.6	52.9	53.1	53.4	53.7	53.1	51.8	50.4	49.1	47.7	45.8
97.5°	70.2	69.9	69.6	69.2	68.9	68.2	67.1	66.0	64.9	63.9	59.5
100°	82.0	81.4	80.9	80.3	79.8	78.4	76.2	74.1	71.9	69.7	65.1
102.5°	87.8	87.1	86.3	85.5	84.8	83.0	80.2	77.3	74.5	71.7	110.3
105°	93.0	91.9	90.8	89.7	88.6	86.6	83.6	80.6	77.6	74.6	148.8
107.5°	95.7	94.6	93.5	92.4	91.3	92.3	95.3	98.4	101.4	104.5	193.5
110°	96.6	95.6	94.5	93.4	92.3	105.3	132.5	159.7	186.9	214.1	292.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.6	96.7	95.9	95.0	94.1	143.3	242.5	341.6	440.8	539.9	559.4
115°	100.3	119.9	139.5	159.0	178.6	251.3	377.2	503.0	628.9	754.8	748.0
117.5°	409.5	473.9	538.2	602.5	666.8	714.2	744.6	775.1	805.5	836.0	831.3
120°	746.2	782.9	819.6	856.3	893.0	909.7	906.4	903.2	899.9	896.6	891.8
122.5°	931.1	938.3	945.4	952.5	959.6	962.2	960.3	958.3	956.3	954.4	949.1
125°	1045.9	1045.1	1044.3	1043.4	1042.6	1041.3	1039.4	1037.5	1035.6	1033.7	1028.5
127.5°	1118.3	1118.1	1118.0	1117.8	1117.7	1116.2	1113.4	1110.6	1107.9	1105.1	1101.2
130°	1163.3	1163.6	1163.9	1164.1	1164.4	1163.0	1160.1	1157.1	1154.1	1151.1	1148.1
132.5°	1207.4	1207.6	1207.9	1208.2	1208.4	1207.3	1204.7	1202.2	1199.6	1197.1	1194.1
135°	1271.0	1271.5	1272.1	1272.6	1273.1	1272.1	1269.3	1266.6	1263.9	1261.2	1258.7
137.5°	1328.9	1329.9	1330.8	1331.7	1332.6	1331.8	1329.1	1326.4	1323.8	1321.1	1318.3
140°	1365.2	1366.5	1367.9	1369.2	1370.6	1370.1	1367.6	1365.2	1362.7	1360.3	1357.3
142.5°	1400.4	1401.7	1403.1	1404.5	1405.8	1405.4	1403.2	1400.9	1398.7	1396.5	1393.0
145°	1449.6	1450.9	1452.3	1453.6	1455.0	1454.7	1452.8	1450.9	1449.0	1447.1	1442.5
147.5°	1492.9	1494.0	1495.1	1496.3	1497.4	1497.3	1495.9	1494.5	1493.1	1491.6	1487.1
150°	1519.3	1520.6	1522.0	1523.4	1524.7	1524.6	1523.0	1521.3	1519.7	1518.1	1513.7
152.5°	1541.8	1543.6	1545.4	1547.2	1549.0	1549.1	1547.4	1545.8	1544.2	1542.5	1538.4
155°	1573.1	1575.3	1577.5	1579.6	1581.8	1582.1	1580.5	1578.8	1577.2	1575.6	1572.3
157.5°	1601.7	1603.9	1606.0	1608.1	1610.2	1610.4	1608.5	1606.7	1604.8	1603.0	1600.7
160°	1618.4	1620.3	1622.2	1624.1	1626.0	1626.1	1624.5	1622.9	1621.2	1619.6	1618.0
162.5°	1632.1	1634.4	1636.7	1639.1	1641.4	1641.7	1639.8	1638.0	1636.1	1634.3	1632.9
165°	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2	1658.3	1656.4	1654.5	1652.6	1651.8
167.5°	1665.6	1668.0	1670.5	1672.9	1675.4	1675.6	1673.7	1671.8	1669.9	1668.0	1667.3
170°	1673.4	1675.9	1678.3	1680.8	1683.2	1683.5	1681.6	1679.7	1677.8	1675.9	1675.3
172.5°	1679.3	1681.7	1684.2	1686.6	1689.1	1689.3	1687.4	1685.5	1683.6	1681.7	1681.2
175°	1684.4	1687.1	1689.9	1692.6	1695.3	1695.7	1693.8	1691.9	1690.0	1688.1	1687.6
177.5°	1687.6	1689.6	1691.5	1693.5	1695.4	1695.7	1694.1	1692.6	1691.1	1689.6	1689.3
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2046.2	2041.3	2038.2	2027.2	2017.3	2007.5	2004.5	2005.7	1992.2	1979.3	1973.8
5°	2125.9	2110.5	2096.0	2075.3	2050.8	2023.9	2010.1	1999.4	1972.6	1943.5	1926.6
7.5°	2197.3	2175.4	2147.3	2108.4	2072.7	2030.5	2003.7	1979.9	1940.7	1899.6	1874.5
10°	2240.8	2210.9	2174.9	2127.4	2083.7	2032.4	1996.3	1960.3	1914.3	1865.3	1834.6
12.5°	2278.2	2237.9	2202.5	2141.5	2089.8	2025.6	1982.9	1932.1	1883.7	1825.4	1795.4
15°	2367.3	2292.9	2225.5	2156.5	2092.9	2003.2	1955.7	1887.5	1823.9	1751.9	1717.4
17.5°	2436.1	2352.5	2246.3	2158.7	2084.5	1985.2	1915.4	1833.7	1758.5	1676.2	1629.3
20°	2475.3	2379.5	2265.3	2161.1	2072.2	1958.8	1882.9	1799.4	1711.3	1618.5	1568.0
22.5°	2498.6	2397.9	2285.0	2151.9	2047.7	1937.3	1841.8	1750.3	1661.0	1560.9	1507.9
25°	2506.0	2414.0	2294.5	2144.3	2017.0	1892.1	1777.2	1688.3	1580.2	1486.7	1409.3
27.5°	2469.5	2403.6	2288.6	2129.8	1981.6	1835.6	1707.4	1606.7	1492.7	1391.2	1313.4
30°	2424.7	2386.4	2274.5	2115.1	1953.4	1796.3	1655.3	1541.1	1427.7	1325.0	1245.3
32.5°	2355.5	2347.2	2248.8	2094.3	1923.4	1746.7	1600.8	1485.3	1359.7	1258.8	1182.8
35°	2219.4	2256.1	2194.1	2047.7	1866.8	1676.0	1518.1	1386.3	1256.1	1159.5	1088.2
37.5°	2037.0	2128.3	2112.1	1979.5	1790.5	1599.1	1424.8	1287.0	1162.9	1065.4	995.5
40°	1911.3	2027.8	2044.6	1927.4	1736.6	1539.6	1354.9	1217.7	1096.6	1007.8	937.2
42.5°	1776.4	1912.5	1958.8	1864.8	1677.7	1477.1	1292.4	1150.3	1030.4	944.0	881.5
45°	1550.3	1730.4	1814.0	1760.3	1579.5	1374.1	1184.0	1039.9	931.1	849.9	801.6
47.5°	1339.0	1535.8	1648.1	1629.1	1470.2	1266.8	1078.9	940.6	834.7	769.9	726.7
