

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: P331609-940

Luminaire Tested: **S122DIW-S1005D1440U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331609-940
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-S1005D1440U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9063.5 lumens
Efficiency: N/A
Efficacy: 109.3 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

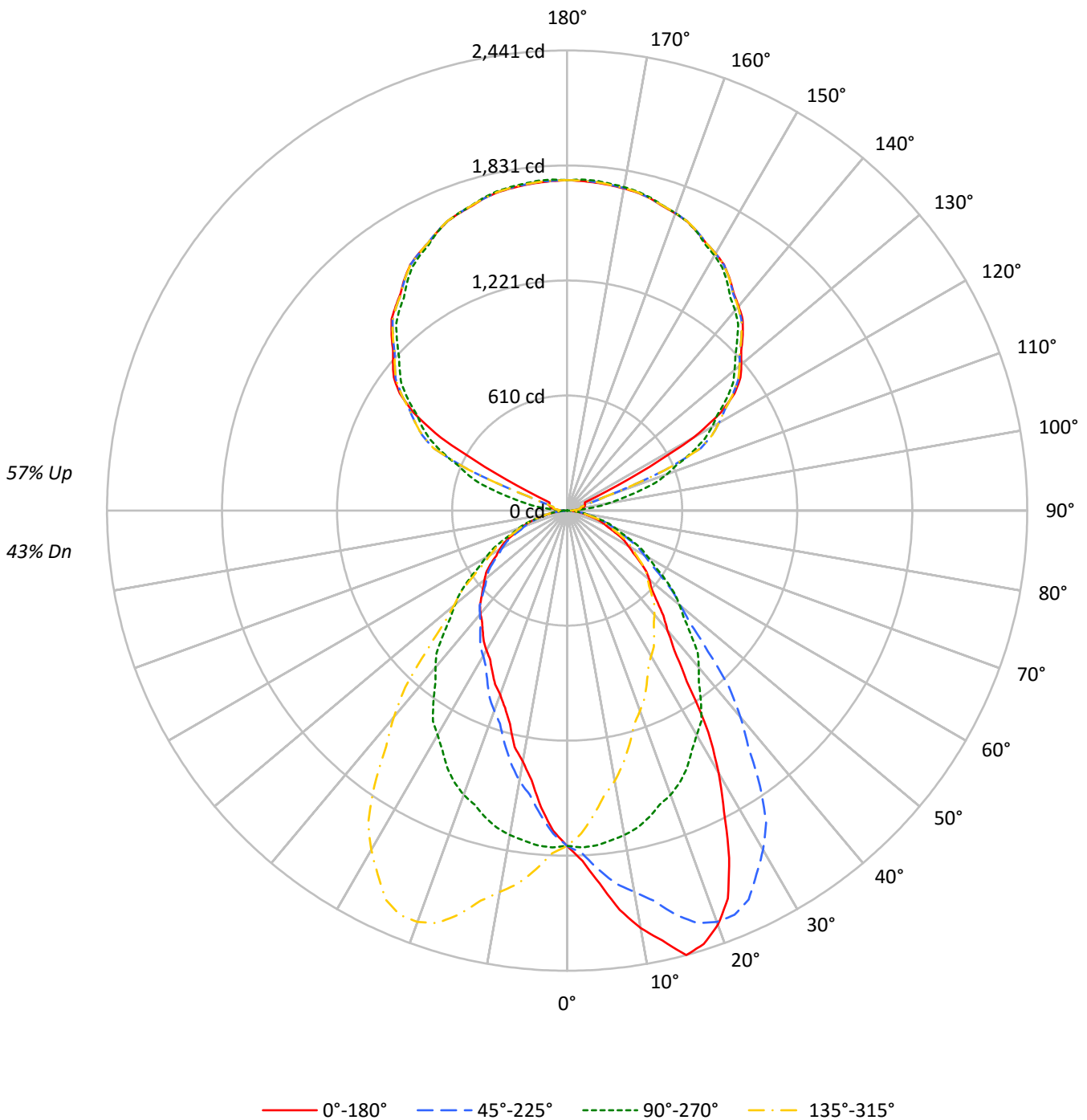
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43				
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43	37				
2	88	81	75	71	81	75	70	65	62	59	55	51	48	46	40	38	37	32				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	27	24	21				
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17				
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28709	28709	28709	28709
5°	32185	28896	25606	28896
10°	36882	28658	22161	28658
15°	40802	28134	19579	28134
20°	40180	27569	17849	27569
25°	36230	26820	16751	26820
30°	29940	25620	15951	25620
35°	21821	24366	15382	24366
40°	17428	22885	15066	22885
45°	15230	21174	14636	21174
50°	14315	19515	14350	19515
55°	13196	17833	13965	17833
60°	12093	16043	13372	16043
65°	11018	14437	12791	14437
70°	10003	12873	11939	12873
75°	8865	11123	10574	11123
80°	7624	9214	8517	9214
85°	6836	6836	5076	6836



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.9
10°-20°	492.3	5.4
20°-30°	714.5	7.9
30°-40°	754.0	8.3
40°-50°	667.6	7.4
50°-60°	532.7	5.9
60°-70°	362.1	4.0
70°-80°	185.6	2.0
80°-90°	49.1	0.5
90°-100°	58.5	0.6
100°-110°	214.4	2.4
110°-120°	573.1	6.3
120°-130°	946.0	10.4
130°-140°	1006.1	11.1
140°-150°	935.1	10.3
150°-160°	751.8	8.3
160°-170°	484.5	5.3
170°-180°	166.8	1.8
0°-30°	1376.1	15.2
0°-40°	2130.1	23.5
0°-60°	3330.4	36.7
0°-90°	3927.2	43.3
90°-120°	846.0	9.3
90°-150°	3733.2	41.2
90°-180°	5136.0	56.7
0°-180°	9063.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1778	1778	1778	1778	1778	
5°	1986	1783	1580	1783	1986	198
15°	2441	1683	1171	1683	2441	674
25°	2034	1506	940	1506	2034	919
35°	1107	1236	780	1236	1107	720
45°	667	927	641	927	667	524
55°	469	634	496	634	469	420
65°	288	378	335	378	288	287
75°	142	178	170	178	142	152
85°	37	37	27	37	37	41
90°	34	1	34	1	34	17
95°	55	82	55	82	55	51
105°	96	386	96	386	96	100
115°	104	729	104	729	104	260
125°	1084	1031	1084	1031	1084	938
135°	1318	1276	1318	1276	1318	1016
145°	1503	1480	1503	1480	1503	940
155°	1631	1630	1631	1630	1631	753
165°	1713	1717	1713	1717	1713	484
175°	1746	1756	1746	1756	1746	166
180°	1753	1753	1753	1753	1753	



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1860.1	1860.6	1861.7	1853.0	1851.9	1851.9	1844.2	1837.7	1830.1	1819.6	1820.8
5°	1985.8	1993.3	1996.1	1987.9	1975.6	1974.2	1962.7	1943.5	1925.7	1911.4	1901.1
7.5°	2135.9	2138.9	2132.3	2121.5	2112.3	2095.9	2074.3	2053.1	2023.5	1996.3	1976.0
10°	2249.6	2253.7	2242.1	2226.4	2213.4	2194.3	2162.8	2130.7	2091.8	2054.2	2024.1
12.5°	2336.0	2346.1	2331.2	2329.1	2306.9	2280.6	2243.2	2227.0	2172.1	2119.8	2087.6
15°	2441.0	2440.3	2441.7	2428.7	2412.3	2408.2	2368.6	2325.5	2248.3	2217.5	2164.2
17.5°	2410.7	2421.0	2425.8	2425.6	2425.3	2422.7	2409.9	2382.7	2344.0	2294.2	2232.7
20°	2338.5	2352.2	2354.2	2369.9	2378.8	2390.4	2395.2	2387.6	2363.7	2322.1	2268.8
22.5°	2227.0	2230.8	2237.2	2261.6	2280.9	2310.1	2325.2	2350.5	2341.4	2320.9	2276.4
25°	2033.7	2026.9	2050.8	2063.1	2107.5	2153.9	2187.5	2224.4	2257.2	2277.0	2264.0
27.5°	1801.6	1791.4	1827.2	1859.8	1896.0	1946.2	1998.4	2060.0	2111.3	2175.4	2197.4
30°	1605.9	1612.0	1646.2	1681.1	1735.7	1806.8	1865.5	1933.2	2006.3	2078.1	2128.0
32.5°	1394.9	1418.5	1440.1	1493.5	1541.7	1621.0	1707.0	1791.6	1882.8	1964.4	2041.7
35°	1107.1	1134.3	1164.5	1203.4	1271.0	1349.6	1433.7	1547.8	1672.2	1783.6	1875.2
37.5°	931.8	927.5	944.7	972.9	1027.6	1091.1	1187.8	1300.6	1447.0	1577.9	1707.0
40°	826.9	824.1	836.4	862.4	904.1	950.6	1035.3	1134.3	1270.3	1430.3	1584.0
42.5°	754.7	756.3	763.2	781.5	810.0	848.3	911.8	996.0	1120.6	1271.2	1436.5
45°	667.0	671.7	679.3	688.1	704.5	736.0	771.5	831.7	930.1	1055.8	1218.4
47.5°	603.8	604.0	611.6	619.4	629.1	646.8	675.8	713.5	783.0	885.4	1025.2
50°	569.9	565.2	570.6	576.8	587.0	599.3	618.4	654.0	700.4	783.1	900.0
52.5°	528.3	528.5	533.4	535.7	544.9	557.2	574.7	599.3	641.4	706.1	802.1
55°	468.8	472.2	474.9	479.0	487.2	496.1	509.8	526.2	559.0	607.5	678.6
57.5°	412.8	413.8	416.6	424.4	429.5	437.7	450.8	465.7	487.0	522.9	576.3
60°	374.5	374.5	380.0	383.3	390.2	398.4	408.7	423.0	442.1	471.5	514.6
62.5°	339.5	338.9	341.2	346.7	352.0	359.6	369.8	382.0	400.0	426.1	461.5
65°	288.4	287.0	291.1	292.5	297.9	305.5	313.7	326.6	341.0	360.2	391.6
67.5°	239.2	240.9	243.0	245.6	248.6	256.5	262.0	271.2	283.3	299.2	320.5
70°	211.9	211.9	211.9	213.9	218.0	222.1	227.6	235.1	246.7	260.4	279.5
72.5°	181.2	183.4	185.6	184.4	189.6	192.0	198.6	202.9	213.9	222.7	239.6
75°	142.1	142.1	142.1	145.5	147.6	149.6	153.7	157.8	163.4	174.2	183.2
77.5°	106.0	105.8	106.5	107.3	109.5	111.9	113.2	116.8	121.9	127.0	134.5
