

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: P333454-935

Luminaire Tested: **S125DIW-S1090D1560U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333454-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S1090D1560U935-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 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: 9236.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

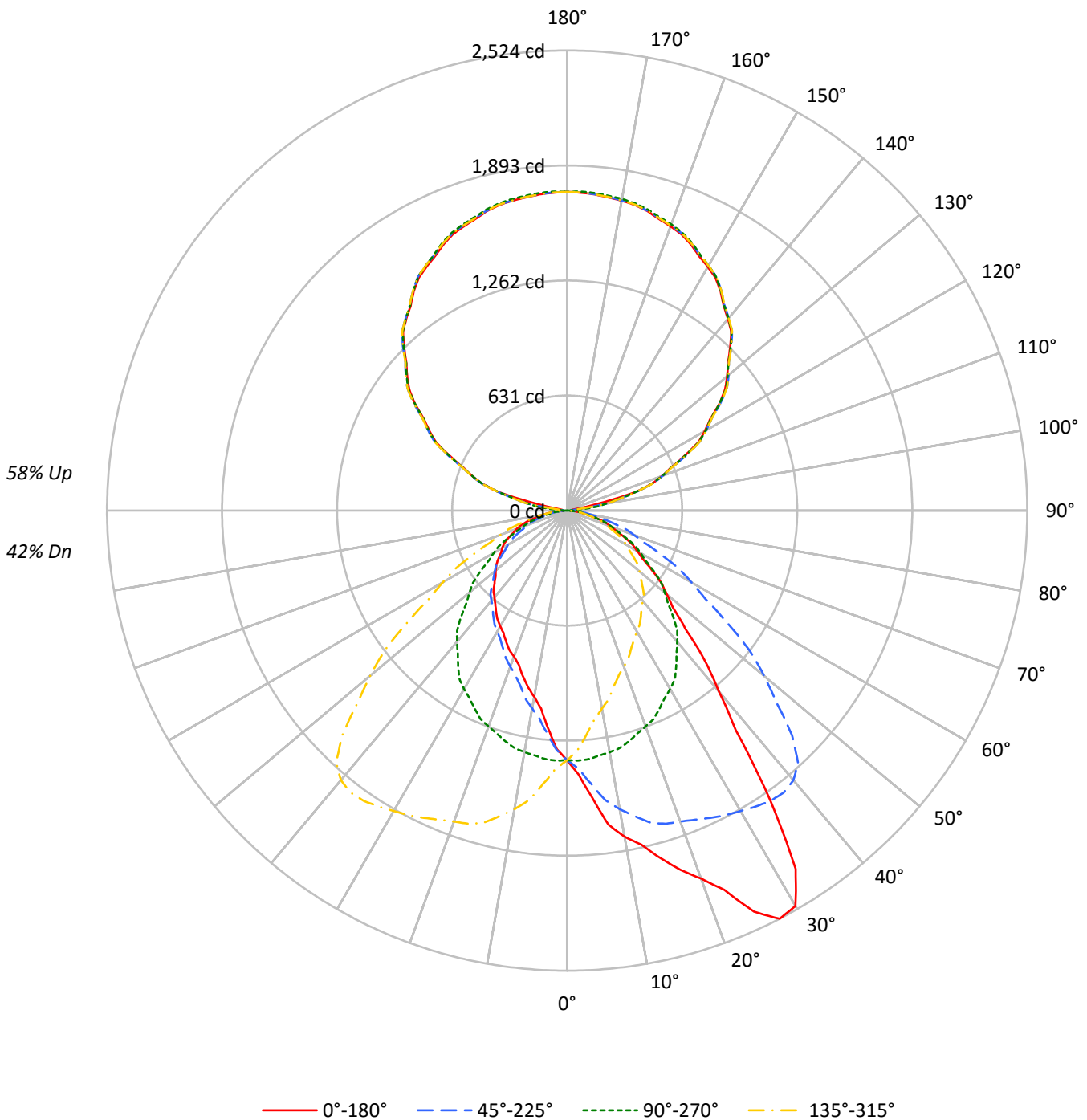
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	80	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8843	8843	8843	8843
5°	10240	8873	7769	8873
10°	11913	8826	6807	8826
15°	13188	8762	6279	8762
20°	14762	8659	5856	8659
25°	17293	8543	5648	8543
30°	18678	8429	5469	8429
35°	15358	8215	5351	8215
40°	10916	7917	5223	7917
45°	8386	7516	5149	7516
50°	7159	7018	5138	7018
55°	6373	6531	5183	6531
60°	5749	5997	5315	5997
65°	5310	5462	5453	5462
70°	4828	4906	5531	4906
75°	4262	4319	5480	4319
80°	3585	3522	5013	3522
85°	2838	2542	4046	2542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.4
10°-20°	392.4	4.2
20°-30°	637.2	6.9
30°-40°	777.3	8.4
40°-50°	707.1	7.7
50°-60°	563.2	6.1
60°-70°	392.3	4.2
70°-80°	209.2	2.3
80°-90°	56.4	0.6
90°-100°	63.5	0.7
100°-110°	391.6	4.2
110°-120°	710.2	7.7
120°-130°	911.5	9.9
130°-140°	980.4	10.6
140°-150°	920.2	10.0
150°-160°	744.4	8.1
160°-170°	481.4	5.2
170°-180°	166.0	1.8
0°-30°	1161.5	12.6
0°-40°	1938.8	21.0
0°-60°	3209.2	34.7
0°-90°	3867.1	41.9
90°-120°	1165.3	12.6
90°-150°	3977.4	43.1
90°-180°	5369.0	58.1
0°-180°	9236.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1580	1369	1198	1369	1580	159
15°	1972	1310	939	1310	1972	565
25°	2427	1199	793	1199	2427	1108
35°	1948	1042	679	1042	1948	1192
45°	918	823	564	823	918	735
55°	566	580	460	580	566	510
65°	348	357	357	357	348	345
75°	171	173	220	173	171	184
85°	38	34	55	34	38	45
90°	31	1	31	1	31	15
95°	27	74	27	74	27	22
105°	385	381	385	381	385	348
115°	710	716	710	716	710	705
125°	1017	1017	1017	1017	1017	905
135°	1264	1269	1264	1269	1264	975
145°	1467	1471	1467	1471	1467	916
155°	1608	1620	1608	1620	1608	741
165°	1700	1710	1700	1710	1700	480
175°	1741	1748	1741	1748	1741	166
180°	1748	1748	1748	1748	1748	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1448.2	1446.3	1444.5	1440.7	1443.6	1435.6	1431.9	1425.4	1417.5	1414.7	1411.4
5°	1579.5	1582.4	1585.4	1573.1	1574.3	1566.2	1547.6	1532.4	1520.3	1504.5	1493.5
7.5°	1737.6	1730.7	1730.2	1722.3	1708.7	1697.7	1678.2	1653.3	1629.3	1601.8	1579.2
10°	1816.6	1817.2	1812.0	1802.7	1788.1	1777.7	1752.1	1727.7	1698.1	1663.2	1638.2
12.5°	1876.1	1878.5	1872.0	1859.4	1852.3	1828.9	1808.9	1779.8	1744.6	1716.7	1678.7
15°	1972.4	1966.0	1961.4	1945.6	1933.5	1909.0	1877.1	1846.8	1808.4	1773.1	1737.6
17.5°	2065.1	2070.2	2061.5	2047.2	2009.3	1980.8	1937.9	1896.6	1848.8	1801.3	1758.9
20°	2147.9	2152.5	2139.2	2114.2	2068.8	2040.4	1984.0	1930.5	1875.3	1814.3	1767.8
22.5°	2251.1	2247.4	2229.3	2191.3	2152.1	2099.4	2038.4	1973.3	1904.1	1835.2	1773.4
25°	2426.8	2402.4	2391.3	2344.3	2292.6	2215.3	2131.6	2036.3	1950.3	1859.1	1780.0
27.5°	2524.2	2516.5	2504.2	2471.4	2417.1	2334.4	2235.8	2119.6	1998.3	1883.1	1779.7
30°	2504.6	2505.9	2507.0	2496.6	2461.7	2399.5	2301.3	2176.3	2032.2	1902.6	1782.9
32.5°	2331.8	2352.9	2373.1	2397.0	2406.8	2394.9	2333.4	2220.5	2072.2	1924.9	1781.1
35°	1947.9	1954.4	2020.0	2085.1	2173.4	2242.0	2287.9	2237.9	2113.0	1943.9	1778.8
37.5°	1518.9	1550.2	1595.7	1669.2	1796.7	1910.9	2057.7	2125.2	2084.9	1950.1	1774.8
40°	1294.8	1323.8	1353.5	1428.4	1535.9	1674.2	1841.0	1983.4	2016.5	1930.5	1760.8
42.5°	1121.8	1144.9	1177.8	1234.1	1324.0	1446.5	1605.8	1791.8	1906.3	1873.8	1731.6
45°	918.2	932.7	958.3	1003.1	1068.2	1164.0	1304.7	1508.0	1685.3	1744.0	1662.1
47.5°	785.9	785.8	805.7	836.6	883.6	965.0	1069.0	1228.4	1417.7	1557.8	1551.3
50°	712.5	709.6	725.2	752.0	789.2	843.3	942.6	1069.9	1251.7	1410.4	1454.6
52.5°	649.3	649.6	659.3	679.0	710.2	756.3	830.5	945.3	1100.7	1263.5	1346.7
55°	566.0	563.7	574.7	588.1	610.8	641.0	694.5	782.2	908.3	1068.7	1176.8
57.5°	489.7	496.2	500.6	509.9	528.7	549.0	594.0	658.4	758.5	896.1	1010.4
60°	445.1	451.5	455.0	464.3	479.4	496.9	531.8	584.0	668.3	786.9	900.2
62.5°	405.2	410.2	411.3	419.7	432.0	449.0	476.4	520.4	586.9	690.6	801.6
65°	347.5	347.5	349.8	358.5	364.4	379.4	400.4	432.4	485.9	566.6	661.3
67.5°	292.0	294.7	294.2	298.0	303.3	315.1	330.1	356.5	396.1	455.0	530.8
70°	255.7	258.0	257.4	260.4	266.1	273.7	285.9	310.9	339.4	389.9	455.0
72.5°	223.2	224.1	222.6	226.4	229.9	236.5	250.1	263.5	290.1	332.8	386.2
75°	170.8	172.0	173.1	175.5	179.0	182.4	189.4	202.9	220.2	252.2	286.5
77.5°	128.1	125.9	128.6	128.3	130.3	132.9	139.1	146.2	160.5	180.7	207.2
80°	96.4	97.0	97.0	97.6	100.6	102.3	107.5	112.7	123.8	138.9	157.5
82.5°	70.4	72.0	71.0	72.1	74.5	75.8	78.7	83.0	89.4	101.3	114.7
85°	38.3	35.5	36.6	37.8	37.8	38.3	40.6	42.4	45.9	50.5	55.8
87.5°	17.4	18.2	18.4	18.3	18.5	18.3	19.9	19.6	20.8	21.8	23.2
90°	31.1	30.2	29.4	28.5	27.6	26.5	25.1	23.6	22.2	20.8	18.7
92.5°	29.0	28.7	28.2	27.8	27.4	26.5	25.1	23.6	22.2	20.8	18.9
95°	27.2	27.2	27.2	27.2	27.2	26.5	25.1	23.6	22.2	20.8	31.7
97.5°	27.2	27.2	27.2	27.2	27.2	31.3	39.4	47.5	55.6	63.8	85.4
100°	27.2	28.4	29.5	30.7	31.9	53.9	96.8	139.7	182.6	225.5	224.4
102.5°	163.1	182.6	202.2	221.8	241.4	255.3	263.4	271.5	279.7	287.7	287.1
105°	385.0	385.2	385.6	385.8	386.1	386.2	386.2	386.2	386.2	386.2	386.2
107.5°	485.3	486.1	487.0	487.8	488.7	489.1	489.0	489.0	489.0	488.9	488.4
110°	554.7	554.5	554.1	553.9	553.6	553.9	554.7	555.6	556.5	557.3	556.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	616.9	617.3	617.8	618.2	618.5	619.3	620.4	621.5	622.6	623.7	623.4
