

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: P332467

Luminaire Tested: **S123RDIW-S1000D1535U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332467
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
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-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9282.4 lumens
Efficiency: N/A
Efficacy: 121.2 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: General Diffuse

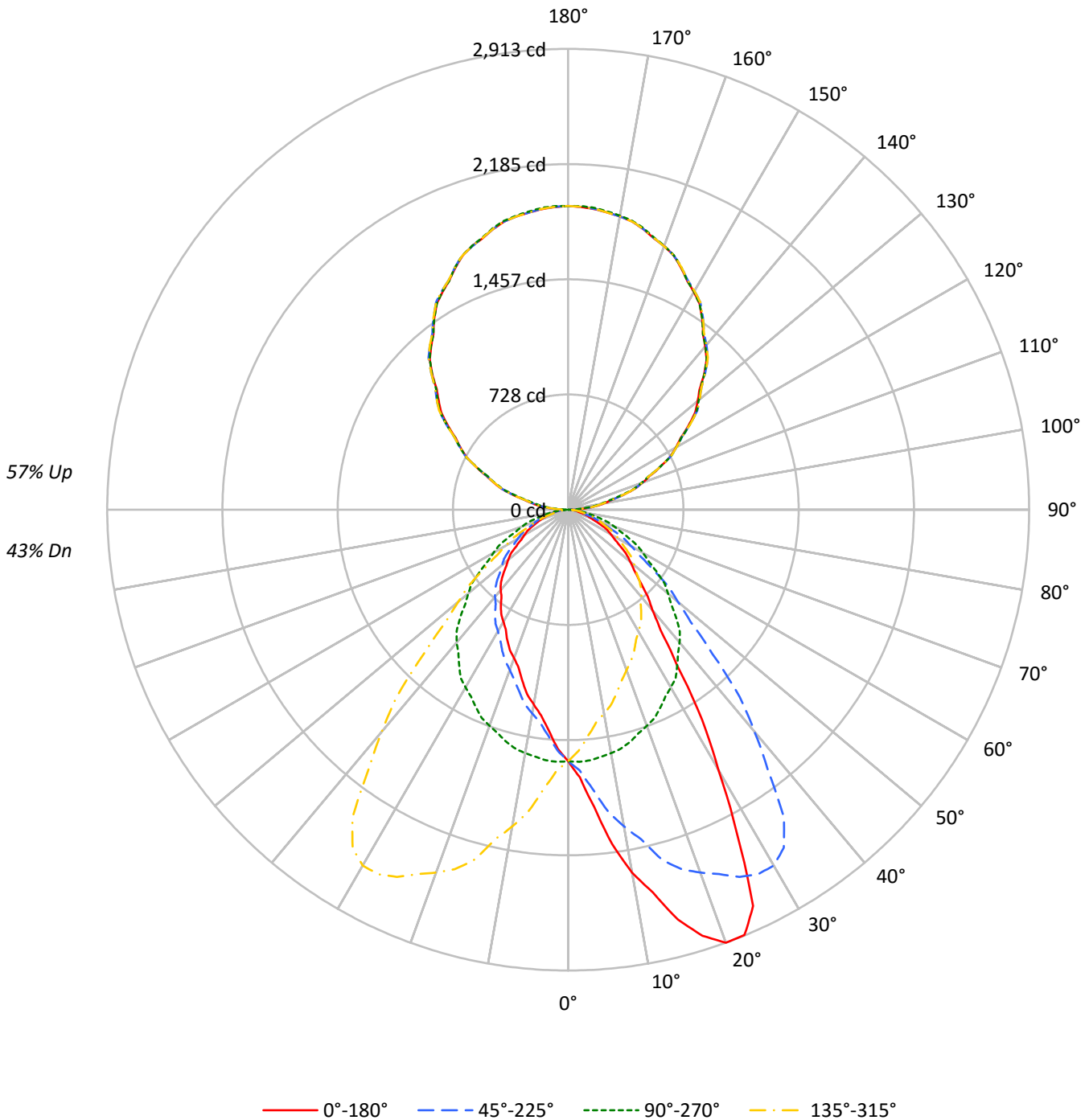
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43																												
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	44	43	37																												
2	88	81	76	71	81	75	70	65	62	59	55	50	48	46	40	38	37	32																												
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27																												
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24																												
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	24	21																												
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	27	24	22	19																												
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																												
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	18	15																												
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14																												
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	1.7
10°-20°	488.4	5.3
20°-30°	767.3	8.3
30°-40°	800.5	8.6
40°-50°	685.1	7.4
50°-60°	522.2	5.6
60°-70°	334.7	3.6
70°-80°	161.0	1.7
80°-90°	48.3	0.5
90°-100°	125.1	1.3
100°-110°	374.3	4.0
110°-120°	636.6	6.9
120°-130°	837.4	9.0
130°-140°	941.2	10.1
140°-150°	925.2	10.0
150°-160°	778.9	8.4
160°-170°	518.5	5.6
170°-180°	181.6	2.0
0°-30°	1412.0	15.2
0°-40°	2212.6	23.8
0°-60°	3419.8	36.8
0°-90°	3963.8	42.7
90°-120°	1136.0	12.2
90°-150°	3839.7	41.4
90°-180°	5319.0	57.3
0°-180°	9282.4	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	23
95°	118	89	118	89	118	121
105°	359	339	359	339	359	381
115°	642	641	642	641	642	636
125°	927	938	927	938	927	829
135°	1215	1217	1215	1217	1215	934
145°	1476	1476	1476	1476	1476	921
155°	1687	1690	1687	1690	1687	777
165°	1835	1841	1835	1841	1835	518
175°	1908	1915	1908	1915	1908	181
180°	1920	1920	1920	1920	1920	



