

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: P331861-935

Luminaire Tested: **S122RDIW-S1005D1440U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331861-935  
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-S1005D1440U935-4F0-1E-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: 8245.3 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

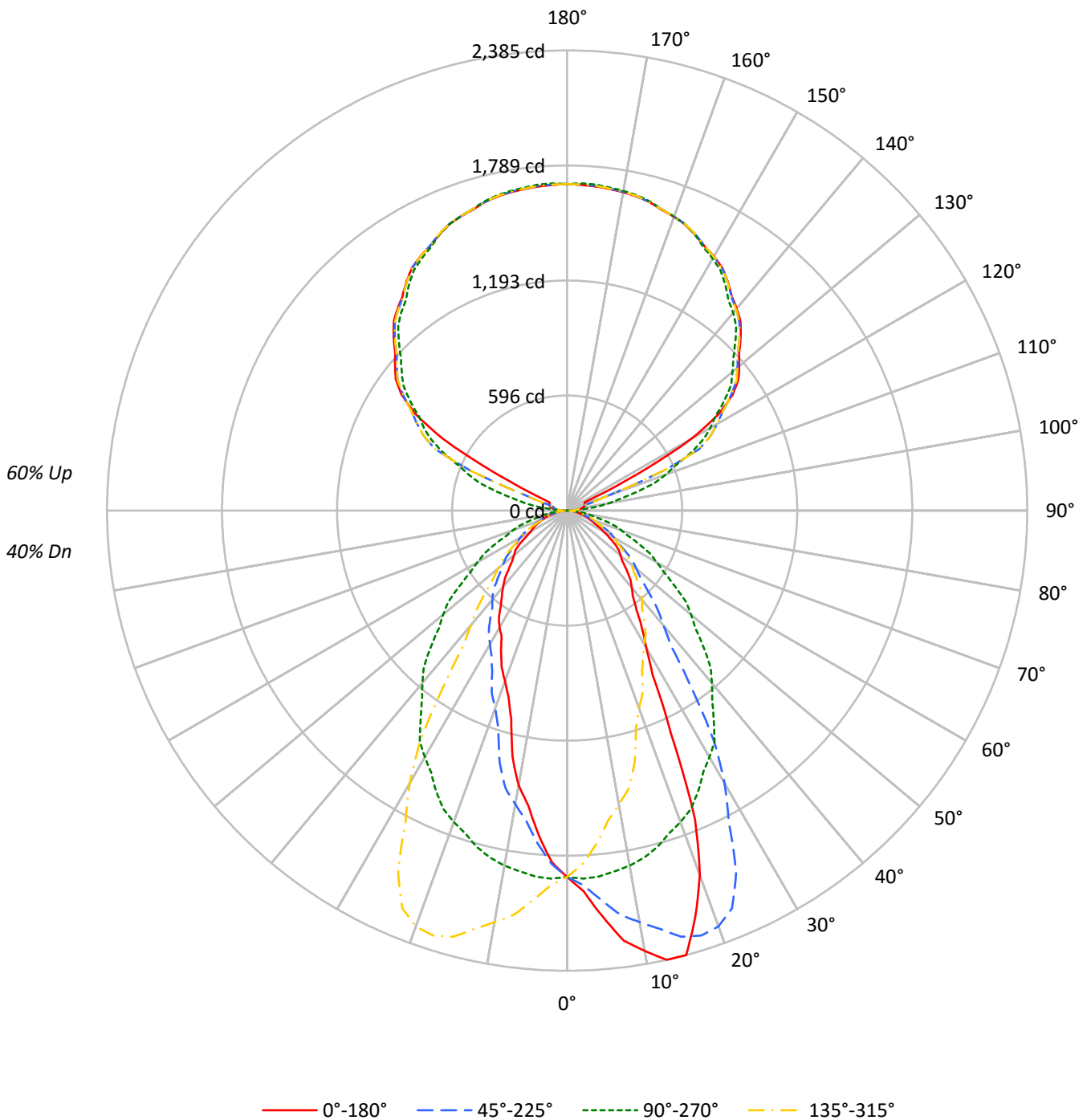
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	30658	30658	30658	30658
5°	34240	30851	27353	30851
10°	37990	30634	23710	30634
15°	39858	30186	18683	30186
20°	34553	29520	16167	29520
25°	22661	28609	14434	28609
30°	15252	27505	13064	27505
35°	12354	26112	11783	26112
40°	10985	24601	10903	24601
45°	9944	22825	9732	22825
50°	9048	21064	9018	21064
55°	8507	19111	8397	19111
60°	7114	17321	7030	17321
65°	5998	15729	6804	15729
70°	5542	14049	6420	14049
75°	5190	12227	5926	12227
80°	4788	10060	5272	10060
85°	4409	7947	4650	7947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	2.2
10°-20°	501.6	6.1
20°-30°	646.3	7.8
30°-40°	614.2	7.4
40°-50°	526.2	6.4
50°-60°	400.7	4.9
60°-70°	253.3	3.1
70°-80°	126.5	1.5
80°-90°	37.1	0.4
90°-100°	56.5	0.7
100°-110°	207.0	2.5
110°-120°	553.4	6.7
120°-130°	913.5	11.1
130°-140°	971.4	11.8
140°-150°	902.9	11.0
150°-160°	726.0	8.8
160°-170°	467.8	5.7
170°-180°	161.0	2.0
0°-30°	1327.9	16.1
0°-40°	1942.1	23.6
0°-60°	2869.0	34.8
0°-90°	3285.9	39.9
90°-120°	816.8	9.9
90°-150°	3604.6	43.7
90°-180°	4959.0	60.1
0°-180°	8245.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1899	1899	1899	1899	1899	
5°	2113	1904	1688	1904	2113	209
15°	2384	1806	1118	1806	2384	643
25°	1272	1606	810	1606	1272	604
35°	627	1325	598	1325	627	401
45°	436	1000	426	1000	436	337
55°	302	679	298	679	302	265
65°	157	412	178	412	157	160
75°	83	196	95	196	83	88
85°	24	43	25	43	24	26
90°	33	1	33	1	33	16
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	704	100	704	100	251
125°	1047	996	1047	996	1047	906
135°	1272	1232	1272	1232	1272	981
145°	1451	1429	1451	1429	1451	907
155°	1575	1574	1575	1574	1575	727
165°	1654	1658	1654	1658	1654	467
175°	1686	1696	1686	1696	1686	161
180°	1692	1692	1692	1692	1692	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1975.9	1977.5	1979.1	1975.4	1975.4	1972.2	1965.4	1960.1	1945.3	1943.2	1943.2
5°	2112.6	2111.3	2113.9	2105.4	2093.5	2090.9	2078.4	2061.8	2044.7	2025.6	2021.6
7.5°	2248.6	2246.6	2241.3	2239.9	2230.8	2210.8	2190.6	2169.1	2140.6	2112.8	2098.8
10°	2317.2	2339.0	2325.7	2302.7	2307.3	2276.3	2259.8	2231.5	2207.7	2166.1	2156.9
12.5°	2384.7	2393.3	2389.1	2376.0	2370.1	2348.5	2326.2	2301.6	2257.8	2220.4	2188.0
15°	2384.5	2397.0	2400.3	2396.3	2399.7	2398.3	2386.4	2366.0	2327.7	2286.8	2251.2
17.5°	2208.5	2217.2	2238.8	2253.4	2271.9	2311.0	2330.2	2337.8	2332.1	2308.8	2283.6
20°	2011.0	1996.5	2057.2	2088.3	2114.6	2180.6	2237.3	2259.1	2294.0	2293.4	2286.8
22.5°	1731.3	1734.7	1792.3	1829.1	1906.2	1972.1	2036.8	2118.7	2186.4	2231.1	2257.3
25°	1272.0	1297.2	1354.5	1404.7	1490.5	1613.2	1724.7	1854.0	1976.1	2072.4	2164.1
27.5°	955.4	957.3	1002.7	1049.0	1100.0	1200.6	1340.9	1495.4	1669.4	1813.0	1978.1
30°	818.1	814.2	833.3	861.7	905.3	983.1	1088.6	1240.4	1413.9	1630.3	1823.0
32.5°	721.0	721.3	735.6	756.6	792.8	845.3	917.7	1040.9	1204.9	1417.6	1643.6
35°	626.8	626.1	636.7	651.9	667.0	700.7	750.2	814.9	927.6	1126.3	1357.2
37.5°	559.2	562.1	567.3	576.8	593.6	612.3	642.0	685.4	765.8	883.2	1077.3
40°	521.2	522.5	529.8	537.7	547.6	562.1	586.5	621.6	680.3	774.0	915.8
42.5°	486.4	487.8	492.8	500.2	508.1	522.5	542.8	573.0	620.6	693.7	810.7
45°	435.5	435.5	440.1	443.4	451.9	465.1	481.6	506.7	539.7	593.8	671.7
47.5°	387.7	387.8	390.9	396.6	401.9	412.2	428.4	448.9	472.9	514.8	581.3
50°	360.2	360.9	362.9	367.5	370.8	380.0	392.6	410.4	435.5	467.8	523.2
52.5°	338.1	337.7	340.2	342.2	344.4	351.0	360.4	376.1	398.5	426.6	472.5
55°	302.2	299.5	303.5	306.8	308.8	311.4	316.7	326.6	345.7	369.5	403.8
57.5°	257.4	256.2	259.1	262.1	268.3	275.4	279.9	286.2	296.1	313.1	347.2
60°	220.3	220.3	226.3	228.3	235.6	244.8	254.0	259.3	269.2	280.4	305.5
62.5°	187.6	188.2	191.0	193.0	197.0	208.4	221.3	232.9	242.3	253.0	269.6
65°	157.0	158.3	158.3	159.6	162.3	165.0	170.2	179.4	196.0	211.1	223.7
67.5°	133.3	133.7	134.1	135.3	136.0	139.0	141.0	145.2	149.0	163.3	178.9
70°	117.4	119.4	118.7	120.1	120.7	122.1	124.7	126.7	132.6	136.0	145.2
72.5°	102.6	104.1	104.0	104.8	106.5	106.8	108.8	110.8	114.7	117.4	122.4
75°	83.2	82.5	83.2	84.5	85.2	85.8	85.8	88.4	90.4	93.0	96.3
77.5°	64.1	64.8	64.7	64.8	64.9	66.1	66.0	67.2	69.1	70.4	72.1
80°	51.5	52.1	51.5	52.1	52.8	53.5	52.8	53.5	55.4	56.7	56.7
82.5°	39.9	40.0	40.4	40.6	40.6	40.8	41.7	41.8	43.3	43.0	43.6
85°	23.8	23.1	23.1	23.1	23.8	24.5	23.8	23.8	24.5	24.5	24.5
87.5°	15.1	15.5	15.3	15.2	15.2	15.0	14.7	15.0	14.1	14.4	13.4
90°	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2	25.8	24.5	22.3
92.5°	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8	29.1	28.4	27.3
95°	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5	49.1	47.8	45.9
97.5°	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1	65.0	63.9	59.5
100°	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1	72.0	69.8	65.2
102.5°	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4	74.6	71.7	110.5
105°	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7	77.7	74.7	149.0
107.5°	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5	101.5	104.6	193.6
110°	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9	187.1	214.3	292.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0	441.3	540.5	559.9