115°	710.2	712.0	713.7	715.5	717.2	718.6	719.8	720.9	722.0	723.2	723.0
117.5°	809.8	810.5	811.3	812.1	812.8	813.9	815.5	816.9	818.4	819.9	818.8
120°	871.0	872.5	873.8	875.3	876.8	877.8	878.3	878.9	879.5	880.0	879.2
122.5°	929.0	930.7	932.4	934.1	935.7	936.9	937.5	938.0	938.6	939.2	938.7
125°	1017.4	1018.3	1019.2	1020.0	1020.9	1021.9	1023.0	1024.2	1025.4	1026.5	1026.5
127.5°	1091.8	1094.0	1096.1	1098.2	1100.4	1101.7	1102.4	1103.0	1103.6	1104.3	1104.5
130°	1145.7	1147.2	1148.7	1150.1	1151.5	1152.7	1153.6	1154.4	1155.3	1156.2	1155.8
132.5°	1195.5	1197.0	1198.4	1199.9	1201.3	1202.1	1202.3	1202.5	1202.6	1202.8	1203.4
135°	1263.7	1265.4	1267.1	1268.9	1270.6	1271.8	1272.4	1272.9	1273.5	1274.1	1274.6
137.5°	1332.1	1333.6	1335.2	1336.6	1338.2	1338.9	1338.7	1338.6	1338.5	1338.3	1338.9
140°	1372.6	1374.3	1376.1	1377.8	1379.5	1380.1	1379.5	1378.9	1378.4	1377.8	1378.0
142.5°	1410.9	1412.6	1414.4	1416.1	1417.9	1418.7	1418.6	1418.4	1418.3	1418.2	1417.8
145°	1467.2	1469.0	1470.7	1472.4	1474.1	1474.8	1474.5	1474.3	1473.9	1473.7	1473.7
147.5°	1513.6	1515.7	1517.8	1519.8	1521.9	1522.8	1522.4	1522.1	1521.7	1521.4	1521.0
150°	1543.7	1546.0	1548.3	1550.6	1552.9	1553.8	1553.2	1552.6	1552.0	1551.4	1550.8
152.5°	1571.7	1573.7	1575.8	1577.9	1579.9	1580.7	1580.1	1579.6	1579.0	1578.4	1577.9
155°	1608.4	1610.8	1613.1	1615.4	1617.6	1618.4	1617.6	1616.7	1615.8	1615.0	1614.4
157.5°	1639.3	1641.6	1643.9	1646.2	1648.6	1649.2	1648.3	1647.4	1646.5	1645.5	1645.5
160°	1659.1	1661.3	1663.6	1665.9	1668.3	1668.8	1667.7	1666.5	1665.3	1664.2	1663.9
162.5°	1676.6	1679.2	1681.7	1684.3	1686.8	1687.2	1685.7	1684.0	1682.4	1680.8	1680.5
165°	1700.5	1702.8	1705.1	1707.4	1709.7	1710.0	1708.3	1706.5	1704.8	1703.1	1702.8
167.5°	1717.1	1719.7	1722.3	1724.8	1727.4	1727.7	1725.6	1723.5	1721.5	1719.4	1719.2
170°	1726.4	1729.0	1731.6	1734.2	1736.8	1736.9	1734.7	1732.3	1730.0	1727.7	1727.4
172.5°	1732.7	1735.3	1737.8	1740.4	1743.0	1743.3	1741.2	1739.1	1737.1	1735.0	1734.5
175°	1740.7	1743.3	1745.8	1748.4	1751.0	1751.2	1748.9	1746.5	1744.3	1742.0	1741.7
177.5°	1745.3	1747.1	1749.0	1750.8	1752.7	1752.8	1751.2	1749.6	1748.0	1746.4	1746.1
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1408.7	1405.4	1401.7	1395.2	1387.2	1383.1	1376.6	1372.4	1364.0	1357.0	1349.6
5°	1480.1	1465.1	1451.1	1433.0	1413.3	1400.5	1385.4	1368.6	1351.2	1333.1	1313.4
7.5°	1554.2	1527.4	1498.4	1467.1	1436.6	1408.4	1381.6	1355.2	1330.6	1300.8	1275.6
10°	1604.0	1570.2	1534.2	1491.8	1450.5	1414.5	1377.9	1345.9	1313.4	1278.5	1247.7
12.5°	1653.6	1608.8	1557.9	1511.3	1461.6	1418.2	1375.1	1334.3	1293.4	1254.8	1218.8
15°	1688.8	1649.2	1602.1	1535.9	1480.1	1420.3	1363.3	1310.4	1261.0	1218.1	1172.8
17.5°	1711.9	1661.0	1610.4	1546.9	1473.8	1406.8	1342.3	1281.8	1226.1	1171.6	1127.8
20°	1716.1	1663.8	1610.9	1548.7	1473.8	1397.1	1332.6	1259.9	1200.1	1143.7	1090.2
22.5°	1714.7	1655.4	1597.8	1533.9	1460.8	1390.1	1312.1	1238.0	1173.1	1117.7	1061.9
25°	1701.6	1638.2	1566.2	1501.7	1429.6	1354.6	1275.6	1198.9	1132.6	1069.3	1014.1
27.5°	1690.7	1608.4	1526.9	1451.6	1382.1	1313.4	1237.7	1159.2	1085.6	1021.5	969.5
30°	1677.1	1587.1	1495.2	1416.8	1345.3	1278.5	1207.0	1130.3	1053.6	990.8	935.0
32.5°	1665.1	1560.1	1463.2	1377.8	1302.1	1237.1	1171.2	1098.2	1022.9	959.2	903.4
35°	1641.7	1520.3	1409.3	1312.8	1232.0	1165.2	1110.0	1042.0	972.8	911.2	857.7
37.5°	1612.1	1467.9	1348.8	1247.7	1159.2	1088.7	1037.3	985.2	918.8	859.4	811.1
40°	1588.8	1430.7	1304.7	1201.2	1109.4	1036.1	988.5	939.1	883.9	828.7	777.6
42.5°	1559.5	1397.3	1260.0	1148.7	1057.7	986.4	936.4	894.5	845.8	794.3	746.8
45°	1505.7	1336.6	1187.8	1068.2	976.3	905.9	854.3	822.9	786.3	737.4	697.3
47.5°	1426.6	1263.7	1109.8	986.3	891.6	826.4	777.9	747.8	722.0	685.7	649.4
50°	1356.3	1209.4	1053.6	931.0	836.3	770.6	725.8	698.5	676.4	648.5	617.8
52.5°	1277.8	1141.0	998.2	877.0	783.3	718.5	674.7	650.7	632.2	612.3	581.9
55°	1153.0	1036.7	904.2	789.2	702.6	639.2	600.9	580.0	564.9	549.7	531.2
57.5°	1015.5	924.5	807.2	702.0	622.2	564.6	528.8	508.5	496.7	489.0	478.0
60°	918.8	840.9	739.8	643.9	566.0	514.9	480.0	464.3	454.4	448.1	439.9
62.5°	829.1	765.1	671.4	583.9	515.8	467.4	436.4	421.1	411.6	408.5	401.8
65°	696.8	647.4	570.1	497.5	439.4	398.0	372.0	357.4	351.5	348.1	348.7
67.5°	566.5	536.4	474.3	412.3	366.0	331.4	310.5	299.3	296.4	291.7	291.6
70°	487.0	464.3	412.0	358.0	316.7	290.0	271.4	259.8	256.8	254.5	254.0
72.5°	416.8	396.9	351.5	308.2	271.1	247.7	232.3	225.3	220.6	219.2	219.1
75°	313.2	302.2	266.1	231.9	206.3	190.0	179.6	173.1	169.7	169.1	169.7
77.5°	222.7	213.0	190.1	165.8	149.7	137.4	128.5	126.3	122.3	122.5	121.9
80°	167.4	161.0	146.5	127.3	113.9	103.4	98.8	94.7	93.6	91.8	93.6
82.5°	121.3	114.5	104.6	92.4	81.4	75.1	70.4	69.1	68.4	67.7	68.0
85°	59.8	60.4	54.6	45.3	40.6	37.2	34.3	34.3	33.7	33.1	33.7
87.5°	23.8	22.5	20.2	18.3	15.6	13.8	12.8	12.8	11.9	11.9	12.8
90°	16.7	14.7	12.7	10.5	8.2	5.9	3.6	1.3	3.6	5.9	8.2
92.5°	17.1	15.4	13.6	13.5	15.2	16.7	18.3	20.0	18.3	16.7	15.2
95°	42.6	53.6	64.5	70.4	71.3	72.2	73.0	73.9	73.0	72.2	71.3
97.5°	107.1	128.7	150.4	160.5	158.9	157.3	155.8	154.2	155.8	157.3	158.9
100°	223.3	222.1	220.9	219.9	219.0	218.2	217.3	216.5	217.3	218.2	219.0
102.5°	286.4	285.7	285.0	284.0	283.0	281.9	280.8	279.7	280.8	281.9	283.0
105°	386.2	386.2	386.2	385.6	384.5	383.4	382.2	381.1	382.2	383.4	384.5
107.5°	487.8	487.2	486.6	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
110°	556.2	555.6	555.0	554.7	554.7	554.7	554.7	554.7	554.7	554.7	554.7



