

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: METALUX

Report Number: P563540

Luminaire Tested: **4NWS3C3-UNV-HI-3500K**

Issue Date: 7/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (s22030032e-01)
Test Lab: INNOVATION CENTER
Issue Date: 7/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4NWS3C3-UNV-HI-3500K
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND HI LUMEN SETTING
Light Source: -
Ballast/Driver:

Summary

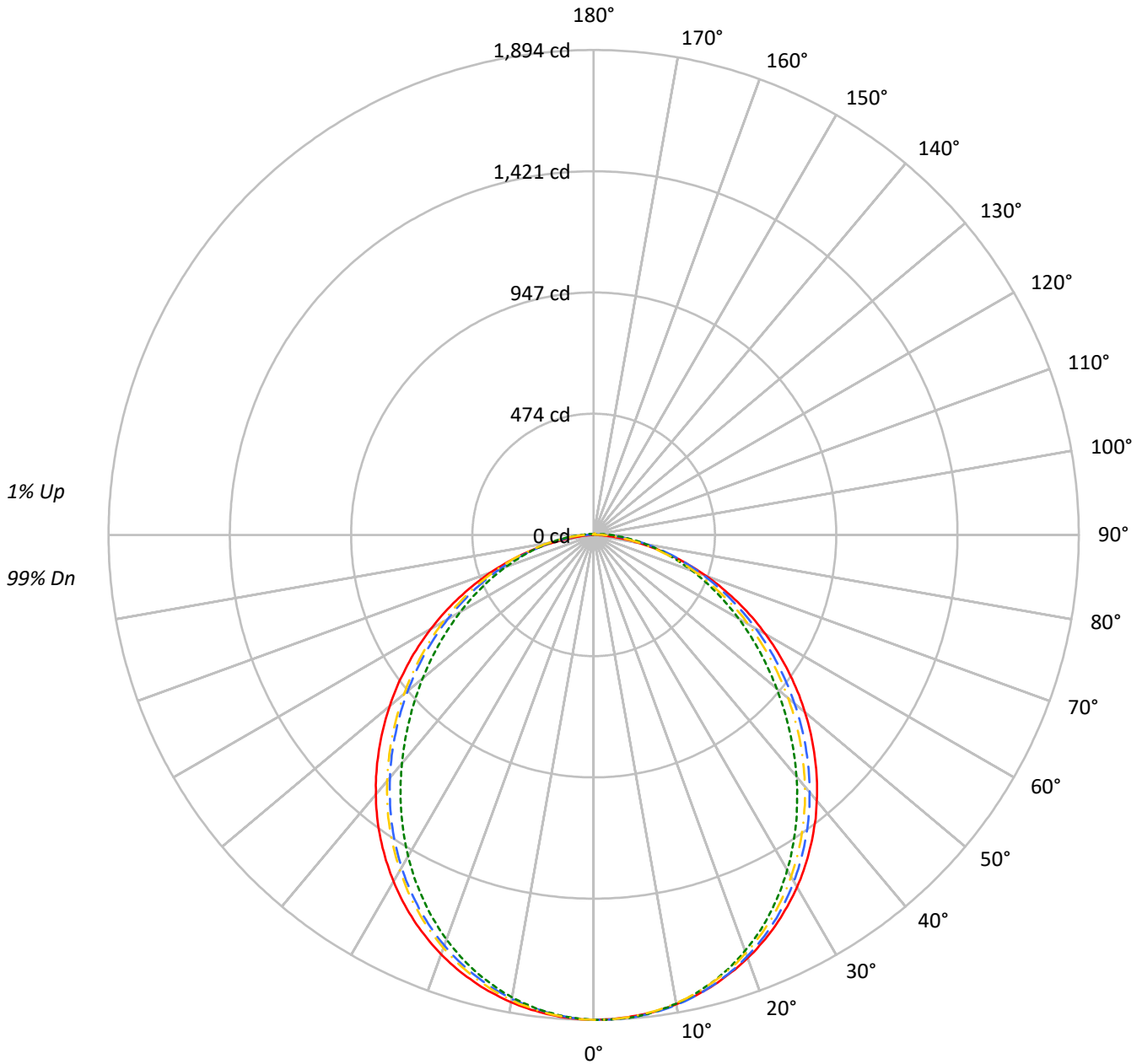
Lumens per Lamp: N/A
Luminaire Lumens: 4937.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 40.6
Input Voltage (V):
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									
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	57	53	51																			
5	77	64	55	48	74	63	54	48	60	53	48	58	52	47	56	51	46	44																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	48	42	37	47	41	36	35																			
8	61	48	39	34	60	47	39	34	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11510	11510	11510	11510
5°	11482	11337	11462	11253
10°	11446	11109	11397	10958
15°	11382	10818	11305	10595
20°	11288	10463	11188	10180
25°	11171	10051	11032	9699
30°	11012	9570	10838	9174
35°	10812	9032	10603	8595
40°	10564	8446	10317	7985
45°	10278	7831	9983	7355
50°	9939	7206	9589	6729
55°	9541	6607	9136	6116
60°	9088	6010	8610	5515
65°	8539	5403	7977	4906
70°	7844	4794	7171	4276
75°	6923	4162	6079	3599
80°	5594	3480	4551	2889
85°	3580	2780	2300	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.6
10°-20°	507.3	10.3
20°-30°	753.3	15.3
30°-40°	878.1	17.8
40°-50°	869.3	17.6
50°-60°	746.6	15.1
60°-70°	546.4	11.1
70°-80°	310.2	6.3
80°-90°	103.3	2.1
90°-100°	18.7	0.4
100°-110°	7.9	0.2
110°-120°	4.7	0.1
120°-130°	3.3	0.1
130°-140°	3.0	0.1
140°-150°	2.8	0.1
150°-160°	1.9	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	1439.3	29.2
0°-40°	2317.4	46.9
0°-60°	3933.3	79.7
0°-90°	4893.2	99.1
90°-120°	31.3	0.6
90°-150°	40.4	0.8
90°-180°	44.0	0.9
0°-180°	4937.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1894	1894	1894	1894	1894	
5°	1885	1888	1882	1874	1885	179
15°	1819	1805	1806	1768	1819	513
25°	1682	1630	1661	1573	1682	775
35°	1478	1377	1450	1310	1478	924
45°	1220	1082	1185	1016	1220	941
55°	927	790	888	732	927	829
65°	620	527	579	478	620	614
75°	318	301	279	260	318	336
85°	64	125	41	100	64	76
90°	4	66	1	51	4	3
95°	0	32	1	27	0	0
105°	2	12	3	16	2	2
115°	2	5	4	10	2	2
125°	3	3	4	5	3	2
135°	3	4	4	3	3	2
145°	3	5	4	4	3	2
155°	2	5	4	4	2	1
165°	2	4	3	5	2	1
175°	4	4	4	4	4	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
0.5°	1893.1	1893.2	1893.3	1893.5	1893.7	1893.8	1893.9	1894.0	1894.0	1894.1	1894.0
1°	1892.9	1893.1	1893.5	1893.8	1894.1	1894.2	1894.2	1894.2	1893.6	1892.9	1893.4
1.5°	1892.9	1893.7	1893.8	1893.1	1892.9	1893.1	1893.8	1894.2	1893.6	1894.5	1894.7
2°	1892.6	1893.1	1893.2	1893.1	1893.5	1894.1	1894.5	1894.5	1893.5	1893.6	1894.0
2.5°	1891.9	1892.4	1892.4	1892.6	1892.7	1892.1	1892.3	1892.1	1894.1	1892.9	1892.1
3°	1890.6	1891.0	1891.8	1892.2	1892.6	1892.7	1893.2	1893.5	1892.8	1892.6	1892.7
3.5°	1889.3	1890.2	1891.0	1892.5	1891.9	1892.3	1892.3	1891.8	1892.4	1891.1	1890.6
4°	1888.5	1890.1	1889.7	1891.4	1891.0	1891.3	1891.2	1890.8	1889.9	1891.9	1890.2
4.5°	1886.4	1888.0	1888.5	1889.6	1890.6	1890.5	1889.7	1890.6	1889.8	1890.0	1888.2
5°	1885.2	1886.7	1887.3	1888.0	1889.1	1889.1	1887.3	1888.0	1888.5	1888.5	1886.9
5.5°	1884.0	1885.4	1886.2	1886.5	1887.1	1886.5	1885.9	1885.9	1886.7	1886.3	1884.5
6°	1882.5	1883.8	1884.1	1885.1	1886.0	1885.1	1884.7	1884.1	1884.3	1883.8	1881.9
6.5°	1880.5	1882.1	1882.4	1883.0	1884.0	1883.2	1883.4	1882.1	1882.1	1882.0	1879.9
7°	1878.6	1879.5	1881.1	1880.6	1880.7	1879.6	1881.3	1879.5	1879.3	1879.1	1877.6
7.5°	1876.0	1877.0	1878.3	1879.4	1879.2	1878.3	1877.7	1877.1	1876.3	1874.9	1875.0
8°	1874.1	1874.1	1876.2	1876.5	1876.4	1875.6	1874.9	1874.4	1873.7	1872.7	1872.2
8.5°	1870.5	1870.9	1873.7	1873.3	1873.7	1873.2	1872.1	1871.3	1870.1	1869.4	1868.0
9°	1868.5	1870.2	1870.4	1871.1	1871.1	1870.4	1868.4	1868.1	1866.7	1867.2	1864.5
9.5°	1865.1	1866.7	1868.1	1867.7	1868.0	1866.4	1864.2	1864.2	1863.3	1861.4	1860.8
10°	1861.3	1863.5	1864.6	1864.7	1864.3	1863.1	1860.9	1859.7	1859.1	1859.4	1857.6
10.5°	1857.9	1859.7	1861.4	1861.5	1860.7	1859.3	1856.9	1855.5	1854.8	1854.5	1853.0
11°	1854.0	1855.2	1857.4	1857.5	1856.8	1856.0	1852.2	1851.7	1851.3	1850.0	1848.6
11.5°	1850.0	1852.5	1853.4	1853.9	1852.3	1851.7	1848.1	1847.6	1846.4	1845.5	1843.9
12°	1846.1	1848.4	1850.1	1850.2	1848.4	1847.0	1844.3	1842.8	1840.2	1840.7	1838.1
12.5°	1842.5	1844.3	1845.9	1846.0	1843.6	1842.6	1839.7	1837.8	1835.6	1835.1	1833.6
13°	1838.1	1840.5	1841.8	1841.2	1838.4	1838.0	1834.5	1832.8	1830.8	1828.9	1828.2
13.5°	1833.2	1836.1	1837.4	1836.9	1834.1	1833.0	1828.3	1827.0	1825.1	1823.0	1821.3
14°	1828.7	1831.4	1832.5	1832.7	1829.0	1826.9	1823.6	1821.2	1819.3	1816.8	1816.0
14.5°	1824.1	1826.6	1827.7	1827.7	1823.4	1822.0	1818.7	1815.3	1812.3	1811.6	1809.1
15°	1818.8	1821.8	1822.6	1822.1	1818.8	1816.6	1812.3	1809.3	1806.4	1805.4	1803.9
15.5°	1814.0	1816.8	1816.9	1816.1	1813.7	1811.0	1805.5	1803.5	1799.9	1799.0	1796.7
16°	1808.1	1811.7	1812.1	1810.9	1807.5	1804.5	1799.6	1796.7	1793.8	1791.5	1789.5
16.5°	1801.6	1806.1	1807.0	1805.5	1801.5	1798.2	1792.9	1789.5	1786.6	1783.8	1783.1
17°	1795.6	1800.5	1800.6	1799.8	1796.1	1791.9	1786.5	1782.2	1779.0	1777.5	1776.5
17.5°	1790.6	1794.2	1794.7	1793.4	1789.7	1784.9	1778.5	1775.1	1771.1	1770.3	1768.2
18°	1785.1	1787.9	1788.8	1787.0	1782.7	1778.3	1772.0	1767.7	1763.7	1761.6	1760.7
18.5°	1778.1	1782.6	1783.1	1781.0	1776.3	1771.4	1764.5	1759.8	1756.5	1753.6	1752.6
19°	1771.5	1776.4	1776.9	1774.1	1769.6	1763.9	1757.6	1751.9	1747.9	1745.3	1744.9
19.5°	1764.9	1769.2	1769.5	1767.2	1762.2	1756.0	1749.2	1744.1	1739.2	1738.0	1735.0
20°	1758.3	1762.3	1762.3	1760.1	1754.9	1748.3	1740.7	1735.4	1731.0	1727.9	1727.1
20.5°	1751.5	1755.7	1755.6	1752.9	1747.6	1740.9	1732.5	1726.6	1722.5	1719.4	1717.9
21°	1744.8	1748.9	1748.5	1745.5	1739.3	1732.6	1724.7	1717.9	1713.8	1709.8	1709.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1721.6	1726.0	1726.3	1722.1	1715.7	1707.5	1698.2	1690.8	1685.3	1682.1	1680.1
23°	1714.7	1718.4	1718.0	1714.0	1707.4	1699.0	1689.2	1681.3	1675.3	1673.2	1670.8
23.5°	1706.1	1710.6	1710.1	1705.8	1698.9	1689.7	1680.1	1671.2	1665.1	1662.1	1660.4
24°	1697.9	1702.6	1702.3	1697.2	1689.9	1680.7	1669.7	1661.2	1654.9	1651.8	1650.4
24.5°	1690.1	1694.2	1693.6	1688.9	1680.5	1671.1	1661.2	1651.7	1644.5	1641.1	1639.3
25°	1681.8	1686.2	1684.8	1680.1	1671.9	1661.4	1651.1	1641.3	1633.8	1629.6	1628.8
25.5°	1672.7	1677.2	1676.3	1671.0	1663.3	1651.8	1640.5	1630.6	1623.4	1619.3	1617.5
26°	1664.0	1667.7	1667.3	1661.2	1653.8	1641.5	1629.9	1619.4	1611.6	1607.0	1606.8
26.5°	1654.8	1659.2	1657.2	1652.6	1643.1	1631.4	1619.0	1608.7	1600.7	1596.6	1594.9
27°	1645.6	1650.7	1648.2	1642.5	1633.1	1621.3	1608.5	1597.6	1589.4	1584.2	1584.1
27.5°	1636.6	1641.3	1639.5	1632.5	1623.2	1610.4	1598.6	1586.1	1576.9	1573.4	1572.2
28°	1626.7	1631.8	1630.2	1623.1	1613.1	1599.9	1586.1	1575.1	1565.7	1561.1	1559.7
28.5°	1617.1	1622.1	1620.4	1613.5	1603.2	1589.5	1575.2	1563.5	1553.0	1547.8	1547.2
29°	1608.2	1612.6	1610.6	1603.1	1592.0	1578.2	1564.1	1551.4	1542.3	1536.8	1535.4
29.5°	1598.3	1602.9	1600.3	1593.3	1581.4	1567.1	1553.0	1539.3	1528.5	1524.1	1524.1
30°	1587.7	1591.9	1590.1	1582.0	1570.6	1555.6	1540.5	1527.2	1516.6	1511.1	1511.5
30.5°	1577.8	1581.8	1579.7	1572.2	1559.6	1543.7	1528.7	1514.9	1502.8	1498.6	1497.8
31°	1567.7	1572.1	1569.0	1561.6	1549.0	1532.7	1516.1	1502.1	1491.4	1486.0	1484.5
31.5°	1557.0	1561.7	1558.6	1550.1	1537.7	1521.2	1503.9	1489.1	1478.3	1472.5	1471.1
32°	1545.6	1550.1	1547.4	1538.5	1525.7	1508.6	1491.8	1476.8	1465.1	1458.8	1458.4
32.5°	1534.6	1539.1	1536.5	1526.9	1513.9	1496.5	1479.4	1464.1	1452.9	1445.5	1445.3
33°	1524.1	1528.6	1525.2	1516.4	1502.1	1484.7	1467.0	1450.7	1439.2	1432.4	1432.1
33.5°	1512.8	1517.2	1514.0	1505.1	1490.7	1472.4	1454.2	1437.9	1425.2	1418.5	1418.1
34°	1501.1	1506.3	1502.6	1492.9	1478.7	1459.5	1440.6	1424.2	1411.6	1404.5	1404.4
34.5°	1489.2	1494.6	1491.0	1481.2	1466.7	1446.9	1427.4	1409.9	1397.5	1391.0	1390.2
35°	1478.2	1483.1	1479.8	1469.5	1453.9	1434.2	1414.6	1396.5	1383.1	1376.9	1376.7
35.5°	1466.8	1471.2	1468.4	1457.6	1441.2	1421.0	1401.1	1382.9	1369.2	1363.0	1362.5
36°	1454.8	1460.0	1455.5	1445.5	1429.0	1408.1	1387.7	1369.2	1354.9	1348.9	1348.3
36.5°	1442.6	1447.3	1443.6	1432.5	1416.8	1395.3	1374.2	1355.0	1340.9	1333.8	1334.5
37°	1430.7	1434.9	1431.3	1420.4	1403.7	1382.3	1360.8	1341.4	1325.9	1319.5	1320.0
37.5°	1419.0	1422.5	1418.9	1408.0	1390.6	1368.8	1346.7	1327.1	1312.1	1305.1	1305.3
38°	1407.4	1410.2	1407.0	1394.8	1377.6	1355.2	1332.7	1312.8	1298.0	1290.3	1290.1
38.5°	1394.3	1397.8	1393.3	1382.1	1364.2	1341.6	1318.7	1298.3	1283.6	1276.6	1276.0
39°	1380.7	1385.3	1380.9	1369.0	1350.9	1328.1	1304.9	1284.0	1269.4	1261.3	1260.7
39.5°	1367.5	1373.0	1368.1	1356.1	1337.2	1313.8	1290.9	1269.5	1253.9	1247.0	1246.9
40°	1354.5	1359.7	1355.4	1342.3	1323.9	1299.6	1276.0	1255.2	1239.2	1231.9	1232.0
40.5°	1342.4	1346.5	1342.4	1329.5	1310.2	1286.0	1261.7	1240.3	1224.1	1217.0	1216.4
41°	1329.4	1333.2	1329.1	1315.9	1296.5	1271.6	1247.4	1225.9	1209.5	1202.3	1201.4
41.5°	1315.8	1319.8	1315.3	1302.8	1282.7	1257.7	1232.6	1210.7	1193.8	1186.8	1186.7
42°	1302.9	1307.2	1302.3	1288.5	1269.2	1243.8	1218.9	1196.2	1179.7	1172.6	1171.5
42.5°	1289.8	1293.7	1288.6	1275.6	1254.3	1229.3	1204.2	1181.7	1164.8	1157.2	1156.6
43°	1276.1	1280.0	1275.1	1260.8	1240.4	1214.7	1189.4	1166.6	1149.8	1142.5	1141.8
43.5°	1261.9	1266.6	1261.2	1247.7	1227.0	1200.5	1174.5	1151.7	1134.6	1127.0	1127.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	1220.4	1224.7	1219.3	1204.9	1184.2	1156.8	1130.4	1106.9	1089.6	1081.8	1081.6
45.5°	1206.9	1210.8	1205.1	1190.5	1169.1	1142.2	1115.7	1092.0	1075.0	1066.5	1066.6
46°	1192.4	1196.7	1191.2	1176.4	1154.6	1127.4	1100.4	1077.1	1060.5	1050.9	1051.9
46.5°	1177.6	1182.0	1176.7	1162.0	1140.0	1112.5	1085.3	1062.2	1044.6	1036.9	1037.1
47°	1163.2	1168.1	1163.2	1147.6	1125.8	1097.8	1070.6	1047.0	1029.5	1021.9	1021.6
47.5°	1149.3	1153.5	1148.5	1133.9	1111.5	1083.2	1056.2	1031.5	1014.7	1007.0	1006.5
48°	1135.3	1139.4	1133.8	1119.5	1097.2	1068.3	1041.3	1017.0	1000.2	991.5	992.3
48.5°	1120.5	1124.2	1118.9	1104.6	1082.2	1053.7	1026.8	1002.3	984.8	977.2	977.4
49°	1106.5	1110.9	1104.3	1089.2	1067.4	1039.0	1011.6	987.6	970.4	962.0	962.0
49.5°	1091.7	1095.7	1090.8	1075.1	1052.3	1024.1	997.1	972.7	955.3	947.3	947.7
50°	1077.0	1081.5	1075.6	1060.8	1037.4	1009.1	982.5	957.9	941.3	932.3	932.7
50.5°	1061.9	1066.5	1060.9	1046.3	1023.0	994.5	967.5	943.0	925.8	917.9	917.7
51°	1047.4	1051.8	1045.7	1030.6	1008.4	979.7	952.8	928.8	912.1	903.1	902.7
51.5°	1032.4	1037.0	1031.0	1016.3	993.6	965.0	937.7	914.0	896.8	889.7	888.9
52°	1017.9	1022.4	1016.7	1001.3	978.6	950.6	923.5	899.9	882.8	874.2	874.5
52.5°	1002.6	1006.9	1000.9	986.4	963.6	935.3	908.7	885.3	868.8	860.5	860.3
53°	987.7	992.2	986.5	971.3	948.7	920.6	894.0	870.8	854.5	845.7	845.4
53.5°	972.7	976.9	971.2	956.5	933.7	906.0	879.6	856.6	839.2	832.1	831.1
54°	957.7	961.7	956.4	941.9	919.1	891.2	865.2	842.1	825.6	817.3	817.6
54.5°	942.4	947.0	941.1	926.8	904.7	876.3	850.1	827.6	811.1	803.3	803.3
55°	927.0	931.9	926.5	911.8	889.3	861.5	835.7	813.3	797.4	790.4	788.8
55.5°	912.2	916.6	911.0	897.2	875.1	847.4	821.4	798.8	783.0	775.8	774.6
56°	896.7	901.2	896.3	882.0	860.3	833.3	807.6	784.7	769.4	761.7	761.2
56.5°	881.7	886.4	881.1	867.1	845.6	818.5	793.0	771.0	755.7	748.1	747.6
57°	867.0	870.9	865.7	851.9	830.3	803.9	778.7	757.1	741.5	734.6	733.8
57.5°	851.2	856.3	850.1	837.3	816.1	789.8	764.6	743.0	728.2	720.8	719.9
58°	835.7	840.4	835.9	821.6	800.5	775.4	750.8	729.6	714.6	706.8	707.0
58.5°	820.8	825.3	820.2	807.2	786.2	760.6	736.4	715.5	701.1	693.7	693.2
59°	805.2	810.5	805.1	792.2	771.7	746.4	722.4	701.6	688.1	681.0	679.8
59.5°	790.0	794.5	789.9	777.4	757.1	732.2	708.7	688.8	674.8	668.3	665.9
60°	774.4	779.3	775.1	762.2	742.2	718.0	694.7	675.5	661.7	654.9	652.8
60.5°	759.2	763.6	759.7	747.5	728.5	703.9	681.7	662.6	648.3	641.5	639.7
61°	743.8	748.0	744.4	732.7	714.0	690.2	664.4	649.0	635.0	628.1	626.6
61.5°	728.6	733.5	728.9	717.0	698.9	675.8	650.5	635.3	621.7	614.7	613.5
62°	713.1	718.2	714.5	702.7	683.9	661.4	637.8	621.9	608.3	601.3	600.4
62.5°	697.7	702.4	699.3	688.2	670.0	647.5	625.1	608.5	595.0	588.3	587.3
63°	682.3	687.3	683.9	673.3	655.6	633.6	612.4	595.1	582.4	575.9	574.8
63.5°	667.1	671.5	668.7	657.9	641.0	619.8	599.8	582.2	569.9	563.5	562.5
64°	651.5	656.0	653.0	644.7	626.5	605.9	586.1	569.7	557.5	551.1	549.9
64.5°	635.8	640.5	637.8	639.8	612.4	592.1	573.3	556.8	545.0	538.6	537.2
65°	620.1	624.9	622.7	622.0	599.1	578.2	560.3	544.2	532.6	526.7	525.1
65.5°	604.4	609.4	607.5	604.4	584.7	564.5	547.0	531.6	520.4	514.1	512.7
66°	588.6	593.8	592.4	586.7	570.2	551.2	534.1	519.1	508.4	502.1	500.9



