

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: P332829-935

Luminaire Tested: **S124DIW-S1020D1560U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332829-935
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: S124DIW-S1020D1560U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9339.3 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

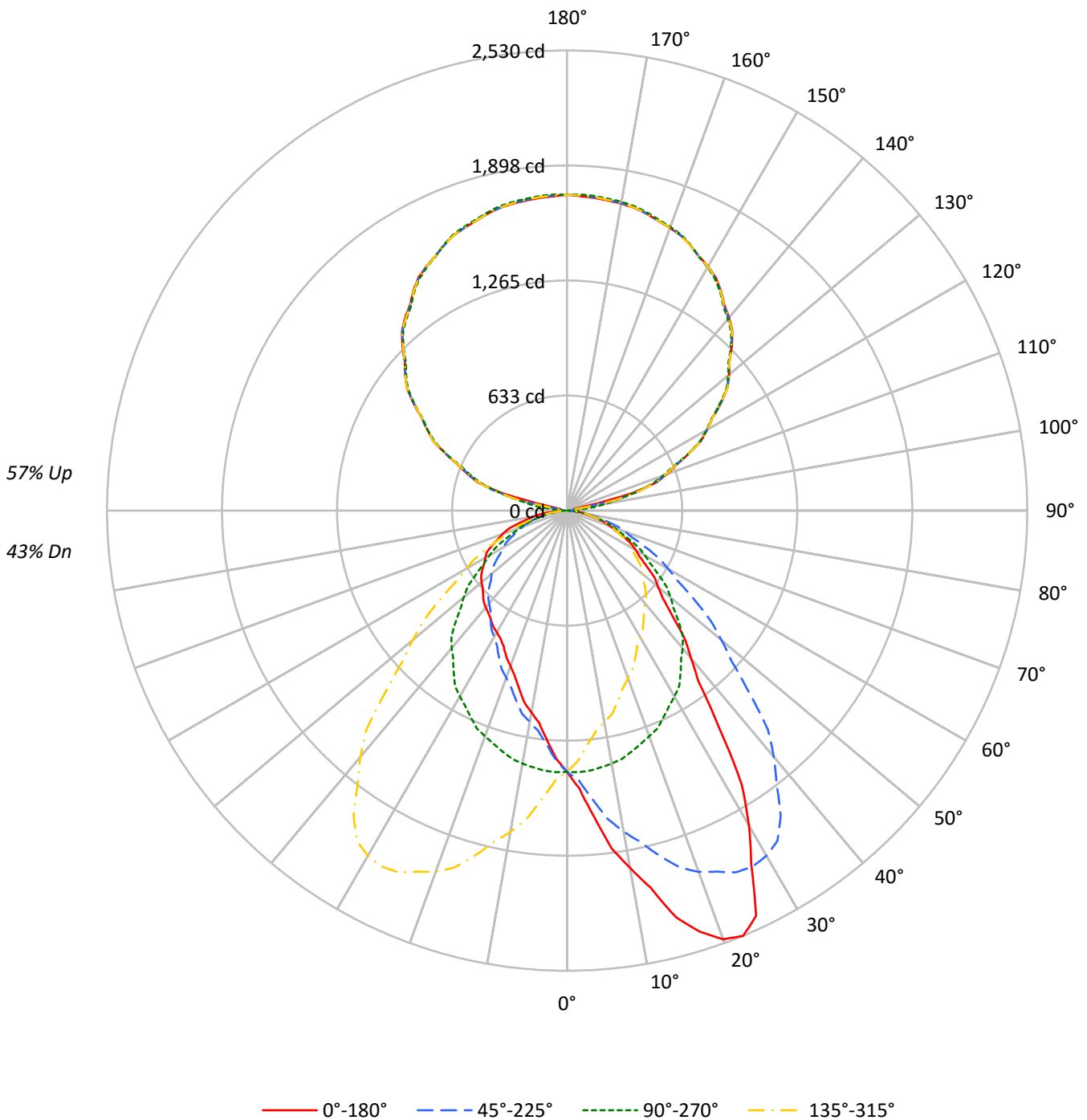
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15	13
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11599	11599	11599	11599
5°	13661	11629	10264	11629
10°	16356	11579	9241	11579
15°	19351	11462	8487	11462
20°	21549	11342	7814	11342
25°	21896	11166	7349	11166
30°	18632	10997	7202	10997
35°	14325	10723	7203	10723
40°	11166	10400	7339	10400
45°	9310	9914	7462	9914
50°	8194	9323	7714	9323
55°	7506	8612	8025	8612
60°	7035	7976	8399	7976
65°	6550	7265	8709	7265
70°	5986	6559	8908	6559
75°	5346	5774	8799	5774
80°	4482	4733	8522	4733
85°	3307	3418	8160	3418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.5
10°-20°	431.5	4.6
20°-30°	684.2	7.3
30°-40°	761.4	8.2
40°-50°	693.1	7.4
50°-60°	566.4	6.1
60°-70°	404.3	4.3
70°-80°	222.6	2.4
80°-90°	65.8	0.7
90°-100°	59.4	0.6
100°-110°	378.6	4.1
110°-120°	724.2	7.8
120°-130°	919.3	9.8
130°-140°	983.6	10.5
140°-150°	919.8	9.8
150°-160°	741.8	7.9
160°-170°	478.4	5.1
170°-180°	164.9	1.8
0°-30°	1255.6	13.4
0°-40°	2017.1	21.6
0°-60°	3276.5	35.1
0°-90°	3969.3	42.5
90°-120°	1162.1	12.4
90°-150°	3984.9	42.7
90°-180°	5370.0	57.5
0°-180°	9339.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1437	1437	1437	1437	1437	
5°	1686	1435	1267	1435	1686	171
15°	2315	1371	1016	1371	2315	654
25°	2458	1254	825	1254	2458	1084
35°	1454	1088	731	1088	1454	923
45°	816	868	654	868	816	642
55°	533	612	570	612	533	482
65°	343	380	456	380	343	339
75°	171	185	282	185	171	182
85°	36	37	88	37	36	45
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°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1529.2	1528.8	1524.0	1523.0	1519.7	1515.4	1514.5	1506.8	1491.6	1484.5	1482.6
5°	1685.7	1697.5	1682.0	1679.1	1677.3	1657.7	1647.5	1635.6	1608.3	1592.2	1579.7
7.5°	1872.3	1873.7	1867.0	1861.5	1846.3	1829.2	1803.5	1776.2	1743.5	1709.6	1683.9
10°	1995.2	1999.9	1992.2	1991.0	1960.7	1941.6	1903.5	1871.4	1834.4	1793.4	1755.9
12.5°	2124.7	2118.0	2114.1	2088.6	2083.0	2048.2	2004.0	1970.9	1914.0	1866.7	1816.8
15°	2315.4	2302.3	2294.0	2258.8	2241.6	2193.4	2146.3	2110.1	2035.7	1964.8	1911.2
17.5°	2427.2	2440.4	2421.1	2406.7	2362.1	2328.2	2280.2	2204.0	2145.8	2057.8	1990.2
