

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: P331861-840

Luminaire Tested: **S122RDIW-S1005D1440U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331861-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S1005D1440U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 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: 9670.9 lumens
Efficiency: N/A
Efficacy: 116.7 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

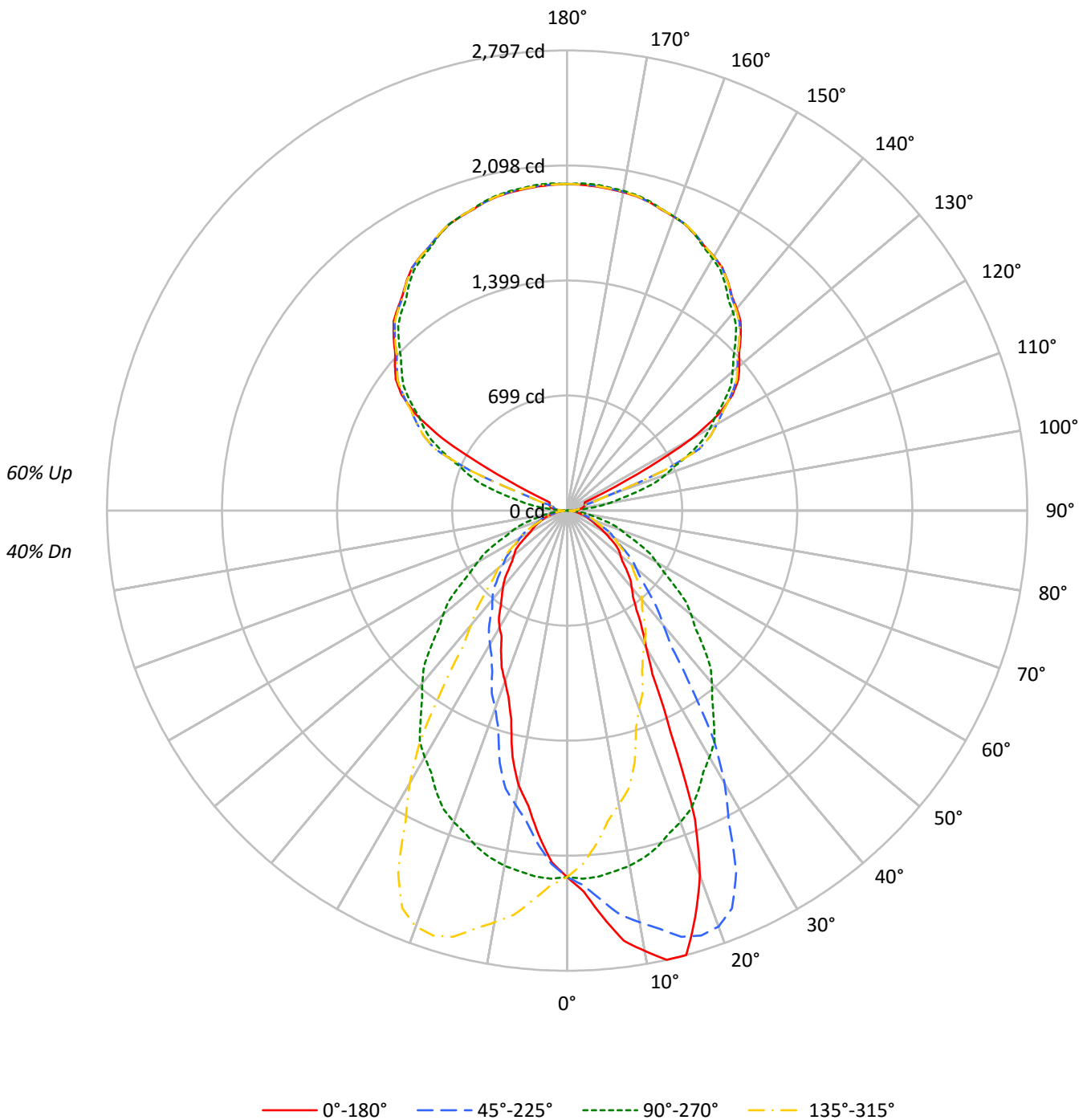
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	81	72	65	60	73	66	60	55	55	50	47	44	41	39	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	24	22	19
7	59	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	20	17
8	54	43	35	30	50	40	33	29	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	26	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35960	35960	35960	35960
5°	40161	36185	32083	36185
10°	44558	35931	27811	35931
15°	46748	35405	21912	35405
20°	40527	34625	18962	34625
25°	26580	33556	16930	33556
30°	17890	32261	15321	32261
35°	14491	30628	13819	30628
40°	12886	28854	12787	28854
45°	11663	26772	11415	26772
50°	10613	24707	10575	24707
55°	9979	22415	9847	22415
60°	8344	20315	8247	20315
65°	7037	18449	7981	18449
70°	6500	16475	7530	16475
75°	6089	14336	6949	14336
80°	5616	11799	6192	11799
85°	5169	9318	5446	9318



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	2.2
10°-20°	588.3	6.1
20°-30°	758.1	7.8
30°-40°	720.4	7.4
40°-50°	617.1	6.4
50°-60°	470.0	4.9
60°-70°	297.1	3.1
70°-80°	148.4	1.5
80°-90°	43.5	0.4
90°-100°	66.2	0.7
100°-110°	242.8	2.5
110°-120°	649.0	6.7
120°-130°	1071.4	11.1
130°-140°	1139.4	11.8
140°-150°	1059.0	11.0
150°-160°	851.5	8.8
160°-170°	548.7	5.7
170°-180°	188.9	2.0
0°-30°	1557.5	16.1
0°-40°	2277.9	23.6
0°-60°	3365.0	34.8
0°-90°	3854.0	39.9
90°-120°	958.1	9.9
90°-150°	4227.9	43.7
90°-180°	5817.0	60.1
0°-180°	9670.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2227	2227	2227	2227	2227	
5°	2478	2233	1980	2233	2478	245
15°	2797	2118	1311	2118	2797	754
25°	1492	1884	950	1884	1492	708
35°	735	1554	701	1554	735	470
45°	511	1172	500	1172	511	395
55°	354	796	350	796	354	311
65°	184	483	209	483	184	187
75°	98	230	111	230	98	103
85°	28	50	29	50	28	31
90°	39	1	39	1	39	18
95°	62	93	62	93	62	58
105°	109	437	109	437	109	114
115°	118	826	118	826	118	295
125°	1228	1168	1228	1168	1228	1063
135°	1492	1445	1492	1445	1492	1150
145°	1702	1676	1702	1676	1702	1064
155°	1847	1846	1847	1846	1847	852
165°	1940	1945	1940	1945	1940	548
175°	1978	1989	1978	1989	1978	188
180°	1985	1985	1985	1985	1985	



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2317.5	2319.5	2321.3	2316.9	2316.9	2313.2	2305.2	2299.0	2281.7	2279.2	2279.2
5°	2477.9	2476.4	2479.4	2469.4	2455.5	2452.4	2437.7	2418.3	2398.2	2375.8	2371.2
7.5°	2637.4	2635.0	2628.8	2627.2	2616.5	2593.0	2569.4	2544.2	2510.7	2478.1	2461.6
10°	2717.8	2743.4	2727.8	2700.8	2706.2	2669.9	2650.5	2617.3	2589.4	2540.6	2529.8
12.5°	2797.0	2807.1	2802.2	2786.8	2779.9	2754.6	2728.5	2699.6	2648.2	2604.3	2566.3
15°	2796.7	2811.5	2815.3	2810.7	2814.6	2813.0	2799.0	2775.1	2730.2	2682.2	2640.4
17.5°	2590.3	2600.5	2625.9	2643.0	2664.7	2710.6	2733.1	2742.0	2735.3	2708.0	2678.5
20°	2358.7	2341.7	2412.9	2449.3	2480.2	2557.6	2624.1	2649.7	2690.7	2690.0	2682.2
22.5°	2030.6	2034.7	2102.1	2145.4	2235.7	2313.1	2388.9	2485.1	2564.5	2616.9	2647.6
25°	1492.0	1521.5	1588.7	1647.6	1748.2	1892.1	2022.9	2174.5	2317.7	2430.7	2538.3
27.5°	1120.5	1122.8	1176.1	1230.4	1290.2	1408.2	1572.8	1753.9	1958.0	2126.5	2320.2
30°	959.6	954.9	977.3	1010.7	1061.8	1153.1	1276.9	1454.9	1658.4	1912.2	2138.2
32.5°	845.7	846.0	862.8	887.5	929.9	991.5	1076.3	1220.8	1413.2	1662.7	1927.7
35°	735.2	734.4	746.8	764.6	782.3	821.8	879.9	955.7	1088.0	1321.0	1591.9
37.5°	655.9	659.3	665.4	676.5	696.2	718.1	753.0	803.9	898.2	1035.9	1263.5
40°	611.4	612.9	621.4	630.7	642.3	659.3	687.9	729.0	797.9	907.8	1074.1
42.5°	570.5	572.1	578.0	586.7	595.9	612.9	636.6	672.1	727.9	813.6	950.9
45°	510.8	510.8	516.1	520.1	530.1	545.5	564.9	594.3	633.0	696.5	787.8
47.5°	454.7	454.8	458.5	465.1	471.4	483.5	502.5	526.5	554.7	603.8	681.8
50°	422.5	423.3	425.7	431.0	434.9	445.8	460.5	481.3	510.8	548.7	613.7
52.5°	396.6	396.1	399.0	401.3	403.9	411.7	422.7	441.1	467.4	500.4	554.2
55°	354.5	351.3	356.0	359.8	362.1	365.3	371.4	383.0	405.5	433.3	473.6
57.5°	301.8	300.5	303.9	307.4	314.7	323.1	328.3	335.7	347.3	367.3	407.2
60°	258.4	258.4	265.4	267.7	276.3	287.1	297.9	304.2	315.8	328.9	358.3
62.5°	220.0	220.8	224.0	226.3	231.1	244.4	259.5	273.2	284.2	296.7	316.2
65°	184.2	185.7	185.7	187.2	190.4	193.5	199.7	210.5	229.8	247.6	262.4
67.5°	156.3	156.8	157.2	158.8	159.6	163.0	165.4	170.3	174.7	191.6	209.8
70°	137.7	140.1	139.3	140.9	141.6	143.2	146.2	148.6	155.5	159.5	170.3
72.5°	120.4	122.1	122.0	122.9	124.9	125.2	127.6	130.0	134.5	137.7	143.6
75°	97.6	96.7	97.6	99.1	99.9	100.6	100.6	103.7	106.0	109.1	113.0
77.5°	75.2	76.0	75.8	76.0	76.1	77.6	77.4	78.8	81.1	82.6	84.5
