

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: P333111-935

Luminaire Tested: **S124RDIW-S1195D1560U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333111-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1195D1560U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9687.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

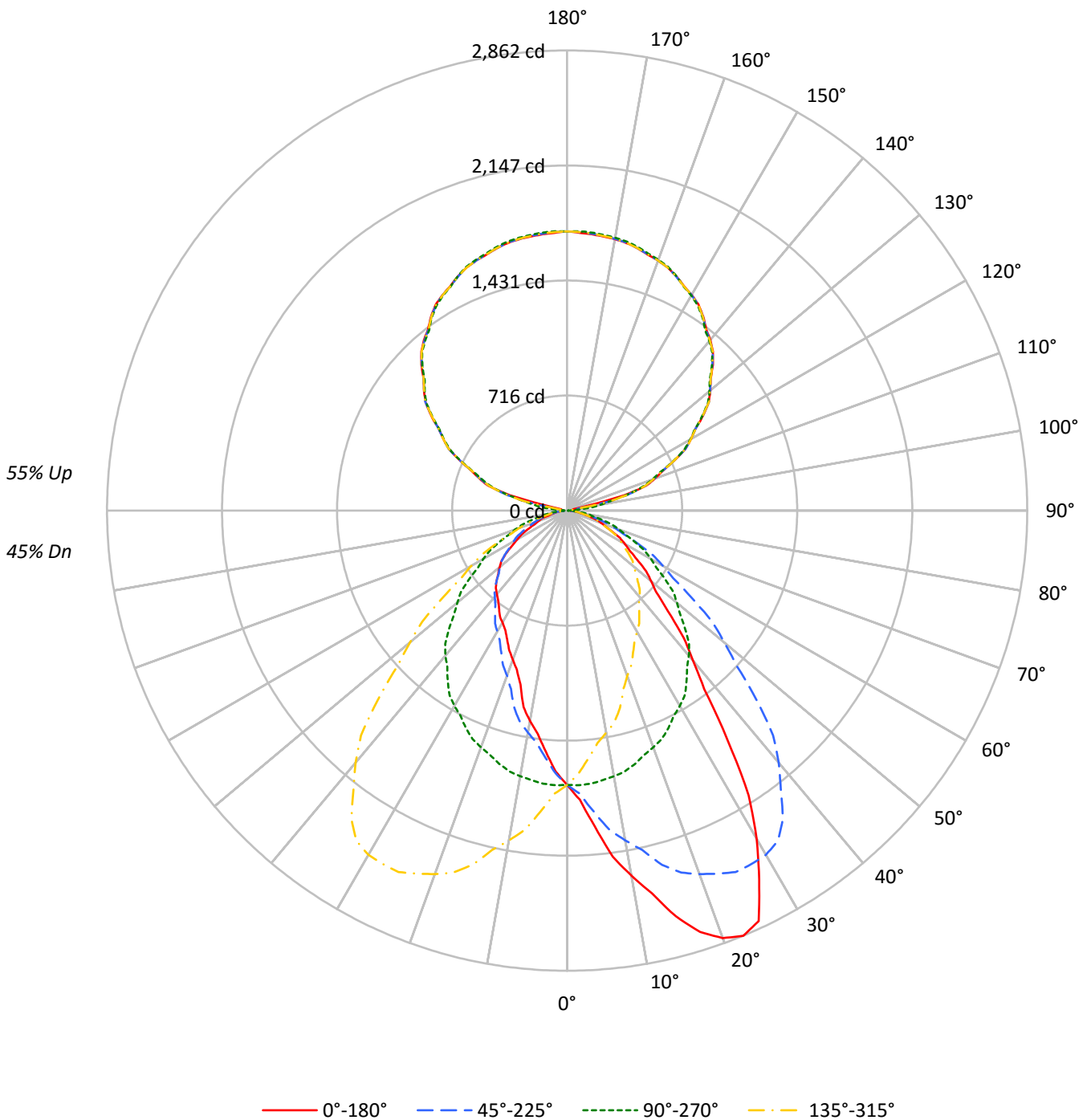
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33				
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28				
4	74	64	56	50	68	59	52	47	50	45	41	41	37	34	33	30	28	25				
5	68	57	49	43	62	53	46	41	45	39	35	37	33	30	30	27	25	22				
6	63	51	43	38	58	47	40	35	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	25	22	20	17				
8	54	42	35	29	50	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	1.7
10°-20°	498.7	5.1
20°-30°	780.0	8.1
30°-40°	867.1	9.0
40°-50°	769.3	7.9
50°-60°	599.5	6.2
60°-70°	392.5	4.1
70°-80°	193.0	2.0
80°-90°	52.6	0.5
90°-100°	59.4	0.6
100°-110°	378.6	3.9
110°-120°	724.2	7.5
120°-130°	919.3	9.5
130°-140°	983.6	10.2
140°-150°	919.8	9.5
150°-160°	741.8	7.7
160°-170°	478.4	4.9
170°-180°	164.9	1.7
0°-30°	1444.0	14.9
0°-40°	2311.0	23.9
0°-60°	3679.8	38.0
0°-90°	4317.9	44.6
90°-120°	1162.1	12.0
90°-150°	3984.9	41.1
90°-180°	5370.0	55.4
0°-180°	9687.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	40
90°	39	4	39	4	39	18
95°	38	71	38	71	38	30
105°	370	391	370	391	370	323
115°	735	730	735	730	735	727
125°	1034	1026	1034	1026	1034	920
135°	1282	1272	1282	1272	1282	986
145°	1475	1467	1475	1467	1475	922
155°	1608	1609	1608	1609	1608	741
165°	1689	1697	1689	1697	1689	477
175°	1726	1736	1726	1736	1726	164
180°	1736	1736	1736	1736	1736	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	19.9	19.2	19.6	19.5	20.0	19.2	19.4	20.1	18.7	18.9	18.4
90°	38.9	38.4	37.8	37.2	36.7	35.5	33.8	32.0	30.3	28.6	26.3
92.5°	35.8	35.7	35.6	35.5	35.4	34.4	32.7	31.0	29.3	27.6	25.2
95°	37.6	37.4	37.1	36.8	36.5	35.5	33.8	32.0	30.3	28.6	28.2
97.5°	36.3	36.1	35.8	35.5	35.2	35.0	34.8	34.6	34.4	34.3	66.5
100°	36.3	36.1	35.8	35.5	35.2	37.5	42.4	47.4	52.3	57.2	96.9
102.5°	37.4	37.4	37.3	37.2	37.2	63.6	116.5	169.4	222.3	275.3	280.4
105°	370.1	380.5	390.8	401.2	411.6	415.5	412.9	410.3	407.7	405.1	403.6
107.5°	515.7	514.6	513.5	512.5	511.3	510.1	508.9	507.6	506.4	505.1	503.1
110°	579.1	578.2	577.4	576.5	575.7	574.9	574.4	573.8	573.2	572.6	570.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	642.5	641.4	640.2	639.2	638.1	637.6	637.7	637.8	637.9	638.1	637.2
115°	734.9	734.9	734.9	734.9	734.9	734.6	734.0	733.5	732.9	732.3	732.6
117.5°	828.9	829.1	829.1	829.2	829.4	829.5	829.6	829.7	829.8	829.9	829.3
120°	888.1	888.7	889.2	889.8	890.4	890.4	889.8	889.2	888.7	888.1	888.4