115°	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6	629.6	755.5	748.7
117.5°	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9	806.4	836.9	832.2
120°	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1	900.9	897.6	892.7
122.5°	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3	957.3	955.4	950.0
125°	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5	1036.6	1034.7	1029.6
127.5°	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8	1109.1	1106.3	1102.4
130°	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3	1155.3	1152.3	1149.3
132.5°	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4	1200.9	1198.3	1195.3
135°	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9	1265.2	1262.5	1260.1
137.5°	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8	1325.2	1322.5	1319.7
140°	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6	1364.2	1361.7	1358.7
142.5°	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4	1400.2	1397.9	1394.5
145°	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4	1450.5	1448.6	1444.0
147.5°	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1	1494.6	1493.2	1488.7
150°	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9	1521.3	1519.7	1515.3
152.5°	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4	1545.8	1544.1	1540.0
155°	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5	1578.8	1577.2	1574.0
157.5°	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3	1606.5	1604.6	1602.3
160°	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5	1622.9	1621.3	1619.6
162.5°	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7	1637.9	1636.0	1634.6
165°	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3	1653.6
167.5°	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6	1671.7	1669.8	1669.0
170°	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4	1679.6	1677.7	1677.1
172.5°	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3	1685.4	1683.5	1683.0
175°	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7	1691.8	1689.9	1689.4
177.5°	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4	1692.9	1691.3	1691.1
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1944.3	1940.0	1936.4	1926.8	1922.1	1911.5	1910.0	1909.4	1895.7	1882.5	1878.8
5°	2011.0	2000.4	1984.7	1966.2	1947.1	1927.3	1914.1	1903.5	1877.1	1852.0	1837.5
7.5°	2078.4	2055.6	2028.3	1993.4	1964.2	1931.5	1907.2	1885.4	1848.0	1812.1	1787.9
10°	2128.5	2091.5	2055.2	2007.1	1969.5	1932.5	1898.2	1868.5	1826.3	1778.8	1745.2
12.5°	2159.6	2119.0	2069.0	2021.9	1973.2	1926.2	1880.3	1842.1	1792.5	1743.4	1703.5
15°	2201.7	2158.2	2097.5	2030.2	1967.5	1906.2	1853.4	1805.9	1741.2	1682.5	1633.7
17.5°	2236.2	2176.3	2111.1	2033.3	1960.7	1882.7	1814.7	1754.0	1682.0	1611.2	1553.7
20°	2247.2	2187.9	2112.6	2034.8	1949.0	1857.3	1784.1	1718.1	1640.9	1563.7	1497.7
22.5°	2240.4	2194.2	2110.6	2017.4	1929.5	1833.6	1750.8	1674.3	1588.6	1509.8	1433.3
25°	2193.8	2178.0	2098.8	1997.2	1896.9	1785.4	1689.7	1605.9	1508.3	1423.8	1340.7
27.5°	2085.2	2119.4	2070.3	1962.0	1850.5	1731.0	1623.5	1528.1	1426.8	1331.7	1248.9
30°	1980.7	2059.2	2038.1	1937.8	1813.1	1695.7	1574.9	1475.3	1367.1	1269.5	1187.7
32.5°	1837.6	1967.4	1988.0	1904.0	1775.1	1646.1	1519.5	1420.4	1307.4	1204.5	1124.8
35°	1609.9	1803.9	1892.9	1839.5	1710.2	1571.0	1440.3	1324.8	1211.3	1109.7	1030.6
37.5°	1338.2	1602.4	1750.8	1754.6	1635.9	1491.2	1348.8	1234.2	1118.1	1018.3	932.7
40°	1161.9	1448.2	1641.6	1684.5	1584.2	1427.8	1283.9	1167.2	1053.7	956.1	857.7
42.5°	1003.6	1288.8	1526.5	1601.0	1521.4	1366.1	1221.7	1099.6	989.3	896.9	796.5
45°	811.6	1060.9	1322.8	1456.1	1412.0	1268.1	1115.7	999.6	896.0	816.1	719.8
47.5°	684.6	860.4	1113.9	1294.1	1293.3	1162.0	1012.1	900.9	804.8	730.0	652.0
50°	612.3	765.3	979.8	1184.3	1201.4	1091.3	948.7	838.6	748.9	670.4	607.7
52.5°	547.3	673.5	866.3	1062.4	1111.2	1015.8	877.5	775.8	688.7	616.5	562.8
55°	462.5	560.2	706.6	890.0	964.0	896.6	774.0	678.9	608.3	547.6	501.4
57.5°	391.2	464.5	582.0	729.7	815.8	773.4	672.2	595.0	534.6	479.7	443.2
60°	346.4	406.4	506.1	629.5	724.4	694.7	608.3	536.4	484.9	437.5	403.1
62.5°	304.2	355.8	441.2	541.3	628.4	616.1	545.5	485.2	440.1	396.8	367.7
65°	244.8	282.4	349.0	427.6	497.5	503.4	452.6	411.7	371.4	337.2	311.4
67.5°	194.9	219.5	266.4	332.5	385.0	403.6	372.6	341.4	309.4	282.9	260.6
70°	164.3	184.1	218.3	271.8	320.0	339.8	322.0	297.6	269.8	248.1	228.9
72.5°	133.1	152.4	177.7	217.0	258.2	279.7	273.5	255.9	233.4	215.3	197.3
75°	100.3	106.2	123.4	149.8	182.1	200.6	205.2	196.0	178.1	164.3	153.7
77.5°	74.1	77.7	85.9	99.8	120.9	137.3	144.1	143.0	130.8	122.7	112.8
80°	59.4	61.4	65.3	71.3	87.1	103.6	108.2	108.2	99.6	96.3	86.4
82.5°	45.1	46.6	49.0	52.3	59.7	74.0	79.2	80.2	74.8	70.4	62.7
85°	25.7	25.1	26.4	28.4	29.7	33.7	41.6	42.9	41.6	36.2	34.3
87.5°	13.0	13.1	12.7	11.6	11.5	11.5	13.5	15.6	14.0	13.1	12.6
90°	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7	24.5	24.2	23.9
95°	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6	70.6	61.6	52.7
97.5°	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0	132.7	107.4	82.1
100°	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7	179.4	142.2	104.9
102.5°	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4	273.5	265.6	257.7
105°	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3	380.4	388.6	396.7
107.5°	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9	482.4	489.0	495.6
110°	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5	548.2	553.9	559.6