TEST NUMBER: P333454-935

CATALOG NUMBER: S125DIW-S1090D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	623.0	622.7	622.3	621.8	621.1	620.4	619.7	619.1	619.7	620.4	621.1
115°	722.6	722.4	722.0	721.2	719.8	718.3	716.9	715.5	716.9	718.3	719.8
117.5°	817.7	816.7	815.5	815.0	815.1	815.1	815.2	815.3	815.2	815.1	815.1
120°	878.3	877.4	876.6	876.3	876.6	876.9	877.2	877.4	877.2	876.9	876.6
122.5°	938.3	938.0	937.5	936.8	935.7	934.6	933.5	932.5	933.5	934.6	935.7
125°	1026.5	1026.5	1026.5	1025.5	1023.5	1021.5	1019.4	1017.4	1019.4	1021.5	1023.5
127.5°	1104.7	1104.8	1105.0	1104.3	1102.9	1101.5	1100.0	1098.5	1100.0	1101.5	1102.9
130°	1155.5	1155.3	1154.9	1154.1	1152.7	1151.2	1149.8	1148.3	1149.8	1151.2	1152.7
132.5°	1204.0	1204.7	1205.3	1204.8	1203.2	1201.4	1199.8	1198.1	1199.8	1201.4	1203.2
135°	1275.2	1275.8	1276.3	1275.8	1274.1	1272.4	1270.6	1268.9	1270.6	1272.4	1274.1
137.5°	1339.4	1339.9	1340.4	1340.0	1338.4	1337.0	1335.4	1333.9	1335.4	1337.0	1338.4
140°	1378.4	1378.6	1378.9	1378.8	1378.2	1377.6	1377.1	1376.5	1377.1	1377.6	1378.2
142.5°	1417.4	1417.0	1416.6	1416.2	1415.8	1415.5	1415.1	1414.8	1415.1	1415.5	1415.8
145°	1473.7	1473.7	1473.7	1473.4	1472.8	1472.2	1471.6	1471.1	1471.6	1472.2	1472.8
147.5°	1520.7	1520.4	1520.0	1519.8	1520.0	1520.1	1520.2	1520.4	1520.2	1520.1	1520.0
150°	1550.3	1549.7	1549.1	1549.1	1549.7	1550.3	1550.8	1551.4	1550.8	1550.3	1549.7
152.5°	1577.3	1576.7	1576.1	1576.4	1577.7	1579.0	1580.3	1581.5	1580.3	1579.0	1577.7
155°	1613.8	1613.3	1612.7	1613.3	1615.0	1616.7	1618.4	1620.1	1618.4	1616.7	1615.0
157.5°	1645.5	1645.4	1645.3	1645.8	1646.8	1647.9	1648.9	1649.9	1648.9	1647.9	1646.8
160°	1663.6	1663.4	1663.0	1663.8	1665.5	1667.2	1669.0	1670.7	1669.0	1667.2	1665.5
162.5°	1680.2	1679.9	1679.6	1680.3	1682.0	1683.9	1685.6	1687.3	1685.6	1683.9	1682.0
165°	1702.5	1702.2	1701.9	1702.6	1704.3	1706.1	1707.9	1709.6	1707.9	1706.1	1704.3
167.5°	1718.8	1718.6	1718.3	1719.0	1720.8	1722.6	1724.4	1726.1	1724.4	1722.6	1720.8
170°	1727.2	1726.8	1726.6	1727.4	1729.4	1731.5	1733.5	1735.5	1733.5	1731.5	1729.4
172.5°	1734.0	1733.5	1732.9	1733.6	1735.7	1737.7	1739.7	1741.7	1739.7	1737.7	1735.7
175°	1741.4	1741.1	1740.9	1741.5	1743.3	1745.0	1746.7	1748.4	1746.7	1745.0	1743.3
177.5°	1745.9	1745.7	1745.4	1746.0	1747.4	1748.8	1750.2	1751.5	1750.2	1748.8	1747.4
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



