

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: P332466

Luminaire Tested: **S123RDIW-S1000D1535U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332466  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S1000D1535U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

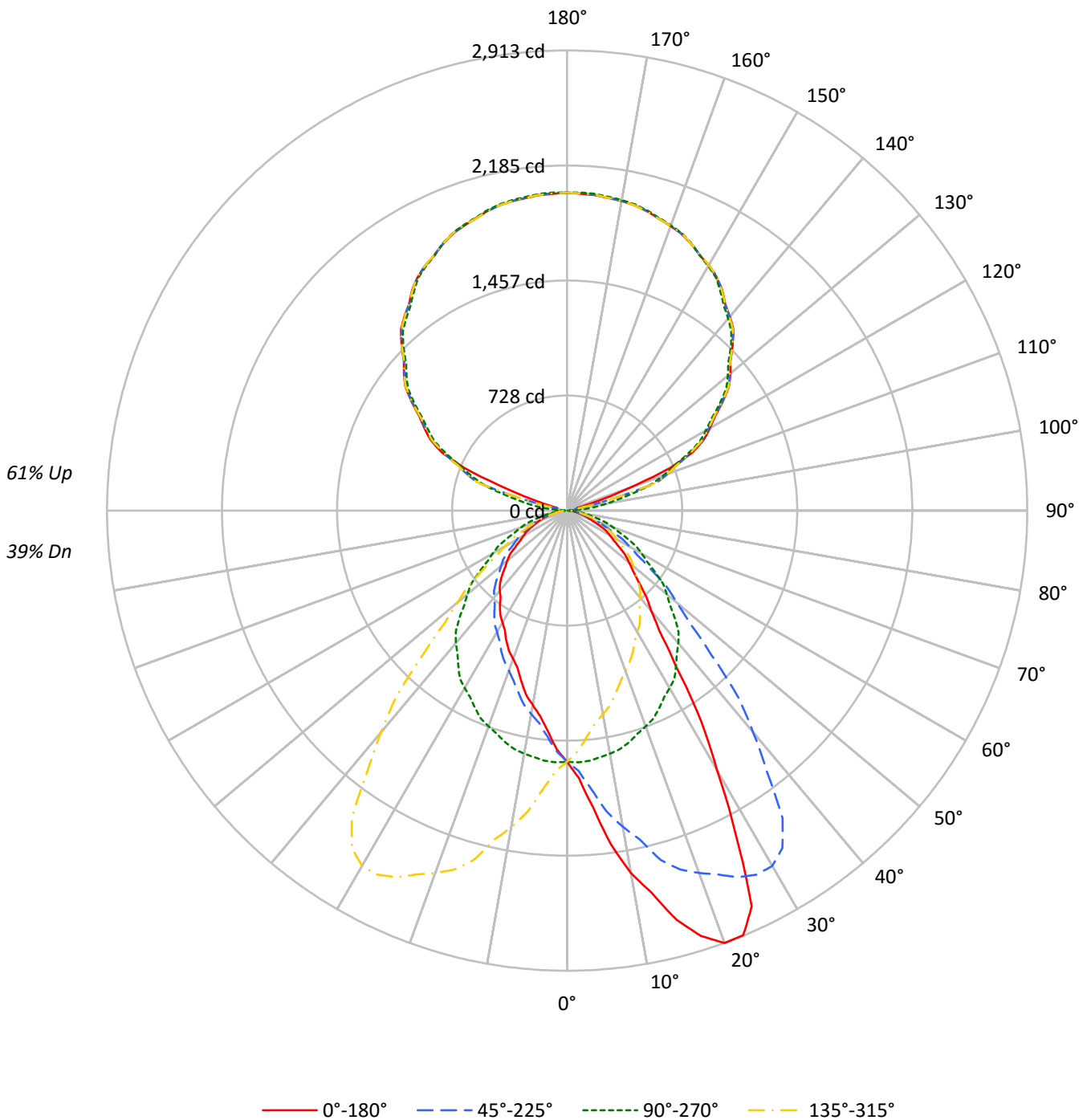
Lumens per Lamp: N/A  
Luminaire Lumens: 10100.2 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 76.6  
Input Voltage (V): 120  
Input Current (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: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-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	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	68	66	64	54	53	52	42	41	40	34
2	88	81	75	70	80	74	69	65	60	57	54	48	46	44	37	36	34	29
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25
4	74	63	56	50	67	58	51	46	48	43	39	39	35	33	30	28	26	22
5	68	57	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20	17
7	58	46	38	33	52	42	36	31	35	30	26	29	25	22	23	20	18	15
8	54	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	19	17	15	13
10	47	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17111	17111	17111	17111
5°	20398	17184	15132	17184
10°	25468	17086	13671	17086
15°	29895	16912	12467	16912
20°	33364	16651	11443	16651
25°	32831	16376	10815	16376
30°	23599	16122	10167	16122
35°	15757	15792	9747	15792
40°	11609	15396	9313	15396
45°	9738	14700	8888	14700
50°	8592	13788	8296	13788
55°	7535	12746	7484	12746
60°	6710	11750	6857	11750
65°	5894	10677	6378	10677
70°	4626	9725	5825	9725
75°	4076	8492	5319	8492
80°	3546	7215	5232	7215
85°	2853	5805	5545	5805



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	1.5
10°-20°	488.4	4.8
20°-30°	767.3	7.6
30°-40°	800.5	7.9
40°-50°	685.1	6.8
50°-60°	522.2	5.2
60°-70°	334.7	3.3
70°-80°	161.0	1.6
80°-90°	48.2	0.5
90°-100°	73.2	0.7
100°-110°	348.7	3.5
110°-120°	837.5	8.3
120°-130°	1066.5	10.6
130°-140°	1139.5	11.3
140°-150°	1065.6	10.6
150°-160°	859.5	8.5
160°-170°	554.7	5.5
170°-180°	191.2	1.9
0°-30°	1412.0	14.0
0°-40°	2212.6	21.9
0°-60°	3419.8	33.9
0°-90°	3963.8	39.2
90°-120°	1259.4	12.5
90°-150°	4531.0	44.9
90°-180°	6136.0	60.8
0°-180°	10100.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1590	1590	1590	1590	1590	
5°	1888	1590	1400	1590	1888	195
15°	2683	1518	1119	1518	2683	761
25°	2764	1379	911	1379	2764	1188
35°	1199	1202	742	1202	1199	786
45°	640	966	584	966	640	503
55°	402	679	399	679	402	363
65°	231	419	250	419	231	228
75°	98	204	128	204	98	105
85°	23	47	45	47	23	28
90°	45	2	45	2	45	21
95°	57	91	57	91	57	48
105°	66	446	66	446	66	150
115°	879	836	879	836	879	812
125°	1202	1178	1202	1178	1202	1073
135°	1482	1467	1482	1467	1482	1142
145°	1709	1692	1709	1692	1709	1067
155°	1861	1864	1861	1864	1861	858
165°	1961	1966	1961	1966	1961	554
175°	2005	2012	2005	2012	2005	191
180°	2012	2012	2012	2012	2012	



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1693.2	1695.3	1688.3	1687.2	1679.0	1676.8	1676.8	1665.4	1658.3	1649.1	1643.6
5°	1887.8	1898.7	1893.2	1881.0	1860.6	1855.8	1842.9	1822.5	1799.3	1770.7	1757.1
7.5°	2130.9	2145.7	2140.0	2121.1	2099.7	2082.4	2046.0	2012.1	1964.6	1922.9	1887.3
10°	2330.1	2314.5	2302.2	2283.9	2264.1	2232.1	2194.0	2141.6	2081.1	2033.4	1980.4
12.5°	2479.3	2476.7	2461.2	2442.3	2414.4	2384.0	2337.2	2273.4	2203.0	2134.2	2073.4
15°	2682.7	2686.7	2676.5	2656.8	2617.3	2563.6	2492.8	2466.3	2365.5	2290.7	2215.8
17.5°	2823.4	2822.6	2821.2	2793.9	2753.6	2715.3	2649.7	2579.9	2488.7	2383.2	2282.4
20°	2912.7	2905.9	2907.2	2876.6	2846.7	2802.4	2738.5	2637.1	2562.2	2440.4	2336.3
22.5°	2910.5	2909.1	2914.3	2903.8	2882.1	2848.2	2797.8	2712.2	2616.6	2493.7	2376.6
25°	2764.3	2758.9	2790.9	2799.7	2834.4	2840.5	2825.6	2778.6	2688.1	2561.5	2416.6
27.5°	2313.5	2310.5	2369.9	2444.2	2538.4	2611.6	2682.4	2716.6	2688.1	2597.5	2452.2
30°	1898.7	1962.7	1992.6	2100.1	2219.9	2362.8	2488.0	2607.1	2636.4	2596.9	2477.8
32.5°	1576.4	1632.2	1657.2	1749.5	1861.1	2028.5	2216.4	2385.0	2504.1	2534.3	2462.6
35°	1199.1	1199.8	1256.9	1297.8	1401.2	1573.4	1755.8	1981.7	2206.3	2376.4	2394.1
37.5°	956.8	960.2	994.8	1035.5	1113.1	1204.1	1364.7	1552.6	1812.0	2073.2	2226.3
40°	826.2	832.3	858.2	898.3	954.1	1022.8	1148.1	1325.0	1541.4	1832.0	2069.5
42.5°	742.3	752.3	765.6	796.5	831.1	895.4	996.7	1133.4	1330.2	1605.0	1879.0
45°	639.7	645.1	655.4	669.6	700.9	745.9	813.9	905.8	1069.1	1290.3	1564.5
47.5°	564.3	561.4	572.2	583.8	604.6	635.2	680.8	755.8	872.3	1049.8	1282.4
50°	513.1	512.4	519.9	528.8	548.5	571.0	608.4	664.9	757.4	904.4	1117.4
52.5°	465.2	467.8	473.1	484.1	498.4	516.5	550.1	590.8	670.3	797.2	974.8
55°	401.5	403.6	411.0	417.2	427.4	445.7	466.8	500.9	555.3	643.8	790.1
57.5°	347.6	346.7	353.9	355.4	366.9	381.9	398.2	424.7	464.1	529.9	628.4
60°	311.7	309.6	315.8	320.5	326.7	338.9	352.5	378.4	409.7	458.0	542.4
62.5°	279.0	278.1	282.6	287.3	292.4	303.5	315.0	334.8	359.6	400.3	467.3
65°	231.4	233.4	235.5	237.5	240.2	247.0	257.9	271.5	288.5	317.1	365.4
67.5°	181.8	183.9	184.6	188.8	194.6	198.9	205.5	217.6	229.5	253.6	281.1
