

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

Luminaire Tested: **S122RDIW-S1005D1440U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331861
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-S1005D1440U835-4F0-1E-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: 9576.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

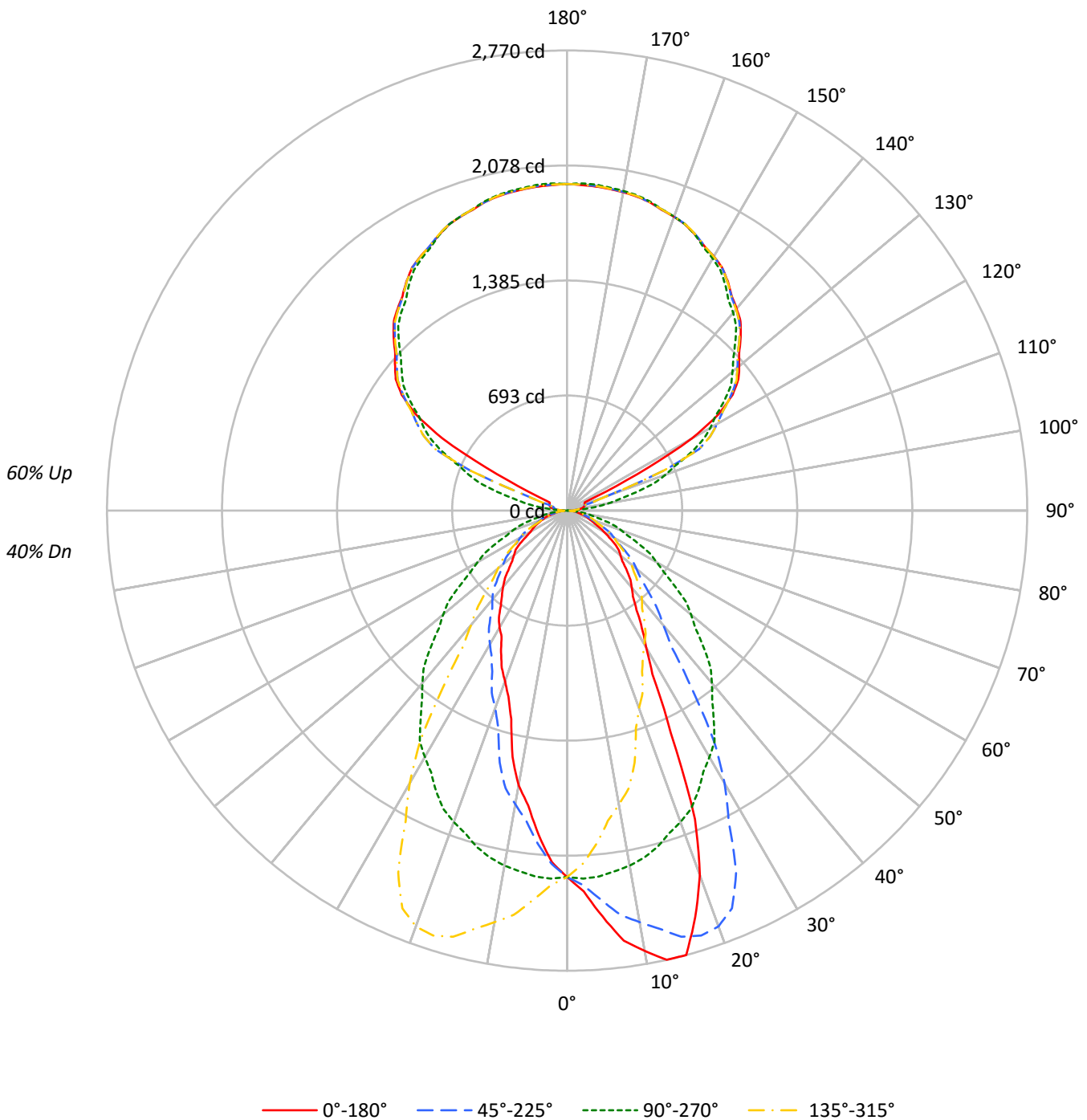
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	35608	35608	35608	35608
5°	39768	35832	31770	35832
10°	44124	35580	27539	35580
15°	46292	35059	21698	35059
20°	40132	34287	18777	34287
25°	26320	33228	16764	33228
30°	17715	31946	15172	31946
35°	14349	30328	13685	30328
40°	12760	28572	12663	28572
45°	11549	26510	11303	26510
50°	10510	24465	10472	24465
55°	9880	22196	9751	22196
60°	8263	20118	8167	20118
65°	6968	18269	7904	18269
70°	6439	16315	7454	16315
75°	6026	14198	6881	14198
80°	5560	11688	6127	11688
85°	5113	9226	5391	9226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	2.2
10°-20°	582.5	6.1
20°-30°	750.7	7.8
30°-40°	713.4	7.4
40°-50°	611.1	6.4
50°-60°	465.4	4.9
60°-70°	294.2	3.1
70°-80°	146.9	1.5
80°-90°	43.1	0.4
90°-100°	65.6	0.7
100°-110°	240.4	2.5
110°-120°	642.7	6.7
120°-130°	1060.9	11.1
130°-140°	1128.3	11.8
140°-150°	1048.7	11.0
150°-160°	843.1	8.8
160°-170°	543.3	5.7
170°-180°	187.0	2.0
0°-30°	1542.3	16.1
0°-40°	2255.7	23.6
0°-60°	3332.1	34.8
0°-90°	3816.3	39.9
90°-120°	948.7	9.9
90°-150°	4186.6	43.7
90°-180°	5760.0	60.1
0°-180°	9576.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2205	2205	2205	2205	2205	
5°	2454	2211	1960	2211	2454	242
15°	2769	2097	1298	2097	2769	747
25°	1477	1865	941	1865	1477	701
35°	728	1539	694	1539	728	466
45°	506	1161	495	1161	506	391
55°	351	788	346	788	351	308
65°	182	478	207	478	182	186
75°	97	228	110	228	97	102
85°	28	50	29	50	28	31
90°	38	1	38	1	38	18
95°	61	92	61	92	61	57
105°	108	432	108	432	108	112
115°	117	818	117	818	117	292
125°	1216	1156	1216	1156	1216	1052
135°	1478	1431	1478	1431	1478	1139
145°	1685	1660	1685	1660	1685	1054
155°	1829	1828	1829	1828	1829	844
165°	1921	1926	1921	1926	1921	542
175°	1958	1970	1958	1970	1958	187
180°	1966	1966	1966	1966	1966	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2294.9	2296.8	2298.6	2294.3	2294.3	2290.6	2282.7	2276.5	2259.4	2256.9	2256.9
5°	2453.7	2452.2	2455.2	2445.3	2431.5	2428.4	2413.9	2394.7	2374.8	2352.6	2348.0
7.5°	2611.6	2609.3	2603.1	2601.5	2590.9	2567.7	2544.3	2519.3	2486.2	2453.9	2437.6
10°	2691.3	2716.6	2701.2	2674.4	2679.8	2643.8	2624.6	2591.7	2564.1	2515.8	2505.1
12.5°	2769.7	2779.7	2774.8	2759.6	2752.7	2727.7	2701.8	2673.2	2622.3	2578.9	2541.2
15°	2769.4	2784.0	2787.8	2783.2	2787.1	2785.5	2771.7	2748.0	2703.5	2656.0	2614.6
17.5°	2565.0	2575.1	2600.2	2617.2	2638.7	2684.1	2706.4	2715.2	2708.6	2681.5	2652.3
20°	2335.7	2318.8	2389.3	2425.4	2456.0	2532.6	2598.5	2623.8	2664.4	2663.7	2656.0
22.5°	2010.8	2014.8	2081.6	2124.4	2213.9	2290.5	2365.6	2460.8	2539.4	2591.3	2621.7
25°	1477.4	1506.6	1573.2	1631.5	1731.1	1873.6	2003.1	2153.3	2295.1	2407.0	2513.5
27.5°	1109.6	1111.8	1164.6	1218.4	1277.6	1394.4	1557.4	1736.8	1938.9	2105.7	2297.5
30°	950.2	945.6	967.8	1000.8	1051.4	1141.8	1264.4	1440.7	1642.2	1893.5	2117.3
32.5°	837.4	837.7	854.4	878.8	920.8	981.8	1065.8	1208.9	1399.4	1646.5	1908.9
35°	728.0	727.2	739.5	757.1	774.7	813.8	871.3	946.4	1077.4	1308.1	1576.3
37.5°	649.5	652.9	658.9	669.9	689.4	711.1	745.6	796.0	889.4	1025.8	1251.2
40°	605.4	606.9	615.3	624.5	636.0	652.9	681.2	721.9	790.1	898.9	1063.6
42.5°	564.9	566.5	572.4	581.0	590.1	606.9	630.4	665.5	720.8	805.7	941.6
45°	505.8	505.8	511.1	515.0	524.9	540.2	559.4	588.5	626.8	689.7	780.1
47.5°	450.3	450.4	454.0	460.6	466.8	478.8	497.6	521.4	549.3	597.9	675.1
50°	418.4	419.2	421.5	426.8	430.7	441.4	456.0	476.6	505.8	543.3	607.7
52.5°	392.7	392.2	395.1	397.4	400.0	407.7	418.6	436.8	462.8	495.5	548.8
55°	351.0	347.9	352.5	356.3	358.6	361.7	367.8	379.3	401.5	429.1	469.0
57.5°	298.9	297.6	300.9	304.4	311.6	319.9	325.1	332.4	343.9	363.7	403.2
60°	255.9	255.9	262.8	265.1	273.6	284.3	295.0	301.2	312.7	325.7	354.8
62.5°	217.9	218.6	221.8	224.1	228.8	242.0	257.0	270.5	281.4	293.8	313.1
65°	182.4	183.9	183.9	185.4	188.5	191.6	197.7	208.4	227.6	245.2	259.8
67.5°	154.8	155.3	155.7	157.2	158.0	161.4	163.8	168.6	173.0	189.7	207.8
70°	136.4	138.7	137.9	139.5	140.2	141.8	144.8	147.1	154.0	157.9	168.6
72.5°	119.2	120.9	120.8	121.7	123.7	124.0	126.4	128.7	133.2	136.4	142.2
75°	96.6	95.8	96.6	98.1	98.9	99.6	99.6	102.7	105.0	108.0	111.9
77.5°	74.5	75.3	75.1	75.3	75.4	76.8	76.6	78.0	80.3	81.8	83.7
80°	59.8	60.5	59.8	60.5	61.3	62.1	61.3	62.1	64.4	65.9	65.9
82.5°	46.3	46.4	46.9	47.1	47.2	47.4	48.4	48.6	50.3	50.0	50.6
85°	27.6	26.8	26.8	26.8	27.6	28.4	27.6	27.6	28.4	28.4	28.4
87.5°	17.5	18.0	17.8	17.7	17.6	17.4	17.1	17.4	16.4	16.7	15.6
90°	38.4	37.8	37.1	36.5	35.9	34.8	33.2	31.6	30.0	28.4	25.9
92.5°	38.4	38.0	37.6	37.3	36.9	36.3	35.5	34.6	33.8	33.0	31.7
95°	61.2	61.5	61.8	62.1	62.4	61.8	60.2	58.6	57.0	55.5	53.3
