

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: P331597-935

Luminaire Tested: **S122DIW-S1005D970U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331597-935
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-S1005D970U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7122.6 lumens
Efficiency: N/A
Efficacy: 105.7 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

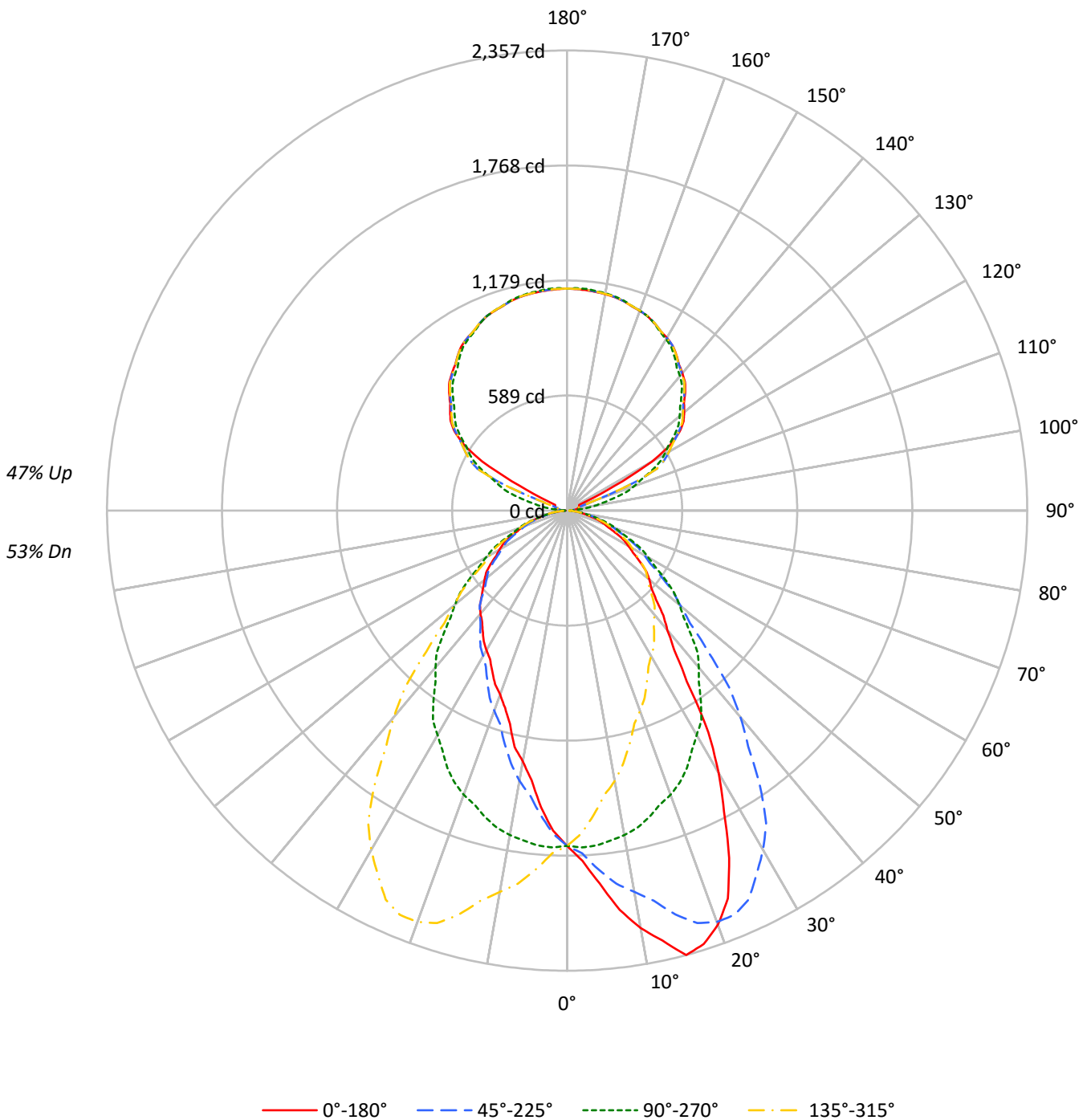
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27719	27719	27719	27719
5°	31076	27901	24725	27901
10°	35611	27671	21397	27671
15°	39397	27164	18903	27164
20°	38797	26620	17234	26620
25°	34983	25896	16174	25896
30°	28909	24738	15401	24738
35°	21068	23526	14852	23526
40°	16828	22097	14547	22097
45°	14705	20445	14132	20445
50°	13823	18844	13855	18844
55°	12740	17219	13486	17219
60°	11677	15490	12910	15490
65°	10636	13941	12351	13941
70°	9659	12430	11528	12430
75°	8559	10742	10212	10742
80°	7364	8898	8219	8898
85°	6595	6595	4891	6595



TEST NUMBER: P331597-935

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	2.3
10°-20°	475.3	6.7
20°-30°	689.9	9.7
30°-40°	728.0	10.2
40°-50°	644.6	9.0
50°-60°	514.4	7.2
60°-70°	349.6	4.9
70°-80°	179.3	2.5
80°-90°	46.0	0.6
90°-100°	37.9	0.5
100°-110°	139.1	2.0
110°-120°	371.8	5.2
120°-130°	613.7	8.6
130°-140°	652.7	9.2
140°-150°	606.6	8.5
150°-160°	487.7	6.8
160°-170°	314.3	4.4
170°-180°	108.2	1.5
0°-30°	1328.7	18.7
0°-40°	2056.7	28.9
0°-60°	3215.7	45.1
0°-90°	3790.6	53.2
90°-120°	548.8	7.7
90°-150°	2421.8	34.0
90°-180°	3332.0	46.8
0°-180°	7122.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1717	1717	1717	1717	1717	
5°	1917	1722	1526	1722	1917	191
15°	2357	1625	1131	1625	2357	650
25°	1964	1454	908	1454	1964	888
35°	1069	1194	754	1194	1069	695
45°	644	895	619	895	644	506
55°	453	612	479	612	453	406
65°	278	365	323	365	278	277
75°	137	172	164	172	137	147
85°	36	36	26	36	36	40
90°	22	1	22	1	22	12
95°	35	54	35	54	35	33
105°	62	250	62	250	62	65
115°	68	473	68	473	68	169
125°	703	669	703	669	703	609
135°	855	828	855	828	855	659
145°	975	960	975	960	975	610
155°	1058	1057	1058	1057	1058	488
165°	1112	1114	1112	1114	1112	314
175°	1133	1139	1133	1139	1133	108
180°	1137	1137	1137	1137	1137	



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1796.0	1796.6	1797.6	1789.2	1788.1	1788.1	1780.7	1774.4	1767.0	1757.0	1758.1
5°	1917.4	1924.7	1927.3	1919.4	1907.5	1906.3	1895.1	1876.5	1859.4	1845.6	1835.7
7.5°	2062.4	2065.3	2058.8	2048.4	2039.5	2023.7	2002.9	1982.4	1953.8	1927.5	1908.0
10°	2172.1	2176.1	2164.9	2149.7	2137.2	2118.7	2088.4	2057.4	2019.7	1983.5	1954.4
12.5°	2255.6	2265.3	2250.9	2248.9	2227.5	2202.1	2165.9	2150.3	2097.3	2046.8	2015.7
15°	2356.9	2356.2	2357.6	2345.0	2329.2	2325.2	2287.0	2245.4	2170.8	2141.1	2089.6
17.5°	2327.6	2337.6	2342.3	2342.1	2341.7	2339.3	2326.9	2300.7	2263.3	2215.2	2155.8
20°	2258.0	2271.1	2273.1	2288.3	2296.9	2308.1	2312.7	2305.4	2282.3	2242.1	2190.6
22.5°	2150.3	2154.0	2160.2	2183.8	2202.4	2230.5	2245.1	2269.5	2260.7	2241.0	2198.0
25°	1963.7	1957.1	1980.1	1992.0	2034.9	2079.7	2112.1	2147.8	2179.4	2198.6	2186.0
27.5°	1739.6	1729.7	1764.3	1795.8	1830.7	1879.2	1929.6	1989.1	2038.6	2100.5	2121.8
30°	1550.6	1556.5	1589.5	1623.2	1675.9	1744.6	1801.3	1866.6	1937.2	2006.6	2054.7
32.5°	1346.9	1369.7	1390.5	1442.1	1488.6	1565.1	1648.2	1729.9	1818.0	1896.8	1971.3
35°	1068.9	1095.3	1124.4	1161.9	1227.3	1303.1	1384.3	1494.5	1614.6	1722.2	1810.6
37.5°	899.7	895.5	912.1	939.4	992.2	1053.5	1146.9	1255.8	1397.1	1523.5	1648.2
40°	798.4	795.7	807.6	832.7	873.0	917.8	999.6	1095.3	1226.6	1381.0	1529.5
42.5°	728.8	730.3	736.9	754.6	782.1	819.1	880.4	961.7	1082.0	1227.4	1387.0
45°	644.0	648.6	655.9	664.4	680.3	710.7	744.9	803.1	898.0	1019.4	1176.5
47.5°	583.0	583.2	590.6	598.1	607.4	624.6	652.6	689.0	756.0	854.9	989.9
50°	550.3	545.7	551.0	556.9	566.8	578.7	597.1	631.5	676.3	756.1	869.0
52.5°	510.1	510.3	515.1	517.3	526.2	538.0	554.9	578.7	619.3	681.7	774.5
55°	452.6	455.9	458.6	462.5	470.5	479.1	492.2	508.1	539.8	586.6	655.2
57.5°	398.6	399.6	402.3	409.7	414.7	422.7	435.2	449.6	470.2	504.9	556.5
60°	361.6	361.6	366.9	370.1	376.8	384.7	394.6	408.5	426.9	455.3	496.9
62.5°	327.8	327.3	329.4	334.8	339.8	347.2	357.1	368.9	386.2	411.5	445.7
65°	278.4	277.2	281.1	282.4	287.7	295.0	302.9	315.4	329.2	347.8	378.1
67.5°	230.9	232.6	234.6	237.1	240.0	247.7	253.0	261.8	273.5	288.9	309.4
70°	204.6	204.6	204.6	206.6	210.5	214.5	219.7	227.0	238.2	251.4	269.8
72.5°	175.0	177.1	179.2	178.1	183.0	185.4	191.7	195.9	206.6	215.0	231.4
75°	137.2	137.2	137.2	140.5	142.5	144.5	148.4	152.4	157.7	168.2	176.8
77.5°	102.4	102.1	102.8	103.6	105.7	108.1	109.3	112.8	117.7	122.6	129.8
80°	79.2	80.5	81.2	82.5	82.5	83.8	84.5	89.1	92.4	95.7	100.3
82.5°	61.2	61.5	61.6	61.9	62.4	63.2	64.9	66.4	67.6	70.3	73.9
85°	35.6	35.0	35.0	36.2	35.6	35.6	36.9	38.2	38.2	38.9	40.9