50°	1189.4	1391.7	1527.3	1533.5	1391.7	1190.1	1001.6	871.3	774.0	713.5	678.2
52.5°	1059.4	1252.5	1400.4	1432.9	1304.0	1110.4	932.3	802.7	717.0	661.4	629.8
55°	889.7	1053.0	1217.0	1276.7	1173.3	989.4	824.6	710.4	629.9	591.6	564.0
57.5°	739.7	875.8	1027.2	1093.3	1029.5	872.1	717.6	618.4	553.2	519.6	498.4
60°	660.6	767.9	902.8	981.7	926.5	786.3	651.4	557.1	503.5	473.6	453.7
62.5°	587.0	682.1	796.1	868.3	838.2	706.0	585.2	502.0	455.7	427.6	413.2
65°	484.3	559.4	647.6	714.2	694.3	593.9	495.1	423.8	387.0	364.8	353.3
67.5°	398.8	453.1	514.2	572.6	556.5	485.4	406.0	350.5	323.1	303.9	297.0
70°	344.9	386.2	440.7	487.4	474.4	416.1	353.3	305.8	282.0	265.9	259.0
72.5°	293.4	327.4	368.9	407.1	398.3	349.9	297.5	261.6	243.4	228.5	222.9
75°	221.5	247.5	272.8	298.1	295.8	258.3	227.6	200.0	185.5	174.0	171.7
77.5°	163.5	178.1	195.3	210.3	206.1	184.7	160.6	144.8	134.1	126.4	125.2
80°	124.9	133.3	145.6	156.3	151.0	141.8	122.6	111.1	103.5	95.8	92.7
82.5°	90.6	99.0	106.4	112.2	108.1	99.5	87.7	79.9	75.3	70.0	68.8
85°	47.5	52.1	55.2	56.7	55.2	49.8	44.4	41.4	37.6	35.3	34.5
87.5°	22.4	22.0	21.5	22.3	19.8	19.2	16.2	13.7	13.7	13.7	13.1
90°	20.1	17.9	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.2	25.1	24.0	23.6	23.9	24.2	24.4	24.7	24.4	24.2	23.9
95°	43.9	42.0	40.1	43.6	52.6	61.6	70.5	79.5	70.5	61.6	52.6
97.5°	55.0	50.6	46.2	56.7	82.0	107.2	132.5	157.8	132.5	107.2	82.0
100°	60.5	55.9	51.2	67.6	104.8	142.0	179.3	216.5	179.3	142.0	104.8
102.5°	149.0	187.6	226.3	249.6	257.5	265.3	273.2	281.1	273.2	265.3	257.5
105°	223.0	297.3	371.5	404.5	396.3	388.2	380.0	371.9	380.0	388.2	396.3
107.5°	282.5	371.5	460.5	501.7	495.1	488.5	481.9	475.4	481.9	488.5	495.1
110°	371.2	449.8	528.3	564.7	559.0	553.3	547.6	541.9	547.6	553.3	559.0



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	578.8	598.2	617.6	624.8	619.7	614.6	609.6	604.5	609.6	614.6	619.7
115°	741.2	734.4	727.6	721.9	717.2	712.6	708.0	703.4	708.0	712.6	717.2
117.5°	826.6	821.9	817.3	812.4	807.2	802.0	796.9	791.7	796.9	802.0	807.2
120°	886.9	882.0	877.1	872.6	868.5	864.4	860.4	856.3	860.4	864.4	868.5
122.5°	943.7	938.4	933.1	928.3	924.0	919.7	915.4	911.1	915.4	919.7	924.0
125°	1023.3	1018.2	1013.0	1008.6	1005.1	1001.6	998.0	994.5	998.0	1001.6	1005.1
127.5°	1097.4	1093.5	1089.7	1085.8	1081.9	1077.9	1074.0	1070.1	1074.0	1077.9	1081.9
130°	1145.1	1142.1	1139.1	1135.5	1131.1	1126.8	1122.4	1118.1	1122.4	1126.8	1131.1
132.5°	1191.1	1188.1	1185.1	1181.8	1178.1	1174.4	1170.7	1167.0	1170.7	1174.4	1178.1
135°	1256.3	1253.8	1251.4	1248.0	1243.6	1239.3	1234.9	1230.6	1234.9	1239.3	1243.6
137.5°	1315.6	1312.8	1310.0	1307.1	1304.1	1301.0	1298.0	1294.9	1298.0	1301.0	1304.1
140°	1354.3	1351.3	1348.3	1345.7	1343.5	1341.4	1339.2	1337.0	1339.2	1341.4	1343.5
142.5°	1389.6	1386.2	1382.8	1380.1	1378.1	1376.2	1374.2	1372.3	1374.2	1376.2	1378.1
145°	1437.9	1433.3	1428.6	1426.5	1426.7	1427.0	1427.3	1427.5	1427.3	1427.0	1426.7
147.5°	1482.5	1477.9	1473.4	1471.6	1472.6	1473.7	1474.7	1475.7	1474.7	1473.7	1472.6
150°	1509.4	1505.0	1500.7	1499.4	1501.3	1503.3	1505.2	1507.1	1505.2	1503.3	1501.3
152.5°	1534.3	1530.1	1526.0	1525.0	1527.1	1529.2	1531.4	1533.5	1531.4	1529.2	1527.1
155°	1569.0	1565.8	1562.5	1562.1	1564.5	1567.0	1569.4	1571.9	1569.4	1567.0	1564.5
157.5°	1598.4	1596.1	1593.8	1593.7	1595.8	1597.8	1599.9	1602.0	1599.9	1597.8	1595.8
160°	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1618.0	1616.3	1614.7
162.5°	1631.4	1630.0	1628.6	1628.7	1630.4	1632.0	1633.6	1635.3	1633.6	1632.0	1630.4
165°	1651.0	1650.2	1649.4	1649.8	1651.4	1653.0	1654.7	1656.3	1654.7	1653.0	1651.4
167.5°	1666.5	1665.8	1665.0	1665.4	1667.1	1668.7	1670.3	1672.0	1670.3	1668.7	1667.1
170°	1674.8	1674.2	1673.7	1674.2	1675.9	1677.5	1679.1	1680.8	1679.1	1677.5	1675.9
172.5°	1680.6	1680.1	1679.6	1680.1	1681.7	1683.4	1685.0	1686.6	1685.0	1683.4	1681.7
175°	1687.0	1686.5	1685.9	1686.6	1688.5	1690.4	1692.3	1694.2	1692.3	1690.4	1688.5
177.5°	1689.1	1688.9	1688.7	1689.3	1690.9	1692.4	1693.9	1695.4	1693.9	1692.4	1690.9
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1967.7	1964.0	1951.1	1944.4	1933.4	1922.9	1916.2	1919.3	1921.7	1920.5	1918.6
5°	1911.3	1896.7	1874.5	1855.3	1841.5	1816.3	1805.5	1800.2	1795.6	1790.2	1784.8
7.5°	1844.1	1821.2	1789.3	1762.0	1736.2	1704.8	1686.9	1676.2	1665.1	1653.0	1642.3