80°	82.0	83.4	84.1	85.4	85.4	86.8	87.5	92.3	95.7	99.1	103.9
82.5°	63.4	63.7	63.8	64.1	64.6	65.5	67.2	68.8	70.0	72.9	76.5
85°	36.9	36.2	36.2	37.5	36.9	36.9	38.3	39.6	39.6	40.3	42.4
87.5°	21.0	21.0	21.4	20.7	20.6	21.0	20.7	19.9	20.2	20.4	20.5
90°	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2	26.8	25.3	23.1
92.5°	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9	30.1	29.4	28.3
95°	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3	50.8	49.5	47.5
97.5°	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5	67.3	66.2	61.6
100°	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8	74.5	72.3	67.5
102.5°	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2	77.2	74.3	114.4
105°	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6	80.4	77.4	154.3
107.5°	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0	105.1	108.3	200.5
110°	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6	193.8	221.9	303.4



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2	457.0	559.8	579.9
115°	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6	652.0	782.5	775.4
117.5°	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6	835.2	866.7	861.8
120°	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4	933.0	929.6	924.5
122.5°	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5	991.5	989.4	983.9
125°	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6	1073.6	1071.7	1066.3
127.5°	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5	1148.6	1145.8	1141.7
130°	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6	1196.5	1193.4	1190.3
132.5°	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3	1243.8	1241.1	1238.0
135°	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1	1310.4	1307.5	1305.0
137.5°	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2	1372.4	1369.7	1366.8
140°	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3	1412.8	1410.2	1407.2
142.5°	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4	1450.1	1447.8	1444.2
145°	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2	1502.3	1500.3	1495.5
147.5°	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4	1547.9	1546.5	1541.8
150°	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3	1575.6	1573.9	1569.3
152.5°	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6	1600.9	1599.2	1594.9
155°	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8	1635.1	1633.4	1630.1
157.5°	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7	1663.8	1661.9	1659.5
160°	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5	1680.8	1679.1	1677.4
162.5°	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2	1696.3	1694.3	1692.9
165°	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3	1712.5
167.5°	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3	1731.3	1729.4	1728.6
170°	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4	1739.5	1737.5	1736.9
172.5°	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5	1745.5	1743.6	1743.0
175°	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1	1752.1	1750.2	1749.6
177.5°	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8	1753.3	1751.7	1751.4
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1824.6	1820.2	1817.5	1807.7	1798.8	1790.1	1787.4	1788.5	1776.5	1765.0	1760.1
5°	1895.7	1882.0	1869.0	1850.6	1828.7	1804.7	1792.4	1782.9	1759.0	1733.0	1718.0
7.5°	1959.4	1939.8	1914.8	1880.1	1848.2	1810.6	1786.7	1765.5	1730.5	1693.9	1671.5
10°	1998.1	1971.5	1939.4	1897.0	1858.1	1812.3	1780.1	1748.0	1707.0	1663.3	1635.9
12.5°	2031.5	1995.6	1964.0	1909.6	1863.5	1806.2	1768.2	1722.9	1679.7	1627.7	1601.0
15°	2110.9	2044.6	1984.5	1923.0	1866.3	1786.3	1743.9	1683.1	1626.4	1562.2	1531.4
17.5°	2172.3	2097.7	2003.0	1924.9	1858.8	1770.2	1708.0	1635.1	1568.1	1494.7	1452.9
20°	2207.3	2121.8	2020.0	1927.1	1847.8	1746.7	1679.0	1604.5	1526.0	1443.2	1398.2
22.5°	2228.0	2138.2	2037.6	1918.9	1826.0	1727.5	1642.4	1560.8	1481.1	1391.9	1344.6
25°	2234.6	2152.6	2046.0	1912.1	1798.6	1687.2	1584.7	1505.5	1409.1	1325.7	1256.7
27.5°	2202.1	2143.3	2040.8	1899.2	1767.0	1636.8	1522.5	1432.7	1331.1	1240.5	1171.2
30°	2162.1	2128.0	2028.2	1886.1	1741.9	1601.8	1476.0	1374.2	1273.1	1181.5	1110.4
32.5°	2100.4	2093.0	2005.3	1867.5	1715.1	1557.6	1427.5	1324.5	1212.5	1122.5	1054.7
35°	1979.1	2011.8	1956.5	1826.0	1664.6	1494.5	1353.7	1236.2	1120.1	1033.9	970.4
37.5°	1816.4	1897.8	1883.4	1765.1	1596.6	1425.9	1270.5	1147.6	1037.0	950.0	887.7
40°	1704.3	1808.2	1823.2	1718.7	1548.5	1372.9	1208.2	1085.8	977.9	898.7	835.7
42.5°	1584.0	1705.4	1746.7	1662.9	1496.0	1317.1	1152.4	1025.7	918.8	841.8	786.0
45°	1382.4	1543.0	1617.6	1569.7	1408.5	1225.3	1055.8	927.3	830.3	757.9	714.8
47.5°	1194.0	1369.5	1469.6	1452.7	1311.0	1129.6	962.1	838.7	744.3	686.5	648.0
50°	1060.6	1241.0	1361.9	1367.4	1241.0	1061.2	893.1	776.9	690.2	636.2	604.8
52.5°	944.7	1116.9	1248.8	1277.7	1162.8	990.2	831.3	715.8	639.4	589.8	561.6