TEST NUMBER: P333454-935

CATALOG NUMBER: S125DIW-S1090D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1345.4	1340.3	1336.1	1326.8	1321.7	1314.7	1309.2	1315.2	1308.7	1311.5	1307.3
5°	1303.5	1287.2	1275.6	1258.7	1244.2	1230.8	1221.0	1219.2	1214.5	1212.2	1205.2
7.5°	1253.0	1232.7	1212.7	1190.6	1172.0	1153.1	1141.0	1131.0	1124.4	1115.7	1109.7
10°	1223.3	1195.9	1172.8	1146.0	1122.7	1102.4	1086.2	1078.0	1070.5	1059.4	1055.3
12.5°	1186.5	1158.3	1130.0	1101.4	1079.0	1056.4	1042.4	1030.1	1024.8	1012.4	1011.2
15°	1142.5	1100.1	1072.2	1043.1	1012.4	993.8	982.1	968.7	962.9	954.2	947.8
17.5°	1089.9	1052.1	1017.2	987.1	960.7	945.0	930.7	921.4	911.5	905.8	895.3
20°	1051.9	1015.8	980.9	949.0	928.7	910.6	899.0	890.3	879.9	876.9	866.5
22.5°	1019.8	980.0	946.6	919.7	897.5	877.2	864.6	858.7	851.4	842.5	840.4
25°	967.6	926.3	897.9	871.2	851.4	832.8	824.1	816.5	809.5	803.1	800.8
27.5°	922.5	885.6	851.8	827.7	810.5	793.5	785.8	776.6	771.5	766.4	760.1
30°	890.9	853.1	823.5	800.2	781.6	766.5	758.4	752.0	747.3	742.7	739.2
32.5°	858.3	823.4	794.6	771.9	753.3	741.8	734.7	730.1	725.0	719.5	715.1
35°	815.4	777.0	749.1	729.4	714.8	706.1	697.9	693.9	688.0	688.0	683.4
37.5°	766.9	733.7	709.1	691.1	678.0	670.3	661.4	658.7	655.0	652.5	650.8
40°	738.0	707.2	684.0	666.0	652.0	645.7	638.7	634.0	631.7	628.8	627.6
42.5°	708.3	678.9	656.6	640.0	627.8	622.4	615.9	612.6	608.0	604.2	603.5
45°	663.1	634.6	614.2	600.9	590.4	584.0	580.0	573.0	570.7	566.0	565.4
47.5°	620.2	592.9	572.9	562.0	552.8	547.5	541.1	534.2	531.5	529.2	528.9
50°	588.1	563.1	544.5	534.1	525.4	517.8	511.4	506.8	505.0	505.0	506.2
52.5°	555.6	534.3	518.5	505.7	497.5	489.4	483.5	480.7	478.0	480.9	482.9
55°	507.9	486.4	474.8	462.6	454.4	445.1	442.2	441.1	439.4	444.0	446.3
57.5°	457.4	442.4	428.8	416.6	409.3	404.0	400.0	399.3	402.6	404.8	412.3
60°	425.4	407.9	395.7	386.4	377.7	374.3	373.1	372.0	374.3	380.6	390.5
62.5°	390.0	375.9	362.7	355.8	349.4	343.5	343.4	344.1	348.7	356.0	365.8
65°	338.2	326.0	317.3	309.2	303.9	300.4	301.6	303.9	309.2	319.0	330.1
67.5°	285.6	277.2	269.4	262.8	257.8	257.8	259.0	262.4	268.6	280.0	290.1
70°	251.7	242.4	235.9	233.1	228.9	226.6	230.1	235.9	241.2	251.7	260.4
72.5°	217.7	209.8	204.8	202.9	201.0	199.2	200.4	206.6	213.7	224.2	234.3
75°	167.4	164.5	161.0	158.7	156.9	158.1	159.2	165.1	170.8	181.9	193.6
77.5°	122.2	119.2	117.0	116.5	115.5	116.1	119.3	123.6	129.3	137.4	146.2
80°	92.4	91.3	90.1	89.5	89.5	90.1	94.7	97.6	102.9	110.4	117.4
82.5°	67.3	66.6	66.4	66.2	66.7	66.8	69.7	73.4	77.7	83.4	89.5
85°	35.5	34.3	36.0	36.6	35.5	37.2	38.3	40.6	42.4	45.3	48.2
87.5°	13.7	15.1	15.1	15.9	16.3	17.7	17.5	19.6	20.8	22.0	21.8
90°	10.5	12.7	14.7	16.7	18.7	20.8	22.2	23.6	25.1	26.5	27.6
92.5°	13.5	13.6	15.4	17.1	18.9	20.8	22.2	23.6	25.1	26.5	27.4
95°	70.4	64.5	53.6	42.6	31.7	20.8	22.2	23.6	25.1	26.5	27.2
97.5°	160.5	150.4	128.7	107.1	85.4	63.8	55.6	47.5	39.4	31.3	27.2
100°	219.9	220.9	222.1	223.3	224.4	225.5	182.6	139.7	96.8	53.9	31.9
102.5°	284.0	285.0	285.7	286.4	287.1	287.7	279.7	271.5	263.4	255.3	241.4
105°	385.6	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.1
107.5°	486.3	486.6	487.2	487.8	488.4	488.9	489.0	489.0	489.0	489.1	488.7
110°	554.7	555.0	555.6	556.2	556.7	557.3	556.5	555.6	554.7	553.9	553.6



TEST NUMBER: P333454-935

CATALOG NUMBER: S125DIW-S1090D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	621.8	622.3	622.7	623.0	623.4	623.7	622.6	621.5	620.4	619.3	618.5
115°	721.2	722.0	722.4	722.6	723.0	723.2	722.0	720.9	719.8	718.6	717.2
117.5°	815.0	815.5	816.7	817.7	818.8	819.9	818.4	816.9	815.5	813.9	812.8
120°	876.3	876.6	877.4	878.3	879.2	880.0	879.5	878.9	878.3	877.8	876.8
122.5°	936.8	937.5	938.0	938.3	938.7	939.2	938.6	938.0	937.5	936.9	935.7
125°	1025.5	1026.5	1026.5	1026.5	1026.5	1026.5	1025.4	1024.2	1023.0	1021.9	1020.9
127.5°	1104.3	1105.0	1104.8	1104.7	1104.5	1104.3	1103.6	1103.0	1102.4	1101.7	1100.4
130°	1154.1	1154.9	1155.3	1155.5	1155.8	1156.2	1155.3	1154.4	1153.6	1152.7	1151.5
132.5°	1204.8	1205.3	1204.7	1204.0	1203.4	1202.8	1202.6	1202.5	1202.3	1202.1	1201.3
135°	1275.8	1276.3	1275.8	1275.2	1274.6	1274.1	1273.5	1272.9	1272.4	1271.8	1270.6
137.5°	1340.0	1340.4	1339.9	1339.4	1338.9	1338.3	1338.5	1338.6	1338.7	1338.9	1338.2
140°	1378.8	1378.9	1378.6	1378.4	1378.0	1377.8	1378.4	1378.9	1379.5	1380.1	1379.5
142.5°	1416.2	1416.6	1417.0	1417.4	1417.8	1418.2	1418.3	1418.4	1418.6	1418.7	1417.9
145°	1473.4	1473.7	1473.7	1473.7	1473.7	1473.7	1473.9	1474.3	1474.5	1474.8	1474.1
147.5°	1519.8	1520.0	1520.4	1520.7	1521.0	1521.4	1521.7	1522.1	1522.4	1522.8	1521.9
150°	1549.1	1549.1	1549.7	1550.3	1550.8	1551.4	1552.0	1552.6	1553.2	1553.8	1552.9
152.5°	1576.4	1576.1	1576.7	1577.3	1577.9	1578.4	1579.0	1579.6	1580.1	1580.7	1579.9
155°	1613.3	1612.7	1613.3	1613.8	1614.4	1615.0	1615.8	1616.7	1617.6	1618.4	1617.6
157.5°	1645.8	1645.3	1645.4	1645.5	1645.5	1645.5	1646.5	1647.4	1648.3	1649.2	1648.6
160°	1663.8	1663.0	1663.4	1663.6	1663.9	1664.2	1665.3	1666.5	1667.7	1668.8	1668.3
162.5°	1680.3	1679.6	1679.9	1680.2	1680.5	1680.8	1682.4	1684.0	1685.7	1687.2	1686.8
165°	1702.6	1701.9	1702.2	1702.5	1702.8	1703.1	1704.8	1706.5	1708.3	1710.0	1709.7
167.5°	1719.0	1718.3	1718.6	1718.8	1719.2	1719.4	1721.5	1723.5	1725.6	1727.7	1727.4
170°	1727.4	1726.6	1726.8	1727.2	1727.4	1727.7	1730.0	1732.3	1734.7	1736.9	1736.8
172.5°	1733.6	1732.9	1733.5	1734.0	1734.5	1735.0	1737.1	1739.1	1741.2	1743.3	1743.0
175°	1741.5	1740.9	1741.1	1741.4	1741.7	1742.0	1744.3	1746.5	1748.9	1751.2	1751.0
177.5°	1746.0	1745.4	1745.7	1745.9	1746.1	1746.4	1748.0	1749.6	1751.2	1752.8	1752.7
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