10°	1796.3	1764.1	1730.4	1692.1	1661.5	1633.1	1607.8	1590.9	1575.6	1561.1	1550.3
12.5°	1746.1	1709.0	1667.3	1614.9	1581.1	1540.5	1536.7	1507.0	1483.0	1474.0	1461.4
15°	1666.0	1613.9	1561.1	1499.0	1472.2	1435.4	1412.4	1389.4	1368.7	1354.1	1350.3
17.5°	1575.2	1507.7	1455.1	1410.5	1366.6	1328.9	1307.7	1289.3	1272.3	1252.8	1250.2
20°	1505.9	1447.6	1390.2	1351.1	1305.9	1267.5	1241.5	1223.1	1208.5	1197.0	1187.1
22.5°	1440.3	1376.5	1323.9	1281.2	1236.6	1205.6	1185.1	1167.3	1155.2	1142.5	1133.1
25°	1335.0	1285.2	1227.7	1179.4	1142.6	1122.7	1105.8	1090.5	1082.9	1074.4	1063.7
27.5°	1242.9	1187.5	1133.7	1096.3	1064.0	1046.4	1034.4	1024.0	1016.8	1011.9	1005.8
30°	1177.9	1121.9	1079.8	1043.0	1016.2	998.6	990.9	984.8	976.3	973.3	970.2
32.5°	1115.3	1064.9	1028.9	997.0	971.4	959.9	952.9	947.4	940.8	937.7	931.6
35°	1026.9	984.8	949.5	931.9	911.2	901.2	895.9	888.2	882.1	879.0	878.2
37.5°	943.7	907.1	883.9	861.2	852.5	846.4	839.0	833.8	832.0	831.5	830.7
40°	889.7	859.8	839.2	820.8	816.9	807.7	801.6	797.0	797.0	797.8	797.0
42.5°	840.7	813.9	795.6	779.7	775.2	769.7	763.6	763.3	764.5	767.1	764.5
45°	766.4	747.2	734.2	726.5	718.1	712.7	711.9	714.2	715.0	715.8	718.1
47.5°	698.0	685.3	673.5	665.0	661.4	660.4	659.5	663.5	667.2	668.6	672.1
50°	657.5	643.0	633.0	627.6	624.6	623.0	624.6	629.2	632.2	636.1	638.4
52.5°	612.2	601.9	595.0	590.9	589.6	590.6	590.9	596.1	601.0	602.4	603.4
55°	549.5	541.8	540.3	533.4	536.4	535.7	539.5	542.6	547.2	551.8	552.5
57.5°	486.9	480.8	476.7	477.3	478.2	481.6	484.8	490.2	495.1	500.0	500.4
60°	445.3	442.2	439.9	439.9	441.4	446.0	449.8	455.2	458.3	461.3	463.6
62.5°	407.2	404.2	401.9	403.1	407.1	409.8	414.3	417.2	420.3	423.3	424.4
65°	347.2	345.6	347.9	349.5	350.2	354.1	359.4	361.7	364.8	366.3	371.7
67.5°	291.8	292.1	291.8	294.0	298.4	299.3	304.4	309.8	310.4	313.3	316.8
70°	254.4	256.0	257.5	259.0	262.9	264.4	268.2	270.5	273.6	275.9	278.2
72.5°	220.1	220.4	221.9	221.6	224.8	228.2	231.4	233.7	236.8	239.7	242.0
75°	169.4	169.4	170.9	171.7	175.5	179.3	178.6	180.1	183.2	186.2	187.8
77.5°	123.7	122.0	123.7	124.5	125.7	128.9	129.5	131.7	135.2	134.1	135.8
80°	94.3	92.0	94.3	95.0	95.0	98.9	98.9	100.4	102.7	100.4	102.7
82.5°	67.3	66.2	67.9	68.1	69.3	69.4	70.7	71.0	73.3	72.2	73.3
85°	33.7	33.0	33.7	33.0	33.7	34.5	34.5	33.7	33.7	35.3	33.0
87.5°	13.1	13.0	12.8	13.2	13.0	12.9	12.5	12.8	13.1	12.1	12.3
90°	13.2	15.8	17.9	20.1	22.3	24.5	25.8	27.2	28.5	29.9	30.9
92.5°	23.6	24.0	25.1	26.2	27.3	28.4	29.1	29.8	30.5	31.2	31.7
95°	43.6	40.1	42.0	43.9	45.8	47.7	49.1	50.4	51.8	53.1	53.7
97.5°	56.7	46.2	50.6	55.0	59.5	63.9	64.9	66.0	67.1	68.2	68.9
100°	67.6	51.2	55.9	60.5	65.1	69.7	71.9	74.1	76.2	78.4	79.8
102.5°	249.6	226.3	187.6	149.0	110.3	71.7	74.5	77.3	80.2	83.0	84.8
105°	404.5	371.5	297.3	223.0	148.8	74.6	77.6	80.6	83.6	86.6	88.6
107.5°	501.7	460.5	371.5	282.5	193.5	104.5	101.4	98.4	95.3	92.3	91.3
110°	564.7	528.3	449.8	371.2	292.6	214.1	186.9	159.7	132.5	105.3	92.3



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	624.8	617.6	598.2	578.8	559.4	539.9	440.8	341.6	242.5	143.3	94.1
115°	721.9	727.6	734.4	741.2	748.0	754.8	628.9	503.0	377.2	251.3	178.6
117.5°	812.4	817.3	821.9	826.6	831.3	836.0	805.5	775.1	744.6	714.2	666.8
120°	872.6	877.1	882.0	886.9	891.8	896.6	899.9	903.2	906.4	909.7	893.0
122.5°	928.3	933.1	938.4	943.7	949.1	954.4	956.3	958.3	960.3	962.2	959.6
125°	1008.6	1013.0	1018.2	1023.3	1028.5	1033.7	1035.6	1037.5	1039.4	1041.3	1042.6
127.5°	1085.8	1089.7	1093.5	1097.4	1101.2	1105.1	1107.9	1110.6	1113.4	1116.2	1117.7
130°	1135.5	1139.1	1142.1	1145.1	1148.1	1151.1	1154.1	1157.1	1160.1	1163.0	1164.4
132.5°	1181.8	1185.1	1188.1	1191.1	1194.1	1197.1	1199.6	1202.2	1204.7	1207.3	1208.4
135°	1248.0	1251.4	1253.8	1256.3	1258.7	1261.2	1263.9	1266.6	1269.3	1272.1	1273.1
137.5°	1307.1	1310.0	1312.8	1315.6	1318.3	1321.1	1323.8	1326.4	1329.1	1331.8	1332.6
140°	1345.7	1348.3	1351.3	1354.3	1357.3	1360.3	1362.7	1365.2	1367.6	1370.1	1370.6
142.5°	1380.1	1382.8	1386.2	1389.6	1393.0	1396.5	1398.7	1400.9	1403.2	1405.4	1405.8
145°	1426.5	1428.6	1433.3	1437.9	1442.5	1447.1	1449.0	1450.9	1452.8	1454.7	1455.0
147.5°	1471.6	1473.4	1477.9	1482.5	1487.1	1491.6	1493.1	1494.5	1495.9	1497.3	1497.4
150°	1499.4	1500.7	1505.0	1509.4	1513.7	1518.1	1519.7	1521.3	1523.0	1524.6	1524.7