87.5°	18.2	18.1	18.5	17.9	17.9	18.3	18.1	17.4	17.7	18.1	18.3
90°	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3	17.4	16.4	15.0
92.5°	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1	19.5	19.1	18.3
95°	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9	33.0	32.1	30.8
97.5°	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4	43.7	43.0	40.0
100°	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9	48.4	46.9	43.8
102.5°	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0	50.1	48.2	44.2
105°	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2	52.2	50.2	46.1
107.5°	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1	68.2	70.3	74.1
110°	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4	125.7	144.0	196.8



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7	296.4	363.2	376.2
115°	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3	422.9	507.6	503.1
117.5°	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2	541.7	562.2	559.1
120°	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4	605.3	603.0	599.8
122.5°	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5	643.2	641.9	638.3
125°	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8	696.5	695.2	691.7
127.5°	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0	745.1	743.2	740.6
130°	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2	776.2	774.2	772.1
132.5°	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6	806.8	805.1	803.1
135°	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9	850.1	848.3	846.5
137.5°	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1	890.4	888.6	886.7
140°	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2	916.5	914.9	912.8
142.5°	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2	940.7	939.2	936.9
145°	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9	974.6	973.3	970.2
147.5°	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1	1004.2	1003.2	1000.1
150°	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2	1022.1	1021.0	1018.0
152.5°	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7	1038.5	1037.4	1034.7
155°	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9	1060.8	1059.6	1057.5
157.5°	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6	1079.3	1078.1	1076.5
160°	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5	1090.4	1089.3	1088.2
162.5°	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6	1100.4	1099.2	1098.2
165°	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5	1110.9
167.5°	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4	1123.1	1121.9	1121.4
170°	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7	1128.4	1127.1	1126.8
172.5°	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6	1132.4	1131.1	1130.7
175°	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9	1136.6	1135.3	1135.0
177.5°	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4	1137.4	1136.3	1136.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1761.8	1757.6	1754.9	1745.4	1736.9	1728.5	1725.9	1726.9	1715.3	1704.2	1699.4
5°	1830.4	1817.1	1804.7	1786.8	1765.7	1742.6	1730.7	1721.5	1698.4	1673.4	1658.8
7.5°	1891.9	1873.0	1848.8	1815.3	1784.6	1748.3	1725.2	1704.7	1670.9	1635.6	1613.9
10°	1929.3	1903.6	1872.6	1831.7	1794.1	1749.9	1718.8	1687.8	1648.2	1606.0	1579.6
12.5°	1961.5	1926.8	1896.4	1843.8	1799.3	1744.0	1707.3	1663.5	1621.9	1571.7	1545.8
15°	2038.2	1974.2	1916.2	1856.7	1802.0	1724.8	1683.9	1625.1	1570.4	1508.4	1478.7
17.5°	2097.5	2025.5	1934.1	1858.6	1794.8	1709.3	1649.2	1578.8	1514.1	1443.2	1402.8
20°	2131.2	2048.7	1950.4	1860.7	1784.2	1686.5	1621.2	1549.3	1473.4	1393.5	1350.0
22.5°	2151.3	2064.6	1967.4	1852.8	1763.1	1668.0	1585.8	1507.0	1430.1	1343.9	1298.3
25°	2157.7	2078.5	1975.6	1846.2	1736.6	1629.1	1530.2	1453.6	1360.6	1280.0	1213.4
27.5°	2126.2	2069.5	1970.5	1833.8	1706.2	1580.5	1470.1	1383.4	1285.2	1197.8	1130.8
30°	2087.7	2054.7	1958.3	1821.1	1681.9	1546.6	1425.2	1326.9	1229.2	1140.8	1072.2
32.5°	2028.1	2020.9	1936.2	1803.2	1656.0	1503.9	1378.3	1278.8	1170.7	1083.8	1018.4
35°	1910.9	1942.5	1889.1	1763.1	1607.3	1443.0	1307.1	1193.6	1081.5	998.3	936.9
37.5°	1753.9	1832.5	1818.5	1704.3	1541.6	1376.8	1226.8	1108.1	1001.3	917.3	857.1
40°	1645.6	1745.9	1760.4	1659.5	1495.2	1325.6	1166.6	1048.4	944.2	867.7	806.9
42.5°	1529.5	1646.7	1686.5	1605.6	1444.5	1271.8	1112.8	990.4	887.2	812.8	759.0
45°	1334.8	1489.9	1561.9	1515.6	1359.9	1183.1	1019.4	895.4	801.7	731.8	690.2
47.5°	1152.9	1322.3	1419.0	1402.7	1265.8	1090.7	928.9	809.9	718.7	662.9	625.7
50°	1024.1	1198.3	1315.0	1320.3	1198.3	1024.7	862.4	750.2	666.4	614.3	583.9
52.5°	912.1	1078.4	1205.7	1233.7	1122.7	956.1	802.7	691.1	617.3	569.5	542.3
55°	766.0	906.6	1047.8	1099.2	1010.2	851.9	710.0	611.7	542.3	509.4	485.6
57.5°	636.9	754.1	884.4	941.3	886.4	750.9	617.9	532.4	476.3	447.4	429.1
60°	568.8	661.2	777.3	845.2	797.7	677.0	560.9	479.7	433.5	407.8	390.6