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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°	14.5	15.4	14.2	14.6	14.5	14.8	14.6	14.3	15.1	14.3	14.0
90°	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9	37.5	36.2	31.8
92.5°	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0	59.0	57.9	55.4
95°	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3	112.9	111.6	108.9
97.5°	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7	176.2	174.6	172.7
100°	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7	222.7	221.7	220.0
102.5°	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8	275.8	274.7	272.5
105°	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9	355.9	355.9	352.9
107.5°	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6	440.5	439.4	438.2
110°	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8	497.5	496.1	495.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0	554.4	552.8	552.7
115°	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1	642.7	642.4	643.1
117.5°	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9	731.0	731.1	731.9
120°	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5	789.8	790.2	791.8
122.5°	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7	849.6	850.5	851.4
125°	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8	938.1	939.5	940.1
127.5°	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8	1025.6	1027.5	1028.3
130°	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5	1082.9	1084.2	1085.2
132.5°	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7	1139.3	1140.9	1141.6
135°	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8	1223.1	1224.5	1224.8
137.5°	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0	1305.4	1306.8	1305.9
140°	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3
142.5°	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7	1409.0	1409.3	1408.7
145°	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1	1483.5	1483.8	1482.8
147.5°	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.2
152.5°	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6	1636.1	1635.5	1635.1
155°	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6	1693.3	1691.9	1691.6
157.5°	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5	1743.1	1741.7	1741.4
160°	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2	1773.5	1771.8	1771.8
162.5°	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1	1802.5	1800.8	1800.5
165°	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7	1838.7	1836.7	1836.7
167.5°	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2	1866.0
170°	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9	1881.9
172.5°	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3	1897.3	1895.2	1895.2
175°	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1	1911.1	1909.1	1909.1
177.5°	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2	1917.6	1916.0	1916.0
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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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°	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5	4.9	8.2	11.6
92.5°	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5	38.8	41.0	43.3
95°	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0	91.3	93.7	96.0
97.5°	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0	159.8	161.5	163.3
100°	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1	207.1	209.1	211.1
102.5°	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4	260.6	261.8	263.0
105°	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3	340.0	340.6	341.3
107.5°	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2	432.6	433.0	433.4
110°	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1	490.8	491.4	492.1