TEST NUMBER: P331861-935

CATALOG NUMBER: S122RDIW-S1005D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2	610.2	615.3	620.4
115°	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1	708.8	713.3	718.0
117.5°	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6	797.7	802.9	808.0
120°	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2	861.3	865.3	869.4
122.5°	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1	916.4	920.7	925.0
125°	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6	999.1	1002.6	1006.2
127.5°	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3	1075.1	1079.1	1083.0
130°	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2	1123.6	1127.9	1132.3
132.5°	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2	1171.9	1175.6	1179.3
135°	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9	1236.2	1240.6	1244.9
137.5°	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3	1299.3	1302.4	1305.4
140°	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4	1340.6	1342.8	1345.0
142.5°	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7	1375.6	1377.6	1379.6
145°	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1	1428.7	1428.5	1428.2
147.5°	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3	1476.3	1475.2	1474.2
150°	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6	1506.8	1504.9	1503.0
152.5°	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1	1533.0	1530.9	1528.7
155°	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6	1571.1	1568.7	1566.2
157.5°	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7	1601.6	1599.6	1597.5
160°	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1619.6	1618.1	1616.4
162.5°	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9	1635.4	1633.7	1632.1
165°	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0	1656.4	1654.8	1653.1
167.5°	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7	1672.1	1670.4	1668.8
170°	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6	1680.9	1679.3	1677.7
172.5°	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4	1686.8	1685.1	1683.5
175°	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0	1694.1	1692.2	1690.3
177.5°	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2	1695.7	1694.2	1692.6
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331861-935