152.5°	1525.0	1526.0	1530.1	1534.3	1538.4	1542.5	1544.2	1545.8	1547.4	1549.1	1549.0
155°	1562.1	1562.5	1565.8	1569.0	1572.3	1575.6	1577.2	1578.8	1580.5	1582.1	1581.8
157.5°	1593.7	1593.8	1596.1	1598.4	1600.7	1603.0	1604.8	1606.7	1608.5	1610.4	1610.2
160°	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1621.2	1622.9	1624.5	1626.1	1626.0
162.5°	1628.7	1628.6	1630.0	1631.4	1632.9	1634.3	1636.1	1638.0	1639.8	1641.7	1641.4
165°	1649.8	1649.4	1650.2	1651.0	1651.8	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2
167.5°	1665.4	1665.0	1665.8	1666.5	1667.3	1668.0	1669.9	1671.8	1673.7	1675.6	1675.4
170°	1674.2	1673.7	1674.2	1674.8	1675.3	1675.9	1677.8	1679.7	1681.6	1683.5	1683.2
172.5°	1680.1	1679.6	1680.1	1680.6	1681.2	1681.7	1683.6	1685.5	1687.4	1689.3	1689.1
175°	1686.6	1685.9	1686.5	1687.0	1687.6	1688.1	1690.0	1691.9	1693.8	1695.7	1695.3
177.5°	1689.3	1688.7	1688.9	1689.1	1689.3	1689.6	1691.1	1692.6	1694.1	1695.7	1695.4
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1912.5	1911.3	1911.3	1905.8	1911.3	1911.3	1912.5	1918.6	1920.5	1921.7	1919.3
5°	1774.1	1771.8	1768.0	1771.8	1768.0	1771.8	1774.1	1784.8	1790.2	1795.6	1800.2
7.5°	1637.2	1628.0	1626.7	1617.6	1626.7	1628.0	1637.2	1642.3	1653.0	1665.1	1676.2
10°	1537.3	1531.2	1530.4	1515.8	1530.4	1531.2	1537.3	1550.3	1561.1	1575.6	1590.9
12.5°	1461.3	1446.6	1449.5	1441.0	1449.5	1446.6	1461.3	1461.4	1474.0	1483.0	1507.0
15°	1329.6	1329.6	1326.6	1313.5	1326.6	1329.6	1329.6	1350.3	1354.1	1368.7	1389.4
17.5°	1235.1	1233.5	1226.2	1229.8	1226.2	1233.5	1235.1	1250.2	1252.8	1272.3	1289.3
20°	1178.6	1174.1	1164.9	1164.9	1164.9	1174.1	1178.6	1187.1	1197.0	1208.5	1223.1
22.5°	1125.3	1125.0	1115.2	1118.3	1115.2	1125.0	1125.3	1133.1	1142.5	1155.2	1167.3
25°	1062.9	1056.8	1052.2	1054.5	1052.2	1056.8	1062.9	1063.7	1074.4	1082.9	1090.5
27.5°	1003.8	1000.4	1000.1	993.8	1000.1	1000.4	1003.8	1005.8	1011.9	1016.8	1024.0
30°	969.4	961.8	963.3	959.5	963.3	961.8	969.4	970.2	973.3	976.3	984.8
32.5°	930.2	927.4	925.9	922.7	925.9	927.4	930.2	931.6	937.7	940.8	947.4
35°	876.7	877.5	873.6	875.2	873.6	877.5	876.7	878.2	879.0	882.1	888.2
37.5°	830.0	832.4	830.6	831.0	830.6	832.4	830.0	830.7	831.5	832.0	833.8
40°	799.3	799.3	799.3	801.6	799.3	799.3	799.3	797.0	797.8	797.0	797.0
42.5°	769.9	768.7	767.4	767.3	767.4	768.7	769.9	764.5	767.1	764.5	763.3
45°	719.6	721.9	722.7	718.8	722.7	721.9	719.6	718.1	715.8	715.0	714.2
47.5°	674.1	674.4	674.1	677.5	674.1	674.4	674.1	672.1	668.6	667.2	663.5
50°	642.2	640.7	642.2	640.7	642.2	640.7	642.2	638.4	636.1	632.2	629.2
52.5°	608.5	608.8	607.9	607.6	607.9	608.8	608.5	603.4	602.4	601.0	596.1
55°	555.6	557.1	556.4	556.4	556.4	557.1	555.6	552.5	551.8	547.2	542.6
57.5°	500.9	502.3	503.3	500.0	503.3	502.3	500.9	500.4	500.0	495.1	490.2
60°	462.9	466.7	465.9	464.4	465.9	466.7	462.9	463.6	461.3	458.3	455.2
62.5°	427.9	429.3	429.2	428.9	429.2	429.3	427.9	424.4	423.3	420.3	417.2
65°	374.0	375.5	373.2	375.5	373.2	375.5	374.0	371.7	366.3	364.8	361.7
67.5°	315.9	316.4	318.0	319.1	318.0	316.4	315.9	316.8	313.3	310.4	309.8
70°	279.7	279.0	281.3	283.6	281.3	279.0	279.7	278.2	275.9	273.6	270.5
72.5°	241.7	243.4	242.6	244.3	242.6	243.4	241.7	242.0	239.7	236.8	233.7
75°	186.2	188.5	187.8	190.1	187.8	188.5	186.2	187.8	186.2	183.2	180.1
77.5°	134.6	134.9	134.6	135.8	134.6	134.9	134.6	135.8	134.1	135.2	131.7
80°	102.7	101.2	99.6	102.7	99.6	101.2	102.7	102.7	100.4	102.7	100.4
82.5°	71.4	72.3	70.8	70.8	70.8	72.3	71.4	73.3	72.2	73.3	71.0
85°	33.0	32.2	30.7	30.7	30.7	32.2	33.0	33.0	35.3	33.7	33.7
87.5°	12.4	11.9	12.0	11.5	12.0	11.9	12.4	12.3	12.1	13.1	12.8
90°	31.4	31.9	32.5	33.0	32.5	31.9	31.4	30.9	29.9	28.5	27.2
92.5°	32.0	32.4	32.7	33.0	32.7	32.4	32.0	31.7	31.2	30.5	29.8
95°	53.4	53.1	52.9	52.6	52.9	53.1	53.4	53.7	53.1	51.8	50.4
97.5°	69.2	69.6	69.9	70.2	69.9	69.6	69.2	68.9	68.2	67.1	66.0
100°	80.3	80.9	81.4	82.0	81.4	80.9	80.3	79.8	78.4	76.2	74.1
102.5°	85.5	86.3	87.1	87.8	87.1	86.3	85.5	84.8	83.0	80.2	77.3
105°	89.7	90.8	91.9	93.0	91.9	90.8	89.7	88.6	86.6	83.6	80.6
107.5°	92.4	93.5	94.6	95.7	94.6	93.5	92.4	91.3	92.3	95.3	98.4
110°	93.4	94.5	95.6	96.6	95.6	94.5	93.4	92.3	105.3	132.5	159.7



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.0	95.9	96.7	97.6	96.7	95.9	95.0	94.1	143.3	242.5	341.6