122.5°	946.3	946.8	947.4	948.0	948.6	948.7	948.4	948.0	947.7	947.4	946.9
125°	1033.5	1033.3	1032.9	1032.7	1032.4	1031.8	1031.0	1030.1	1029.2	1028.4	1028.9
127.5°	1110.2	1110.3	1110.6	1110.9	1111.0	1111.3	1111.5	1111.6	1111.8	1112.0	1110.6
130°	1162.1	1162.1	1162.1	1162.1	1162.1	1161.9	1161.7	1161.4	1161.1	1160.8	1159.9
132.5°	1209.9	1210.1	1210.3	1210.6	1210.8	1210.7	1210.5	1210.2	1209.9	1209.6	1208.5
135°	1281.5	1281.0	1280.4	1279.8	1279.3	1278.7	1278.1	1277.5	1276.9	1276.3	1275.2
137.5°	1342.8	1343.0	1343.2	1343.3	1343.5	1343.3	1342.6	1342.0	1341.4	1340.7	1339.5
140°	1385.4	1385.1	1384.8	1384.6	1384.2	1383.7	1382.9	1382.0	1381.1	1380.2	1379.7
142.5°	1420.7	1420.6	1420.6	1420.6	1420.5	1420.1	1419.5	1418.9	1418.2	1417.6	1417.3
145°	1475.0	1474.5	1473.9	1473.3	1472.7	1472.2	1472.0	1471.7	1471.4	1471.1	1471.1
147.5°	1519.9	1519.7	1519.3	1519.1	1518.8	1518.5	1518.3	1518.0	1517.9	1517.6	1517.9
150°	1549.0	1548.8	1548.4	1548.2	1547.9	1547.7	1547.7	1547.7	1547.7	1547.7	1548.0
152.5°	1573.9	1574.1	1574.3	1574.4	1574.6	1574.5	1574.0	1573.6	1573.1	1572.6	1573.1
155°	1607.5	1608.3	1609.2	1610.1	1610.9	1610.8	1609.6	1608.4	1607.3	1606.1	1607.1
157.5°	1635.5	1637.0	1638.5	1640.0	1641.5	1641.5	1640.0	1638.5	1637.0	1635.5	1636.5
160°	1654.2	1656.0	1657.7	1659.4	1661.1	1661.1	1659.4	1657.7	1656.0	1654.2	1654.5
162.5°	1668.7	1670.7	1672.7	1674.6	1676.5	1676.7	1675.0	1673.3	1671.5	1669.7	1670.1
165°	1689.3	1691.9	1694.4	1697.0	1699.6	1699.8	1697.5	1695.1	1692.8	1690.6	1690.6
167.5°	1704.6	1707.4	1710.4	1713.2	1716.1	1716.3	1713.7	1711.2	1708.7	1706.2	1706.3
170°	1713.9	1716.8	1719.7	1722.6	1725.4	1725.8	1723.5	1721.1	1718.8	1716.5	1716.2
172.5°	1719.1	1722.3	1725.4	1728.5	1731.6	1732.0	1729.7	1727.3	1725.0	1722.8	1722.4
175°	1725.6	1729.1	1732.5	1735.9	1739.5	1739.9	1737.3	1734.7	1732.1	1729.5	1729.2
177.5°	1729.7	1732.5	1735.3	1738.1	1740.9	1741.3	1739.5	1737.6	1735.8	1733.9	1733.5
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	18.0	17.0	17.7	17.0	17.0	18.5	19.5	19.5	18.4	17.5	16.4
90°	23.9	21.6	19.4	16.6	13.4	10.2	7.1	3.9	7.1	10.2	13.4
92.5°	22.9	20.6	18.3	17.0	16.9	16.7	16.5	16.4	16.5	16.7	16.9
95°	28.0	27.7	27.4	32.2	42.0	51.8	61.6	71.4	61.6	51.8	42.0
97.5°	98.7	130.9	163.1	176.2	170.0	163.8	157.7	151.6	157.7	163.8	170.0
100°	136.7	176.6	216.4	233.7	228.5	223.3	218.2	212.9	218.2	223.3	228.5
102.5°	285.7	290.8	296.0	296.7	292.9	289.1	285.3	281.5	285.3	289.1	292.9
105°	402.3	400.8	399.3	397.8	396.1	394.3	392.5	390.8	392.5	394.3	396.1
107.5°	501.2	499.2	497.2	495.8	495.0	494.1	493.3	492.3	493.3	494.1	495.0
110°	569.1	567.4	565.7	564.4	563.5	562.7	561.8	560.9	561.8	562.7	563.5



TEST NUMBER: P333111-935

CATALOG NUMBER: S124RDIW-S1195D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	636.5	635.6	634.8	633.6	632.1	630.5	629.0	627.4	629.0	630.5	632.1