TEST NUMBER: P333454-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1304.5	1307.8	1305.0	1308.7	1305.0	1307.8	1304.5	1307.3	1311.5	1308.7	1315.2
5°	1202.4	1197.1	1200.6	1198.3	1200.6	1197.1	1202.4	1205.2	1212.2	1214.5	1219.2
7.5°	1108.0	1103.0	1097.3	1094.6	1097.3	1103.0	1108.0	1109.7	1115.7	1124.4	1131.0
10°	1049.0	1042.6	1042.0	1037.9	1042.0	1042.6	1049.0	1055.3	1059.4	1070.5	1078.0
12.5°	1005.7	999.8	993.2	991.4	993.2	999.8	1005.7	1011.2	1012.4	1024.8	1030.1
15°	944.3	939.7	935.6	939.1	935.6	939.7	944.3	947.8	954.2	962.9	968.7
17.5°	893.3	889.5	888.8	884.5	888.8	889.5	893.3	895.3	905.8	911.5	921.4
20°	861.3	858.3	859.5	852.0	859.5	858.3	861.3	866.5	876.9	879.9	890.3
22.5°	835.7	830.0	829.3	827.8	829.3	830.0	835.7	840.4	842.5	851.4	858.7
25°	795.6	792.6	789.8	792.6	789.8	792.6	795.6	800.8	803.1	809.5	816.5
27.5°	760.6	757.1	756.3	756.6	756.3	757.1	760.6	760.1	766.4	771.5	776.6
30°	739.2	733.4	734.0	733.4	734.0	733.4	739.2	739.2	742.7	747.3	752.0
32.5°	715.9	712.0	711.2	710.2	711.2	712.0	715.9	715.1	719.5	725.0	730.1
35°	681.7	681.7	678.7	678.7	678.7	681.7	681.7	683.4	688.0	688.0	693.9
37.5°	649.5	648.8	647.1	647.4	647.1	648.8	649.5	650.8	652.5	655.0	658.7
40°	625.3	624.7	622.9	619.5	622.9	624.7	625.3	627.6	628.8	631.7	634.0
42.5°	602.0	600.1	599.3	598.1	599.3	600.1	602.0	603.5	604.2	608.0	612.6
45°	565.4	565.4	564.3	563.7	564.3	565.4	565.4	565.4	566.0	570.7	573.0
47.5°	529.9	530.9	533.1	532.8	533.1	530.9	529.9	528.9	529.2	531.5	534.2
50°	508.5	509.1	510.8	511.4	510.8	509.1	508.5	506.2	505.0	505.0	506.8
52.5°	484.7	488.2	490.3	490.0	490.3	488.2	484.7	482.9	480.9	478.0	480.7
55°	451.5	455.6	459.7	460.3	459.7	455.6	451.5	446.3	444.0	439.4	441.1
57.5°	418.6	424.3	428.6	430.1	428.6	424.3	418.6	412.3	404.8	402.6	399.3
60°	396.3	403.9	409.1	411.5	409.1	403.9	396.3	390.5	380.6	374.3	372.0
62.5°	375.0	383.4	388.7	389.1	388.7	383.4	375.0	365.8	356.0	348.7	344.1
65°	339.9	348.7	353.4	356.8	353.4	348.7	339.9	330.1	319.0	309.2	303.9
67.5°	302.3	311.0	316.2	318.9	316.2	311.0	302.3	290.1	280.0	268.6	262.4
70°	274.9	283.6	290.6	292.9	290.6	283.6	274.9	260.4	251.7	241.2	235.9
72.5°	247.9	255.7	261.3	264.1	261.3	255.7	247.9	234.3	224.2	213.7	206.6
75°	201.0	211.5	216.8	219.6	216.8	211.5	201.0	193.6	181.9	170.8	165.1
77.5°	155.1	164.5	167.7	169.2	167.7	164.5	155.1	146.2	137.4	129.3	123.6
80°	124.3	130.2	134.2	134.8	134.2	130.2	124.3	117.4	110.4	102.9	97.6
82.5°	95.6	100.4	101.7	103.2	101.7	100.4	95.6	89.5	83.4	77.7	73.4
85°	52.3	54.6	55.2	54.6	55.2	54.6	52.3	48.2	45.3	42.4	40.6
87.5°	22.9	22.6	22.8	23.8	22.8	22.6	22.9	21.8	22.0	20.8	19.6
90°	28.5	29.4	30.2	31.1	30.2	29.4	28.5	27.6	26.5	25.1	23.6
92.5°	27.8	28.2	28.7	29.0	28.7	28.2	27.8	27.4	26.5	25.1	23.6
95°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	26.5	25.1	23.6
97.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	31.3	39.4	47.5
100°	30.7	29.5	28.4	27.2	28.4	29.5	30.7	31.9	53.9	96.8	139.7
102.5°	221.8	202.2	182.6	163.1	182.6	202.2	221.8	241.4	255.3	263.4	271.5
105°	385.8	385.6	385.2	385.0	385.2	385.6	385.8	386.1	386.2	386.2	386.2
107.5°	487.8	487.0	486.1	485.3	486.1	487.0	487.8	488.7	489.1	489.0	489.0
110°	553.9	554.1	554.5	554.7	554.5	554.1	553.9	553.6	553.9	554.7	555.6



TEST NUMBER: P333454-935

CATALOG NUMBER: S125DIW-S1090D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	618.2	617.8	617.3	616.9	617.3	617.8	618.2	618.5	619.3	620.4	621.5
115°	715.5	713.7	712.0	710.2	712.0	713.7	715.5	717.2	718.6	719.8	720.9
117.5°	812.1	811.3	810.5	809.8	810.5	811.3	812.1	812.8	813.9	815.5	816.9
120°	875.3	873.8	872.5	871.0	872.5	873.8	875.3	876.8	877.8	878.3	878.9
122.5°	934.1	932.4	930.7	929.0	930.7	932.4	934.1	935.7	936.9	937.5	938.0
125°	1020.0	1019.2	1018.3	1017.4	1018.3	1019.2	1020.0	1020.9	1021.9	1023.0	1024.2
127.5°	1098.2	1096.1	1094.0	1091.8	1094.0	1096.1	1098.2	1100.4	1101.7	1102.4	1103.0
130°	1150.1	1148.7	1147.2	1145.7	1147.2	1148.7	1150.1	1151.5	1152.7	1153.6	1154.4
132.5°	1199.9	1198.4	1197.0	1195.5	1197.0	1198.4	1199.9	1201.3	1202.1	1202.3	1202.5
135°	1268.9	1267.1	1265.4	1263.7	1265.4	1267.1	1268.9	1270.6	1271.8	1272.4	1272.9
137.5°	1336.6	1335.2	1333.6	1332.1	1333.6	1335.2	1336.6	1338.2	1338.9	1338.7	1338.6
140°	1377.8	1376.1	1374.3	1372.6	1374.3	1376.1	1377.8	1379.5	1380.1	1379.5	1378.9
142.5°	1416.1	1414.4	1412.6	1410.9	1412.6	1414.4	1416.1	1417.9	1418.7	1418.6	1418.4
145°	1472.4	1470.7	1469.0	1467.2	1469.0	1470.7	1472.4	1474.1	1474.8	1474.5	1474.3
147.5°	1519.8	1517.8	1515.7	1513.6	1515.7	1517.8	1519.8	1521.9	1522.8	1522.4	1522.1
150°	1550.6	1548.3	1546.0	1543.7	1546.0	1548.3	1550.6	1552.9	1553.8	1553.2	1552.6
152.5°	1577.9	1575.8	1573.7	1571.7	1573.7	1575.8	1577.9	1579.9	1580.7	1580.1	1579.6
155°	1615.4	1613.1	1610.8	1608.4	1610.8	1613.1	1615.4	1617.6	1618.4	1617.6	1616.7
157.5°	1646.2	1643.9	1641.6	1639.3	1641.6	1643.9	1646.2	1648.6	1649.2	1648.3	1647.4
160°	1665.9	1663.6	1661.3	1659.1	1661.3	1663.6	1665.9	1668.3	1668.8	1667.7	1666.5
162.5°	1684.3	1681.7	1679.2	1676.6	1679.2	1681.7	1684.3	1686.8	1687.2	1685.7	1684.0
165°	1707.4	1705.1	1702.8	1700.5	1702.8	1705.1	1707.4	1709.7	1710.0	1708.3	1706.5
167.5°	1724.8	1722.3	1719.7	1717.1	1719.7	1722.3	1724.8	1727.4	1727.7	1725.6	1723.5
170°	1734.2	1731.6	1729.0	1726.4	1729.0	1731.6	1734.2	1736.8	1736.9	1734.7	1732.3
172.5°	1740.4	1737.8	1735.3	1732.7	1735.3	1737.8	1740.4	1743.0	1743.3	1741.2	1739.1
175°	1748.4	1745.8	1743.3	1740.7	1743.3	1745.8	1748.4	1751.0	1751.2	1748.9	1746.5
177.5°	1750.8	1749.0	1747.1	1745.3	1747.1	1749.0	1750.8	1752.7	1752.8	1751.2	1749.6
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