70°	147.0	146.3	147.0	149.0	156.5	164.0	172.9	181.7	189.2	206.2	229.3
72.5°	126.3	125.1	126.9	127.3	130.9	133.0	138.6	146.9	156.5	168.1	184.7
75°	98.0	98.0	98.0	98.0	100.7	102.1	104.1	106.2	109.6	115.0	127.3
77.5°	72.4	72.5	73.5	74.2	74.7	75.5	76.8	78.8	80.0	82.9	88.2
80°	57.2	57.8	57.2	57.8	57.8	59.2	59.9	61.9	62.6	66.0	68.1
82.5°	43.0	42.6	43.0	43.7	43.7	45.1	45.2	46.7	46.8	48.6	50.6
85°	23.1	21.8	23.1	22.5	23.8	22.5	23.1	24.5	24.5	25.2	27.9
87.5°	14.4	15.4	14.1	14.6	14.4	14.8	14.5	14.2	15.1	14.3	13.9
90°	44.8	44.2	43.5	42.9	42.2	41.2	39.9	38.5	37.2	35.9	31.6
92.5°	49.6	49.2	48.8	48.4	48.0	46.8	44.7	42.5	40.4	38.3	35.0
95°	56.8	56.8	56.8	56.8	56.8	55.6	53.3	51.0	48.7	46.3	42.7
97.5°	61.6	61.3	60.9	60.6	60.3	58.8	56.1	53.5	50.8	48.1	42.1
100°	62.8	62.5	62.1	61.8	61.5	60.0	57.3	54.6	52.0	49.3	41.2
102.5°	64.0	63.4	62.8	62.2	61.6	65.4	73.7	81.9	90.1	98.4	155.0
105°	65.8	65.1	64.5	63.8	63.1	92.2	151.0	209.8	268.6	327.4	357.3
107.5°	206.6	250.9	295.2	339.6	383.9	427.6	470.7	513.8	557.0	600.1	595.4
110°	411.1	458.6	506.1	553.6	601.1	630.4	641.3	652.3	663.3	674.2	670.6



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	705.3	715.4	725.4	735.4	745.5	750.4	750.2	750.0	749.8	749.6	745.9
115°	879.1	877.7	876.4	875.1	873.7	871.4	868.1	864.8	861.4	858.1	855.1
117.5°	976.5	976.3	976.0	975.7	975.5	974.0	971.3	968.7	966.0	963.4	961.8
120°	1043.5	1043.5	1043.5	1043.5	1043.5	1042.2	1039.5	1036.9	1034.2	1031.5	1030.5
122.5°	1109.3	1109.0	1108.7	1108.5	1108.2	1107.2	1105.3	1103.4	1101.6	1099.7	1098.4
125°	1202.0	1201.3	1200.6	1200.0	1199.3	1198.6	1198.0	1197.3	1196.7	1196.0	1194.7
127.5°	1291.1	1291.7	1292.4	1293.1	1293.7	1293.5	1292.5	1291.4	1290.3	1289.3	1287.7
130°	1348.5	1349.1	1349.8	1350.5	1351.1	1350.8	1349.5	1348.1	1346.8	1345.5	1344.2
132.5°	1401.1	1402.0	1403.0	1403.9	1404.8	1404.6	1403.3	1402.0	1400.6	1399.3	1398.2
135°	1481.5	1482.5	1483.5	1484.5	1485.5	1485.5	1484.5	1483.5	1482.5	1481.5	1480.2
137.5°	1557.2	1557.8	1558.5	1559.2	1559.8	1559.4	1557.8	1556.2	1554.6	1553.0	1552.3
140°	1602.6	1603.3	1604.0	1604.6	1605.3	1604.9	1603.6	1602.3	1601.0	1599.6	1598.6
142.5°	1644.5	1645.4	1646.3	1647.3	1648.2	1648.1	1647.1	1646.0	1644.9	1643.9	1642.9
145°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.4	1707.8	1707.1	1706.4	1705.8	1705.1
147.5°	1756.6	1758.1	1759.7	1761.2	1762.7	1763.2	1762.5	1761.8	1761.2	1760.5	1759.8
150°	1792.5	1793.5	1794.5	1795.5	1796.5	1796.6	1796.0	1795.3	1794.6	1794.0	1793.3
152.5°	1821.2	1822.7	1824.2	1825.8	1827.3	1827.5	1826.3	1825.1	1823.9	1822.7	1822.3
155°	1861.3	1863.2	1865.2	1867.2	1869.2	1869.4	1867.7	1866.1	1864.4	1862.7	1862.4
157.5°	1895.0	1897.6	1900.2	1902.8	1905.4	1905.7	1903.7	1901.7	1899.7	1897.7	1898.1
160°	1916.6	1918.9	1921.2	1923.5	1925.9	1926.0	1924.0	1922.1	1920.1	1918.1	1918.4
162.5°	1936.9	1939.0	1941.0	1943.1	1945.1	1945.0	1942.8	1940.5	1938.3	1936.0	1936.3
165°	1961.4	1963.7	1966.1	1968.4	1970.7	1970.6	1967.9	1965.2	1962.6	1959.9	1960.3
167.5°	1979.1	1981.7	1984.4	1987.0	1989.7	1989.7	1987.0	1984.4	1981.7	1979.1	1979.1
170°	1989.8	1992.5	1995.1	1997.8	2000.5	2000.5	1997.8	1995.1	1992.5	1989.8	1989.8
172.5°	1995.8	1998.7	2001.7	2004.6	2007.5	2007.6	2005.0	2002.3	1999.7	1997.0	1996.7
175°	2004.8	2007.4	2010.1	2012.7	2015.4	2015.6	2013.2	2010.9	2008.6	2006.3	2005.9
177.5°	2007.5	2010.1	2012.8	2015.4	2018.1	2018.4	2016.2	2014.1	2012.0	2009.9	2009.6
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1641.4	1639.8	1632.2	1623.5	1612.0	1604.4	1598.4	1595.2	1585.4	1573.4	1565.2
5°	1742.8	1722.4	1700.7	1674.1	1649.6	1624.4	1608.8	1590.4	1567.9	1542.8	1525.1
7.5°	1851.5	1811.4	1768.3	1723.8	1679.8	1640.4	1605.5	1575.7	1539.9	1503.8	1478.5
10°	1934.8	1876.2	1815.7	1753.7	1697.2	1644.2	1603.3	1563.2	1520.3	1478.8	1447.5
12.5°	2010.4	1933.4	1863.6	1787.5	1715.2	1651.8	1593.0	1545.8	1494.2	1449.9	1414.3
15°	2106.2	2027.3	1942.9	1827.2	1731.3	1651.0	1579.5	1517.6	1455.0	1400.5	1365.8
17.5°	2195.8	2077.0	1963.6	1867.1	1742.4	1642.1	1554.9	1480.8	1412.1	1354.4	1311.7
20°	2232.8	2117.8	1994.6	1871.5	1749.0	1636.7	1535.3	1453.6	1382.2	1316.8	1277.4
22.5°	2255.1	2124.9	1995.2	1862.8	1732.6	1616.0	1515.7	1425.9	1348.4	1286.3	1237.6
25°	2281.1	2126.0	1983.1	1852.4	1719.7	1593.1	1474.0	1378.8	1295.1	1229.0	1177.3
27.5°	2298.3	2115.8	1946.9	1801.6	1667.0	1541.0	1431.8	1330.8	1245.9	1176.1	1120.6
30°	2301.6	2107.6	1919.1	1761.9	1625.1	1509.4	1393.7	1297.1	1207.3	1133.1	1081.4
32.5°	2305.9	2087.5	1881.5	1714.5	1574.5	1459.9	1355.1	1262.8	1170.8	1097.7	1044.9
35°	2288.0	2076.3	1824.5	1632.6	1492.4	1381.5	1286.9	1201.8	1111.3	1040.5	986.8
37.5°	2210.6	2032.1	1765.4	1540.3	1393.7	1291.0	1213.9	1139.8	1056.7	980.4	929.7
40°	2132.8	1988.5	1719.7	1484.2	1331.1	1225.6	1156.2	1095.7	1015.4	943.9	889.5
42.5°	2016.8	1929.2	1676.2	1425.4	1260.3	1158.7	1100.1	1043.4	972.9	900.3	849.2
45°	1804.1	1815.7	1587.0	1331.8	1162.3	1060.3	1005.1	965.7	903.1	843.2	790.8
47.5°	1537.3	1645.5	1482.3	1232.0	1059.0	963.2	915.0	880.6	838.4	779.6	731.8