97.5°	81.6	81.3	80.9	80.5	80.1	79.3	78.0	76.8	75.5	74.2	69.1
100°	95.3	94.7	94.0	93.4	92.8	91.2	88.7	86.1	83.6	81.1	75.7
102.5°	102.1	101.2	100.3	99.5	98.6	96.5	93.2	89.9	86.6	83.3	128.3
105°	108.1	106.8	105.6	104.3	103.0	100.7	97.2	93.7	90.2	86.8	173.0
107.5°	111.2	110.0	108.7	107.4	106.2	107.3	110.8	114.4	117.9	121.5	224.9
110°	112.4	111.1	109.8	108.6	107.3	122.5	154.1	185.7	217.3	248.9	340.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	113.5	112.5	111.5	110.5	109.4	166.6	281.9	397.2	512.5	627.8	650.3
115°	116.6	139.4	162.1	184.9	207.6	292.2	438.5	584.9	731.2	877.5	869.6
117.5°	476.2	550.9	625.7	700.5	775.3	830.4	865.8	901.2	936.6	972.0	966.5
120°	867.6	910.2	952.9	995.6	1038.2	1057.7	1053.9	1050.1	1046.3	1042.5	1036.8
122.5°	1082.6	1090.9	1099.2	1107.4	1115.7	1118.7	1116.5	1114.2	1111.9	1109.6	1103.4
125°	1216.0	1215.1	1214.1	1213.2	1212.2	1210.6	1208.4	1206.2	1204.0	1201.8	1195.8
127.5°	1300.2	1300.0	1299.8	1299.6	1299.5	1297.7	1294.5	1291.3	1288.1	1284.9	1280.4
130°	1352.5	1352.9	1353.2	1353.5	1353.8	1352.2	1348.8	1345.3	1341.8	1338.3	1334.8
132.5°	1403.7	1404.1	1404.4	1404.7	1405.0	1403.7	1400.7	1397.7	1394.8	1391.8	1388.3
135°	1477.7	1478.3	1479.0	1479.6	1480.2	1479.0	1475.8	1472.6	1469.5	1466.3	1463.5
137.5°	1545.1	1546.2	1547.3	1548.3	1549.4	1548.4	1545.3	1542.2	1539.1	1536.0	1532.8
140°	1587.2	1588.8	1590.4	1592.0	1593.5	1592.9	1590.1	1587.2	1584.4	1581.5	1578.1
142.5°	1628.2	1629.8	1631.3	1632.9	1634.5	1634.0	1631.4	1628.8	1626.2	1623.6	1619.6
145°	1685.4	1686.9	1688.5	1690.1	1691.7	1691.4	1689.1	1686.9	1684.7	1682.5	1677.1
147.5°	1735.7	1737.0	1738.4	1739.7	1741.0	1740.9	1739.2	1737.6	1735.9	1734.3	1729.0
150°	1766.4	1768.0	1769.6	1771.2	1772.7	1772.6	1770.7	1768.8	1766.9	1765.0	1759.9
152.5°	1792.6	1794.7	1796.8	1798.8	1800.9	1801.0	1799.1	1797.2	1795.3	1793.4	1788.6
155°	1829.0	1831.5	1834.1	1836.6	1839.1	1839.4	1837.5	1835.6	1833.7	1831.8	1828.1
157.5°	1862.3	1864.7	1867.2	1869.7	1872.1	1872.3	1870.1	1868.0	1865.9	1863.7	1861.0
160°	1881.6	1883.8	1886.0	1888.3	1890.5	1890.6	1888.7	1886.8	1884.9	1883.0	1881.1
162.5°	1897.6	1900.3	1903.0	1905.7	1908.4	1908.7	1906.6	1904.4	1902.3	1900.1	1898.5
165°	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3	1928.1	1925.9	1923.7	1921.4	1920.5
167.5°	1936.5	1939.4	1942.2	1945.1	1947.9	1948.2	1946.0	1943.8	1941.6	1939.4	1938.5
170°	1945.6	1948.5	1951.3	1954.2	1957.0	1957.3	1955.1	1952.9	1950.7	1948.5	1947.8
172.5°	1952.4	1955.3	1958.1	1961.0	1963.8	1964.1	1961.9	1959.7	1957.5	1955.3	1954.7
175°	1958.4	1961.6	1964.7	1967.9	1971.1	1971.5	1969.3	1967.1	1964.9	1962.7	1962.1
177.5°	1962.1	1964.4	1966.7	1968.9	1971.2	1971.5	1969.7	1967.9	1966.2	1964.4	1964.1
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2258.2	2253.2	2249.0	2237.9	2232.4	2220.1	2218.3	2217.7	2201.8	2186.4	2182.1
5°	2335.7	2323.4	2305.1	2283.6	2261.4	2238.4	2223.1	2210.8	2180.1	2151.0	2134.2
7.5°	2413.9	2387.5	2355.8	2315.2	2281.3	2243.3	2215.1	2189.8	2146.3	2104.6	2076.5
10°	2472.1	2429.2	2387.0	2331.1	2287.4	2244.5	2204.7	2170.2	2121.1	2066.0	2026.9
12.5°	2508.3	2461.1	2403.0	2348.3	2291.7	2237.2	2183.8	2139.5	2081.9	2024.9	1978.5
15°	2557.2	2506.6	2436.1	2357.9	2285.1	2213.9	2152.6	2097.4	2022.3	1954.1	1897.4
17.5°	2597.2	2527.6	2451.9	2361.5	2277.2	2186.6	2107.7	2037.2	1953.6	1871.3	1804.5
20°	2610.0	2541.1	2453.7	2363.3	2263.7	2157.2	2072.1	1995.5	1905.8	1816.1	1739.5
22.5°	2602.1	2548.4	2451.3	2343.1	2241.0	2129.6	2033.5	1944.6	1845.1	1753.6	1664.7
25°	2548.0	2529.6	2437.6	2319.6	2203.1	2073.6	1962.5	1865.2	1751.8	1653.7	1557.1
27.5°	2421.8	2461.5	2404.5	2278.8	2149.3	2010.5	1885.6	1774.8	1657.1	1546.7	1450.5
30°	2300.5	2391.6	2367.1	2250.6	2105.8	1969.4	1829.2	1713.5	1587.8	1474.4	1379.4
32.5°	2134.3	2285.0	2308.9	2211.4	2061.7	1911.8	1764.8	1649.7	1518.5	1399.0	1306.4
35°	1869.8	2095.1	2198.5	2136.5	1986.3	1824.6	1672.8	1538.7	1406.9	1288.9	1197.0
37.5°	1554.2	1861.1	2033.5	2037.9	1900.0	1731.9	1566.6	1433.5	1298.6	1182.7	1083.3
40°	1349.5	1682.0	1906.6	1956.4	1839.9	1658.3	1491.2	1355.6	1223.8	1110.4	996.2
42.5°	1165.6	1496.9	1772.9	1859.5	1767.0	1586.6	1418.9	1277.1	1149.0	1041.7	925.1
45°	942.6	1232.2	1536.4	1691.2	1639.9	1472.8	1295.8	1161.0	1040.6	947.9	836.0
47.5°	795.1	999.3	1293.7	1503.0	1502.1	1349.6	1175.5	1046.3	934.7	847.8	757.3
50°	711.1	888.9	1138.0	1375.5	1395.4	1267.5	1101.9	974.0	869.8	778.6	705.8
52.5°	635.7	782.2	1006.2	1233.9	1290.6	1179.8	1019.2	901.0	799.9	716.0	653.7
55°	537.2	650.6	820.7	1033.7	1119.6	1041.4	898.9	788.5	706.5	636.0	582.4
57.5°	454.4	539.5	676.0	847.5	947.5	898.3	780.7	691.1	620.9	557.1	514.8
60°	402.3	472.0	587.8	731.1	841.4	806.9	706.5	623.0	563.2	508.1	468.2
62.5°	353.3	413.2	512.4	628.7	729.8	715.6	633.6	563.5	511.1	460.9	427.1
65°	284.3	328.0	405.4	496.6	577.8	584.7	525.7	478.2	431.4	391.6	361.7
67.5°	226.4	254.9	309.4	386.2	447.1	468.8	432.8	396.5	359.4	328.6	302.7