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	542.8	547.7	547.2	540.3	528.0	511.7	496.1	482.8	472.4	466.5	464.9
68°	527.8	532.7	532.0	526.0	514.1	498.5	483.4	470.5	460.8	455.0	453.4
68.5°	512.4	517.4	517.6	511.0	500.2	485.3	471.1	458.4	449.2	443.7	441.1
69°	497.0	502.3	502.7	497.5	486.6	472.1	458.8	446.6	437.0	432.0	430.1
69.5°	481.9	487.7	487.8	483.2	473.4	459.3	446.4	434.6	425.5	420.2	418.5
70°	466.5	472.3	473.2	469.1	459.8	446.6	434.2	422.7	414.2	408.7	407.0
70.5°	451.3	457.1	458.5	454.7	446.7	434.1	422.3	411.3	403.1	397.8	395.6
71°	436.4	441.8	443.9	440.9	433.0	421.4	410.1	399.8	392.0	386.8	384.7
71.5°	421.3	427.2	428.9	426.6	419.8	408.8	398.3	388.5	380.4	375.7	373.7
72°	406.5	412.2	414.7	412.5	406.5	396.3	386.2	377.0	369.4	364.4	362.5
72.5°	391.6	397.2	400.4	398.8	393.1	383.7	374.7	365.5	358.4	354.1	351.6
73°	376.4	382.5	386.3	385.4	380.5	371.3	362.8	354.4	347.6	343.1	340.5
73.5°	361.2	367.9	371.7	371.7	367.4	359.8	351.3	343.3	336.7	332.4	330.0
74°	346.8	352.9	357.5	358.3	354.6	347.5	340.0	332.3	326.3	321.8	319.3
74.5°	332.1	338.7	343.4	344.5	341.9	335.2	328.7	321.5	315.7	311.5	309.4
75°	317.6	324.2	329.4	331.1	329.2	323.5	317.4	311.0	305.3	301.2	298.7
75.5°	302.7	310.0	315.3	317.8	316.8	311.7	306.3	300.2	294.7	291.1	288.5
76°	288.4	295.4	301.6	304.9	304.0	299.9	295.3	289.7	284.7	281.0	278.1
76.5°	274.2	281.6	287.9	291.7	291.9	288.5	284.2	279.2	274.7	271.1	268.2
77°	260.1	267.2	274.3	278.7	279.9	277.2	273.6	268.7	264.5	260.9	258.1
77.5°	245.8	253.5	261.0	265.9	267.8	266.0	262.9	258.7	254.5	251.4	248.4
78°	232.2	239.8	247.5	253.5	255.9	255.0	252.4	248.7	245.2	241.9	239.0
78.5°	218.3	226.4	234.3	241.0	244.2	243.9	241.9	238.8	235.7	232.3	229.5
79°	204.6	212.9	221.6	228.7	232.5	232.9	231.8	229.0	226.1	223.0	220.1
79.5°	191.2	199.3	208.7	216.5	221.2	222.3	221.9	219.5	216.9	214.0	211.0
80°	178.6	186.4	195.9	204.6	210.0	211.8	211.8	210.0	207.7	205.1	202.0
80.5°	165.5	173.7	183.8	192.9	198.9	201.5	202.0	200.8	198.9	196.0	193.2
81°	152.8	161.3	171.6	181.3	188.1	191.4	192.7	191.8	190.1	187.4	184.6
81.5°	140.4	148.9	159.8	169.9	177.5	181.3	183.4	183.1	181.7	179.3	176.1
82°	128.3	136.7	148.0	158.9	167.0	171.8	174.2	174.4	173.3	170.8	167.9
82.5°	115.9	125.0	136.9	148.1	156.8	162.4	165.2	165.8	164.9	162.6	159.5
83°	104.9	113.7	125.6	137.6	146.9	153.1	156.6	157.4	156.8	155.0	151.8
83.5°	93.9	102.7	114.8	127.4	137.4	143.9	148.1	149.5	149.3	147.1	144.1
84°	83.4	92.2	104.4	117.4	128.0	135.3	139.9	141.7	141.4	139.7	136.7
84.5°	73.0	81.8	94.6	107.7	118.9	126.8	131.6	133.9	134.0	132.3	129.4
85°	63.5	72.0	84.9	98.5	110.3	118.6	123.8	126.4	126.8	125.3	122.3
85.5°	55.2	63.2	75.9	89.8	101.8	110.7	116.3	119.2	119.7	118.2	115.4
86°	46.9	55.1	67.0	81.4	93.9	103.1	109.1	112.2	112.9	111.6	108.6
86.5°	38.7	47.1	59.9	73.3	86.1	95.8	102.0	105.5	106.4	105.2	102.3
87°	30.5	39.1	52.9	65.2	78.8	88.6	95.3	99.1	100.1	99.2	96.1
87.5°	23.4	31.1	45.8	59.1	71.7	81.9	88.8	92.7	93.9	93.0	90.2
88°	16.9	24.5	38.8	52.9	64.9	75.5	82.6	86.6	88.1	87.2	84.4
88.5°	11.4	18.8	31.8	46.8	59.5	69.2	76.5	80.9	82.4	81.6	78.9



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	3.6	6.6	17.5	30.7	43.4	54.0	61.7	65.3	67.1	66.3	64.4
90.5°	2.0	5.4	14.1	26.5	38.7	49.2	57.1	61.2	63.0	62.3	60.3
91°	0.4	4.2	11.4	22.7	34.5	44.5	52.5	57.0	58.9	58.4	56.2
91.5°	0.3	3.0	9.2	19.6	30.7	40.4	47.9	52.8	54.9	54.5	52.1
92°	0.3	1.8	7.5	16.9	27.3	36.6	43.8	48.6	50.8	50.5	48.0
92.5°	0.2	1.4	6.7	14.6	24.3	33.2	40.1	44.7	46.8	46.6	44.5
93°	0.2	1.2	5.9	12.6	21.6	30.1	36.8	41.3	43.4	43.3	41.2
93.5°	0.2	0.9	5.1	11.0	19.2	27.2	33.8	38.1	40.2	40.0	38.2
94°	0.3	0.8	4.3	9.7	17.2	24.7	31.0	35.1	37.2	37.2	35.4
94.5°	0.3	0.7	3.9	8.7	15.4	22.4	28.3	32.4	34.5	34.5	32.8
95°	0.4	0.6	3.5	8.0	13.9	20.4	26.0	30.0	32.0	32.0	30.3
95.5°	0.5	0.6	3.2	7.4	12.7	18.6	23.9	27.6	29.6	29.7	28.2
96°	0.6	0.7	2.8	7.0	11.7	17.1	22.0	25.6	27.5	27.6	26.1
96.5°	0.6	0.7	2.5	6.5	10.9	15.8	20.4	23.7	25.6	25.7	24.4
97°	0.7	0.8	2.3	6.0	10.3	14.7	18.9	22.1	23.9	24.0	22.8
97.5°	0.8	0.8	2.1	5.6	9.8	13.8	17.7	20.6	22.3	22.5	21.4
98°	0.8	0.8	1.9	5.2	9.3	13.0	16.6	19.4	21.0	21.2	20.1
98.5°	0.9	0.9	1.8	4.9	8.7	12.4	15.7	18.3	19.7	20.0	19.1
99°	1.0	0.9	1.6	4.5	8.2	11.9	14.9	17.3	18.7	18.9	18.1
99.5°	1.1	1.0	1.5	4.2	7.8	11.4	14.3	16.5	17.8	18.1	17.3
100°	1.2	1.1	1.4	3.9	7.4	10.8	13.7	15.8	17.1	17.3	16.6
100.5°	1.3	1.2	1.4	3.7	7.0	10.3	13.1	15.2	16.4	16.7	16.0
101°	1.4	1.3	1.4	3.4	6.6	9.8	12.6	14.7	15.8	16.1	15.4
101.5°	1.6	1.3	1.4	3.2	6.2	9.3	12.0	14.1	15.3	15.5	14.9
102°	1.7	1.4	1.4	2.9	5.9	8.9	11.5	13.6	14.7	15.0	14.4
102.5°	1.8	1.5	1.4	2.7	5.5	8.5	11.0	13.0	14.2	14.4	13.9
103°	1.8	1.5	1.4	2.5	5.2	8.0	10.5	12.4	13.6	13.9	13.3
103.5°	1.9	1.6	1.3	2.3	4.8	7.6	10.1	12.0	13.1	13.4	12.8
104°	1.9	1.6	1.3	2.2	4.5	7.2	9.6	11.5	12.6	12.8	12.4
104.5°	2.0	1.7	1.3	2.1	4.2	6.9	9.2	11.0	12.1	12.4	11.9
105°	2.0	1.9	1.3	1.9	4.0	6.5	8.8	10.6	11.7	11.9	11.4
105.5°	2.0	2.2	1.3	1.9	3.7	6.2	8.4	10.1	11.2	11.5	11.0
106°	2.0	2.1	1.3	1.8	3.5	5.8	8.0	9.7	10.8	11.1	10.6
106.5°	1.9	2.0	1.3	1.8	3.3	5.5	7.6	9.3	10.4	10.7	10.2
107°	1.9	1.9	1.4	1.7	3.1	5.2	7.3	8.9	10.0	10.3	9.8
107.5°	2.0	1.9	1.4	1.7	2.9	4.9	6.9	8.5	9.6	9.9	9.4
108°	2.0	1.9	1.4	1.6	2.7	4.7	6.6	8.1	9.2	9.5	9.1
108.5°	2.0	2.0	1.5	1.6	2.6	4.4	6.3	7.8	8.8	9.1	8.7
109°	2.0	2.1	1.5	1.5	2.5	4.2	5.9	7.4	8.5	8.8	8.4
109.5°	2.0	2.1	1.5	1.5	2.3	3.9	5.6	7.1	8.1	8.4	8.1
110°	2.0	2.1	1.6	1.5	2.2	3.7	5.3	6.8	7.8	8.1	7.8
110.5°	2.0	2.1	1.6	1.5	2.2	3.5	5.0	6.5	7.5	7.8	7.5
111°	2.0	2.1	1.6	1.5	2.1	3.3	4.8	6.2	7.2	7.4	7.2



