

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: P331841-940

Luminaire Tested: **S122RDIW-S865D1440U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331841-940
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: S122RDIW-S865D1440U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8083.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

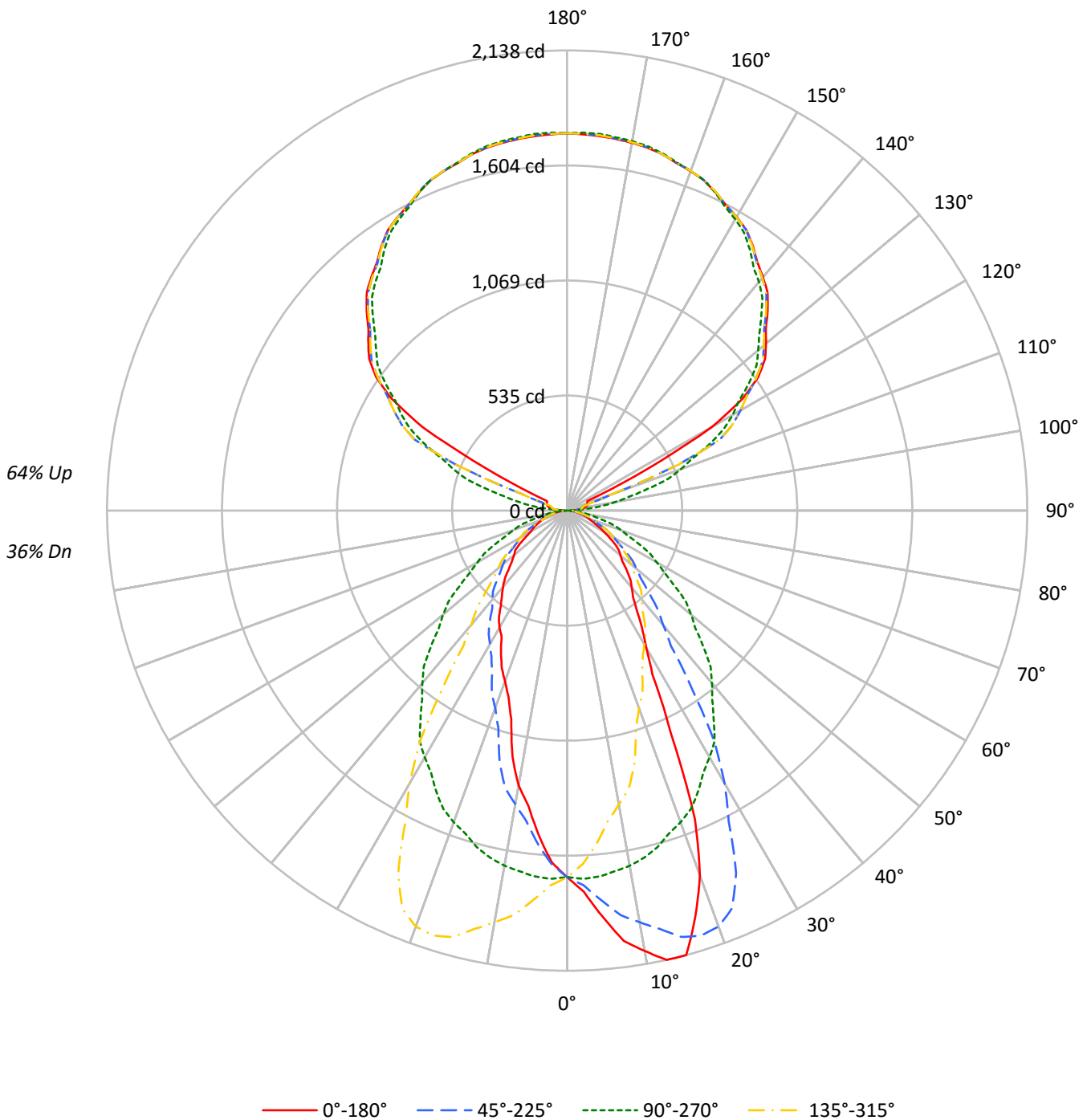
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	88	84	86	83	80	77	67	65	63	53	51	50	39	39	38	32
2	87	80	75	70	79	73	68	64	60	56	53	47	45	43	35	34	33	28
3	80	71	64	59	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	56	50	66	58	52	47	48	43	39	38	35	32	29	27	25	21
5	68	57	49	43	61	52	45	40	43	38	34	34	31	28	26	24	22	19
6	62	51	43	38	57	47	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	39	33	52	42	36	31	35	30	27	29	25	22	22	20	18	15
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	21	18	16	14
9	50	39	31	27	46	36	29	25	30	25	22	24	21	18	19	17	15	13
10	47	35	29	24	43	33	27	23	27	23	20	23	19	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27493	27493	27493	27493
5°	30705	27665	24530	27665
10°	34067	27471	21263	27471
15°	35741	27067	16754	27067
20°	30986	26472	14496	26472
25°	20322	25655	12944	25655
30°	13679	24664	11714	24664
35°	11077	23416	10565	23416
40°	9851	22059	9778	22059
45°	8917	20466	8727	20466
50°	8116	18889	8083	18889
55°	7628	17140	7527	17140
60°	6381	15532	6307	15532
65°	5379	14105	6101	14105
70°	4971	12595	5755	12595
75°	4648	10967	5315	10967
80°	4296	9019	4733	9019
85°	3946	7114	4168	7114



TEST NUMBER: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.0
10°-20°	449.8	5.6
20°-30°	579.6	7.2
30°-40°	550.8	6.8
40°-50°	471.8	5.8
50°-60°	359.3	4.4
60°-70°	227.1	2.8
70°-80°	113.4	1.4
80°-90°	33.8	0.4
90°-100°	58.5	0.7
100°-110°	214.4	2.7
110°-120°	573.1	7.1
120°-130°	946.0	11.7
130°-140°	1006.1	12.4
140°-150°	935.1	11.6
150°-160°	751.8	9.3
160°-170°	484.5	6.0
170°-180°	166.8	2.1
0°-30°	1190.8	14.7
0°-40°	1741.6	21.5
0°-60°	2572.7	31.8
0°-90°	2947.1	36.5
90°-120°	846.0	10.5
90°-150°	3733.2	46.2
90°-180°	5136.0	63.5
0°-180°	8083.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1894	1707	1514	1707	1894	187
15°	2138	1619	1002	1619	2138	577
25°	1141	1440	727	1440	1141	541
35°	562	1188	536	1188	562	360
45°	390	896	382	896	390	302
55°	271	609	267	609	271	238
65°	141	369	160	369	141	143
75°	74	176	85	176	74	79
85°	21	38	22	38	21	24
90°	34	1	34	1	34	16
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1771.9	1773.3	1774.8	1771.4	1771.4	1768.6	1762.5	1757.7	1744.5	1742.6	1742.6