50°	1363.1	1517.6	1398.5	1165.1	994.3	899.0	851.3	823.4	786.7	740.4	694.8
52.5°	1202.5	1368.4	1297.2	1090.5	924.0	836.9	790.4	767.4	738.2	694.7	653.4
55°	980.6	1148.7	1132.4	977.9	818.7	740.4	705.0	679.2	659.4	626.8	594.1
57.5°	793.2	952.6	961.0	852.7	725.9	648.5	618.1	598.6	585.7	561.0	530.8
60°	675.1	821.4	850.0	768.3	659.4	591.4	561.4	545.8	535.6	515.8	492.7
62.5°	577.1	701.6	734.0	675.2	595.7	532.0	508.6	493.5	486.6	469.6	449.2
65°	441.7	545.1	576.4	543.7	502.2	451.2	432.1	419.2	413.1	403.6	388.6
67.5°	332.1	407.5	441.8	418.8	403.8	371.6	359.5	352.5	347.1	340.5	328.0
70°	266.8	322.6	358.0	351.8	339.6	322.6	313.7	309.0	303.5	298.1	287.2
72.5°	214.5	252.9	286.1	289.2	279.2	275.8	268.0	266.0	262.7	256.2	250.2
75°	142.2	168.8	191.9	200.8	204.8	208.2	204.8	204.2	203.5	198.0	194.6
77.5°	93.2	107.5	122.1	137.2	143.6	148.2	149.3	151.8	150.0	147.1	145.5
80°	71.5	74.9	85.1	98.0	108.2	112.3	115.0	116.4	115.7	115.0	112.3
82.5°	51.9	54.7	59.5	68.6	77.2	84.0	85.6	85.3	86.8	87.2	85.1
85°	27.9	28.6	29.9	31.3	36.1	43.6	45.6	47.0	48.3	48.3	44.2
87.5°	14.2	12.8	13.0	12.2	13.2	13.1	15.7	17.7	18.9	17.4	18.1
90°	27.2	22.9	18.6	14.8	11.5	8.1	4.8	1.5	4.8	8.1	11.5
92.5°	31.8	28.5	25.2	24.1	25.0	25.9	26.9	27.8	26.9	25.9	25.0
95°	39.0	35.4	31.7	36.7	50.3	64.0	77.6	91.2	77.6	64.0	50.3
97.5°	96.0	119.9	143.8	158.8	164.9	171.1	177.2	183.3	177.2	171.1	164.9
100°	153.0	204.8	256.6	279.2	272.6	265.9	259.3	252.7	259.3	265.9	272.6
102.5°	211.6	268.2	324.8	350.7	345.9	341.2	336.4	331.6	336.4	341.2	345.9
105°	387.2	417.1	447.0	460.1	456.5	452.8	449.2	445.5	449.2	452.8	456.5
107.5°	590.7	585.9	581.2	577.4	574.5	571.5	568.6	565.7	568.6	571.5	574.5
110°	666.9	663.3	659.6	656.5	653.8	651.1	648.5	645.8	648.5	651.1	653.8





TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	742.3	738.6	735.0	731.9	729.6	727.2	724.8	722.4	724.8	727.2	729.6
115°	852.1	849.2	846.2	843.7	841.7	839.7	837.7	835.7	837.7	839.7	841.7
117.5°	960.3	958.8	957.3	955.3	952.8	950.3	947.9	945.4	947.9	950.3	952.8
120°	1029.5	1028.5	1027.6	1025.6	1022.6	1019.6	1016.6	1013.6	1016.6	1019.6	1022.6
122.5°	1097.2	1095.9	1094.7	1092.8	1090.3	1087.9	1085.4	1083.0	1085.4	1087.9	1090.3
125°	1193.3	1192.0	1190.7	1188.7	1186.0	1183.4	1180.7	1178.0	1180.7	1183.4	1186.0
127.5°	1286.1	1284.5	1282.9	1280.8	1278.1	1275.5	1272.8	1270.1	1272.8	1275.5	1278.1
130°	1342.8	1341.5	1340.2	1338.2	1335.5	1332.9	1330.2	1327.5	1330.2	1332.9	1335.5
132.5°	1397.2	1396.1	1395.1	1393.2	1390.5	1387.9	1385.2	1382.6	1385.2	1387.9	1390.5
135°	1478.9	1477.5	1476.2	1474.6	1472.6	1470.6	1468.6	1466.6	1468.6	1470.6	1472.6
137.5°	1551.5	1550.8	1550.1	1548.4	1545.9	1543.4	1540.9	1538.3	1540.9	1543.4	1545.9
140°	1597.6	1596.6	1595.6	1594.2	1592.2	1590.2	1588.2	1586.2	1588.2	1590.2	1592.2
142.5°	1641.9	1640.9	1639.9	1638.4	1636.4	1634.4	1632.4	1630.4	1632.4	1634.4	1636.4
145°	1704.4	1703.8	1703.1	1701.6	1699.3	1697.0	1694.6	1692.3	1694.6	1697.0	1699.3
147.5°	1759.2	1758.5	1757.8	1756.7	1755.2	1753.7	1752.2	1750.6	1752.2	1753.7	1755.2
150°	1792.7	1792.0	1791.3	1790.5	1789.5	1788.5	1787.5	1786.5	1787.5	1788.5	1789.5
152.5°	1821.9	1821.5	1821.1	1820.7	1820.2	1819.7	1819.3	1818.8	1819.3	1819.7	1820.2
155°	1862.1	1861.8	1861.4	1861.6	1862.3	1862.9	1863.6	1864.2	1863.6	1862.9	1862.3
157.5°	1898.4	1898.7	1899.1	1899.3	1899.3	1899.4	1899.5	1899.5	1899.5	1899.4	1899.3
160°	1918.7	1919.1	1919.4	1919.7	1920.1	1920.4	1920.7	1921.1	1920.7	1920.4	1920.1
162.5°	1936.7	1937.0	1937.3	1937.9	1938.8	1939.7	1940.5	1941.4	1940.5	1939.7	1938.8
165°	1960.6	1960.9	1961.3	1961.9	1962.9	1963.9	1964.9	1965.9	1964.9	1963.9	1962.9
167.5°	1979.1	1979.1	1979.1	1979.7	1981.1	1982.4	1983.7	1985.0	1983.7	1982.4	1981.1
170°	1989.8	1989.8	1989.8	1990.5	1991.8	1993.1	1994.5	1995.8	1994.5	1993.1	1991.8
172.5°	1996.5	1996.2	1995.9	1996.6	1998.2	1999.8	2001.4	2003.0	2001.4	1999.8	1998.2
175°	2005.6	2005.3	2004.9	2005.6	2007.3	2008.9	2010.6	2012.2	2010.6	2008.9	2007.3
177.5°	2009.3	2009.1	2008.8	2009.3	2010.7	2012.0	2013.3	2014.6	2013.3	2012.0	2010.7
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1562.5	1555.4	1550.5	1539.6	1532.6	1524.9	1517.3	1522.2	1521.7	1521.1	1521.1
5°	1510.1	1494.4	1480.2	1461.8	1450.2	1435.9	1425.0	1423.7	1426.4	1416.9	1411.4
7.5°	1458.1	1436.7	1416.5	1396.2	1374.7	1357.5	1346.8	1341.7	1334.8	1328.9	1322.8
10°	1421.6	1396.5	1376.7	1351.5	1328.4	1308.0	1295.1	1286.2	1281.4	1276.7	1267.8
12.5°	1384.1	1359.4	1334.3	1305.8	1283.8	1260.1	1250.4	1240.5	1231.4	1226.0	1213.9
15°	1329.1	1297.1	1270.6	1240.6	1216.1	1193.0	1179.4	1159.6	1156.9	1150.1	1137.9
17.5°	1274.0	1239.2	1202.6	1180.5	1152.8	1128.7	1108.0	1101.4	1081.9	1074.6	1063.9
20°	1230.4	1198.4	1170.5	1141.3	1101.1	1078.6	1062.3	1053.5	1037.8	1028.3	1021.5
22.5°	1192.8	1160.3	1128.1	1093.9	1060.8	1035.6	1023.7	1009.9	1001.3	988.0	980.6
25°	1139.2	1103.8	1065.0	1028.3	1004.5	985.4	966.4	954.1	941.9	935.7	922.1
27.5°	1076.9	1039.9	1003.6	975.7	946.5	927.7	910.4	899.5	884.8	874.5	867.0