55°	793.4	939.0	1085.2	1138.4	1046.2	882.3	735.3	633.5	561.7	527.5	502.9
57.5°	659.6	781.0	916.0	974.9	918.0	777.7	639.9	551.4	493.3	463.3	444.4
60°	589.1	684.7	805.0	875.4	826.2	701.2	580.9	496.8	449.0	422.3	404.6
62.5°	523.4	608.2	709.9	774.3	747.4	629.5	521.8	447.6	406.4	381.3	368.5
65°	431.9	498.8	577.5	636.9	619.1	529.6	441.5	377.9	345.1	325.3	315.0
67.5°	355.6	404.0	458.5	510.6	496.2	432.8	362.0	312.5	288.1	271.0	264.8
70°	307.6	344.4	393.0	434.6	423.0	371.0	315.0	272.7	251.5	237.1	231.0
72.5°	261.6	291.9	329.0	363.0	355.2	312.0	265.3	233.3	217.0	203.8	198.8
75°	197.5	220.7	243.3	265.8	263.8	230.3	203.0	178.3	165.4	155.2	153.1
77.5°	145.8	158.8	174.2	187.5	183.8	164.7	143.2	129.1	119.6	112.7	111.6
80°	111.4	118.9	129.8	139.4	134.6	126.4	109.3	99.1	92.3	85.4	82.7
82.5°	80.8	88.3	94.9	100.0	96.4	88.7	78.2	71.2	67.1	62.4	61.3
85°	42.4	46.5	49.2	50.6	49.2	44.4	39.6	36.9	33.5	31.5	30.8
87.5°	20.6	20.2	19.7	20.2	17.9	17.4	14.5	12.3	12.4	12.4	11.9
90°	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2	4.4	7.5	10.6
92.5°	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6	25.3	25.1	24.8
95°	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4	73.1	63.8	54.6
97.5°	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6	137.4	111.2	85.0
100°	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4	185.8	147.2	108.6
102.5°	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4	283.3	275.1	266.9
105°	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6	394.0	402.4	410.9
107.5°	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8	499.6	506.5	513.3
110°	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9	567.8	573.6	579.6



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8	632.0	637.2	642.5
115°	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2	734.1	738.8	743.6
117.5°	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8	826.2	831.5	836.9
120°	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8	892.0	896.2	900.4
122.5°	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6	949.0	953.5	958.0
125°	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1	1034.7	1038.4	1042.1
127.5°	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5	1113.5	1117.6	1121.6
130°	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1	1163.7	1168.1	1172.7
132.5°	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9	1213.7	1217.5	1221.4
135°	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9	1280.3	1284.9	1289.3
137.5°	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6	1345.7	1348.9	1352.0
140°	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2	1388.4	1390.7	1392.9
142.5°	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7	1424.7	1426.7	1428.8
145°	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1	1479.7	1479.4	1479.2
147.5°	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0	1528.9	1527.9	1526.8
150°	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5	1560.5	1558.5	1556.6
152.5°	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8	1587.7	1585.5	1583.2
155°	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7	1627.1	1624.6	1622.0
157.5°	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9	1658.8	1656.6	1654.5
160°	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1677.4	1675.8	1674.1
162.5°	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3	1693.7	1692.0	1690.3
165°	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2	1715.5	1713.8	1712.1
167.5°	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4	1731.7	1730.0	1728.3
170°	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6	1740.9	1739.2	1737.5
172.5°	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6	1747.0	1745.3	1743.6
175°	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5	1754.5	1752.6	1750.6
177.5°	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7	1756.2	1754.6	1753.0
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1754.6	1751.3	1739.8	1733.8	1724.0	1714.7	1708.7	1711.5	1713.6	1712.5	1710.8
5°	1704.3	1691.3	1671.5	1654.4	1642.1	1619.6	1610.0	1605.3	1601.2	1596.3	1591.5
7.5°	1644.4	1624.0	1595.5	1571.2	1548.2	1520.2	1504.2	1494.7	1484.8	1474.0	1464.5
10°	1601.8	1573.1	1543.0	1508.9	1481.6	1456.3	1433.7	1418.6	1405.0	1392.0	1382.4
12.5°	1557.0	1523.9	1486.7	1440.0	1409.9	1373.7	1370.3	1343.8	1322.4	1314.4	1303.1
15°	1485.6	1439.1	1392.0	1336.7	1312.8	1280.0	1259.5	1238.9	1220.5	1207.5	1204.1
17.5°	1404.6	1344.4	1297.5	1257.8	1218.6	1185.0	1166.1	1149.7	1134.5	1117.1	1114.8
20°	1342.8	1290.8	1239.7	1204.8	1164.5	1130.2	1107.1	1090.7	1077.6	1067.4	1058.5
22.5°	1284.3	1227.4	1180.5	1142.5	1102.7	1075.0	1056.8	1040.9	1030.1	1018.8	1010.4
25°	1190.4	1146.0	1094.8	1051.7	1018.9	1001.1	986.1	972.4	965.6	958.1	948.5
27.5°	1108.3	1058.9	1010.9	977.6	948.8	933.1	922.4	913.1	906.7	902.3	896.9
30°	1050.3	1000.4	962.9	930.1	906.2	890.5	883.6	878.2	870.6	867.9	865.1
32.5°	994.5	949.6	917.5	889.0	866.2	856.0	849.7	844.8	838.9	836.2	830.7