115°	732.9	733.1	733.5	733.1	732.3	731.4	730.6	729.7	730.6	731.4	732.3
117.5°	828.7	828.0	827.4	826.6	825.4	824.2	823.0	821.9	823.0	824.2	825.4
120°	888.7	889.0	889.2	888.8	887.7	886.6	885.4	884.2	885.4	886.6	887.7
122.5°	946.5	946.2	945.7	945.2	944.4	943.7	943.1	942.4	943.1	943.7	944.4
125°	1029.5	1030.1	1030.6	1030.4	1029.2	1028.0	1026.9	1025.8	1026.9	1028.0	1029.2
127.5°	1109.3	1108.0	1106.6	1105.9	1105.5	1105.3	1105.0	1104.7	1105.0	1105.3	1105.5
130°	1159.1	1158.2	1157.4	1156.8	1156.5	1156.2	1155.9	1155.6	1155.9	1156.2	1156.5
132.5°	1207.4	1206.3	1205.2	1204.5	1203.9	1203.4	1202.8	1202.3	1202.8	1203.4	1203.9
135°	1274.0	1272.9	1271.7	1271.3	1271.6	1271.9	1272.1	1272.5	1272.1	1271.9	1271.6
137.5°	1338.3	1337.0	1335.7	1335.0	1334.9	1334.7	1334.6	1334.6	1334.6	1334.7	1334.9
140°	1379.1	1378.5	1377.9	1377.3	1376.7	1376.2	1375.6	1375.0	1375.6	1376.2	1376.7
142.5°	1416.9	1416.6	1416.3	1415.6	1414.5	1413.5	1412.4	1411.4	1412.4	1413.5	1414.5
145°	1471.1	1471.1	1471.1	1470.7	1469.8	1469.0	1468.1	1467.2	1468.1	1469.0	1469.8
147.5°	1518.2	1518.5	1518.7	1518.1	1516.5	1514.8	1513.2	1511.7	1513.2	1514.8	1516.5
150°	1548.3	1548.6	1548.9	1548.4	1547.3	1546.1	1545.0	1543.9	1545.0	1546.1	1547.3
152.5°	1573.6	1574.2	1574.8	1574.5	1573.6	1572.7	1571.8	1570.8	1571.8	1572.7	1573.6
155°	1607.9	1608.8	1609.6	1609.9	1609.6	1609.3	1609.0	1608.8	1609.0	1609.3	1609.6
157.5°	1637.4	1638.4	1639.4	1640.0	1640.2	1640.4	1640.5	1640.7	1640.5	1640.4	1640.2
160°	1654.8	1655.0	1655.4	1656.0	1656.8	1657.7	1658.5	1659.4	1658.5	1657.7	1656.8
162.5°	1670.3	1670.6	1670.9	1671.6	1672.8	1673.8	1674.9	1676.0	1674.9	1673.8	1672.8
165°	1690.6	1690.6	1690.6	1691.3	1692.7	1694.2	1695.6	1697.0	1695.6	1694.2	1692.7
167.5°	1706.5	1706.7	1706.8	1707.6	1709.2	1710.6	1712.2	1713.6	1712.2	1710.6	1709.2
170°	1716.0	1715.6	1715.4	1716.1	1717.8	1719.5	1721.3	1723.0	1721.3	1719.5	1717.8
172.5°	1722.2	1721.9	1721.6	1722.3	1724.1	1725.8	1727.5	1729.2	1727.5	1725.8	1724.1
175°	1728.9	1728.6	1728.4	1729.1	1730.8	1732.5	1734.2	1735.9	1734.2	1732.5	1730.8
177.5°	1733.0	1732.5	1732.1	1732.7	1734.2	1735.9	1737.5	1739.1	1737.5	1735.9	1734.2
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



TEST NUMBER: P333111-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	17.0	17.0	17.6	16.9	17.9	18.3	18.2	18.5	19.4	18.7	18.9
90°	16.6	19.4	21.6	23.9	26.3	28.6	30.3	32.0	33.8	35.5	36.7
92.5°	17.0	18.3	20.6	22.9	25.2	27.6	29.3	31.0	32.7	34.4	35.4
95°	32.2	27.4	27.7	28.0	28.2	28.6	30.3	32.0	33.8	35.5	36.5
97.5°	176.2	163.1	130.9	98.7	66.5	34.3	34.4	34.6	34.8	35.0	35.2
100°	233.7	216.4	176.6	136.7	96.9	57.2	52.3	47.4	42.4	37.5	35.2
102.5°	296.7	296.0	290.8	285.7	280.4	275.3	222.3	169.4	116.5	63.6	37.2