CATALOG NUMBER: S122RDIW-S1005D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1872.0	1868.3	1861.4	1850.8	1844.5	1833.4	1826.0	1830.2	1831.3	1830.2	1829.2
5°	1821.7	1807.8	1788.7	1770.2	1753.1	1734.6	1724.1	1719.4	1710.2	1704.9	1702.3
7.5°	1760.8	1737.0	1709.9	1677.7	1650.4	1621.8	1607.1	1599.8	1581.0	1570.7	1561.7
10°	1715.5	1677.8	1650.8	1608.6	1582.9	1545.2	1519.5	1520.2	1494.4	1479.9	1469.4
12.5°	1665.3	1624.0	1579.0	1541.0	1505.3	1475.1	1444.0	1431.5	1404.2	1390.2	1361.7
15°	1582.2	1534.0	1486.5	1435.0	1398.8	1351.9	1307.1	1252.3	1208.1	1169.8	1159.3
17.5°	1491.4	1431.8	1384.1	1323.7	1261.5	1182.8	1130.8	1099.0	1072.3	1052.1	1037.1
20°	1429.1	1368.4	1317.6	1226.6	1142.7	1089.3	1051.0	1026.7	998.9	977.1	965.3
22.5°	1363.7	1300.3	1231.1	1129.5	1064.1	1021.2	987.1	959.1	940.3	923.3	912.5
25°	1270.7	1201.4	1087.4	1017.4	964.6	919.7	896.0	878.8	859.0	835.9	825.4
27.5°	1172.6	1062.4	980.4	928.4	878.0	848.9	827.5	801.9	784.2	773.8	762.8
30°	1099.2	989.0	925.1	868.3	832.7	800.3	775.2	760.8	743.6	725.7	718.5
32.5°	1017.4	929.4	868.1	820.8	784.6	757.1	737.3	713.8	701.4	690.4	675.2
35°	915.8	849.1	793.1	754.8	720.5	698.1	674.9	661.1	638.7	629.5	623.5
37.5°	829.7	772.0	730.1	689.7	662.5	637.7	623.6	601.6	591.9	579.0	566.5
40°	781.2	724.4	684.2	651.2	620.9	602.4	584.5	566.8	552.2	546.3	531.2
42.5°	731.6	685.4	645.1	609.0	588.7	569.1	546.6	533.5	518.5	508.9	499.5
45°	663.1	622.2	587.9	558.2	535.7	515.3	500.8	479.0	470.5	451.3	443.4
47.5°	603.0	564.9	532.2	503.9	482.1	468.7	447.5	430.4	416.7	405.0	394.9
50°	560.2	528.5	496.8	471.7	451.9	432.8	411.0	402.4	381.3	375.4	369.5
52.5°	521.1	491.0	462.0	437.5	417.7	399.1	379.9	368.7	354.5	348.5	344.1
55°	466.5	437.5	409.7	388.0	368.2	349.0	337.2	323.3	316.7	312.1	306.8
57.5°	411.6	385.5	364.2	342.2	322.3	307.0	293.3	285.0	278.2	272.1	265.8
60°	376.8	351.6	332.5	312.1	291.6	279.1	268.5	258.6	250.7	241.5	238.8
62.5°	339.8	317.9	300.3	280.4	262.6	251.2	241.1	231.7	222.2	208.8	205.1
65°	289.0	271.8	253.4	236.9	221.0	209.8	195.3	184.8	180.8	179.4	178.8
67.5°	243.1	226.9	211.0	194.1	179.7	169.3	162.0	160.3	157.6	156.8	154.9
70°	212.5	197.3	181.4	165.6	151.8	149.8	147.1	144.5	141.2	139.9	138.5
72.5°	185.0	169.3	153.4	140.8	134.8	132.3	129.8	127.1	124.8	123.6	122.7
75°	141.9	127.3	116.8	112.2	108.8	106.9	102.9	100.9	99.6	97.6	96.9
77.5°	102.1	93.9	89.1	86.2	82.7	80.6	78.4	76.4	75.0	74.6	73.5
80°	77.8	73.9	70.6	66.6	65.3	62.7	62.0	60.0	60.7	58.7	58.7
82.5°	60.4	55.4	52.7	50.8	49.5	47.4	46.8	45.8	45.9	44.4	44.4
85°	31.0	29.7	28.4	27.0	27.0	25.1	25.7	25.1	25.1	23.8	23.1
87.5°	12.7	12.7	12.1	12.5	12.9	12.8	13.1	12.8	13.1	13.3	13.0
90°	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2	28.6	30.0	30.9
92.5°	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8	30.6	31.3	31.8
95°	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5	51.8	53.2	53.7
97.5°	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1	67.2	68.3	69.0
100°	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1	76.4	78.5	79.9
102.5°	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4	80.2	83.1	84.9
105°	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7	83.7	86.7	88.7
107.5°	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5	95.4	92.4	91.4
110°	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9	132.7	105.5	92.4



TEST NUMBER: P331861-935

CATALOG NUMBER: S122RDIW-S1005D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0	242.7	143.4	94.2
115°	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6	377.5	251.6	178.7
117.5°	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9	745.5	715.0	667.5
120°	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1	907.4	910.7	893.9
122.5°	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3	961.3	963.2	960.6
125°	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5	1040.4	1042.3	1043.7
127.5°	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8	1114.6	1117.3	1118.9
130°	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3	1161.3	1164.2	1165.6
132.5°	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4	1206.0	1208.6	1209.7
135°	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9	1270.7	1273.4	1274.5
137.5°	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8	1330.5	1333.2	1334.0
140°	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6	1369.1	1371.5	1372.0
142.5°	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4	1404.6	1406.9	1407.3
145°	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4	1454.3	1456.3	1456.6
147.5°	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1	1497.5	1498.9	1499.0
150°	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9	1524.6	1526.2	1526.3
152.5°	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4	1549.0	1550.7	1550.6
155°	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5	1582.1	1583.7	1583.5
157.5°	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3	1610.2	1612.1	1611.9
160°	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5	1626.2	1627.8	1627.7
162.5°	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7	1641.6	1643.4	1643.1
165°	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0
167.5°	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6	1675.5	1677.4	1677.1
170°	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4	1683.3	1685.2	1685.0
172.5°	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3	1689.2	1691.1	1690.8
175°	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7	1695.6	1697.5	1697.1
177.5°	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4	1695.9	1697.5	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331861-935