20°	2508.3	2509.4	2498.7	2483.8	2448.7	2405.9	2353.5	2270.1	2200.5	2113.0	2020.2
22.5°	2530.1	2530.4	2525.8	2511.9	2485.4	2450.6	2397.8	2328.2	2243.9	2148.7	2055.9
25°	2458.2	2455.8	2461.3	2476.7	2466.6	2455.8	2425.5	2373.7	2295.2	2194.5	2094.6
27.5°	2191.1	2207.5	2237.7	2275.9	2312.6	2340.5	2348.4	2337.8	2289.1	2206.3	2101.6
30°	1998.7	2019.0	2041.6	2079.7	2153.4	2195.7	2242.2	2277.3	2257.6	2191.6	2094.0
32.5°	1787.3	1792.3	1825.9	1869.2	1936.8	2018.1	2091.7	2163.0	2186.7	2152.1	2070.6
35°	1453.5	1461.8	1498.1	1541.0	1623.8	1723.1	1833.8	1932.7	2014.2	2046.9	2005.3
37.5°	1186.1	1210.0	1235.7	1281.8	1354.6	1444.1	1559.1	1687.0	1808.5	1889.9	1903.8
40°	1059.5	1074.4	1092.8	1127.9	1189.8	1277.9	1376.7	1523.2	1652.3	1769.0	1807.1
42.5°	959.5	968.2	979.5	1011.2	1058.4	1146.0	1236.2	1365.0	1494.7	1634.2	1698.1
45°	815.5	824.4	843.4	861.9	897.6	958.3	1042.2	1148.1	1278.5	1413.1	1530.9
47.5°	711.4	717.1	728.4	748.2	778.5	818.6	886.8	975.3	1096.1	1226.8	1352.3
50°	652.4	657.1	666.1	683.9	707.1	742.8	798.7	881.5	976.1	1107.7	1230.9
52.5°	605.7	607.6	614.2	626.3	644.7	674.8	720.7	789.1	877.1	994.4	1117.1
55°	533.3	535.7	541.7	550.6	566.6	585.7	620.8	672.0	748.8	850.6	957.1
57.5°	473.8	475.4	480.4	483.9	497.1	512.6	539.6	576.2	634.4	720.7	815.8
60°	435.7	434.5	440.5	443.4	452.4	465.5	486.3	521.4	572.0	641.6	729.1
62.5°	398.6	396.9	401.9	405.8	411.0	422.1	439.1	466.7	507.7	570.7	646.3
65°	342.9	340.4	343.5	348.2	352.9	359.0	371.4	395.8	428.5	473.8	531.5
67.5°	286.9	289.4	289.9	292.2	295.0	303.1	311.7	328.9	352.0	388.2	437.1
70°	253.6	254.2	256.6	256.6	258.3	265.4	272.6	282.8	305.3	338.7	378.6
72.5°	220.2	222.7	221.8	223.7	225.0	229.7	235.0	244.6	263.9	288.7	322.4
75°	171.4	173.2	173.2	173.8	175.6	177.4	181.5	188.6	202.3	220.8	244.0
77.5°	125.0	125.3	126.1	128.2	128.2	131.0	134.1	139.9	146.6	159.3	173.4
80°	96.4	97.6	97.0	98.2	98.2	100.6	101.8	108.9	111.9	120.2	131.6
82.5°	70.7	71.9	71.8	73.4	74.4	74.9	76.5	79.4	82.4	89.7	94.4
85°	35.7	36.9	35.7	36.9	38.7	39.3	41.1	41.7	44.1	45.8	50.0
87.5°	18.3	19.5	19.5	19.8	20.7	20.9	21.0	20.2	21.8	21.9	23.3
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°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1483.1	1476.4	1471.6	1467.8	1457.3	1451.1	1446.4	1439.7	1432.1	1424.0	1414.0
5°	1567.2	1547.0	1532.1	1509.5	1488.1	1470.2	1451.7	1435.0	1414.8	1392.8	1376.7
7.5°	1655.6	1625.6	1587.0	1553.5	1515.9	1483.2	1453.9	1423.8	1392.7	1362.4	1334.7
10°	1711.8	1673.2	1630.3	1579.7	1532.1	1489.8	1450.5	1412.5	1375.5	1338.6	1307.1
12.5°	1772.3	1724.1	1660.8	1601.6	1548.3	1491.8	1444.3	1397.7	1353.1	1314.3	1277.6