105°	397.8	399.3	400.8	402.3	403.6	405.1	407.7	410.3	412.9	415.5	411.6
107.5°	495.8	497.2	499.2	501.2	503.1	505.1	506.4	507.6	508.9	510.1	511.3
110°	564.4	565.7	567.4	569.1	570.8	572.6	573.2	573.8	574.4	574.9	575.7



TEST NUMBER: P333111-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	633.6	634.8	635.6	636.5	637.2	638.1	637.9	637.8	637.7	637.6	638.1
115°	733.1	733.5	733.1	732.9	732.6	732.3	732.9	733.5	734.0	734.6	734.9
117.5°	826.6	827.4	828.0	828.7	829.3	829.9	829.8	829.7	829.6	829.5	829.4
120°	888.8	889.2	889.0	888.7	888.4	888.1	888.7	889.2	889.8	890.4	890.4
122.5°	945.2	945.7	946.2	946.5	946.9	947.4	947.7	948.0	948.4	948.7	948.6
125°	1030.4	1030.6	1030.1	1029.5	1028.9	1028.4	1029.2	1030.1	1031.0	1031.8	1032.4
127.5°	1105.9	1106.6	1108.0	1109.3	1110.6	1112.0	1111.8	1111.6	1111.5	1111.3	1111.0
130°	1156.8	1157.4	1158.2	1159.1	1159.9	1160.8	1161.1	1161.4	1161.7	1161.9	1162.1
132.5°	1204.5	1205.2	1206.3	1207.4	1208.5	1209.6	1209.9	1210.2	1210.5	1210.7	1210.8
135°	1271.3	1271.7	1272.9	1274.0	1275.2	1276.3	1276.9	1277.5	1278.1	1278.7	1279.3
137.5°	1335.0	1335.7	1337.0	1338.3	1339.5	1340.7	1341.4	1342.0	1342.6	1343.3	1343.5
140°	1377.3	1377.9	1378.5	1379.1	1379.7	1380.2	1381.1	1382.0	1382.9	1383.7	1384.2
142.5°	1415.6	1416.3	1416.6	1416.9	1417.3	1417.6	1418.2	1418.9	1419.5	1420.1	1420.5
145°	1470.7	1471.1	1471.1	1471.1	1471.1	1471.1	1471.4	1471.7	1472.0	1472.2	1472.7
147.5°	1518.1	1518.7	1518.5	1518.2	1517.9	1517.6	1517.9	1518.0	1518.3	1518.5	1518.8
150°	1548.4	1548.9	1548.6	1548.3	1548.0	1547.7	1547.7	1547.7	1547.7	1547.7	1547.9
152.5°	1574.5	1574.8	1574.2	1573.6	1573.1	1572.6	1573.1	1573.6	1574.0	1574.5	1574.6
155°	1609.9	1609.6	1608.8	1607.9	1607.1	1606.1	1607.3	1608.4	1609.6	1610.8	1610.9
157.5°	1640.0	1639.4	1638.4	1637.4	1636.5	1635.5	1637.0	1638.5	1640.0	1641.5	1641.5
160°	1656.0	1655.4	1655.0	1654.8	1654.5	1654.2	1656.0	1657.7	1659.4	1661.1	1661.1
162.5°	1671.6	1670.9	1670.6	1670.3	1670.1	1669.7	1671.5	1673.3	1675.0	1676.7	1676.5
165°	1691.3	1690.6	1690.6	1690.6	1690.6	1690.6	1692.8	1695.1	1697.5	1699.8	1699.6
167.5°	1707.6	1706.8	1706.7	1706.5	1706.3	1706.2	1708.7	1711.2	1713.7	1716.3	1716.1
170°	1716.1	1715.4	1715.6	1716.0	1716.2	1716.5	1718.8	1721.1	1723.5	1725.8	1725.4
172.5°	1722.3	1721.6	1721.9	1722.2	1722.4	1722.8	1725.0	1727.3	1729.7	1732.0	1731.6
175°	1729.1	1728.4	1728.6	1728.9	1729.2	1729.5	1732.1	1734.7	1737.3	1739.9	1739.5
177.5°	1732.7	1732.1	1732.5	1733.0	1733.5	1733.9	1735.8	1737.6	1739.5	1741.3	1740.9
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



TEST NUMBER: P333111-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	20.1	19.6	19.2	19.9	19.2	19.6	20.1	18.9	18.7	19.4	18.5