115°	159.0	139.5	119.9	100.3	119.9	139.5	159.0	178.6	251.3	377.2	503.0
117.5°	602.5	538.2	473.9	409.5	473.9	538.2	602.5	666.8	714.2	744.6	775.1
120°	856.3	819.6	782.9	746.2	782.9	819.6	856.3	893.0	909.7	906.4	903.2
122.5°	952.5	945.4	938.3	931.1	938.3	945.4	952.5	959.6	962.2	960.3	958.3
125°	1043.4	1044.3	1045.1	1045.9	1045.1	1044.3	1043.4	1042.6	1041.3	1039.4	1037.5
127.5°	1117.8	1118.0	1118.1	1118.3	1118.1	1118.0	1117.8	1117.7	1116.2	1113.4	1110.6
130°	1164.1	1163.9	1163.6	1163.3	1163.6	1163.9	1164.1	1164.4	1163.0	1160.1	1157.1
132.5°	1208.2	1207.9	1207.6	1207.4	1207.6	1207.9	1208.2	1208.4	1207.3	1204.7	1202.2
135°	1272.6	1272.1	1271.5	1271.0	1271.5	1272.1	1272.6	1273.1	1272.1	1269.3	1266.6
137.5°	1331.7	1330.8	1329.9	1328.9	1329.9	1330.8	1331.7	1332.6	1331.8	1329.1	1326.4
140°	1369.2	1367.9	1366.5	1365.2	1366.5	1367.9	1369.2	1370.6	1370.1	1367.6	1365.2
142.5°	1404.5	1403.1	1401.7	1400.4	1401.7	1403.1	1404.5	1405.8	1405.4	1403.2	1400.9
145°	1453.6	1452.3	1450.9	1449.6	1450.9	1452.3	1453.6	1455.0	1454.7	1452.8	1450.9
147.5°	1496.3	1495.1	1494.0	1492.9	1494.0	1495.1	1496.3	1497.4	1497.3	1495.9	1494.5
150°	1523.4	1522.0	1520.6	1519.3	1520.6	1522.0	1523.4	1524.7	1524.6	1523.0	1521.3
152.5°	1547.2	1545.4	1543.6	1541.8	1543.6	1545.4	1547.2	1549.0	1549.1	1547.4	1545.8
155°	1579.6	1577.5	1575.3	1573.1	1575.3	1577.5	1579.6	1581.8	1582.1	1580.5	1578.8
157.5°	1608.1	1606.0	1603.9	1601.7	1603.9	1606.0	1608.1	1610.2	1610.4	1608.5	1606.7
160°	1624.1	1622.2	1620.3	1618.4	1620.3	1622.2	1624.1	1626.0	1626.1	1624.5	1622.9
162.5°	1639.1	1636.7	1634.4	1632.1	1634.4	1636.7	1639.1	1641.4	1641.7	1639.8	1638.0
165°	1658.3	1656.4	1654.5	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2	1658.3	1656.4
167.5°	1672.9	1670.5	1668.0	1665.6	1668.0	1670.5	1672.9	1675.4	1675.6	1673.7	1671.8
170°	1680.8	1678.3	1675.9	1673.4	1675.9	1678.3	1680.8	1683.2	1683.5	1681.6	1679.7
172.5°	1686.6	1684.2	1681.7	1679.3	1681.7	1684.2	1686.6	1689.1	1689.3	1687.4	1685.5
175°	1692.6	1689.9	1687.1	1684.4	1687.1	1689.9	1692.6	1695.3	1695.7	1693.8	1691.9
177.5°	1693.5	1691.5	1689.6	1687.6	1689.6	1691.5	1693.5	1695.4	1695.7	1694.1	1692.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	1916.2	1922.9	1933.4	1944.4	1951.1	1964.0	1967.7	1973.8	1979.3	1992.2	2005.7
5°	1805.5	1816.3	1841.5	1855.3	1874.5	1896.7	1911.3	1926.6	1943.5	1972.6	1999.4
7.5°	1686.9	1704.8	1736.2	1762.0	1789.3	1821.2	1844.1	1874.5	1899.6	1940.7	1979.9
10°	1607.8	1633.1	1661.5	1692.1	1730.4	1764.1	1796.3	1834.6	1865.3	1914.3	1960.3
12.5°	1536.7	1540.5	1581.1	1614.9	1667.3	1709.0	1746.1	1795.4	1825.4	1883.7	1932.1
15°	1412.4	1435.4	1472.2	1499.0	1561.1	1613.9	1666.0	1717.4	1751.9	1823.9	1887.5
17.5°	1307.7	1328.9	1366.6	1410.5	1455.1	1507.7	1575.2	1629.3	1676.2	1758.5	1833.7
20°	1241.5	1267.5	1305.9	1351.1	1390.2	1447.6	1505.9	1568.0	1618.5	1711.3	1799.4
22.5°	1185.1	1205.6	1236.6	1281.2	1323.9	1376.5	1440.3	1507.9	1560.9	1661.0	1750.3
25°	1105.8	1122.7	1142.6	1179.4	1227.7	1285.2	1335.0	1409.3	1486.7	1580.2	1688.3
27.5°	1034.4	1046.4	1064.0	1096.3	1133.7	1187.5	1242.9	1313.4	1391.2	1492.7	1606.7
30°	990.9	998.6	1016.2	1043.0	1079.8	1121.9	1177.9	1245.3	1325.0	1427.7	1541.1
32.5°	952.9	959.9	971.4	997.0	1028.9	1064.9	1115.3	1182.8	1258.8	1359.7	1485.3
35°	895.9	901.2	911.2	931.9	949.5	984.8	1026.9	1088.2	1159.5	1256.1	1386.3
37.5°	839.0	846.4	852.5	861.2	883.9	907.1	943.7	995.5	1065.4	1162.9	1287.0
40°	801.6	807.7	816.9	820.8	839.2	859.8	889.7	937.2	1007.8	1096.6	1217.7
42.5°	763.6	769.7	775.2	779.7	795.6	813.9	840.7	881.5	944.0	1030.4	1150.3
45°	711.9	712.7	718.1	726.5	734.2	747.2	766.4	801.6	849.9	931.1	1039.9
47.5°	659.5	660.4	661.4	665.0	673.5	685.3	698.0	726.7	769.9	834.7	940.6
50°	624.6	623.0	624.6	627.6	633.0	643.0	657.5	678.2	713.5	774.0	871.3
52.5°	590.9	590.6	589.6	590.9	595.0	601.9	612.2	629.8	661.4	717.0	802.7
55°	539.5	535.7	536.4	533.4	540.3	541.8	549.5	564.0	591.6	629.9	710.4
57.5°	484.8	481.6	478.2	477.3	476.7	480.8	486.9	498.4	519.6	553.2	618.4
60°	449.8	446.0	441.4	439.9	439.9	442.2	445.3	453.7	473.6	503.5	557.1
62.5°	414.3	409.8	407.1	403.1	401.9	404.2	407.2	413.2	427.6	455.7	502.0
65°	359.4	354.1	350.2	349.5	347.9	345.6	347.2	353.3	364.8	387.0	423.8
67.5°	304.4	299.3	298.4	294.0	291.8	292.1	291.8	297.0	303.9	323.1	350.5