30°	1042.6	999.0	967.7	942.5	905.1	887.4	874.5	860.9	850.0	839.1	831.6
32.5°	1002.8	963.1	933.4	902.3	873.5	854.2	837.5	825.5	816.2	805.9	798.4
35°	940.5	907.2	876.5	845.2	824.1	804.4	784.7	774.4	765.6	756.1	749.3
37.5°	884.1	853.0	823.9	794.2	768.0	752.0	736.1	728.3	716.3	709.9	703.0
40°	849.3	818.7	787.4	758.8	731.6	719.3	705.0	693.5	682.6	677.8	670.3
42.5°	811.2	780.6	754.2	723.4	701.1	684.5	671.3	658.6	650.5	643.5	639.3
45°	754.7	727.5	701.6	671.0	649.9	635.6	620.6	609.1	601.6	596.8	589.3
47.5°	699.9	672.6	646.4	619.7	599.3	582.9	568.0	559.9	550.0	544.2	539.1
50°	660.1	635.6	607.7	583.2	562.8	546.5	534.2	524.0	515.2	507.7	504.3
52.5°	623.6	597.5	573.4	550.6	529.0	510.5	499.4	488.6	482.0	473.4	469.4
55°	563.5	538.3	517.9	495.4	474.3	458.7	445.1	435.5	428.7	419.2	413.8
57.5°	507.0	484.4	460.0	440.6	418.8	405.6	394.3	381.4	373.1	365.6	360.3
60°	468.9	443.0	421.9	403.6	384.5	367.5	357.3	347.1	338.2	330.7	326.0
62.5°	429.1	406.6	386.5	366.5	349.1	334.3	322.4	313.9	306.1	301.3	296.6
65°	368.2	350.5	330.1	313.7	297.4	286.5	277.0	269.5	264.0	260.6	256.6
67.5°	312.1	294.9	277.1	261.1	250.2	241.9	235.6	229.2	226.5	222.1	219.4
70°	275.6	257.9	242.3	230.0	219.1	213.0	208.9	204.2	201.4	196.0	193.3
72.5°	235.9	223.1	211.8	201.7	193.0	187.4	182.2	176.4	172.0	166.0	163.3
75°	185.8	174.2	165.4	158.6	153.1	145.6	138.1	132.0	130.0	127.9	127.3
77.5°	137.6	130.3	123.9	118.1	111.3	105.9	104.3	102.9	102.5	101.4	101.4
80°	108.2	101.4	96.6	89.8	85.7	85.7	85.7	84.4	85.1	85.1	85.1
82.5°	80.4	74.2	71.6	69.1	68.3	68.9	68.9	69.1	68.7	69.8	69.3
85°	41.5	42.2	43.6	42.9	43.6	43.6	44.9	44.2	44.9	43.6	44.9
87.5°	18.2	20.6	22.0	23.4	24.8	25.1	26.0	26.2	27.0	27.3	27.5
90°	14.8	18.6	22.9	27.2	31.6	35.9	37.2	38.5	39.9	41.2	42.2
92.5°	24.1	25.2	28.5	31.8	35.0	38.3	40.4	42.5	44.7	46.8	48.0
95°	36.7	31.7	35.4	39.0	42.7	46.3	48.7	51.0	53.3	55.6	56.8
97.5°	158.8	143.8	119.9	96.0	72.1	48.1	50.8	53.5	56.1	58.8	60.3
100°	279.2	256.6	204.8	153.0	101.2	49.3	52.0	54.6	57.3	60.0	61.5
102.5°	350.7	324.8	268.2	211.6	155.0	98.4	90.1	81.9	73.7	65.4	61.6
105°	460.1	447.0	417.1	387.2	357.3	327.4	268.6	209.8	151.0	92.2	63.1
107.5°	577.4	581.2	585.9	590.7	595.4	600.1	557.0	513.8	470.7	427.6	383.9
110°	656.5	659.6	663.3	666.9	670.6	674.2	663.3	652.3	641.3	630.4	601.1



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	731.9	735.0	738.6	742.3	745.9	749.6	749.8	750.0	750.2	750.4	745.5
115°	843.7	846.2	849.2	852.1	855.1	858.1	861.4	864.8	868.1	871.4	873.7
117.5°	955.3	957.3	958.8	960.3	961.8	963.4	966.0	968.7	971.3	974.0	975.5
120°	1025.6	1027.6	1028.5	1029.5	1030.5	1031.5	1034.2	1036.9	1039.5	1042.2	1043.5
122.5°	1092.8	1094.7	1095.9	1097.2	1098.4	1099.7	1101.6	1103.4	1105.3	1107.2	1108.2
125°	1188.7	1190.7	1192.0	1193.3	1194.7	1196.0	1196.7	1197.3	1198.0	1198.6	1199.3
127.5°	1280.8	1282.9	1284.5	1286.1	1287.7	1289.3	1290.3	1291.4	1292.5	1293.5	1293.7
130°	1338.2	1340.2	1341.5	1342.8	1344.2	1345.5	1346.8	1348.1	1349.5	1350.8	1351.1
132.5°	1393.2	1395.1	1396.1	1397.2	1398.2	1399.3	1400.6	1402.0	1403.3	1404.6	1404.8
135°	1474.6	1476.2	1477.5	1478.9	1480.2	1481.5	1482.5	1483.5	1484.5	1485.5	1485.5
137.5°	1548.4	1550.1	1550.8	1551.5	1552.3	1553.0	1554.6	1556.2	1557.8	1559.4	1559.8
140°	1594.2	1595.6	1596.6	1597.6	1598.6	1599.6	1601.0	1602.3	1603.6	1604.9	1605.3
142.5°	1638.4	1639.9	1640.9	1641.9	1642.9	1643.9	1644.9	1646.0	1647.1	1648.1	1648.2
145°	1701.6	1703.1	1703.8	1704.4	1705.1	1705.8	1706.4	1707.1	1707.8	1708.4	1708.8
147.5°	1756.7	1757.8	1758.5	1759.2	1759.8	1760.5	1761.2	1761.8	1762.5	1763.2	1762.7
150°	1790.5	1791.3	1792.0	1792.7	1793.3	1794.0	1794.6	1795.3	1796.0	1796.6	1796.5
152.5°	1820.7	1821.1	1821.5	1821.9	1822.3	1822.7	1823.9	1825.1	1826.3	1827.5	1827.3
155°	1861.6	1861.4	1861.8	1862.1	1862.4	1862.7	1864.4	1866.1	1867.7	1869.4	1869.2
157.5°	1899.3	1899.1	1898.7	1898.4	1898.1	1897.7	1899.7	1901.7	1903.7	1905.7	1905.4
160°	1919.7	1919.4	1919.1	1918.7	1918.4	1918.1	1920.1	1922.1	1924.0	1926.0	1925.9
162.5°	1937.9	1937.3	1937.0	1936.7	1936.3	1936.0	1938.3	1940.5	1942.8	1945.0	1945.1
165°	1961.9	1961.3	1960.9	1960.6	1960.3	1959.9	1962.6	1965.2	1967.9	1970.6	1970.7
167.5°	1979.7	1979.1	1979.1	1979.1	1979.1	1979.1	1981.7	1984.4	1987.0	1989.7	1989.7
170°	1990.5	1989.8	1989.8	1989.8	1989.8	1989.8	1992.5	1995.1	1997.8	2000.5	2000.5
172.5°	1996.6	1995.9	1996.2	1996.5	1996.7	1997.0	1999.7	2002.3	2005.0	2007.6	2007.5
175°	2005.6	2004.9	2005.3	2005.6	2005.9	2006.3	2008.6	2010.9	2013.2	2015.6	2015.4
177.5°	2009.3	2008.8	2009.1	2009.3	2009.6	2009.9	2012.0	2014.1	2016.2	2018.4	2018.1
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1514.6	1514.0	1514.6	1512.4	1514.6	1514.0	1514.6	1521.1	1521.1	1521.7	1522.2
5°	1409.4	1408.7	1406.7	1400.5	1406.7	1408.7	1409.4	1411.4	1416.9	1426.4	1423.7
7.5°	1317.5	1316.6	1310.6	1310.7	1310.6	1316.6	1317.5	1322.8	1328.9	1334.8	1341.7
10°	1263.1	1263.7	1255.6	1250.8	1255.6	1263.7	1263.1	1267.8	1276.7	1281.4	1286.2
12.5°	1210.3	1207.1	1200.6	1195.3	1200.6	1207.1	1210.3	1213.9	1226.0	1231.4	1240.5