35°	915.7	878.2	846.7	831.0	812.5	803.6	798.9	792.0	786.6	783.8	783.1
37.5°	841.5	808.9	788.2	767.9	760.2	754.7	748.1	743.5	741.9	741.5	740.7
40°	793.4	766.7	748.3	731.9	728.4	720.2	714.8	710.7	710.7	711.4	710.7
42.5°	749.7	725.8	709.4	695.3	691.3	686.3	680.9	680.6	681.7	684.0	681.7
45°	683.4	666.3	654.7	647.8	640.3	635.5	634.8	636.9	637.6	638.3	640.3
47.5°	622.4	611.1	600.6	593.0	589.8	588.9	588.1	591.7	594.9	596.2	599.3
50°	586.3	573.4	564.5	559.6	557.0	555.5	557.0	561.1	563.7	567.2	569.3
52.5°	545.9	536.7	530.6	526.9	525.8	526.6	526.9	531.5	535.9	537.2	538.1
55°	490.0	483.1	481.8	475.6	478.3	477.7	481.1	483.8	487.9	492.0	492.7
57.5°	434.2	428.7	425.1	425.6	426.4	429.4	432.3	437.1	441.5	445.9	446.2
60°	397.1	394.3	392.3	392.3	393.6	397.7	401.1	405.9	408.7	411.3	413.4
62.5°	363.1	360.4	358.4	359.4	363.0	365.4	369.4	372.0	374.8	377.5	378.4
65°	309.6	308.2	310.2	311.7	312.3	315.8	320.5	322.5	325.3	326.6	331.4
67.5°	260.2	260.5	260.2	262.2	266.1	266.9	271.4	276.3	276.8	279.4	282.5
70°	226.9	228.3	229.6	231.0	234.4	235.8	239.2	241.2	244.0	246.0	248.1
72.5°	196.3	196.5	197.9	197.6	200.5	203.5	206.3	208.4	211.2	213.7	215.8
75°	151.1	151.1	152.4	153.1	156.5	159.9	159.3	160.6	163.4	166.0	167.5
77.5°	110.3	108.8	110.3	111.0	112.1	114.9	115.5	117.4	120.6	119.6	121.1
80°	84.1	82.0	84.1	84.7	84.7	88.2	88.2	89.5	91.6	89.5	91.6
82.5°	60.0	59.0	60.5	60.7	61.8	61.9	63.0	63.3	65.4	64.4	65.4
85°	30.1	29.4	30.1	29.4	30.1	30.8	30.8	30.1	30.1	31.5	29.4
87.5°	12.0	12.0	11.9	12.4	12.3	12.2	11.9	12.2	12.5	11.7	11.9
90°	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2	29.6	31.0	32.0
92.5°	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9	31.7	32.4	32.9
95°	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3	53.7	55.1	55.6
97.5°	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5	69.6	70.7	71.4
100°	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8	79.1	81.3	82.8
102.5°	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2	83.1	86.1	87.9
105°	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6	86.7	89.8	91.8
107.5°	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0	98.8	95.7	94.7
110°	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6	137.4	109.2	95.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2	251.4	148.6	97.6
115°	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6	391.0	260.6	185.1
117.5°	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6	772.0	740.5	691.3
120°	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4	939.8	943.2	925.8
122.5°	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5	995.6	997.6	994.9
125°	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6	1077.5	1079.5	1080.9
127.5°	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5	1154.3	1157.2	1158.8
130°	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6	1202.7	1205.8	1207.2
132.5°	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3	1249.0	1251.7	1252.9
135°	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1	1316.0	1318.8	1319.9
137.5°	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2	1378.0	1380.7	1381.6
140°	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3	1417.9	1420.4	1420.9
142.5°	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4	1454.7	1457.1	1457.5
145°	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2	1506.2	1508.2	1508.5
147.5°	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4	1550.9	1552.4	1552.5
150°	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3	1579.0	1580.6	1580.7
152.5°	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6	1604.3	1606.0	1605.9
155°	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8	1638.5	1640.2	1639.9
157.5°	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7	1667.6	1669.6	1669.4
160°	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5	1684.2	1685.9	1685.8
162.5°	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2	1700.1	1702.0	1701.7
165°	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3
167.5°	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3	1735.3	1737.2	1737.0
170°	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4	1743.4	1745.3	1745.1
172.5°	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5	1749.4	1751.4	1751.1
175°	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1	1756.0	1758.0	1757.7
177.5°	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8	1756.4	1758.0	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1705.4	1704.3	1704.3	1699.4	1704.3	1704.3	1705.4	1710.8	1712.5	1713.6	1711.5
5°	1582.0	1579.9	1576.5	1579.9	1576.5	1579.9	1582.0	1591.5	1596.3	1601.2	1605.3
7.5°	1459.9	1451.7	1450.5	1442.4	1450.5	1451.7	1459.9	1464.5	1474.0	1484.8	1494.7
10°	1370.8	1365.4	1364.7	1351.7	1364.7	1365.4	1370.8	1382.4	1392.0	1405.0	1418.6
12.5°	1303.1	1289.9	1292.5	1285.0	1292.5	1289.9	1303.1	1303.1	1314.4	1322.4	1343.8
15°	1185.6	1185.6	1182.9	1171.3	1182.9	1185.6	1185.6	1204.1	1207.5	1220.5	1238.9