TEST NUMBER: P333454-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1309.2	1314.7	1321.7	1326.8	1336.1	1340.3	1345.4	1349.6	1357.0	1364.0	1372.4
5°	1221.0	1230.8	1244.2	1258.7	1275.6	1287.2	1303.5	1313.4	1333.1	1351.2	1368.6
7.5°	1141.0	1153.1	1172.0	1190.6	1212.7	1232.7	1253.0	1275.6	1300.8	1330.6	1355.2
10°	1086.2	1102.4	1122.7	1146.0	1172.8	1195.9	1223.3	1247.7	1278.5	1313.4	1345.9
12.5°	1042.4	1056.4	1079.0	1101.4	1130.0	1158.3	1186.5	1218.8	1254.8	1293.4	1334.3
15°	982.1	993.8	1012.4	1043.1	1072.2	1100.1	1142.5	1172.8	1218.1	1261.0	1310.4
17.5°	930.7	945.0	960.7	987.1	1017.2	1052.1	1089.9	1127.8	1171.6	1226.1	1281.8
20°	899.0	910.6	928.7	949.0	980.9	1015.8	1051.9	1090.2	1143.7	1200.1	1259.9
22.5°	864.6	877.2	897.5	919.7	946.6	980.0	1019.8	1061.9	1117.7	1173.1	1238.0
25°	824.1	832.8	851.4	871.2	897.9	926.3	967.6	1014.1	1069.3	1132.6	1198.9
27.5°	785.8	793.5	810.5	827.7	851.8	885.6	922.5	969.5	1021.5	1085.6	1159.2
30°	758.4	766.5	781.6	800.2	823.5	853.1	890.9	935.0	990.8	1053.6	1130.3
32.5°	734.7	741.8	753.3	771.9	794.6	823.4	858.3	903.4	959.2	1022.9	1098.2
35°	697.9	706.1	714.8	729.4	749.1	777.0	815.4	857.7	911.2	972.8	1042.0
37.5°	661.4	670.3	678.0	691.1	709.1	733.7	766.9	811.1	859.4	918.8	985.2
40°	638.7	645.7	652.0	666.0	684.0	707.2	738.0	777.6	828.7	883.9	939.1
42.5°	615.9	622.4	627.8	640.0	656.6	678.9	708.3	746.8	794.3	845.8	894.5
45°	580.0	584.0	590.4	600.9	614.2	634.6	663.1	697.3	737.4	786.3	822.9
47.5°	541.1	547.5	552.8	562.0	572.9	592.9	620.2	649.4	685.7	722.0	747.8
50°	511.4	517.8	525.4	534.1	544.5	563.1	588.1	617.8	648.5	676.4	698.5
52.5°	483.5	489.4	497.5	505.7	518.5	534.3	555.6	581.9	612.3	632.2	650.7
55°	442.2	445.1	454.4	462.6	474.8	486.4	507.9	531.2	549.7	564.9	580.0
57.5°	400.0	404.0	409.3	416.6	428.8	442.4	457.4	478.0	489.0	496.7	508.5
60°	373.1	374.3	377.7	386.4	395.7	407.9	425.4	439.9	448.1	454.4	464.3
62.5°	343.4	343.5	349.4	355.8	362.7	375.9	390.0	401.8	408.5	411.6	421.1
65°	301.6	300.4	303.9	309.2	317.3	326.0	338.2	348.7	348.1	351.5	357.4
67.5°	259.0	257.8	257.8	262.8	269.4	277.2	285.6	291.6	291.7	296.4	299.3
70°	230.1	226.6	228.9	233.1	235.9	242.4	251.7	254.0	254.5	256.8	259.8
72.5°	200.4	199.2	201.0	202.9	204.8	209.8	217.7	219.1	219.2	220.6	225.3
75°	159.2	158.1	156.9	158.7	161.0	164.5	167.4	169.7	169.1	169.7	173.1
77.5°	119.3	116.1	115.5	116.5	117.0	119.2	122.2	121.9	122.5	122.3	126.3
80°	94.7	90.1	89.5	89.5	90.1	91.3	92.4	93.6	91.8	93.6	94.7
82.5°	69.7	66.8	66.7	66.2	66.4	66.6	67.3	68.0	67.7	68.4	69.1
85°	38.3	37.2	35.5	36.6	36.0	34.3	35.5	33.7	33.1	33.7	34.3
87.5°	17.5	17.7	16.3	15.9	15.1	15.1	13.7	12.8	11.9	11.9	12.8
90°	22.2	20.8	18.7	16.7	14.7	12.7	10.5	8.2	5.9	3.6	1.3
92.5°	22.2	20.8	18.9	17.1	15.4	13.6	13.5	15.2	16.7	18.3	20.0
95°	22.2	20.8	31.7	42.6	53.6	64.5	70.4	71.3	72.2	73.0	73.9
97.5°	55.6	63.8	85.4	107.1	128.7	150.4	160.5	158.9	157.3	155.8	154.2
100°	182.6	225.5	224.4	223.3	222.1	220.9	219.9	219.0	218.2	217.3	216.5
102.5°	279.7	287.7	287.1	286.4	285.7	285.0	284.0	283.0	281.9	280.8	279.7
105°	386.2	386.2	386.2	386.2	386.2	386.2	385.6	384.5	383.4	382.2	381.1
107.5°	489.0	488.9	488.4	487.8	487.2	486.6	486.3	486.3	486.3	486.3	486.3
110°	556.5	557.3	556.7	556.2	555.6	555.0	554.7	554.7	554.7	554.7	554.7



TEST NUMBER: P333454-935

CATALOG NUMBER: S125DIW-S1090D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	622.6	623.7	623.4	623.0	622.7	622.3	621.8	621.1	620.4	619.7	619.1
115°	722.0	723.2	723.0	722.6	722.4	722.0	721.2	719.8	718.3	716.9	715.5
117.5°	818.4	819.9	818.8	817.7	816.7	815.5	815.0	815.1	815.1	815.2	815.3
120°	879.5	880.0	879.2	878.3	877.4	876.6	876.3	876.6	876.9	877.2	877.4
122.5°	938.6	939.2	938.7	938.3	938.0	937.5	936.8	935.7	934.6	933.5	932.5
125°	1025.4	1026.5	1026.5	1026.5	1026.5	1026.5	1025.5	1023.5	1021.5	1019.4	1017.4
127.5°	1103.6	1104.3	1104.5	1104.7	1104.8	1105.0	1104.3	1102.9	1101.5	1100.0	1098.5
130°	1155.3	1156.2	1155.8	1155.5	1155.3	1154.9	1154.1	1152.7	1151.2	1149.8	1148.3
132.5°	1202.6	1202.8	1203.4	1204.0	1204.7	1205.3	1204.8	1203.2	1201.4	1199.8	1198.1
135°	1273.5	1274.1	1274.6	1275.2	1275.8	1276.3	1275.8	1274.1	1272.4	1270.6	1268.9
137.5°	1338.5	1338.3	1338.9	1339.4	1339.9	1340.4	1340.0	1338.4	1337.0	1335.4	1333.9
140°	1378.4	1377.8	1378.0	1378.4	1378.6	1378.9	1378.8	1378.2	1377.6	1377.1	1376.5
142.5°	1418.3	1418.2	1417.8	1417.4	1417.0	1416.6	1416.2	1415.8	1415.5	1415.1	1414.8
145°	1473.9	1473.7	1473.7	1473.7	1473.7	1473.7	1473.4	1472.8	1472.2	1471.6	1471.1
147.5°	1521.7	1521.4	1521.0	1520.7	1520.4	1520.0	1519.8	1520.0	1520.1	1520.2	1520.4
150°	1552.0	1551.4	1550.8	1550.3	1549.7	1549.1	1549.1	1549.7	1550.3	1550.8	1551.4
152.5°	1579.0	1578.4	1577.9	1577.3	1576.7	1576.1	1576.4	1577.7	1579.0	1580.3	1581.5
155°	1615.8	1615.0	1614.4	1613.8	1613.3	1612.7	1613.3	1615.0	1616.7	1618.4	1620.1
157.5°	1646.5	1645.5	1645.5	1645.5	1645.4	1645.3	1645.8	1646.8	1647.9	1648.9	1649.9
160°	1665.3	1664.2	1663.9	1663.6	1663.4	1663.0	1663.8	1665.5	1667.2	1669.0	1670.7
162.5°	1682.4	1680.8	1680.5	1680.2	1679.9	1679.6	1680.3	1682.0	1683.9	1685.6	1687.3
165°	1704.8	1703.1	1702.8	1702.5	1702.2	1701.9	1702.6	1704.3	1706.1	1707.9	1709.6
167.5°	1721.5	1719.4	1719.2	1718.8	1718.6	1718.3	1719.0	1720.8	1722.6	1724.4	1726.1
170°	1730.0	1727.7	1727.4	1727.2	1726.8	1726.6	1727.4	1729.4	1731.5	1733.5	1735.5
172.5°	1737.1	1735.0	1734.5	1734.0	1733.5	1732.9	1733.6	1735.7	1737.7	1739.7	1741.7
175°	1744.3	1742.0	1741.7	1741.4	1741.1	1740.9	1741.5	1743.3	1745.0	1746.7	1748.4
177.5°	1748.0	1746.4	1746.1	1745.9	1745.7	1745.4	1746.0	1747.4	1748.8	1750.2	1751.5
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