15°	1853.5	1783.8	1710.6	1631.5	1561.3	1495.2	1430.3	1371.4	1321.4	1270.1	1234.5
17.5°	1903.4	1817.2	1733.5	1650.8	1565.7	1482.5	1412.5	1344.5	1281.9	1231.1	1186.0
20°	1936.2	1850.5	1746.4	1663.6	1562.5	1476.7	1395.8	1320.2	1254.7	1200.6	1154.1
22.5°	1964.8	1865.8	1761.6	1652.7	1552.0	1461.0	1372.4	1296.4	1229.5	1172.4	1127.9
25°	1980.3	1866.6	1753.5	1645.2	1530.9	1423.1	1342.8	1253.5	1182.1	1122.0	1074.4
27.5°	1981.9	1860.4	1732.4	1612.1	1494.1	1393.8	1292.4	1212.5	1138.4	1074.9	1029.2
30°	1976.7	1849.9	1712.4	1582.1	1463.6	1354.7	1266.6	1179.7	1104.1	1041.0	993.4
32.5°	1960.1	1828.0	1686.7	1548.8	1426.0	1319.5	1228.6	1145.9	1072.2	1010.0	960.1
35°	1911.9	1781.5	1630.9	1487.5	1361.8	1254.1	1172.0	1088.0	1014.3	955.3	907.1
37.5°	1836.5	1718.6	1565.6	1417.1	1293.7	1185.5	1104.1	1028.3	961.7	901.9	852.5
40°	1770.7	1667.2	1513.6	1369.0	1235.7	1132.7	1056.5	986.9	920.8	864.3	817.3
42.5°	1695.1	1604.8	1463.2	1309.9	1181.4	1078.0	1003.7	941.2	878.9	826.6	779.6
45°	1560.0	1500.6	1367.2	1225.5	1091.7	994.0	923.2	868.4	816.1	764.8	725.6
47.5°	1404.8	1375.3	1263.1	1128.5	1001.4	905.2	843.8	793.2	747.3	703.9	669.3
50°	1300.5	1286.2	1189.2	1059.5	938.1	847.6	785.7	742.3	702.9	664.9	632.1
52.5°	1197.7	1197.2	1109.7	990.9	878.6	791.4	730.0	689.4	655.3	624.4	595.0
55°	1040.4	1057.1	988.7	882.7	782.1	703.5	648.2	611.9	588.1	562.5	540.4
57.5°	896.0	923.7	867.2	773.9	690.0	617.6	569.4	542.1	516.8	501.3	485.3
60°	801.8	827.9	783.9	705.3	626.2	564.3	518.4	494.0	472.0	461.3	450.0
62.5°	718.0	741.3	708.7	635.8	567.1	507.6	468.9	445.5	430.6	418.9	411.4
65°	598.2	617.9	589.9	536.9	477.9	430.3	398.8	380.3	366.1	361.3	352.9
67.5°	483.5	501.4	486.3	441.3	394.0	358.0	333.3	315.6	307.1	303.0	297.0
70°	415.4	433.3	417.2	378.0	341.6	311.3	288.1	277.9	269.1	267.3	258.9
72.5°	357.8	370.0	354.0	323.2	292.1	266.6	248.6	238.0	233.3	230.1	225.6
75°	268.5	279.1	268.5	244.6	222.6	204.7	189.2	185.1	179.8	178.0	175.0
77.5°	190.0	199.2	191.1	176.2	159.7	145.9	137.6	132.2	131.0	127.9	129.4
80°	145.3	151.2	143.4	133.4	120.2	110.7	104.8	101.8	98.2	97.0	99.4
82.5°	104.3	106.9	103.0	96.2	86.4	80.2	76.2	72.8	72.0	72.2	72.2
85°	54.2	53.6	53.0	47.0	44.1	39.9	37.5	36.9	36.3	37.5	38.7
87.5°	22.9	22.9	22.0	19.5	17.5	15.4	14.3	13.2	14.3	15.4	16.5
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: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-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: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1409.2	1405.0	1398.8	1390.2	1383.0	1375.4	1373.6	1370.6	1376.4	1371.6	1370.2
5°	1363.0	1350.6	1334.5	1316.0	1305.3	1289.9	1286.9	1280.9	1275.0	1274.4	1268.4