70°	190.8	213.8	253.6	315.7	371.7	394.6	374.0	345.6	313.4	288.1	265.9
72.5°	154.6	177.0	206.4	252.0	299.9	324.8	317.6	297.2	271.1	250.1	229.1
75°	116.5	123.4	143.3	174.0	211.5	233.0	238.3	227.6	206.9	190.8	178.5
77.5°	86.1	90.3	99.8	115.9	140.4	159.5	167.4	166.1	151.9	142.5	131.0
80°	69.0	71.3	75.9	82.8	101.2	120.3	125.7	125.7	115.7	111.9	100.4
82.5°	52.4	54.1	56.9	60.7	69.3	86.0	92.0	93.2	86.9	81.8	72.8
85°	29.9	29.1	30.7	33.0	34.5	39.1	48.3	49.8	48.3	42.1	39.8
87.5°	15.1	15.2	14.7	13.5	13.4	13.3	15.7	18.1	16.3	15.2	14.6
90°	23.4	20.9	18.3	15.3	11.9	8.4	4.9	1.4	4.9	8.4	11.9
92.5°	30.5	29.2	27.9	27.5	27.8	28.1	28.4	28.7	28.4	28.1	27.8
95°	51.0	48.8	46.6	50.7	61.2	71.6	82.0	92.4	82.0	71.6	61.2
97.5°	64.0	58.9	53.8	65.9	95.3	124.7	154.1	183.5	154.1	124.7	95.3
100°	70.3	64.9	59.6	78.5	121.8	165.1	208.4	251.7	208.4	165.1	121.8
102.5°	173.2	218.2	263.1	290.2	299.3	308.5	317.7	326.8	317.7	308.5	299.3
105°	259.3	345.6	431.9	470.3	460.8	451.3	441.8	432.4	441.8	451.3	460.8
107.5°	328.4	431.9	535.4	583.3	575.6	568.0	560.3	552.7	560.3	568.0	575.6
110°	431.6	522.9	614.2	656.6	650.0	643.3	636.7	630.1	636.7	643.3	650.0



TEST NUMBER: P331861

CATALOG NUMBER: S122RDIW-S1005D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	672.9	695.5	718.0	726.4	720.5	714.6	708.7	702.9	708.7	714.6	720.5
115°	861.7	853.8	845.9	839.3	833.9	828.5	823.2	817.8	823.2	828.5	833.9
117.5°	961.1	955.6	950.2	944.5	938.5	932.5	926.5	920.5	926.5	932.5	938.5
120°	1031.1	1025.4	1019.7	1014.5	1009.8	1005.0	1000.3	995.6	1000.3	1005.0	1009.8
122.5°	1097.2	1091.0	1084.9	1079.3	1074.3	1069.3	1064.3	1059.3	1064.3	1069.3	1074.3
125°	1189.8	1183.8	1177.8	1172.7	1168.6	1164.5	1160.4	1156.3	1160.4	1164.5	1168.6
127.5°	1275.9	1271.4	1266.9	1262.4	1257.8	1253.3	1248.7	1244.2	1248.7	1253.3	1257.8
130°	1331.4	1327.9	1324.4	1320.2	1315.1	1310.0	1305.0	1299.9	1305.0	1310.0	1315.1
132.5°	1384.8	1381.4	1377.9	1374.0	1369.7	1365.4	1361.1	1356.8	1361.1	1365.4	1369.7
135°	1460.6	1457.8	1454.9	1451.0	1445.9	1440.9	1435.8	1430.8	1435.8	1440.9	1445.9
137.5°	1529.6	1526.3	1523.1	1519.7	1516.2	1512.7	1509.1	1505.6	1509.1	1512.7	1516.2
140°	1574.6	1571.1	1567.6	1564.6	1562.1	1559.6	1557.0	1554.5	1557.0	1559.6	1562.1
142.5°	1615.7	1611.7	1607.7	1604.6	1602.3	1600.0	1597.7	1595.5	1597.7	1600.0	1602.3
145°	1671.8	1666.4	1661.0	1658.5	1658.8	1659.1	1659.4	1659.8	1659.4	1659.1	1658.8
147.5°	1723.7	1718.3	1713.0	1711.0	1712.2	1713.4	1714.6	1715.8	1714.6	1713.4	1712.2
150°	1754.9	1749.8	1744.8	1743.3	1745.6	1747.8	1750.0	1752.2	1750.0	1747.8	1745.6
152.5°	1783.8	1779.0	1774.2	1773.1	1775.5	1778.0	1780.5	1782.9	1780.5	1778.0	1775.5
155°	1824.3	1820.5	1816.7	1816.2	1819.0	1821.9	1824.7	1827.6	1824.7	1821.9	1819.0
157.5°	1858.4	1855.7	1853.1	1853.0	1855.4	1857.8	1860.2	1862.6	1860.2	1857.8	1855.4
160°	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1881.1	1879.3	1877.4
162.5°	1896.8	1895.2	1893.5	1893.7	1895.6	1897.5	1899.4	1901.2	1899.4	1897.5	1895.6
165°	1919.5	1918.6	1917.7	1918.1	1920.0	1921.9	1923.8	1925.7	1923.8	1921.9	1920.0
167.5°	1937.6	1936.7	1935.8	1936.3	1938.2	1940.1	1942.0	1943.9	1942.0	1940.1	1938.2
170°	1947.2	1946.6	1945.9	1946.6	1948.5	1950.4	1952.3	1954.2	1952.3	1950.4	1948.5
172.5°	1954.0	1953.4	1952.8	1953.4	1955.3	1957.2	1959.1	1961.0	1959.1	1957.2	1955.3
175°	1961.4	1960.8	1960.2	1961.0	1963.2	1965.4	1967.6	1969.8	1967.6	1965.4	1963.2
177.5°	1963.9	1963.6	1963.4	1964.1	1965.9	1967.7	1969.5	1971.2	1969.5	1967.7	1965.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331861

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2174.2	2169.9	2161.9	2149.6	2142.3	2129.4	2120.8	2125.7	2127.0	2125.7	2124.5
5°	2115.8	2099.7	2077.5	2056.0	2036.1	2014.6	2002.4	1997.0	1986.3	1980.1	1977.1
7.5°	2045.1	2017.4	1986.0	1948.6	1916.8	1883.6	1866.6	1858.1	1836.2	1824.3	1813.8
10°	1992.4	1948.7	1917.3	1868.3	1838.4	1794.7	1764.8	1765.6	1735.7	1718.8	1706.6
12.5°	1934.2	1886.2	1833.9	1789.8	1748.3	1713.2	1677.1	1662.6	1630.9	1614.6	1581.5
15°	1837.6	1781.7	1726.5	1666.7	1624.6	1570.2	1518.1	1454.5	1403.1	1358.7	1346.4
17.5°	1732.2	1662.9	1607.6	1537.4	1465.2	1373.7	1313.3	1276.4	1245.4	1222.0	1204.5
20°	1659.8	1589.3	1530.3	1424.6	1327.2	1265.2	1220.7	1192.4	1160.2	1134.9	1121.1
22.5°	1583.8	1510.2	1429.8	1311.8	1235.9	1186.1	1146.5	1113.9	1092.1	1072.4	1059.8
25°	1475.9	1395.4	1262.9	1181.6	1120.3	1068.2	1040.6	1020.7	997.7	970.9	958.7
27.5°	1361.9	1233.9	1138.7	1078.3	1019.8	985.9	961.1	931.4	910.8	898.7	886.0
30°	1276.7	1148.7	1074.4	1008.5	967.1	929.5	900.4	883.6	863.6	842.9	834.5
32.5°	1181.6	1079.4	1008.2	953.3	911.3	879.3	856.3	829.0	814.6	801.9	784.2
35°	1063.6	986.2	921.1	876.7	836.8	810.8	783.9	767.8	741.8	731.1	724.2
37.5°	963.7	896.6	848.0	801.1	769.5	740.7	724.3	698.7	687.4	672.5	658.0
40°	907.3	841.4	794.7	756.3	721.1	699.6	678.9	658.3	641.4	634.5	616.9
42.5°	849.7	796.0	749.3	707.3	683.7	661.0	634.8	619.6	602.2	591.0	580.1
45°	770.1	722.6	682.8	648.3	622.2	598.5	581.6	556.3	546.4	524.2	515.0