TEST NUMBER: P333454-935

CATALOG NUMBER: S125DIW-S1090D1560U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1376.6	1383.1	1387.2	1395.2	1401.7	1405.4	1408.7	1411.4	1414.7	1417.5	1425.4
5°	1385.4	1400.5	1413.3	1433.0	1451.1	1465.1	1480.1	1493.5	1504.5	1520.3	1532.4
7.5°	1381.6	1408.4	1436.6	1467.1	1498.4	1527.4	1554.2	1579.2	1601.8	1629.3	1653.3
10°	1377.9	1414.5	1450.5	1491.8	1534.2	1570.2	1604.0	1638.2	1663.2	1698.1	1727.7
12.5°	1375.1	1418.2	1461.6	1511.3	1557.9	1608.8	1653.6	1678.7	1716.7	1744.6	1779.8
15°	1363.3	1420.3	1480.1	1535.9	1602.1	1649.2	1688.8	1737.6	1773.1	1808.4	1846.8
17.5°	1342.3	1406.8	1473.8	1546.9	1610.4	1661.0	1711.9	1758.9	1801.3	1848.8	1896.6
20°	1332.6	1397.1	1473.8	1548.7	1610.9	1663.8	1716.1	1767.8	1814.3	1875.3	1930.5
22.5°	1312.1	1390.1	1460.8	1533.9	1597.8	1655.4	1714.7	1773.4	1835.2	1904.1	1973.3
25°	1275.6	1354.6	1429.6	1501.7	1566.2	1638.2	1701.6	1780.0	1859.1	1950.3	2036.3
27.5°	1237.7	1313.4	1382.1	1451.6	1526.9	1608.4	1690.7	1779.7	1883.1	1998.3	2119.6
30°	1207.0	1278.5	1345.3	1416.8	1495.2	1587.1	1677.1	1782.9	1902.6	2032.2	2176.3
32.5°	1171.2	1237.1	1302.1	1377.8	1463.2	1560.1	1665.1	1781.1	1924.9	2072.2	2220.5
35°	1110.0	1165.2	1232.0	1312.8	1409.3	1520.3	1641.7	1778.8	1943.9	2113.0	2237.9
37.5°	1037.3	1088.7	1159.2	1247.7	1348.8	1467.9	1612.1	1774.8	1950.1	2084.9	2125.2
40°	988.5	1036.1	1109.4	1201.2	1304.7	1430.7	1588.8	1760.8	1930.5	2016.5	1983.4
42.5°	936.4	986.4	1057.7	1148.7	1260.0	1397.3	1559.5	1731.6	1873.8	1906.3	1791.8
45°	854.3	905.9	976.3	1068.2	1187.8	1336.6	1505.7	1662.1	1744.0	1685.3	1508.0
47.5°	777.9	826.4	891.6	986.3	1109.8	1263.7	1426.6	1551.3	1557.8	1417.7	1228.4
50°	725.8	770.6	836.3	931.0	1053.6	1209.4	1356.3	1454.6	1410.4	1251.7	1069.9
52.5°	674.7	718.5	783.3	877.0	998.2	1141.0	1277.8	1346.7	1263.5	1100.7	945.3
55°	600.9	639.2	702.6	789.2	904.2	1036.7	1153.0	1176.8	1068.7	908.3	782.2
57.5°	528.8	564.6	622.2	702.0	807.2	924.5	1015.5	1010.4	896.1	758.5	658.4
60°	480.0	514.9	566.0	643.9	739.8	840.9	918.8	900.2	786.9	668.3	584.0
62.5°	436.4	467.4	515.8	583.9	671.4	765.1	829.1	801.6	690.6	586.9	520.4
65°	372.0	398.0	439.4	497.5	570.1	647.4	696.8	661.3	566.6	485.9	432.4
67.5°	310.5	331.4	366.0	412.3	474.3	536.4	566.5	530.8	455.0	396.1	356.5
70°	271.4	290.0	316.7	358.0	412.0	464.3	487.0	455.0	389.9	339.4	310.9
72.5°	232.3	247.7	271.1	308.2	351.5	396.9	416.8	386.2	332.8	290.1	263.5
75°	179.6	190.0	206.3	231.9	266.1	302.2	313.2	286.5	252.2	220.2	202.9
77.5°	128.5	137.4	149.7	165.8	190.1	213.0	222.7	207.2	180.7	160.5	146.2
80°	98.8	103.4	113.9	127.3	146.5	161.0	167.4	157.5	138.9	123.8	112.7
82.5°	70.4	75.1	81.4	92.4	104.6	114.5	121.3	114.7	101.3	89.4	83.0
85°	34.3	37.2	40.6	45.3	54.6	60.4	59.8	55.8	50.5	45.9	42.4
87.5°	12.8	13.8	15.6	18.3	20.2	22.5	23.8	23.2	21.8	20.8	19.6
90°	3.6	5.9	8.2	10.5	12.7	14.7	16.7	18.7	20.8	22.2	23.6
92.5°	18.3	16.7	15.2	13.5	13.6	15.4	17.1	18.9	20.8	22.2	23.6
95°	73.0	72.2	71.3	70.4	64.5	53.6	42.6	31.7	20.8	22.2	23.6
97.5°	155.8	157.3	158.9	160.5	150.4	128.7	107.1	85.4	63.8	55.6	47.5
100°	217.3	218.2	219.0	219.9	220.9	222.1	223.3	224.4	225.5	182.6	139.7
102.5°	280.8	281.9	283.0	284.0	285.0	285.7	286.4	287.1	287.7	279.7	271.5
105°	382.2	383.4	384.5	385.6	386.2	386.2	386.2	386.2	386.2	386.2	386.2
107.5°	486.3	486.3	486.3	486.3	486.6	487.2	487.8	488.4	488.9	489.0	489.0
110°	554.7	554.7	554.7	554.7	555.0	555.6	556.2	556.7	557.3	556.5	555.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	619.7	620.4	621.1	621.8	622.3	622.7	623.0	623.4	623.7	622.6	621.5
115°	716.9	718.3	719.8	721.2	722.0	722.4	722.6	723.0	723.2	722.0	720.9
117.5°	815.2	815.1	815.1	815.0	815.5	816.7	817.7	818.8	819.9	818.4	816.9
120°	877.2	876.9	876.6	876.3	876.6	877.4	878.3	879.2	880.0	879.5	878.9
122.5°	933.5	934.6	935.7	936.8	937.5	938.0	938.3	938.7	939.2	938.6	938.0
125°	1019.4	1021.5	1023.5	1025.5	1026.5	1026.5	1026.5	1026.5	1026.5	1025.4	1024.2
127.5°	1100.0	1101.5	1102.9	1104.3	1105.0	1104.8	1104.7	1104.5	1104.3	1103.6	1103.0
130°	1149.8	1151.2	1152.7	1154.1	1154.9	1155.3	1155.5	1155.8	1156.2	1155.3	1154.4
132.5°	1199.8	1201.4	1203.2	1204.8	1205.3	1204.7	1204.0	1203.4	1202.8	1202.6	1202.5
135°	1270.6	1272.4	1274.1	1275.8	1276.3	1275.8	1275.2	1274.6	1274.1	1273.5	1272.9
137.5°	1335.4	1337.0	1338.4	1340.0	1340.4	1339.9	1339.4	1338.9	1338.3	1338.5	1338.6
140°	1377.1	1377.6	1378.2	1378.8	1378.9	1378.6	1378.4	1378.0	1377.8	1378.4	1378.9
142.5°	1415.1	1415.5	1415.8	1416.2	1416.6	1417.0	1417.4	1417.8	1418.2	1418.3	1418.4
145°	1471.6	1472.2	1472.8	1473.4	1473.7	1473.7	1473.7	1473.7	1473.7	1473.9	1474.3
147.5°	1520.2	1520.1	1520.0	1519.8	1520.0	1520.4	1520.7	1521.0	1521.4	1521.7	1522.1
150°	1550.8	1550.3	1549.7	1549.1	1549.1	1549.7	1550.3	1550.8	1551.4	1552.0	1552.6