80°	60.4	61.1	60.4	61.1	61.9	62.7	61.9	62.7	65.0	66.6	66.6
82.5°	46.8	46.9	47.4	47.6	47.7	47.9	48.9	49.1	50.8	50.5	51.1
85°	27.9	27.1	27.1	27.1	27.9	28.7	27.9	27.9	28.7	28.7	28.7
87.5°	17.7	18.2	18.0	17.9	17.8	17.6	17.3	17.6	16.6	16.9	15.8
90°	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9	30.3	28.7	26.2
92.5°	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9	34.1	33.3	32.0
95°	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2	57.6	56.0	53.8
97.5°	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6	76.2	74.9	69.8
100°	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9	84.4	81.9	76.4
102.5°	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8	87.5	84.1	129.6
105°	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6	91.1	87.7	174.7
107.5°	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5	119.1	122.7	227.1
110°	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5	219.4	251.4	343.6



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1	517.6	634.0	656.7
115°	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7	738.4	886.2	878.2
117.5°	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1	945.8	981.6	976.0
120°	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5	1056.6	1052.8	1047.0
122.5°	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2	1122.9	1120.5	1114.3
125°	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1	1215.9	1213.7	1207.6
127.5°	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0	1300.8	1297.6	1293.0
130°	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6	1355.0	1351.5	1348.0
132.5°	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5	1408.6	1405.5	1402.0
135°	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1	1484.0	1480.8	1477.9
137.5°	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4	1554.3	1551.2	1547.9
140°	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9	1600.0	1597.1	1593.7
142.5°	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9	1642.2	1639.6	1635.6
145°	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5	1701.3	1699.1	1693.6
147.5°	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7	1753.0	1751.4	1746.1
150°	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2	1784.3	1782.4	1777.3
152.5°	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9	1813.0	1811.1	1806.2
155°	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7	1851.8	1849.9	1846.1
157.5°	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4	1884.3	1882.1	1879.4
160°	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4	1903.5	1901.6	1899.7
162.5°	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2	1921.1	1918.8	1917.2
165°	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4	1939.4
167.5°	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0	1960.8	1958.5	1957.6
170°	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2	1969.9	1967.7	1967.0
172.5°	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0	1976.8	1974.6	1974.0
175°	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5	1984.3	1982.1	1981.5
177.5°	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3	1985.6	1983.8	1983.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2280.5	2275.4	2271.2	2260.0	2254.4	2242.0	2240.2	2239.6	2223.5	2208.0	2203.6
5°	2358.7	2346.3	2327.8	2306.1	2283.7	2260.5	2245.0	2232.6	2201.6	2172.2	2155.3
7.5°	2437.7	2411.1	2379.0	2338.0	2303.8	2265.4	2237.0	2211.4	2167.5	2125.4	2097.0
10°	2496.5	2453.2	2410.5	2354.1	2310.0	2266.6	2226.4	2191.6	2142.0	2086.4	2046.9
12.5°	2533.0	2485.4	2426.7	2371.5	2314.3	2259.3	2205.3	2160.6	2102.4	2044.9	1998.0
15°	2582.4	2531.3	2460.1	2381.2	2307.6	2235.7	2173.8	2118.1	2042.3	1973.4	1916.1
17.5°	2622.8	2552.5	2476.1	2384.8	2299.7	2208.2	2128.5	2057.3	1972.9	1889.8	1822.3
20°	2635.7	2566.2	2477.9	2386.6	2286.0	2178.5	2092.5	2015.2	1924.6	1834.0	1756.7
22.5°	2627.8	2573.5	2475.5	2366.2	2263.1	2150.6	2053.6	1963.8	1863.3	1770.9	1681.1
25°	2573.1	2554.6	2461.6	2342.5	2224.8	2094.1	1981.9	1883.6	1769.1	1670.0	1572.5
27.5°	2445.7	2485.8	2428.2	2301.3	2170.5	2030.3	1904.2	1792.3	1673.4	1562.0	1464.8
30°	2323.2	2415.2	2390.5	2272.8	2126.6	1988.8	1847.2	1730.4	1603.5	1488.9	1393.0
32.5°	2155.4	2307.5	2331.7	2233.2	2082.0	1930.7	1782.2	1666.0	1533.5	1412.8	1319.3
35°	1888.2	2115.8	2220.2	2157.6	2005.9	1842.6	1689.3	1553.9	1420.8	1301.6	1208.8
37.5°	1569.5	1879.5	2053.6	2058.0	1918.7	1749.0	1582.1	1447.6	1311.4	1194.4	1094.0
40°	1362.8	1698.6	1925.4	1975.7	1858.1	1674.7	1505.9	1369.0	1235.9	1121.4	1006.0
42.5°	1177.1	1511.7	1790.4	1877.8	1784.4	1602.3	1432.9	1289.7	1160.3	1052.0	934.2
45°	951.9	1244.4	1551.6	1707.9	1656.1	1487.3	1308.6	1172.5	1050.9	957.3	844.2
47.5°	802.9	1009.2	1306.5	1517.8	1516.9	1362.9	1187.1	1056.6	943.9	856.2	764.8
50°	718.1	897.7	1149.2	1389.1	1409.2	1280.0	1112.8	983.6	878.4	786.3	712.8
52.5°	642.0	789.9	1016.1	1246.1	1303.3	1191.4	1029.3	909.9	807.8	723.1	660.1
55°	542.5	657.0	828.8	1043.9	1130.6	1051.7	907.8	796.3	713.5	642.3	588.1