7.5°	1314.1	1295.8	1274.7	1255.9	1238.5	1221.6	1210.6	1208.2	1199.4	1194.2	1188.3
10°	1282.7	1260.1	1235.7	1217.8	1197.6	1179.7	1167.3	1160.1	1154.1	1147.5	1141.6
12.5°	1245.5	1221.5	1201.4	1182.1	1158.0	1144.4	1123.9	1111.5	1110.3	1110.4	1094.9
15°	1202.3	1178.5	1147.5	1120.2	1107.1	1080.9	1069.6	1055.3	1046.4	1037.4	1030.4
17.5°	1153.0	1123.3	1099.2	1067.7	1042.7	1021.8	1007.0	998.4	985.0	972.3	963.2
20°	1122.0	1090.5	1064.8	1031.5	1004.1	978.5	966.0	954.2	944.0	933.3	923.2
22.5°	1090.5	1057.6	1026.2	993.9	968.5	941.4	929.4	913.2	903.5	897.6	887.4
25°	1041.0	1005.3	969.6	938.7	912.5	888.6	872.6	860.1	849.4	844.6	838.1
27.5°	987.2	951.7	917.2	882.1	852.4	835.1	822.3	812.8	806.7	800.3	797.4
30°	953.0	916.0	879.2	846.4	819.0	801.8	789.9	783.3	778.5	775.6	772.6
32.5°	918.2	881.8	842.9	813.0	788.5	773.2	764.1	757.6	755.2	754.1	753.0
35°	862.5	825.5	789.9	763.1	739.9	733.9	726.2	722.6	721.4	725.6	727.4
37.5°	808.6	774.3	741.4	715.4	700.3	691.6	688.9	689.1	693.3	697.0	701.3
40°	773.8	740.5	709.5	686.9	672.6	667.3	666.1	669.0	673.8	678.0	682.7
42.5°	739.9	707.1	679.0	657.8	647.8	642.9	643.7	646.6	653.3	658.4	665.6
45°	687.5	660.1	632.7	615.4	607.1	608.3	608.3	613.6	620.2	627.9	635.7
47.5°	638.1	610.4	588.0	573.4	569.1	568.1	571.4	578.4	587.8	597.4	608.2
50°	604.8	578.5	558.9	545.8	541.1	542.9	547.6	554.1	565.4	577.4	588.7
52.5°	570.9	547.1	528.9	516.8	513.4	516.7	521.4	531.8	541.7	554.5	568.2
55°	518.4	498.2	483.9	475.0	473.8	475.6	481.0	492.2	506.5	522.6	535.7
57.5°	466.1	449.3	436.2	430.0	430.6	432.2	441.1	454.5	469.8	486.9	503.8
60°	430.9	415.4	404.8	400.0	400.5	404.2	414.8	427.4	446.4	463.0	481.0
62.5°	397.6	384.0	373.8	369.5	368.7	376.5	386.8	399.8	418.8	437.4	456.7
65°	344.1	333.3	325.0	322.6	324.4	330.4	343.5	360.7	376.8	396.4	416.6
67.5°	291.6	282.8	277.2	278.2	280.3	289.1	300.1	315.0	333.2	353.5	373.6
70°	258.3	249.9	245.2	245.8	249.4	260.1	269.7	284.5	304.2	325.0	341.6
72.5°	224.0	218.5	214.3	216.8	220.3	227.7	239.6	254.5	271.8	291.2	308.8
75°	172.0	172.0	169.6	171.4	176.8	183.9	192.9	208.4	225.6	241.1	255.4
77.5°	127.6	126.3	127.9	130.0	133.1	141.5	151.8	162.8	175.8	191.3	203.1
80°	97.6	98.2	101.2	104.8	106.0	112.5	123.2	133.4	143.4	156.5	167.8
82.5°	73.4	74.0	75.5	80.0	81.2	88.3	95.1	105.2	114.4	123.2	132.6
85°	39.9	39.9	42.9	44.6	47.6	52.3	56.6	62.5	70.9	76.8	85.7
87.5°	18.6	19.1	21.4	22.9	24.8	27.6	28.9	34.5	36.8	39.5	44.0
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: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-UDD-A