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	2.1	2.0	1.8	1.6	1.9	2.8	4.1	5.4	6.2	6.5	6.3
113°	2.1	2.0	1.9	1.6	1.9	2.7	3.9	5.1	5.9	6.2	6.0
113.5°	2.1	2.0	1.9	1.7	1.9	2.6	3.7	4.8	5.7	5.9	5.7
114°	2.2	2.1	1.9	1.7	1.8	2.5	3.5	4.6	5.4	5.7	5.5
114.5°	2.2	2.1	2.0	1.7	1.8	2.5	3.3	4.4	5.2	5.4	5.3
115°	2.2	2.1	2.1	1.8	1.7	2.4	3.2	4.1	4.9	5.2	5.0
115.5°	2.2	2.2	2.1	1.8	1.7	2.3	3.0	4.0	4.7	5.0	4.8
116°	2.2	2.2	2.2	1.8	1.7	2.3	2.9	3.8	4.5	4.7	4.6
116.5°	2.2	2.2	2.3	1.9	1.8	2.3	2.8	3.6	4.3	4.5	4.4
117°	2.2	2.3	2.4	1.9	1.8	2.2	2.8	3.5	4.1	4.4	4.3
117.5°	2.2	2.4	2.6	1.9	1.8	2.2	2.7	3.3	3.9	4.2	4.1
118°	2.2	2.4	2.7	1.9	1.8	2.1	2.6	3.2	3.8	4.0	4.0
118.5°	2.3	2.4	2.7	2.0	1.9	2.0	2.6	3.1	3.6	3.9	3.9
119°	2.3	2.5	2.7	2.0	1.9	2.0	2.5	3.0	3.5	3.8	3.7
119.5°	2.3	2.5	2.6	2.1	1.9	1.9	2.5	3.0	3.4	3.7	3.6
120°	2.3	2.5	2.6	2.1	2.0	2.0	2.4	2.9	3.3	3.6	3.5
120.5°	2.4	2.5	2.6	2.2	2.0	2.0	2.3	2.8	3.2	3.5	3.5
121°	2.4	2.5	2.6	2.2	2.0	2.0	2.2	2.7	3.1	3.4	3.4
121.5°	2.4	2.6	2.6	2.3	2.1	2.0	2.2	2.7	3.1	3.3	3.3
122°	2.4	2.6	2.6	2.3	2.1	2.1	2.1	2.6	3.0	3.2	3.3
122.5°	2.5	2.6	2.7	2.4	2.2	2.1	2.1	2.5	2.9	3.2	3.2
123°	2.5	2.6	2.7	2.4	2.2	2.1	2.1	2.4	2.9	3.1	3.1
123.5°	2.5	2.7	2.8	2.5	2.2	2.2	2.1	2.3	2.8	3.1	3.1
124°	2.5	2.7	2.8	2.5	2.3	2.2	2.1	2.3	2.7	3.0	3.0
124.5°	2.5	2.7	2.8	2.6	2.3	2.3	2.2	2.3	2.7	2.9	2.9
125°	2.6	2.7	2.8	2.6	2.4	2.3	2.2	2.3	2.6	2.8	2.9
125.5°	2.6	2.7	2.8	2.7	2.4	2.3	2.2	2.3	2.6	2.8	2.9
126°	2.6	2.7	2.8	2.8	2.5	2.4	2.2	2.3	2.6	2.8	2.9
126.5°	2.6	2.7	2.8	2.9	2.5	2.4	2.3	2.3	2.6	2.8	2.9
127°	2.7	2.7	2.8	3.0	2.5	2.4	2.3	2.4	2.6	2.8	2.9
127.5°	2.7	2.7	2.8	3.1	2.6	2.5	2.4	2.5	2.6	2.8	2.9
128°	2.7	2.7	2.8	3.2	2.6	2.5	2.4	2.5	2.7	2.9	3.0
128.5°	2.8	2.8	2.8	3.3	2.7	2.5	2.5	2.6	2.7	2.9	3.0
129°	2.8	2.8	2.8	3.3	2.7	2.6	2.6	2.6	2.8	3.0	3.1
129.5°	2.8	2.8	2.8	3.3	2.8	2.6	2.6	2.7	2.8	3.0	3.1
130°	2.8	2.8	2.8	3.3	2.9	2.7	2.7	2.7	2.9	3.1	3.2
130.5°	2.8	2.8	2.8	3.3	2.9	2.7	2.7	2.8	2.9	3.1	3.2
131°	2.8	2.8	2.8	3.3	3.0	2.8	2.8	2.9	3.0	3.1	3.2
131.5°	2.8	2.8	2.8	3.3	3.1	2.9	2.8	2.9	3.1	3.2	3.3
132°	2.9	2.9	2.8	3.4	3.1	2.9	2.9	3.0	3.1	3.2	3.3
132.5°	2.9	2.9	2.9	3.4	3.2	3.0	3.0	3.0	3.1	3.3	3.4
133°	2.9	2.9	2.9	3.5	3.3	3.1	3.0	3.1	3.2	3.3	3.4
133.5°	2.9	3.0	2.9	3.5	3.5	3.1	3.1	3.2	3.2	3.4	3.5



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	3.0	3.0	3.0	3.6	3.8	3.4	3.3	3.4	3.4	3.5	3.7
135.5°	2.9	3.0	3.1	3.6	3.8	3.4	3.4	3.4	3.5	3.6	3.7
136°	2.9	3.1	3.1	3.6	3.9	3.5	3.5	3.5	3.5	3.6	3.8
136.5°	2.9	3.0	3.1	3.6	3.9	3.6	3.5	3.5	3.6	3.7	3.8
137°	2.9	3.0	3.2	3.5	3.9	3.7	3.6	3.6	3.6	3.7	3.9
137.5°	2.9	3.1	3.2	3.5	3.9	3.8	3.7	3.7	3.7	3.8	4.0
138°	2.9	3.2	3.2	3.4	3.9	3.9	3.7	3.7	3.7	3.8	4.0
138.5°	2.9	3.2	3.2	3.4	3.9	4.1	3.8	3.8	3.8	3.9	4.1
139°	3.0	3.2	3.3	3.4	4.0	4.2	3.8	3.8	3.8	3.9	4.1
139.5°	3.0	3.3	3.3	3.4	4.0	4.3	3.9	3.9	3.9	4.0	4.2
140°	3.0	3.3	3.3	3.4	4.0	4.3	3.9	3.9	3.9	4.1	4.3
140.5°	3.0	3.3	3.3	3.3	4.1	4.3	4.0	4.0	4.0	4.1	4.3
141°	3.0	3.4	3.3	3.3	4.1	4.4	4.1	4.0	4.0	4.2	4.4
141.5°	3.0	3.4	3.4	3.3	4.1	4.4	4.2	4.1	4.1	4.2	4.5
142°	3.0	3.4	3.4	3.3	4.1	4.5	4.4	4.1	4.2	4.3	4.5
142.5°	3.0	3.4	3.4	3.3	4.0	4.5	4.5	4.2	4.2	4.4	4.6
143°	3.0	3.5	3.4	3.3	4.0	4.4	4.6	4.3	4.3	4.4	4.7
143.5°	3.0	3.5	3.4	3.3	4.0	4.4	4.7	4.4	4.4	4.5	4.8
144°	3.0	3.5	3.5	3.3	3.9	4.4	4.7	4.5	4.4	4.6	4.9
144.5°	3.0	3.5	3.5	3.2	3.9	4.4	4.7	4.6	4.5	4.7	4.9
145°	3.0	3.5	3.5	3.2	3.8	4.4	4.7	4.8	4.6	4.7	5.0
145.5°	3.0	3.5	3.5	3.2	3.8	4.4	4.7	4.9	4.7	4.8	5.2
146°	3.0	3.5	3.5	3.2	3.8	4.4	4.7	5.0	4.9	4.9	5.3
146.5°	3.0	3.5	3.5	3.2	3.7	4.4	4.7	5.0	5.1	5.1	5.5
147°	3.0	3.5	3.5	3.2	3.7	4.4	4.6	5.0	5.2	5.3	5.6
147.5°	3.0	3.5	3.5	3.2	3.6	4.3	4.6	4.9	5.2	5.4	5.6
148°	3.0	3.5	3.6	3.2	3.6	4.3	4.6	4.9	5.2	5.4	5.6
148.5°	3.0	3.5	3.6	3.2	3.5	4.3	4.6	4.9	5.2	5.4	5.6
149°	2.9	3.5	3.6	3.2	3.5	4.3	4.6	4.9	5.2	5.4	5.6
149.5°	2.9	3.5	3.6	3.3	3.5	4.2	4.6	4.9	5.2	5.4	5.6
150°	2.9	3.4	3.6	3.3	3.4	4.1	4.6	4.8	5.2	5.4	5.5
150.5°	2.9	3.4	3.6	3.3	3.4	4.1	4.6	4.8	5.1	5.3	5.5
151°	2.8	3.4	3.6	3.3	3.4	4.0	4.5	4.8	5.1	5.2	5.4
151.5°	2.7	3.4	3.6	3.3	3.4	3.9	4.5	4.8	5.1	5.2	5.4
152°	2.6	3.3	3.6	3.4	3.4	3.9	4.4	4.8	5.0	5.1	5.4
152.5°	2.7	3.3	3.6	3.4	3.4	3.8	4.4	4.8	5.0	5.1	5.4
153°	2.6	3.3	3.6	3.4	3.4	3.7	4.3	4.7	5.0	5.2	5.3
153.5°	2.4	3.2	3.6	3.4	3.4	3.7	4.2	4.7	4.9	5.1	5.2
154°	2.2	3.1	3.6	3.5	3.4	3.6	4.1	4.6	4.8	5.0	5.1
154.5°	2.2	3.1	3.6	3.5	3.4	3.6	4.0	4.5	4.7	4.9	5.0
155°	2.2	3.1	3.6	3.5	3.4	3.6	4.0	4.4	4.7	4.8	4.9
155.5°	2.2	3.1	3.6	3.5	3.5	3.6	3.9	4.3	4.6	4.7	4.8
156°	2.1	3.1	3.6	3.5	3.5	3.6	3.8	4.2	4.5	4.6	4.7



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	1.9	3.1	3.6	3.6	3.6	3.6	3.7	4.0	4.2	4.3	4.4
158°	2.0	3.1	3.6	3.6	3.6	3.6	3.7	3.9	4.1	4.2	4.3
158.5°	2.0	3.1	3.6	3.6	3.7	3.6	3.6	3.8	4.0	4.2	4.2
159°	2.0	3.0	3.6	3.6	3.7	3.7	3.7	3.8	3.9	4.1	4.1
159.5°	2.0	3.0	3.6	3.6	3.7	3.7	3.7	3.7	3.9	4.0	4.0
160°	2.0	3.0	3.5	3.6	3.7	3.7	3.7	3.7	3.8	3.9	4.0
160.5°	2.0	3.0	3.5	3.7	3.8	3.8	3.7	3.7	3.8	3.9	3.9
161°	2.0	3.0	3.5	3.7	3.8	3.8	3.7	3.7	3.8	3.8	3.9
161.5°	2.0	2.9	3.5	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.9
162°	2.0	2.9	3.5	3.7	3.8	3.9	3.8	3.8	3.8	3.8	3.9
162.5°	2.0	2.8	3.4	3.7	3.8	3.9	3.8	3.8	3.8	3.8	3.9
163°	2.1	2.8	3.4	3.7	3.9	3.9	3.9	3.8	3.8	3.8	3.9
163.5°	2.1	2.7	3.4	3.7	3.9	3.9	3.9	3.9	3.8	3.9	3.9
164°	2.1	2.6	3.4	3.6	3.9	4.0	3.9	3.9	3.9	3.9	3.9
164.5°	2.1	2.5	3.4	3.6	3.9	4.0	4.0	3.9	3.9	3.9	4.0
165°	2.1	2.5	3.4	3.6	3.9	4.0	4.0	4.0	3.9	3.9	4.0
165.5°	2.1	2.5	3.3	3.6	3.9	4.0	4.0	4.0	4.0	4.0	4.0
166°	2.1	2.5	3.4	3.5	3.9	4.0	4.0	4.0	4.0	4.0	4.0
166.5°	2.1	2.5	3.5	3.5	3.9	4.0	4.0	4.1	4.0	4.0	4.1
167°	2.2	2.5	3.3	3.5	3.9	4.0	4.1	4.1	4.1	4.0	4.1
167.5°	2.2	2.6	3.1	3.5	3.8	4.0	4.1	4.1	4.1	4.1	4.1
168°	2.1	2.7	3.2	3.3	3.8	4.0	4.1	4.1	4.1	4.1	4.2
168.5°	2.2	2.5	3.3	3.2	3.8	4.0	4.1	4.2	4.2	4.1	4.2
169°	2.2	2.3	3.1	3.4	3.7	4.0	4.1	4.2	4.2	4.2	4.2
169.5°	2.3	2.5	2.8	3.5	3.4	3.9	4.1	4.2	4.2	4.2	4.2
170°	2.3	2.8	2.9	3.3	3.4	3.8	4.1	4.2	4.2	4.2	4.2
170.5°	2.6	2.7	3.2	3.2	3.7	3.9	4.1	4.2	4.2	4.2	4.2
171°	3.0	2.8	3.2	3.3	3.6	3.8	4.0	4.1	4.2	4.2	4.2
171.5°	3.0	3.1	3.0	3.3	3.2	3.4	3.9	4.1	4.1	4.2	4.2
172°	3.0	3.1	3.1	3.2	3.3	3.3	3.8	4.1	4.1	4.1	4.1
172.5°	3.2	3.2	3.2	3.1	3.4	3.6	3.8	4.0	4.0	4.0	4.1
173°	3.2	3.2	3.2	3.2	3.2	3.6	3.8	3.9	4.0	4.0	4.0
173.5°	3.2	3.2	3.3	3.2	3.3	3.3	3.8	3.9	3.9	3.9	3.9
174°	3.3	3.3	3.4	3.1	3.3	3.5	3.6	3.8	3.9	3.9	3.9
174.5°	3.4	3.4	3.5	3.3	3.1	3.3	3.4	3.7	3.9	3.8	3.9
175°	3.5	3.5	3.5	3.4	3.1	3.2	3.5	3.7	3.8	3.8	3.8
175.5°	3.5	3.5	3.5	3.4	3.2	3.2	3.5	3.8	3.8	3.8	3.7
176°	3.5	3.5	3.5	3.4	3.1	3.0	3.2	3.7	3.8	3.8	3.7
176.5°	3.5	3.5	3.6	3.5	3.3	3.1	3.3	3.6	3.7	3.8	3.7
177°	3.5	3.5	3.6	3.6	3.3	3.1	3.3	3.5	3.6	3.7	3.7
177.5°	3.5	3.6	3.6	3.5	3.2	3.1	3.2	3.4	3.6	3.7	3.6
178°	3.5	3.6	3.5	3.4	3.2	3.1	3.1	3.2	3.5	3.6	3.4
178.5°	3.6	3.6	3.5	3.3	3.1	2.9	2.9	3.2	3.4	3.6	3.4