17.5°	1101.4	1099.9	1093.4	1096.6	1093.4	1099.9	1101.4	1114.8	1117.1	1134.5	1149.7
20°	1051.0	1047.0	1038.8	1038.8	1038.8	1047.0	1051.0	1058.5	1067.4	1077.6	1090.7
22.5°	1003.4	1003.2	994.4	997.2	994.4	1003.2	1003.4	1010.4	1018.8	1030.1	1040.9
25°	947.8	942.4	938.3	940.3	938.3	942.4	947.8	948.5	958.1	965.6	972.4
27.5°	895.1	892.1	891.8	886.2	891.8	892.1	895.1	896.9	902.3	906.7	913.1
30°	864.4	857.6	859.0	855.6	859.0	857.6	864.4	865.1	867.9	870.6	878.2
32.5°	829.5	827.0	825.6	822.8	825.6	827.0	829.5	830.7	836.2	838.9	844.8
35°	781.8	782.5	779.0	780.4	779.0	782.5	781.8	783.1	783.8	786.6	792.0
37.5°	740.1	742.3	740.7	741.0	740.7	742.3	740.1	740.7	741.5	741.9	743.5
40°	712.7	712.7	712.7	714.8	712.7	712.7	712.7	710.7	711.4	710.7	710.7
42.5°	686.5	685.5	684.3	684.2	684.3	685.5	686.5	681.7	684.0	681.7	680.6
45°	641.7	643.7	644.4	641.0	644.4	643.7	641.7	640.3	638.3	637.6	636.9
47.5°	601.1	601.4	601.1	604.1	601.1	601.4	601.1	599.3	596.2	594.9	591.7
50°	572.7	571.3	572.7	571.3	572.7	571.3	572.7	569.3	567.2	563.7	561.1
52.5°	542.6	542.9	542.1	541.8	542.1	542.9	542.6	538.1	537.2	535.9	531.5
55°	495.4	496.8	496.1	496.1	496.1	496.8	495.4	492.7	492.0	487.9	483.8
57.5°	446.7	447.9	448.8	445.9	448.8	447.9	446.7	446.2	445.9	441.5	437.1
60°	412.8	416.2	415.4	414.1	415.4	416.2	412.8	413.4	411.3	408.7	405.9
62.5°	381.6	382.8	382.7	382.5	382.7	382.8	381.6	378.4	377.5	374.8	372.0
65°	333.5	334.8	332.8	334.8	332.8	334.8	333.5	331.4	326.6	325.3	322.5
67.5°	281.7	282.1	283.6	284.5	283.6	282.1	281.7	282.5	279.4	276.8	276.3
70°	249.4	248.8	250.8	252.9	250.8	248.8	249.4	248.1	246.0	244.0	241.2
72.5°	215.5	217.0	216.3	217.8	216.3	217.0	215.5	215.8	213.7	211.2	208.4
75°	166.0	168.1	167.5	169.5	167.5	168.1	166.0	167.5	166.0	163.4	160.6
77.5°	120.0	120.3	120.0	121.1	120.0	120.3	120.0	121.1	119.6	120.6	117.4
80°	91.6	90.2	88.8	91.6	88.8	90.2	91.6	91.6	89.5	91.6	89.5
82.5°	63.7	64.5	63.1	63.1	63.1	64.5	63.7	65.4	64.4	65.4	63.3
85°	29.4	28.7	27.4	27.4	27.4	28.7	29.4	29.4	31.5	30.1	30.1
87.5°	11.9	11.5	11.7	11.2	11.7	11.5	11.9	11.9	11.7	12.5	12.2
90°	32.5	33.1	33.7	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2
92.5°	33.3	33.5	33.9	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9
95°	55.4	55.1	54.8	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3
97.5°	71.8	72.1	72.5	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5
100°	83.3	83.8	84.4	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8
102.5°	88.7	89.4	90.2	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2
105°	93.0	94.2	95.2	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6
107.5°	95.8	96.9	98.1	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0
110°	96.8	97.9	99.1	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	98.5	99.4	100.3	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2
115°	164.9	144.5	124.3	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6
117.5°	624.6	557.9	491.2	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6
120°	887.8	849.7	811.6	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4
122.5°	987.5	980.2	972.8	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5
125°	1081.8	1082.6	1083.5	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6
127.5°	1158.9	1159.0	1159.2	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5
130°	1206.9	1206.7	1206.4	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6
132.5°	1252.6	1252.3	1252.1	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3
135°	1319.4	1318.8	1318.2	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1
137.5°	1380.6	1379.7	1378.8	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2
140°	1419.6	1418.2	1416.8	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3
142.5°	1456.1	1454.6	1453.3	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4
145°	1507.1	1505.7	1504.2	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2
147.5°	1551.3	1550.2	1548.9	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4
150°	1579.4	1578.0	1576.5	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3
152.5°	1604.0	1602.2	1600.4	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6
155°	1637.7	1635.5	1633.2	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8
157.5°	1667.2	1665.0	1662.8	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7
160°	1683.8	1681.8	1679.8	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5
162.5°	1699.3	1696.9	1694.5	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2
165°	1719.3	1717.3	1715.4	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3
167.5°	1734.5	1731.9	1729.4	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3
170°	1742.6	1740.0	1737.5	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4
172.5°	1748.6	1746.1	1743.6	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5
175°	1754.8	1751.9	1749.2	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1