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: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1369.2	1368.3	1364.9	1364.5	1364.9	1368.3	1369.2	1370.2	1371.6	1376.4	1370.6
5°	1264.8	1261.9	1260.1	1266.6	1260.1	1261.9	1264.8	1268.4	1274.4	1275.0	1280.9
7.5°	1186.1	1183.8	1178.5	1176.9	1178.5	1183.8	1186.1	1188.3	1194.2	1199.4	1208.2
10°	1135.7	1133.2	1128.5	1127.3	1128.5	1133.2	1135.7	1141.6	1147.5	1154.1	1160.1
12.5°	1087.1	1082.4	1081.4	1082.5	1081.4	1082.4	1087.1	1094.9	1110.4	1110.3	1111.5
15°	1022.6	1020.2	1013.7	1015.5	1013.7	1020.2	1022.6	1030.4	1037.4	1046.4	1055.3
17.5°	959.0	956.1	948.2	955.2	948.2	956.1	959.0	963.2	972.3	985.0	998.4
20°	919.0	914.2	910.1	909.5	910.1	914.2	919.0	923.2	933.3	944.0	954.2
22.5°	880.9	876.7	876.2	872.4	876.2	876.7	880.9	887.4	897.6	903.5	913.2
25°	833.3	829.1	827.9	825.0	827.9	829.1	833.3	838.1	844.6	849.4	860.1
27.5°	796.8	794.7	792.6	793.5	792.6	794.7	796.8	797.4	800.3	806.7	812.8
30°	774.4	773.8	772.6	772.6	772.6	773.8	774.4	772.6	775.6	778.5	783.3
32.5°	755.8	755.7	756.4	756.4	756.4	755.7	755.8	753.0	754.1	755.2	757.6
35°	729.7	731.5	732.7	730.9	732.7	731.5	729.7	727.4	725.6	721.4	722.6
37.5°	706.2	707.9	709.6	711.6	709.6	707.9	706.2	701.3	697.0	693.3	689.1
40°	688.0	692.2	693.4	696.4	693.4	692.2	688.0	682.7	678.0	673.8	669.0
42.5°	670.9	675.5	678.6	679.2	678.6	675.5	670.9	665.6	658.4	653.3	646.6
45°	644.6	649.4	653.6	653.6	653.6	649.4	644.6	635.7	627.9	620.2	613.6
47.5°	617.3	624.2	628.4	629.5	628.4	624.2	617.3	608.2	597.4	587.8	578.4
50°	598.8	607.1	611.3	614.2	611.3	607.1	598.8	588.7	577.4	565.4	554.1
52.5°	580.7	589.0	594.6	596.2	594.6	589.0	580.7	568.2	554.5	541.7	531.8
55°	549.4	561.3	567.8	570.2	567.8	561.3	549.4	535.7	522.6	506.5	492.2
57.5°	519.9	530.8	538.5	540.2	538.5	530.8	519.9	503.8	486.9	469.8	454.5
60°	497.0	508.9	518.4	520.2	518.4	508.9	497.0	481.0	463.0	446.4	427.4
62.5°	473.6	486.0	494.6	499.3	494.6	486.0	473.6	456.7	437.4	418.8	399.8
65°	433.3	445.8	454.2	455.9	454.2	445.8	433.3	416.6	396.4	376.8	360.7
67.5°	389.3	401.7	407.3	410.7	407.3	401.7	389.3	373.6	353.5	333.2	315.0
70°	358.3	368.4	374.4	377.4	374.4	368.4	358.3	341.6	325.0	304.2	284.5
72.5°	323.0	333.6	340.6	341.2	340.6	333.6	323.0	308.8	291.2	271.8	254.5
75°	269.1	278.5	282.1	282.1	282.1	278.5	269.1	255.4	241.1	225.6	208.4
77.5°	212.9	217.8	222.4	223.3	222.4	217.8	212.9	203.1	191.3	175.8	162.8
80°	176.8	179.8	183.3	183.3	183.3	179.8	176.8	167.8	156.5	143.4	133.4
82.5°	139.7	142.2	145.7	145.3	145.7	142.2	139.7	132.6	123.2	114.4	105.2
85°	84.6	89.9	89.3	88.1	89.3	89.9	84.6	85.7	76.8	70.9	62.5