62.5°	505.4	587.3	685.4	747.6	721.7	607.9	503.9	432.2	392.4	368.2	355.8
65°	417.0	481.6	557.6	614.9	597.8	511.3	426.3	364.9	333.2	314.1	304.2
67.5°	343.4	390.1	442.7	493.0	479.1	417.9	349.6	301.8	278.2	261.7	255.7
70°	297.0	332.5	379.4	419.7	408.5	358.3	304.2	263.3	242.8	228.9	223.0
72.5°	252.6	281.9	317.6	350.5	342.9	301.3	256.1	225.2	209.6	196.7	191.9
75°	190.7	213.1	234.9	256.7	254.7	222.4	196.0	172.2	159.7	149.8	147.8
77.5°	140.8	153.3	168.2	181.1	177.5	159.0	138.3	124.7	115.5	108.8	107.8
80°	107.5	114.8	125.4	134.6	130.0	122.1	105.6	95.7	89.1	82.5	79.8
82.5°	78.0	85.2	91.6	96.6	93.1	85.7	75.5	68.8	64.8	60.3	59.2
85°	40.9	44.9	47.5	48.8	47.5	42.9	38.2	35.6	32.4	30.4	29.7
87.5°	18.5	18.3	18.0	18.7	16.7	16.3	13.8	11.8	11.6	11.5	10.8
90°	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9	2.8	4.8	6.9
92.5°	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6	16.4	16.3	16.1
95°	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5	47.4	41.4	35.4
97.5°	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2	89.1	72.2	55.1
100°	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6	120.5	95.5	70.5
102.5°	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1	183.7	178.5	173.1
105°	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1	255.6	261.1	266.6
107.5°	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7	324.2	328.6	332.9
110°	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5	368.3	372.1	376.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6	410.0	413.4	416.8
115°	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0	476.1	479.3	482.4
117.5°	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4	536.0	539.4	542.9
120°	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9	578.7	581.3	584.1
122.5°	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8	615.6	618.5	621.4
125°	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8	671.2	673.6	676.0
127.5°	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7	722.4	725.0	727.6
130°	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0	754.9	757.9	760.7
132.5°	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9	787.4	789.9	792.3
135°	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7	830.6	833.5	836.5
137.5°	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9	873.0	875.0	877.1
140°	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2	900.7	902.2	903.6
142.5°	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9	924.2	925.6	926.9
145°	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1	959.9	959.8	959.6
147.5°	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6	991.8	991.1	990.4
150°	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6	1012.3	1011.0	1009.8
152.5°	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4	1029.9	1028.5	1027.1
155°	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2	1055.5	1053.9	1052.2
157.5°	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5	1076.1	1074.6	1073.2
160°	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1088.2	1087.1	1086.0
162.5°	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8	1098.7	1097.6	1096.5
165°	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0	1112.8	1111.7	1110.7
167.5°	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5	1123.3	1122.3	1121.2
170°	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4	1129.3	1128.3	1127.1
172.5°	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4	1133.2	1132.1	1131.1
175°	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4	1138.2	1136.9	1135.7
177.5°	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3	1139.3	1138.2	1137.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1694.2	1691.0	1679.9	1674.1	1664.7	1655.6	1649.8	1652.5	1654.6	1653.6	1651.9
5°	1645.6	1633.1	1613.9	1597.4	1585.5	1563.8	1554.5	1550.0	1546.0	1541.4	1536.7
7.5°	1587.8	1568.1	1540.6	1517.1	1494.9	1467.8	1452.4	1443.2	1433.7	1423.2	1414.0
10°	1546.6	1518.9	1489.9	1456.9	1430.6	1406.1	1384.3	1369.8	1356.6	1344.1	1334.8
12.5°	1503.4	1471.4	1435.5	1390.4	1361.3	1326.4	1323.1	1297.5	1276.9	1269.1	1258.3
15°	1434.4	1389.6	1344.1	1290.6	1267.6	1235.9	1216.1	1196.3	1178.5	1165.9	1162.6
17.5°	1356.2	1298.1	1252.8	1214.4	1176.6	1144.2	1125.9	1110.1	1095.5	1078.7	1076.4
20°	1296.6	1246.4	1197.0	1163.3	1124.4	1091.3	1068.9	1053.1	1040.5	1030.6	1022.1
22.5°	1240.1	1185.2	1139.9	1103.1	1064.7	1038.0	1020.4	1005.0	994.6	983.7	975.6
25°	1149.4	1106.6	1057.0	1015.5	983.8	966.6	952.1	938.9	932.4	925.1	915.8
27.5°	1070.1	1022.4	976.1	943.9	916.1	901.0	890.6	881.7	875.5	871.2	866.0
30°	1014.2	966.0	929.7	898.0	874.9	859.8	853.2	847.9	840.6	838.0	835.3
32.5°	960.3	916.9	885.9	858.4	836.4	826.5	820.4	815.7	810.0	807.4	802.1
35°	884.2	847.9	817.5	802.4	784.5	775.9	771.4	764.7	759.5	756.8	756.1
37.5°	812.5	781.0	761.0	741.5	734.0	728.8	722.4	717.9	716.4	715.9	715.2