15°	1140.6	1133.8	1117.4	1118.8	1117.4	1133.8	1140.6	1137.9	1150.1	1156.9	1159.6
17.5°	1058.5	1053.5	1053.2	1043.7	1053.2	1053.5	1058.5	1063.9	1074.6	1081.9	1101.4
20°	1010.6	1007.2	1008.5	999.0	1008.5	1007.2	1010.6	1021.5	1028.3	1037.8	1053.5
22.5°	973.0	969.6	963.9	960.9	963.9	969.6	973.0	980.6	988.0	1001.3	1009.9
25°	918.0	912.6	907.2	910.6	907.2	912.6	918.0	922.1	935.7	941.9	954.1
27.5°	863.1	859.0	853.5	852.8	853.5	859.0	863.1	867.0	874.5	884.8	899.5
30°	828.2	824.1	821.4	818.0	821.4	824.1	828.2	831.6	839.1	850.0	860.9
32.5°	792.8	792.0	787.1	786.4	787.1	792.0	792.8	798.4	805.9	816.2	825.5
35°	746.5	742.5	741.1	741.8	741.1	742.5	746.5	749.3	756.1	765.6	774.4
37.5°	702.6	697.1	694.7	692.2	694.7	697.1	702.6	703.0	709.9	716.3	728.3
40°	671.0	665.6	664.2	662.8	664.2	665.6	671.0	670.3	677.8	682.6	693.5
42.5°	635.6	633.4	632.6	630.2	632.6	633.4	635.6	639.3	643.5	650.5	658.6
45°	587.3	586.6	582.5	583.9	582.5	586.6	587.3	589.3	596.8	601.6	609.1
47.5°	536.4	533.4	530.5	532.4	530.5	533.4	536.4	539.1	544.2	550.0	559.9
50°	501.6	500.2	494.1	495.4	494.1	500.2	501.6	504.3	507.7	515.2	524.0
52.5°	466.7	461.5	459.2	458.4	459.2	461.5	466.7	469.4	473.4	482.0	488.6
55°	409.0	402.9	400.2	398.8	400.2	402.9	409.0	413.8	419.2	428.7	435.5
57.5°	352.4	350.7	348.6	350.1	348.6	350.7	352.4	360.3	365.6	373.1	381.4
60°	319.2	319.2	319.2	318.5	319.2	319.2	319.2	326.0	330.7	338.2	347.1
62.5°	293.6	291.9	291.4	292.4	291.4	291.9	293.6	296.6	301.3	306.1	313.9
65°	254.5	253.8	251.1	250.4	251.1	253.8	254.5	256.6	260.6	264.0	269.5
67.5°	217.6	215.2	214.4	213.4	214.4	215.2	217.6	219.4	222.1	226.5	229.2
70°	189.9	188.5	184.4	185.1	184.4	188.5	189.9	193.3	196.0	201.4	204.2
72.5°	159.9	158.6	157.7	156.8	157.7	158.6	159.9	163.3	166.0	172.0	176.4
75°	126.6	125.9	125.2	127.9	125.2	125.9	126.6	127.3	127.9	130.0	132.0
77.5°	101.4	101.4	101.8	100.7	101.8	101.4	101.4	101.4	101.4	102.5	102.9
80°	85.1	85.1	84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.1	84.4
82.5°	68.2	68.7	69.1	68.1	69.1	68.7	68.2	69.3	69.8	68.7	69.1
85°	44.9	44.2	45.6	44.9	45.6	44.2	44.9	44.9	43.6	44.9	44.2
87.5°	28.7	27.8	27.9	28.6	27.9	27.8	28.7	27.5	27.3	27.0	26.2
90°	42.9	43.5	44.2	44.8	44.2	43.5	42.9	42.2	41.2	39.9	38.5
92.5°	48.4	48.8	49.2	49.6	49.2	48.8	48.4	48.0	46.8	44.7	42.5
95°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	55.6	53.3	51.0
97.5°	60.6	60.9	61.3	61.6	61.3	60.9	60.6	60.3	58.8	56.1	53.5
100°	61.8	62.1	62.5	62.8	62.5	62.1	61.8	61.5	60.0	57.3	54.6
102.5°	62.2	62.8	63.4	64.0	63.4	62.8	62.2	61.6	65.4	73.7	81.9
105°	63.8	64.5	65.1	65.8	65.1	64.5	63.8	63.1	92.2	151.0	209.8
107.5°	339.6	295.2	250.9	206.6	250.9	295.2	339.6	383.9	427.6	470.7	513.8
110°	553.6	506.1	458.6	411.1	458.6	506.1	553.6	601.1	630.4	641.3	652.3



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	735.4	725.4	715.4	705.3	715.4	725.4	735.4	745.5	750.4	750.2	750.0
115°	875.1	876.4	877.7	879.1	877.7	876.4	875.1	873.7	871.4	868.1	864.8
117.5°	975.7	976.0	976.3	976.5	976.3	976.0	975.7	975.5	974.0	971.3	968.7
120°	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1042.2	1039.5	1036.9
122.5°	1108.5	1108.7	1109.0	1109.3	1109.0	1108.7	1108.5	1108.2	1107.2	1105.3	1103.4
125°	1200.0	1200.6	1201.3	1202.0	1201.3	1200.6	1200.0	1199.3	1198.6	1198.0	1197.3
127.5°	1293.1	1292.4	1291.7	1291.1	1291.7	1292.4	1293.1	1293.7	1293.5	1292.5	1291.4
130°	1350.5	1349.8	1349.1	1348.5	1349.1	1349.8	1350.5	1351.1	1350.8	1349.5	1348.1
132.5°	1403.9	1403.0	1402.0	1401.1	1402.0	1403.0	1403.9	1404.8	1404.6	1403.3	1402.0
135°	1484.5	1483.5	1482.5	1481.5	1482.5	1483.5	1484.5	1485.5	1485.5	1484.5	1483.5
137.5°	1559.2	1558.5	1557.8	1557.2	1557.8	1558.5	1559.2	1559.8	1559.4	1557.8	1556.2
140°	1604.6	1604.0	1603.3	1602.6	1603.3	1604.0	1604.6	1605.3	1604.9	1603.6	1602.3
142.5°	1647.3	1646.3	1645.4	1644.5	1645.4	1646.3	1647.3	1648.2	1648.1	1647.1	1646.0
145°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.4	1707.8	1707.1
147.5°	1761.2	1759.7	1758.1	1756.6	1758.1	1759.7	1761.2	1762.7	1763.2	1762.5	1761.8
150°	1795.5	1794.5	1793.5	1792.5	1793.5	1794.5	1795.5	1796.5	1796.6	1796.0	1795.3
152.5°	1825.8	1824.2	1822.7	1821.2	1822.7	1824.2	1825.8	1827.3	1827.5	1826.3	1825.1
155°	1867.2	1865.2	1863.2	1861.3	1863.2	1865.2	1867.2	1869.2	1869.4	1867.7	1866.1
157.5°	1902.8	1900.2	1897.6	1895.0	1897.6	1900.2	1902.8	1905.4	1905.7	1903.7	1901.7
160°	1923.5	1921.2	1918.9	1916.6	1918.9	1921.2	1923.5	1925.9	1926.0	1924.0	1922.1
162.5°	1943.1	1941.0	1939.0	1936.9	1939.0	1941.0	1943.1	1945.1	1945.0	1942.8	1940.5
165°	1968.4	1966.1	1963.7	1961.4	1963.7	1966.1	1968.4	1970.7	1970.6	1967.9	1965.2
167.5°	1987.0	1984.4	1981.7	1979.1	1981.7	1984.4	1987.0	1989.7	1989.7	1987.0	1984.4
170°	1997.8	1995.1	1992.5	1989.8	1992.5	1995.1	1997.8	2000.5	2000.5	1997.8	1995.1
172.5°	2004.6	2001.7	1998.7	1995.8	1998.7	2001.7	2004.6	2007.5	2007.6	2005.0	2002.3
175°	2012.7	2010.1	2007.4	2004.8	2007.4	2010.1	2012.7	2015.4	2015.6	2013.2	2010.9
177.5°	2015.4	2012.8	2010.1	2007.5	2010.1	2012.8	2015.4	2018.1	2018.4	2016.2	2014.1