70°	268.2	264.4	262.9	259.0	257.5	256.0	254.4	259.0	265.9	282.0	305.8
72.5°	231.4	228.2	224.8	221.6	221.9	220.4	220.1	222.9	228.5	243.4	261.6
75°	178.6	179.3	175.5	171.7	170.9	169.4	169.4	171.7	174.0	185.5	200.0
77.5°	129.5	128.9	125.7	124.5	123.7	122.0	123.7	125.2	126.4	134.1	144.8
80°	98.9	98.9	95.0	95.0	94.3	92.0	94.3	92.7	95.8	103.5	111.1
82.5°	70.7	69.4	69.3	68.1	67.9	66.2	67.3	68.8	70.0	75.3	79.9
85°	34.5	34.5	33.7	33.0	33.7	33.0	33.7	34.5	35.3	37.6	41.4
87.5°	12.5	12.9	13.0	13.2	12.8	13.0	13.1	13.1	13.7	13.7	13.7
90°	25.8	24.5	22.3	20.1	17.9	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.2	25.1	24.0	23.6	23.9	24.2	24.4	24.7
95°	49.1	47.7	45.8	43.9	42.0	40.1	43.6	52.6	61.6	70.5	79.5
97.5°	64.9	63.9	59.5	55.0	50.6	46.2	56.7	82.0	107.2	132.5	157.8
100°	71.9	69.7	65.1	60.5	55.9	51.2	67.6	104.8	142.0	179.3	216.5
102.5°	74.5	71.7	110.3	149.0	187.6	226.3	249.6	257.5	265.3	273.2	281.1
105°	77.6	74.6	148.8	223.0	297.3	371.5	404.5	396.3	388.2	380.0	371.9
107.5°	101.4	104.5	193.5	282.5	371.5	460.5	501.7	495.1	488.5	481.9	475.4
110°	186.9	214.1	292.6	371.2	449.8	528.3	564.7	559.0	553.3	547.6	541.9



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	440.8	539.9	559.4	578.8	598.2	617.6	624.8	619.7	614.6	609.6	604.5
115°	628.9	754.8	748.0	741.2	734.4	727.6	721.9	717.2	712.6	708.0	703.4
117.5°	805.5	836.0	831.3	826.6	821.9	817.3	812.4	807.2	802.0	796.9	791.7
120°	899.9	896.6	891.8	886.9	882.0	877.1	872.6	868.5	864.4	860.4	856.3
122.5°	956.3	954.4	949.1	943.7	938.4	933.1	928.3	924.0	919.7	915.4	911.1
125°	1035.6	1033.7	1028.5	1023.3	1018.2	1013.0	1008.6	1005.1	1001.6	998.0	994.5
127.5°	1107.9	1105.1	1101.2	1097.4	1093.5	1089.7	1085.8	1081.9	1077.9	1074.0	1070.1
130°	1154.1	1151.1	1148.1	1145.1	1142.1	1139.1	1135.5	1131.1	1126.8	1122.4	1118.1
132.5°	1199.6	1197.1	1194.1	1191.1	1188.1	1185.1	1181.8	1178.1	1174.4	1170.7	1167.0
135°	1263.9	1261.2	1258.7	1256.3	1253.8	1251.4	1248.0	1243.6	1239.3	1234.9	1230.6
137.5°	1323.8	1321.1	1318.3	1315.6	1312.8	1310.0	1307.1	1304.1	1301.0	1298.0	1294.9
140°	1362.7	1360.3	1357.3	1354.3	1351.3	1348.3	1345.7	1343.5	1341.4	1339.2	1337.0
142.5°	1398.7	1396.5	1393.0	1389.6	1386.2	1382.8	1380.1	1378.1	1376.2	1374.2	1372.3
145°	1449.0	1447.1	1442.5	1437.9	1433.3	1428.6	1426.5	1426.7	1427.0	1427.3	1427.5
147.5°	1493.1	1491.6	1487.1	1482.5	1477.9	1473.4	1471.6	1472.6	1473.7	1474.7	1475.7
150°	1519.7	1518.1	1513.7	1509.4	1505.0	1500.7	1499.4	1501.3	1503.3	1505.2	1507.1
152.5°	1544.2	1542.5	1538.4	1534.3	1530.1	1526.0	1525.0	1527.1	1529.2	1531.4	1533.5
155°	1577.2	1575.6	1572.3	1569.0	1565.8	1562.5	1562.1	1564.5	1567.0	1569.4	1571.9
157.5°	1604.8	1603.0	1600.7	1598.4	1596.1	1593.8	1593.7	1595.8	1597.8	1599.9	1602.0
160°	1621.2	1619.6	1618.0	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6
162.5°	1636.1	1634.3	1632.9	1631.4	1630.0	1628.6	1628.7	1630.4	1632.0	1633.6	1635.3
165°	1654.5	1652.6	1651.8	1651.0	1650.2	1649.4	1649.8	1651.4	1653.0	1654.7	1656.3
167.5°	1669.9	1668.0	1667.3	1666.5	1665.8	1665.0	1665.4	1667.1	1668.7	1670.3	1672.0
170°	1677.8	1675.9	1675.3	1674.8	1674.2	1673.7	1674.2	1675.9	1677.5	1679.1	1680.8
172.5°	1683.6	1681.7	1681.2	1680.6	1680.1	1679.6	1680.1	1681.7	1683.4	1685.0	1686.6
175°	1690.0	1688.1	1687.6	1687.0	1686.5	1685.9	1686.6	1688.5	1690.4	1692.3	1694.2
177.5°	1691.1	1689.6	1689.3	1689.1	1688.9	1688.7	1689.3	1690.9	1692.4	1693.9	1695.4
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331603

CATALOG NUMBER: S122DIW-S1005D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2004.5	2007.5	2017.3	2027.2	2038.2	2041.3	2046.2	2041.9	2040.6	2052.3	2060.9
5°	2010.1	2023.9	2050.8	2075.3	2096.0	2110.5	2125.9	2132.0	2143.5	2159.6	2179.5
7.5°	2003.7	2030.5	2072.7	2108.4	2147.3	2175.4	2197.3	2216.0	2238.7	2269.2	2302.4
10°	1996.3	2032.4	2083.7	2127.4	2174.9	2210.9	2240.8	2269.9	2303.7	2345.8	2389.5
12.5°	1982.9	2025.6	2089.8	2141.5	2202.5	2237.9	2278.2	2341.1	2377.2	2435.9	2497.4
15°	1955.7	2003.2	2092.9	2156.5	2225.5	2292.9	2367.3	2427.0	2486.8	2521.3	2607.9
17.5°	1915.4	1985.2	2084.5	2158.7	2246.3	2352.5	2436.1	2503.8	2572.8	2628.7	2672.1
20°	1882.9	1958.8	2072.2	2161.1	2265.3	2379.5	2475.3	2544.3	2604.1	2650.8	2677.6
22.5°	1841.8	1937.3	2047.7	2151.9	2285.0	2397.9	2498.6	2552.9	2602.8	2625.7	2635.9