57.5°	458.9	544.8	682.7	855.9	956.8	907.2	788.4	697.9	627.0	562.6	519.9
60°	406.3	476.7	593.6	738.3	849.7	814.9	713.5	629.1	568.8	513.1	472.8
62.5°	356.8	417.3	517.5	634.9	737.0	722.7	639.9	569.1	516.1	465.4	431.3
65°	287.1	331.2	409.4	501.5	583.5	590.5	530.9	482.9	435.7	395.5	365.3
67.5°	228.6	257.4	312.5	390.0	451.5	473.4	437.1	400.4	362.9	331.8	305.7
70°	192.7	215.9	256.1	318.8	375.4	398.5	377.7	349.0	316.5	290.9	268.5
72.5°	156.1	178.7	208.4	254.5	302.9	328.0	320.7	300.1	273.8	252.6	231.4
75°	117.6	124.6	144.7	175.7	213.6	235.3	240.7	229.8	208.9	192.7	180.3
77.5°	86.9	91.2	100.8	117.0	141.8	161.1	169.1	167.7	153.4	143.9	132.3
80°	69.7	72.0	76.6	83.6	102.2	121.5	126.9	126.9	116.8	113.0	101.4
82.5°	52.9	54.6	57.5	61.3	70.0	86.8	92.9	94.1	87.8	82.6	73.5
85°	30.2	29.4	31.0	33.3	34.8	39.5	48.8	50.3	48.8	42.5	40.2
87.5°	15.2	15.3	14.8	13.6	13.5	13.4	15.9	18.3	16.5	15.3	14.7
90°	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4	4.9	8.5	12.0
92.5°	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0	28.7	28.4	28.1
95°	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3	82.8	72.3	61.8
97.5°	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3	155.6	125.9	96.2
100°	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2	210.5	166.7	123.0
102.5°	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0	320.8	311.5	302.3
105°	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7	446.2	455.8	465.3
107.5°	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2	565.8	573.6	581.3
110°	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3	643.0	649.6	656.4



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8	715.7	721.6	727.6
115°	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9	831.3	836.7	842.1
117.5°	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6	935.6	941.7	947.8
120°	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4	1010.2	1014.9	1019.8
122.5°	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8	1074.8	1079.8	1084.9
125°	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7	1171.8	1176.0	1180.1
127.5°	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5	1261.0	1265.7	1270.2
130°	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7	1317.9	1322.9	1328.1
132.5°	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2	1374.5	1378.9	1383.2
135°	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9	1450.0	1455.1	1460.2
137.5°	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5	1524.0	1527.6	1531.2
140°	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8	1572.4	1575.0	1577.5
142.5°	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2	1613.5	1615.8	1618.1
145°	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2	1675.8	1675.5	1675.2
147.5°	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7	1731.5	1730.3	1729.1
150°	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5	1767.3	1765.0	1762.8
152.5°	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5	1798.1	1795.5	1793.0
155°	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6	1842.7	1839.9	1836.9
157.5°	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0	1878.6	1876.1	1873.7
160°	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1899.7	1897.8	1895.9
162.5°	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0	1918.1	1916.2	1914.3
165°	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7	1942.8	1940.9	1938.9
167.5°	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1	1961.2	1959.2	1957.3
170°	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5	1971.6	1969.6	1967.7
172.5°	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3	1978.4	1976.5	1974.6
175°	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2	1987.0	1984.8	1982.6
177.5°	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6	1988.9	1987.1	1985.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2195.6	2191.3	2183.2	2170.8	2163.4	2150.4	2141.7	2146.7	2148.0	2146.7	2145.5
5°	2136.7	2120.4	2098.0	2076.3	2056.2	2034.5	2022.2	2016.7	2005.9	1999.6	1996.6
7.5°	2065.3	2037.3	2005.6	1967.8	1935.7	1902.2	1885.0	1876.4	1854.3	1842.3	1831.7
10°	2012.1	1967.9	1936.2	1886.7	1856.5	1812.4	1782.2	1783.0	1752.8	1735.8	1723.4
12.5°	1953.3	1904.8	1852.0	1807.5	1765.5	1730.1	1693.6	1679.0	1647.0	1630.5	1597.1
15°	1855.7	1799.3	1743.5	1683.1	1640.6	1585.7	1533.1	1468.8	1416.9	1372.1	1359.7
17.5°	1749.3	1679.3	1623.5	1552.6	1479.7	1387.3	1326.3	1289.0	1257.7	1234.1	1216.4
20°	1676.2	1605.0	1545.4	1438.7	1340.3	1277.7	1232.7	1204.2	1171.6	1146.1	1132.2
22.5°	1599.4	1525.1	1443.9	1324.7	1248.1	1197.8	1157.8	1124.9	1102.9	1083.0	1070.3
25°	1490.5	1409.2	1275.4	1193.3	1131.4	1078.7	1050.9	1030.8	1007.5	980.5	968.2
27.5°	1375.3	1246.1	1149.9	1088.9	1029.9	995.6	970.6	940.6	919.8	907.6	894.7
30°	1289.3	1160.0	1085.0	1018.4	976.6	938.7	909.3	892.3	872.1	851.2	842.7
32.5°	1193.3	1090.0	1018.1	962.7	920.3	888.0	864.7	837.2	822.6	809.8	791.9