177.5°	1755.7	1753.7	1751.7	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1708.7	1714.7	1724.0	1733.8	1739.8	1751.3	1754.6	1760.1	1765.0	1776.5	1788.5
5°	1610.0	1619.6	1642.1	1654.4	1671.5	1691.3	1704.3	1718.0	1733.0	1759.0	1782.9
7.5°	1504.2	1520.2	1548.2	1571.2	1595.5	1624.0	1644.4	1671.5	1693.9	1730.5	1765.5
10°	1433.7	1456.3	1481.6	1508.9	1543.0	1573.1	1601.8	1635.9	1663.3	1707.0	1748.0
12.5°	1370.3	1373.7	1409.9	1440.0	1486.7	1523.9	1557.0	1601.0	1627.7	1679.7	1722.9
15°	1259.5	1280.0	1312.8	1336.7	1392.0	1439.1	1485.6	1531.4	1562.2	1626.4	1683.1
17.5°	1166.1	1185.0	1218.6	1257.8	1297.5	1344.4	1404.6	1452.9	1494.7	1568.1	1635.1
20°	1107.1	1130.2	1164.5	1204.8	1239.7	1290.8	1342.8	1398.2	1443.2	1526.0	1604.5
22.5°	1056.8	1075.0	1102.7	1142.5	1180.5	1227.4	1284.3	1344.6	1391.9	1481.1	1560.8
25°	986.1	1001.1	1018.9	1051.7	1094.8	1146.0	1190.4	1256.7	1325.7	1409.1	1505.5
27.5°	922.4	933.1	948.8	977.6	1010.9	1058.9	1108.3	1171.2	1240.5	1331.1	1432.7
30°	883.6	890.5	906.2	930.1	962.9	1000.4	1050.3	1110.4	1181.5	1273.1	1374.2
32.5°	849.7	856.0	866.2	889.0	917.5	949.6	994.5	1054.7	1122.5	1212.5	1324.5
35°	798.9	803.6	812.5	831.0	846.7	878.2	915.7	970.4	1033.9	1120.1	1236.2
37.5°	748.1	754.7	760.2	767.9	788.2	808.9	841.5	887.7	950.0	1037.0	1147.6
40°	714.8	720.2	728.4	731.9	748.3	766.7	793.4	835.7	898.7	977.9	1085.8
42.5°	680.9	686.3	691.3	695.3	709.4	725.8	749.7	786.0	841.8	918.8	1025.7
45°	634.8	635.5	640.3	647.8	654.7	666.3	683.4	714.8	757.9	830.3	927.3
47.5°	588.1	588.9	589.8	593.0	600.6	611.1	622.4	648.0	686.5	744.3	838.7
50°	557.0	555.5	557.0	559.6	564.5	573.4	586.3	604.8	636.2	690.2	776.9
52.5°	526.9	526.6	525.8	526.9	530.6	536.7	545.9	561.6	589.8	639.4	715.8
55°	481.1	477.7	478.3	475.6	481.8	483.1	490.0	502.9	527.5	561.7	633.5
57.5°	432.3	429.4	426.4	425.6	425.1	428.7	434.2	444.4	463.3	493.3	551.4
60°	401.1	397.7	393.6	392.3	392.3	394.3	397.1	404.6	422.3	449.0	496.8
62.5°	369.4	365.4	363.0	359.4	358.4	360.4	363.1	368.5	381.3	406.4	447.6
65°	320.5	315.8	312.3	311.7	310.2	308.2	309.6	315.0	325.3	345.1	377.9
67.5°	271.4	266.9	266.1	262.2	260.2	260.5	260.2	264.8	271.0	288.1	312.5
70°	239.2	235.8	234.4	231.0	229.6	228.3	226.9	231.0	237.1	251.5	272.7
72.5°	206.3	203.5	200.5	197.6	197.9	196.5	196.3	198.8	203.8	217.0	233.3
75°	159.3	159.9	156.5	153.1	152.4	151.1	151.1	153.1	155.2	165.4	178.3
77.5°	115.5	114.9	112.1	111.0	110.3	108.8	110.3	111.6	112.7	119.6	129.1
80°	88.2	88.2	84.7	84.7	84.1	82.0	84.1	82.7	85.4	92.3	99.1
82.5°	63.0	61.9	61.8	60.7	60.5	59.0	60.0	61.3	62.4	67.1	71.2
85°	30.8	30.8	30.1	29.4	30.1	29.4	30.1	30.8	31.5	33.5	36.9
87.5°	11.9	12.2	12.3	12.4	11.9	12.0	12.0	11.9	12.4	12.4	12.3
90°	26.8	25.3	23.1	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2
92.5°	30.1	29.4	28.3	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6
95°	50.8	49.5	47.5	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4
97.5°	67.3	66.2	61.6	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6
100°	74.5	72.3	67.5	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4
102.5°	77.2	74.3	114.4	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4
105°	80.4	77.4	154.3	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6
107.5°	105.1	108.3	200.5	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8
110°	193.8	221.9	303.4	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	457.0	559.8	579.9	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8
115°	652.0	782.5	775.4	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2
117.5°	835.2	866.7	861.8	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8
120°	933.0	929.6	924.5	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8
122.5°	991.5	989.4	983.9	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6
125°	1073.6	1071.7	1066.3	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1
127.5°	1148.6	1145.8	1141.7	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5
130°	1196.5	1193.4	1190.3	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1
132.5°	1243.8	1241.1	1238.0	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9
135°	1310.4	1307.5	1305.0	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9
137.5°	1372.4	1369.7	1366.8	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6
140°	1412.8	1410.2	1407.2	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2
142.5°	1450.1	1447.8	1444.2	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7
145°	1502.3	1500.3	1495.5	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1
147.5°	1547.9	1546.5	1541.8	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0
150°	1575.6	1573.9	1569.3	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5
152.5°	1600.9	1599.2	1594.9	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8
155°	1635.1	1633.4	1630.1	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7
157.5°	1663.8	1661.9	1659.5	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9
160°	1680.8	1679.1	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1