CATALOG NUMBER: S122RDIW-S1005D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1823.4	1824.5	1822.9	1823.9	1822.9	1824.5	1823.4	1829.2	1830.2	1831.3	1830.2
5°	1698.9	1691.0	1689.7	1687.7	1689.7	1691.0	1698.9	1702.3	1704.9	1710.2	1719.4
7.5°	1550.4	1549.2	1545.9	1541.3	1545.9	1549.2	1550.4	1561.7	1570.7	1581.0	1599.8
10°	1454.8	1451.6	1450.9	1446.2	1450.9	1451.6	1454.8	1469.4	1479.9	1494.4	1520.2
12.5°	1342.9	1321.7	1319.5	1307.9	1319.5	1321.7	1342.9	1361.7	1390.2	1404.2	1431.5
15°	1143.4	1139.4	1126.3	1117.7	1126.3	1139.4	1143.4	1159.3	1169.8	1208.1	1252.3
17.5°	1029.4	1016.5	1012.4	1010.6	1012.4	1016.5	1029.4	1037.1	1052.1	1072.3	1099.0
20°	956.1	944.2	942.2	940.9	942.2	944.2	956.1	965.3	977.1	998.9	1026.7
22.5°	905.3	892.9	887.8	883.8	887.8	892.9	905.3	912.5	923.3	940.3	959.1
25°	818.8	814.2	811.6	810.2	811.6	814.2	818.8	825.4	835.9	859.0	878.8
27.5°	751.1	741.0	739.0	735.6	739.0	741.0	751.1	762.8	773.8	784.2	801.9
30°	712.6	709.3	704.6	700.7	704.6	709.3	712.6	718.5	725.7	743.6	760.8
32.5°	667.2	664.4	660.3	658.5	660.3	664.4	667.2	675.2	690.4	701.4	713.8
35°	616.9	607.7	603.7	597.8	603.7	607.7	616.9	623.5	629.5	638.7	661.1
37.5°	563.7	558.9	553.3	555.3	553.3	558.9	563.7	566.5	579.0	591.9	601.6
40°	522.5	519.3	518.0	517.3	518.0	519.3	522.5	531.2	546.3	552.2	566.8
42.5°	489.8	480.7	477.3	477.2	477.3	480.7	489.8	499.5	508.9	518.5	533.5
45°	440.1	431.5	425.6	426.2	425.6	431.5	440.1	443.4	451.3	470.5	479.0
47.5°	389.2	388.9	385.2	386.3	385.2	388.9	389.2	394.9	405.0	416.7	430.4
50°	364.9	360.9	358.3	359.0	358.3	360.9	364.9	369.5	375.4	381.3	402.4
52.5°	341.6	338.2	336.1	338.9	336.1	338.2	341.6	344.1	348.5	354.5	368.7
55°	303.5	299.5	298.9	298.3	298.9	299.5	303.5	306.8	312.1	316.7	323.3
57.5°	260.9	258.2	254.3	252.5	254.3	258.2	260.9	265.8	272.1	278.2	285.0
60°	230.2	225.0	218.3	217.7	218.3	225.0	230.2	238.8	241.5	250.7	258.6
62.5°	202.2	201.2	199.9	199.8	199.9	201.2	202.2	205.1	208.8	222.2	231.7
65°	177.5	176.8	177.5	178.1	177.5	176.8	177.5	178.8	179.4	180.8	184.8
67.5°	154.6	153.4	152.3	152.8	152.3	153.4	154.6	154.9	156.8	157.6	160.3
70°	137.2	136.6	136.0	136.0	136.0	136.6	137.2	138.5	139.9	141.2	144.5
72.5°	120.4	120.2	119.6	119.0	119.6	120.2	120.4	122.7	123.6	124.8	127.1
75°	96.3	95.0	95.0	95.0	95.0	95.0	96.3	96.9	97.6	99.6	100.9
77.5°	73.4	72.7	72.1	71.5	72.1	72.7	73.4	73.5	74.6	75.0	76.4
80°	58.0	57.4	56.7	56.7	56.7	57.4	58.0	58.7	58.7	60.7	60.0
82.5°	44.3	43.7	43.6	43.0	43.6	43.7	44.3	44.4	44.4	45.9	45.8
85°	23.8	24.5	23.8	25.1	23.8	24.5	23.8	23.1	23.8	25.1	25.1
87.5°	13.2	12.7	13.3	12.9	13.3	12.7	13.2	13.0	13.3	13.1	12.8
90°	31.4	31.9	32.5	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2
92.5°	32.1	32.4	32.7	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8
95°	53.5	53.2	53.0	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5
97.5°	69.3	69.7	70.0	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1
100°	80.4	80.9	81.5	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1
102.5°	85.7	86.4	87.1	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4
105°	89.8	90.9	92.0	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7
107.5°	92.5	93.6	94.7	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5
110°	93.5	94.5	95.7	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9