35°	1074.1	995.9	930.2	885.3	845.1	818.8	791.6	775.4	749.1	738.3	731.3
37.5°	973.2	905.4	856.4	809.0	777.1	748.0	731.4	705.6	694.2	679.1	664.5
40°	916.3	849.7	802.5	763.8	728.2	706.5	685.6	664.8	647.7	640.8	623.0
42.5°	858.1	803.9	756.7	714.3	690.4	667.5	641.1	625.7	608.1	596.8	585.8
45°	777.7	729.7	689.5	654.7	628.3	604.4	587.3	561.8	551.8	529.4	520.1
47.5°	707.2	662.6	624.2	591.1	565.4	549.8	524.8	504.8	488.8	475.0	463.1
50°	657.0	619.9	582.7	553.3	530.1	507.7	482.1	472.0	447.3	440.3	433.3
52.5°	611.2	575.9	541.9	513.1	489.9	468.1	445.6	432.4	415.8	408.8	403.6
55°	547.1	513.1	480.6	455.0	431.8	409.4	395.5	379.2	371.4	366.1	359.8
57.5°	482.7	452.1	427.2	401.3	378.0	360.1	344.1	334.3	326.3	319.1	311.7
60°	441.9	412.4	390.0	366.1	342.0	327.3	315.0	303.4	294.1	283.3	280.1
62.5°	398.5	372.8	352.2	328.9	308.0	294.6	282.8	271.8	260.6	244.9	240.5
65°	338.9	318.8	297.2	277.8	259.2	246.1	229.0	216.7	212.1	210.5	209.7
67.5°	285.1	266.1	247.5	227.6	210.8	198.5	190.0	188.0	184.8	183.9	181.7
70°	249.2	231.4	212.8	194.2	178.0	175.7	172.6	169.5	165.6	164.1	162.5
72.5°	217.0	198.5	180.0	165.1	158.1	155.2	152.2	149.1	146.4	144.9	143.9
75°	166.4	149.4	136.9	131.6	127.6	125.3	120.7	118.4	116.8	114.5	113.7
77.5°	119.8	110.2	104.5	101.1	97.0	94.5	91.9	89.6	88.0	87.5	86.2
80°	91.3	86.6	82.8	78.2	76.6	73.5	72.7	70.4	71.2	68.9	68.9
82.5°	70.9	65.0	61.8	59.6	58.1	55.5	54.8	53.7	53.8	52.1	52.1
85°	36.4	34.8	33.3	31.7	31.7	29.4	30.2	29.4	29.4	27.9	27.1
87.5°	14.8	14.8	14.1	14.6	15.1	15.0	15.3	15.0	15.3	15.7	15.2
90°	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9	33.5	35.1	36.3
92.5°	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9	35.9	36.7	37.3
95°	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2	60.8	62.4	63.0
97.5°	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6	78.8	80.1	80.9
100°	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9	89.6	92.1	93.7
102.5°	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8	94.1	97.5	99.6
105°	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6	98.2	101.7	104.0
107.5°	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5	111.9	108.4	107.2
110°	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5	155.6	123.7	108.4



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1	284.7	168.2	110.5
115°	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7	442.8	295.1	209.6
117.5°	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1	874.3	838.6	782.9
120°	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5	1064.3	1068.1	1048.4
122.5°	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2	1127.5	1129.7	1126.7
125°	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1	1220.3	1222.5	1224.2
127.5°	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0	1307.3	1310.5	1312.3
130°	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6	1362.1	1365.5	1367.2
132.5°	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5	1414.5	1417.5	1418.9
135°	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1	1490.4	1493.6	1494.8
137.5°	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4	1560.5	1563.7	1564.7
140°	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9	1605.8	1608.6	1609.2
142.5°	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9	1647.5	1650.1	1650.6
145°	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5	1705.8	1708.1	1708.4
147.5°	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7	1756.4	1758.1	1758.2
150°	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2	1788.2	1790.1	1790.2
152.5°	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9	1816.8	1818.8	1818.7
155°	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7	1855.6	1857.5	1857.2
157.5°	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4	1888.5	1890.8	1890.6
160°	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4	1907.3	1909.3	1909.1
162.5°	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2	1925.4	1927.5	1927.2
165°	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3
167.5°	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0	1965.2	1967.4	1967.1
170°	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2	1974.4	1976.6	1976.3
172.5°	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0	1981.3	1983.5	1983.2
175°	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5	1988.7	1990.9	1990.5
177.5°	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3	1989.1	1990.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2138.7	2139.9	2138.1	2139.3	2138.1	2139.9	2138.7	2145.5	2146.7	2148.0	2146.7
5°	1992.7	1983.4	1981.9	1979.5	1981.9	1983.4	1992.7	1996.6	1999.6	2005.9	2016.7
7.5°	1818.5	1817.1	1813.2	1807.8	1813.2	1817.1	1818.5	1831.7	1842.3	1854.3	1876.4
10°	1706.4	1702.5	1701.7	1696.3	1701.7	1702.5	1706.4	1723.4	1735.8	1752.8	1783.0
12.5°	1575.1	1550.2	1547.6	1534.1	1547.6	1550.2	1575.1	1597.1	1630.5	1647.0	1679.0
15°	1341.1	1336.5	1321.0	1310.9	1321.0	1336.5	1341.1	1359.7	1372.1	1416.9	1468.8