162.5°	1696.3	1694.3	1692.9	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3
165°	1715.4	1713.3	1712.5	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2
167.5°	1731.3	1729.4	1728.6	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4
170°	1739.5	1737.5	1736.9	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6
172.5°	1745.5	1743.6	1743.0	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6
175°	1752.1	1750.2	1749.6	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5
177.5°	1753.3	1751.7	1751.4	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1787.4	1790.1	1798.8	1807.7	1817.5	1820.2	1824.6	1820.8	1819.6	1830.1	1837.7
5°	1792.4	1804.7	1828.7	1850.6	1869.0	1882.0	1895.7	1901.1	1911.4	1925.7	1943.5
7.5°	1786.7	1810.6	1848.2	1880.1	1914.8	1939.8	1959.4	1976.0	1996.3	2023.5	2053.1
10°	1780.1	1812.3	1858.1	1897.0	1939.4	1971.5	1998.1	2024.1	2054.2	2091.8	2130.7
12.5°	1768.2	1806.2	1863.5	1909.6	1964.0	1995.6	2031.5	2087.6	2119.8	2172.1	2227.0
15°	1743.9	1786.3	1866.3	1923.0	1984.5	2044.6	2110.9	2164.2	2217.5	2248.3	2325.5
17.5°	1708.0	1770.2	1858.8	1924.9	2003.0	2097.7	2172.3	2232.7	2294.2	2344.0	2382.7
20°	1679.0	1746.7	1847.8	1927.1	2020.0	2121.8	2207.3	2268.8	2322.1	2363.7	2387.6
22.5°	1642.4	1727.5	1826.0	1918.9	2037.6	2138.2	2228.0	2276.4	2320.9	2341.4	2350.5
25°	1584.7	1687.2	1798.6	1912.1	2046.0	2152.6	2234.6	2264.0	2277.0	2257.2	2224.4
27.5°	1522.5	1636.8	1767.0	1899.2	2040.8	2143.3	2202.1	2197.4	2175.4	2111.3	2060.0
30°	1476.0	1601.8	1741.9	1886.1	2028.2	2128.0	2162.1	2128.0	2078.1	2006.3	1933.2
32.5°	1427.5	1557.6	1715.1	1867.5	2005.3	2093.0	2100.4	2041.7	1964.4	1882.8	1791.6
35°	1353.7	1494.5	1664.6	1826.0	1956.5	2011.8	1979.1	1875.2	1783.6	1672.2	1547.8
37.5°	1270.5	1425.9	1596.6	1765.1	1883.4	1897.8	1816.4	1707.0	1577.9	1447.0	1300.6
40°	1208.2	1372.9	1548.5	1718.7	1823.2	1808.2	1704.3	1584.0	1430.3	1270.3	1134.3
42.5°	1152.4	1317.1	1496.0	1662.9	1746.7	1705.4	1584.0	1436.5	1271.2	1120.6	996.0
45°	1055.8	1225.3	1408.5	1569.7	1617.6	1543.0	1382.4	1218.4	1055.8	930.1	831.7
47.5°	962.1	1129.6	1311.0	1452.7	1469.6	1369.5	1194.0	1025.2	885.4	783.0	713.5
50°	893.1	1061.2	1241.0	1367.4	1361.9	1241.0	1060.6	900.0	783.1	700.4	654.0
52.5°	831.3	990.2	1162.8	1277.7	1248.8	1116.9	944.7	802.1	706.1	641.4	599.3
55°	735.3	882.3	1046.2	1138.4	1085.2	939.0	793.4	678.6	607.5	559.0	526.2
57.5°	639.9	777.7	918.0	974.9	916.0	781.0	659.6	576.3	522.9	487.0	465.7
60°	580.9	701.2	826.2	875.4	805.0	684.7	589.1	514.6	471.5	442.1	423.0
62.5°	521.8	629.5	747.4	774.3	709.9	608.2	523.4	461.5	426.1	400.0	382.0
65°	441.5	529.6	619.1	636.9	577.5	498.8	431.9	391.6	360.2	341.0	326.6
67.5°	362.0	432.8	496.2	510.6	458.5	404.0	355.6	320.5	299.2	283.3	271.2
70°	315.0	371.0	423.0	434.6	393.0	344.4	307.6	279.5	260.4	246.7	235.1
72.5°	265.3	312.0	355.2	363.0	329.0	291.9	261.6	239.6	222.7	213.9	202.9
75°	203.0	230.3	263.8	265.8	243.3	220.7	197.5	183.2	174.2	163.4	157.8
77.5°	143.2	164.7	183.8	187.5	174.2	158.8	145.8	134.5	127.0	121.9	116.8
80°	109.3	126.4	134.6	139.4	129.8	118.9	111.4	103.9	99.1	95.7	92.3
82.5°	78.2	88.7	96.4	100.0	94.9	88.3	80.8	76.5	72.9	70.0	68.8
85°	39.6	44.4	49.2	50.6	49.2	46.5	42.4	42.4	40.3	39.6	39.6
87.5°	14.5	17.4	17.9	20.2	19.7	20.2	20.6	20.5	20.4	20.2	19.9
90°	4.4	7.5	10.6	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2
92.5°	25.3	25.1	24.8	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9
95°	73.1	63.8	54.6	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3
97.5°	137.4	111.2	85.0	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5
100°	185.8	147.2	108.6	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8
102.5°	283.3	275.1	266.9	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2
105°	394.0	402.4	410.9	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6
107.5°	499.6	506.5	513.3	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0
110°	567.8	573.6	579.6	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	632.0	637.2	642.5	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2
115°	734.1	738.8	743.6	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6
117.5°	826.2	831.5	836.9	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6
120°	892.0	896.2	900.4	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4
122.5°	949.0	953.5	958.0	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5
125°	1034.7	1038.4	1042.1	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6
127.5°	1113.5	1117.6	1121.6	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5
130°	1163.7	1168.1	1172.7	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6
132.5°	1213.7	1217.5	1221.4	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3
135°	1280.3	1284.9	1289.3	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1
137.5°	1345.7	1348.9	1352.0	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2
140°	1388.4	1390.7	1392.9	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3