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.5	33.8	32.0
92.5°	35.5	35.6	35.7	35.8	35.7	35.6	35.5	35.4	34.4	32.7	31.0
95°	36.8	37.1	37.4	37.6	37.4	37.1	36.8	36.5	35.5	33.8	32.0
97.5°	35.5	35.8	36.1	36.3	36.1	35.8	35.5	35.2	35.0	34.8	34.6
100°	35.5	35.8	36.1	36.3	36.1	35.8	35.5	35.2	37.5	42.4	47.4
102.5°	37.2	37.3	37.4	37.4	37.4	37.3	37.2	37.2	63.6	116.5	169.4
105°	401.2	390.8	380.5	370.1	380.5	390.8	401.2	411.6	415.5	412.9	410.3
107.5°	512.5	513.5	514.6	515.7	514.6	513.5	512.5	511.3	510.1	508.9	507.6
110°	576.5	577.4	578.2	579.1	578.2	577.4	576.5	575.7	574.9	574.4	573.8



TEST NUMBER: P333111-935

CATALOG NUMBER: S124RDIW-S1195D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	639.2	640.2	641.4	642.5	641.4	640.2	639.2	638.1	637.6	637.7	637.8
115°	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.9	734.6	734.0	733.5
117.5°	829.2	829.1	829.1	828.9	829.1	829.1	829.2	829.4	829.5	829.6	829.7
120°	889.8	889.2	888.7	888.1	888.7	889.2	889.8	890.4	890.4	889.8	889.2
122.5°	948.0	947.4	946.8	946.3	946.8	947.4	948.0	948.6	948.7	948.4	948.0
125°	1032.7	1032.9	1033.3	1033.5	1033.3	1032.9	1032.7	1032.4	1031.8	1031.0	1030.1
127.5°	1110.9	1110.6	1110.3	1110.2	1110.3	1110.6	1110.9	1111.0	1111.3	1111.5	1111.6
130°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1161.9	1161.7	1161.4
132.5°	1210.6	1210.3	1210.1	1209.9	1210.1	1210.3	1210.6	1210.8	1210.7	1210.5	1210.2
135°	1279.8	1280.4	1281.0	1281.5	1281.0	1280.4	1279.8	1279.3	1278.7	1278.1	1277.5
137.5°	1343.3	1343.2	1343.0	1342.8	1343.0	1343.2	1343.3	1343.5	1343.3	1342.6	1342.0
140°	1384.6	1384.8	1385.1	1385.4	1385.1	1384.8	1384.6	1384.2	1383.7	1382.9	1382.0
142.5°	1420.6	1420.6	1420.6	1420.7	1420.6	1420.6	1420.6	1420.5	1420.1	1419.5	1418.9
145°	1473.3	1473.9	1474.5	1475.0	1474.5	1473.9	1473.3	1472.7	1472.2	1472.0	1471.7
147.5°	1519.1	1519.3	1519.7	1519.9	1519.7	1519.3	1519.1	1518.8	1518.5	1518.3	1518.0
150°	1548.2	1548.4	1548.8	1549.0	1548.8	1548.4	1548.2	1547.9	1547.7	1547.7	1547.7
152.5°	1574.4	1574.3	1574.1	1573.9	1574.1	1574.3	1574.4	1574.6	1574.5	1574.0	1573.6
155°	1610.1	1609.2	1608.3	1607.5	1608.3	1609.2	1610.1	1610.9	1610.8	1609.6	1608.4
157.5°	1640.0	1638.5	1637.0	1635.5	1637.0	1638.5	1640.0	1641.5	1641.5	1640.0	1638.5
160°	1659.4	1657.7	1656.0	1654.2	1656.0	1657.7	1659.4	1661.1	1661.1	1659.4	1657.7
162.5°	1674.6	1672.7	1670.7	1668.7	1670.7	1672.7	1674.6	1676.5	1676.7	1675.0	1673.3
165°	1697.0	1694.4	1691.9	1689.3	1691.9	1694.4	1697.0	1699.6	1699.8	1697.5	1695.1
167.5°	1713.2	1710.4	1707.4	1704.6	1707.4	1710.4	1713.2	1716.1	1716.3	1713.7	1711.2
170°	1722.6	1719.7	1716.8	1713.9	1716.8	1719.7	1722.6	1725.4	1725.8	1723.5	1721.1
172.5°	1728.5	1725.4	1722.3	1719.1	1722.3	1725.4	1728.5	1731.6	1732.0	1729.7	1727.3