47.5°	700.3	656.1	618.1	585.3	559.9	544.4	519.7	499.9	484.0	470.4	458.6
50°	650.6	613.8	577.0	547.9	524.9	502.7	477.4	467.4	442.9	436.0	429.1
52.5°	605.2	570.3	536.6	508.1	485.1	463.5	441.2	428.2	411.7	404.8	399.7
55°	541.8	508.1	475.9	450.6	427.6	405.4	391.6	375.5	367.8	362.5	356.3
57.5°	478.0	447.7	423.0	397.4	374.3	356.6	340.7	331.0	323.1	316.0	308.7
60°	437.6	408.4	386.2	362.5	338.7	324.1	311.9	300.4	291.2	280.5	277.4
62.5°	394.6	369.2	348.8	325.7	305.0	291.7	280.0	269.1	258.1	242.5	238.2
65°	335.6	315.7	294.3	275.1	256.7	243.7	226.8	214.6	210.0	208.4	207.7
67.5°	282.3	263.5	245.1	225.4	208.7	196.6	188.1	186.2	183.0	182.1	179.9
70°	246.8	229.1	210.7	192.3	176.3	174.0	170.9	167.8	164.0	162.5	160.9
72.5°	214.9	196.6	178.2	163.5	156.6	153.7	150.7	147.6	145.0	143.5	142.5
75°	164.8	147.9	135.6	130.3	126.4	124.1	119.5	117.2	115.7	113.4	112.6
77.5°	118.6	109.1	103.5	100.1	96.1	93.6	91.0	88.7	87.1	86.6	85.4
80°	90.4	85.8	82.0	77.4	75.9	72.8	72.0	69.7	70.5	68.2	68.2
82.5°	70.2	64.4	61.2	59.0	57.5	55.0	54.3	53.2	53.3	51.6	51.6
85°	36.0	34.5	33.0	31.4	31.4	29.1	29.9	29.1	29.1	27.6	26.8
87.5°	14.7	14.7	14.0	14.5	15.0	14.9	15.2	14.9	15.2	15.5	15.1
90°	15.3	18.3	20.9	23.4	25.9	28.4	30.0	31.6	33.2	34.8	35.9
92.5°	27.5	27.9	29.2	30.5	31.7	33.0	33.8	34.6	35.5	36.3	36.9
95°	50.7	46.6	48.8	51.0	53.3	55.5	57.0	58.6	60.2	61.8	62.4
97.5°	65.9	53.8	58.9	64.0	69.1	74.2	75.5	76.8	78.0	79.3	80.1
100°	78.5	59.6	64.9	70.3	75.7	81.1	83.6	86.1	88.7	91.2	92.8
102.5°	290.2	263.1	218.2	173.2	128.3	83.3	86.6	89.9	93.2	96.5	98.6
105°	470.3	431.9	345.6	259.3	173.0	86.8	90.2	93.7	97.2	100.7	103.0
107.5°	583.3	535.4	431.9	328.4	224.9	121.5	117.9	114.4	110.8	107.3	106.2
110°	656.6	614.2	522.9	431.6	340.2	248.9	217.3	185.7	154.1	122.5	107.3



TEST NUMBER: P331861

CATALOG NUMBER: S122RDIW-S1005D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	726.4	718.0	695.5	672.9	650.3	627.8	512.5	397.2	281.9	166.6	109.4
115°	839.3	845.9	853.8	861.7	869.6	877.5	731.2	584.9	438.5	292.2	207.6
117.5°	944.5	950.2	955.6	961.1	966.5	972.0	936.6	901.2	865.8	830.4	775.3
120°	1014.5	1019.7	1025.4	1031.1	1036.8	1042.5	1046.3	1050.1	1053.9	1057.7	1038.2
122.5°	1079.3	1084.9	1091.0	1097.2	1103.4	1109.6	1111.9	1114.2	1116.5	1118.7	1115.7
125°	1172.7	1177.8	1183.8	1189.8	1195.8	1201.8	1204.0	1206.2	1208.4	1210.6	1212.2
127.5°	1262.4	1266.9	1271.4	1275.9	1280.4	1284.9	1288.1	1291.3	1294.5	1297.7	1299.5
130°	1320.2	1324.4	1327.9	1331.4	1334.8	1338.3	1341.8	1345.3	1348.8	1352.2	1353.8
132.5°	1374.0	1377.9	1381.4	1384.8	1388.3	1391.8	1394.8	1397.7	1400.7	1403.7	1405.0
135°	1451.0	1454.9	1457.8	1460.6	1463.5	1466.3	1469.5	1472.6	1475.8	1479.0	1480.2
137.5°	1519.7	1523.1	1526.3	1529.6	1532.8	1536.0	1539.1	1542.2	1545.3	1548.4	1549.4
140°	1564.6	1567.6	1571.1	1574.6	1578.1	1581.5	1584.4	1587.2	1590.1	1592.9	1593.5
142.5°	1604.6	1607.7	1611.7	1615.7	1619.6	1623.6	1626.2	1628.8	1631.4	1634.0	1634.5
145°	1658.5	1661.0	1666.4	1671.8	1677.1	1682.5	1684.7	1686.9	1689.1	1691.4	1691.7
147.5°	1711.0	1713.0	1718.3	1723.7	1729.0	1734.3	1735.9	1737.6	1739.2	1740.9	1741.0
150°	1743.3	1744.8	1749.8	1754.9	1759.9	1765.0	1766.9	1768.8	1770.7	1772.6	1772.7
152.5°	1773.1	1774.2	1779.0	1783.8	1788.6	1793.4	1795.3	1797.2	1799.1	1801.0	1800.9
155°	1816.2	1816.7	1820.5	1824.3	1828.1	1831.8	1833.7	1835.6	1837.5	1839.4	1839.1
157.5°	1853.0	1853.1	1855.7	1858.4	1861.0	1863.7	1865.9	1868.0	1870.1	1872.3	1872.1
160°	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1884.9	1886.8	1888.7	1890.6	1890.5
162.5°	1893.7	1893.5	1895.2	1896.8	1898.5	1900.1	1902.3	1904.4	1906.6	1908.7	1908.4
165°	1918.1	1917.7	1918.6	1919.5	1920.5	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3
167.5°	1936.3	1935.8	1936.7	1937.6	1938.5	1939.4	1941.6	1943.8	1946.0	1948.2	1947.9
170°	1946.6	1945.9	1946.6	1947.2	1947.8	1948.5	1950.7	1952.9	1955.1	1957.3	1957.0
172.5°	1953.4	1952.8	1953.4	1954.0	1954.7	1955.3	1957.5	1959.7	1961.9	1964.1	1963.8
175°	1961.0	1960.2	1960.8	1961.4	1962.1	1962.7	1964.9	1967.1	1969.3	1971.5	1971.1
177.5°	1964.1	1963.4	1963.6	1963.9	1964.1	1964.4	1966.2	1967.9	1969.7	1971.5	1971.2
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331861

CATALOG NUMBER: S122RDIW-S1005D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2117.8	2119.0	2117.2	2118.4	2117.2	2119.0	2117.8	2124.5	2125.7	2127.0	2125.7
5°	1973.2	1964.0	1962.5	1960.2	1962.5	1964.0	1973.2	1977.1	1980.1	1986.3	1997.0
7.5°	1800.7	1799.3	1795.5	1790.1	1795.5	1799.3	1800.7	1813.8	1824.3	1836.2	1858.1
10°	1689.7	1685.9	1685.1	1679.7	1685.1	1685.9	1689.7	1706.6	1718.8	1735.7	1765.6
12.5°	1559.7	1535.1	1532.5	1519.1	1532.5	1535.1	1559.7	1581.5	1614.6	1630.9	1662.6
15°	1328.0	1323.4	1308.1	1298.1	1308.1	1323.4	1328.0	1346.4	1358.7	1403.1	1454.5
17.5°	1195.6	1180.6	1175.8	1173.7	1175.8	1180.6	1195.6	1204.5	1222.0	1245.4	1276.4
20°	1110.4	1096.6	1094.3	1092.8	1094.3	1096.6	1110.4	1121.1	1134.9	1160.2	1192.4