40°	766.0	740.3	722.6	706.7	703.4	695.4	690.2	686.2	686.2	686.9	686.2
42.5°	723.8	700.8	685.0	671.3	667.4	662.7	657.5	657.2	658.2	660.5	658.2
45°	659.9	643.3	632.1	625.5	618.3	613.6	612.9	614.9	615.6	616.3	618.3
47.5°	601.0	590.0	579.9	572.6	569.5	568.6	567.8	571.3	574.5	575.7	578.7
50°	566.1	553.6	545.0	540.4	537.8	536.4	537.8	541.7	544.3	547.7	549.7
52.5°	527.1	518.2	512.3	508.8	507.6	508.5	508.8	513.2	517.5	518.7	519.5
55°	473.1	466.5	465.2	459.3	461.8	461.2	464.5	467.2	471.1	475.1	475.7
57.5°	419.2	414.0	410.4	411.0	411.7	414.7	417.4	422.1	426.3	430.5	430.8
60°	383.4	380.7	378.8	378.8	380.0	384.0	387.3	391.9	394.6	397.2	399.2
62.5°	350.6	348.0	346.0	347.1	350.5	352.8	356.7	359.2	361.9	364.5	365.4
65°	298.9	297.6	299.5	300.9	301.5	304.9	309.4	311.4	314.1	315.4	320.0
67.5°	251.2	251.5	251.2	253.1	256.9	257.7	262.1	266.7	267.3	269.8	272.8
70°	219.0	220.4	221.7	223.0	226.4	227.6	230.9	232.9	235.6	237.5	239.5
72.5°	189.5	189.8	191.1	190.8	193.6	196.5	199.2	201.2	203.9	206.4	208.4
75°	145.9	145.9	147.1	147.8	151.1	154.4	153.8	155.1	157.7	160.3	161.7
77.5°	106.5	105.0	106.5	107.2	108.2	111.0	111.5	113.4	116.4	115.5	116.9
80°	81.2	79.2	81.2	81.8	81.8	85.2	85.2	86.4	88.4	86.4	88.4
82.5°	57.9	57.0	58.5	58.6	59.7	59.8	60.9	61.1	63.1	62.2	63.1
85°	29.0	28.4	29.0	28.4	29.0	29.7	29.7	29.0	29.0	30.4	28.4
87.5°	10.8	10.6	10.3	10.6	10.4	10.2	9.8	10.0	10.2	9.3	9.5
90°	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3	19.2	20.1	20.8
92.5°	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1	20.5	21.0	21.4
95°	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9	34.9	35.7	36.1
97.5°	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4	45.1	45.9	46.3
100°	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9	51.3	52.8	53.6
102.5°	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0	53.9	55.8	57.0
105°	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2	56.2	58.2	59.6
107.5°	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1	64.1	62.1	61.4
110°	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4	89.1	70.9	62.1



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7	163.1	96.3	63.3
115°	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3	253.7	169.0	120.1
117.5°	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2	500.8	480.4	448.5
120°	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4	609.6	611.8	600.5
122.5°	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5	645.8	647.1	645.4
125°	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8	699.0	700.3	701.2
127.5°	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0	748.8	750.7	751.7
130°	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2	780.2	782.2	783.2
132.5°	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6	810.3	812.0	812.8
135°	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9	853.7	855.5	856.3
137.5°	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1	893.9	895.7	896.3
140°	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2	919.8	921.4	921.8
142.5°	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2	943.7	945.2	945.5
145°	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9	977.1	978.4	978.6
147.5°	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1	1006.1	1007.0	1007.1
150°	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2	1024.2	1025.4	1025.5
152.5°	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7	1040.7	1041.8	1041.8
155°	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9	1062.9	1064.0	1063.9
157.5°	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6	1081.8	1083.1	1083.0
160°	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5	1092.5	1093.6	1093.6
162.5°	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6	1102.9	1104.1	1104.0
165°	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6
167.5°	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4	1125.7	1127.0	1126.8
170°	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7	1130.9	1132.2	1132.0
172.5°	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6	1134.9	1136.2	1136.0
175°	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9	1139.2	1140.5	1140.2
177.5°	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4	1139.4	1140.4	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1646.7	1645.6	1645.6	1640.9	1645.6	1645.6	1646.7	1651.9	1653.6	1654.6	1652.5
5°	1527.5	1525.5	1522.2	1525.5	1522.2	1525.5	1527.5	1536.7	1541.4	1546.0	1550.0
7.5°	1409.6	1401.7	1400.6	1392.8	1400.6	1401.7	1409.6	1414.0	1423.2	1433.7	1443.2
10°	1323.6	1318.4	1317.7	1305.1	1317.7	1318.4	1323.6	1334.8	1344.1	1356.6	1369.8
12.5°	1258.2	1245.5	1248.0	1240.7	1248.0	1245.5	1258.2	1258.3	1269.1	1276.9	1297.5
15°	1144.8	1144.8	1142.2	1130.9	1142.2	1144.8	1144.8	1162.6	1165.9	1178.5	1196.3
17.5°	1063.4	1062.0	1055.8	1058.9	1055.8	1062.0	1063.4	1076.4	1078.7	1095.5	1110.1