TEST NUMBER: P332467

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4	550.8	551.2	551.6
115°	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9	641.9	642.9	643.9
117.5°	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0	732.6	733.3	734.0
120°	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7	790.7	792.7	794.7
122.5°	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8	849.2	850.7	852.2
125°	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9	938.9	940.0	941.0
127.5°	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2	1023.3	1025.5	1027.6
130°	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7	1079.4	1082.0	1084.7
132.5°	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2	1134.8	1137.5	1140.2
135°	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9	1218.9	1220.9	1222.9
137.5°	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3	1297.0	1298.7	1300.4
140°	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6	1351.3	1353.0	1354.6
142.5°	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1	1400.7	1402.4	1404.1
145°	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3	1477.0	1477.6	1478.3
147.5°	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8	1545.0	1546.2	1547.5
150°	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9	1591.6	1592.2	1592.9
152.5°	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5	1630.4	1631.4	1632.3
155°	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3	1741.9	1741.5	1741.1
160°	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9	1774.2	1773.5	1772.8
162.5°	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8	1802.9	1801.9	1801.0
165°	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2	1840.2	1839.2	1838.2
167.5°	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1	1869.7	1868.4	1867.0
170°	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9	1886.6	1885.3	1883.9
172.5°	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2	1899.9	1898.5	1897.2
175°	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1	1913.8	1912.4	1911.1
177.5°	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8	1919.8	1918.7	1917.6
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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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	23.5	24.9	25.2	26.0	26.3	27.1	27.4	27.6
90°	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9	40.2	41.6	42.6
92.5°	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0	61.1	62.2	62.5
95°	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3	115.6	116.9	117.6
97.5°	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7	179.2	180.8	181.5
100°	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7	224.7	225.7	226.5
102.5°	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8	277.8	278.8	279.2
105°	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9	355.9	355.9	356.2
107.5°	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6	442.6	443.7	444.0
110°	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8	500.1	501.5	501.8



TEST NUMBER: P332467

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0	557.6	559.2	560.0
115°	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1	643.4	643.7	643.7
117.5°	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9	730.9	730.8	730.3
120°	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5	789.2	788.8	788.3
122.5°	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7	847.9	847.0	846.1
125°	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8	935.4	934.1	932.7
127.5°	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8	1021.9	1020.0	1018.3
130°	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5	1080.2	1078.9	1077.0
132.5°	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7	1136.1	1134.5	1132.8
135°	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8	1220.4	1219.1	1218.1
137.5°	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0	1302.6	1301.2	1299.8
140°	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.0
142.5°	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7	1408.3	1408.0	1406.9
145°	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1	1482.8	1482.5	1481.6
147.5°	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5	1553.5	1553.5	1552.5
150°	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9	1596.9	1596.9	1595.9
152.5°	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6	1637.1	1637.7	1637.1
155°	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6	1695.9	1697.3	1696.8
157.5°	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5	1745.9	1747.3	1747.1
160°	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2	1776.9	1778.5	1778.7
162.5°	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1	1805.8	1807.5	1807.3
165°	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7	1842.7	1844.7	1844.6
167.5°	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5
170°	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3
172.5°	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3	1901.4	1903.5	1903.4
175°	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1	1915.1	1917.1	1916.9
177.5°	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2	1920.8	1922.4	1922.3
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332467

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A1

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°	28.8	27.8	28.0	28.6	28.0	27.8	28.8	27.6	27.4	27.1	26.3
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.6	40.2	38.9
92.5°	62.1	61.7	61.3	60.9	61.3	61.7	62.1	62.5	62.2	61.1	60.0
95°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	116.9	115.6	114.3
97.5°	181.4	181.2	181.1	181.0	181.1	181.2	181.4	181.5	180.8	179.2	177.7
100°	227.2	227.9	228.5	229.2	228.5	227.9	227.2	226.5	225.7	224.7	223.7
102.5°	279.1	278.9	278.8	278.7	278.8	278.9	279.1	279.2	278.8	277.8	276.8
105°	356.9	357.6	358.2	358.9	358.2	357.6	356.9	356.2	355.9	355.9	355.9
107.5°	443.6	443.2	442.8	442.4	442.8	443.2	443.6	444.0	443.7	442.6	441.6
110°	501.1	500.5	499.8	499.1	499.8	500.5	501.1	501.8	501.5	500.1	498.8