152.5°	1580.3	1579.0	1577.7	1576.4	1576.1	1576.7	1577.3	1577.9	1578.4	1579.0	1579.6
155°	1618.4	1616.7	1615.0	1613.3	1612.7	1613.3	1613.8	1614.4	1615.0	1615.8	1616.7
157.5°	1648.9	1647.9	1646.8	1645.8	1645.3	1645.4	1645.5	1645.5	1645.5	1646.5	1647.4
160°	1669.0	1667.2	1665.5	1663.8	1663.0	1663.4	1663.6	1663.9	1664.2	1665.3	1666.5
162.5°	1685.6	1683.9	1682.0	1680.3	1679.6	1679.9	1680.2	1680.5	1680.8	1682.4	1684.0
165°	1707.9	1706.1	1704.3	1702.6	1701.9	1702.2	1702.5	1702.8	1703.1	1704.8	1706.5
167.5°	1724.4	1722.6	1720.8	1719.0	1718.3	1718.6	1718.8	1719.2	1719.4	1721.5	1723.5
170°	1733.5	1731.5	1729.4	1727.4	1726.6	1726.8	1727.2	1727.4	1727.7	1730.0	1732.3
172.5°	1739.7	1737.7	1735.7	1733.6	1732.9	1733.5	1734.0	1734.5	1735.0	1737.1	1739.1
175°	1746.7	1745.0	1743.3	1741.5	1740.9	1741.1	1741.4	1741.7	1742.0	1744.3	1746.5
177.5°	1750.2	1748.8	1747.4	1746.0	1745.4	1745.7	1745.9	1746.1	1746.4	1748.0	1749.6
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1431.9	1435.6	1443.6	1440.7	1444.5	1446.3	1448.2
5°	1547.6	1566.2	1574.3	1573.1	1585.4	1582.4	1579.5
7.5°	1678.2	1697.7	1708.7	1722.3	1730.2	1730.7	1737.6
10°	1752.1	1777.7	1788.1	1802.7	1812.0	1817.2	1816.6
12.5°	1808.9	1828.9	1852.3	1859.4	1872.0	1878.5	1876.1
15°	1877.1	1909.0	1933.5	1945.6	1961.4	1966.0	1972.4
17.5°	1937.9	1980.8	2009.3	2047.2	2061.5	2070.2	2065.1
20°	1984.0	2040.4	2068.8	2114.2	2139.2	2152.5	2147.9
22.5°	2038.4	2099.4	2152.1	2191.3	2229.3	2247.4	2251.1
25°	2131.6	2215.3	2292.6	2344.3	2391.3	2402.4	2426.8
27.5°	2235.8	2334.4	2417.1	2471.4	2504.2	2516.5	2524.2
30°	2301.3	2399.5	2461.7	2496.6	2507.0	2505.9	2504.6
32.5°	2333.4	2394.9	2406.8	2397.0	2373.1	2352.9	2331.8
35°	2287.9	2242.0	2173.4	2085.1	2020.0	1954.4	1947.9
37.5°	2057.7	1910.9	1796.7	1669.2	1595.7	1550.2	1518.9
40°	1841.0	1674.2	1535.9	1428.4	1353.5	1323.8	1294.8
42.5°	1605.8	1446.5	1324.0	1234.1	1177.8	1144.9	1121.8
45°	1304.7	1164.0	1068.2	1003.1	958.3	932.7	918.2
47.5°	1069.0	965.0	883.6	836.6	805.7	785.8	785.9
50°	942.6	843.3	789.2	752.0	725.2	709.6	712.5
52.5°	830.5	756.3	710.2	679.0	659.3	649.6	649.3
55°	694.5	641.0	610.8	588.1	574.7	563.7	566.0
57.5°	594.0	549.0	528.7	509.9	500.6	496.2	489.7
60°	531.8	496.9	479.4	464.3	455.0	451.5	445.1
62.5°	476.4	449.0	432.0	419.7	411.3	410.2	405.2
65°	400.4	379.4	364.4	358.5	349.8	347.5	347.5
67.5°	330.1	315.1	303.3	298.0	294.2	294.7	292.0
70°	285.9	273.7	266.1	260.4	257.4	258.0	255.7
72.5°	250.1	236.5	229.9	226.4	222.6	224.1	223.2
75°	189.4	182.4	179.0	175.5	173.1	172.0	170.8
77.5°	139.1	132.9	130.3	128.3	128.6	125.9	128.1
80°	107.5	102.3	100.6	97.6	97.0	97.0	96.4
82.5°	78.7	75.8	74.5	72.1	71.0	72.0	70.4
85°	40.6	38.3	37.8	37.8	36.6	35.5	38.3
87.5°	19.9	18.3	18.5	18.3	18.4	18.2	17.4
90°	25.1	26.5	27.6	28.5	29.4	30.2	31.1
92.5°	25.1	26.5	27.4	27.8	28.2	28.7	29.0
95°	25.1	26.5	27.2	27.2	27.2	27.2	27.2
97.5°	39.4	31.3	27.2	27.2	27.2	27.2	27.2
100°	96.8	53.9	31.9	30.7	29.5	28.4	27.2
102.5°	263.4	255.3	241.4	221.8	202.2	182.6	163.1
105°	386.2	386.2	386.1	385.8	385.6	385.2	385.0
107.5°	489.0	489.1	488.7	487.8	487.0	486.1	485.3
110°	554.7	553.9	553.6	553.9	554.1	554.5	554.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	620.4	619.3	618.5	618.2	617.8	617.3	616.9
115°	719.8	718.6	717.2	715.5	713.7	712.0	710.2
117.5°	815.5	813.9	812.8	812.1	811.3	810.5	809.8
120°	878.3	877.8	876.8	875.3	873.8	872.5	871.0
122.5°	937.5	936.9	935.7	934.1	932.4	930.7	929.0
125°	1023.0	1021.9	1020.9	1020.0	1019.2	1018.3	1017.4
127.5°	1102.4	1101.7	1100.4	1098.2	1096.1	1094.0	1091.8
130°	1153.6	1152.7	1151.5	1150.1	1148.7	1147.2	1145.7
132.5°	1202.3	1202.1	1201.3	1199.9	1198.4	1197.0	1195.5
135°	1272.4	1271.8	1270.6	1268.9	1267.1	1265.4	1263.7
137.5°	1338.7	1338.9	1338.2	1336.6	1335.2	1333.6	1332.1
140°	1379.5	1380.1	1379.5	1377.8	1376.1	1374.3	1372.6
142.5°	1418.6	1418.7	1417.9	1416.1	1414.4	1412.6	1410.9
145°	1474.5	1474.8	1474.1	1472.4	1470.7	1469.0	1467.2
147.5°	1522.4	1522.8	1521.9	1519.8	1517.8	1515.7	1513.6
150°	1553.2	1553.8	1552.9	1550.6	1548.3	1546.0	1543.7
152.5°	1580.1	1580.7	1579.9	1577.9	1575.8	1573.7	1571.7
155°	1617.6	1618.4	1617.6	1615.4	1613.1	1610.8	1608.4
157.5°	1648.3	1649.2	1648.6	1646.2	1643.9	1641.6	1639.3
160°	1667.7	1668.8	1668.3	1665.9	1663.6	1661.3	1659.1
162.5°	1685.7	1687.2	1686.8	1684.3	1681.7	1679.2	1676.6
165°	1708.3	1710.0	1709.7	1707.4	1705.1	1702.8	1700.5
167.5°	1725.6	1727.7	1727.4	1724.8	1722.3	1719.7	1717.1
170°	1734.7	1736.9	1736.8	1734.2	1731.6	1729.0	1726.4
172.5°	1741.2	1743.3	1743.0	1740.4	1737.8	1735.3	1732.7
175°	1748.9	1751.2	1751.0	1748.4	1745.8	1743.3	1740.7
177.5°	1751.2	1752.8	1752.7	1750.8	1749.0	1747.1	1745.3
180°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4

(END OF REPORT)