TEST NUMBER: P331861-935

CATALOG NUMBER: S122RDIW-S1005D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.1	96.0	96.9	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0
115°	159.2	139.6	120.0	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6
117.5°	603.1	538.7	474.3	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9
120°	857.2	820.4	783.7	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1
122.5°	953.5	946.4	939.3	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3
125°	1044.6	1045.3	1046.2	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5
127.5°	1119.0	1119.1	1119.3	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8
130°	1165.4	1165.1	1164.8	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3
132.5°	1209.4	1209.2	1208.9	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4
135°	1273.9	1273.4	1272.8	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9
137.5°	1333.1	1332.2	1331.3	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8
140°	1370.7	1369.3	1368.0	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6
142.5°	1405.9	1404.5	1403.3	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4
145°	1455.2	1453.8	1452.4	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4
147.5°	1497.9	1496.8	1495.6	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1
150°	1525.0	1523.6	1522.2	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9
152.5°	1548.8	1547.0	1545.2	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4
155°	1581.3	1579.2	1576.9	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5
157.5°	1609.8	1607.7	1605.5	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3
160°	1625.8	1623.8	1622.0	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5
162.5°	1640.8	1638.5	1636.2	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7
165°	1660.1	1658.2	1656.3	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2
167.5°	1674.7	1672.2	1669.8	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6
170°	1682.6	1680.1	1677.7	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4
172.5°	1688.4	1685.9	1683.5	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3
175°	1694.4	1691.6	1688.9	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7
177.5°	1695.2	1693.3	1691.3	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1826.0	1833.4	1844.5	1850.8	1861.4	1868.3	1872.0	1878.8	1882.5	1895.7	1909.4
5°	1724.1	1734.6	1753.1	1770.2	1788.7	1807.8	1821.7	1837.5	1852.0	1877.1	1903.5
7.5°	1607.1	1621.8	1650.4	1677.7	1709.9	1737.0	1760.8	1787.9	1812.1	1848.0	1885.4
10°	1519.5	1545.2	1582.9	1608.6	1650.8	1677.8	1715.5	1745.2	1778.8	1826.3	1868.5
12.5°	1444.0	1475.1	1505.3	1541.0	1579.0	1624.0	1665.3	1703.5	1743.4	1792.5	1842.1
15°	1307.1	1351.9	1398.8	1435.0	1486.5	1534.0	1582.2	1633.7	1682.5	1741.2	1805.9
17.5°	1130.8	1182.8	1261.5	1323.7	1384.1	1431.8	1491.4	1553.7	1611.2	1682.0	1754.0
20°	1051.0	1089.3	1142.7	1226.6	1317.6	1368.4	1429.1	1497.7	1563.7	1640.9	1718.1
22.5°	987.1	1021.2	1064.1	1129.5	1231.1	1300.3	1363.7	1433.3	1509.8	1588.6	1674.3
25°	896.0	919.7	964.6	1017.4	1087.4	1201.4	1270.7	1340.7	1423.8	1508.3	1605.9
27.5°	827.5	848.9	878.0	928.4	980.4	1062.4	1172.6	1248.9	1331.7	1426.8	1528.1
30°	775.2	800.3	832.7	868.3	925.1	989.0	1099.2	1187.7	1269.5	1367.1	1475.3
32.5°	737.3	757.1	784.6	820.8	868.1	929.4	1017.4	1124.8	1204.5	1307.4	1420.4
35°	674.9	698.1	720.5	754.8	793.1	849.1	915.8	1030.6	1109.7	1211.3	1324.8
37.5°	623.6	637.7	662.5	689.7	730.1	772.0	829.7	932.7	1018.3	1118.1	1234.2
40°	584.5	602.4	620.9	651.2	684.2	724.4	781.2	857.7	956.1	1053.7	1167.2
42.5°	546.6	569.1	588.7	609.0	645.1	685.4	731.6	796.5	896.9	989.3	1099.6
45°	500.8	515.3	535.7	558.2	587.9	622.2	663.1	719.8	816.1	896.0	999.6
47.5°	447.5	468.7	482.1	503.9	532.2	564.9	603.0	652.0	730.0	804.8	900.9
50°	411.0	432.8	451.9	471.7	496.8	528.5	560.2	607.7	670.4	748.9	838.6
52.5°	379.9	399.1	417.7	437.5	462.0	491.0	521.1	562.8	616.5	688.7	775.8
55°	337.2	349.0	368.2	388.0	409.7	437.5	466.5	501.4	547.6	608.3	678.9
57.5°	293.3	307.0	322.3	342.2	364.2	385.5	411.6	443.2	479.7	534.6	595.0
60°	268.5	279.1	291.6	312.1	332.5	351.6	376.8	403.1	437.5	484.9	536.4
62.5°	241.1	251.2	262.6	280.4	300.3	317.9	339.8	367.7	396.8	440.1	485.2
65°	195.3	209.8	221.0	236.9	253.4	271.8	289.0	311.4	337.2	371.4	411.7
67.5°	162.0	169.3	179.7	194.1	211.0	226.9	243.1	260.6	282.9	309.4	341.4
70°	147.1	149.8	151.8	165.6	181.4	197.3	212.5	228.9	248.1	269.8	297.6
72.5°	129.8	132.3	134.8	140.8	153.4	169.3	185.0	197.3	215.3	233.4	255.9
75°	102.9	106.9	108.8	112.2	116.8	127.3	141.9	153.7	164.3	178.1	196.0
77.5°	78.4	80.6	82.7	86.2	89.1	93.9	102.1	112.8	122.7	130.8	143.0
80°	62.0	62.7	65.3	66.6	70.6	73.9	77.8	86.4	96.3	99.6	108.2
82.5°	46.8	47.4	49.5	50.8	52.7	55.4	60.4	62.7	70.4	74.8	80.2
85°	25.7	25.1	27.0	27.0	28.4	29.7	31.0	34.3	36.2	41.6	42.9
87.5°	13.1	12.8	12.9	12.5	12.1	12.7	12.7	12.6	13.1	14.0	15.6
90°	25.8	24.5	22.3	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7
95°	49.1	47.8	45.9	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6
97.5°	65.0	63.9	59.5	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0
100°	72.0	69.8	65.2	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7
102.5°	74.6	71.7	110.5	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4
105°	77.7	74.7	149.0	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3
107.5°	101.5	104.6	193.6	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9
110°	187.1	214.3	292.9	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5