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
0.5°	1894.0	1893.9	1893.8	1893.6	1893.4	1893.2	1893.0	1892.8	1892.8	1892.8	1892.8
1°	1894.0	1894.2	1894.4	1894.6	1894.4	1894.0	1893.5	1893.0	1892.6	1892.4	1892.3
1.5°	1894.5	1894.3	1893.8	1892.9	1892.3	1892.3	1892.3	1892.1	1891.6	1891.3	1891.3
2°	1894.4	1893.0	1891.4	1891.4	1891.3	1890.7	1890.4	1890.5	1890.1	1890.0	1889.9
2.5°	1892.9	1892.7	1892.9	1891.7	1891.6	1891.2	1890.1	1889.9	1889.5	1889.2	1888.8
3°	1892.2	1891.7	1891.4	1890.5	1890.5	1890.1	1889.7	1889.1	1887.6	1886.3	1886.7
3.5°	1890.7	1890.2	1890.2	1890.3	1889.4	1888.0	1887.7	1888.0	1885.7	1884.9	1884.6
4°	1890.2	1889.4	1888.6	1888.7	1888.3	1887.4	1886.1	1886.5	1885.2	1883.7	1882.4
4.5°	1886.8	1887.9	1886.0	1887.2	1887.3	1885.9	1884.4	1883.5	1882.9	1881.6	1880.6
5°	1886.0	1886.0	1885.6	1884.7	1885.1	1884.4	1883.1	1881.9	1881.2	1880.0	1877.7
5.5°	1884.9	1884.1	1883.8	1882.7	1883.1	1881.8	1881.5	1880.2	1879.5	1878.0	1875.4
6°	1882.8	1881.9	1881.0	1880.7	1880.4	1879.7	1879.3	1877.8	1876.7	1875.8	1872.4
6.5°	1880.1	1879.4	1878.9	1878.2	1877.7	1878.4	1877.2	1875.5	1873.4	1873.2	1869.8
7°	1877.7	1876.5	1877.1	1875.9	1875.5	1875.7	1874.8	1872.4	1870.4	1869.6	1867.3
7.5°	1874.6	1873.8	1874.0	1874.0	1872.5	1872.7	1871.5	1870.4	1867.3	1866.9	1864.8
8°	1871.6	1871.2	1870.7	1870.8	1870.2	1870.3	1867.9	1866.6	1864.6	1863.8	1860.7
8.5°	1867.8	1867.9	1867.3	1867.0	1867.5	1866.4	1866.2	1863.7	1862.4	1860.1	1857.4
9°	1864.1	1864.5	1864.0	1864.0	1864.5	1863.0	1862.4	1861.1	1858.1	1856.3	1853.8
9.5°	1861.0	1861.1	1860.1	1860.3	1860.4	1860.1	1858.3	1856.8	1853.8	1852.3	1849.2
10°	1856.8	1857.0	1856.1	1857.2	1856.7	1855.1	1855.2	1853.3	1850.4	1848.5	1845.1
10.5°	1852.6	1853.1	1851.3	1853.3	1852.7	1851.7	1851.8	1849.7	1847.0	1843.7	1841.2
11°	1847.5	1849.0	1848.2	1849.7	1849.0	1848.4	1847.8	1845.8	1842.5	1839.0	1836.2
11.5°	1842.7	1844.4	1843.3	1844.7	1844.6	1844.8	1843.3	1840.9	1837.5	1835.1	1831.2
12°	1838.0	1839.0	1838.7	1839.6	1840.7	1839.7	1838.8	1836.5	1833.6	1830.9	1826.4
12.5°	1833.1	1834.4	1834.2	1834.6	1836.1	1835.1	1834.1	1832.2	1829.4	1825.2	1822.0
13°	1827.9	1829.1	1828.5	1829.2	1830.6	1830.0	1829.8	1827.6	1825.0	1820.0	1816.9
13.5°	1821.9	1822.7	1822.8	1824.4	1825.3	1825.0	1824.8	1822.6	1819.0	1814.6	1810.5
14°	1815.6	1817.0	1818.0	1819.4	1820.3	1820.0	1819.6	1818.1	1813.6	1809.3	1804.8
14.5°	1809.4	1811.0	1812.2	1813.5	1815.1	1814.9	1814.4	1812.4	1809.1	1803.4	1798.8
15°	1803.1	1805.5	1806.1	1807.8	1810.1	1809.2	1809.2	1806.4	1803.6	1796.9	1792.8
15.5°	1796.5	1799.7	1800.5	1802.3	1804.5	1803.1	1803.8	1800.7	1797.2	1791.3	1786.7
16°	1789.3	1792.5	1793.9	1795.7	1797.9	1797.7	1797.7	1795.4	1791.1	1786.1	1780.7
16.5°	1782.6	1785.9	1787.3	1789.3	1791.4	1791.9	1791.3	1789.9	1785.6	1779.8	1773.7
17°	1775.3	1778.4	1780.2	1782.5	1785.4	1785.3	1785.2	1783.7	1779.2	1773.0	1766.3
17.5°	1767.9	1771.7	1773.6	1775.8	1779.4	1779.4	1780.1	1777.1	1772.5	1766.5	1759.5
18°	1760.6	1763.5	1766.7	1769.8	1772.3	1772.4	1772.9	1770.0	1765.4	1759.6	1752.1
18.5°	1752.4	1755.2	1759.6	1762.4	1765.5	1765.3	1765.3	1763.7	1758.7	1751.9	1744.2
19°	1743.9	1747.1	1751.5	1754.3	1758.4	1758.9	1758.9	1756.9	1752.4	1744.5	1737.1
19.5°	1735.4	1739.2	1743.5	1747.3	1750.8	1751.4	1751.9	1749.7	1745.0	1737.3	1729.1
20°	1727.9	1731.8	1735.8	1739.7	1743.2	1744.6	1744.5	1742.7	1737.7	1729.7	1721.2
20.5°	1719.1	1723.0	1727.9	1731.3	1736.0	1736.8	1736.9	1735.5	1730.3	1722.1	1713.1
21°	1709.9	1715.1	1718.9	1723.2	1727.7	1729.7	1729.6	1727.5	1722.5	1713.7	1704.9



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1681.8	1686.4	1692.5	1698.6	1703.2	1705.8	1705.8	1703.1	1698.1	1688.5	1679.5
23°	1672.0	1677.2	1683.7	1689.5	1694.6	1697.1	1697.3	1694.6	1689.8	1680.5	1669.8
23.5°	1662.1	1667.5	1674.1	1679.8	1686.4	1689.2	1689.4	1686.7	1681.1	1672.2	1660.9
24°	1651.5	1658.2	1664.1	1670.9	1677.0	1680.1	1680.6	1678.4	1672.7	1663.2	1651.7
24.5°	1641.2	1647.7	1654.7	1661.4	1667.8	1671.4	1672.4	1669.7	1663.7	1653.9	1642.2
25°	1631.2	1637.3	1645.1	1651.9	1658.4	1662.5	1663.8	1660.8	1654.7	1644.2	1632.3
25.5°	1620.3	1627.3	1634.7	1641.8	1648.8	1653.2	1654.2	1651.5	1645.4	1634.9	1622.9
26°	1609.5	1616.7	1624.6	1631.6	1639.5	1643.5	1644.5	1642.8	1636.3	1625.2	1612.7
26.5°	1598.5	1605.4	1613.8	1621.5	1630.2	1634.6	1635.3	1633.2	1626.3	1615.7	1602.6
27°	1586.9	1594.8	1603.1	1611.5	1619.5	1624.5	1625.6	1623.1	1617.0	1605.7	1592.4
27.5°	1575.7	1583.2	1592.4	1600.9	1610.0	1614.4	1615.6	1613.5	1607.1	1595.8	1581.8
28°	1563.7	1572.3	1580.8	1590.7	1599.4	1604.0	1605.5	1603.7	1597.0	1585.6	1571.0
28.5°	1552.0	1560.4	1570.2	1579.9	1588.4	1594.1	1595.7	1594.0	1586.9	1575.0	1560.9
29°	1539.9	1548.8	1559.1	1568.2	1578.5	1584.5	1585.9	1583.4	1576.6	1564.7	1549.8
29.5°	1527.3	1536.1	1547.3	1557.1	1567.6	1573.0	1575.9	1573.2	1565.7	1553.9	1538.3
30°	1515.5	1524.8	1535.8	1546.4	1556.5	1563.5	1564.5	1562.6	1554.9	1543.0	1527.4
30.5°	1503.0	1511.6	1523.9	1535.3	1545.3	1552.2	1553.5	1551.3	1545.2	1531.9	1515.9
31°	1489.4	1500.2	1512.2	1523.2	1534.4	1540.6	1543.4	1541.5	1533.8	1520.4	1504.6
31.5°	1476.4	1487.7	1499.9	1511.1	1523.4	1530.0	1532.1	1530.0	1522.2	1509.8	1493.1
32°	1463.6	1474.6	1487.3	1499.8	1511.1	1518.4	1520.5	1519.0	1511.8	1498.2	1481.2
32.5°	1450.5	1462.3	1475.4	1487.7	1499.2	1507.2	1509.6	1508.1	1499.9	1486.8	1469.6
33°	1437.3	1448.8	1462.9	1475.5	1488.3	1495.3	1498.5	1496.2	1488.8	1475.1	1457.0
33.5°	1423.8	1435.8	1449.9	1463.6	1475.9	1483.9	1486.2	1485.1	1477.1	1463.0	1444.9
34°	1410.3	1422.6	1437.1	1451.0	1463.1	1472.0	1474.7	1473.9	1465.4	1451.1	1432.8
34.5°	1397.2	1409.2	1424.1	1438.2	1451.2	1460.5	1463.2	1461.7	1453.0	1439.5	1421.9
35°	1383.2	1395.2	1410.9	1425.1	1439.3	1447.9	1451.5	1449.6	1441.5	1427.3	1409.9
35.5°	1368.5	1382.3	1397.6	1412.4	1426.7	1435.0	1439.1	1437.5	1429.5	1415.8	1396.6
36°	1354.4	1368.3	1384.3	1400.0	1413.5	1423.4	1427.0	1426.0	1417.6	1402.7	1383.3
36.5°	1340.4	1354.0	1371.0	1387.1	1401.1	1411.2	1414.8	1413.9	1404.8	1389.8	1370.0
37°	1326.2	1340.5	1357.3	1372.9	1388.9	1398.9	1402.2	1401.0	1392.0	1376.8	1356.7
37.5°	1312.2	1326.1	1343.6	1360.2	1375.5	1386.0	1389.5	1388.2	1379.2	1363.9	1343.5
38°	1297.6	1312.4	1330.2	1347.2	1362.8	1372.8	1376.7	1375.4	1366.4	1351.0	1330.4
38.5°	1283.6	1297.6	1316.6	1333.3	1348.5	1359.5	1364.0	1362.6	1353.6	1338.0	1316.7
39°	1268.9	1283.9	1302.3	1319.5	1335.6	1346.3	1350.8	1349.5	1340.4	1324.8	1303.7
39.5°	1254.7	1269.4	1288.1	1305.8	1322.2	1333.2	1337.4	1336.0	1327.0	1311.9	1289.8
40°	1239.6	1254.7	1273.8	1292.1	1308.7	1320.1	1324.5	1322.9	1314.0	1298.2	1276.4
40.5°	1224.4	1240.3	1259.1	1278.7	1294.6	1306.8	1311.1	1309.2	1300.7	1285.0	1262.9
41°	1209.4	1225.3	1245.2	1264.1	1281.3	1292.6	1297.3	1296.1	1287.2	1271.8	1249.3
41.5°	1195.2	1210.9	1230.9	1249.8	1267.0	1279.1	1284.0	1282.6	1274.1	1257.4	1234.8
42°	1180.6	1197.0	1216.5	1235.8	1253.2	1265.1	1269.8	1269.5	1259.9	1243.1	1220.9
42.5°	1165.9	1182.0	1202.1	1221.7	1238.9	1251.2	1256.3	1255.4	1246.5	1229.8	1206.5
43°	1151.0	1166.3	1187.3	1207.4	1225.1	1238.3	1242.4	1241.5	1232.3	1216.1	1193.7
43.5°	1135.5	1152.3	1172.9	1193.0	1211.3	1223.6	1228.5	1227.6	1218.1	1201.9	1179.1



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1091.2	1107.7	1128.9	1149.4	1168.7	1181.1	1185.9	1185.4	1176.3	1159.0	1135.9
45.5°	1075.7	1092.4	1114.1	1135.0	1153.4	1166.1	1172.1	1171.2	1161.4	1144.6	1121.4
46°	1060.6	1077.2	1099.2	1120.1	1138.8	1152.4	1157.2	1156.6	1146.7	1130.5	1107.0
46.5°	1045.5	1062.9	1083.8	1105.3	1123.8	1137.3	1142.6	1141.8	1132.5	1116.0	1092.7
47°	1030.8	1047.3	1069.0	1090.9	1109.9	1123.4	1128.5	1127.4	1117.8	1101.3	1077.9
47.5°	1015.7	1033.4	1054.2	1075.7	1095.3	1108.9	1113.1	1112.9	1103.5	1086.7	1063.2
48°	1000.8	1017.4	1039.2	1060.9	1080.4	1094.0	1098.6	1097.8	1088.9	1072.3	1048.6
48.5°	986.1	1002.8	1025.0	1046.4	1064.9	1078.6	1083.7	1083.4	1074.1	1057.4	1033.4
49°	970.8	988.2	1010.3	1031.3	1051.0	1064.1	1069.2	1068.8	1059.7	1042.4	1019.1
49.5°	956.5	973.4	995.2	1016.3	1035.4	1049.9	1054.8	1053.8	1044.6	1027.6	1004.6
50°	941.7	957.9	980.2	1001.0	1021.3	1034.8	1040.0	1039.1	1029.8	1013.2	989.6
50.5°	927.0	943.4	965.1	986.7	1006.1	1019.9	1024.9	1024.1	1015.2	998.0	974.4
51°	911.9	928.6	950.4	972.1	991.4	1004.6	1009.6	1009.0	999.5	983.0	959.8
51.5°	897.7	914.7	935.4	957.1	976.0	990.2	994.5	994.1	984.9	968.6	944.8
52°	883.1	899.2	920.7	941.7	961.3	974.2	979.9	979.1	969.9	952.9	929.9
52.5°	868.8	884.7	905.9	926.9	946.1	959.6	965.0	965.4	954.7	937.7	915.0
53°	854.4	870.3	890.9	912.2	931.5	944.4	950.8	950.2	939.5	922.9	900.3
53.5°	839.9	856.0	876.5	897.2	916.5	929.7	937.2	933.4	924.5	908.3	885.3
54°	825.5	840.3	862.1	882.2	901.5	914.3	921.0	918.1	908.9	892.9	870.8
54.5°	811.5	826.6	847.1	867.5	885.9	899.7	904.2	903.1	894.0	878.1	855.9
55°	796.9	812.4	832.6	852.8	871.3	884.3	888.9	887.6	878.7	863.0	840.8
55.5°	782.5	798.2	818.4	838.1	855.9	869.2	873.3	872.1	863.1	847.8	825.7
56°	768.4	783.6	803.7	823.0	841.0	853.4	858.1	858.6	848.4	832.6	811.0
56.5°	754.6	769.4	789.0	808.3	826.0	838.2	843.6	843.1	833.4	817.5	796.2
57°	741.0	755.2	774.1	793.7	811.0	823.2	830.2	825.9	818.4	802.5	781.3
57.5°	727.0	741.4	759.7	779.5	796.0	808.3	814.1	811.0	802.0	787.2	766.6
58°	713.1	727.4	745.9	764.6	780.7	793.0	796.4	795.6	786.9	772.2	751.6
58.5°	699.7	713.1	731.1	749.3	765.6	777.5	781.3	780.6	771.5	757.5	736.7
59°	686.3	699.2	716.5	734.4	751.1	762.2	766.3	765.4	756.7	742.0	721.7
59.5°	672.4	685.7	702.5	719.9	736.2	748.0	752.2	748.9	740.9	726.7	707.4
60°	659.3	672.1	688.3	705.7	722.3	732.9	736.3	733.7	725.7	711.8	692.1
60.5°	646.0	658.3	674.5	691.2	707.8	716.8	719.4	718.5	709.9	696.6	677.6
61°	632.7	644.7	660.9	676.8	691.9	700.9	703.7	703.3	694.9	681.3	663.0
61.5°	619.4	630.9	646.7	663.1	676.3	686.2	688.9	687.3	679.0	666.0	647.9
62°	606.1	617.2	632.7	648.4	666.0	672.6	674.6	672.1	663.6	651.4	633.3
62.5°	592.7	603.4	618.5	634.3	650.2	667.7	654.9	656.2	648.6	636.3	618.4
63°	579.5	590.2	604.2	619.4	635.6	649.1	639.7	641.2	633.5	621.2	604.5
63.5°	567.0	577.0	590.2	604.3	619.1	631.2	625.0	625.5	617.5	606.3	589.9
64°	554.4	564.0	576.5	589.6	602.6	613.2	610.1	609.7	602.6	591.4	575.2
64.5°	541.7	550.6	563.0	575.5	587.4	595.3	595.1	594.4	587.3	576.2	560.5
65°	529.1	537.9	549.8	561.7	572.3	579.4	579.9	579.3	572.3	561.1	546.6
65.5°	516.7	525.2	536.2	547.5	557.6	563.9	565.3	563.7	556.8	546.4	532.0
66°	504.1	512.4	522.6	533.8	543.1	550.3	550.1	548.3	541.8	531.6	517.5