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1517.3	1524.9	1532.6	1539.6	1550.5	1555.4	1562.5	1565.2	1573.4	1585.4	1595.2
5°	1425.0	1435.9	1450.2	1461.8	1480.2	1494.4	1510.1	1525.1	1542.8	1567.9	1590.4
7.5°	1346.8	1357.5	1374.7	1396.2	1416.5	1436.7	1458.1	1478.5	1503.8	1539.9	1575.7
10°	1295.1	1308.0	1328.4	1351.5	1376.7	1396.5	1421.6	1447.5	1478.8	1520.3	1563.2
12.5°	1250.4	1260.1	1283.8	1305.8	1334.3	1359.4	1384.1	1414.3	1449.9	1494.2	1545.8
15°	1179.4	1193.0	1216.1	1240.6	1270.6	1297.1	1329.1	1365.8	1400.5	1455.0	1517.6
17.5°	1108.0	1128.7	1152.8	1180.5	1202.6	1239.2	1274.0	1311.7	1354.4	1412.1	1480.8
20°	1062.3	1078.6	1101.1	1141.3	1170.5	1198.4	1230.4	1277.4	1316.8	1382.2	1453.6
22.5°	1023.7	1035.6	1060.8	1093.9	1128.1	1160.3	1192.8	1237.6	1286.3	1348.4	1425.9
25°	966.4	985.4	1004.5	1028.3	1065.0	1103.8	1139.2	1177.3	1229.0	1295.1	1378.8
27.5°	910.4	927.7	946.5	975.7	1003.6	1039.9	1076.9	1120.6	1176.1	1245.9	1330.8
30°	874.5	887.4	905.1	942.5	967.7	999.0	1042.6	1081.4	1133.1	1207.3	1297.1
32.5°	837.5	854.2	873.5	902.3	933.4	963.1	1002.8	1044.9	1097.7	1170.8	1262.8
35°	784.7	804.4	824.1	845.2	876.5	907.2	940.5	986.8	1040.5	1111.3	1201.8
37.5°	736.1	752.0	768.0	794.2	823.9	853.0	884.1	929.7	980.4	1056.7	1139.8
40°	705.0	719.3	731.6	758.8	787.4	818.7	849.3	889.5	943.9	1015.4	1095.7
42.5°	671.3	684.5	701.1	723.4	754.2	780.6	811.2	849.2	900.3	972.9	1043.4
45°	620.6	635.6	649.9	671.0	701.6	727.5	754.7	790.8	843.2	903.1	965.7
47.5°	568.0	582.9	599.3	619.7	646.4	672.6	699.9	731.8	779.6	838.4	880.6
50°	534.2	546.5	562.8	583.2	607.7	635.6	660.1	694.8	740.4	786.7	823.4
52.5°	499.4	510.5	529.0	550.6	573.4	597.5	623.6	653.4	694.7	738.2	767.4
55°	445.1	458.7	474.3	495.4	517.9	538.3	563.5	594.1	626.8	659.4	679.2
57.5°	394.3	405.6	418.8	440.6	460.0	484.4	507.0	530.8	561.0	585.7	598.6
60°	357.3	367.5	384.5	403.6	421.9	443.0	468.9	492.7	515.8	535.6	545.8
62.5°	322.4	334.3	349.1	366.5	386.5	406.6	429.1	449.2	469.6	486.6	493.5
65°	277.0	286.5	297.4	313.7	330.1	350.5	368.2	388.6	403.6	413.1	419.2
67.5°	235.6	241.9	250.2	261.1	277.1	294.9	312.1	328.0	340.5	347.1	352.5
70°	208.9	213.0	219.1	230.0	242.3	257.9	275.6	287.2	298.1	303.5	309.0
72.5°	182.2	187.4	193.0	201.7	211.8	223.1	235.9	250.2	256.2	262.7	266.0
75°	138.1	145.6	153.1	158.6	165.4	174.2	185.8	194.6	198.0	203.5	204.2
77.5°	104.3	105.9	111.3	118.1	123.9	130.3	137.6	145.5	147.1	150.0	151.8
80°	85.7	85.7	85.7	89.8	96.6	101.4	108.2	112.3	115.0	115.7	116.4
82.5°	68.9	68.9	68.3	69.1	71.6	74.2	80.4	85.1	87.2	86.8	85.3
85°	44.9	43.6	43.6	42.9	43.6	42.2	41.5	44.2	48.3	48.3	47.0
87.5°	26.0	25.1	24.8	23.4	22.0	20.6	18.2	18.1	17.4	18.9	17.7
90°	37.2	35.9	31.6	27.2	22.9	18.6	14.8	11.5	8.1	4.8	1.5
92.5°	40.4	38.3	35.0	31.8	28.5	25.2	24.1	25.0	25.9	26.9	27.8
95°	48.7	46.3	42.7	39.0	35.4	31.7	36.7	50.3	64.0	77.6	91.2
97.5°	50.8	48.1	72.1	96.0	119.9	143.8	158.8	164.9	171.1	177.2	183.3
100°	52.0	49.3	101.2	153.0	204.8	256.6	279.2	272.6	265.9	259.3	252.7
102.5°	90.1	98.4	155.0	211.6	268.2	324.8	350.7	345.9	341.2	336.4	331.6
105°	268.6	327.4	357.3	387.2	417.1	447.0	460.1	456.5	452.8	449.2	445.5
107.5°	557.0	600.1	595.4	590.7	585.9	581.2	577.4	574.5	571.5	568.6	565.7
110°	663.3	674.2	670.6	666.9	663.3	659.6	656.5	653.8	651.1	648.5	645.8



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	749.8	749.6	745.9	742.3	738.6	735.0	731.9	729.6	727.2	724.8	722.4
115°	861.4	858.1	855.1	852.1	849.2	846.2	843.7	841.7	839.7	837.7	835.7
117.5°	966.0	963.4	961.8	960.3	958.8	957.3	955.3	952.8	950.3	947.9	945.4
120°	1034.2	1031.5	1030.5	1029.5	1028.5	1027.6	1025.6	1022.6	1019.6	1016.6	1013.6
122.5°	1101.6	1099.7	1098.4	1097.2	1095.9	1094.7	1092.8	1090.3	1087.9	1085.4	1083.0
125°	1196.7	1196.0	1194.7	1193.3	1192.0	1190.7	1188.7	1186.0	1183.4	1180.7	1178.0
127.5°	1290.3	1289.3	1287.7	1286.1	1284.5	1282.9	1280.8	1278.1	1275.5	1272.8	1270.1
130°	1346.8	1345.5	1344.2	1342.8	1341.5	1340.2	1338.2	1335.5	1332.9	1330.2	1327.5
132.5°	1400.6	1399.3	1398.2	1397.2	1396.1	1395.1	1393.2	1390.5	1387.9	1385.2	1382.6
135°	1482.5	1481.5	1480.2	1478.9	1477.5	1476.2	1474.6	1472.6	1470.6	1468.6	1466.6
137.5°	1554.6	1553.0	1552.3	1551.5	1550.8	1550.1	1548.4	1545.9	1543.4	1540.9	1538.3
140°	1601.0	1599.6	1598.6	1597.6	1596.6	1595.6	1594.2	1592.2	1590.2	1588.2	1586.2
142.5°	1644.9	1643.9	1642.9	1641.9	1640.9	1639.9	1638.4	1636.4	1634.4	1632.4	1630.4
145°	1706.4	1705.8	1705.1	1704.4	1703.8	1703.1	1701.6	1699.3	1697.0	1694.6	1692.3
147.5°	1761.2	1760.5	1759.8	1759.2	1758.5	1757.8	1756.7	1755.2	1753.7	1752.2	1750.6
150°	1794.6	1794.0	1793.3	1792.7	1792.0	1791.3	1790.5	1789.5	1788.5	1787.5	1786.5
152.5°	1823.9	1822.7	1822.3	1821.9	1821.5	1821.1	1820.7	1820.2	1819.7	1819.3	1818.8
155°	1864.4	1862.7	1862.4	1862.1	1861.8	1861.4	1861.6	1862.3	1862.9	1863.6	1864.2
157.5°	1899.7	1897.7	1898.1	1898.4	1898.7	1899.1	1899.3	1899.3	1899.4	1899.5	1899.5
160°	1920.1	1918.1	1918.4	1918.7	1919.1	1919.4	1919.7	1920.1	1920.4	1920.7	1921.1