20°	1014.8	1010.9	1003.0	1003.0	1003.0	1010.9	1014.8	1022.1	1030.6	1040.5	1053.1
22.5°	968.9	968.6	960.2	962.9	960.2	968.6	968.9	975.6	983.7	994.6	1005.0
25°	915.2	909.9	905.9	907.9	905.9	909.9	915.2	915.8	925.1	932.4	938.9
27.5°	864.3	861.3	861.1	855.7	861.1	861.3	864.3	866.0	871.2	875.5	881.7
30°	834.7	828.1	829.4	826.1	829.4	828.1	834.7	835.3	838.0	840.6	847.9
32.5°	800.9	798.5	797.2	794.4	797.2	798.5	800.9	802.1	807.4	810.0	815.7
35°	754.8	755.5	752.2	753.5	752.2	755.5	754.8	756.1	756.8	759.5	764.7
37.5°	714.6	716.7	715.1	715.5	715.1	716.7	714.6	715.2	715.9	716.4	717.9
40°	688.2	688.2	688.2	690.2	688.2	688.2	688.2	686.2	686.9	686.2	686.2
42.5°	662.9	661.9	660.7	660.6	660.7	661.9	662.9	658.2	660.5	658.2	657.2
45°	619.6	621.6	622.2	618.9	622.2	621.6	619.6	618.3	616.3	615.6	614.9
47.5°	580.4	580.7	580.4	583.3	580.4	580.7	580.4	578.7	575.7	574.5	571.3
50°	552.9	551.6	552.9	551.6	552.9	551.6	552.9	549.7	547.7	544.3	541.7
52.5°	523.9	524.2	523.4	523.1	523.4	524.2	523.9	519.5	518.7	517.5	513.2
55°	478.4	479.7	479.1	479.1	479.1	479.7	478.4	475.7	475.1	471.1	467.2
57.5°	431.3	432.5	433.3	430.5	433.3	432.5	431.3	430.8	430.5	426.3	422.1
60°	398.6	401.8	401.1	399.8	401.1	401.8	398.6	399.2	397.2	394.6	391.9
62.5°	368.4	369.6	369.5	369.3	369.5	369.6	368.4	365.4	364.5	361.9	359.2
65°	322.0	323.3	321.3	323.3	321.3	323.3	322.0	320.0	315.4	314.1	311.4
67.5°	272.0	272.4	273.8	274.7	273.8	272.4	272.0	272.8	269.8	267.3	266.7
70°	240.8	240.2	242.2	244.2	242.2	240.2	240.8	239.5	237.5	235.6	232.9
72.5°	208.1	209.6	208.9	210.3	208.9	209.6	208.1	208.4	206.4	203.9	201.2
75°	160.3	162.3	161.7	163.7	161.7	162.3	160.3	161.7	160.3	157.7	155.1
77.5°	115.9	116.1	115.9	116.9	115.9	116.1	115.9	116.9	115.5	116.4	113.4
80°	88.4	87.1	85.8	88.4	85.8	87.1	88.4	88.4	86.4	88.4	86.4
82.5°	61.5	62.3	61.0	61.0	61.0	62.3	61.5	63.1	62.2	63.1	61.1
85°	28.4	27.7	26.4	26.4	26.4	27.7	28.4	28.4	30.4	29.0	29.0
87.5°	9.5	9.0	9.1	8.7	9.1	9.0	9.5	9.5	9.3	10.2	10.0
90°	21.1	21.4	21.9	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3
92.5°	21.5	21.8	22.0	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1
95°	35.9	35.7	35.6	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9
97.5°	46.6	46.8	47.0	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4
100°	54.0	54.4	54.8	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9
102.5°	57.5	58.0	58.5	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0
105°	60.4	61.0	61.8	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2
107.5°	62.2	62.9	63.6	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1
110°	62.8	63.5	64.2	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	63.9	64.5	65.1	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7
115°	106.9	93.8	80.6	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3
117.5°	405.2	362.0	318.7	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2
120°	575.9	551.2	526.5	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4
122.5°	640.6	635.8	631.0	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5
125°	701.8	702.3	702.8	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8
127.5°	751.8	751.9	752.0	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0
130°	782.9	782.7	782.6	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2
132.5°	812.5	812.4	812.2	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6
135°	855.9	855.5	855.1	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9
137.5°	895.7	895.0	894.4	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1
140°	920.9	920.0	919.0	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2
142.5°	944.6	943.7	942.8	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2
145°	977.7	976.7	975.9	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9
147.5°	1006.3	1005.6	1004.8	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1
150°	1024.6	1023.6	1022.7	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2
152.5°	1040.6	1039.4	1038.2	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7
155°	1062.4	1060.9	1059.5	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9
157.5°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6
160°	1092.3	1091.0	1089.8	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5
162.5°	1102.3	1100.8	1099.2	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6
165°	1115.3	1114.0	1112.8	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0
167.5°	1125.2	1123.5	1121.9	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4
170°	1130.4	1128.8	1127.1	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7
172.5°	1134.4	1132.7	1131.1	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6
175°	1138.3	1136.5	1134.7	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9
177.5°	1138.9	1137.6	1136.3	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1649.8	1655.6	1664.7	1674.1	1679.9	1691.0	1694.2	1699.4	1704.2	1715.3	1726.9