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	468.1	474.4	483.8	492.6	500.1	504.2	503.7	502.5	496.3	487.3	475.2
68°	455.9	462.2	470.8	478.7	485.6	489.7	488.4	487.4	481.2	472.4	460.6
68.5°	444.1	449.8	457.4	465.1	471.3	474.7	473.9	472.0	465.8	457.6	446.9
69°	432.1	437.2	444.7	451.3	456.9	460.0	458.6	456.7	450.7	443.3	432.8
69.5°	420.1	424.8	431.9	438.1	443.2	445.6	443.7	441.1	435.9	428.9	419.2
70°	408.2	413.0	419.3	425.0	429.2	430.5	428.2	426.5	421.1	414.3	405.2
70.5°	397.0	401.1	406.9	411.6	415.1	415.7	413.4	411.4	405.8	400.1	391.3
71°	385.8	389.3	394.3	398.6	401.2	401.4	398.2	396.5	391.5	385.3	377.4
71.5°	374.2	377.7	381.8	385.3	387.4	386.8	383.5	381.5	376.5	371.2	364.1
72°	362.8	365.9	369.5	372.4	373.7	372.6	368.9	366.6	361.7	356.9	350.6
72.5°	351.8	353.9	357.3	359.3	360.4	358.5	354.2	351.6	347.0	343.0	337.3
73°	340.5	342.3	345.1	346.6	346.9	344.2	339.5	336.8	332.5	328.8	323.7
73.5°	329.6	330.9	333.1	334.0	333.5	330.2	325.1	322.3	318.2	315.0	310.6
74°	319.1	319.8	321.5	321.7	320.1	316.2	310.6	307.8	304.1	301.1	297.4
74.5°	308.2	308.7	309.6	309.1	306.8	302.4	296.2	293.0	289.7	287.1	284.8
75°	297.4	297.5	297.8	296.3	293.6	288.7	282.1	278.9	275.8	273.8	272.0
75.5°	287.0	286.6	286.2	284.3	280.8	275.0	268.1	264.7	261.5	260.5	259.5
76°	276.7	275.9	274.8	272.2	268.0	261.6	254.1	250.6	247.8	247.2	246.6
76.5°	266.4	265.0	263.5	260.0	255.4	248.3	240.1	236.5	234.2	234.2	234.6
77°	256.2	254.4	252.6	248.7	242.8	235.1	226.8	222.8	220.8	221.2	222.4
77.5°	246.2	244.1	241.5	237.0	230.4	222.0	213.1	209.3	207.2	208.7	210.5
78°	236.4	233.9	230.5	225.4	218.2	209.3	200.1	195.8	194.3	195.9	198.2
78.5°	226.8	223.8	220.0	214.3	206.4	196.7	187.1	182.7	181.3	183.6	187.0
79°	217.3	214.0	209.5	203.1	194.7	184.4	174.4	170.2	169.1	172.2	176.3
79.5°	207.9	204.1	199.2	191.9	183.2	172.2	161.5	157.8	157.0	160.8	165.5
80°	198.6	194.6	189.2	181.4	171.7	160.0	149.3	145.3	144.8	149.4	154.8
80.5°	189.6	185.2	179.3	170.6	160.6	148.7	137.4	132.9	132.7	137.9	144.1
81°	180.9	176.1	169.6	160.6	149.8	137.3	125.7	121.0	121.2	126.5	133.4
81.5°	172.2	167.1	160.1	150.5	139.4	126.3	114.2	109.0	110.1	115.7	123.3
82°	163.6	158.1	151.0	141.1	128.9	115.5	103.2	97.8	99.0	105.3	113.5
82.5°	155.3	149.6	142.0	131.3	119.0	105.1	92.7	87.4	88.5	95.4	104.3
83°	147.4	141.4	133.3	122.4	109.4	95.1	82.4	77.0	78.6	86.0	95.2
83.5°	139.5	133.4	124.9	113.6	100.1	85.6	72.7	67.3	69.4	76.8	86.6
84°	131.9	125.6	116.8	105.0	91.2	76.3	63.5	57.9	60.0	68.0	78.4
84.5°	124.6	117.9	108.8	96.6	82.7	67.6	55.6	49.0	51.5	59.7	70.7
85°	117.3	110.5	101.0	89.0	74.6	60.5	47.7	40.8	43.3	52.1	63.3
85.5°	110.3	103.4	93.8	81.5	67.1	53.4	39.9	33.1	35.9	45.0	56.5
86°	103.6	96.6	86.9	74.4	60.9	46.3	32.1	27.5	29.1	38.5	50.2
86.5°	97.3	90.2	80.2	67.8	54.7	39.3	25.4	21.9	24.6	32.5	44.2
87°	91.0	83.8	73.8	62.3	48.5	32.2	19.6	16.3	20.0	27.2	38.7
87.5°	85.0	77.7	67.9	56.8	42.4	26.7	14.6	10.7	15.5	23.8	33.7
88°	79.3	72.0	62.8	51.3	36.2	22.0	10.5	5.2	11.0	20.3	29.3
88.5°	73.8	66.3	57.9	45.7	31.4	17.9	7.3	2.4	6.7	16.9	25.4



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	59.8	52.8	43.2	31.9	20.0	9.3	3.3	0.7	2.8	8.5	17.9
90.5°	55.6	48.4	39.2	28.3	17.1	7.5	1.9	0.6	2.4	7.2	15.8
91°	51.4	44.4	35.5	25.1	14.7	6.6	1.5	0.4	2.1	6.4	13.7
91.5°	47.3	40.7	32.1	22.2	12.6	5.8	1.2	0.3	1.9	5.8	11.6
92°	43.6	37.2	29.0	19.8	11.1	5.0	1.0	0.3	1.7	5.3	10.6
92.5°	40.2	34.1	26.3	17.6	9.7	4.1	0.8	0.4	1.6	5.0	9.8
93°	37.2	31.2	23.8	15.8	8.7	3.7	0.7	0.4	1.4	4.6	9.2
93.5°	34.3	28.7	21.6	14.2	7.9	3.4	0.6	0.5	1.3	4.4	8.7
94°	31.7	26.2	19.7	12.9	7.3	3.1	0.6	0.6	1.3	4.3	8.3
94.5°	29.2	24.1	18.0	11.8	6.9	2.8	0.6	0.7	1.3	4.3	8.0
95°	27.0	22.2	16.5	11.0	6.5	2.6	0.7	0.7	1.3	4.2	7.7
95.5°	25.0	20.5	15.3	10.3	6.1	2.4	0.8	0.8	1.3	4.1	7.5
96°	23.2	19.0	14.3	9.8	5.6	2.2	0.9	0.9	1.3	4.0	7.3
96.5°	21.6	17.8	13.4	9.3	5.3	2.1	1.0	1.0	1.3	3.9	7.1
97°	20.2	16.7	12.8	8.8	5.0	2.0	1.1	1.1	1.3	3.7	7.0
97.5°	19.0	15.8	12.1	8.4	4.7	1.8	1.2	1.2	1.3	3.6	6.9
98°	17.9	15.0	11.6	8.0	4.5	1.7	1.3	1.3	1.3	3.5	6.8
98.5°	17.0	14.3	11.1	7.6	4.2	1.7	1.3	1.5	1.4	3.4	6.7
99°	16.3	13.7	10.7	7.2	4.0	1.6	1.4	1.6	1.5	3.4	6.6
99.5°	15.6	13.2	10.2	6.9	3.8	1.6	1.5	1.8	1.6	3.4	6.5
100°	15.0	12.7	9.8	6.5	3.6	1.6	1.6	1.9	1.7	3.4	6.3
100.5°	14.5	12.2	9.4	6.2	3.4	1.6	1.7	2.1	1.8	3.3	6.1
101°	14.0	11.7	9.0	5.9	3.2	1.6	1.8	2.2	1.9	3.2	6.0
101.5°	13.4	11.2	8.6	5.6	3.0	1.6	1.9	2.3	2.0	3.2	5.9
102°	12.9	10.8	8.2	5.3	2.8	1.6	1.9	2.4	2.1	3.1	5.7
102.5°	12.4	10.4	7.8	5.0	2.7	1.6	2.1	2.5	2.2	3.0	5.6
103°	12.0	10.0	7.5	4.8	2.5	1.7	2.2	2.5	2.3	2.9	5.5
103.5°	11.5	9.6	7.2	4.6	2.4	1.8	2.3	2.6	2.4	2.8	5.4
104°	11.1	9.2	6.9	4.3	2.4	1.9	2.4	2.6	2.5	2.7	5.3
104.5°	10.7	8.8	6.6	4.1	2.4	2.0	2.5	2.7	2.6	2.7	5.1
105°	10.2	8.4	6.3	3.9	2.3	2.1	2.7	2.8	2.7	2.7	5.0
105.5°	9.8	8.1	6.0	3.7	2.3	2.2	3.1	2.9	2.8	2.7	4.8
106°	9.4	7.8	5.7	3.6	2.3	2.2	3.5	3.0	2.9	2.6	4.6
106.5°	9.1	7.5	5.5	3.4	2.3	2.3	3.8	3.1	3.1	2.6	4.5
107°	8.7	7.2	5.2	3.3	2.2	2.3	4.1	3.2	3.5	2.5	4.3
107.5°	8.3	6.9	5.0	3.1	2.2	2.4	4.2	3.2	3.7	2.5	4.2
108°	8.0	6.5	4.7	3.0	2.3	2.5	4.1	3.2	3.7	2.5	4.1
108.5°	7.7	6.2	4.5	2.9	2.3	2.5	4.1	3.3	3.6	2.6	3.9
109°	7.4	6.0	4.3	2.8	2.4	2.6	4.0	3.4	3.6	2.7	3.8
109.5°	7.1	5.7	4.1	2.8	2.5	2.7	3.9	3.4	3.7	2.7	3.7
110°	6.8	5.4	4.0	2.7	2.5	2.8	3.9	3.4	3.8	2.8	3.7
110.5°	6.5	5.2	3.8	2.6	2.6	2.9	3.9	3.5	3.9	2.9	3.6
111°	6.2	4.9	3.6	2.6	2.6	3.0	3.9	3.5	4.0	3.0	3.6



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	5.5	4.3	3.2	2.5	2.7	3.5	4.0	3.6	4.3	3.2	3.4
113°	5.3	4.2	3.1	2.5	2.7	3.6	4.0	3.7	4.4	3.2	3.4
113.5°	5.0	4.0	3.1	2.6	2.8	3.8	4.1	3.7	4.4	3.3	3.2
114°	4.8	3.9	3.0	2.6	2.9	4.0	4.1	3.7	4.5	3.3	3.1
114.5°	4.7	3.8	3.0	2.6	3.0	4.2	4.2	3.7	4.5	3.4	3.0
115°	4.5	3.7	3.0	2.7	3.1	4.3	4.2	3.7	4.6	3.4	2.9
115.5°	4.3	3.6	3.0	2.7	3.2	4.5	4.3	3.7	4.6	3.5	2.9
116°	4.1	3.6	3.0	2.8	3.3	4.7	4.3	3.7	4.6	3.6	2.9
116.5°	4.0	3.5	2.9	2.9	3.4	4.8	4.4	3.7	4.7	3.7	3.0
117°	3.9	3.4	2.9	3.0	3.6	4.9	4.4	3.8	4.7	3.8	3.0
117.5°	3.8	3.4	2.8	3.1	3.7	4.9	4.5	3.8	4.8	3.8	3.1
118°	3.7	3.3	2.8	3.2	3.8	5.0	4.5	3.8	4.8	3.9	3.2
118.5°	3.6	3.2	2.8	3.3	3.9	5.1	4.6	3.8	4.9	4.0	3.2
119°	3.5	3.2	2.9	3.4	4.0	5.3	4.7	3.8	4.9	4.1	3.3
119.5°	3.4	3.1	2.9	3.4	4.0	5.5	4.7	3.8	4.9	4.2	3.4
120°	3.4	3.0	3.0	3.5	4.1	5.6	4.7	3.8	5.0	4.3	3.5
120.5°	3.3	3.0	3.0	3.6	4.2	5.7	4.8	3.8	5.0	4.5	3.6
121°	3.2	3.0	3.1	3.7	4.3	5.8	4.8	3.8	5.0	4.5	3.6
121.5°	3.2	2.9	3.2	3.7	4.4	5.9	4.8	3.8	5.0	4.5	3.7
122°	3.1	2.9	3.2	3.8	4.5	5.9	4.8	3.8	5.0	4.5	3.8
122.5°	3.0	2.9	3.3	3.9	4.6	5.8	4.7	3.8	5.1	4.5	3.8
123°	3.0	3.0	3.4	3.9	4.8	5.7	4.7	3.8	5.1	4.5	3.9
123.5°	3.0	3.0	3.5	4.0	4.8	5.6	4.7	3.8	5.1	4.6	3.9
124°	2.9	3.0	3.5	4.1	4.9	5.5	4.6	3.8	5.1	4.7	4.0
124.5°	2.9	3.1	3.6	4.2	5.0	5.4	4.6	3.8	5.1	4.7	4.0
125°	2.9	3.2	3.7	4.2	5.2	5.4	4.5	3.8	5.1	4.7	4.1
125.5°	3.0	3.2	3.7	4.3	5.4	5.3	4.5	3.8	5.1	4.8	4.1
126°	3.0	3.3	3.8	4.4	5.6	5.3	4.5	3.8	5.1	4.8	4.2
126.5°	3.0	3.3	3.9	4.5	5.7	5.2	4.4	3.8	5.1	4.9	4.2
127°	3.1	3.4	3.9	4.5	5.8	5.1	4.4	3.9	5.2	4.9	4.3
127.5°	3.1	3.5	4.0	4.6	5.8	5.1	4.4	3.9	5.2	5.0	4.3
128°	3.1	3.5	4.1	4.7	5.8	5.1	4.4	3.9	5.1	5.0	4.4
128.5°	3.2	3.6	4.1	4.8	5.9	5.1	4.4	3.9	5.1	5.0	4.5
129°	3.2	3.6	4.2	5.0	6.0	5.1	4.4	3.8	5.1	5.0	4.6
129.5°	3.3	3.7	4.3	5.1	6.1	5.1	4.4	3.9	5.1	5.0	4.8
130°	3.4	3.8	4.3	5.2	6.1	5.0	4.4	3.9	5.1	5.0	4.9
130.5°	3.4	3.8	4.4	5.3	6.2	5.0	4.3	3.9	5.1	5.1	4.9
131°	3.5	3.9	4.5	5.3	6.3	5.1	4.3	4.0	5.1	5.2	4.9
131.5°	3.5	3.9	4.6	5.4	6.3	5.0	4.3	4.0	5.1	5.2	4.8
132°	3.6	4.0	4.6	5.5	6.3	5.0	4.3	4.0	5.1	5.2	4.8
132.5°	3.6	4.1	4.7	5.7	6.3	5.0	4.3	4.0	5.1	5.2	4.8
133°	3.7	4.1	4.8	5.8	6.3	5.0	4.3	4.0	5.1	5.2	4.9
133.5°	3.7	4.2	4.9	5.9	6.3	4.9	4.3	4.0	5.1	5.2	4.8



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	3.9	4.4	5.2	6.3	6.1	4.9	4.3	4.0	5.0	5.3	4.8
135.5°	4.0	4.5	5.2	6.3	6.0	4.9	4.3	4.0	5.0	5.3	4.8
136°	4.1	4.6	5.3	6.3	6.0	4.9	4.4	4.0	5.0	5.3	4.9
136.5°	4.1	4.7	5.4	6.4	5.9	4.9	4.4	4.0	5.0	5.3	4.9
137°	4.2	4.7	5.5	6.4	5.8	4.9	4.4	4.0	5.0	5.3	4.9
137.5°	4.3	4.8	5.6	6.5	5.8	4.9	4.4	4.0	4.9	5.3	4.9
138°	4.4	4.9	5.7	6.5	5.7	4.9	4.4	4.0	4.9	5.2	5.0
138.5°	4.4	5.0	5.8	6.5	5.6	4.9	4.4	4.0	4.7	5.2	5.0
139°	4.5	5.1	5.9	6.5	5.5	4.9	4.5	4.0	4.6	5.2	4.9
139.5°	4.6	5.2	6.0	6.5	5.4	4.9	4.5	4.0	4.7	5.2	4.9
140°	4.6	5.2	6.1	6.5	5.3	4.9	4.5	4.0	4.8	5.3	5.0
140.5°	4.7	5.2	6.2	6.4	5.3	4.9	4.5	4.0	4.8	5.3	5.0
141°	4.8	5.3	6.2	6.3	5.2	4.9	4.4	3.9	4.8	5.4	5.0
141.5°	4.9	5.5	6.3	6.2	5.1	4.9	4.5	4.0	4.8	5.4	5.0
142°	4.9	5.6	6.3	6.2	5.1	4.9	4.5	3.9	4.7	5.4	5.0
142.5°	5.0	5.7	6.3	6.1	5.0	4.9	4.5	3.8	4.7	5.4	4.9
143°	5.1	5.9	6.4	6.0	5.0	4.9	4.4	3.7	4.7	5.3	4.8
143.5°	5.2	6.0	6.4	5.9	4.9	4.9	4.4	3.8	4.7	5.2	4.8
144°	5.3	6.0	6.3	5.8	4.9	4.9	4.4	3.8	4.7	5.2	4.9
144.5°	5.4	6.0	6.3	5.7	4.8	4.8	4.5	3.9	4.7	5.3	5.0
145°	5.6	6.0	6.2	5.6	4.8	4.8	4.5	3.9	4.6	5.4	5.0
145.5°	5.8	6.1	6.1	5.5	4.8	4.8	4.5	3.9	4.6	5.4	4.9
146°	5.8	6.1	6.1	5.4	4.8	4.8	4.5	3.8	4.5	5.4	4.9
146.5°	5.8	6.0	6.0	5.3	4.7	4.8	4.5	3.8	4.5	5.4	5.0
147°	5.8	6.0	5.9	5.1	4.7	4.8	4.4	3.8	4.4	5.4	5.1
147.5°	5.8	5.9	5.8	5.0	4.7	4.8	4.3	3.8	4.5	5.4	5.2
148°	5.8	5.9	5.7	4.9	4.6	4.6	4.2	3.9	4.5	5.3	5.2
148.5°	5.8	5.9	5.6	4.9	4.6	4.5	4.3	3.9	4.4	5.3	5.2
149°	5.7	5.8	5.5	4.8	4.6	4.6	4.4	3.9	4.4	5.3	5.2
149.5°	5.7	5.7	5.3	4.7	4.6	4.7	4.4	3.9	4.4	5.3	5.2
150°	5.7	5.6	5.2	4.6	4.5	4.6	4.3	3.9	4.4	5.2	5.2
150.5°	5.6	5.5	5.1	4.6	4.5	4.6	4.3	3.9	4.4	5.2	5.2
151°	5.6	5.4	4.9	4.5	4.4	4.5	4.3	3.9	4.3	5.2	5.1
151.5°	5.6	5.3	4.8	4.5	4.4	4.6	4.2	3.9	4.3	5.1	5.0
152°	5.5	5.2	4.7	4.4	4.5	4.6	4.2	3.9	4.2	5.0	5.2
152.5°	5.4	5.1	4.6	4.4	4.5	4.5	4.2	3.9	4.0	4.9	5.3
153°	5.3	5.0	4.5	4.3	4.5	4.5	4.2	3.8	3.8	4.9	5.3
153.5°	5.1	4.8	4.5	4.3	4.5	4.5	4.1	3.7	3.7	4.8	5.3
154°	5.0	4.7	4.4	4.3	4.5	4.5	4.1	3.7	3.7	4.7	5.3
154.5°	4.9	4.6	4.3	4.3	4.5	4.4	4.1	3.7	3.7	4.5	5.2
155°	4.8	4.5	4.2	4.3	4.4	4.3	4.1	3.6	3.6	4.3	4.9
155.5°	4.7	4.4	4.2	4.2	4.3	4.1	4.0	3.5	3.5	4.1	4.7
156°	4.6	4.3	4.1	4.3	4.3	4.1	4.0	3.4	3.5	4.0	4.5