5°	1894.5	1893.3	1895.7	1888.0	1877.3	1875.0	1863.8	1849.0	1833.5	1816.4	1812.8
7.5°	2016.3	2014.6	2009.8	2008.6	2000.4	1982.5	1964.4	1945.2	1919.6	1894.6	1882.0
10°	2077.9	2097.4	2085.6	2064.8	2069.0	2041.2	2026.4	2001.0	1979.7	1942.4	1934.1
12.5°	2138.5	2146.2	2142.4	2130.7	2125.4	2106.0	2086.1	2064.0	2024.6	1991.2	1962.0
15°	2138.2	2149.5	2152.4	2148.9	2151.9	2150.7	2140.0	2121.6	2087.4	2050.7	2018.7
17.5°	1980.4	1988.2	2007.6	2020.7	2037.3	2072.3	2089.6	2096.3	2091.2	2070.3	2047.8
20°	1803.4	1790.4	1844.8	1872.6	1896.2	1955.4	2006.3	2025.9	2057.2	2056.6	2050.7
22.5°	1552.5	1555.6	1607.2	1640.2	1709.3	1768.4	1826.5	1900.0	1960.6	2000.7	2024.2
25°	1140.7	1163.2	1214.7	1259.6	1336.6	1446.6	1546.6	1662.6	1772.0	1858.4	1940.6
27.5°	856.8	858.4	899.2	940.8	986.4	1076.6	1202.5	1341.0	1497.0	1625.8	1773.9
30°	733.7	730.1	747.3	772.7	811.7	881.5	976.2	1112.3	1267.9	1462.0	1634.8
32.5°	646.6	646.8	659.7	678.5	711.0	758.0	822.9	933.4	1080.5	1271.2	1473.8
35°	562.0	561.5	571.0	584.5	598.2	628.3	672.7	730.7	831.9	1010.0	1217.0
37.5°	501.5	504.1	508.7	517.2	532.3	549.0	575.7	614.7	686.7	792.0	966.1
40°	467.4	468.6	475.1	482.2	491.1	504.1	526.0	557.3	610.0	694.0	821.2
42.5°	436.1	437.4	441.9	448.6	455.6	468.6	486.7	513.8	556.5	622.1	727.0
45°	390.5	390.5	394.7	397.6	405.3	417.1	431.9	454.4	483.9	532.5	602.4
47.5°	347.7	347.8	350.5	355.6	360.4	369.7	384.2	402.6	424.1	461.6	521.3
50°	323.1	323.6	325.4	329.6	332.5	340.8	352.0	368.0	390.5	419.5	469.2
52.5°	303.2	302.8	305.1	306.8	308.9	314.8	323.2	337.2	357.4	382.5	423.7
55°	271.0	268.6	272.2	275.1	276.9	279.3	284.0	292.8	310.0	331.4	362.1
57.5°	230.8	229.8	232.3	235.0	240.6	246.9	251.0	256.6	265.6	280.8	311.3
60°	197.6	197.6	203.0	204.7	211.2	219.5	227.8	232.6	241.4	251.5	273.9
62.5°	168.3	168.7	171.2	173.0	176.6	186.8	198.4	208.8	217.2	226.9	241.7
65°	140.8	142.0	142.0	143.2	145.5	147.9	152.7	161.0	175.8	189.3	200.5
67.5°	119.5	119.8	120.2	121.5	122.0	124.6	126.5	130.2	133.6	146.5	160.4
70°	105.3	107.1	106.5	107.7	108.3	109.4	111.8	113.6	119.0	121.9	130.2
72.5°	92.0	93.4	93.3	94.0	95.5	95.8	97.6	99.4	102.8	105.3	109.8
75°	74.5	73.9	74.5	75.7	76.3	77.0	77.0	79.3	81.1	83.5	86.4
77.5°	57.5	58.1	58.0	58.1	58.2	59.3	59.2	60.2	62.0	63.2	64.6
80°	46.2	46.7	46.2	46.7	47.3	47.9	47.3	47.9	49.7	50.9	50.9
82.5°	35.8	35.8	36.2	36.3	36.5	36.6	37.4	37.5	38.8	38.6	39.1
85°	21.3	20.7	20.7	20.7	21.3	21.8	21.3	21.3	21.8	21.8	21.8
87.5°	14.4	14.8	14.7	14.5	14.4	14.3	14.0	14.2	13.4	13.6	12.7