22.5°	1051.5	1037.1	1031.1	1026.5	1031.1	1037.1	1051.5	1059.8	1072.4	1092.1	1113.9
25°	951.0	945.6	942.6	941.0	942.6	945.6	951.0	958.7	970.9	997.7	1020.7
27.5°	872.4	860.6	858.3	854.3	858.3	860.6	872.4	886.0	898.7	910.8	931.4
30°	827.6	823.8	818.4	813.8	818.4	823.8	827.6	834.5	842.9	863.6	883.6
32.5°	774.9	771.7	766.9	764.8	766.9	771.7	774.9	784.2	801.9	814.6	829.0
35°	716.5	705.8	701.2	694.3	701.2	705.8	716.5	724.2	731.1	741.8	767.8
37.5°	654.7	649.1	642.6	644.9	642.6	649.1	654.7	658.0	672.5	687.4	698.7
40°	606.9	603.1	601.6	600.8	601.6	603.1	606.9	616.9	634.5	641.4	658.3
42.5°	568.9	558.3	554.3	554.2	554.3	558.3	568.9	580.1	591.0	602.2	619.6
45°	511.1	501.2	494.3	495.0	494.3	501.2	511.1	515.0	524.2	546.4	556.3
47.5°	452.0	451.7	447.4	448.7	447.4	451.7	452.0	458.6	470.4	484.0	499.9
50°	423.8	419.2	416.1	416.9	416.1	419.2	423.8	429.1	436.0	442.9	467.4
52.5°	396.8	392.8	390.4	393.6	390.4	392.8	396.8	399.7	404.8	411.7	428.2
55°	352.5	347.9	347.1	346.4	347.1	347.9	352.5	356.3	362.5	367.8	375.5
57.5°	303.0	299.9	295.3	293.3	295.3	299.9	303.0	308.7	316.0	323.1	331.0
60°	267.4	261.3	253.6	252.9	253.6	261.3	267.4	277.4	280.5	291.2	300.4
62.5°	234.9	233.7	232.2	232.0	232.2	233.7	234.9	238.2	242.5	258.1	269.1
65°	206.1	205.4	206.1	206.9	206.1	205.4	206.1	207.7	208.4	210.0	214.6
67.5°	179.6	178.2	176.9	177.5	176.9	178.2	179.6	179.9	182.1	183.0	186.2
70°	159.4	158.6	157.9	157.9	157.9	158.6	159.4	160.9	162.5	164.0	167.8
72.5°	139.8	139.6	138.9	138.2	138.9	139.6	139.8	142.5	143.5	145.0	147.6
75°	111.9	110.3	110.3	110.3	110.3	110.3	111.9	112.6	113.4	115.7	117.2
77.5°	85.2	84.4	83.7	83.1	83.7	84.4	85.2	85.4	86.6	87.1	88.7
80°	67.4	66.7	65.9	65.9	65.9	66.7	67.4	68.2	68.2	70.5	69.7
82.5°	51.5	50.7	50.6	50.0	50.6	50.7	51.5	51.6	51.6	53.3	53.2
85°	27.6	28.4	27.6	29.1	27.6	28.4	27.6	26.8	27.6	29.1	29.1
87.5°	15.3	14.8	15.5	15.0	15.5	14.8	15.3	15.1	15.5	15.2	14.9
90°	36.5	37.1	37.8	38.4	37.8	37.1	36.5	35.9	34.8	33.2	31.6
92.5°	37.3	37.6	38.0	38.4	38.0	37.6	37.3	36.9	36.3	35.5	34.6
95°	62.1	61.8	61.5	61.2	61.5	61.8	62.1	62.4	61.8	60.2	58.6
97.5°	80.5	80.9	81.3	81.6	81.3	80.9	80.5	80.1	79.3	78.0	76.8
100°	93.4	94.0	94.7	95.3	94.7	94.0	93.4	92.8	91.2	88.7	86.1
102.5°	99.5	100.3	101.2	102.1	101.2	100.3	99.5	98.6	96.5	93.2	89.9
105°	104.3	105.6	106.8	108.1	106.8	105.6	104.3	103.0	100.7	97.2	93.7
107.5°	107.4	108.7	110.0	111.2	110.0	108.7	107.4	106.2	107.3	110.8	114.4
110°	108.6	109.8	111.1	112.4	111.1	109.8	108.6	107.3	122.5	154.1	185.7



TEST NUMBER: P331861

CATALOG NUMBER: S122RDIW-S1005D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	110.5	111.5	112.5	113.5	112.5	111.5	110.5	109.4	166.6	281.9	397.2
115°	184.9	162.1	139.4	116.6	139.4	162.1	184.9	207.6	292.2	438.5	584.9
117.5°	700.5	625.7	550.9	476.2	550.9	625.7	700.5	775.3	830.4	865.8	901.2
120°	995.6	952.9	910.2	867.6	910.2	952.9	995.6	1038.2	1057.7	1053.9	1050.1
122.5°	1107.4	1099.2	1090.9	1082.6	1090.9	1099.2	1107.4	1115.7	1118.7	1116.5	1114.2
125°	1213.2	1214.1	1215.1	1216.0	1215.1	1214.1	1213.2	1212.2	1210.6	1208.4	1206.2
127.5°	1299.6	1299.8	1300.0	1300.2	1300.0	1299.8	1299.6	1299.5	1297.7	1294.5	1291.3
130°	1353.5	1353.2	1352.9	1352.5	1352.9	1353.2	1353.5	1353.8	1352.2	1348.8	1345.3
132.5°	1404.7	1404.4	1404.1	1403.7	1404.1	1404.4	1404.7	1405.0	1403.7	1400.7	1397.7
135°	1479.6	1479.0	1478.3	1477.7	1478.3	1479.0	1479.6	1480.2	1479.0	1475.8	1472.6
137.5°	1548.3	1547.3	1546.2	1545.1	1546.2	1547.3	1548.3	1549.4	1548.4	1545.3	1542.2
140°	1592.0	1590.4	1588.8	1587.2	1588.8	1590.4	1592.0	1593.5	1592.9	1590.1	1587.2
142.5°	1632.9	1631.3	1629.8	1628.2	1629.8	1631.3	1632.9	1634.5	1634.0	1631.4	1628.8
145°	1690.1	1688.5	1686.9	1685.4	1686.9	1688.5	1690.1	1691.7	1691.4	1689.1	1686.9
147.5°	1739.7	1738.4	1737.0	1735.7	1737.0	1738.4	1739.7	1741.0	1740.9	1739.2	1737.6
150°	1771.2	1769.6	1768.0	1766.4	1768.0	1769.6	1771.2	1772.7	1772.6	1770.7	1768.8
152.5°	1798.8	1796.8	1794.7	1792.6	1794.7	1796.8	1798.8	1800.9	1801.0	1799.1	1797.2
155°	1836.6	1834.1	1831.5	1829.0	1831.5	1834.1	1836.6	1839.1	1839.4	1837.5	1835.6
157.5°	1869.7	1867.2	1864.7	1862.3	1864.7	1867.2	1869.7	1872.1	1872.3	1870.1	1868.0
160°	1888.3	1886.0	1883.8	1881.6	1883.8	1886.0	1888.3	1890.5	1890.6	1888.7	1886.8
162.5°	1905.7	1903.0	1900.3	1897.6	1900.3	1903.0	1905.7	1908.4	1908.7	1906.6	1904.4
165°	1928.1	1925.9	1923.7	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3	1928.1	1925.9
167.5°	1945.1	1942.2	1939.4	1936.5	1939.4	1942.2	1945.1	1947.9	1948.2	1946.0	1943.8
170°	1954.2	1951.3	1948.5	1945.6	1948.5	1951.3	1954.2	1957.0	1957.3	1955.1	1952.9
172.5°	1961.0	1958.1	1955.3	1952.4	1955.3	1958.1	1961.0	1963.8	1964.1	1961.9	1959.7
175°	1967.9	1964.7	1961.6	1958.4	1961.6	1964.7	1967.9	1971.1	1971.5	1969.3	1967.1
177.5°	1968.9	1966.7	1964.4	1962.1	1964.4	1966.7	1968.9	1971.2	1971.5	1969.7	1967.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331861

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2120.8	2129.4	2142.3	2149.6	2161.9	2169.9	2174.2	2182.1	2186.4	2201.8	2217.7