17.5°	1207.4	1192.2	1187.4	1185.3	1187.4	1192.2	1207.4	1216.4	1234.1	1257.7	1289.0
20°	1121.4	1107.4	1105.1	1103.6	1105.1	1107.4	1121.4	1132.2	1146.1	1171.6	1204.2
22.5°	1061.9	1047.3	1041.3	1036.6	1041.3	1047.3	1061.9	1070.3	1083.0	1102.9	1124.9
25°	960.4	954.9	951.9	950.3	951.9	954.9	960.4	968.2	980.5	1007.5	1030.8
27.5°	881.0	869.1	866.8	862.7	866.8	869.1	881.0	894.7	907.6	919.8	940.6
30°	835.8	831.9	826.5	821.8	826.5	831.9	835.8	842.7	851.2	872.1	892.3
32.5°	782.5	779.3	774.5	772.3	774.5	779.3	782.5	791.9	809.8	822.6	837.2
35°	723.6	712.8	708.1	701.1	708.1	712.8	723.6	731.3	738.3	749.1	775.4
37.5°	661.2	655.5	648.9	651.3	648.9	655.5	661.2	664.5	679.1	694.2	705.6
40°	612.9	609.0	607.5	606.7	607.5	609.0	612.9	623.0	640.8	647.7	664.8
42.5°	574.5	563.8	559.8	559.7	559.8	563.8	574.5	585.8	596.8	608.1	625.7
45°	516.1	506.1	499.2	499.9	499.2	506.1	516.1	520.1	529.4	551.8	561.8
47.5°	456.5	456.2	451.8	453.1	451.8	456.2	456.5	463.1	475.0	488.8	504.8
50°	428.0	423.3	420.2	421.0	420.2	423.3	428.0	433.3	440.3	447.3	472.0
52.5°	400.7	396.7	394.3	397.5	394.3	396.7	400.7	403.6	408.8	415.8	432.4
55°	356.0	351.3	350.5	349.8	350.5	351.3	356.0	359.8	366.1	371.4	379.2
57.5°	306.0	302.9	298.2	296.2	298.2	302.9	306.0	311.7	319.1	326.3	334.3
60°	270.0	263.9	256.1	255.4	256.1	263.9	270.0	280.1	283.3	294.1	303.4
62.5°	237.2	236.0	234.5	234.3	234.5	236.0	237.2	240.5	244.9	260.6	271.8
65°	208.1	207.4	208.1	208.9	208.1	207.4	208.1	209.7	210.5	212.1	216.7
67.5°	181.4	180.0	178.6	179.3	178.6	180.0	181.4	181.7	183.9	184.8	188.0
70°	161.0	160.2	159.5	159.5	159.5	160.2	161.0	162.5	164.1	165.6	169.5
72.5°	141.2	141.0	140.3	139.6	140.3	141.0	141.2	143.9	144.9	146.4	149.1
75°	113.0	111.4	111.4	111.4	111.4	111.4	113.0	113.7	114.5	116.8	118.4
77.5°	86.0	85.2	84.5	83.9	84.5	85.2	86.0	86.2	87.5	88.0	89.6
80°	68.1	67.4	66.6	66.6	66.6	67.4	68.1	68.9	68.9	71.2	70.4
82.5°	52.0	51.2	51.1	50.5	51.1	51.2	52.0	52.1	52.1	53.8	53.7
85°	27.9	28.7	27.9	29.4	27.9	28.7	27.9	27.1	27.9	29.4	29.4
87.5°	15.5	14.9	15.7	15.1	15.7	14.9	15.5	15.2	15.7	15.3	15.0
90°	36.9	37.5	38.2	38.8	38.2	37.5	36.9	36.3	35.1	33.5	31.9
92.5°	37.7	38.0	38.4	38.8	38.4	38.0	37.7	37.3	36.7	35.9	34.9
95°	62.7	62.4	62.1	61.8	62.1	62.4	62.7	63.0	62.4	60.8	59.2
97.5°	81.3	81.7	82.1	82.4	82.1	81.7	81.3	80.9	80.1	78.8	77.6
100°	94.3	94.9	95.6	96.2	95.6	94.9	94.3	93.7	92.1	89.6	86.9
102.5°	100.5	101.3	102.2	103.1	102.2	101.3	100.5	99.6	97.5	94.1	90.8
105°	105.3	106.6	107.9	109.2	107.9	106.6	105.3	104.0	101.7	98.2	94.6
107.5°	108.5	109.8	111.1	112.3	111.1	109.8	108.5	107.2	108.4	111.9	115.5
110°	109.7	110.9	112.2	113.5	112.2	110.9	109.7	108.4	123.7	155.6	187.5



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	111.6	112.6	113.6	114.6	113.6	112.6	111.6	110.5	168.2	284.7	401.1
115°	186.7	163.7	140.8	117.8	140.8	163.7	186.7	209.6	295.1	442.8	590.7
117.5°	707.4	631.9	556.3	480.9	556.3	631.9	707.4	782.9	838.6	874.3	910.1
120°	1005.4	962.3	919.2	876.2	919.2	962.3	1005.4	1048.4	1068.1	1064.3	1060.5
122.5°	1118.3	1110.0	1101.7	1093.3	1101.7	1110.0	1118.3	1126.7	1129.7	1127.5	1125.2
125°	1225.2	1226.1	1227.1	1228.0	1227.1	1226.1	1225.2	1224.2	1222.5	1220.3	1218.1
127.5°	1312.4	1312.6	1312.8	1313.0	1312.8	1312.6	1312.4	1312.3	1310.5	1307.3	1304.0
130°	1366.9	1366.5	1366.2	1365.8	1366.2	1366.5	1366.9	1367.2	1365.5	1362.1	1358.6
132.5°	1418.6	1418.3	1418.0	1417.5	1418.0	1418.3	1418.6	1418.9	1417.5	1414.5	1411.5
135°	1494.2	1493.6	1492.9	1492.3	1492.9	1493.6	1494.2	1494.8	1493.6	1490.4	1487.1
137.5°	1563.6	1562.6	1561.5	1560.3	1561.5	1562.6	1563.6	1564.7	1563.7	1560.5	1557.4
140°	1607.7	1606.1	1604.5	1602.9	1604.5	1606.1	1607.7	1609.2	1608.6	1605.8	1602.9
142.5°	1649.0	1647.4	1645.9	1644.3	1645.9	1647.4	1649.0	1650.6	1650.1	1647.5	1644.9
145°	1706.8	1705.2	1703.5	1702.0	1703.5	1705.2	1706.8	1708.4	1708.1	1705.8	1703.5
147.5°	1756.9	1755.5	1754.1	1752.8	1754.1	1755.5	1756.9	1758.2	1758.1	1756.4	1754.7
150°	1788.7	1787.1	1785.4	1783.8	1785.4	1787.1	1788.7	1790.2	1790.1	1788.2	1786.2
152.5°	1816.5	1814.5	1812.4	1810.3	1812.4	1814.5	1816.5	1818.7	1818.8	1816.8	1814.9
155°	1854.7	1852.2	1849.6	1847.0	1849.6	1852.2	1854.7	1857.2	1857.5	1855.6	1853.7
157.5°	1888.1	1885.6	1883.1	1880.7	1883.1	1885.6	1888.1	1890.6	1890.8	1888.5	1886.4
160°	1906.9	1904.6	1902.4	1900.2	1902.4	1904.6	1906.9	1909.1	1909.3	1907.3	1905.4
162.5°	1924.5	1921.8	1919.0	1916.3	1919.0	1921.8	1924.5	1927.2	1927.5	1925.4	1923.2
165°	1947.1	1944.9	1942.7	1940.4	1942.7	1944.9	1947.1	1949.3	1949.3	1947.1	1944.9
167.5°	1964.3	1961.4	1958.5	1955.6	1958.5	1961.4	1964.3	1967.1	1967.4	1965.2	1963.0
170°	1973.5	1970.5	1967.7	1964.8	1967.7	1970.5	1973.5	1976.3	1976.6	1974.4	1972.2
172.5°	1980.3	1977.4	1974.6	1971.7	1974.6	1977.4	1980.3	1983.2	1983.5	1981.3	1979.0
175°	1987.3	1984.1	1981.0	1977.7	1981.0	1984.1	1987.3	1990.5	1990.9	1988.7	1986.5
177.5°	1988.3	1986.1	1983.8	1981.5	1983.8	1986.1	1988.3	1990.6	1990.9	1989.1	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2141.7	2150.4	2163.4	2170.8	2183.2	2191.3	2195.6	2203.6	2208.0	2223.5	2239.6