87.5°	45.5	46.1	47.7	48.7	47.7	46.1	45.5	44.0	39.5	36.8	34.5
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: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-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



TEST NUMBER: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1373.6	1375.4	1383.0	1390.2	1398.8	1405.0	1409.2	1414.0	1424.0	1432.1	1439.7
5°	1286.9	1289.9	1305.3	1316.0	1334.5	1350.6	1363.0	1376.7	1392.8	1414.8	1435.0
7.5°	1210.6	1221.6	1238.5	1255.9	1274.7	1295.8	1314.1	1334.7	1362.4	1392.7	1423.8
10°	1167.3	1179.7	1197.6	1217.8	1235.7	1260.1	1282.7	1307.1	1338.6	1375.5	1412.5
12.5°	1123.9	1144.4	1158.0	1182.1	1201.4	1221.5	1245.5	1277.6	1314.3	1353.1	1397.7
15°	1069.6	1080.9	1107.1	1120.2	1147.5	1178.5	1202.3	1234.5	1270.1	1321.4	1371.4
17.5°	1007.0	1021.8	1042.7	1067.7	1099.2	1123.3	1153.0	1186.0	1231.1	1281.9	1344.5
20°	966.0	978.5	1004.1	1031.5	1064.8	1090.5	1122.0	1154.1	1200.6	1254.7	1320.2
22.5°	929.4	941.4	968.5	993.9	1026.2	1057.6	1090.5	1127.9	1172.4	1229.5	1296.4
25°	872.6	888.6	912.5	938.7	969.6	1005.3	1041.0	1074.4	1122.0	1182.1	1253.5
27.5°	822.3	835.1	852.4	882.1	917.2	951.7	987.2	1029.2	1074.9	1138.4	1212.5
30°	789.9	801.8	819.0	846.4	879.2	916.0	953.0	993.4	1041.0	1104.1	1179.7
32.5°	764.1	773.2	788.5	813.0	842.9	881.8	918.2	960.1	1010.0	1072.2	1145.9
35°	726.2	733.9	739.9	763.1	789.9	825.5	862.5	907.1	955.3	1014.3	1088.0
37.5°	688.9	691.6	700.3	715.4	741.4	774.3	808.6	852.5	901.9	961.7	1028.3
40°	666.1	667.3	672.6	686.9	709.5	740.5	773.8	817.3	864.3	920.8	986.9
42.5°	643.7	642.9	647.8	657.8	679.0	707.1	739.9	779.6	826.6	878.9	941.2
45°	608.3	608.3	607.1	615.4	632.7	660.1	687.5	725.6	764.8	816.1	868.4
47.5°	571.4	568.1	569.1	573.4	588.0	610.4	638.1	669.3	703.9	747.3	793.2
50°	547.6	542.9	541.1	545.8	558.9	578.5	604.8	632.1	664.9	702.9	742.3
52.5°	521.4	516.7	513.4	516.8	528.9	547.1	570.9	595.0	624.4	655.3	689.4
55°	481.0	475.6	473.8	475.0	483.9	498.2	518.4	540.4	562.5	588.1	611.9
57.5°	441.1	432.2	430.6	430.0	436.2	449.3	466.1	485.3	501.3	516.8	542.1
60°	414.8	404.2	400.5	400.0	404.8	415.4	430.9	450.0	461.3	472.0	494.0
62.5°	386.8	376.5	368.7	369.5	373.8	384.0	397.6	411.4	418.9	430.6	445.5
65°	343.5	330.4	324.4	322.6	325.0	333.3	344.1	352.9	361.3	366.1	380.3
67.5°	300.1	289.1	280.3	278.2	277.2	282.8	291.6	297.0	303.0	307.1	315.6
70°	269.7	260.1	249.4	245.8	245.2	249.9	258.3	258.9	267.3	269.1	277.9
72.5°	239.6	227.7	220.3	216.8	214.3	218.5	224.0	225.6	230.1	233.3	238.0
75°	192.9	183.9	176.8	171.4	169.6	172.0	172.0	175.0	178.0	179.8	185.1
77.5°	151.8	141.5	133.1	130.0	127.9	126.3	127.6	129.4	127.9	131.0	132.2