5°	2002.4	2014.6	2036.1	2056.0	2077.5	2099.7	2115.8	2134.2	2151.0	2180.1	2210.8
7.5°	1866.6	1883.6	1916.8	1948.6	1986.0	2017.4	2045.1	2076.5	2104.6	2146.3	2189.8
10°	1764.8	1794.7	1838.4	1868.3	1917.3	1948.7	1992.4	2026.9	2066.0	2121.1	2170.2
12.5°	1677.1	1713.2	1748.3	1789.8	1833.9	1886.2	1934.2	1978.5	2024.9	2081.9	2139.5
15°	1518.1	1570.2	1624.6	1666.7	1726.5	1781.7	1837.6	1897.4	1954.1	2022.3	2097.4
17.5°	1313.3	1373.7	1465.2	1537.4	1607.6	1662.9	1732.2	1804.5	1871.3	1953.6	2037.2
20°	1220.7	1265.2	1327.2	1424.6	1530.3	1589.3	1659.8	1739.5	1816.1	1905.8	1995.5
22.5°	1146.5	1186.1	1235.9	1311.8	1429.8	1510.2	1583.8	1664.7	1753.6	1845.1	1944.6
25°	1040.6	1068.2	1120.3	1181.6	1262.9	1395.4	1475.9	1557.1	1653.7	1751.8	1865.2
27.5°	961.1	985.9	1019.8	1078.3	1138.7	1233.9	1361.9	1450.5	1546.7	1657.1	1774.8
30°	900.4	929.5	967.1	1008.5	1074.4	1148.7	1276.7	1379.4	1474.4	1587.8	1713.5
32.5°	856.3	879.3	911.3	953.3	1008.2	1079.4	1181.6	1306.4	1399.0	1518.5	1649.7
35°	783.9	810.8	836.8	876.7	921.1	986.2	1063.6	1197.0	1288.9	1406.9	1538.7
37.5°	724.3	740.7	769.5	801.1	848.0	896.6	963.7	1083.3	1182.7	1298.6	1433.5
40°	678.9	699.6	721.1	756.3	794.7	841.4	907.3	996.2	1110.4	1223.8	1355.6
42.5°	634.8	661.0	683.7	707.3	749.3	796.0	849.7	925.1	1041.7	1149.0	1277.1
45°	581.6	598.5	622.2	648.3	682.8	722.6	770.1	836.0	947.9	1040.6	1161.0
47.5°	519.7	544.4	559.9	585.3	618.1	656.1	700.3	757.3	847.8	934.7	1046.3
50°	477.4	502.7	524.9	547.9	577.0	613.8	650.6	705.8	778.6	869.8	974.0
52.5°	441.2	463.5	485.1	508.1	536.6	570.3	605.2	653.7	716.0	799.9	901.0
55°	391.6	405.4	427.6	450.6	475.9	508.1	541.8	582.4	636.0	706.5	788.5
57.5°	340.7	356.6	374.3	397.4	423.0	447.7	478.0	514.8	557.1	620.9	691.1
60°	311.9	324.1	338.7	362.5	386.2	408.4	437.6	468.2	508.1	563.2	623.0
62.5°	280.0	291.7	305.0	325.7	348.8	369.2	394.6	427.1	460.9	511.1	563.5
65°	226.8	243.7	256.7	275.1	294.3	315.7	335.6	361.7	391.6	431.4	478.2
67.5°	188.1	196.6	208.7	225.4	245.1	263.5	282.3	302.7	328.6	359.4	396.5
70°	170.9	174.0	176.3	192.3	210.7	229.1	246.8	265.9	288.1	313.4	345.6
72.5°	150.7	153.7	156.6	163.5	178.2	196.6	214.9	229.1	250.1	271.1	297.2
75°	119.5	124.1	126.4	130.3	135.6	147.9	164.8	178.5	190.8	206.9	227.6
77.5°	91.0	93.6	96.1	100.1	103.5	109.1	118.6	131.0	142.5	151.9	166.1
80°	72.0	72.8	75.9	77.4	82.0	85.8	90.4	100.4	111.9	115.7	125.7
82.5°	54.3	55.0	57.5	59.0	61.2	64.4	70.2	72.8	81.8	86.9	93.2
85°	29.9	29.1	31.4	31.4	33.0	34.5	36.0	39.8	42.1	48.3	49.8
87.5°	15.2	14.9	15.0	14.5	14.0	14.7	14.7	14.6	15.2	16.3	18.1
90°	30.0	28.4	25.9	23.4	20.9	18.3	15.3	11.9	8.4	4.9	1.4
92.5°	33.8	33.0	31.7	30.5	29.2	27.9	27.5	27.8	28.1	28.4	28.7
95°	57.0	55.5	53.3	51.0	48.8	46.6	50.7	61.2	71.6	82.0	92.4
97.5°	75.5	74.2	69.1	64.0	58.9	53.8	65.9	95.3	124.7	154.1	183.5
100°	83.6	81.1	75.7	70.3	64.9	59.6	78.5	121.8	165.1	208.4	251.7
102.5°	86.6	83.3	128.3	173.2	218.2	263.1	290.2	299.3	308.5	317.7	326.8
105°	90.2	86.8	173.0	259.3	345.6	431.9	470.3	460.8	451.3	441.8	432.4
107.5°	117.9	121.5	224.9	328.4	431.9	535.4	583.3	575.6	568.0	560.3	552.7
110°	217.3	248.9	340.2	431.6	522.9	614.2	656.6	650.0	643.3	636.7	630.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	512.5	627.8	650.3	672.9	695.5	718.0	726.4	720.5	714.6	708.7	702.9
115°	731.2	877.5	869.6	861.7	853.8	845.9	839.3	833.9	828.5	823.2	817.8
117.5°	936.6	972.0	966.5	961.1	955.6	950.2	944.5	938.5	932.5	926.5	920.5
120°	1046.3	1042.5	1036.8	1031.1	1025.4	1019.7	1014.5	1009.8	1005.0	1000.3	995.6
122.5°	1111.9	1109.6	1103.4	1097.2	1091.0	1084.9	1079.3	1074.3	1069.3	1064.3	1059.3
125°	1204.0	1201.8	1195.8	1189.8	1183.8	1177.8	1172.7	1168.6	1164.5	1160.4	1156.3
127.5°	1288.1	1284.9	1280.4	1275.9	1271.4	1266.9	1262.4	1257.8	1253.3	1248.7	1244.2
130°	1341.8	1338.3	1334.8	1331.4	1327.9	1324.4	1320.2	1315.1	1310.0	1305.0	1299.9
132.5°	1394.8	1391.8	1388.3	1384.8	1381.4	1377.9	1374.0	1369.7	1365.4	1361.1	1356.8
135°	1469.5	1466.3	1463.5	1460.6	1457.8	1454.9	1451.0	1445.9	1440.9	1435.8	1430.8
137.5°	1539.1	1536.0	1532.8	1529.6	1526.3	1523.1	1519.7	1516.2	1512.7	1509.1	1505.6
140°	1584.4	1581.5	1578.1	1574.6	1571.1	1567.6	1564.6	1562.1	1559.6	1557.0	1554.5
142.5°	1626.2	1623.6	1619.6	1615.7	1611.7	1607.7	1604.6	1602.3	1600.0	1597.7	1595.5
145°	1684.7	1682.5	1677.1	1671.8	1666.4	1661.0	1658.5	1658.8	1659.1	1659.4	1659.8
147.5°	1735.9	1734.3	1729.0	1723.7	1718.3	1713.0	1711.0	1712.2	1713.4	1714.6	1715.8
150°	1766.9	1765.0	1759.9	1754.9	1749.8	1744.8	1743.3	1745.6	1747.8	1750.0	1752.2
152.5°	1795.3	1793.4	1788.6	1783.8	1779.0	1774.2	1773.1	1775.5	1778.0	1780.5	1782.9
155°	1833.7	1831.8	1828.1	1824.3	1820.5	1816.7	1816.2	1819.0	1821.9	1824.7	1827.6
157.5°	1865.9	1863.7	1861.0	1858.4	1855.7	1853.1	1853.0	1855.4	1857.8	1860.2	1862.6
160°	1884.9	1883.0	1881.1	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0
162.5°	1902.3	1900.1	1898.5	1896.8	1895.2	1893.5	1893.7	1895.6	1897.5	1899.4	1901.2