25°	1777.2	1892.1	2017.0	2144.3	2294.5	2414.0	2506.0	2538.9	2553.5	2531.3	2494.5
27.5°	1707.4	1835.6	1981.6	2129.8	2288.6	2403.6	2469.5	2464.3	2439.6	2367.7	2310.2
30°	1655.3	1796.3	1953.4	2115.1	2274.5	2386.4	2424.7	2386.4	2330.5	2250.0	2168.0
32.5°	1600.8	1746.7	1923.4	2094.3	2248.8	2347.2	2355.5	2289.6	2203.0	2111.5	2009.2
35°	1518.1	1676.0	1866.8	2047.7	2194.1	2256.1	2219.4	2102.9	2000.2	1875.3	1735.8
37.5°	1424.8	1599.1	1790.5	1979.5	2112.1	2128.3	2037.0	1914.3	1769.5	1622.7	1458.5
40°	1354.9	1539.6	1736.6	1927.4	2044.6	2027.8	1911.3	1776.4	1604.0	1424.6	1272.1
42.5°	1292.4	1477.1	1677.7	1864.8	1958.8	1912.5	1776.4	1610.9	1425.6	1256.7	1117.0
45°	1184.0	1374.1	1579.5	1760.3	1814.0	1730.4	1550.3	1366.4	1184.0	1043.0	932.7
47.5°	1078.9	1266.8	1470.2	1629.1	1648.1	1535.8	1339.0	1149.7	992.9	878.1	800.2
50°	1001.6	1190.1	1391.7	1533.5	1527.3	1391.7	1189.4	1009.3	878.2	785.5	733.4
52.5°	932.3	1110.4	1304.0	1432.9	1400.4	1252.5	1059.4	899.5	791.8	719.3	672.1
55°	824.6	989.4	1173.3	1276.7	1217.0	1053.0	889.7	761.0	681.3	626.9	590.1
57.5°	717.6	872.1	1029.5	1093.3	1027.2	875.8	739.7	646.3	586.4	546.1	522.2
60°	651.4	786.3	926.5	981.7	902.8	767.9	660.6	577.1	528.8	495.8	474.4
62.5°	585.2	706.0	838.2	868.3	796.1	682.1	587.0	517.6	477.9	448.6	428.4
65°	495.1	593.9	694.3	714.2	647.6	559.4	484.3	439.1	403.9	382.4	366.3
67.5°	406.0	485.4	556.5	572.6	514.2	453.1	398.8	359.4	335.5	317.7	304.1
70°	353.3	416.1	474.4	487.4	440.7	386.2	344.9	313.4	292.0	276.7	263.6
72.5°	297.5	349.9	398.3	407.1	368.9	327.4	293.4	268.7	249.7	239.9	227.5
75°	227.6	258.3	295.8	298.1	272.8	247.5	221.5	205.4	195.4	183.2	177.0
77.5°	160.6	184.7	206.1	210.3	195.3	178.1	163.5	150.8	142.4	136.7	131.0
80°	122.6	141.8	151.0	156.3	145.6	133.3	124.9	116.5	111.1	107.3	103.5
82.5°	87.7	99.5	108.1	112.2	106.4	99.0	90.6	85.8	81.7	78.5	77.1
85°	44.4	49.8	55.2	56.7	55.2	52.1	47.5	47.5	45.2	44.4	44.4
87.5°	16.2	19.2	19.8	22.3	21.5	22.0	22.4	22.2	22.1	21.7	21.4
90°	4.2	7.2	10.2	13.2	15.8	17.9	20.1	22.3	24.5	25.8	27.2
92.5°	24.4	24.2	23.9	23.6	24.0	25.1	26.2	27.3	28.4	29.1	29.8
95°	70.5	61.6	52.6	43.6	40.1	42.0	43.9	45.8	47.7	49.1	50.4
97.5°	132.5	107.2	82.0	56.7	46.2	50.6	55.0	59.5	63.9	64.9	66.0
100°	179.3	142.0	104.8	67.6	51.2	55.9	60.5	65.1	69.7	71.9	74.1
102.5°	273.2	265.3	257.5	249.6	226.3	187.6	149.0	110.3	71.7	74.5	77.3
105°	380.0	388.2	396.3	404.5	371.5	297.3	223.0	148.8	74.6	77.6	80.6
107.5°	481.9	488.5	495.1	501.7	460.5	371.5	282.5	193.5	104.5	101.4	98.4
110°	547.6	553.3	559.0	564.7	528.3	449.8	371.2	292.6	214.1	186.9	159.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	609.6	614.6	619.7	624.8	617.6	598.2	578.8	559.4	539.9	440.8	341.6
115°	708.0	712.6	717.2	721.9	727.6	734.4	741.2	748.0	754.8	628.9	503.0
117.5°	796.9	802.0	807.2	812.4	817.3	821.9	826.6	831.3	836.0	805.5	775.1
120°	860.4	864.4	868.5	872.6	877.1	882.0	886.9	891.8	896.6	899.9	903.2
122.5°	915.4	919.7	924.0	928.3	933.1	938.4	943.7	949.1	954.4	956.3	958.3
125°	998.0	1001.6	1005.1	1008.6	1013.0	1018.2	1023.3	1028.5	1033.7	1035.6	1037.5
127.5°	1074.0	1077.9	1081.9	1085.8	1089.7	1093.5	1097.4	1101.2	1105.1	1107.9	1110.6
130°	1122.4	1126.8	1131.1	1135.5	1139.1	1142.1	1145.1	1148.1	1151.1	1154.1	1157.1
132.5°	1170.7	1174.4	1178.1	1181.8	1185.1	1188.1	1191.1	1194.1	1197.1	1199.6	1202.2
135°	1234.9	1239.3	1243.6	1248.0	1251.4	1253.8	1256.3	1258.7	1261.2	1263.9	1266.6
137.5°	1298.0	1301.0	1304.1	1307.1	1310.0	1312.8	1315.6	1318.3	1321.1	1323.8	1326.4
140°	1339.2	1341.4	1343.5	1345.7	1348.3	1351.3	1354.3	1357.3	1360.3	1362.7	1365.2
142.5°	1374.2	1376.2	1378.1	1380.1	1382.8	1386.2	1389.6	1393.0	1396.5	1398.7	1400.9
145°	1427.3	1427.0	1426.7	1426.5	1428.6	1433.3	1437.9	1442.5	1447.1	1449.0	1450.9
147.5°	1474.7	1473.7	1472.6	1471.6	1473.4	1477.9	1482.5	1487.1	1491.6	1493.1	1494.5
150°	1505.2	1503.3	1501.3	1499.4	1500.7	1505.0	1509.4	1513.7	1518.1	1519.7	1521.3
152.5°	1531.4	1529.2	1527.1	1525.0	1526.0	1530.1	1534.3	1538.4	1542.5	1544.2	1545.8
155°	1569.4	1567.0	1564.5	1562.1	1562.5	1565.8	1569.0	1572.3	1575.6	1577.2	1578.8
157.5°	1599.9	1597.8	1595.8	1593.7	1593.8	1596.1	1598.4	1600.7	1603.0	1604.8	1606.7
160°	1618.0	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1621.2	1622.9
162.5°	1633.6	1632.0	1630.4	1628.7	1628.6	1630.0	1631.4	1632.9	1634.3	1636.1	1638.0