175°	1735.9	1732.5	1729.1	1725.6	1729.1	1732.5	1735.9	1739.5	1739.9	1737.3	1734.7
177.5°	1738.1	1735.3	1732.5	1729.7	1732.5	1735.3	1738.1	1740.9	1741.3	1739.5	1737.6
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	18.2	18.3	17.9	16.9	17.6	17.0	17.0	16.4	17.5	18.4	19.5
90°	30.3	28.6	26.3	23.9	21.6	19.4	16.6	13.4	10.2	7.1	3.9
92.5°	29.3	27.6	25.2	22.9	20.6	18.3	17.0	16.9	16.7	16.5	16.4
95°	30.3	28.6	28.2	28.0	27.7	27.4	32.2	42.0	51.8	61.6	71.4
97.5°	34.4	34.3	66.5	98.7	130.9	163.1	176.2	170.0	163.8	157.7	151.6
100°	52.3	57.2	96.9	136.7	176.6	216.4	233.7	228.5	223.3	218.2	212.9
102.5°	222.3	275.3	280.4	285.7	290.8	296.0	296.7	292.9	289.1	285.3	281.5
105°	407.7	405.1	403.6	402.3	400.8	399.3	397.8	396.1	394.3	392.5	390.8
107.5°	506.4	505.1	503.1	501.2	499.2	497.2	495.8	495.0	494.1	493.3	492.3
110°	573.2	572.6	570.8	569.1	567.4	565.7	564.4	563.5	562.7	561.8	560.9



TEST NUMBER: P333111-935

CATALOG NUMBER: S124RDIW-S1195D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	637.9	638.1	637.2	636.5	635.6	634.8	633.6	632.1	630.5	629.0	627.4
115°	732.9	732.3	732.6	732.9	733.1	733.5	733.1	732.3	731.4	730.6	729.7
117.5°	829.8	829.9	829.3	828.7	828.0	827.4	826.6	825.4	824.2	823.0	821.9
120°	888.7	888.1	888.4	888.7	889.0	889.2	888.8	887.7	886.6	885.4	884.2
122.5°	947.7	947.4	946.9	946.5	946.2	945.7	945.2	944.4	943.7	943.1	942.4
125°	1029.2	1028.4	1028.9	1029.5	1030.1	1030.6	1030.4	1029.2	1028.0	1026.9	1025.8
127.5°	1111.8	1112.0	1110.6	1109.3	1108.0	1106.6	1105.9	1105.5	1105.3	1105.0	1104.7
130°	1161.1	1160.8	1159.9	1159.1	1158.2	1157.4	1156.8	1156.5	1156.2	1155.9	1155.6
132.5°	1209.9	1209.6	1208.5	1207.4	1206.3	1205.2	1204.5	1203.9	1203.4	1202.8	1202.3
135°	1276.9	1276.3	1275.2	1274.0	1272.9	1271.7	1271.3	1271.6	1271.9	1272.1	1272.5
137.5°	1341.4	1340.7	1339.5	1338.3	1337.0	1335.7	1335.0	1334.9	1334.7	1334.6	1334.6
140°	1381.1	1380.2	1379.7	1379.1	1378.5	1377.9	1377.3	1376.7	1376.2	1375.6	1375.0
142.5°	1418.2	1417.6	1417.3	1416.9	1416.6	1416.3	1415.6	1414.5	1413.5	1412.4	1411.4
145°	1471.4	1471.1	1471.1	1471.1	1471.1	1471.1	1470.7	1469.8	1469.0	1468.1	1467.2
147.5°	1517.9	1517.6	1517.9	1518.2	1518.5	1518.7	1518.1	1516.5	1514.8	1513.2	1511.7
150°	1547.7	1547.7	1548.0	1548.3	1548.6	1548.9	1548.4	1547.3	1546.1	1545.0	1543.9
152.5°	1573.1	1572.6	1573.1	1573.6	1574.2	1574.8	1574.5	1573.6	1572.7	1571.8	1570.8
155°	1607.3	1606.1	1607.1	1607.9	1608.8	1609.6	1609.9	1609.6	1609.3	1609.0	1608.8
157.5°	1637.0	1635.5	1636.5	1637.4	1638.4	1639.4	1640.0	1640.2	1640.4	1640.5	1640.7
160°	1656.0	1654.2	1654.5	1654.8	1655.0	1655.4	1656.0	1656.8	1657.7	1658.5	1659.4
162.5°	1671.5	1669.7	1670.1	1670.3	1670.6	1670.9	1671.6	1672.8	1673.8	1674.9	1676.0
165°	1692.8	1690.6	1690.6	1690.6	1690.6	1690.6	1691.3	1692.7	1694.2	1695.6	1697.0