TEST NUMBER: P331861-935

CATALOG NUMBER: S122RDIW-S1005D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	441.3	540.5	559.9	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2
115°	629.6	755.5	748.7	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1
117.5°	806.4	836.9	832.2	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6
120°	900.9	897.6	892.7	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2
122.5°	957.3	955.4	950.0	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1
125°	1036.6	1034.7	1029.6	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6
127.5°	1109.1	1106.3	1102.4	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3
130°	1155.3	1152.3	1149.3	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2
132.5°	1200.9	1198.3	1195.3	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2
135°	1265.2	1262.5	1260.1	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9
137.5°	1325.2	1322.5	1319.7	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3
140°	1364.2	1361.7	1358.7	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4
142.5°	1400.2	1397.9	1394.5	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7
145°	1450.5	1448.6	1444.0	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1
147.5°	1494.6	1493.2	1488.7	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3
150°	1521.3	1519.7	1515.3	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6
152.5°	1545.8	1544.1	1540.0	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1
155°	1578.8	1577.2	1574.0	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6
157.5°	1606.5	1604.6	1602.3	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7
160°	1622.9	1621.3	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3
162.5°	1637.9	1636.0	1634.6	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9
165°	1656.3	1654.3	1653.6	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0
167.5°	1671.7	1669.8	1669.0	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7
170°	1679.6	1677.7	1677.1	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6
172.5°	1685.4	1683.5	1683.0	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4
175°	1691.8	1689.9	1689.4	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0
177.5°	1692.9	1691.3	1691.1	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331861-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1910.0	1911.5	1922.1	1926.8	1936.4	1940.0	1944.3	1943.2	1943.2	1945.3	1960.1
5°	1914.1	1927.3	1947.1	1966.2	1984.7	2000.4	2011.0	2021.6	2025.6	2044.7	2061.8
7.5°	1907.2	1931.5	1964.2	1993.4	2028.3	2055.6	2078.4	2098.8	2112.8	2140.6	2169.1
10°	1898.2	1932.5	1969.5	2007.1	2055.2	2091.5	2128.5	2156.9	2166.1	2207.7	2231.5
12.5°	1880.3	1926.2	1973.2	2021.9	2069.0	2119.0	2159.6	2188.0	2220.4	2257.8	2301.6
15°	1853.4	1906.2	1967.5	2030.2	2097.5	2158.2	2201.7	2251.2	2286.8	2327.7	2366.0
17.5°	1814.7	1882.7	1960.7	2033.3	2111.1	2176.3	2236.2	2283.6	2308.8	2332.1	2337.8
20°	1784.1	1857.3	1949.0	2034.8	2112.6	2187.9	2247.2	2286.8	2293.4	2294.0	2259.1
22.5°	1750.8	1833.6	1929.5	2017.4	2110.6	2194.2	2240.4	2257.3	2231.1	2186.4	2118.7
25°	1689.7	1785.4	1896.9	1997.2	2098.8	2178.0	2193.8	2164.1	2072.4	1976.1	1854.0
27.5°	1623.5	1731.0	1850.5	1962.0	2070.3	2119.4	2085.2	1978.1	1813.0	1669.4	1495.4
30°	1574.9	1695.7	1813.1	1937.8	2038.1	2059.2	1980.7	1823.0	1630.3	1413.9	1240.4
32.5°	1519.5	1646.1	1775.1	1904.0	1988.0	1967.4	1837.6	1643.6	1417.6	1204.9	1040.9
35°	1440.3	1571.0	1710.2	1839.5	1892.9	1803.9	1609.9	1357.2	1126.3	927.6	814.9
37.5°	1348.8	1491.2	1635.9	1754.6	1750.8	1602.4	1338.2	1077.3	883.2	765.8	685.4
40°	1283.9	1427.8	1584.2	1684.5	1641.6	1448.2	1161.9	915.8	774.0	680.3	621.6
42.5°	1221.7	1366.1	1521.4	1601.0	1526.5	1288.8	1003.6	810.7	693.7	620.6	573.0
45°	1115.7	1268.1	1412.0	1456.1	1322.8	1060.9	811.6	671.7	593.8	539.7	506.7
47.5°	1012.1	1162.0	1293.3	1294.1	1113.9	860.4	684.6	581.3	514.8	472.9	448.9
50°	948.7	1091.3	1201.4	1184.3	979.8	765.3	612.3	523.2	467.8	435.5	410.4
52.5°	877.5	1015.8	1111.2	1062.4	866.3	673.5	547.3	472.5	426.6	398.5	376.1
55°	774.0	896.6	964.0	890.0	706.6	560.2	462.5	403.8	369.5	345.7	326.6
57.5°	672.2	773.4	815.8	729.7	582.0	464.5	391.2	347.2	313.1	296.1	286.2
60°	608.3	694.7	724.4	629.5	506.1	406.4	346.4	305.5	280.4	269.2	259.3
62.5°	545.5	616.1	628.4	541.3	441.2	355.8	304.2	269.6	253.0	242.3	232.9
65°	452.6	503.4	497.5	427.6	349.0	282.4	244.8	223.7	211.1	196.0	179.4
67.5°	372.6	403.6	385.0	332.5	266.4	219.5	194.9	178.9	163.3	149.0	145.2
70°	322.0	339.8	320.0	271.8	218.3	184.1	164.3	145.2	136.0	132.6	126.7
72.5°	273.5	279.7	258.2	217.0	177.7	152.4	133.1	122.4	117.4	114.7	110.8
75°	205.2	200.6	182.1	149.8	123.4	106.2	100.3	96.3	93.0	90.4	88.4
77.5°	144.1	137.3	120.9	99.8	85.9	77.7	74.1	72.1	70.4	69.1	67.2
80°	108.2	103.6	87.1	71.3	65.3	61.4	59.4	56.7	56.7	55.4	53.5
82.5°	79.2	74.0	59.7	52.3	49.0	46.6	45.1	43.6	43.0	43.3	41.8
85°	41.6	33.7	29.7	28.4	26.4	25.1	25.7	24.5	24.5	24.5	23.8
87.5°	13.5	11.5	11.5	11.6	12.7	13.1	13.0	13.4	14.4	14.1	15.0
90°	4.2	7.2	10.2	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2
92.5°	24.5	24.2	23.9	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8
95°	70.6	61.6	52.7	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5
97.5°	132.7	107.4	82.1	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1
100°	179.4	142.2	104.9	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1
102.5°	273.5	265.6	257.7	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4
105°	380.4	388.6	396.7	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7
107.5°	482.4	489.0	495.6	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5
110°	548.2	553.9	559.6	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	610.2	615.3	620.4	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0
115°	708.8	713.3	718.0	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6
117.5°	797.7	802.9	808.0	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9
120°	861.3	865.3	869.4	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1
122.5°	916.4	920.7	925.0	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3
125°	999.1	1002.6	1006.2	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5
127.5°	1075.1	1079.1	1083.0	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8
130°	1123.6	1127.9	1132.3	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3
132.5°	1171.9	1175.6	1179.3	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4
135°	1236.2	1240.6	1244.9	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9
137.5°	1299.3	1302.4	1305.4	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8
140°	1340.6	1342.8	1345.0	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6
142.5°	1375.6	1377.6	1379.6	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4
145°	1428.7	1428.5	1428.2	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4
147.5°	1476.3	1475.2	1474.2	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1
150°	1506.8	1504.9	1503.0	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9
152.5°	1533.0	1530.9	1528.7	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4
155°	1571.1	1568.7	1566.2	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5
157.5°	1601.6	1599.6	1597.5	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3
160°	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5
162.5°	1635.4	1633.7	1632.1	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7
165°	1656.4	1654.8	1653.1	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2
167.5°	1672.1	1670.4	1668.8	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6
170°	1680.9	1679.3	1677.7	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4
172.5°	1686.8	1685.1	1683.5	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3
175°	1694.1	1692.2	1690.3	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7
177.5°	1695.7	1694.2	1692.6	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1965.4	1972.2	1975.4	1975.4	1979.1	1977.5	1975.9
5°	2078.4	2090.9	2093.5	2105.4	2113.9	2111.3	2112.6
7.5°	2190.6	2210.8	2230.8	2239.9	2241.3	2246.6	2248.6
10°	2259.8	2276.3	2307.3	2302.7	2325.7	2339.0	2317.2
12.5°	2326.2	2348.5	2370.1	2376.0	2389.1	2393.3	2384.7
15°	2386.4	2398.3	2399.7	2396.3	2400.3	2397.0	2384.5
17.5°	2330.2	2311.0	2271.9	2253.4	2238.8	2217.2	2208.5
20°	2237.3	2180.6	2114.6	2088.3	2057.2	1996.5	2011.0
22.5°	2036.8	1972.1	1906.2	1829.1	1792.3	1734.7	1731.3
25°	1724.7	1613.2	1490.5	1404.7	1354.5	1297.2	1272.0
27.5°	1340.9	1200.6	1100.0	1049.0	1002.7	957.3	955.4
30°	1088.6	983.1	905.3	861.7	833.3	814.2	818.1
32.5°	917.7	845.3	792.8	756.6	735.6	721.3	721.0
35°	750.2	700.7	667.0	651.9	636.7	626.1	626.8
37.5°	642.0	612.3	593.6	576.8	567.3	562.1	559.2
40°	586.5	562.1	547.6	537.7	529.8	522.5	521.2
42.5°	542.8	522.5	508.1	500.2	492.8	487.8	486.4
45°	481.6	465.1	451.9	443.4	440.1	435.5	435.5
47.5°	428.4	412.2	401.9	396.6	390.9	387.8	387.7
50°	392.6	380.0	370.8	367.5	362.9	360.9	360.2
52.5°	360.4	351.0	344.4	342.2	340.2	337.7	338.1
55°	316.7	311.4	308.8	306.8	303.5	299.5	302.2
57.5°	279.9	275.4	268.3	262.1	259.1	256.2	257.4
60°	254.0	244.8	235.6	228.3	226.3	220.3	220.3
62.5°	221.3	208.4	197.0	193.0	191.0	188.2	187.6
65°	170.2	165.0	162.3	159.6	158.3	158.3	157.0
67.5°	141.0	139.0	136.0	135.3	134.1	133.7	133.3
70°	124.7	122.1	120.7	120.1	118.7	119.4	117.4
72.5°	108.8	106.8	106.5	104.8	104.0	104.1	102.6
75°	85.8	85.8	85.2	84.5	83.2	82.5	83.2
77.5°	66.0	66.1	64.9	64.8	64.7	64.8	64.1
80°	52.8	53.5	52.8	52.1	51.5	52.1	51.5
82.5°	41.7	40.8	40.6	40.6	40.4	40.0	39.9
85°	23.8	24.5	23.8	23.1	23.1	23.1	23.8
87.5°	14.7	15.0	15.2	15.2	15.3	15.5	15.1
90°	28.6	30.0	30.9	31.4	31.9	32.5	33.1
92.5°	30.6	31.3	31.8	32.1	32.4	32.7	33.1
95°	51.8	53.2	53.7	53.5	53.2	53.0	52.7
97.5°	67.2	68.3	69.0	69.3	69.7	70.0	70.3
100°	76.4	78.5	79.9	80.4	80.9	81.5	82.1
102.5°	80.2	83.1	84.9	85.7	86.4	87.1	87.9
105°	83.7	86.7	88.7	89.8	90.9	92.0	93.1
107.5°	95.4	92.4	91.4	92.5	93.6	94.7	95.7
110°	132.7	105.5	92.4	93.5	94.5	95.7	96.8