165°	1654.7	1653.0	1651.4	1649.8	1649.4	1650.2	1651.0	1651.8	1652.6	1654.5	1656.4
167.5°	1670.3	1668.7	1667.1	1665.4	1665.0	1665.8	1666.5	1667.3	1668.0	1669.9	1671.8
170°	1679.1	1677.5	1675.9	1674.2	1673.7	1674.2	1674.8	1675.3	1675.9	1677.8	1679.7
172.5°	1685.0	1683.4	1681.7	1680.1	1679.6	1680.1	1680.6	1681.2	1681.7	1683.6	1685.5
175°	1692.3	1690.4	1688.5	1686.6	1685.9	1686.5	1687.0	1687.6	1688.1	1690.0	1691.9
177.5°	1693.9	1692.4	1690.9	1689.3	1688.7	1688.9	1689.1	1689.3	1689.6	1691.1	1692.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0	1994.0
2.5°	2068.2	2076.8	2076.8	2078.0	2087.8	2086.6	2086.0
5°	2201.0	2214.0	2215.5	2229.3	2238.5	2235.4	2227.0
7.5°	2326.2	2350.4	2368.8	2379.1	2391.2	2398.7	2395.3
10°	2425.5	2460.8	2482.2	2496.8	2514.4	2527.4	2522.8
12.5°	2515.6	2557.6	2587.1	2612.0	2614.3	2631.0	2619.7
15°	2656.2	2700.6	2705.2	2723.6	2738.2	2736.6	2737.4
17.5°	2702.6	2716.9	2719.8	2720.2	2720.4	2715.0	2703.4
20°	2686.1	2680.7	2667.7	2657.7	2640.1	2637.8	2622.5
22.5°	2607.6	2590.6	2557.9	2536.3	2508.9	2501.7	2497.4
25°	2453.1	2415.5	2363.4	2313.6	2299.8	2273.0	2280.7
27.5°	2241.1	2182.6	2126.2	2085.7	2049.1	2008.9	2020.4
30°	2092.1	2026.2	1946.5	1885.2	1846.1	1807.8	1800.9
32.5°	1914.3	1817.8	1728.9	1674.9	1615.0	1590.8	1564.3
35°	1607.8	1513.5	1425.4	1349.5	1305.9	1272.1	1241.5
37.5°	1332.1	1223.6	1152.4	1091.0	1059.4	1040.1	1045.0
40°	1161.0	1066.0	1013.9	967.1	938.0	924.2	927.3
42.5°	1022.5	951.3	908.4	876.4	855.9	848.2	846.4
45°	865.2	825.4	790.1	771.7	761.8	753.3	748.0
47.5°	757.9	725.4	705.5	694.6	685.9	677.3	677.1
50°	693.5	672.1	658.3	646.8	639.9	633.8	639.1
52.5°	644.5	624.9	611.1	600.8	598.2	592.7	592.5
55°	571.7	556.4	546.4	537.2	532.6	529.5	525.7
57.5°	505.5	490.9	481.7	475.9	467.2	464.1	462.9
60°	458.3	446.8	437.6	429.9	426.1	420.0	420.0
62.5°	414.7	403.3	394.7	388.8	382.6	380.1	380.7
65°	351.8	342.6	334.1	328.0	326.5	321.9	323.4
67.5°	293.8	287.7	278.8	275.4	272.5	270.1	268.2
70°	255.2	249.1	244.5	239.9	237.6	237.6	237.6
72.5°	222.7	215.3	212.6	206.8	208.1	205.7	203.2
75°	172.4	167.8	165.5	163.2	159.4	159.4	159.4
77.5°	126.9	125.5	122.8	120.3	119.4	118.6	118.9
80°	98.1	97.3	95.8	95.8	94.3	93.5	92.0
82.5°	75.4	73.4	72.5	71.9	71.6	71.4	71.1
85°	42.9	41.4	41.4	42.1	40.6	40.6	41.4
87.5°	22.3	22.5	22.1	22.2	22.9	22.4	22.5
90°	28.5	29.9	30.9	31.4	31.9	32.5	33.0
92.5°	30.5	31.2	31.7	32.0	32.4	32.7	33.0
95°	51.8	53.1	53.7	53.4	53.1	52.9	52.6
97.5°	67.1	68.2	68.9	69.2	69.6	69.9	70.2
100°	76.2	78.4	79.8	80.3	80.9	81.4	82.0
102.5°	80.2	83.0	84.8	85.5	86.3	87.1	87.8
105°	83.6	86.6	88.6	89.7	90.8	91.9	93.0
107.5°	95.3	92.3	91.3	92.4	93.5	94.6	95.7
110°	132.5	105.3	92.3	93.4	94.5	95.6	96.6



TEST NUMBER: P331603

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.5	143.3	94.1	95.0	95.9	96.7	97.6
115°	377.2	251.3	178.6	159.0	139.5	119.9	100.3
117.5°	744.6	714.2	666.8	602.5	538.2	473.9	409.5
120°	906.4	909.7	893.0	856.3	819.6	782.9	746.2
122.5°	960.3	962.2	959.6	952.5	945.4	938.3	931.1
125°	1039.4	1041.3	1042.6	1043.4	1044.3	1045.1	1045.9
127.5°	1113.4	1116.2	1117.7	1117.8	1118.0	1118.1	1118.3
130°	1160.1	1163.0	1164.4	1164.1	1163.9	1163.6	1163.3
132.5°	1204.7	1207.3	1208.4	1208.2	1207.9	1207.6	1207.4
135°	1269.3	1272.1	1273.1	1272.6	1272.1	1271.5	1271.0
137.5°	1329.1	1331.8	1332.6	1331.7	1330.8	1329.9	1328.9
140°	1367.6	1370.1	1370.6	1369.2	1367.9	1366.5	1365.2
142.5°	1403.2	1405.4	1405.8	1404.5	1403.1	1401.7	1400.4
145°	1452.8	1454.7	1455.0	1453.6	1452.3	1450.9	1449.6
147.5°	1495.9	1497.3	1497.4	1496.3	1495.1	1494.0	1492.9
150°	1523.0	1524.6	1524.7	1523.4	1522.0	1520.6	1519.3
152.5°	1547.4	1549.1	1549.0	1547.2	1545.4	1543.6	1541.8
155°	1580.5	1582.1	1581.8	1579.6	1577.5	1575.3	1573.1
157.5°	1608.5	1610.4	1610.2	1608.1	1606.0	1603.9	1601.7
160°	1624.5	1626.1	1626.0	1624.1	1622.2	1620.3	1618.4
162.5°	1639.8	1641.7	1641.4	1639.1	1636.7	1634.4	1632.1
165°	1658.3	1660.2	1660.2	1658.3	1656.4	1654.5	1652.6
167.5°	1673.7	1675.6	1675.4	1672.9	1670.5	1668.0	1665.6
170°	1681.6	1683.5	1683.2	1680.8	1678.3	1675.9	1673.4
172.5°	1687.4	1689.3	1689.1	1686.6	1684.2	1681.7	1679.3
175°	1693.8	1695.7	1695.3	1692.6	1689.9	1687.1	1684.4
177.5°	1694.1	1695.7	1695.4	1693.5	1691.5	1689.6	1687.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5

(END OF REPORT)