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CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	559.9	559.7	559.6	559.4	559.6	559.7	559.9	560.0	559.2	557.6	556.0
115°	643.4	643.1	642.7	642.4	642.7	643.1	643.4	643.7	643.7	643.4	643.1
117.5°	729.3	728.4	727.5	726.5	727.5	728.4	729.3	730.3	730.8	730.9	730.9
120°	787.7	787.0	786.3	785.6	786.3	787.0	787.7	788.3	788.8	789.2	789.5
122.5°	845.2	844.2	843.3	842.3	843.3	844.2	845.2	846.1	847.0	847.9	848.7
125°	931.4	930.1	928.7	927.4	928.7	930.1	931.4	932.7	934.1	935.4	936.8
127.5°	1016.8	1015.2	1013.7	1012.1	1013.7	1015.2	1016.8	1018.3	1020.0	1021.9	1023.8
130°	1074.7	1072.3	1070.0	1067.6	1070.0	1072.3	1074.7	1077.0	1078.9	1080.2	1081.5
132.5°	1131.0	1129.2	1127.3	1125.5	1127.3	1129.2	1131.0	1132.8	1134.5	1136.1	1137.7
135°	1217.4	1216.7	1216.1	1215.4	1216.1	1216.7	1217.4	1218.1	1219.1	1220.4	1221.8
137.5°	1298.5	1297.3	1296.0	1294.7	1296.0	1297.3	1298.5	1299.8	1301.2	1302.6	1304.0
140°	1353.6	1351.3	1348.9	1346.6	1348.9	1351.3	1353.6	1356.0	1357.3	1357.7	1358.0
142.5°	1405.1	1403.3	1401.5	1399.7	1401.5	1403.3	1405.1	1406.9	1408.0	1408.3	1408.7
145°	1480.3	1479.0	1477.6	1476.3	1477.6	1479.0	1480.3	1481.6	1482.5	1482.8	1483.1
147.5°	1550.5	1548.5	1546.4	1544.4	1546.4	1548.5	1550.5	1552.5	1553.5	1553.5	1553.5
150°	1593.9	1591.9	1589.9	1587.9	1589.9	1591.9	1593.9	1595.9	1596.9	1596.9	1596.9
152.5°	1635.3	1633.6	1631.8	1630.1	1631.8	1633.6	1635.3	1637.1	1637.7	1637.1	1636.6
155°	1694.4	1692.1	1689.7	1687.4	1689.7	1692.1	1694.4	1696.8	1697.3	1695.9	1694.6
157.5°	1745.2	1743.3	1741.4	1739.6	1741.4	1743.3	1745.2	1747.1	1747.3	1745.9	1744.5
160°	1777.4	1776.0	1774.7	1773.3	1774.7	1776.0	1777.4	1778.7	1778.5	1776.9	1775.2
162.5°	1805.1	1803.0	1800.8	1798.7	1800.8	1803.0	1805.1	1807.3	1807.5	1805.8	1804.1
165°	1842.2	1839.9	1837.5	1835.2	1837.5	1839.9	1842.2	1844.6	1844.7	1842.7	1840.7
167.5°	1872.5	1870.4	1868.3	1866.2	1868.3	1870.4	1872.5	1874.5	1874.5	1872.5	1870.4
170°	1889.0	1886.6	1884.3	1881.9	1884.3	1886.6	1889.0	1891.3	1891.3	1889.0	1886.6
172.5°	1901.0	1898.7	1896.3	1894.0	1896.3	1898.7	1901.0	1903.4	1903.5	1901.4	1899.3
175°	1914.6	1912.2	1909.9	1907.6	1909.9	1912.2	1914.6	1916.9	1917.1	1915.1	1913.1
177.5°	1920.4	1918.5	1916.7	1914.8	1916.7	1918.5	1920.4	1922.3	1922.4	1920.8	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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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	25.2	24.9	23.5	22.0	20.6	18.2	18.1	17.4	18.9	17.7
90°	37.5	36.2	31.8	27.5	23.1	18.8	14.9	11.6	8.2	4.9	1.5
92.5°	59.0	57.9	55.4	52.9	50.5	48.0	45.6	43.3	41.0	38.8	36.5
95°	112.9	111.6	108.9	106.2	103.5	100.9	98.4	96.0	93.7	91.3	89.0
97.5°	176.2	174.6	172.7	170.7	168.8	166.8	165.0	163.3	161.5	159.8	158.0
100°	222.7	221.7	220.0	218.3	216.6	215.0	213.1	211.1	209.1	207.1	205.1
102.5°	275.8	274.7	272.5	270.3	268.1	265.9	264.2	263.0	261.8	260.6	259.4
105°	355.9	355.9	352.9	349.8	346.8	343.8	342.0	341.3	340.6	340.0	339.3
107.5°	440.5	439.4	438.2	437.0	435.8	434.6	433.8	433.4	433.0	432.6	432.2
110°	497.5	496.1	495.4	494.8	494.1	493.4	492.8	492.1	491.4	490.8	490.1