165°	1923.7	1921.4	1920.5	1919.5	1918.6	1917.7	1918.1	1920.0	1921.9	1923.8	1925.7
167.5°	1941.6	1939.4	1938.5	1937.6	1936.7	1935.8	1936.3	1938.2	1940.1	1942.0	1943.9
170°	1950.7	1948.5	1947.8	1947.2	1946.6	1945.9	1946.6	1948.5	1950.4	1952.3	1954.2
172.5°	1957.5	1955.3	1954.7	1954.0	1953.4	1952.8	1953.4	1955.3	1957.2	1959.1	1961.0
175°	1964.9	1962.7	1962.1	1961.4	1960.8	1960.2	1961.0	1963.2	1965.4	1967.6	1969.8
177.5°	1966.2	1964.4	1964.1	1963.9	1963.6	1963.4	1964.1	1965.9	1967.7	1969.5	1971.2
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331861

CATALOG NUMBER: S122RDIW-S1005D1440U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2218.3	2220.1	2232.4	2237.9	2249.0	2253.2	2258.2	2256.9	2256.9	2259.4	2276.5
5°	2223.1	2238.4	2261.4	2283.6	2305.1	2323.4	2335.7	2348.0	2352.6	2374.8	2394.7
7.5°	2215.1	2243.3	2281.3	2315.2	2355.8	2387.5	2413.9	2437.6	2453.9	2486.2	2519.3
10°	2204.7	2244.5	2287.4	2331.1	2387.0	2429.2	2472.1	2505.1	2515.8	2564.1	2591.7
12.5°	2183.8	2237.2	2291.7	2348.3	2403.0	2461.1	2508.3	2541.2	2578.9	2622.3	2673.2
15°	2152.6	2213.9	2285.1	2357.9	2436.1	2506.6	2557.2	2614.6	2656.0	2703.5	2748.0
17.5°	2107.7	2186.6	2277.2	2361.5	2451.9	2527.6	2597.2	2652.3	2681.5	2708.6	2715.2
20°	2072.1	2157.2	2263.7	2363.3	2453.7	2541.1	2610.0	2656.0	2663.7	2664.4	2623.8
22.5°	2033.5	2129.6	2241.0	2343.1	2451.3	2548.4	2602.1	2621.7	2591.3	2539.4	2460.8
25°	1962.5	2073.6	2203.1	2319.6	2437.6	2529.6	2548.0	2513.5	2407.0	2295.1	2153.3
27.5°	1885.6	2010.5	2149.3	2278.8	2404.5	2461.5	2421.8	2297.5	2105.7	1938.9	1736.8
30°	1829.2	1969.4	2105.8	2250.6	2367.1	2391.6	2300.5	2117.3	1893.5	1642.2	1440.7
32.5°	1764.8	1911.8	2061.7	2211.4	2308.9	2285.0	2134.3	1908.9	1646.5	1399.4	1208.9
35°	1672.8	1824.6	1986.3	2136.5	2198.5	2095.1	1869.8	1576.3	1308.1	1077.4	946.4
37.5°	1566.6	1731.9	1900.0	2037.9	2033.5	1861.1	1554.2	1251.2	1025.8	889.4	796.0
40°	1491.2	1658.3	1839.9	1956.4	1906.6	1682.0	1349.5	1063.6	898.9	790.1	721.9
42.5°	1418.9	1586.6	1767.0	1859.5	1772.9	1496.9	1165.6	941.6	805.7	720.8	665.5
45°	1295.8	1472.8	1639.9	1691.2	1536.4	1232.2	942.6	780.1	689.7	626.8	588.5
47.5°	1175.5	1349.6	1502.1	1503.0	1293.7	999.3	795.1	675.1	597.9	549.3	521.4
50°	1101.9	1267.5	1395.4	1375.5	1138.0	888.9	711.1	607.7	543.3	505.8	476.6
52.5°	1019.2	1179.8	1290.6	1233.9	1006.2	782.2	635.7	548.8	495.5	462.8	436.8
55°	898.9	1041.4	1119.6	1033.7	820.7	650.6	537.2	469.0	429.1	401.5	379.3
57.5°	780.7	898.3	947.5	847.5	676.0	539.5	454.4	403.2	363.7	343.9	332.4
60°	706.5	806.9	841.4	731.1	587.8	472.0	402.3	354.8	325.7	312.7	301.2
62.5°	633.6	715.6	729.8	628.7	512.4	413.2	353.3	313.1	293.8	281.4	270.5
65°	525.7	584.7	577.8	496.6	405.4	328.0	284.3	259.8	245.2	227.6	208.4
67.5°	432.8	468.8	447.1	386.2	309.4	254.9	226.4	207.8	189.7	173.0	168.6
70°	374.0	394.6	371.7	315.7	253.6	213.8	190.8	168.6	157.9	154.0	147.1
72.5°	317.6	324.8	299.9	252.0	206.4	177.0	154.6	142.2	136.4	133.2	128.7
75°	238.3	233.0	211.5	174.0	143.3	123.4	116.5	111.9	108.0	105.0	102.7
77.5°	167.4	159.5	140.4	115.9	99.8	90.3	86.1	83.7	81.8	80.3	78.0
80°	125.7	120.3	101.2	82.8	75.9	71.3	69.0	65.9	65.9	64.4	62.1
82.5°	92.0	86.0	69.3	60.7	56.9	54.1	52.4	50.6	50.0	50.3	48.6
85°	48.3	39.1	34.5	33.0	30.7	29.1	29.9	28.4	28.4	28.4	27.6
87.5°	15.7	13.3	13.4	13.5	14.7	15.2	15.1	15.6	16.7	16.4	17.4
90°	4.9	8.4	11.9	15.3	18.3	20.9	23.4	25.9	28.4	30.0	31.6
92.5°	28.4	28.1	27.8	27.5	27.9	29.2	30.5	31.7	33.0	33.8	34.6
95°	82.0	71.6	61.2	50.7	46.6	48.8	51.0	53.3	55.5	57.0	58.6
97.5°	154.1	124.7	95.3	65.9	53.8	58.9	64.0	69.1	74.2	75.5	76.8
100°	208.4	165.1	121.8	78.5	59.6	64.9	70.3	75.7	81.1	83.6	86.1
102.5°	317.7	308.5	299.3	290.2	263.1	218.2	173.2	128.3	83.3	86.6	89.9
105°	441.8	451.3	460.8	470.3	431.9	345.6	259.3	173.0	86.8	90.2	93.7
107.5°	560.3	568.0	575.6	583.3	535.4	431.9	328.4	224.9	121.5	117.9	114.4
110°	636.7	643.3	650.0	656.6	614.2	522.9	431.6	340.2	248.9	217.3	185.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	708.7	714.6	720.5	726.4	718.0	695.5	672.9	650.3	627.8	512.5	397.2
115°	823.2	828.5	833.9	839.3	845.9	853.8	861.7	869.6	877.5	731.2	584.9
117.5°	926.5	932.5	938.5	944.5	950.2	955.6	961.1	966.5	972.0	936.6	901.2
120°	1000.3	1005.0	1009.8	1014.5	1019.7	1025.4	1031.1	1036.8	1042.5	1046.3	1050.1
122.5°	1064.3	1069.3	1074.3	1079.3	1084.9	1091.0	1097.2	1103.4	1109.6	1111.9	1114.2
125°	1160.4	1164.5	1168.6	1172.7	1177.8	1183.8	1189.8	1195.8	1201.8	1204.0	1206.2
127.5°	1248.7	1253.3	1257.8	1262.4	1266.9	1271.4	1275.9	1280.4	1284.9	1288.1	1291.3
130°	1305.0	1310.0	1315.1	1320.2	1324.4	1327.9	1331.4	1334.8	1338.3	1341.8	1345.3
132.5°	1361.1	1365.4	1369.7	1374.0	1377.9	1381.4	1384.8	1388.3	1391.8	1394.8	1397.7
135°	1435.8	1440.9	1445.9	1451.0	1454.9	1457.8	1460.6	1463.5	1466.3	1469.5	1472.6
137.5°	1509.1	1512.7	1516.2	1519.7	1523.1	1526.3	1529.6	1532.8	1536.0	1539.1	1542.2
140°	1557.0	1559.6	1562.1	1564.6	1567.6	1571.1	1574.6	1578.1	1581.5	1584.4	1587.2