5°	1554.5	1563.8	1585.5	1597.4	1613.9	1633.1	1645.6	1658.8	1673.4	1698.4	1721.5
7.5°	1452.4	1467.8	1494.9	1517.1	1540.6	1568.1	1587.8	1613.9	1635.6	1670.9	1704.7
10°	1384.3	1406.1	1430.6	1456.9	1489.9	1518.9	1546.6	1579.6	1606.0	1648.2	1687.8
12.5°	1323.1	1326.4	1361.3	1390.4	1435.5	1471.4	1503.4	1545.8	1571.7	1621.9	1663.5
15°	1216.1	1235.9	1267.6	1290.6	1344.1	1389.6	1434.4	1478.7	1508.4	1570.4	1625.1
17.5°	1125.9	1144.2	1176.6	1214.4	1252.8	1298.1	1356.2	1402.8	1443.2	1514.1	1578.8
20°	1068.9	1091.3	1124.4	1163.3	1197.0	1246.4	1296.6	1350.0	1393.5	1473.4	1549.3
22.5°	1020.4	1038.0	1064.7	1103.1	1139.9	1185.2	1240.1	1298.3	1343.9	1430.1	1507.0
25°	952.1	966.6	983.8	1015.5	1057.0	1106.6	1149.4	1213.4	1280.0	1360.6	1453.6
27.5°	890.6	901.0	916.1	943.9	976.1	1022.4	1070.1	1130.8	1197.8	1285.2	1383.4
30°	853.2	859.8	874.9	898.0	929.7	966.0	1014.2	1072.2	1140.8	1229.2	1326.9
32.5°	820.4	826.5	836.4	858.4	885.9	916.9	960.3	1018.4	1083.8	1170.7	1278.8
35°	771.4	775.9	784.5	802.4	817.5	847.9	884.2	936.9	998.3	1081.5	1193.6
37.5°	722.4	728.8	734.0	741.5	761.0	781.0	812.5	857.1	917.3	1001.3	1108.1
40°	690.2	695.4	703.4	706.7	722.6	740.3	766.0	806.9	867.7	944.2	1048.4
42.5°	657.5	662.7	667.4	671.3	685.0	700.8	723.8	759.0	812.8	887.2	990.4
45°	612.9	613.6	618.3	625.5	632.1	643.3	659.9	690.2	731.8	801.7	895.4
47.5°	567.8	568.6	569.5	572.6	579.9	590.0	601.0	625.7	662.9	718.7	809.9
50°	537.8	536.4	537.8	540.4	545.0	553.6	566.1	583.9	614.3	666.4	750.2
52.5°	508.8	508.5	507.6	508.8	512.3	518.2	527.1	542.3	569.5	617.3	691.1
55°	464.5	461.2	461.8	459.3	465.2	466.5	473.1	485.6	509.4	542.3	611.7
57.5°	417.4	414.7	411.7	411.0	410.4	414.0	419.2	429.1	447.4	476.3	532.4
60°	387.3	384.0	380.0	378.8	378.8	380.7	383.4	390.6	407.8	433.5	479.7
62.5°	356.7	352.8	350.5	347.1	346.0	348.0	350.6	355.8	368.2	392.4	432.2
65°	309.4	304.9	301.5	300.9	299.5	297.6	298.9	304.2	314.1	333.2	364.9
67.5°	262.1	257.7	256.9	253.1	251.2	251.5	251.2	255.7	261.7	278.2	301.8
70°	230.9	227.6	226.4	223.0	221.7	220.4	219.0	223.0	228.9	242.8	263.3
72.5°	199.2	196.5	193.6	190.8	191.1	189.8	189.5	191.9	196.7	209.6	225.2
75°	153.8	154.4	151.1	147.8	147.1	145.9	145.9	147.8	149.8	159.7	172.2
77.5°	111.5	111.0	108.2	107.2	106.5	105.0	106.5	107.8	108.8	115.5	124.7
80°	85.2	85.2	81.8	81.8	81.2	79.2	81.2	79.8	82.5	89.1	95.7
82.5°	60.9	59.8	59.7	58.6	58.5	57.0	57.9	59.2	60.3	64.8	68.8
85°	29.7	29.7	29.0	28.4	29.0	28.4	29.0	29.7	30.4	32.4	35.6
87.5°	9.8	10.2	10.4	10.6	10.3	10.6	10.8	10.8	11.5	11.6	11.8
90°	17.4	16.4	15.0	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9
92.5°	19.5	19.1	18.3	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6
95°	33.0	32.1	30.8	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5
97.5°	43.7	43.0	40.0	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2
100°	48.4	46.9	43.8	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6
102.5°	50.1	48.2	74.2	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1
105°	52.2	50.2	100.1	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1
107.5°	68.2	70.3	130.1	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7
110°	125.7	144.0	196.8	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	296.4	363.2	376.2	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6
115°	422.9	507.6	503.1	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0
117.5°	541.7	562.2	559.1	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4
120°	605.3	603.0	599.8	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9
122.5°	643.2	641.9	638.3	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8
125°	696.5	695.2	691.7	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8
127.5°	745.1	743.2	740.6	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7
130°	776.2	774.2	772.1	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0
132.5°	806.8	805.1	803.1	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9
135°	850.1	848.3	846.5	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7
137.5°	890.4	888.6	886.7	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9
140°	916.5	914.9	912.8	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2
142.5°	940.7	939.2	936.9	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9
145°	974.6	973.3	970.2	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1
147.5°	1004.2	1003.2	1000.1	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6
150°	1022.1	1021.0	1018.0	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6
152.5°	1038.5	1037.4	1034.7	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4
155°	1060.8	1059.6	1057.5	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2
157.5°	1079.3	1078.1	1076.5	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5
160°	1090.4	1089.3	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3
162.5°	1100.4	1099.2	1098.2	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8