TEST NUMBER: P332467

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	554.4	552.8	552.7	552.5	552.4	552.3	552.0	551.6	551.2	550.8	550.4
115°	642.7	642.4	643.1	643.7	644.4	645.1	644.9	643.9	642.9	641.9	640.9
117.5°	731.0	731.1	731.9	732.8	733.7	734.5	734.6	734.0	733.3	732.6	732.0
120°	789.8	790.2	791.8	793.5	795.2	796.9	796.7	794.7	792.7	790.7	788.7
122.5°	849.6	850.5	851.4	852.2	853.1	854.0	853.7	852.2	850.7	849.2	847.8
125°	938.1	939.5	940.1	940.8	941.5	942.1	942.0	941.0	940.0	938.9	937.9
127.5°	1025.6	1027.5	1028.3	1029.0	1029.7	1030.5	1029.8	1027.6	1025.5	1023.3	1021.2
130°	1082.9	1084.2	1085.2	1086.2	1087.2	1088.2	1087.4	1084.7	1082.0	1079.4	1076.7
132.5°	1139.3	1140.9	1141.6	1142.4	1143.1	1143.9	1142.9	1140.2	1137.5	1134.8	1132.2
135°	1223.1	1224.5	1224.8	1225.1	1225.5	1225.8	1225.0	1222.9	1220.9	1218.9	1216.9
137.5°	1305.4	1306.8	1305.9	1305.0	1304.2	1303.3	1302.0	1300.4	1298.7	1297.0	1295.3
140°	1358.3	1358.7	1358.3	1358.0	1357.7	1357.3	1356.3	1354.6	1353.0	1351.3	1349.6
142.5°	1409.0	1409.3	1408.7	1408.1	1407.5	1406.9	1405.8	1404.1	1402.4	1400.7	1399.1
145°	1483.5	1483.8	1482.8	1481.8	1480.8	1479.8	1479.0	1478.3	1477.6	1477.0	1476.3
147.5°	1553.5	1553.5	1552.5	1551.6	1550.7	1549.7	1548.7	1547.5	1546.2	1545.0	1543.8
150°	1596.9	1596.9	1596.2	1595.6	1594.9	1594.2	1593.6	1592.9	1592.2	1591.6	1590.9
152.5°	1636.1	1635.5	1635.1	1634.7	1634.3	1633.9	1633.2	1632.3	1631.4	1630.4	1629.5
155°	1693.3	1691.9	1691.6	1691.2	1690.9	1690.6	1690.4	1690.4	1690.4	1690.4	1690.4
157.5°	1743.1	1741.7	1741.4	1741.1	1740.9	1740.6	1740.7	1741.1	1741.5	1741.9	1742.3
160°	1773.5	1771.8	1771.8	1771.8	1771.8	1771.8	1772.2	1772.8	1773.5	1774.2	1774.9
162.5°	1802.5	1800.8	1800.5	1800.3	1800.0	1799.7	1800.1	1801.0	1801.9	1802.9	1803.8
165°	1838.7	1836.7	1836.7	1836.7	1836.7	1836.7	1837.2	1838.2	1839.2	1840.2	1841.2
167.5°	1868.3	1866.2	1866.0	1865.7	1865.4	1865.2	1865.7	1867.0	1868.4	1869.7	1871.1
170°	1884.3	1881.9	1881.9	1881.9	1881.9	1881.9	1882.6	1883.9	1885.3	1886.6	1887.9
172.5°	1897.3	1895.2	1895.2	1895.2	1895.2	1895.2	1895.9	1897.2	1898.5	1899.9	1901.2
175°	1911.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.7	1911.1	1912.4	1913.8	1915.1
177.5°	1917.6	1916.0	1916.0	1916.0	1916.0	1916.0	1916.5	1917.6	1918.7	1919.8	1920.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