80°	123.2	112.5	106.0	104.8	101.2	98.2	97.6	99.4	97.0	98.2	101.8
82.5°	95.1	88.3	81.2	80.0	75.5	74.0	73.4	72.2	72.2	72.0	72.8
85°	56.6	52.3	47.6	44.6	42.9	39.9	39.9	38.7	37.5	36.3	36.9
87.5°	28.9	27.6	24.8	22.9	21.4	19.1	18.6	16.5	15.4	14.3	13.2
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: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-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



TEST NUMBER: P332829-935

CATALOG NUMBER: S124DIW-S1020D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1446.4	1451.1	1457.3	1467.8	1471.6	1476.4	1483.1	1482.6	1484.5	1491.6	1506.8
5°	1451.7	1470.2	1488.1	1509.5	1532.1	1547.0	1567.2	1579.7	1592.2	1608.3	1635.6
7.5°	1453.9	1483.2	1515.9	1553.5	1587.0	1625.6	1655.6	1683.9	1709.6	1743.5	1776.2
10°	1450.5	1489.8	1532.1	1579.7	1630.3	1673.2	1711.8	1755.9	1793.4	1834.4	1871.4
12.5°	1444.3	1491.8	1548.3	1601.6	1660.8	1724.1	1772.3	1816.8	1866.7	1914.0	1970.9
15°	1430.3	1495.2	1561.3	1631.5	1710.6	1783.8	1853.5	1911.2	1964.8	2035.7	2110.1
17.5°	1412.5	1482.5	1565.7	1650.8	1733.5	1817.2	1903.4	1990.2	2057.8	2145.8	2204.0
20°	1395.8	1476.7	1562.5	1663.6	1746.4	1850.5	1936.2	2020.2	2113.0	2200.5	2270.1
22.5°	1372.4	1461.0	1552.0	1652.7	1761.6	1865.8	1964.8	2055.9	2148.7	2243.9	2328.2
25°	1342.8	1423.1	1530.9	1645.2	1753.5	1866.6	1980.3	2094.6	2194.5	2295.2	2373.7
27.5°	1292.4	1393.8	1494.1	1612.1	1732.4	1860.4	1981.9	2101.6	2206.3	2289.1	2337.8
30°	1266.6	1354.7	1463.6	1582.1	1712.4	1849.9	1976.7	2094.0	2191.6	2257.6	2277.3
32.5°	1228.6	1319.5	1426.0	1548.8	1686.7	1828.0	1960.1	2070.6	2152.1	2186.7	2163.0
35°	1172.0	1254.1	1361.8	1487.5	1630.9	1781.5	1911.9	2005.3	2046.9	2014.2	1932.7
37.5°	1104.1	1185.5	1293.7	1417.1	1565.6	1718.6	1836.5	1903.8	1889.9	1808.5	1687.0
40°	1056.5	1132.7	1235.7	1369.0	1513.6	1667.2	1770.7	1807.1	1769.0	1652.3	1523.2
42.5°	1003.7	1078.0	1181.4	1309.9	1463.2	1604.8	1695.1	1698.1	1634.2	1494.7	1365.0
45°	923.2	994.0	1091.7	1225.5	1367.2	1500.6	1560.0	1530.9	1413.1	1278.5	1148.1
47.5°	843.8	905.2	1001.4	1128.5	1263.1	1375.3	1404.8	1352.3	1226.8	1096.1	975.3
50°	785.7	847.6	938.1	1059.5	1189.2	1286.2	1300.5	1230.9	1107.7	976.1	881.5
52.5°	730.0	791.4	878.6	990.9	1109.7	1197.2	1197.7	1117.1	994.4	877.1	789.1
55°	648.2	703.5	782.1	882.7	988.7	1057.1	1040.4	957.1	850.6	748.8	672.0
57.5°	569.4	617.6	690.0	773.9	867.2	923.7	896.0	815.8	720.7	634.4	576.2
60°	518.4	564.3	626.2	705.3	783.9	827.9	801.8	729.1	641.6	572.0	521.4
62.5°	468.9	507.6	567.1	635.8	708.7	741.3	718.0	646.3	570.7	507.7	466.7