142.5°	1424.7	1426.7	1428.8	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4
145°	1479.7	1479.4	1479.2	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2
147.5°	1528.9	1527.9	1526.8	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4
150°	1560.5	1558.5	1556.6	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3
152.5°	1587.7	1585.5	1583.2	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6
155°	1627.1	1624.6	1622.0	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8
157.5°	1658.8	1656.6	1654.5	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7
160°	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5
162.5°	1693.7	1692.0	1690.3	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2
165°	1715.5	1713.8	1712.1	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3
167.5°	1731.7	1730.0	1728.3	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3
170°	1740.9	1739.2	1737.5	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4
172.5°	1747.0	1745.3	1743.6	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5
175°	1754.5	1752.6	1750.6	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1
177.5°	1756.2	1754.6	1753.0	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1844.2	1851.9	1851.9	1853.0	1861.7	1860.6	1860.1
5°	1962.7	1974.2	1975.6	1987.9	1996.1	1993.3	1985.8
7.5°	2074.3	2095.9	2112.3	2121.5	2132.3	2138.9	2135.9
10°	2162.8	2194.3	2213.4	2226.4	2242.1	2253.7	2249.6
12.5°	2243.2	2280.6	2306.9	2329.1	2331.2	2346.1	2336.0
15°	2368.6	2408.2	2412.3	2428.7	2441.7	2440.3	2441.0
17.5°	2409.9	2422.7	2425.3	2425.6	2425.8	2421.0	2410.7
20°	2395.2	2390.4	2378.8	2369.9	2354.2	2352.2	2338.5
22.5°	2325.2	2310.1	2280.9	2261.6	2237.2	2230.8	2227.0
25°	2187.5	2153.9	2107.5	2063.1	2050.8	2026.9	2033.7
27.5°	1998.4	1946.2	1896.0	1859.8	1827.2	1791.4	1801.6
30°	1865.5	1806.8	1735.7	1681.1	1646.2	1612.0	1605.9
32.5°	1707.0	1621.0	1541.7	1493.5	1440.1	1418.5	1394.9
35°	1433.7	1349.6	1271.0	1203.4	1164.5	1134.3	1107.1
37.5°	1187.8	1091.1	1027.6	972.9	944.7	927.5	931.8
40°	1035.3	950.6	904.1	862.4	836.4	824.1	826.9
42.5°	911.8	848.3	810.0	781.5	763.2	756.3	754.7
45°	771.5	736.0	704.5	688.1	679.3	671.7	667.0
47.5°	675.8	646.8	629.1	619.4	611.6	604.0	603.8
50°	618.4	599.3	587.0	576.8	570.6	565.2	569.9
52.5°	574.7	557.2	544.9	535.7	533.4	528.5	528.3
55°	509.8	496.1	487.2	479.0	474.9	472.2	468.8
57.5°	450.8	437.7	429.5	424.4	416.6	413.8	412.8
60°	408.7	398.4	390.2	383.3	380.0	374.5	374.5
62.5°	369.8	359.6	352.0	346.7	341.2	338.9	339.5
65°	313.7	305.5	297.9	292.5	291.1	287.0	288.4
67.5°	262.0	256.5	248.6	245.6	243.0	240.9	239.2
70°	227.6	222.1	218.0	213.9	211.9	211.9	211.9
72.5°	198.6	192.0	189.6	184.4	185.6	183.4	181.2
75°	153.7	149.6	147.6	145.5	142.1	142.1	142.1
77.5°	113.2	111.9	109.5	107.3	106.5	105.8	106.0
80°	87.5	86.8	85.4	85.4	84.1	83.4	82.0
82.5°	67.2	65.5	64.6	64.1	63.8	63.7	63.4
85°	38.3	36.9	36.9	37.5	36.2	36.2	36.9
87.5°	20.7	21.0	20.6	20.7	21.4	21.0	21.0
90°	29.6	31.0	32.0	32.5	33.1	33.7	34.2
92.5°	31.7	32.4	32.9	33.3	33.5	33.9	34.2
95°	53.7	55.1	55.6	55.4	55.1	54.8	54.6
97.5°	69.6	70.7	71.4	71.8	72.1	72.5	72.8
100°	79.1	81.3	82.8	83.3	83.8	84.4	85.0
102.5°	83.1	86.1	87.9	88.7	89.4	90.2	91.0
105°	86.7	89.8	91.8	93.0	94.2	95.2	96.4
107.5°	98.8	95.7	94.7	95.8	96.9	98.1	99.2
110°	137.4	109.2	95.7	96.8	97.9	99.1	100.2



TEST NUMBER: P331609-940

CATALOG NUMBER: S122DIW-S1005D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	251.4	148.6	97.6	98.5	99.4	100.3	101.2
115°	391.0	260.6	185.1	164.9	144.5	124.3	104.0
117.5°	772.0	740.5	691.3	624.6	557.9	491.2	424.6
120°	939.8	943.2	925.8	887.8	849.7	811.6	773.6
122.5°	995.6	997.6	994.9	987.5	980.2	972.8	965.4
125°	1077.5	1079.5	1080.9	1081.8	1082.6	1083.5	1084.3
127.5°	1154.3	1157.2	1158.8	1158.9	1159.0	1159.2	1159.4
130°	1202.7	1205.8	1207.2	1206.9	1206.7	1206.4	1206.0
132.5°	1249.0	1251.7	1252.9	1252.6	1252.3	1252.1	1251.7
135°	1316.0	1318.8	1319.9	1319.4	1318.8	1318.2	1317.7
137.5°	1378.0	1380.7	1381.6	1380.6	1379.7	1378.8	1377.8
140°	1417.9	1420.4	1420.9	1419.6	1418.2	1416.8	1415.3
142.5°	1454.7	1457.1	1457.5	1456.1	1454.6	1453.3	1451.9
145°	1506.2	1508.2	1508.5	1507.1	1505.7	1504.2	1502.9
147.5°	1550.9	1552.4	1552.5	1551.3	1550.2	1548.9	1547.7
150°	1579.0	1580.6	1580.7	1579.4	1578.0	1576.5	1575.1
152.5°	1604.3	1606.0	1605.9	1604.0	1602.2	1600.4	1598.5
155°	1638.5	1640.2	1639.9	1637.7	1635.5	1633.2	1630.9
157.5°	1667.6	1669.6	1669.4	1667.2	1665.0	1662.8	1660.6
160°	1684.2	1685.9	1685.8	1683.8	1681.8	1679.8	1677.8
162.5°	1700.1	1702.0	1701.7	1699.3	1696.9	1694.5	1692.1
165°	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3
167.5°	1735.3	1737.2	1737.0	1734.5	1731.9	1729.4	1726.8
170°	1743.4	1745.3	1745.1	1742.6	1740.0	1737.5	1734.9
172.5°	1749.4	1751.4	1751.1	1748.6	1746.1	1743.6	1741.0
175°	1756.0	1758.0	1757.7	1754.8	1751.9	1749.2	1746.3
177.5°	1756.4	1758.0	1757.7	1755.7	1753.7	1751.7	1749.6
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7

(END OF REPORT)