TEST NUMBER: P332467

CATALOG NUMBER: S123RDIW-S1000D1535U835-4F0-1E-UDD-A1

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	14.0	14.3	15.1	14.3
90°	4.9	8.2	11.6	14.9	18.8	23.1	27.5	31.8	36.2	37.5	38.9
92.5°	38.8	41.0	43.3	45.6	48.0	50.5	52.9	55.4	57.9	59.0	60.0
95°	91.3	93.7	96.0	98.4	100.9	103.5	106.2	108.9	111.6	112.9	114.3
97.5°	159.8	161.5	163.3	165.0	166.8	168.8	170.7	172.7	174.6	176.2	177.7
100°	207.1	209.1	211.1	213.1	215.0	216.6	218.3	220.0	221.7	222.7	223.7
102.5°	260.6	261.8	263.0	264.2	265.9	268.1	270.3	272.5	274.7	275.8	276.8
105°	340.0	340.6	341.3	342.0	343.8	346.8	349.8	352.9	355.9	355.9	355.9
107.5°	432.6	433.0	433.4	433.8	434.6	435.8	437.0	438.2	439.4	440.5	441.6
110°	490.8	491.4	492.1	492.8	493.4	494.1	494.8	495.4	496.1	497.5	498.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	550.8	551.2	551.6	552.0	552.3	552.4	552.5	552.7	552.8	554.4	556.0
115°	641.9	642.9	643.9	644.9	645.1	644.4	643.7	643.1	642.4	642.7	643.1
117.5°	732.6	733.3	734.0	734.6	734.5	733.7	732.8	731.9	731.1	731.0	730.9
120°	790.7	792.7	794.7	796.7	796.9	795.2	793.5	791.8	790.2	789.8	789.5
122.5°	849.2	850.7	852.2	853.7	854.0	853.1	852.2	851.4	850.5	849.6	848.7
125°	938.9	940.0	941.0	942.0	942.1	941.5	940.8	940.1	939.5	938.1	936.8
127.5°	1023.3	1025.5	1027.6	1029.8	1030.5	1029.7	1029.0	1028.3	1027.5	1025.6	1023.8
130°	1079.4	1082.0	1084.7	1087.4	1088.2	1087.2	1086.2	1085.2	1084.2	1082.9	1081.5
132.5°	1134.8	1137.5	1140.2	1142.9	1143.9	1143.1	1142.4	1141.6	1140.9	1139.3	1137.7
135°	1218.9	1220.9	1222.9	1225.0	1225.8	1225.5	1225.1	1224.8	1224.5	1223.1	1221.8
137.5°	1297.0	1298.7	1300.4	1302.0	1303.3	1304.2	1305.0	1305.9	1306.8	1305.4	1304.0
140°	1351.3	1353.0	1354.6	1356.3	1357.3	1357.7	1358.0	1358.3	1358.7	1358.3	1358.0
142.5°	1400.7	1402.4	1404.1	1405.8	1406.9	1407.5	1408.1	1408.7	1409.3	1409.0	1408.7
145°	1477.0	1477.6	1478.3	1479.0	1479.8	1480.8	1481.8	1482.8	1483.8	1483.5	1483.1
147.5°	1545.0	1546.2	1547.5	1548.7	1549.7	1550.7	1551.6	1552.5	1553.5	1553.5	1553.5
150°	1591.6	1592.2	1592.9	1593.6	1594.2	1594.9	1595.6	1596.2	1596.9	1596.9	1596.9
152.5°	1630.4	1631.4	1632.3	1633.2	1633.9	1634.3	1634.7	1635.1	1635.5	1636.1	1636.6
155°	1690.4	1690.4	1690.4	1690.4	1690.6	1690.9	1691.2	1691.6	1691.9	1693.3	1694.6
157.5°	1741.9	1741.5	1741.1	1740.7	1740.6	1740.9	1741.1	1741.4	1741.7	1743.1	1744.5
160°	1774.2	1773.5	1772.8	1772.2	1771.8	1771.8	1771.8	1771.8	1771.8	1773.5	1775.2
162.5°	1802.9	1801.9	1801.0	1800.1	1799.7	1800.0	1800.3	1800.5	1800.8	1802.5	1804.1
165°	1840.2	1839.2	1838.2	1837.2	1836.7	1836.7	1836.7	1836.7	1836.7	1838.7	1840.7
167.5°	1869.7	1868.4	1867.0	1865.7	1865.2	1865.4	1865.7	1866.0	1866.2	1868.3	1870.4
170°	1886.6	1885.3	1883.9	1882.6	1881.9	1881.9	1881.9	1881.9	1881.9	1884.3	1886.6
172.5°	1899.9	1898.5	1897.2	1895.9	1895.2	1895.2	1895.2	1895.2	1895.2	1897.3	1899.3
175°	1913.8	1912.4	1911.1	1909.7	1909.1	1909.1	1909.1	1909.1	1909.1	1911.1	1913.1
177.5°	1919.8	1918.7	1917.6	1916.5	1916.0	1916.0	1916.0	1916.0	1916.0	1917.6	1919.2
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6