5°	2022.2	2034.5	2056.2	2076.3	2098.0	2120.4	2136.7	2155.3	2172.2	2201.6	2232.6
7.5°	1885.0	1902.2	1935.7	1967.8	2005.6	2037.3	2065.3	2097.0	2125.4	2167.5	2211.4
10°	1782.2	1812.4	1856.5	1886.7	1936.2	1967.9	2012.1	2046.9	2086.4	2142.0	2191.6
12.5°	1693.6	1730.1	1765.5	1807.5	1852.0	1904.8	1953.3	1998.0	2044.9	2102.4	2160.6
15°	1533.1	1585.7	1640.6	1683.1	1743.5	1799.3	1855.7	1916.1	1973.4	2042.3	2118.1
17.5°	1326.3	1387.3	1479.7	1552.6	1623.5	1679.3	1749.3	1822.3	1889.8	1972.9	2057.3
20°	1232.7	1277.7	1340.3	1438.7	1545.4	1605.0	1676.2	1756.7	1834.0	1924.6	2015.2
22.5°	1157.8	1197.8	1248.1	1324.7	1443.9	1525.1	1599.4	1681.1	1770.9	1863.3	1963.8
25°	1050.9	1078.7	1131.4	1193.3	1275.4	1409.2	1490.5	1572.5	1670.0	1769.1	1883.6
27.5°	970.6	995.6	1029.9	1088.9	1149.9	1246.1	1375.3	1464.8	1562.0	1673.4	1792.3
30°	909.3	938.7	976.6	1018.4	1085.0	1160.0	1289.3	1393.0	1488.9	1603.5	1730.4
32.5°	864.7	888.0	920.3	962.7	1018.1	1090.0	1193.3	1319.3	1412.8	1533.5	1666.0
35°	791.6	818.8	845.1	885.3	930.2	995.9	1074.1	1208.8	1301.6	1420.8	1553.9
37.5°	731.4	748.0	777.1	809.0	856.4	905.4	973.2	1094.0	1194.4	1311.4	1447.6
40°	685.6	706.5	728.2	763.8	802.5	849.7	916.3	1006.0	1121.4	1235.9	1369.0
42.5°	641.1	667.5	690.4	714.3	756.7	803.9	858.1	934.2	1052.0	1160.3	1289.7
45°	587.3	604.4	628.3	654.7	689.5	729.7	777.7	844.2	957.3	1050.9	1172.5
47.5°	524.8	549.8	565.4	591.1	624.2	662.6	707.2	764.8	856.2	943.9	1056.6
50°	482.1	507.7	530.1	553.3	582.7	619.9	657.0	712.8	786.3	878.4	983.6
52.5°	445.6	468.1	489.9	513.1	541.9	575.9	611.2	660.1	723.1	807.8	909.9
55°	395.5	409.4	431.8	455.0	480.6	513.1	547.1	588.1	642.3	713.5	796.3
57.5°	344.1	360.1	378.0	401.3	427.2	452.1	482.7	519.9	562.6	627.0	697.9
60°	315.0	327.3	342.0	366.1	390.0	412.4	441.9	472.8	513.1	568.8	629.1
62.5°	282.8	294.6	308.0	328.9	352.2	372.8	398.5	431.3	465.4	516.1	569.1
65°	229.0	246.1	259.2	277.8	297.2	318.8	338.9	365.3	395.5	435.7	482.9
67.5°	190.0	198.5	210.8	227.6	247.5	266.1	285.1	305.7	331.8	362.9	400.4
70°	172.6	175.7	178.0	194.2	212.8	231.4	249.2	268.5	290.9	316.5	349.0
72.5°	152.2	155.2	158.1	165.1	180.0	198.5	217.0	231.4	252.6	273.8	300.1
75°	120.7	125.3	127.6	131.6	136.9	149.4	166.4	180.3	192.7	208.9	229.8
77.5°	91.9	94.5	97.0	101.1	104.5	110.2	119.8	132.3	143.9	153.4	167.7
80°	72.7	73.5	76.6	78.2	82.8	86.6	91.3	101.4	113.0	116.8	126.9
82.5°	54.8	55.5	58.1	59.6	61.8	65.0	70.9	73.5	82.6	87.8	94.1
85°	30.2	29.4	31.7	31.7	33.3	34.8	36.4	40.2	42.5	48.8	50.3
87.5°	15.3	15.0	15.1	14.6	14.1	14.8	14.8	14.7	15.3	16.5	18.3
90°	30.3	28.7	26.2	23.6	21.1	18.5	15.5	12.0	8.5	4.9	1.4
92.5°	34.1	33.3	32.0	30.8	29.5	28.2	27.8	28.1	28.4	28.7	29.0
95°	57.6	56.0	53.8	51.5	49.3	47.1	51.2	61.8	72.3	82.8	93.3
97.5°	76.2	74.9	69.8	64.6	59.5	54.3	66.6	96.2	125.9	155.6	185.3
100°	84.4	81.9	76.4	71.0	65.5	60.2	79.3	123.0	166.7	210.5	254.2
102.5°	87.5	84.1	129.6	174.9	220.4	265.7	293.1	302.3	311.5	320.8	330.0
105°	91.1	87.7	174.7	261.9	349.0	436.2	474.9	465.3	455.8	446.2	436.7
107.5°	119.1	122.7	227.1	331.6	436.2	540.7	589.1	581.3	573.6	565.8	558.2
110°	219.4	251.4	343.6	435.9	528.1	620.3	663.1	656.4	649.6	643.0	636.3



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	517.6	634.0	656.7	679.5	702.4	725.1	733.6	727.6	721.6	715.7	709.8
115°	738.4	886.2	878.2	870.2	862.2	854.2	847.6	842.1	836.7	831.3	825.9
117.5°	945.8	981.6	976.0	970.6	965.0	959.6	953.8	947.8	941.7	935.6	929.6
120°	1056.6	1052.8	1047.0	1041.3	1035.5	1029.8	1024.5	1019.8	1014.9	1010.2	1005.4
122.5°	1122.9	1120.5	1114.3	1108.0	1101.8	1095.6	1089.9	1084.9	1079.8	1074.8	1069.8
125°	1215.9	1213.7	1207.6	1201.5	1195.5	1189.4	1184.3	1180.1	1176.0	1171.8	1167.7
127.5°	1300.8	1297.6	1293.0	1288.5	1283.9	1279.4	1274.9	1270.2	1265.7	1261.0	1256.5
130°	1355.0	1351.5	1348.0	1344.5	1341.0	1337.5	1333.2	1328.1	1322.9	1317.9	1312.7
132.5°	1408.6	1405.5	1402.0	1398.5	1395.0	1391.5	1387.6	1383.2	1378.9	1374.5	1370.2
135°	1484.0	1480.8	1477.9	1475.0	1472.2	1469.3	1465.3	1460.2	1455.1	1450.0	1444.9
137.5°	1554.3	1551.2	1547.9	1544.7	1541.4	1538.1	1534.7	1531.2	1527.6	1524.0	1520.5
140°	1600.0	1597.1	1593.7	1590.1	1586.6	1583.1	1580.0	1577.5	1575.0	1572.4	1569.8
142.5°	1642.2	1639.6	1635.6	1631.6	1627.6	1623.6	1620.4	1618.1	1615.8	1613.5	1611.2
145°	1701.3	1699.1	1693.6	1688.3	1682.8	1677.4	1674.9	1675.2	1675.5	1675.8	1676.2
147.5°	1753.0	1751.4	1746.1	1740.7	1735.3	1729.9	1727.9	1729.1	1730.3	1731.5	1732.7
150°	1784.3	1782.4	1777.3	1772.2	1767.1	1762.0	1760.5	1762.8	1765.0	1767.3	1769.5
152.5°	1813.0	1811.1	1806.2	1801.4	1796.5	1791.7	1790.6	1793.0	1795.5	1798.1	1800.5
155°	1851.8	1849.9	1846.1	1842.3	1838.5	1834.6	1834.1	1836.9	1839.9	1842.7	1845.6
157.5°	1884.3	1882.1	1879.4	1876.7	1874.0	1871.4	1871.3	1873.7	1876.1	1878.6	1881.0
160°	1903.5	1901.6	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6
162.5°	1921.1	1918.8	1917.2	1915.5	1913.9	1912.2	1912.4	1914.3	1916.2	1918.1	1920.0