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1743.5	1739.7	1736.4	1727.9	1723.6	1714.1	1712.7	1712.3	1700.0	1688.1	1684.8
5°	1803.4	1793.9	1779.7	1763.2	1746.0	1728.2	1716.4	1706.9	1683.3	1660.8	1647.8
7.5°	1863.8	1843.3	1818.9	1787.5	1761.4	1732.1	1710.2	1690.7	1657.2	1625.0	1603.3
10°	1908.7	1875.5	1843.0	1799.8	1766.1	1733.0	1702.2	1675.6	1637.7	1595.1	1565.0
12.5°	1936.6	1900.1	1855.3	1813.1	1769.4	1727.2	1686.1	1651.9	1607.4	1563.4	1527.5
15°	1974.3	1935.3	1880.9	1820.5	1764.3	1709.3	1662.0	1619.3	1561.4	1508.7	1464.9
17.5°	2005.3	1951.5	1893.1	1823.3	1758.2	1688.3	1627.3	1572.9	1508.3	1444.8	1393.2
20°	2015.2	1961.9	1894.5	1824.7	1747.8	1665.5	1599.8	1540.7	1471.4	1402.2	1343.1
22.5°	2009.0	1967.6	1892.6	1809.0	1730.3	1644.2	1570.0	1501.4	1424.6	1354.0	1285.3
25°	1967.3	1953.0	1882.0	1790.9	1701.0	1601.1	1515.2	1440.1	1352.5	1276.8	1202.2
27.5°	1869.9	1900.5	1856.5	1759.4	1659.5	1552.3	1455.8	1370.3	1279.4	1194.2	1119.9
30°	1776.2	1846.6	1827.7	1737.7	1625.9	1520.5	1412.3	1322.9	1225.9	1138.4	1065.0
32.5°	1647.9	1764.2	1782.7	1707.4	1591.8	1476.0	1362.6	1273.7	1172.4	1080.1	1008.6
35°	1443.7	1617.6	1697.5	1649.6	1533.6	1408.7	1291.6	1188.0	1086.3	995.1	924.2
37.5°	1200.0	1436.9	1570.0	1573.4	1467.0	1337.1	1209.6	1106.8	1002.6	913.2	836.3
40°	1041.9	1298.7	1472.0	1510.5	1420.6	1280.3	1151.4	1046.6	944.9	857.3	769.2
42.5°	899.9	1155.7	1368.9	1435.7	1364.2	1224.9	1095.6	986.1	887.2	804.3	714.3
45°	727.7	951.4	1186.2	1305.8	1266.1	1137.2	1000.5	896.3	803.4	731.9	645.5
47.5°	613.9	771.5	998.8	1160.5	1159.8	1042.1	907.6	807.9	721.7	654.6	584.7
50°	549.0	686.3	878.6	1062.0	1077.4	978.6	850.8	752.0	671.5	601.1	544.9
52.5°	490.8	604.0	776.9	952.7	996.5	910.9	786.9	695.7	617.6	552.9	504.7
55°	414.7	502.3	633.6	798.2	864.4	804.1	694.0	608.9	545.5	491.1	449.7
57.5°	350.9	416.5	521.9	654.3	731.6	693.6	602.8	533.6	479.4	430.2	397.4
60°	310.6	364.4	453.8	564.5	649.6	623.0	545.5	481.0	434.9	392.3	361.5
62.5°	272.8	319.1	395.6	485.4	563.5	552.5	489.2	435.1	394.7	355.8	329.8
65°	219.5	253.2	313.0	383.4	446.1	451.5	405.9	369.2	333.1	302.4	279.3
67.5°	174.8	196.8	238.9	298.2	345.2	361.9	334.1	306.1	277.5	253.7	233.7
70°	147.3	165.1	195.8	243.8	287.0	304.7	288.7	266.8	242.0	222.5	205.3
72.5°	119.4	136.7	159.3	194.6	231.6	250.7	245.2	229.4	209.3	193.1	176.9
75°	90.0	95.2	110.7	134.3	163.3	179.9	184.0	175.8	159.7	147.3	137.9
77.5°	66.5	69.7	77.0	89.4	108.4	123.1	129.2	128.2	117.3	110.0	101.2
80°	53.2	55.0	58.6	63.9	78.1	92.9	97.0	97.0	89.3	86.4	77.5