165°	1112.8	1111.5	1110.9	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0
167.5°	1123.1	1121.9	1121.4	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5
170°	1128.4	1127.1	1126.8	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4
172.5°	1132.4	1131.1	1130.7	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4
175°	1136.6	1135.3	1135.0	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4
177.5°	1137.4	1136.3	1136.2	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1725.9	1728.5	1736.9	1745.4	1754.9	1757.6	1761.8	1758.1	1757.0	1767.0	1774.4
5°	1730.7	1742.6	1765.7	1786.8	1804.7	1817.1	1830.4	1835.7	1845.6	1859.4	1876.5
7.5°	1725.2	1748.3	1784.6	1815.3	1848.8	1873.0	1891.9	1908.0	1927.5	1953.8	1982.4
10°	1718.8	1749.9	1794.1	1831.7	1872.6	1903.6	1929.3	1954.4	1983.5	2019.7	2057.4
12.5°	1707.3	1744.0	1799.3	1843.8	1896.4	1926.8	1961.5	2015.7	2046.8	2097.3	2150.3
15°	1683.9	1724.8	1802.0	1856.7	1916.2	1974.2	2038.2	2089.6	2141.1	2170.8	2245.4
17.5°	1649.2	1709.3	1794.8	1858.6	1934.1	2025.5	2097.5	2155.8	2215.2	2263.3	2300.7
20°	1621.2	1686.5	1784.2	1860.7	1950.4	2048.7	2131.2	2190.6	2242.1	2282.3	2305.4
22.5°	1585.8	1668.0	1763.1	1852.8	1967.4	2064.6	2151.3	2198.0	2241.0	2260.7	2269.5
25°	1530.2	1629.1	1736.6	1846.2	1975.6	2078.5	2157.7	2186.0	2198.6	2179.4	2147.8
27.5°	1470.1	1580.5	1706.2	1833.8	1970.5	2069.5	2126.2	2121.8	2100.5	2038.6	1989.1
30°	1425.2	1546.6	1681.9	1821.1	1958.3	2054.7	2087.7	2054.7	2006.6	1937.2	1866.6
32.5°	1378.3	1503.9	1656.0	1803.2	1936.2	2020.9	2028.1	1971.3	1896.8	1818.0	1729.9
35°	1307.1	1443.0	1607.3	1763.1	1889.1	1942.5	1910.9	1810.6	1722.2	1614.6	1494.5
37.5°	1226.8	1376.8	1541.6	1704.3	1818.5	1832.5	1753.9	1648.2	1523.5	1397.1	1255.8
40°	1166.6	1325.6	1495.2	1659.5	1760.4	1745.9	1645.6	1529.5	1381.0	1226.6	1095.3
42.5°	1112.8	1271.8	1444.5	1605.6	1686.5	1646.7	1529.5	1387.0	1227.4	1082.0	961.7
45°	1019.4	1183.1	1359.9	1515.6	1561.9	1489.9	1334.8	1176.5	1019.4	898.0	803.1
47.5°	928.9	1090.7	1265.8	1402.7	1419.0	1322.3	1152.9	989.9	854.9	756.0	689.0
50°	862.4	1024.7	1198.3	1320.3	1315.0	1198.3	1024.1	869.0	756.1	676.3	631.5
52.5°	802.7	956.1	1122.7	1233.7	1205.7	1078.4	912.1	774.5	681.7	619.3	578.7
55°	710.0	851.9	1010.2	1099.2	1047.8	906.6	766.0	655.2	586.6	539.8	508.1
57.5°	617.9	750.9	886.4	941.3	884.4	754.1	636.9	556.5	504.9	470.2	449.6
60°	560.9	677.0	797.7	845.2	777.3	661.2	568.8	496.9	455.3	426.9	408.5
62.5°	503.9	607.9	721.7	747.6	685.4	587.3	505.4	445.7	411.5	386.2	368.9
65°	426.3	511.3	597.8	614.9	557.6	481.6	417.0	378.1	347.8	329.2	315.4
67.5°	349.6	417.9	479.1	493.0	442.7	390.1	343.4	309.4	288.9	273.5	261.8
70°	304.2	358.3	408.5	419.7	379.4	332.5	297.0	269.8	251.4	238.2	227.0
72.5°	256.1	301.3	342.9	350.5	317.6	281.9	252.6	231.4	215.0	206.6	195.9
75°	196.0	222.4	254.7	256.7	234.9	213.1	190.7	176.8	168.2	157.7	152.4
77.5°	138.3	159.0	177.5	181.1	168.2	153.3	140.8	129.8	122.6	117.7	112.8
80°	105.6	122.1	130.0	134.6	125.4	114.8	107.5	100.3	95.7	92.4	89.1
82.5°	75.5	85.7	93.1	96.6	91.6	85.2	78.0	73.9	70.3	67.6	66.4
85°	38.2	42.9	47.5	48.8	47.5	44.9	40.9	40.9	38.9	38.2	38.2
87.5°	13.8	16.3	16.7	18.7	18.0	18.3	18.5	18.3	18.1	17.7	17.4
90°	2.8	4.8	6.9	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3
92.5°	16.4	16.3	16.1	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1
95°	47.4	41.4	35.4	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9
97.5°	89.1	72.2	55.1	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4
100°	120.5	95.5	70.5	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9
102.5°	183.7	178.5	173.1	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0
105°	255.6	261.1	266.6	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2
107.5°	324.2	328.6	332.9	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1
110°	368.3	372.1	376.0	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	410.0	413.4	416.8	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7
115°	476.1	479.3	482.4	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3
117.5°	536.0	539.4	542.9	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2
120°	578.7	581.3	584.1	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4
122.5°	615.6	618.5	621.4	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5
125°	671.2	673.6	676.0	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8
127.5°	722.4	725.0	727.6	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0
130°	754.9	757.9	760.7	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2
132.5°	787.4	789.9	792.3	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6
135°	830.6	833.5	836.5	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9
137.5°	873.0	875.0	877.1	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1
140°	900.7	902.2	903.6	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2