167.5°	1708.7	1706.2	1706.3	1706.5	1706.7	1706.8	1707.6	1709.2	1710.6	1712.2	1713.6
170°	1718.8	1716.5	1716.2	1716.0	1715.6	1715.4	1716.1	1717.8	1719.5	1721.3	1723.0
172.5°	1725.0	1722.8	1722.4	1722.2	1721.9	1721.6	1722.3	1724.1	1725.8	1727.5	1729.2
175°	1732.1	1729.5	1729.2	1728.9	1728.6	1728.4	1729.1	1730.8	1732.5	1734.2	1735.9
177.5°	1735.8	1733.9	1733.5	1733.0	1732.5	1732.1	1732.7	1734.2	1735.9	1737.5	1739.1
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	19.5	18.5	17.0	17.0	17.7	17.0	18.0	18.4	18.9	18.7	20.1
90°	7.1	10.2	13.4	16.6	19.4	21.6	23.9	26.3	28.6	30.3	32.0
92.5°	16.5	16.7	16.9	17.0	18.3	20.6	22.9	25.2	27.6	29.3	31.0
95°	61.6	51.8	42.0	32.2	27.4	27.7	28.0	28.2	28.6	30.3	32.0
97.5°	157.7	163.8	170.0	176.2	163.1	130.9	98.7	66.5	34.3	34.4	34.6
100°	218.2	223.3	228.5	233.7	216.4	176.6	136.7	96.9	57.2	52.3	47.4
102.5°	285.3	289.1	292.9	296.7	296.0	290.8	285.7	280.4	275.3	222.3	169.4
105°	392.5	394.3	396.1	397.8	399.3	400.8	402.3	403.6	405.1	407.7	410.3
107.5°	493.3	494.1	495.0	495.8	497.2	499.2	501.2	503.1	505.1	506.4	507.6
110°	561.8	562.7	563.5	564.4	565.7	567.4	569.1	570.8	572.6	573.2	573.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	629.0	630.5	632.1	633.6	634.8	635.6	636.5	637.2	638.1	637.9	637.8
115°	730.6	731.4	732.3	733.1	733.5	733.1	732.9	732.6	732.3	732.9	733.5
117.5°	823.0	824.2	825.4	826.6	827.4	828.0	828.7	829.3	829.9	829.8	829.7
120°	885.4	886.6	887.7	888.8	889.2	889.0	888.7	888.4	888.1	888.7	889.2
122.5°	943.1	943.7	944.4	945.2	945.7	946.2	946.5	946.9	947.4	947.7	948.0
125°	1026.9	1028.0	1029.2	1030.4	1030.6	1030.1	1029.5	1028.9	1028.4	1029.2	1030.1
127.5°	1105.0	1105.3	1105.5	1105.9	1106.6	1108.0	1109.3	1110.6	1112.0	1111.8	1111.6
130°	1155.9	1156.2	1156.5	1156.8	1157.4	1158.2	1159.1	1159.9	1160.8	1161.1	1161.4
132.5°	1202.8	1203.4	1203.9	1204.5	1205.2	1206.3	1207.4	1208.5	1209.6	1209.9	1210.2
135°	1272.1	1271.9	1271.6	1271.3	1271.7	1272.9	1274.0	1275.2	1276.3	1276.9	1277.5
137.5°	1334.6	1334.7	1334.9	1335.0	1335.7	1337.0	1338.3	1339.5	1340.7	1341.4	1342.0
140°	1375.6	1376.2	1376.7	1377.3	1377.9	1378.5	1379.1	1379.7	1380.2	1381.1	1382.0
142.5°	1412.4	1413.5	1414.5	1415.6	1416.3	1416.6	1416.9	1417.3	1417.6	1418.2	1418.9
145°	1468.1	1469.0	1469.8	1470.7	1471.1	1471.1	1471.1	1471.1	1471.1	1471.4	1471.7
147.5°	1513.2	1514.8	1516.5	1518.1	1518.7	1518.5	1518.2	1517.9	1517.6	1517.9	1518.0
150°	1545.0	1546.1	1547.3	1548.4	1548.9	1548.6	1548.3	1548.0	1547.7	1547.7	1547.7
152.5°	1571.8	1572.7	1573.6	1574.5	1574.8	1574.2	1573.6	1573.1	1572.6	1573.1	1573.6
155°	1609.0	1609.3	1609.6	1609.9	1609.6	1608.8	1607.9	1607.1	1606.1	1607.3	1608.4
157.5°	1640.5	1640.4	1640.2	1640.0	1639.4	1638.4	1637.4	1636.5	1635.5	1637.0	1638.5