165°	1942.7	1940.4	1939.4	1938.4	1937.5	1936.6	1937.0	1938.9	1940.9	1942.8	1944.7
167.5°	1960.8	1958.5	1957.6	1956.7	1955.8	1954.9	1955.4	1957.3	1959.2	1961.2	1963.1
170°	1969.9	1967.7	1967.0	1966.4	1965.8	1965.1	1965.8	1967.7	1969.6	1971.6	1973.5
172.5°	1976.8	1974.6	1974.0	1973.3	1972.7	1972.1	1972.7	1974.6	1976.5	1978.4	1980.3
175°	1984.3	1982.1	1981.5	1980.7	1980.1	1979.5	1980.3	1982.6	1984.8	1987.0	1989.2
177.5°	1985.6	1983.8	1983.5	1983.3	1983.0	1982.8	1983.5	1985.3	1987.1	1988.9	1990.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2240.2	2242.0	2254.4	2260.0	2271.2	2275.4	2280.5	2279.2	2279.2	2281.7	2299.0
5°	2245.0	2260.5	2283.7	2306.1	2327.8	2346.3	2358.7	2371.2	2375.8	2398.2	2418.3
7.5°	2237.0	2265.4	2303.8	2338.0	2379.0	2411.1	2437.7	2461.6	2478.1	2510.7	2544.2
10°	2226.4	2266.6	2310.0	2354.1	2410.5	2453.2	2496.5	2529.8	2540.6	2589.4	2617.3
12.5°	2205.3	2259.3	2314.3	2371.5	2426.7	2485.4	2533.0	2566.3	2604.3	2648.2	2699.6
15°	2173.8	2235.7	2307.6	2381.2	2460.1	2531.3	2582.4	2640.4	2682.2	2730.2	2775.1
17.5°	2128.5	2208.2	2299.7	2384.8	2476.1	2552.5	2622.8	2678.5	2708.0	2735.3	2742.0
20°	2092.5	2178.5	2286.0	2386.6	2477.9	2566.2	2635.7	2682.2	2690.0	2690.7	2649.7
22.5°	2053.6	2150.6	2263.1	2366.2	2475.5	2573.5	2627.8	2647.6	2616.9	2564.5	2485.1
25°	1981.9	2094.1	2224.8	2342.5	2461.6	2554.6	2573.1	2538.3	2430.7	2317.7	2174.5
27.5°	1904.2	2030.3	2170.5	2301.3	2428.2	2485.8	2445.7	2320.2	2126.5	1958.0	1753.9
30°	1847.2	1988.8	2126.6	2272.8	2390.5	2415.2	2323.2	2138.2	1912.2	1658.4	1454.9
32.5°	1782.2	1930.7	2082.0	2233.2	2331.7	2307.5	2155.4	1927.7	1662.7	1413.2	1220.8
35°	1689.3	1842.6	2005.9	2157.6	2220.2	2115.8	1888.2	1591.9	1321.0	1088.0	955.7
37.5°	1582.1	1749.0	1918.7	2058.0	2053.6	1879.5	1569.5	1263.5	1035.9	898.2	803.9
40°	1505.9	1674.7	1858.1	1975.7	1925.4	1698.6	1362.8	1074.1	907.8	797.9	729.0
42.5°	1432.9	1602.3	1784.4	1877.8	1790.4	1511.7	1177.1	950.9	813.6	727.9	672.1
45°	1308.6	1487.3	1656.1	1707.9	1551.6	1244.4	951.9	787.8	696.5	633.0	594.3
47.5°	1187.1	1362.9	1516.9	1517.8	1306.5	1009.2	802.9	681.8	603.8	554.7	526.5
50°	1112.8	1280.0	1409.2	1389.1	1149.2	897.7	718.1	613.7	548.7	510.8	481.3
52.5°	1029.3	1191.4	1303.3	1246.1	1016.1	789.9	642.0	554.2	500.4	467.4	441.1
55°	907.8	1051.7	1130.6	1043.9	828.8	657.0	542.5	473.6	433.3	405.5	383.0
57.5°	788.4	907.2	956.8	855.9	682.7	544.8	458.9	407.2	367.3	347.3	335.7
60°	713.5	814.9	849.7	738.3	593.6	476.7	406.3	358.3	328.9	315.8	304.2
62.5°	639.9	722.7	737.0	634.9	517.5	417.3	356.8	316.2	296.7	284.2	273.2
65°	530.9	590.5	583.5	501.5	409.4	331.2	287.1	262.4	247.6	229.8	210.5
67.5°	437.1	473.4	451.5	390.0	312.5	257.4	228.6	209.8	191.6	174.7	170.3
70°	377.7	398.5	375.4	318.8	256.1	215.9	192.7	170.3	159.5	155.5	148.6
72.5°	320.7	328.0	302.9	254.5	208.4	178.7	156.1	143.6	137.7	134.5	130.0
75°	240.7	235.3	213.6	175.7	144.7	124.6	117.6	113.0	109.1	106.0	103.7
77.5°	169.1	161.1	141.8	117.0	100.8	91.2	86.9	84.5	82.6	81.1	78.8
80°	126.9	121.5	102.2	83.6	76.6	72.0	69.7	66.6	66.6	65.0	62.7
82.5°	92.9	86.8	70.0	61.3	57.5	54.6	52.9	51.1	50.5	50.8	49.1
85°	48.8	39.5	34.8	33.3	31.0	29.4	30.2	28.7	28.7	28.7	27.9
87.5°	15.9	13.4	13.5	13.6	14.8	15.3	15.2	15.8	16.9	16.6	17.6
90°	4.9	8.5	12.0	15.5	18.5	21.1	23.6	26.2	28.7	30.3	31.9
92.5°	28.7	28.4	28.1	27.8	28.2	29.5	30.8	32.0	33.3	34.1	34.9
95°	82.8	72.3	61.8	51.2	47.1	49.3	51.5	53.8	56.0	57.6	59.2
97.5°	155.6	125.9	96.2	66.6	54.3	59.5	64.6	69.8	74.9	76.2	77.6
100°	210.5	166.7	123.0	79.3	60.2	65.5	71.0	76.4	81.9	84.4	86.9
102.5°	320.8	311.5	302.3	293.1	265.7	220.4	174.9	129.6	84.1	87.5	90.8
105°	446.2	455.8	465.3	474.9	436.2	349.0	261.9	174.7	87.7	91.1	94.6
107.5°	565.8	573.6	581.3	589.1	540.7	436.2	331.6	227.1	122.7	119.1	115.5
110°	643.0	649.6	656.4	663.1	620.3	528.1	435.9	343.6	251.4	219.4	187.5



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	715.7	721.6	727.6	733.6	725.1	702.4	679.5	656.7	634.0	517.6	401.1
115°	831.3	836.7	842.1	847.6	854.2	862.2	870.2	878.2	886.2	738.4	590.7
117.5°	935.6	941.7	947.8	953.8	959.6	965.0	970.6	976.0	981.6	945.8	910.1
120°	1010.2	1014.9	1019.8	1024.5	1029.8	1035.5	1041.3	1047.0	1052.8	1056.6	1060.5
122.5°	1074.8	1079.8	1084.9	1089.9	1095.6	1101.8	1108.0	1114.3	1120.5	1122.9	1125.2
125°	1171.8	1176.0	1180.1	1184.3	1189.4	1195.5	1201.5	1207.6	1213.7	1215.9	1218.1
127.5°	1261.0	1265.7	1270.2	1274.9	1279.4	1283.9	1288.5	1293.0	1297.6	1300.8	1304.0
130°	1317.9	1322.9	1328.1	1333.2	1337.5	1341.0	1344.5	1348.0	1351.5	1355.0	1358.6
132.5°	1374.5	1378.9	1383.2	1387.6	1391.5	1395.0	1398.5	1402.0	1405.5	1408.6	1411.5
135°	1450.0	1455.1	1460.2	1465.3	1469.3	1472.2	1475.0	1477.9	1480.8	1484.0	1487.1
137.5°	1524.0	1527.6	1531.2	1534.7	1538.1	1541.4	1544.7	1547.9	1551.2	1554.3	1557.4
140°	1572.4	1575.0	1577.5	1580.0	1583.1	1586.6	1590.1	1593.7	1597.1	1600.0	1602.9
142.5°	1613.5	1615.8	1618.1	1620.4	1623.6	1627.6	1631.6	1635.6	1639.6	1642.2	1644.9
145°	1675.8	1675.5	1675.2	1674.9	1677.4	1682.8	1688.3	1693.6	1699.1	1701.3	1703.5