65°	398.8	430.3	477.9	536.9	589.9	617.9	598.2	531.5	473.8	428.5	395.8
67.5°	333.3	358.0	394.0	441.3	486.3	501.4	483.5	437.1	388.2	352.0	328.9
70°	288.1	311.3	341.6	378.0	417.2	433.3	415.4	378.6	338.7	305.3	282.8
72.5°	248.6	266.6	292.1	323.2	354.0	370.0	357.8	322.4	288.7	263.9	244.6
75°	189.2	204.7	222.6	244.6	268.5	279.1	268.5	244.0	220.8	202.3	188.6
77.5°	137.6	145.9	159.7	176.2	191.1	199.2	190.0	173.4	159.3	146.6	139.9
80°	104.8	110.7	120.2	133.4	143.4	151.2	145.3	131.6	120.2	111.9	108.9
82.5°	76.2	80.2	86.4	96.2	103.0	106.9	104.3	94.4	89.7	82.4	79.4
85°	37.5	39.9	44.1	47.0	53.0	53.6	54.2	50.0	45.8	44.1	41.7
87.5°	14.3	15.4	17.5	19.5	22.0	22.9	22.9	23.3	21.9	21.8	20.2
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°	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8	1436.8
2.5°	1514.5	1515.4	1519.7	1523.0	1524.0	1528.8	1529.2
5°	1647.5	1657.7	1677.3	1679.1	1682.0	1697.5	1685.7
7.5°	1803.5	1829.2	1846.3	1861.5	1867.0	1873.7	1872.3
10°	1903.5	1941.6	1960.7	1991.0	1992.2	1999.9	1995.2
12.5°	2004.0	2048.2	2083.0	2088.6	2114.1	2118.0	2124.7
15°	2146.3	2193.4	2241.6	2258.8	2294.0	2302.3	2315.4
17.5°	2280.2	2328.2	2362.1	2406.7	2421.1	2440.4	2427.2
20°	2353.5	2405.9	2448.7	2483.8	2498.7	2509.4	2508.3
22.5°	2397.8	2450.6	2485.4	2511.9	2525.8	2530.4	2530.1
25°	2425.5	2455.8	2466.6	2476.7	2461.3	2455.8	2458.2
27.5°	2348.4	2340.5	2312.6	2275.9	2237.7	2207.5	2191.1
30°	2242.2	2195.7	2153.4	2079.7	2041.6	2019.0	1998.7
32.5°	2091.7	2018.1	1936.8	1869.2	1825.9	1792.3	1787.3
35°	1833.8	1723.1	1623.8	1541.0	1498.1	1461.8	1453.5
37.5°	1559.1	1444.1	1354.6	1281.8	1235.7	1210.0	1186.1
40°	1376.7	1277.9	1189.8	1127.9	1092.8	1074.4	1059.5
42.5°	1236.2	1146.0	1058.4	1011.2	979.5	968.2	959.5
45°	1042.2	958.3	897.6	861.9	843.4	824.4	815.5
47.5°	886.8	818.6	778.5	748.2	728.4	717.1	711.4
50°	798.7	742.8	707.1	683.9	666.1	657.1	652.4
52.5°	720.7	674.8	644.7	626.3	614.2	607.6	605.7
55°	620.8	585.7	566.6	550.6	541.7	535.7	533.3
57.5°	539.6	512.6	497.1	483.9	480.4	475.4	473.8
60°	486.3	465.5	452.4	443.4	440.5	434.5	435.7
62.5°	439.1	422.1	411.0	405.8	401.9	396.9	398.6
65°	371.4	359.0	352.9	348.2	343.5	340.4	342.9
67.5°	311.7	303.1	295.0	292.2	289.9	289.4	286.9
70°	272.6	265.4	258.3	256.6	256.6	254.2	253.6
72.5°	235.0	229.7	225.0	223.7	221.8	222.7	220.2
75°	181.5	177.4	175.6	173.8	173.2	173.2	171.4
77.5°	134.1	131.0	128.2	128.2	126.1	125.3	125.0
80°	101.8	100.6	98.2	98.2	97.0	97.6	96.4
82.5°	76.5	74.9	74.4	73.4	71.8	71.9	70.7
85°	41.1	39.3	38.7	36.9	35.7	36.9	35.7
87.5°	21.0	20.9	20.7	19.8	19.5	19.5	18.3
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)