82.5°	40.5	41.7	43.9	46.8	53.5	66.3	71.0	72.0	67.1	63.2	56.2
85°	23.1	22.5	23.6	25.4	26.7	30.1	37.3	38.4	37.3	32.5	30.8
87.5°	12.2	12.2	11.8	10.8	10.6	10.5	12.2	14.0	12.7	11.9	11.6
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1678.6	1675.3	1669.2	1659.7	1654.0	1644.1	1637.4	1641.3	1642.2	1641.3	1640.3
5°	1633.5	1621.1	1604.0	1587.4	1572.0	1555.5	1546.0	1541.9	1533.6	1528.8	1526.5
7.5°	1579.0	1557.6	1533.3	1504.5	1480.0	1454.3	1441.2	1434.7	1417.7	1408.5	1400.4
10°	1538.3	1504.6	1480.3	1442.4	1419.4	1385.6	1362.6	1363.2	1340.1	1327.0	1317.6
12.5°	1493.3	1456.3	1415.9	1381.9	1349.8	1322.7	1294.9	1283.6	1259.2	1246.6	1221.0
15°	1418.8	1375.6	1333.0	1286.8	1254.3	1212.3	1172.1	1122.9	1083.3	1049.0	1039.6
17.5°	1337.4	1283.9	1241.2	1187.0	1131.2	1060.6	1014.0	985.4	961.5	943.4	930.0
20°	1281.6	1227.1	1181.5	1099.9	1024.8	976.9	942.5	920.6	895.8	876.3	865.6
22.5°	1222.8	1166.0	1103.9	1012.8	954.2	915.8	885.2	860.1	843.2	828.0	818.2
25°	1139.5	1077.4	975.1	912.3	865.0	824.7	803.4	788.1	770.3	749.7	740.1
27.5°	1051.5	952.7	879.2	832.6	787.4	761.3	742.1	719.1	703.2	693.9	684.0
30°	985.7	886.9	829.5	778.6	746.6	717.6	695.2	682.2	666.8	650.9	644.4
32.5°	912.3	833.4	778.4	736.0	703.6	678.9	661.1	640.1	628.9	619.1	605.5
35°	821.2	761.4	711.1	676.9	646.1	626.0	605.3	592.8	572.7	564.5	559.1
37.5°	744.0	692.2	654.7	618.5	594.1	571.9	559.2	539.5	530.7	519.2	508.0
40°	700.5	649.6	613.6	584.0	556.8	540.2	524.2	508.3	495.3	489.9	476.3
42.5°	656.0	614.7	578.5	546.1	527.9	510.3	490.2	478.4	464.9	456.3	447.9
45°	594.6	557.9	527.2	500.5	480.5	462.1	449.1	429.5	421.9	404.7	397.6
47.5°	540.6	506.6	477.2	451.9	432.3	420.4	401.3	386.0	373.7	363.2	354.0
50°	502.3	473.9	445.5	423.0	405.3	388.2	368.6	360.9	342.0	336.6	331.4
52.5°	467.3	440.3	414.3	392.3	374.5	357.8	340.6	330.6	317.8	312.5	308.6
55°	418.3	392.3	367.4	347.9	330.1	313.0	302.4	289.9	284.0	279.8	275.1
57.5°	369.1	345.6	326.6	306.8	289.0	275.4	263.1	255.6	249.4	244.0	238.4
60°	337.9	315.3	298.2	279.8	261.5	250.3	240.8	231.9	224.8	216.5	214.2
62.5°	304.7	285.1	269.3	251.5	235.5	225.2	216.2	207.8	199.3	187.2	183.9
65°	259.1	243.8	227.2	212.4	198.2	188.2	175.1	165.7	162.1	161.0	160.3
67.5°	217.9	203.4	189.2	174.1	161.1	151.9	145.2	143.7	141.2	140.5	138.9
70°	190.5	176.9	162.7	148.5	136.1	134.3	132.0	129.6	126.6	125.5	124.2
72.5°	165.9	151.9	137.6	126.3	120.9	118.7	116.3	114.0	111.9	110.8	110.0
75°	127.2	114.2	104.7	100.6	97.6	95.9	92.3	90.5	89.3	87.6	86.9