162.5°	1938.3	1936.0	1936.3	1936.7	1937.0	1937.3	1937.9	1938.8	1939.7	1940.5	1941.4
165°	1962.6	1959.9	1960.3	1960.6	1960.9	1961.3	1961.9	1962.9	1963.9	1964.9	1965.9
167.5°	1981.7	1979.1	1979.1	1979.1	1979.1	1979.1	1979.7	1981.1	1982.4	1983.7	1985.0
170°	1992.5	1989.8	1989.8	1989.8	1989.8	1989.8	1990.5	1991.8	1993.1	1994.5	1995.8
172.5°	1999.7	1997.0	1996.7	1996.5	1996.2	1995.9	1996.6	1998.2	1999.8	2001.4	2003.0
175°	2008.6	2006.3	2005.9	2005.6	2005.3	2004.9	2005.6	2007.3	2008.9	2010.6	2012.2
177.5°	2012.0	2009.9	2009.6	2009.3	2009.1	2008.8	2009.3	2010.7	2012.0	2013.3	2014.6
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1598.4	1604.4	1612.0	1623.5	1632.2	1639.8	1641.4	1643.6	1649.1	1658.3	1665.4
5°	1608.8	1624.4	1649.6	1674.1	1700.7	1722.4	1742.8	1757.1	1770.7	1799.3	1822.5
7.5°	1605.5	1640.4	1679.8	1723.8	1768.3	1811.4	1851.5	1887.3	1922.9	1964.6	2012.1
10°	1603.3	1644.2	1697.2	1753.7	1815.7	1876.2	1934.8	1980.4	2033.4	2081.1	2141.6
12.5°	1593.0	1651.8	1715.2	1787.5	1863.6	1933.4	2010.4	2073.4	2134.2	2203.0	2273.4
15°	1579.5	1651.0	1731.3	1827.2	1942.9	2027.3	2106.2	2215.8	2290.7	2365.5	2466.3
17.5°	1554.9	1642.1	1742.4	1867.1	1963.6	2077.0	2195.8	2282.4	2383.2	2488.7	2579.9
20°	1535.3	1636.7	1749.0	1871.5	1994.6	2117.8	2232.8	2336.3	2440.4	2562.2	2637.1
22.5°	1515.7	1616.0	1732.6	1862.8	1995.2	2124.9	2255.1	2376.6	2493.7	2616.6	2712.2
25°	1474.0	1593.1	1719.7	1852.4	1983.1	2126.0	2281.1	2416.6	2561.5	2688.1	2778.6
27.5°	1431.8	1541.0	1667.0	1801.6	1946.9	2115.8	2298.3	2452.2	2597.5	2688.1	2716.6
30°	1393.7	1509.4	1625.1	1761.9	1919.1	2107.6	2301.6	2477.8	2596.9	2636.4	2607.1
32.5°	1355.1	1459.9	1574.5	1714.5	1881.5	2087.5	2305.9	2462.6	2534.3	2504.1	2385.0
35°	1286.9	1381.5	1492.4	1632.6	1824.5	2076.3	2288.0	2394.1	2376.4	2206.3	1981.7
37.5°	1213.9	1291.0	1393.7	1540.3	1765.4	2032.1	2210.6	2226.3	2073.2	1812.0	1552.6
40°	1156.2	1225.6	1331.1	1484.2	1719.7	1988.5	2132.8	2069.5	1832.0	1541.4	1325.0
42.5°	1100.1	1158.7	1260.3	1425.4	1676.2	1929.2	2016.8	1879.0	1605.0	1330.2	1133.4
45°	1005.1	1060.3	1162.3	1331.8	1587.0	1815.7	1804.1	1564.5	1290.3	1069.1	905.8
47.5°	915.0	963.2	1059.0	1232.0	1482.3	1645.5	1537.3	1282.4	1049.8	872.3	755.8
50°	851.3	899.0	994.3	1165.1	1398.5	1517.6	1363.1	1117.4	904.4	757.4	664.9
52.5°	790.4	836.9	924.0	1090.5	1297.2	1368.4	1202.5	974.8	797.2	670.3	590.8
55°	705.0	740.4	818.7	977.9	1132.4	1148.7	980.6	790.1	643.8	555.3	500.9
57.5°	618.1	648.5	725.9	852.7	961.0	952.6	793.2	628.4	529.9	464.1	424.7
60°	561.4	591.4	659.4	768.3	850.0	821.4	675.1	542.4	458.0	409.7	378.4
62.5°	508.6	532.0	595.7	675.2	734.0	701.6	577.1	467.3	400.3	359.6	334.8
65°	432.1	451.2	502.2	543.7	576.4	545.1	441.7	365.4	317.1	288.5	271.5
67.5°	359.5	371.6	403.8	418.8	441.8	407.5	332.1	281.1	253.6	229.5	217.6
70°	313.7	322.6	339.6	351.8	358.0	322.6	266.8	229.3	206.2	189.2	181.7
72.5°	268.0	275.8	279.2	289.2	286.1	252.9	214.5	184.7	168.1	156.5	146.9
75°	204.8	208.2	204.8	200.8	191.9	168.8	142.2	127.3	115.0	109.6	106.2
77.5°	149.3	148.2	143.6	137.2	122.1	107.5	93.2	88.2	82.9	80.0	78.8
80°	115.0	112.3	108.2	98.0	85.1	74.9	71.5	68.1	66.0	62.6	61.9
82.5°	85.6	84.0	77.2	68.6	59.5	54.7	51.9	50.6	48.6	46.8	46.7
85°	45.6	43.6	36.1	31.3	29.9	28.6	27.9	27.9	25.2	24.5	24.5
87.5°	15.7	13.1	13.2	12.2	13.0	12.8	14.2	13.9	14.3	15.1	14.2
90°	4.8	8.1	11.5	14.8	18.6	22.9	27.2	31.6	35.9	37.2	38.5
92.5°	26.9	25.9	25.0	24.1	25.2	28.5	31.8	35.0	38.3	40.4	42.5
95°	77.6	64.0	50.3	36.7	31.7	35.4	39.0	42.7	46.3	48.7	51.0
97.5°	177.2	171.1	164.9	158.8	143.8	119.9	96.0	72.1	48.1	50.8	53.5
100°	259.3	265.9	272.6	279.2	256.6	204.8	153.0	101.2	49.3	52.0	54.6
102.5°	336.4	341.2	345.9	350.7	324.8	268.2	211.6	155.0	98.4	90.1	81.9
105°	449.2	452.8	456.5	460.1	447.0	417.1	387.2	357.3	327.4	268.6	209.8
107.5°	568.6	571.5	574.5	577.4	581.2	585.9	590.7	595.4	600.1	557.0	513.8
110°	648.5	651.1	653.8	656.5	659.6	663.3	666.9	670.6	674.2	663.3	652.3





TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	724.8	727.2	729.6	731.9	735.0	738.6	742.3	745.9	749.6	749.8	750.0
115°	837.7	839.7	841.7	843.7	846.2	849.2	852.1	855.1	858.1	861.4	864.8
117.5°	947.9	950.3	952.8	955.3	957.3	958.8	960.3	961.8	963.4	966.0	968.7
120°	1016.6	1019.6	1022.6	1025.6	1027.6	1028.5	1029.5	1030.5	1031.5	1034.2	1036.9
122.5°	1085.4	1087.9	1090.3	1092.8	1094.7	1095.9	1097.2	1098.4	1099.7	1101.6	1103.4
125°	1180.7	1183.4	1186.0	1188.7	1190.7	1192.0	1193.3	1194.7	1196.0	1196.7	1197.3
127.5°	1272.8	1275.5	1278.1	1280.8	1282.9	1284.5	1286.1	1287.7	1289.3	1290.3	1291.4
130°	1330.2	1332.9	1335.5	1338.2	1340.2	1341.5	1342.8	1344.2	1345.5	1346.8	1348.1
132.5°	1385.2	1387.9	1390.5	1393.2	1395.1	1396.1	1397.2	1398.2	1399.3	1400.6	1402.0
135°	1468.6	1470.6	1472.6	1474.6	1476.2	1477.5	1478.9	1480.2	1481.5	1482.5	1483.5
137.5°	1540.9	1543.4	1545.9	1548.4	1550.1	1550.8	1551.5	1552.3	1553.0	1554.6	1556.2
140°	1588.2	1590.2	1592.2	1594.2	1595.6	1596.6	1597.6	1598.6	1599.6	1601.0	1602.3
142.5°	1632.4	1634.4	1636.4	1638.4	1639.9	1640.9	1641.9	1642.9	1643.9	1644.9	1646.0