147.5°	1731.5	1730.3	1729.1	1727.9	1729.9	1735.3	1740.7	1746.1	1751.4	1753.0	1754.7
150°	1767.3	1765.0	1762.8	1760.5	1762.0	1767.1	1772.2	1777.3	1782.4	1784.3	1786.2
152.5°	1798.1	1795.5	1793.0	1790.6	1791.7	1796.5	1801.4	1806.2	1811.1	1813.0	1814.9
155°	1842.7	1839.9	1836.9	1834.1	1834.6	1838.5	1842.3	1846.1	1849.9	1851.8	1853.7
157.5°	1878.6	1876.1	1873.7	1871.3	1871.4	1874.0	1876.7	1879.4	1882.1	1884.3	1886.4
160°	1899.7	1897.8	1895.9	1894.0	1894.0	1895.9	1897.8	1899.7	1901.6	1903.5	1905.4
162.5°	1918.1	1916.2	1914.3	1912.4	1912.2	1913.9	1915.5	1917.2	1918.8	1921.1	1923.2
165°	1942.8	1940.9	1938.9	1937.0	1936.6	1937.5	1938.4	1939.4	1940.4	1942.7	1944.9
167.5°	1961.2	1959.2	1957.3	1955.4	1954.9	1955.8	1956.7	1957.6	1958.5	1960.8	1963.0
170°	1971.6	1969.6	1967.7	1965.8	1965.1	1965.8	1966.4	1967.0	1967.7	1969.9	1972.2
172.5°	1978.4	1976.5	1974.6	1972.7	1972.1	1972.7	1973.3	1974.0	1974.6	1976.8	1979.0
175°	1987.0	1984.8	1982.6	1980.3	1979.5	1980.1	1980.7	1981.5	1982.1	1984.3	1986.5
177.5°	1988.9	1987.1	1985.3	1983.5	1982.8	1983.0	1983.3	1983.5	1983.8	1985.6	1987.3
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2	2227.2
2.5°	2305.2	2313.2	2316.9	2316.9	2321.3	2319.5	2317.5
5°	2437.7	2452.4	2455.5	2469.4	2479.4	2476.4	2477.9
7.5°	2569.4	2593.0	2616.5	2627.2	2628.8	2635.0	2637.4
10°	2650.5	2669.9	2706.2	2700.8	2727.8	2743.4	2717.8
12.5°	2728.5	2754.6	2779.9	2786.8	2802.2	2807.1	2797.0
15°	2799.0	2813.0	2814.6	2810.7	2815.3	2811.5	2796.7
17.5°	2733.1	2710.6	2664.7	2643.0	2625.9	2600.5	2590.3
20°	2624.1	2557.6	2480.2	2449.3	2412.9	2341.7	2358.7
22.5°	2388.9	2313.1	2235.7	2145.4	2102.1	2034.7	2030.6
25°	2022.9	1892.1	1748.2	1647.6	1588.7	1521.5	1492.0
27.5°	1572.8	1408.2	1290.2	1230.4	1176.1	1122.8	1120.5
30°	1276.9	1153.1	1061.8	1010.7	977.3	954.9	959.6
32.5°	1076.3	991.5	929.9	887.5	862.8	846.0	845.7
35°	879.9	821.8	782.3	764.6	746.8	734.4	735.2
37.5°	753.0	718.1	696.2	676.5	665.4	659.3	655.9
40°	687.9	659.3	642.3	630.7	621.4	612.9	611.4
42.5°	636.6	612.9	595.9	586.7	578.0	572.1	570.5
45°	564.9	545.5	530.1	520.1	516.1	510.8	510.8
47.5°	502.5	483.5	471.4	465.1	458.5	454.8	454.7
50°	460.5	445.8	434.9	431.0	425.7	423.3	422.5
52.5°	422.7	411.7	403.9	401.3	399.0	396.1	396.6
55°	371.4	365.3	362.1	359.8	356.0	351.3	354.5
57.5°	328.3	323.1	314.7	307.4	303.9	300.5	301.8
60°	297.9	287.1	276.3	267.7	265.4	258.4	258.4
62.5°	259.5	244.4	231.1	226.3	224.0	220.8	220.0
65°	199.7	193.5	190.4	187.2	185.7	185.7	184.2
67.5°	165.4	163.0	159.6	158.8	157.2	156.8	156.3
70°	146.2	143.2	141.6	140.9	139.3	140.1	137.7
72.5°	127.6	125.2	124.9	122.9	122.0	122.1	120.4
75°	100.6	100.6	99.9	99.1	97.6	96.7	97.6
77.5°	77.4	77.6	76.1	76.0	75.8	76.0	75.2
80°	61.9	62.7	61.9	61.1	60.4	61.1	60.4
82.5°	48.9	47.9	47.7	47.6	47.4	46.9	46.8
85°	27.9	28.7	27.9	27.1	27.1	27.1	27.9
87.5°	17.3	17.6	17.8	17.9	18.0	18.2	17.7
90°	33.5	35.1	36.3	36.9	37.5	38.2	38.8
92.5°	35.9	36.7	37.3	37.7	38.0	38.4	38.8
95°	60.8	62.4	63.0	62.7	62.4	62.1	61.8
97.5°	78.8	80.1	80.9	81.3	81.7	82.1	82.4
100°	89.6	92.1	93.7	94.3	94.9	95.6	96.2
102.5°	94.1	97.5	99.6	100.5	101.3	102.2	103.1
105°	98.2	101.7	104.0	105.3	106.6	107.9	109.2
107.5°	111.9	108.4	107.2	108.5	109.8	111.1	112.3
110°	155.6	123.7	108.4	109.7	110.9	112.2	113.5



TEST NUMBER: P331861-840

CATALOG NUMBER: S122RDIW-S1005D1440U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	284.7	168.2	110.5	111.6	112.6	113.6	114.6
115°	442.8	295.1	209.6	186.7	163.7	140.8	117.8
117.5°	874.3	838.6	782.9	707.4	631.9	556.3	480.9
120°	1064.3	1068.1	1048.4	1005.4	962.3	919.2	876.2
122.5°	1127.5	1129.7	1126.7	1118.3	1110.0	1101.7	1093.3
125°	1220.3	1222.5	1224.2	1225.2	1226.1	1227.1	1228.0
127.5°	1307.3	1310.5	1312.3	1312.4	1312.6	1312.8	1313.0
130°	1362.1	1365.5	1367.2	1366.9	1366.5	1366.2	1365.8
132.5°	1414.5	1417.5	1418.9	1418.6	1418.3	1418.0	1417.5
135°	1490.4	1493.6	1494.8	1494.2	1493.6	1492.9	1492.3
137.5°	1560.5	1563.7	1564.7	1563.6	1562.6	1561.5	1560.3
140°	1605.8	1608.6	1609.2	1607.7	1606.1	1604.5	1602.9
142.5°	1647.5	1650.1	1650.6	1649.0	1647.4	1645.9	1644.3
145°	1705.8	1708.1	1708.4	1706.8	1705.2	1703.5	1702.0
147.5°	1756.4	1758.1	1758.2	1756.9	1755.5	1754.1	1752.8
150°	1788.2	1790.1	1790.2	1788.7	1787.1	1785.4	1783.8
152.5°	1816.8	1818.8	1818.7	1816.5	1814.5	1812.4	1810.3
155°	1855.6	1857.5	1857.2	1854.7	1852.2	1849.6	1847.0
157.5°	1888.5	1890.8	1890.6	1888.1	1885.6	1883.1	1880.7
160°	1907.3	1909.3	1909.1	1906.9	1904.6	1902.4	1900.2
162.5°	1925.4	1927.5	1927.2	1924.5	1921.8	1919.0	1916.3
165°	1947.1	1949.3	1949.3	1947.1	1944.9	1942.7	1940.4
167.5°	1965.2	1967.4	1967.1	1964.3	1961.4	1958.5	1955.6
170°	1974.4	1976.6	1976.3	1973.5	1970.5	1967.7	1964.8
172.5°	1981.3	1983.5	1983.2	1980.3	1977.4	1974.6	1971.7
175°	1988.7	1990.9	1990.5	1987.3	1984.1	1981.0	1977.7
177.5°	1989.1	1990.9	1990.6	1988.3	1986.1	1983.8	1981.5
180°	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9	1984.9

(END OF REPORT)