77.5°	91.6	84.3	79.9	77.3	74.2	72.3	70.3	68.5	67.2	66.9	65.9
80°	69.8	66.3	63.3	59.7	58.6	56.2	55.6	53.9	54.4	52.7	52.7
82.5°	54.2	49.7	47.2	45.6	44.4	42.4	41.9	41.0	41.2	39.9	39.9
85°	27.8	26.7	25.4	24.3	24.3	22.5	23.1	22.5	22.5	21.3	20.7
87.5°	11.8	11.8	11.3	11.8	12.2	12.2	12.5	12.3	12.6	12.8	12.6
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1635.1	1636.0	1634.6	1635.6	1634.6	1636.0	1635.1	1640.3	1641.3	1642.2	1641.3
5°	1523.5	1516.4	1515.2	1513.5	1515.2	1516.4	1523.5	1526.5	1528.8	1533.6	1541.9
7.5°	1390.3	1389.2	1386.3	1382.2	1386.3	1389.2	1390.3	1400.4	1408.5	1417.7	1434.7
10°	1304.6	1301.6	1301.1	1296.9	1301.1	1301.6	1304.6	1317.6	1327.0	1340.1	1363.2
12.5°	1204.3	1185.2	1183.2	1172.9	1183.2	1185.2	1204.3	1221.0	1246.6	1259.2	1283.6
15°	1025.4	1021.8	1010.0	1002.3	1010.0	1021.8	1025.4	1039.6	1049.0	1083.3	1122.9
17.5°	923.1	911.5	907.9	906.2	907.9	911.5	923.1	930.0	943.4	961.5	985.4
20°	857.3	846.7	844.9	843.7	844.9	846.7	857.3	865.6	876.3	895.8	920.6
22.5°	811.9	800.8	796.1	792.6	796.1	800.8	811.9	818.2	828.0	843.2	860.1
25°	734.2	730.1	727.7	726.6	727.7	730.1	734.2	740.1	749.7	770.3	788.1
27.5°	673.5	664.4	662.6	659.6	662.6	664.4	673.5	684.0	693.9	703.2	719.1
30°	639.0	636.1	631.9	628.3	631.9	636.1	639.0	644.4	650.9	666.8	682.2
32.5°	598.2	595.8	592.1	590.5	592.1	595.8	598.2	605.5	619.1	628.9	640.1
35°	553.2	544.9	541.4	536.0	541.4	544.9	553.2	559.1	564.5	572.7	592.8
37.5°	505.5	501.1	496.1	497.9	496.1	501.1	505.5	508.0	519.2	530.7	539.5
40°	468.6	465.7	464.5	463.9	464.5	465.7	468.6	476.3	489.9	495.3	508.3
42.5°	439.3	431.1	428.0	427.8	428.0	431.1	439.3	447.9	456.3	464.9	478.4
45°	394.7	386.9	381.7	382.2	381.7	386.9	394.7	397.6	404.7	421.9	429.5
47.5°	348.9	348.7	345.4	346.5	345.4	348.7	348.9	354.0	363.2	373.7	386.0
50°	327.2	323.6	321.3	321.8	321.3	323.6	327.2	331.4	336.6	342.0	360.9
52.5°	306.4	303.3	301.4	303.9	301.4	303.3	306.4	308.6	312.5	317.8	330.6
55°	272.2	268.6	268.0	267.4	268.0	268.6	272.2	275.1	279.8	284.0	289.9
57.5°	234.0	231.6	228.0	226.5	228.0	231.6	234.0	238.4	244.0	249.4	255.6
60°	206.5	201.8	195.8	195.3	195.8	201.8	206.5	214.2	216.5	224.8	231.9
62.5°	181.4	180.5	179.2	179.1	179.2	180.5	181.4	183.9	187.2	199.3	207.8
65°	159.2	158.5	159.2	159.7	159.2	158.5	159.2	160.3	161.0	162.1	165.7
67.5°	138.7	137.6	136.5	137.1	136.5	137.6	138.7	138.9	140.5	141.2	143.7
70°	123.1	122.4	121.9	121.9	121.9	122.4	123.1	124.2	125.5	126.6	129.6
72.5°	107.9	107.8	107.2	106.7	107.2	107.8	107.9	110.0	110.8	111.9	114.0
75°	86.4	85.2	85.2	85.2	85.2	85.2	86.4	86.9	87.6	89.3	90.5