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	4.3	4.1	4.1	4.2	4.1	4.0	3.4	3.3	3.5	3.9	4.5
158°	4.2	4.1	4.1	4.2	4.3	4.0	3.3	3.3	3.5	3.8	4.5
158.5°	4.1	4.0	4.1	4.2	4.3	4.0	3.3	3.3	3.4	3.8	4.4
159°	4.1	4.0	4.1	4.2	4.2	3.9	3.3	3.3	3.4	3.8	4.3
159.5°	4.0	4.0	4.1	4.1	4.1	3.9	3.2	3.3	3.4	3.7	4.2
160°	4.0	4.0	4.1	4.1	4.0	3.9	3.2	3.3	3.4	3.7	4.1
160.5°	4.0	4.0	4.1	4.0	4.0	3.9	3.2	3.3	3.4	3.7	4.1
161°	3.9	4.0	4.1	4.1	4.1	3.8	3.2	3.3	3.4	3.6	4.0
161.5°	3.9	4.0	4.1	4.2	4.2	3.6	3.2	3.2	3.4	3.6	4.0
162°	3.9	4.0	4.1	4.2	4.1	3.3	3.2	3.2	3.3	3.5	3.9
162.5°	4.0	4.0	4.2	4.3	4.0	3.3	3.2	3.2	3.3	3.5	3.9
163°	4.0	4.1	4.2	4.2	3.9	3.3	3.2	3.2	3.3	3.5	3.8
163.5°	4.0	4.1	4.2	4.2	3.6	3.2	3.2	3.2	3.3	3.5	3.8
164°	4.0	4.1	4.2	4.1	3.4	3.2	3.2	3.2	3.3	3.4	3.8
164.5°	4.0	4.1	4.2	4.0	3.4	3.2	3.2	3.2	3.3	3.4	3.7
165°	4.1	4.1	4.3	4.0	3.3	3.1	3.2	3.2	3.3	3.4	3.7
165.5°	4.1	4.2	4.2	3.9	3.3	3.1	3.2	3.2	3.3	3.4	3.7
166°	4.1	4.2	4.2	3.9	3.3	3.1	3.2	3.2	3.3	3.4	3.6
166.5°	4.1	4.2	4.2	3.9	3.3	3.1	3.2	3.2	3.3	3.4	3.6
167°	4.2	4.2	4.2	3.8	3.2	3.2	3.2	3.2	3.3	3.4	3.6
167.5°	4.2	4.2	4.1	3.5	3.2	3.2	3.2	3.2	3.3	3.4	3.6
168°	4.2	4.3	4.0	3.3	3.2	3.2	3.2	3.2	3.3	3.4	3.5
168.5°	4.2	4.3	4.0	3.3	3.2	3.2	3.3	3.2	3.3	3.4	3.5
169°	4.2	4.2	3.9	3.3	3.2	3.2	3.3	3.2	3.3	3.4	3.5
169.5°	4.2	4.2	3.9	3.3	3.2	3.2	3.3	3.3	3.3	3.4	3.5
170°	4.2	4.1	3.8	3.3	3.2	3.3	3.5	3.4	3.2	3.5	3.7
170.5°	4.2	4.0	3.5	3.2	3.2	3.5	3.6	3.6	3.2	3.7	4.0
171°	4.2	3.9	3.3	3.2	3.2	3.5	3.7	3.7	3.3	4.0	4.0
171.5°	4.1	3.8	3.2	3.2	3.3	3.6	3.8	3.7	3.7	3.9	3.9
172°	4.0	3.7	3.2	3.1	3.3	3.8	3.8	3.7	3.7	3.9	3.9
172.5°	4.0	3.6	3.2	3.1	3.4	3.8	3.8	3.7	3.7	3.8	3.9
173°	3.9	3.6	3.2	3.1	3.5	3.8	3.8	3.7	3.7	3.8	3.9
173.5°	3.8	3.5	3.2	3.2	3.5	3.8	3.8	3.7	3.7	3.8	3.9
174°	3.7	3.3	3.1	3.2	3.5	3.8	3.8	3.7	3.7	3.7	3.9
174.5°	3.6	3.1	3.1	3.3	3.7	3.8	3.8	3.7	3.7	3.7	3.8
175°	3.6	3.2	3.1	3.3	3.7	3.8	3.8	3.7	3.7	3.8	3.8
175.5°	3.5	3.2	3.1	3.3	3.7	3.8	3.8	3.7	3.7	3.7	3.7
176°	3.5	3.3	3.2	3.4	3.6	3.8	3.8	3.7	3.7	3.7	3.7
176.5°	3.5	3.3	3.2	3.4	3.6	3.8	3.8	3.7	3.7	3.7	3.7
177°	3.6	3.4	3.2	3.4	3.7	3.8	3.8	3.7	3.7	3.7	3.7
177.5°	3.4	3.3	3.2	3.3	3.6	3.8	3.7	3.6	3.6	3.6	3.6
178°	3.2	3.1	3.1	3.1	3.4	3.6	3.6	3.6	3.6	3.6	3.6
178.5°	3.2	3.0	3.0	3.1	3.2	3.4	3.4	3.5	3.5	3.6	3.6



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
0.5°	1892.9	1892.9	1892.9	1893.0	1893.0	1893.0	1893.1	1893.1	1893.2	1893.2	1893.2
1°	1892.3	1892.3	1892.0	1891.7	1891.3	1891.0	1891.2	1891.6	1892.0	1892.5	1892.7
1.5°	1891.3	1891.3	1891.4	1891.1	1891.0	1890.9	1891.1	1891.4	1891.7	1891.8	1892.1
2°	1889.7	1889.7	1889.5	1889.1	1888.9	1888.8	1889.0	1889.5	1890.1	1890.5	1890.6
2.5°	1888.6	1888.4	1887.6	1886.8	1886.9	1887.2	1887.2	1887.4	1888.0	1888.9	1889.3
3°	1886.8	1886.5	1885.5	1885.2	1885.5	1885.8	1885.6	1885.6	1886.2	1887.0	1887.2
3.5°	1883.9	1883.6	1883.4	1882.8	1883.0	1883.6	1883.9	1884.2	1884.7	1885.3	1886.0
4°	1882.4	1882.2	1881.4	1880.7	1881.0	1881.6	1881.9	1882.0	1882.2	1882.9	1883.6
4.5°	1879.5	1879.0	1878.9	1878.9	1878.8	1878.5	1878.7	1879.2	1879.6	1880.7	1882.2
5°	1877.1	1876.8	1875.8	1875.3	1874.8	1874.5	1875.2	1876.3	1877.4	1878.9	1880.6
5.5°	1874.7	1873.8	1873.1	1872.4	1872.1	1872.5	1872.5	1873.3	1874.8	1876.6	1878.4
6°	1871.3	1870.5	1870.0	1869.4	1869.3	1868.9	1868.9	1869.6	1871.3	1872.7	1875.1
6.5°	1868.0	1866.7	1866.1	1865.6	1865.3	1865.6	1865.6	1866.7	1868.2	1870.0	1872.5
7°	1865.3	1864.0	1862.4	1861.5	1861.8	1862.2	1862.5	1863.5	1865.3	1866.6	1870.0
7.5°	1862.2	1860.8	1858.6	1858.0	1857.3	1856.6	1857.6	1859.2	1861.0	1863.2	1866.3
8°	1857.8	1856.8	1854.8	1853.6	1852.9	1853.0	1853.6	1855.1	1857.0	1859.1	1862.6
8.5°	1853.7	1851.6	1850.5	1849.4	1848.3	1848.7	1849.1	1850.8	1853.2	1855.4	1858.9
9°	1849.0	1847.3	1846.0	1844.4	1844.1	1844.1	1844.2	1845.8	1848.7	1852.0	1856.1
9.5°	1845.2	1843.2	1840.6	1839.6	1839.1	1838.8	1839.1	1841.1	1844.0	1847.4	1851.9
10°	1842.0	1838.5	1836.1	1834.5	1834.0	1834.0	1833.8	1835.9	1839.4	1843.1	1847.3
10.5°	1836.6	1833.8	1830.8	1828.9	1828.1	1827.3	1828.6	1831.1	1834.3	1838.4	1843.5
11°	1831.3	1828.4	1825.4	1823.7	1822.7	1822.5	1822.9	1825.1	1829.0	1833.0	1838.6
11.5°	1826.0	1822.7	1819.7	1817.6	1816.8	1816.0	1817.2	1819.5	1823.5	1828.9	1833.0
12°	1821.5	1817.0	1813.7	1811.8	1810.5	1810.0	1811.6	1814.4	1818.1	1823.9	1829.3
12.5°	1816.3	1811.6	1808.1	1806.0	1804.7	1803.3	1805.2	1808.0	1812.2	1817.7	1824.6
13°	1810.6	1805.4	1801.7	1799.1	1797.0	1796.4	1798.8	1801.5	1805.5	1811.9	1818.4
13.5°	1804.0	1798.8	1795.0	1792.1	1790.0	1789.8	1791.8	1794.4	1799.3	1805.5	1813.1
14°	1798.4	1792.7	1788.5	1785.3	1783.0	1783.7	1784.4	1787.7	1793.3	1800.3	1806.4
14.5°	1792.0	1785.6	1781.8	1778.6	1775.3	1775.8	1777.9	1780.7	1786.3	1793.8	1801.0
15°	1785.5	1779.1	1775.0	1771.0	1768.7	1768.3	1770.1	1774.0	1779.0	1786.7	1794.6
15.5°	1779.3	1772.6	1767.2	1763.0	1761.3	1760.3	1762.2	1766.2	1772.3	1779.9	1788.3
16°	1772.5	1765.5	1759.5	1754.9	1752.2	1752.1	1753.9	1758.3	1764.5	1772.5	1781.1
16.5°	1765.3	1758.1	1752.0	1747.1	1744.6	1744.8	1746.4	1750.4	1757.2	1765.3	1774.1
17°	1758.2	1750.6	1744.5	1739.5	1736.8	1736.3	1738.1	1742.3	1749.3	1758.6	1767.2
17.5°	1750.7	1742.9	1736.5	1731.2	1728.2	1727.4	1729.9	1733.8	1741.0	1750.7	1760.7
18°	1743.0	1734.6	1728.0	1722.3	1719.1	1718.0	1720.0	1726.0	1733.2	1742.8	1753.4
18.5°	1735.1	1726.8	1719.0	1712.9	1710.2	1709.7	1711.7	1717.3	1725.5	1734.9	1745.6
19°	1727.8	1717.9	1710.0	1704.0	1701.8	1699.8	1701.9	1707.8	1715.8	1726.4	1737.0
19.5°	1718.7	1709.2	1701.1	1694.8	1692.2	1690.6	1693.0	1698.4	1706.8	1718.4	1729.5
20°	1710.9	1701.0	1692.3	1685.5	1681.8	1681.1	1684.2	1689.4	1698.4	1709.9	1722.5
20.5°	1702.5	1692.0	1683.2	1675.8	1671.5	1671.1	1674.2	1680.5	1689.4	1701.2	1714.3
21°	1693.5	1683.1	1673.7	1665.9	1661.3	1661.1	1664.1	1670.4	1680.2	1692.7	1705.3



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1666.5	1654.1	1643.9	1636.0	1630.2	1629.3	1632.0	1638.9	1650.1	1664.8	1678.7
23°	1657.5	1644.4	1634.0	1625.2	1619.7	1619.4	1621.5	1628.9	1640.5	1655.1	1670.3
23.5°	1647.6	1633.9	1623.1	1614.4	1609.5	1607.5	1610.4	1618.0	1630.2	1644.9	1660.7
24°	1638.1	1624.0	1612.3	1602.6	1597.9	1595.8	1598.5	1607.4	1619.3	1634.6	1650.6
24.5°	1628.1	1614.0	1601.2	1591.2	1586.5	1583.9	1588.0	1597.3	1609.4	1624.6	1641.2
25°	1619.3	1603.5	1591.3	1580.6	1575.6	1572.6	1576.5	1586.1	1598.7	1614.4	1631.0
25.5°	1607.9	1592.6	1580.2	1569.1	1563.0	1561.0	1564.7	1573.9	1587.0	1603.5	1621.5
26°	1597.3	1581.5	1568.2	1557.7	1551.7	1549.0	1553.1	1562.3	1576.6	1593.4	1611.6
26.5°	1586.9	1570.8	1556.4	1545.8	1540.0	1537.0	1540.4	1550.7	1565.0	1582.6	1600.8
27°	1576.9	1560.4	1545.3	1533.3	1527.1	1525.4	1528.6	1538.5	1553.5	1571.2	1590.2
27.5°	1565.8	1548.1	1533.4	1520.9	1513.9	1513.2	1516.6	1526.3	1541.5	1560.6	1579.2
28°	1554.2	1536.7	1521.7	1508.7	1502.2	1500.2	1504.5	1515.2	1530.4	1549.1	1569.0
28.5°	1543.6	1525.8	1509.9	1497.3	1489.7	1487.3	1491.3	1502.4	1518.5	1537.3	1557.0
29°	1532.4	1513.6	1497.6	1484.1	1476.6	1475.4	1479.5	1489.3	1505.4	1525.3	1546.1
29.5°	1521.0	1501.4	1485.1	1471.4	1464.0	1461.6	1465.1	1476.8	1493.5	1514.2	1535.5
30°	1509.3	1489.3	1472.7	1458.7	1450.6	1448.5	1453.1	1464.4	1481.4	1502.6	1524.0
30.5°	1497.4	1477.5	1460.1	1445.7	1438.1	1435.3	1439.6	1451.2	1468.5	1490.0	1512.0
31°	1485.6	1465.1	1447.4	1432.9	1424.9	1422.0	1426.9	1438.7	1456.0	1477.6	1500.8
31.5°	1473.4	1452.7	1434.7	1419.7	1411.1	1408.2	1413.3	1425.8	1443.7	1465.8	1488.6
32°	1461.0	1440.5	1422.0	1405.9	1397.3	1394.5	1399.7	1412.1	1431.2	1453.5	1476.8
32.5°	1449.6	1427.9	1408.7	1392.1	1383.6	1380.7	1386.0	1398.4	1418.1	1441.3	1464.7
33°	1436.9	1414.7	1395.5	1378.3	1369.8	1367.0	1372.3	1384.8	1404.6	1428.8	1452.8
33.5°	1423.8	1401.5	1382.3	1364.4	1356.0	1353.2	1358.7	1371.1	1391.2	1415.9	1440.5
34°	1413.0	1388.4	1369.2	1351.3	1341.4	1339.2	1343.9	1357.3	1377.7	1402.9	1428.1
34.5°	1399.7	1375.4	1355.8	1338.3	1327.7	1324.7	1330.2	1344.1	1364.4	1389.8	1416.1
35°	1386.4	1362.0	1341.1	1324.2	1313.8	1310.4	1316.3	1330.5	1350.9	1376.8	1403.3
35.5°	1373.3	1348.7	1327.5	1310.3	1299.7	1296.4	1302.1	1316.7	1337.1	1363.6	1390.5
36°	1360.1	1335.5	1314.1	1295.5	1284.9	1281.8	1287.5	1301.4	1323.2	1350.6	1377.7
36.5°	1346.7	1321.7	1299.2	1281.3	1270.1	1267.6	1273.2	1287.8	1309.2	1336.3	1364.9
37°	1333.3	1307.3	1285.5	1267.3	1255.5	1252.4	1258.4	1273.9	1295.3	1322.5	1351.6
37.5°	1319.8	1293.5	1271.4	1253.0	1242.0	1238.0	1244.2	1259.0	1280.8	1308.6	1338.2
38°	1305.8	1279.4	1256.8	1237.8	1226.6	1224.1	1229.2	1245.0	1267.3	1295.0	1323.9
38.5°	1292.2	1265.8	1242.6	1223.7	1212.3	1208.4	1215.0	1230.4	1253.0	1281.4	1310.5
39°	1278.6	1252.0	1228.1	1209.0	1197.8	1194.2	1200.8	1216.2	1238.8	1267.5	1297.1
39.5°	1264.6	1238.2	1214.2	1194.4	1183.4	1179.3	1185.3	1201.2	1224.3	1253.3	1283.7
40°	1251.1	1223.6	1199.7	1180.1	1168.1	1164.6	1171.0	1186.8	1209.8	1239.2	1269.8
40.5°	1237.2	1209.4	1185.3	1165.3	1153.2	1149.8	1155.5	1171.5	1196.1	1225.1	1256.3
41°	1223.2	1195.0	1170.6	1150.1	1138.5	1134.9	1141.5	1157.5	1181.1	1211.0	1242.0
41.5°	1208.9	1180.8	1156.2	1135.9	1123.7	1120.4	1126.1	1142.9	1166.9	1196.8	1228.1
42°	1194.5	1166.2	1141.2	1121.2	1108.4	1105.1	1111.8	1127.7	1152.2	1182.1	1214.8
42.5°	1180.9	1152.3	1126.7	1106.4	1093.8	1090.5	1096.7	1113.3	1138.1	1167.5	1199.8
43°	1166.8	1137.3	1112.4	1091.5	1078.5	1076.0	1082.4	1098.8	1123.5	1153.7	1186.0
43.5°	1152.2	1123.1	1097.5	1076.4	1064.3	1060.7	1067.2	1083.5	1108.1	1139.4	1171.7