145°	1694.6	1697.0	1699.3	1701.6	1703.1	1703.8	1704.4	1705.1	1705.8	1706.4	1707.1
147.5°	1752.2	1753.7	1755.2	1756.7	1757.8	1758.5	1759.2	1759.8	1760.5	1761.2	1761.8
150°	1787.5	1788.5	1789.5	1790.5	1791.3	1792.0	1792.7	1793.3	1794.0	1794.6	1795.3
152.5°	1819.3	1819.7	1820.2	1820.7	1821.1	1821.5	1821.9	1822.3	1822.7	1823.9	1825.1
155°	1863.6	1862.9	1862.3	1861.6	1861.4	1861.8	1862.1	1862.4	1862.7	1864.4	1866.1
157.5°	1899.5	1899.4	1899.3	1899.3	1899.1	1898.7	1898.4	1898.1	1897.7	1899.7	1901.7
160°	1920.7	1920.4	1920.1	1919.7	1919.4	1919.1	1918.7	1918.4	1918.1	1920.1	1922.1
162.5°	1940.5	1939.7	1938.8	1937.9	1937.3	1937.0	1936.7	1936.3	1936.0	1938.3	1940.5
165°	1964.9	1963.9	1962.9	1961.9	1961.3	1960.9	1960.6	1960.3	1959.9	1962.6	1965.2
167.5°	1983.7	1982.4	1981.1	1979.7	1979.1	1979.1	1979.1	1979.1	1979.1	1981.7	1984.4
170°	1994.5	1993.1	1991.8	1990.5	1989.8	1989.8	1989.8	1989.8	1989.8	1992.5	1995.1
172.5°	2001.4	1999.8	1998.2	1996.6	1995.9	1996.2	1996.5	1996.7	1997.0	1999.7	2002.3
175°	2010.6	2008.9	2007.3	2005.6	2004.9	2005.3	2005.6	2005.9	2006.3	2008.6	2010.9
177.5°	2013.3	2012.0	2010.7	2009.3	2008.8	2009.1	2009.3	2009.6	2009.9	2012.0	2014.1
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7	1589.7
2.5°	1676.8	1676.8	1679.0	1687.2	1688.3	1695.3	1693.2
5°	1842.9	1855.8	1860.6	1881.0	1893.2	1898.7	1887.8
7.5°	2046.0	2082.4	2099.7	2121.1	2140.0	2145.7	2130.9
10°	2194.0	2232.1	2264.1	2283.9	2302.2	2314.5	2330.1
12.5°	2337.2	2384.0	2414.4	2442.3	2461.2	2476.7	2479.3
15°	2492.8	2563.6	2617.3	2656.8	2676.5	2686.7	2682.7
17.5°	2649.7	2715.3	2753.6	2793.9	2821.2	2822.6	2823.4
20°	2738.5	2802.4	2846.7	2876.6	2907.2	2905.9	2912.7
22.5°	2797.8	2848.2	2882.1	2903.8	2914.3	2909.1	2910.5
25°	2825.6	2840.5	2834.4	2799.7	2790.9	2758.9	2764.3
27.5°	2682.4	2611.6	2538.4	2444.2	2369.9	2310.5	2313.5
30°	2488.0	2362.8	2219.9	2100.1	1992.6	1962.7	1898.7
32.5°	2216.4	2028.5	1861.1	1749.5	1657.2	1632.2	1576.4
35°	1755.8	1573.4	1401.2	1297.8	1256.9	1199.8	1199.1
37.5°	1364.7	1204.1	1113.1	1035.5	994.8	960.2	956.8
40°	1148.1	1022.8	954.1	898.3	858.2	832.3	826.2
42.5°	996.7	895.4	831.1	796.5	765.6	752.3	742.3
45°	813.9	745.9	700.9	669.6	655.4	645.1	639.7
47.5°	680.8	635.2	604.6	583.8	572.2	561.4	564.3
50°	608.4	571.0	548.5	528.8	519.9	512.4	513.1
52.5°	550.1	516.5	498.4	484.1	473.1	467.8	465.2
55°	466.8	445.7	427.4	417.2	411.0	403.6	401.5
57.5°	398.2	381.9	366.9	355.4	353.9	346.7	347.6
60°	352.5	338.9	326.7	320.5	315.8	309.6	311.7
62.5°	315.0	303.5	292.4	287.3	282.6	278.1	279.0
65°	257.9	247.0	240.2	237.5	235.5	233.4	231.4
67.5°	205.5	198.9	194.6	188.8	184.6	183.9	181.8
70°	172.9	164.0	156.5	149.0	147.0	146.3	147.0
72.5°	138.6	133.0	130.9	127.3	126.9	125.1	126.3
75°	104.1	102.1	100.7	98.0	98.0	98.0	98.0
77.5°	76.8	75.5	74.7	74.2	73.5	72.5	72.4
80°	59.9	59.2	57.8	57.8	57.2	57.8	57.2
82.5°	45.2	45.1	43.7	43.7	43.0	42.6	43.0
85°	23.1	22.5	23.8	22.5	23.1	21.8	23.1
87.5°	14.5	14.8	14.4	14.6	14.1	15.4	14.4
90°	39.9	41.2	42.2	42.9	43.5	44.2	44.8
92.5°	44.7	46.8	48.0	48.4	48.8	49.2	49.6
95°	53.3	55.6	56.8	56.8	56.8	56.8	56.8
97.5°	56.1	58.8	60.3	60.6	60.9	61.3	61.6
100°	57.3	60.0	61.5	61.8	62.1	62.5	62.8
102.5°	73.7	65.4	61.6	62.2	62.8	63.4	64.0
105°	151.0	92.2	63.1	63.8	64.5	65.1	65.8
107.5°	470.7	427.6	383.9	339.6	295.2	250.9	206.6
110°	641.3	630.4	601.1	553.6	506.1	458.6	411.1



TEST NUMBER: P332466

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	750.2	750.4	745.5	735.4	725.4	715.4	705.3
115°	868.1	871.4	873.7	875.1	876.4	877.7	879.1
117.5°	971.3	974.0	975.5	975.7	976.0	976.3	976.5
120°	1039.5	1042.2	1043.5	1043.5	1043.5	1043.5	1043.5
122.5°	1105.3	1107.2	1108.2	1108.5	1108.7	1109.0	1109.3
125°	1198.0	1198.6	1199.3	1200.0	1200.6	1201.3	1202.0
127.5°	1292.5	1293.5	1293.7	1293.1	1292.4	1291.7	1291.1
130°	1349.5	1350.8	1351.1	1350.5	1349.8	1349.1	1348.5
132.5°	1403.3	1404.6	1404.8	1403.9	1403.0	1402.0	1401.1
135°	1484.5	1485.5	1485.5	1484.5	1483.5	1482.5	1481.5
137.5°	1557.8	1559.4	1559.8	1559.2	1558.5	1557.8	1557.2
140°	1603.6	1604.9	1605.3	1604.6	1604.0	1603.3	1602.6
142.5°	1647.1	1648.1	1648.2	1647.3	1646.3	1645.4	1644.5
145°	1707.8	1708.4	1708.8	1708.8	1708.8	1708.8	1708.8
147.5°	1762.5	1763.2	1762.7	1761.2	1759.7	1758.1	1756.6
150°	1796.0	1796.6	1796.5	1795.5	1794.5	1793.5	1792.5
152.5°	1826.3	1827.5	1827.3	1825.8	1824.2	1822.7	1821.2
155°	1867.7	1869.4	1869.2	1867.2	1865.2	1863.2	1861.3
157.5°	1903.7	1905.7	1905.4	1902.8	1900.2	1897.6	1895.0
160°	1924.0	1926.0	1925.9	1923.5	1921.2	1918.9	1916.6
162.5°	1942.8	1945.0	1945.1	1943.1	1941.0	1939.0	1936.9
165°	1967.9	1970.6	1970.7	1968.4	1966.1	1963.7	1961.4
167.5°	1987.0	1989.7	1989.7	1987.0	1984.4	1981.7	1979.1
170°	1997.8	2000.5	2000.5	1997.8	1995.1	1992.5	1989.8
172.5°	2005.0	2007.6	2007.5	2004.6	2001.7	1998.7	1995.8
175°	2013.2	2015.6	2015.4	2012.7	2010.1	2007.4	2004.8
177.5°	2016.2	2018.4	2018.1	2015.4	2012.8	2010.1	2007.5
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2

(END OF REPORT)