77.5°	65.8	65.2	64.6	64.1	64.6	65.2	65.8	65.9	66.9	67.2	68.5
80°	52.1	51.5	50.9	50.9	50.9	51.5	52.1	52.7	52.7	54.4	53.9
82.5°	39.8	39.1	39.1	38.6	39.1	39.1	39.8	39.9	39.9	41.2	41.0
85°	21.3	21.8	21.3	22.5	21.3	21.8	21.3	20.7	21.3	22.5	22.5
87.5°	12.7	12.3	12.9	12.5	12.9	12.3	12.7	12.6	12.8	12.6	12.3
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1637.4	1644.1	1654.0	1659.7	1669.2	1675.3	1678.6	1684.8	1688.1	1700.0	1712.3
5°	1546.0	1555.5	1572.0	1587.4	1604.0	1621.1	1633.5	1647.8	1660.8	1683.3	1706.9
7.5°	1441.2	1454.3	1480.0	1504.5	1533.3	1557.6	1579.0	1603.3	1625.0	1657.2	1690.7
10°	1362.6	1385.6	1419.4	1442.4	1480.3	1504.6	1538.3	1565.0	1595.1	1637.7	1675.6
12.5°	1294.9	1322.7	1349.8	1381.9	1415.9	1456.3	1493.3	1527.5	1563.4	1607.4	1651.9
15°	1172.1	1212.3	1254.3	1286.8	1333.0	1375.6	1418.8	1464.9	1508.7	1561.4	1619.3
17.5°	1014.0	1060.6	1131.2	1187.0	1241.2	1283.9	1337.4	1393.2	1444.8	1508.3	1572.9
20°	942.5	976.9	1024.8	1099.9	1181.5	1227.1	1281.6	1343.1	1402.2	1471.4	1540.7
22.5°	885.2	915.8	954.2	1012.8	1103.9	1166.0	1222.8	1285.3	1354.0	1424.6	1501.4
25°	803.4	824.7	865.0	912.3	975.1	1077.4	1139.5	1202.2	1276.8	1352.5	1440.1
27.5°	742.1	761.3	787.4	832.6	879.2	952.7	1051.5	1119.9	1194.2	1279.4	1370.3
30°	695.2	717.6	746.6	778.6	829.5	886.9	985.7	1065.0	1138.4	1225.9	1322.9
32.5°	661.1	678.9	703.6	736.0	778.4	833.4	912.3	1008.6	1080.1	1172.4	1273.7
35°	605.3	626.0	646.1	676.9	711.1	761.4	821.2	924.2	995.1	1086.3	1188.0
37.5°	559.2	571.9	594.1	618.5	654.7	692.2	744.0	836.3	913.2	1002.6	1106.8
40°	524.2	540.2	556.8	584.0	613.6	649.6	700.5	769.2	857.3	944.9	1046.6
42.5°	490.2	510.3	527.9	546.1	578.5	614.7	656.0	714.3	804.3	887.2	986.1
45°	449.1	462.1	480.5	500.5	527.2	557.9	594.6	645.5	731.9	803.4	896.3
47.5°	401.3	420.4	432.3	451.9	477.2	506.6	540.6	584.7	654.6	721.7	807.9
50°	368.6	388.2	405.3	423.0	445.5	473.9	502.3	544.9	601.1	671.5	752.0
52.5°	340.6	357.8	374.5	392.3	414.3	440.3	467.3	504.7	552.9	617.6	695.7
55°	302.4	313.0	330.1	347.9	367.4	392.3	418.3	449.7	491.1	545.5	608.9
57.5°	263.1	275.4	289.0	306.8	326.6	345.6	369.1	397.4	430.2	479.4	533.6
60°	240.8	250.3	261.5	279.8	298.2	315.3	337.9	361.5	392.3	434.9	481.0
62.5°	216.2	225.2	235.5	251.5	269.3	285.1	304.7	329.8	355.8	394.7	435.1
65°	175.1	188.2	198.2	212.4	227.2	243.8	259.1	279.3	302.4	333.1	369.2
67.5°	145.2	151.9	161.1	174.1	189.2	203.4	217.9	233.7	253.7	277.5	306.1
70°	132.0	134.3	136.1	148.5	162.7	176.9	190.5	205.3	222.5	242.0	266.8