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	1108.7	1078.6	1053.0	1032.3	1020.2	1016.0	1022.2	1039.4	1063.8	1095.7	1128.9
45.5°	1094.3	1064.4	1039.0	1017.4	1005.2	1001.4	1008.1	1024.9	1049.4	1080.9	1114.2
46°	1079.7	1050.0	1023.8	1003.0	990.1	987.2	993.5	1010.4	1035.3	1066.3	1099.9
46.5°	1065.0	1035.3	1009.3	988.2	975.6	972.3	978.6	996.0	1020.8	1051.8	1085.0
47°	1050.7	1020.2	994.4	973.5	960.5	957.4	964.2	980.7	1005.8	1037.0	1071.1
47.5°	1035.7	1005.7	980.1	958.9	946.2	943.2	949.5	966.2	991.1	1022.5	1056.2
48°	1020.6	991.4	964.7	944.1	931.8	928.1	934.3	951.3	976.4	1007.6	1041.3
48.5°	1006.0	976.5	950.6	929.9	917.5	913.7	920.4	936.8	961.7	993.1	1026.3
49°	991.6	961.7	935.9	915.5	902.5	899.1	906.2	922.7	947.8	979.0	1011.7
49.5°	977.6	947.1	921.8	901.1	888.0	885.4	891.5	908.3	932.6	964.1	997.6
50°	961.6	932.5	906.8	886.3	873.7	870.6	877.7	893.5	918.7	949.2	983.1
50.5°	947.7	917.8	891.6	871.7	859.9	856.6	862.4	878.8	903.9	934.5	968.2
51°	932.7	902.8	877.8	857.7	845.3	842.9	848.7	864.8	889.0	919.9	953.8
51.5°	917.7	888.5	863.7	843.7	831.1	828.5	834.8	851.1	875.0	905.6	938.8
52°	902.7	874.4	849.4	829.6	817.1	814.3	820.7	837.2	860.9	891.7	924.3
52.5°	888.1	859.9	835.0	815.3	803.5	801.0	806.6	823.0	846.9	877.1	909.6
53°	873.6	845.4	820.3	801.0	789.3	787.1	792.8	808.8	832.4	862.4	895.1
53.5°	859.0	830.9	806.0	787.1	775.3	772.9	779.5	794.5	818.4	848.1	881.1
54°	844.5	816.6	791.8	773.3	761.6	758.5	764.9	780.3	804.0	833.6	866.3
54.5°	829.8	801.8	777.7	759.2	747.8	745.5	751.8	766.6	790.0	819.1	851.2
55°	815.1	787.1	763.8	745.6	734.0	731.7	737.7	753.0	775.9	805.2	836.6
55.5°	800.9	773.2	749.8	731.7	721.1	718.6	724.6	739.2	761.8	790.8	821.8
56°	786.0	758.8	735.6	718.2	707.4	705.2	711.1	725.3	747.7	776.6	807.6
56.5°	771.3	744.3	722.1	704.7	693.6	691.4	697.8	712.1	734.3	762.4	792.9
57°	756.9	730.4	708.0	691.1	680.5	678.6	684.5	699.0	720.2	747.9	778.5
57.5°	741.9	716.5	694.7	677.4	667.1	665.1	670.6	684.9	706.6	733.7	763.8
58°	727.7	702.2	680.7	664.1	654.5	652.2	658.0	671.6	692.7	719.5	749.5
58.5°	713.0	688.6	667.3	650.8	641.2	639.4	644.9	658.4	679.4	705.8	735.6
59°	698.7	674.6	653.5	637.8	628.0	626.2	631.8	645.3	665.8	691.9	721.1
59.5°	684.5	660.4	640.4	624.4	614.8	613.3	619.5	632.2	652.6	677.9	706.7
60°	670.0	646.9	627.2	611.2	602.6	601.0	606.3	619.0	638.9	664.1	692.0
60.5°	655.9	633.0	613.6	598.2	589.6	587.9	593.3	606.0	625.8	650.3	677.4
61°	641.3	619.3	600.2	585.4	576.8	575.4	580.5	593.2	612.3	636.6	663.7
61.5°	627.2	605.6	587.2	573.1	565.1	563.0	568.4	580.6	599.4	622.9	649.1
62°	612.7	592.0	574.4	560.0	551.9	550.8	555.8	568.1	586.1	609.5	635.0
62.5°	599.1	578.6	561.1	547.3	539.4	538.6	543.4	555.3	573.2	596.0	621.0
63°	585.1	565.2	547.8	534.6	527.3	526.2	531.0	542.6	560.1	582.4	607.0
63.5°	571.3	551.7	534.9	522.2	515.3	514.1	519.0	530.1	547.3	569.2	593.3
64°	557.0	538.3	522.8	510.0	503.2	502.1	506.6	517.9	534.3	555.9	579.1
64.5°	543.2	525.1	509.8	497.5	490.8	490.2	494.8	505.5	521.6	542.4	565.4
65°	529.5	512.0	497.0	485.5	479.2	478.2	483.0	493.4	509.2	529.3	551.5
65.5°	515.7	498.9	485.0	473.5	467.2	466.4	471.1	481.3	496.9	516.1	537.8
66°	502.4	486.0	472.6	461.1	455.1	454.4	458.8	468.9	484.0	503.2	524.0



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	461.1	446.9	434.9	425.7	420.6	420.0	424.2	433.4	446.9	464.2	482.8
68°	447.7	434.3	422.8	413.8	409.3	408.9	412.9	421.8	434.5	451.5	469.8
68.5°	434.6	421.6	410.7	402.4	398.0	397.3	401.5	410.3	422.7	438.9	456.7
69°	421.3	408.9	398.9	390.9	386.6	386.4	390.1	398.7	410.7	426.2	443.5
69.5°	408.1	396.6	386.8	379.3	375.1	375.1	378.8	387.1	398.7	413.5	429.9
70°	395.2	384.2	375.2	367.8	364.3	364.5	367.9	375.6	386.8	400.9	416.6
70.5°	381.7	371.9	363.3	356.9	353.5	353.6	357.1	364.3	374.9	388.7	403.2
71°	369.0	359.6	352.0	345.8	342.7	342.7	346.1	353.2	363.5	376.3	390.7
71.5°	356.3	347.6	340.4	334.7	331.7	331.9	335.4	342.0	352.0	364.2	377.5
72°	343.6	335.7	329.0	323.8	321.1	321.7	324.8	331.2	340.5	352.2	364.9
72.5°	330.8	323.7	317.7	313.0	310.7	311.0	314.3	320.4	329.1	340.1	351.9
73°	318.4	312.0	306.4	302.2	300.0	300.6	303.6	309.6	317.5	328.2	339.9
73.5°	305.9	300.3	295.2	291.6	289.9	290.2	293.4	298.7	306.6	316.3	327.0
74°	293.5	288.6	284.5	281.3	279.5	280.6	283.1	288.3	295.6	304.8	314.4
74.5°	281.4	277.3	273.5	271.1	269.6	270.5	273.1	278.1	284.8	293.1	301.9
75°	269.5	266.2	263.1	260.6	259.6	260.5	263.1	267.6	273.9	281.6	290.2
75.5°	257.8	255.0	252.2	250.6	249.9	250.7	253.1	257.3	263.1	270.2	278.0
76°	245.7	244.0	242.2	240.5	239.9	241.0	243.3	247.4	252.8	259.1	266.2
76.5°	234.2	233.0	231.8	230.7	230.4	231.4	233.7	237.5	242.2	247.9	254.3
77°	223.0	222.3	222.0	221.2	221.0	222.1	224.3	227.6	232.0	237.0	242.7
77.5°	211.5	211.8	211.7	211.8	212.0	213.1	215.2	218.0	222.1	226.3	230.7
78°	200.6	201.8	202.1	202.5	203.1	204.1	205.9	208.8	212.3	215.9	219.6
78.5°	190.0	191.9	192.7	193.3	194.2	195.4	197.1	199.5	202.3	205.5	208.4
79°	179.3	181.8	183.3	184.5	185.4	186.7	188.3	190.5	192.8	195.2	197.6
79.5°	169.3	172.3	174.4	175.9	177.0	178.3	180.1	181.7	183.5	185.4	186.5
80°	159.3	163.4	166.1	167.8	169.3	170.3	171.6	173.0	174.7	175.6	176.2
80.5°	149.4	154.5	157.7	159.9	161.6	162.6	163.8	164.9	166.3	166.3	166.3
81°	139.5	145.6	149.4	152.0	153.9	155.0	156.1	157.1	157.9	157.4	156.6
81.5°	130.2	136.6	141.0	144.2	146.1	147.3	148.4	149.2	149.5	148.5	146.7
82°	121.6	128.0	132.7	136.3	138.4	139.7	140.7	141.4	141.0	139.5	136.9
82.5°	112.8	120.0	125.0	128.7	131.2	132.7	133.6	133.7	132.7	130.8	127.3
83°	104.3	112.0	117.5	121.5	124.1	125.7	126.4	126.3	125.0	122.5	118.6
83.5°	96.2	104.3	110.3	114.5	117.1	118.6	119.4	119.1	117.5	114.4	109.8
84°	88.5	96.9	103.2	107.7	110.5	112.1	112.8	112.2	110.2	106.6	101.5
84.5°	81.1	90.1	96.6	101.1	104.1	105.7	106.2	105.4	103.2	99.1	93.3
85°	74.1	83.3	90.0	94.8	98.0	99.5	99.9	98.9	96.3	92.0	85.7
85.5°	67.5	76.8	83.8	88.8	91.9	93.4	93.7	92.7	89.8	85.1	78.4
86°	61.3	70.6	77.8	83.0	86.1	87.7	88.0	86.7	83.5	78.5	71.5
86.5°	55.3	64.9	72.3	77.4	80.6	82.2	82.4	80.9	77.6	72.2	64.7
87°	49.9	59.5	66.8	72.1	75.5	77.0	77.1	75.4	71.9	66.3	58.6
87.5°	44.7	54.4	61.8	67.2	70.4	72.0	71.9	70.3	66.5	60.7	52.8
88°	40.2	49.7	57.1	62.4	65.7	67.2	67.2	65.3	61.4	55.6	47.4
88.5°	35.9	45.3	52.6	58.0	61.2	62.7	62.5	60.6	56.7	50.7	42.6



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	25.6	34.1	41.0	46.1	49.4	50.7	50.4	48.3	44.1	38.1	30.1
90.5°	23.0	31.1	37.8	42.8	45.9	47.2	46.8	44.7	40.6	34.6	26.8
91°	20.7	28.4	34.8	39.7	42.7	44.0	43.6	41.4	37.3	31.4	23.9
91.5°	18.8	26.0	32.2	36.8	39.8	41.0	40.6	38.4	34.4	28.6	21.4
92°	17.6	23.9	29.8	34.2	37.1	38.3	37.8	35.6	31.7	26.1	19.2
92.5°	16.4	22.1	27.6	31.9	34.7	35.7	35.3	33.1	29.2	23.9	17.9
93°	15.3	20.5	25.8	29.8	32.4	33.4	33.0	30.9	27.1	22.0	16.6
93.5°	14.2	19.2	24.2	28.0	30.5	31.4	30.9	28.9	25.3	20.4	15.4
94°	13.0	18.2	22.9	26.4	28.8	29.7	29.2	27.1	23.7	19.1	14.1
94.5°	12.4	17.3	21.7	25.1	27.3	28.1	27.6	25.6	22.3	17.9	12.9
95°	11.9	16.6	20.7	23.9	25.9	26.7	26.1	24.3	21.1	16.9	12.2
95.5°	11.5	15.9	19.8	22.8	24.7	25.4	24.9	23.1	20.0	16.1	11.7
96°	11.1	15.4	19.0	21.8	23.6	24.3	23.8	22.0	19.1	15.5	11.3
96.5°	10.8	14.9	18.3	21.0	22.7	23.3	22.8	21.2	18.4	14.9	10.8
97°	10.6	14.5	17.7	20.2	21.8	22.4	22.0	20.4	17.8	14.3	10.4
97.5°	10.4	14.0	17.1	19.5	21.0	21.6	21.2	19.8	17.3	13.8	9.9
98°	10.2	13.6	16.6	18.9	20.4	20.9	20.6	19.2	16.7	13.2	9.5
98.5°	10.0	13.2	16.1	18.4	19.8	20.4	20.0	18.6	16.2	12.7	9.2
99°	9.9	13.0	15.8	17.9	19.2	19.8	19.3	18.0	15.6	12.3	9.0
99.5°	9.8	12.8	15.4	17.4	18.7	19.2	18.8	17.4	15.2	11.9	8.9
100°	9.6	12.6	15.1	17.0	18.2	18.7	18.2	16.9	14.7	11.5	8.8
100.5°	9.5	12.4	14.8	16.7	17.8	18.2	17.7	16.4	14.3	11.4	8.7
101°	9.4	12.2	14.6	16.3	17.4	17.8	17.3	15.9	13.8	11.2	8.6
101.5°	9.2	12.1	14.3	16.0	17.0	17.4	16.9	15.5	13.4	11.1	8.4
102°	9.0	11.9	14.1	15.7	16.7	17.0	16.5	15.2	13.2	10.9	8.3
102.5°	8.9	11.8	13.9	15.5	16.4	16.7	16.2	15.0	13.1	10.8	8.1
103°	8.7	11.6	13.6	15.2	16.1	16.4	15.9	14.8	12.9	10.7	7.9
103.5°	8.5	11.4	13.4	15.0	15.9	16.2	15.8	14.6	12.7	10.6	7.7
104°	8.3	11.2	13.3	14.8	15.6	16.0	15.5	14.4	12.6	10.4	7.5
104.5°	8.1	11.0	13.1	14.5	15.4	15.8	15.3	14.2	12.5	10.2	7.3
105°	7.9	10.7	12.8	14.3	15.2	15.6	15.1	14.0	12.3	10.0	7.1
105.5°	7.8	10.5	12.6	14.1	15.0	15.4	15.0	13.9	12.2	9.8	6.9
106°	7.6	10.3	12.4	13.9	14.8	15.2	14.8	13.7	12.0	9.6	6.7
106.5°	7.4	10.1	12.1	13.6	14.5	15.0	14.6	13.5	11.7	9.3	6.5
107°	7.3	9.9	11.9	13.4	14.3	14.7	14.3	13.3	11.5	9.0	6.3
107.5°	7.1	9.7	11.6	13.1	14.0	14.4	14.1	13.0	11.2	8.8	6.1
108°	6.9	9.4	11.4	12.9	13.8	14.2	13.8	12.8	10.9	8.5	6.0
108.5°	6.7	9.3	11.1	12.6	13.5	13.9	13.6	12.5	10.6	8.3	5.8
109°	6.5	9.1	10.9	12.3	13.2	13.6	13.3	12.1	10.3	8.1	5.7
109.5°	6.3	8.9	10.7	12.0	12.9	13.3	13.0	11.8	10.1	7.9	5.5
110°	6.2	8.6	10.4	11.8	12.6	13.0	12.7	11.5	9.8	7.7	5.4
110.5°	6.0	8.4	10.2	11.5	12.3	12.7	12.4	11.3	9.5	7.5	5.2
111°	5.8	8.2	10.0	11.2	12.0	12.4	12.1	11.0	9.3	7.3	5.1