142.5°	924.2	925.6	926.9	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2
145°	959.9	959.8	959.6	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9
147.5°	991.8	991.1	990.4	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1
150°	1012.3	1011.0	1009.8	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2
152.5°	1029.9	1028.5	1027.1	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7
155°	1055.5	1053.9	1052.2	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9
157.5°	1076.1	1074.6	1073.2	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6
160°	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5
162.5°	1098.7	1097.6	1096.5	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6
165°	1112.8	1111.7	1110.7	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0
167.5°	1123.3	1122.3	1121.2	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4
170°	1129.3	1128.3	1127.1	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7
172.5°	1133.2	1132.1	1131.1	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6
175°	1138.2	1136.9	1135.7	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9
177.5°	1139.3	1138.2	1137.2	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1780.7	1788.1	1788.1	1789.2	1797.6	1796.6	1796.0
5°	1895.1	1906.3	1907.5	1919.4	1927.3	1924.7	1917.4
7.5°	2002.9	2023.7	2039.5	2048.4	2058.8	2065.3	2062.4
10°	2088.4	2118.7	2137.2	2149.7	2164.9	2176.1	2172.1
12.5°	2165.9	2202.1	2227.5	2248.9	2250.9	2265.3	2255.6
15°	2287.0	2325.2	2329.2	2345.0	2357.6	2356.2	2356.9
17.5°	2326.9	2339.3	2341.7	2342.1	2342.3	2337.6	2327.6
20°	2312.7	2308.1	2296.9	2288.3	2273.1	2271.1	2258.0
22.5°	2245.1	2230.5	2202.4	2183.8	2160.2	2154.0	2150.3
25°	2112.1	2079.7	2034.9	1992.0	1980.1	1957.1	1963.7
27.5°	1929.6	1879.2	1830.7	1795.8	1764.3	1729.7	1739.6
30°	1801.3	1744.6	1675.9	1623.2	1589.5	1556.5	1550.6
32.5°	1648.2	1565.1	1488.6	1442.1	1390.5	1369.7	1346.9
35°	1384.3	1303.1	1227.3	1161.9	1124.4	1095.3	1068.9
37.5°	1146.9	1053.5	992.2	939.4	912.1	895.5	899.7
40°	999.6	917.8	873.0	832.7	807.6	795.7	798.4
42.5°	880.4	819.1	782.1	754.6	736.9	730.3	728.8
45°	744.9	710.7	680.3	664.4	655.9	648.6	644.0
47.5°	652.6	624.6	607.4	598.1	590.6	583.2	583.0
50°	597.1	578.7	566.8	556.9	551.0	545.7	550.3
52.5°	554.9	538.0	526.2	517.3	515.1	510.3	510.1
55°	492.2	479.1	470.5	462.5	458.6	455.9	452.6
57.5°	435.2	422.7	414.7	409.7	402.3	399.6	398.6
60°	394.6	384.7	376.8	370.1	366.9	361.6	361.6
62.5°	357.1	347.2	339.8	334.8	329.4	327.3	327.8
65°	302.9	295.0	287.7	282.4	281.1	277.2	278.4
67.5°	253.0	247.7	240.0	237.1	234.6	232.6	230.9
70°	219.7	214.5	210.5	206.6	204.6	204.6	204.6
72.5°	191.7	185.4	183.0	178.1	179.2	177.1	175.0
75°	148.4	144.5	142.5	140.5	137.2	137.2	137.2
77.5°	109.3	108.1	105.7	103.6	102.8	102.1	102.4
80°	84.5	83.8	82.5	82.5	81.2	80.5	79.2
82.5°	64.9	63.2	62.4	61.9	61.6	61.5	61.2
85°	36.9	35.6	35.6	36.2	35.0	35.0	35.6
87.5°	18.1	18.3	17.9	17.9	18.5	18.1	18.2
90°	19.2	20.1	20.8	21.1	21.4	21.9	22.2
92.5°	20.5	21.0	21.4	21.5	21.8	22.0	22.2
95°	34.9	35.7	36.1	35.9	35.7	35.6	35.4
97.5°	45.1	45.9	46.3	46.6	46.8	47.0	47.2
100°	51.3	52.8	53.6	54.0	54.4	54.8	55.1
102.5°	53.9	55.8	57.0	57.5	58.0	58.5	59.1
105°	56.2	58.2	59.6	60.4	61.0	61.8	62.5
107.5°	64.1	62.1	61.4	62.2	62.9	63.6	64.3
110°	89.1	70.9	62.1	62.8	63.5	64.2	65.0



TEST NUMBER: P331597-935

CATALOG NUMBER: S122DIW-S1005D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	163.1	96.3	63.3	63.9	64.5	65.1	65.7
115°	253.7	169.0	120.1	106.9	93.8	80.6	67.5
117.5°	500.8	480.4	448.5	405.2	362.0	318.7	275.4
120°	609.6	611.8	600.5	575.9	551.2	526.5	501.9
122.5°	645.8	647.1	645.4	640.6	635.8	631.0	626.3
125°	699.0	700.3	701.2	701.8	702.3	702.8	703.4
127.5°	748.8	750.7	751.7	751.8	751.9	752.0	752.1
130°	780.2	782.2	783.2	782.9	782.7	782.6	782.4
132.5°	810.3	812.0	812.8	812.5	812.4	812.2	812.0
135°	853.7	855.5	856.3	855.9	855.5	855.1	854.8
137.5°	893.9	895.7	896.3	895.7	895.0	894.4	893.8
140°	919.8	921.4	921.8	920.9	920.0	919.0	918.2
142.5°	943.7	945.2	945.5	944.6	943.7	942.8	941.8
145°	977.1	978.4	978.6	977.7	976.7	975.9	974.9
147.5°	1006.1	1007.0	1007.1	1006.3	1005.6	1004.8	1004.0
150°	1024.2	1025.4	1025.5	1024.6	1023.6	1022.7	1021.8
152.5°	1040.7	1041.8	1041.8	1040.6	1039.4	1038.2	1037.0
155°	1062.9	1064.0	1063.9	1062.4	1060.9	1059.5	1058.0
157.5°	1081.8	1083.1	1083.0	1081.5	1080.1	1078.7	1077.3
160°	1092.5	1093.6	1093.6	1092.3	1091.0	1089.8	1088.5
162.5°	1102.9	1104.1	1104.0	1102.3	1100.8	1099.2	1097.7
165°	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5
167.5°	1125.7	1127.0	1126.8	1125.2	1123.5	1121.9	1120.2
170°	1130.9	1132.2	1132.0	1130.4	1128.8	1127.1	1125.5
172.5°	1134.9	1136.2	1136.0	1134.4	1132.7	1131.1	1129.5
175°	1139.2	1140.5	1140.2	1138.3	1136.5	1134.7	1132.9
177.5°	1139.4	1140.4	1140.3	1138.9	1137.6	1136.3	1135.1
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0

(END OF REPORT)