72.5°	116.3	118.7	120.9	126.3	137.6	151.9	165.9	176.9	193.1	209.3	229.4
75°	92.3	95.9	97.6	100.6	104.7	114.2	127.2	137.9	147.3	159.7	175.8
77.5°	70.3	72.3	74.2	77.3	79.9	84.3	91.6	101.2	110.0	117.3	128.2
80°	55.6	56.2	58.6	59.7	63.3	66.3	69.8	77.5	86.4	89.3	97.0
82.5°	41.9	42.4	44.4	45.6	47.2	49.7	54.2	56.2	63.2	67.1	72.0
85°	23.1	22.5	24.3	24.3	25.4	26.7	27.8	30.8	32.5	37.3	38.4
87.5°	12.5	12.2	12.2	11.8	11.3	11.8	11.8	11.6	11.9	12.7	14.0
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1712.7	1714.1	1723.6	1727.9	1736.4	1739.7	1743.5	1742.6	1742.6	1744.5	1757.7
5°	1716.4	1728.2	1746.0	1763.2	1779.7	1793.9	1803.4	1812.8	1816.4	1833.5	1849.0
7.5°	1710.2	1732.1	1761.4	1787.5	1818.9	1843.3	1863.8	1882.0	1894.6	1919.6	1945.2
10°	1702.2	1733.0	1766.1	1799.8	1843.0	1875.5	1908.7	1934.1	1942.4	1979.7	2001.0
12.5°	1686.1	1727.2	1769.4	1813.1	1855.3	1900.1	1936.6	1962.0	1991.2	2024.6	2064.0
15°	1662.0	1709.3	1764.3	1820.5	1880.9	1935.3	1974.3	2018.7	2050.7	2087.4	2121.6
17.5°	1627.3	1688.3	1758.2	1823.3	1893.1	1951.5	2005.3	2047.8	2070.3	2091.2	2096.3
20°	1599.8	1665.5	1747.8	1824.7	1894.5	1961.9	2015.2	2050.7	2056.6	2057.2	2025.9
22.5°	1570.0	1644.2	1730.3	1809.0	1892.6	1967.6	2009.0	2024.2	2000.7	1960.6	1900.0
25°	1515.2	1601.1	1701.0	1790.9	1882.0	1953.0	1967.3	1940.6	1858.4	1772.0	1662.6
27.5°	1455.8	1552.3	1659.5	1759.4	1856.5	1900.5	1869.9	1773.9	1625.8	1497.0	1341.0
30°	1412.3	1520.5	1625.9	1737.7	1827.7	1846.6	1776.2	1634.8	1462.0	1267.9	1112.3
32.5°	1362.6	1476.0	1591.8	1707.4	1782.7	1764.2	1647.9	1473.8	1271.2	1080.5	933.4
35°	1291.6	1408.7	1533.6	1649.6	1697.5	1617.6	1443.7	1217.0	1010.0	831.9	730.7
37.5°	1209.6	1337.1	1467.0	1573.4	1570.0	1436.9	1200.0	966.1	792.0	686.7	614.7
40°	1151.4	1280.3	1420.6	1510.5	1472.0	1298.7	1041.9	821.2	694.0	610.0	557.3
42.5°	1095.6	1224.9	1364.2	1435.7	1368.9	1155.7	899.9	727.0	622.1	556.5	513.8
45°	1000.5	1137.2	1266.1	1305.8	1186.2	951.4	727.7	602.4	532.5	483.9	454.4
47.5°	907.6	1042.1	1159.8	1160.5	998.8	771.5	613.9	521.3	461.6	424.1	402.6
50°	850.8	978.6	1077.4	1062.0	878.6	686.3	549.0	469.2	419.5	390.5	368.0
52.5°	786.9	910.9	996.5	952.7	776.9	604.0	490.8	423.7	382.5	357.4	337.2
55°	694.0	804.1	864.4	798.2	633.6	502.3	414.7	362.1	331.4	310.0	292.8
57.5°	602.8	693.6	731.6	654.3	521.9	416.5	350.9	311.3	280.8	265.6	256.6
60°	545.5	623.0	649.6	564.5	453.8	364.4	310.6	273.9	251.5	241.4	232.6
62.5°	489.2	552.5	563.5	485.4	395.6	319.1	272.8	241.7	226.9	217.2	208.8
65°	405.9	451.5	446.1	383.4	313.0	253.2	219.5	200.5	189.3	175.8	161.0