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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°	14.6	14.8	14.5	14.6	14.2	15.4	14.5
90°	40.2	41.6	42.6	43.2	43.9	44.6	45.2
92.5°	61.1	62.2	62.5	62.1	61.7	61.3	60.9
95°	115.6	116.9	117.6	117.6	117.6	117.6	117.6
97.5°	179.2	180.8	181.5	181.4	181.2	181.1	181.0
100°	224.7	225.7	226.5	227.2	227.9	228.5	229.2
102.5°	277.8	278.8	279.2	279.1	278.9	278.8	278.7
105°	355.9	355.9	356.2	356.9	357.6	358.2	358.9
107.5°	442.6	443.7	444.0	443.6	443.2	442.8	442.4
110°	500.1	501.5	501.8	501.1	500.5	499.8	499.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	557.6	559.2	560.0	559.9	559.7	559.6	559.4
115°	643.4	643.7	643.7	643.4	643.1	642.7	642.4
117.5°	730.9	730.8	730.3	729.3	728.4	727.5	726.5
120°	789.2	788.8	788.3	787.7	787.0	786.3	785.6
122.5°	847.9	847.0	846.1	845.2	844.2	843.3	842.3
125°	935.4	934.1	932.7	931.4	930.1	928.7	927.4
127.5°	1021.9	1020.0	1018.3	1016.8	1015.2	1013.7	1012.1
130°	1080.2	1078.9	1077.0	1074.7	1072.3	1070.0	1067.6
132.5°	1136.1	1134.5	1132.8	1131.0	1129.2	1127.3	1125.5
135°	1220.4	1219.1	1218.1	1217.4	1216.7	1216.1	1215.4
137.5°	1302.6	1301.2	1299.8	1298.5	1297.3	1296.0	1294.7
140°	1357.7	1357.3	1356.0	1353.6	1351.3	1348.9	1346.6
142.5°	1408.3	1408.0	1406.9	1405.1	1403.3	1401.5	1399.7
145°	1482.8	1482.5	1481.6	1480.3	1479.0	1477.6	1476.3
147.5°	1553.5	1553.5	1552.5	1550.5	1548.5	1546.4	1544.4
150°	1596.9	1596.9	1595.9	1593.9	1591.9	1589.9	1587.9
152.5°	1637.1	1637.7	1637.1	1635.3	1633.6	1631.8	1630.1
155°	1695.9	1697.3	1696.8	1694.4	1692.1	1689.7	1687.4
157.5°	1745.9	1747.3	1747.1	1745.2	1743.3	1741.4	1739.6
160°	1776.9	1778.5	1778.7	1777.4	1776.0	1774.7	1773.3
162.5°	1805.8	1807.5	1807.3	1805.1	1803.0	1800.8	1798.7
165°	1842.7	1844.7	1844.6	1842.2	1839.9	1837.5	1835.2
167.5°	1872.5	1874.5	1874.5	1872.5	1870.4	1868.3	1866.2
170°	1889.0	1891.3	1891.3	1889.0	1886.6	1884.3	1881.9
172.5°	1901.4	1903.5	1903.4	1901.0	1898.7	1896.3	1894.0
175°	1915.1	1917.1	1916.9	1914.6	1912.2	1909.9	1907.6
177.5°	1920.8	1922.4	1922.3	1920.4	1918.5	1916.7	1914.8
180°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6

(END OF REPORT)