TEST NUMBER: P331861-935

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.7	143.4	94.2	95.1	96.0	96.9	97.7
115°	377.5	251.6	178.7	159.2	139.6	120.0	100.4
117.5°	745.5	715.0	667.5	603.1	538.7	474.3	410.0
120°	907.4	910.7	893.9	857.2	820.4	783.7	747.0
122.5°	961.3	963.2	960.6	953.5	946.4	939.3	932.1
125°	1040.4	1042.3	1043.7	1044.6	1045.3	1046.2	1047.0
127.5°	1114.6	1117.3	1118.9	1119.0	1119.1	1119.3	1119.5
130°	1161.3	1164.2	1165.6	1165.4	1165.1	1164.8	1164.5
132.5°	1206.0	1208.6	1209.7	1209.4	1209.2	1208.9	1208.6
135°	1270.7	1273.4	1274.5	1273.9	1273.4	1272.8	1272.3
137.5°	1330.5	1333.2	1334.0	1333.1	1332.2	1331.3	1330.3
140°	1369.1	1371.5	1372.0	1370.7	1369.3	1368.0	1366.6
142.5°	1404.6	1406.9	1407.3	1405.9	1404.5	1403.3	1401.9
145°	1454.3	1456.3	1456.6	1455.2	1453.8	1452.4	1451.1
147.5°	1497.5	1498.9	1499.0	1497.9	1496.8	1495.6	1494.4
150°	1524.6	1526.2	1526.3	1525.0	1523.6	1522.2	1520.9
152.5°	1549.0	1550.7	1550.6	1548.8	1547.0	1545.2	1543.4
155°	1582.1	1583.7	1583.5	1581.3	1579.2	1576.9	1574.8
157.5°	1610.2	1612.1	1611.9	1609.8	1607.7	1605.5	1603.4
160°	1626.2	1627.8	1627.7	1625.8	1623.8	1622.0	1620.1
162.5°	1641.6	1643.4	1643.1	1640.8	1638.5	1636.2	1633.8
165°	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3
167.5°	1675.5	1677.4	1677.1	1674.7	1672.2	1669.8	1667.3
170°	1683.3	1685.2	1685.0	1682.6	1680.1	1677.7	1675.2
172.5°	1689.2	1691.1	1690.8	1688.4	1685.9	1683.5	1681.0
175°	1695.6	1697.5	1697.1	1694.4	1691.6	1688.9	1686.2
177.5°	1695.9	1697.5	1697.2	1695.2	1693.3	1691.3	1689.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3

(END OF REPORT)