67.5°	334.1	361.9	345.2	298.2	238.9	196.8	174.8	160.4	146.5	133.6	130.2
70°	288.7	304.7	287.0	243.8	195.8	165.1	147.3	130.2	121.9	119.0	113.6
72.5°	245.2	250.7	231.6	194.6	159.3	136.7	119.4	109.8	105.3	102.8	99.4
75°	184.0	179.9	163.3	134.3	110.7	95.2	90.0	86.4	83.5	81.1	79.3
77.5°	129.2	123.1	108.4	89.4	77.0	69.7	66.5	64.6	63.2	62.0	60.2
80°	97.0	92.9	78.1	63.9	58.6	55.0	53.2	50.9	50.9	49.7	47.9
82.5°	71.0	66.3	53.5	46.8	43.9	41.7	40.5	39.1	38.6	38.8	37.5
85°	37.3	30.1	26.7	25.4	23.6	22.5	23.1	21.8	21.8	21.8	21.3
87.5°	12.2	10.5	10.6	10.8	11.8	12.2	12.2	12.7	13.6	13.4	14.2
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8	1702.8
2.5°	1762.5	1768.6	1771.4	1771.4	1774.8	1773.3	1771.9
5°	1863.8	1875.0	1877.3	1888.0	1895.7	1893.3	1894.5
7.5°	1964.4	1982.5	2000.4	2008.6	2009.8	2014.6	2016.3
10°	2026.4	2041.2	2069.0	2064.8	2085.6	2097.4	2077.9
12.5°	2086.1	2106.0	2125.4	2130.7	2142.4	2146.2	2138.5
15°	2140.0	2150.7	2151.9	2148.9	2152.4	2149.5	2138.2
17.5°	2089.6	2072.3	2037.3	2020.7	2007.6	1988.2	1980.4
20°	2006.3	1955.4	1896.2	1872.6	1844.8	1790.4	1803.4
22.5°	1826.5	1768.4	1709.3	1640.2	1607.2	1555.6	1552.5
25°	1546.6	1446.6	1336.6	1259.6	1214.7	1163.2	1140.7
27.5°	1202.5	1076.6	986.4	940.8	899.2	858.4	856.8
30°	976.2	881.5	811.7	772.7	747.3	730.1	733.7
32.5°	822.9	758.0	711.0	678.5	659.7	646.8	646.6
35°	672.7	628.3	598.2	584.5	571.0	561.5	562.0
37.5°	575.7	549.0	532.3	517.2	508.7	504.1	501.5
40°	526.0	504.1	491.1	482.2	475.1	468.6	467.4
42.5°	486.7	468.6	455.6	448.6	441.9	437.4	436.1
45°	431.9	417.1	405.3	397.6	394.7	390.5	390.5
47.5°	384.2	369.7	360.4	355.6	350.5	347.8	347.7
50°	352.0	340.8	332.5	329.6	325.4	323.6	323.1
52.5°	323.2	314.8	308.9	306.8	305.1	302.8	303.2
55°	284.0	279.3	276.9	275.1	272.2	268.6	271.0
57.5°	251.0	246.9	240.6	235.0	232.3	229.8	230.8
60°	227.8	219.5	211.2	204.7	203.0	197.6	197.6
62.5°	198.4	186.8	176.6	173.0	171.2	168.7	168.3
65°	152.7	147.9	145.5	143.2	142.0	142.0	140.8
67.5°	126.5	124.6	122.0	121.5	120.2	119.8	119.5
70°	111.8	109.4	108.3	107.7	106.5	107.1	105.3
72.5°	97.6	95.8	95.5	94.0	93.3	93.4	92.0
75°	77.0	77.0	76.3	75.7	74.5	73.9	74.5
77.5°	59.2	59.3	58.2	58.1	58.0	58.1	57.5
80°	47.3	47.9	47.3	46.7	46.2	46.7	46.2
82.5°	37.4	36.6	36.5	36.3	36.2	35.8	35.8
85°	21.3	21.8	21.3	20.7	20.7	20.7	21.3
87.5°	14.0	14.3	14.4	14.5	14.7	14.8	14.4
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: P331841-940

CATALOG NUMBER: S122RDIW-S865D1440U940-4F0-1E-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)