160°	1658.5	1657.7	1656.8	1656.0	1655.4	1655.0	1654.8	1654.5	1654.2	1656.0	1657.7
162.5°	1674.9	1673.8	1672.8	1671.6	1670.9	1670.6	1670.3	1670.1	1669.7	1671.5	1673.3
165°	1695.6	1694.2	1692.7	1691.3	1690.6	1690.6	1690.6	1690.6	1690.6	1692.8	1695.1
167.5°	1712.2	1710.6	1709.2	1707.6	1706.8	1706.7	1706.5	1706.3	1706.2	1708.7	1711.2
170°	1721.3	1719.5	1717.8	1716.1	1715.4	1715.6	1716.0	1716.2	1716.5	1718.8	1721.1
172.5°	1727.5	1725.8	1724.1	1722.3	1721.6	1721.9	1722.2	1722.4	1722.8	1725.0	1727.3
175°	1734.2	1732.5	1730.8	1729.1	1728.4	1728.6	1728.9	1729.2	1729.5	1732.1	1734.7
177.5°	1737.5	1735.9	1734.2	1732.7	1732.1	1732.5	1733.0	1733.5	1733.9	1735.8	1737.6
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	19.4	19.2	20.0	19.5	19.6	19.2	19.9
90°	33.8	35.5	36.7	37.2	37.8	38.4	38.9
92.5°	32.7	34.4	35.4	35.5	35.6	35.7	35.8
95°	33.8	35.5	36.5	36.8	37.1	37.4	37.6
97.5°	34.8	35.0	35.2	35.5	35.8	36.1	36.3
100°	42.4	37.5	35.2	35.5	35.8	36.1	36.3
102.5°	116.5	63.6	37.2	37.2	37.3	37.4	37.4
105°	412.9	415.5	411.6	401.2	390.8	380.5	370.1
107.5°	508.9	510.1	511.3	512.5	513.5	514.6	515.7
110°	574.4	574.9	575.7	576.5	577.4	578.2	579.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	637.7	637.6	638.1	639.2	640.2	641.4	642.5
115°	734.0	734.6	734.9	734.9	734.9	734.9	734.9
117.5°	829.6	829.5	829.4	829.2	829.1	829.1	828.9
120°	889.8	890.4	890.4	889.8	889.2	888.7	888.1
122.5°	948.4	948.7	948.6	948.0	947.4	946.8	946.3
125°	1031.0	1031.8	1032.4	1032.7	1032.9	1033.3	1033.5
127.5°	1111.5	1111.3	1111.0	1110.9	1110.6	1110.3	1110.2
130°	1161.7	1161.9	1162.1	1162.1	1162.1	1162.1	1162.1
132.5°	1210.5	1210.7	1210.8	1210.6	1210.3	1210.1	1209.9
135°	1278.1	1278.7	1279.3	1279.8	1280.4	1281.0	1281.5
137.5°	1342.6	1343.3	1343.5	1343.3	1343.2	1343.0	1342.8
140°	1382.9	1383.7	1384.2	1384.6	1384.8	1385.1	1385.4
142.5°	1419.5	1420.1	1420.5	1420.6	1420.6	1420.6	1420.7
145°	1472.0	1472.2	1472.7	1473.3	1473.9	1474.5	1475.0
147.5°	1518.3	1518.5	1518.8	1519.1	1519.3	1519.7	1519.9
150°	1547.7	1547.7	1547.9	1548.2	1548.4	1548.8	1549.0
152.5°	1574.0	1574.5	1574.6	1574.4	1574.3	1574.1	1573.9
155°	1609.6	1610.8	1610.9	1610.1	1609.2	1608.3	1607.5
157.5°	1640.0	1641.5	1641.5	1640.0	1638.5	1637.0	1635.5
160°	1659.4	1661.1	1661.1	1659.4	1657.7	1656.0	1654.2
162.5°	1675.0	1676.7	1676.5	1674.6	1672.7	1670.7	1668.7
165°	1697.5	1699.8	1699.6	1697.0	1694.4	1691.9	1689.3
167.5°	1713.7	1716.3	1716.1	1713.2	1710.4	1707.4	1704.6
170°	1723.5	1725.8	1725.4	1722.6	1719.7	1716.8	1713.9
172.5°	1729.7	1732.0	1731.6	1728.5	1725.4	1722.3	1719.1
175°	1737.3	1739.9	1739.5	1735.9	1732.5	1729.1	1725.6
177.5°	1739.5	1741.3	1740.9	1738.1	1735.3	1732.5	1729.7
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9

(END OF REPORT)