142.5°	1597.7	1600.0	1602.3	1604.6	1607.7	1611.7	1615.7	1619.6	1623.6	1626.2	1628.8
145°	1659.4	1659.1	1658.8	1658.5	1661.0	1666.4	1671.8	1677.1	1682.5	1684.7	1686.9
147.5°	1714.6	1713.4	1712.2	1711.0	1713.0	1718.3	1723.7	1729.0	1734.3	1735.9	1737.6
150°	1750.0	1747.8	1745.6	1743.3	1744.8	1749.8	1754.9	1759.9	1765.0	1766.9	1768.8
152.5°	1780.5	1778.0	1775.5	1773.1	1774.2	1779.0	1783.8	1788.6	1793.4	1795.3	1797.2
155°	1824.7	1821.9	1819.0	1816.2	1816.7	1820.5	1824.3	1828.1	1831.8	1833.7	1835.6
157.5°	1860.2	1857.8	1855.4	1853.0	1853.1	1855.7	1858.4	1861.0	1863.7	1865.9	1868.0
160°	1881.1	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1884.9	1886.8
162.5°	1899.4	1897.5	1895.6	1893.7	1893.5	1895.2	1896.8	1898.5	1900.1	1902.3	1904.4
165°	1923.8	1921.9	1920.0	1918.1	1917.7	1918.6	1919.5	1920.5	1921.4	1923.7	1925.9
167.5°	1942.0	1940.1	1938.2	1936.3	1935.8	1936.7	1937.6	1938.5	1939.4	1941.6	1943.8
170°	1952.3	1950.4	1948.5	1946.6	1945.9	1946.6	1947.2	1947.8	1948.5	1950.7	1952.9
172.5°	1959.1	1957.2	1955.3	1953.4	1952.8	1953.4	1954.0	1954.7	1955.3	1957.5	1959.7
175°	1967.6	1965.4	1963.2	1961.0	1960.2	1960.8	1961.4	1962.1	1962.7	1964.9	1967.1
177.5°	1969.5	1967.7	1965.9	1964.1	1963.4	1963.6	1963.9	1964.1	1964.4	1966.2	1967.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2282.7	2290.6	2294.3	2294.3	2298.6	2296.8	2294.9
5°	2413.9	2428.4	2431.5	2445.3	2455.2	2452.2	2453.7
7.5°	2544.3	2567.7	2590.9	2601.5	2603.1	2609.3	2611.6
10°	2624.6	2643.8	2679.8	2674.4	2701.2	2716.6	2691.3
12.5°	2701.8	2727.7	2752.7	2759.6	2774.8	2779.7	2769.7
15°	2771.7	2785.5	2787.1	2783.2	2787.8	2784.0	2769.4
17.5°	2706.4	2684.1	2638.7	2617.2	2600.2	2575.1	2565.0
20°	2598.5	2532.6	2456.0	2425.4	2389.3	2318.8	2335.7
22.5°	2365.6	2290.5	2213.9	2124.4	2081.6	2014.8	2010.8
25°	2003.1	1873.6	1731.1	1631.5	1573.2	1506.6	1477.4
27.5°	1557.4	1394.4	1277.6	1218.4	1164.6	1111.8	1109.6
30°	1264.4	1141.8	1051.4	1000.8	967.8	945.6	950.2
32.5°	1065.8	981.8	920.8	878.8	854.4	837.7	837.4
35°	871.3	813.8	774.7	757.1	739.5	727.2	728.0
37.5°	745.6	711.1	689.4	669.9	658.9	652.9	649.5
40°	681.2	652.9	636.0	624.5	615.3	606.9	605.4
42.5°	630.4	606.9	590.1	581.0	572.4	566.5	564.9
45°	559.4	540.2	524.9	515.0	511.1	505.8	505.8
47.5°	497.6	478.8	466.8	460.6	454.0	450.4	450.3
50°	456.0	441.4	430.7	426.8	421.5	419.2	418.4
52.5°	418.6	407.7	400.0	397.4	395.1	392.2	392.7
55°	367.8	361.7	358.6	356.3	352.5	347.9	351.0
57.5°	325.1	319.9	311.6	304.4	300.9	297.6	298.9
60°	295.0	284.3	273.6	265.1	262.8	255.9	255.9
62.5°	257.0	242.0	228.8	224.1	221.8	218.6	217.9
65°	197.7	191.6	188.5	185.4	183.9	183.9	182.4
67.5°	163.8	161.4	158.0	157.2	155.7	155.3	154.8
70°	144.8	141.8	140.2	139.5	137.9	138.7	136.4
72.5°	126.4	124.0	123.7	121.7	120.8	120.9	119.2
75°	99.6	99.6	98.9	98.1	96.6	95.8	96.6
77.5°	76.6	76.8	75.4	75.3	75.1	75.3	74.5
80°	61.3	62.1	61.3	60.5	59.8	60.5	59.8
82.5°	48.4	47.4	47.2	47.1	46.9	46.4	46.3
85°	27.6	28.4	27.6	26.8	26.8	26.8	27.6
87.5°	17.1	17.4	17.6	17.7	17.8	18.0	17.5
90°	33.2	34.8	35.9	36.5	37.1	37.8	38.4
92.5°	35.5	36.3	36.9	37.3	37.6	38.0	38.4
95°	60.2	61.8	62.4	62.1	61.8	61.5	61.2
97.5°	78.0	79.3	80.1	80.5	80.9	81.3	81.6
100°	88.7	91.2	92.8	93.4	94.0	94.7	95.3
102.5°	93.2	96.5	98.6	99.5	100.3	101.2	102.1
105°	97.2	100.7	103.0	104.3	105.6	106.8	108.1
107.5°	110.8	107.3	106.2	107.4	108.7	110.0	111.2
110°	154.1	122.5	107.3	108.6	109.8	111.1	112.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	281.9	166.6	109.4	110.5	111.5	112.5	113.5
115°	438.5	292.2	207.6	184.9	162.1	139.4	116.6
117.5°	865.8	830.4	775.3	700.5	625.7	550.9	476.2
120°	1053.9	1057.7	1038.2	995.6	952.9	910.2	867.6
122.5°	1116.5	1118.7	1115.7	1107.4	1099.2	1090.9	1082.6
125°	1208.4	1210.6	1212.2	1213.2	1214.1	1215.1	1216.0
127.5°	1294.5	1297.7	1299.5	1299.6	1299.8	1300.0	1300.2
130°	1348.8	1352.2	1353.8	1353.5	1353.2	1352.9	1352.5
132.5°	1400.7	1403.7	1405.0	1404.7	1404.4	1404.1	1403.7
135°	1475.8	1479.0	1480.2	1479.6	1479.0	1478.3	1477.7
137.5°	1545.3	1548.4	1549.4	1548.3	1547.3	1546.2	1545.1
140°	1590.1	1592.9	1593.5	1592.0	1590.4	1588.8	1587.2
142.5°	1631.4	1634.0	1634.5	1632.9	1631.3	1629.8	1628.2
145°	1689.1	1691.4	1691.7	1690.1	1688.5	1686.9	1685.4
147.5°	1739.2	1740.9	1741.0	1739.7	1738.4	1737.0	1735.7
150°	1770.7	1772.6	1772.7	1771.2	1769.6	1768.0	1766.4
152.5°	1799.1	1801.0	1800.9	1798.8	1796.8	1794.7	1792.6
155°	1837.5	1839.4	1839.1	1836.6	1834.1	1831.5	1829.0
157.5°	1870.1	1872.3	1872.1	1869.7	1867.2	1864.7	1862.3
160°	1888.7	1890.6	1890.5	1888.3	1886.0	1883.8	1881.6
162.5°	1906.6	1908.7	1908.4	1905.7	1903.0	1900.3	1897.6
165°	1928.1	1930.3	1930.3	1928.1	1925.9	1923.7	1921.4
167.5°	1946.0	1948.2	1947.9	1945.1	1942.2	1939.4	1936.5
170°	1955.1	1957.3	1957.0	1954.2	1951.3	1948.5	1945.6
172.5°	1961.9	1964.1	1963.8	1961.0	1958.1	1955.3	1952.4
175°	1969.3	1971.5	1971.1	1967.9	1964.7	1961.6	1958.4
177.5°	1969.7	1971.5	1971.2	1968.9	1966.7	1964.4	1962.1
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5

(END OF REPORT)