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.2	7.5	9.4	10.5	11.2	11.5	11.2	10.2	8.6	6.8	4.6
113°	5.0	7.3	9.1	10.2	11.0	11.2	11.0	9.9	8.3	6.7	4.4
113.5°	4.8	7.1	8.9	10.0	10.7	11.0	10.7	9.7	8.1	6.5	4.3
114°	4.6	6.8	8.7	9.8	10.5	10.7	10.5	9.5	7.9	6.3	4.1
114.5°	4.5	6.6	8.5	9.6	10.2	10.5	10.2	9.2	7.7	6.2	4.0
115°	4.4	6.3	8.2	9.4	10.0	10.2	10.0	9.0	7.5	6.0	3.9
115.5°	4.3	6.1	8.0	9.2	9.8	9.9	9.7	8.7	7.3	5.7	3.8
116°	4.2	5.9	7.7	9.0	9.6	9.7	9.5	8.5	7.1	5.5	3.7
116.5°	4.1	5.6	7.5	8.7	9.4	9.5	9.2	8.2	6.9	5.3	3.7
117°	4.0	5.4	7.2	8.5	9.2	9.2	9.0	8.0	6.7	5.2	3.6
117.5°	4.0	5.2	6.9	8.3	8.9	9.0	8.7	7.8	6.5	5.0	3.5
118°	3.9	5.1	6.7	8.0	8.7	8.8	8.5	7.6	6.2	4.8	3.5
118.5°	3.8	4.9	6.4	7.8	8.4	8.6	8.3	7.4	5.9	4.7	3.3
119°	3.7	4.8	6.2	7.5	8.2	8.3	8.0	7.1	5.7	4.5	3.2
119.5°	3.6	4.7	5.9	7.2	8.0	8.1	7.8	6.8	5.5	4.4	3.0
120°	3.5	4.5	5.7	6.9	7.7	7.9	7.5	6.5	5.3	4.3	2.9
120.5°	3.3	4.4	5.5	6.6	7.4	7.6	7.2	6.3	5.1	4.1	2.9
121°	3.1	4.3	5.3	6.4	7.1	7.3	6.9	6.1	4.9	4.0	2.8
121.5°	3.1	4.2	5.2	6.1	6.8	7.0	6.7	5.8	4.8	3.9	2.7
122°	3.1	4.2	5.0	5.9	6.5	6.7	6.4	5.6	4.6	3.8	2.7
122.5°	3.2	4.1	4.9	5.7	6.3	6.5	6.2	5.5	4.5	3.7	2.8
123°	3.2	4.0	4.8	5.5	6.1	6.2	6.0	5.3	4.4	3.5	2.8
123.5°	3.3	3.8	4.7	5.4	5.9	6.0	5.8	5.1	4.2	3.3	2.9
124°	3.3	3.7	4.5	5.2	5.7	5.8	5.6	5.0	4.1	3.1	3.0
124.5°	3.4	3.5	4.4	5.1	5.5	5.6	5.4	4.9	4.1	3.0	3.0
125°	3.4	3.3	4.3	5.0	5.3	5.4	5.3	4.7	4.0	2.9	3.0
125.5°	3.5	3.1	4.2	4.8	5.2	5.3	5.1	4.6	3.8	2.7	3.1
126°	3.6	3.0	4.1	4.7	5.0	5.1	5.0	4.5	3.7	2.6	3.1
126.5°	3.6	3.0	3.9	4.6	4.9	5.0	4.9	4.4	3.5	2.6	3.2
127°	3.7	3.1	3.7	4.4	4.8	4.9	4.7	4.3	3.3	2.6	3.2
127.5°	3.8	3.1	3.6	4.3	4.7	4.7	4.6	4.2	3.1	2.7	3.2
128°	3.8	3.2	3.4	4.2	4.6	4.6	4.5	4.0	3.0	2.7	3.3
128.5°	3.9	3.2	3.2	4.0	4.4	4.5	4.4	3.8	2.9	2.8	3.3
129°	4.0	3.3	3.0	3.8	4.3	4.4	4.3	3.6	2.8	2.8	3.3
129.5°	4.0	3.4	3.0	3.7	4.2	4.3	4.1	3.4	2.7	2.9	3.3
130°	4.1	3.4	3.0	3.5	3.9	4.1	3.9	3.3	2.8	2.9	3.3
130.5°	4.1	3.5	3.1	3.3	3.7	3.8	3.6	3.1	2.8	3.0	3.3
131°	4.1	3.5	3.1	3.1	3.6	3.7	3.5	3.0	2.9	3.0	3.3
131.5°	4.1	3.6	3.2	3.0	3.4	3.5	3.3	2.9	2.9	3.1	3.4
132°	4.2	3.6	3.2	3.0	3.2	3.3	3.1	2.9	3.0	3.1	3.4
132.5°	4.3	3.7	3.3	3.0	3.0	3.1	3.0	2.9	3.0	3.2	3.5
133°	4.3	3.8	3.3	3.1	3.0	2.9	2.9	3.0	3.1	3.3	3.6
133.5°	4.4	3.8	3.4	3.1	3.0	2.9	3.0	3.0	3.1	3.4	3.7



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	4.7	4.0	3.5	3.3	3.1	3.0	3.1	3.2	3.3	3.6	4.0
135.5°	4.7	4.1	3.6	3.3	3.2	3.1	3.2	3.2	3.3	3.6	4.1
136°	4.8	4.1	3.6	3.4	3.2	3.1	3.2	3.2	3.4	3.7	4.1
136.5°	4.9	4.2	3.7	3.4	3.3	3.2	3.3	3.3	3.4	3.7	4.1
137°	4.9	4.3	3.8	3.5	3.3	3.2	3.3	3.3	3.5	3.8	4.1
137.5°	4.9	4.3	3.8	3.5	3.4	3.3	3.4	3.4	3.6	3.9	4.1
138°	4.8	4.4	3.9	3.6	3.4	3.3	3.4	3.4	3.7	4.0	4.0
138.5°	4.7	4.5	4.0	3.6	3.5	3.4	3.5	3.5	3.7	4.1	3.9
139°	4.7	4.6	4.0	3.7	3.5	3.4	3.5	3.5	3.8	4.2	3.9
139.5°	4.7	4.6	4.1	3.7	3.6	3.5	3.5	3.6	3.9	4.3	3.8
140°	4.7	4.7	4.2	3.8	3.6	3.5	3.6	3.7	4.0	4.3	3.8
140.5°	4.6	4.7	4.3	3.8	3.7	3.6	3.7	3.8	4.1	4.3	3.8
141°	4.6	4.8	4.4	3.9	3.7	3.7	3.7	3.8	4.2	4.4	3.8
141.5°	4.6	4.8	4.5	4.0	3.8	3.7	3.8	3.9	4.3	4.4	3.8
142°	4.6	4.8	4.6	4.1	3.8	3.8	3.8	4.0	4.4	4.3	3.8
142.5°	4.6	4.7	4.6	4.2	3.9	3.8	3.9	4.1	4.4	4.2	3.8
143°	4.7	4.6	4.6	4.3	4.0	3.9	4.0	4.3	4.5	4.1	3.8
143.5°	4.7	4.6	4.7	4.5	4.1	4.0	4.1	4.4	4.5	4.1	3.8
144°	4.7	4.5	4.8	4.6	4.2	4.1	4.3	4.5	4.5	4.1	3.8
144.5°	4.6	4.5	4.8	4.6	4.4	4.3	4.5	4.6	4.5	4.1	3.8
145°	4.6	4.5	4.7	4.7	4.5	4.5	4.6	4.6	4.4	4.0	3.8
145.5°	4.6	4.5	4.6	4.7	4.6	4.6	4.6	4.6	4.3	4.0	3.8
146°	4.6	4.5	4.5	4.8	4.6	4.6	4.6	4.7	4.2	4.0	3.8
146.5°	4.6	4.5	4.5	4.8	4.7	4.7	4.7	4.7	4.2	4.0	3.8
147°	4.7	4.5	4.5	4.7	4.8	4.7	4.8	4.6	4.2	4.0	3.8
147.5°	4.6	4.5	4.5	4.5	4.8	4.8	4.8	4.4	4.2	4.0	3.7
148°	4.6	4.5	4.5	4.5	4.6	4.8	4.7	4.4	4.2	4.0	3.7
148.5°	4.7	4.5	4.5	4.4	4.5	4.6	4.6	4.4	4.2	4.0	3.7
149°	4.7	4.5	4.5	4.4	4.4	4.5	4.5	4.4	4.2	4.0	3.7
149.5°	4.7	4.5	4.5	4.5	4.4	4.5	4.5	4.3	4.2	3.9	3.7
150°	4.7	4.5	4.5	4.4	4.4	4.5	4.5	4.3	4.2	3.9	3.7
150.5°	4.6	4.5	4.5	4.4	4.4	4.5	4.4	4.3	4.2	3.9	3.7
151°	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.2	3.9	3.7
151.5°	4.7	4.4	4.4	4.5	4.4	4.4	4.4	4.3	4.1	3.8	3.8
152°	4.8	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.1	3.8	3.8
152.5°	4.8	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.1	3.8	3.8
153°	4.8	4.4	4.4	4.4	4.4	4.5	4.4	4.3	4.1	3.9	3.8
153.5°	4.9	4.4	4.3	4.4	4.4	4.4	4.4	4.3	4.1	3.9	3.8
154°	4.9	4.4	4.3	4.4	4.4	4.4	4.4	4.3	4.1	3.9	3.9
154.5°	4.9	4.5	4.3	4.3	4.4	4.4	4.3	4.3	4.1	3.9	3.9
155°	5.0	4.6	4.3	4.3	4.3	4.4	4.3	4.3	4.1	3.9	3.9
155.5°	4.8	4.7	4.4	4.3	4.3	4.4	4.3	4.3	4.1	4.0	3.9
156°	4.7	4.7	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.0	4.0



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.0	4.6	4.6	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.1
158°	4.8	4.6	4.6	4.4	4.3	4.4	4.4	4.3	4.3	4.2	4.1
158.5°	4.5	4.5	4.6	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.2
159°	4.4	4.5	4.7	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.2
159.5°	4.3	4.5	4.8	4.6	4.4	4.4	4.4	4.5	4.5	4.4	4.3
160°	4.3	4.5	4.8	4.7	4.5	4.5	4.5	4.5	4.6	4.5	4.3
160.5°	4.3	4.5	4.8	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.4
161°	4.3	4.5	4.7	4.8	4.6	4.6	4.6	4.6	4.7	4.6	4.4
161.5°	4.3	4.4	4.6	4.9	4.7	4.7	4.7	4.7	4.8	4.7	4.4
162°	4.2	4.3	4.6	4.9	4.8	4.7	4.8	4.8	4.9	4.7	4.5
162.5°	4.2	4.3	4.5	4.9	4.8	4.8	4.8	4.9	4.9	4.8	4.4
163°	4.2	4.3	4.5	4.9	4.9	4.9	4.9	4.9	5.0	4.7	4.4
163.5°	4.1	4.3	4.4	4.8	5.0	4.9	5.0	5.0	5.0	4.7	4.5
164°	4.1	4.3	4.3	4.7	5.0	5.0	5.0	5.0	5.0	4.9	4.4
164.5°	4.1	4.2	4.3	4.6	5.0	5.0	5.1	5.1	5.0	4.9	3.9
165°	4.0	4.2	4.3	4.6	5.0	5.1	5.1	5.1	5.0	4.6	3.7
165.5°	4.0	4.2	4.2	4.5	5.0	5.1	5.1	5.2	5.0	3.9	4.3
166°	3.9	4.2	4.2	4.3	4.9	5.1	5.2	5.2	4.9	4.0	4.5
166.5°	3.9	4.3	4.2	4.2	4.9	5.2	5.2	5.2	5.0	4.6	3.9
167°	3.8	4.4	4.3	4.2	4.7	5.2	5.2	5.2	4.4	4.4	3.4
167.5°	3.8	4.5	4.4	4.1	4.7	5.1	5.2	5.2	3.9	3.7	4.0
168°	4.0	4.5	4.5	4.1	4.6	5.1	5.1	5.1	4.4	3.5	4.4
168.5°	4.1	4.6	4.7	4.2	4.3	5.1	5.1	5.1	4.8	4.4	4.1
169°	4.1	4.5	4.7	4.2	4.1	5.0	5.0	5.0	3.8	4.5	4.1
169.5°	4.0	4.5	4.7	4.3	4.0	4.9	5.0	4.6	3.3	4.4	4.2
170°	4.1	4.4	4.6	4.5	4.0	4.7	5.0	4.0	4.4	4.4	4.2
170.5°	4.2	4.3	4.5	4.6	4.0	4.7	4.9	3.8	4.5	4.4	4.2
171°	4.1	4.3	4.4	4.6	4.0	4.5	4.9	3.9	4.3	4.4	4.2
171.5°	4.1	4.2	4.3	4.5	4.0	4.4	4.8	3.4	4.4	4.3	4.1
172°	4.0	4.1	4.3	4.4	4.2	3.9	4.7	3.6	4.5	4.3	4.1
172.5°	4.0	4.1	4.2	4.3	4.2	3.8	4.5	4.1	4.3	4.2	4.0
173°	3.9	4.1	4.1	4.3	4.2	3.8	4.3	4.1	4.2	4.1	3.9
173.5°	3.9	4.0	4.1	4.2	4.2	3.7	3.7	4.2	4.1	3.9	3.8
174°	3.9	4.0	4.0	4.1	4.2	3.6	3.2	4.1	4.0	3.8	3.7
174.5°	3.9	3.9	4.0	4.0	4.1	3.5	2.9	4.0	3.9	3.8	3.7
175°	3.9	3.9	3.9	4.0	4.0	3.5	3.4	3.9	3.8	3.7	3.7
175.5°	3.8	3.8	3.9	3.9	4.0	3.5	3.8	3.8	3.7	3.7	3.6
176°	3.8	3.8	3.8	3.8	3.8	3.4	3.8	3.7	3.6	3.7	3.6
176.5°	3.8	3.8	3.8	3.7	3.7	3.4	3.6	3.6	3.7	3.6	3.6
177°	3.7	3.7	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6
177.5°	3.6	3.6	3.6	3.5	3.6	1.4	3.6	3.6	3.6	3.6	3.6
178°	3.6	3.6	3.6	3.6	3.6	2.1	3.6	3.6	3.6	3.6	3.6
178.5°	3.6	3.6	3.7	3.6	3.3	2.8	3.4	3.6	3.6	3.6	3.6



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1893.6	1893.6	1893.6	1893.6
0.5°	1893.2	1893.1	1893.1	1893.1
1°	1892.8	1892.8	1892.8	1892.9
1.5°	1892.4	1892.6	1892.6	1892.9
2°	1890.8	1891.7	1892.4	1892.6
2.5°	1889.2	1889.6	1891.2	1891.9
3°	1887.8	1889.0	1890.4	1890.6
3.5°	1887.0	1888.7	1889.1	1889.3
4°	1885.7	1887.6	1887.7	1888.5
4.5°	1883.0	1885.2	1885.6	1886.4
5°	1881.5	1882.9	1884.4	1885.2
5.5°	1880.1	1880.8	1882.7	1884.0
6°	1877.1	1879.6	1880.6	1882.5
6.5°	1874.2	1875.9	1878.4	1880.5
7°	1872.8	1873.4	1876.9	1878.6
7.5°	1869.3	1871.6	1872.8	1876.0
8°	1865.6	1868.2	1871.3	1874.1
8.5°	1861.8	1864.7	1868.5	1870.5
9°	1858.8	1861.4	1865.1	1868.5
9.5°	1855.1	1858.0	1861.6	1865.1
10°	1850.7	1853.7	1858.4	1861.3
10.5°	1846.9	1850.8	1854.0	1857.9
11°	1842.5	1847.5	1851.4	1854.0
11.5°	1838.1	1843.0	1847.8	1850.0
12°	1833.8	1838.6	1844.0	1846.1
12.5°	1828.5	1833.9	1839.3	1842.5
13°	1823.2	1828.9	1834.8	1838.1
13.5°	1818.2	1824.0	1830.5	1833.2
14°	1812.8	1819.1	1825.2	1828.7
14.5°	1807.1	1814.6	1820.0	1824.1
15°	1801.3	1808.7	1814.8	1818.8
15.5°	1795.0	1802.6	1809.4	1814.0
16°	1788.7	1796.9	1804.5	1808.1
16.5°	1782.2	1790.6	1799.2	1801.6
17°	1776.2	1784.4	1792.7	1795.6
17.5°	1769.4	1778.3	1785.8	1790.6
18°	1762.9	1772.2	1779.6	1785.1
18.5°	1756.1	1765.8	1773.5	1778.1
19°	1748.5	1758.8	1767.0	1771.5
19.5°	1740.2	1751.7	1760.2	1764.9
20°	1732.7	1744.3	1752.9	1758.3
20.5°	1725.6	1736.5	1745.9	1751.5
21°	1718.2	1728.7	1738.2	1744.8



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	1692.3	1705.1	1715.9	1721.6
23°	1683.6	1696.9	1707.5	1714.7
23.5°	1674.9	1688.2	1699.1	1706.1
24°	1665.9	1679.8	1690.9	1697.9
24.5°	1656.5	1671.0	1682.7	1690.1
25°	1647.4	1661.7	1674.2	1681.8
25.5°	1637.2	1653.1	1664.9	1672.7
26°	1628.5	1643.6	1656.0	1664.0
26.5°	1618.4	1634.0	1646.9	1654.8
27°	1608.5	1624.6	1637.2	1645.6
27.5°	1597.9	1615.6	1627.8	1636.6
28°	1587.8	1604.9	1618.4	1626.7
28.5°	1577.1	1594.8	1608.5	1617.1
29°	1565.8	1584.4	1598.6	1608.2
29.5°	1556.0	1573.7	1588.3	1598.3
30°	1545.1	1563.8	1578.0	1587.7
30.5°	1533.6	1552.7	1567.8	1577.8
31°	1521.9	1542.3	1557.3	1567.7
31.5°	1511.2	1530.5	1546.4	1557.0
32°	1499.4	1519.5	1535.3	1545.6
32.5°	1488.0	1508.2	1524.3	1534.6
33°	1476.5	1497.4	1513.0	1524.1
33.5°	1465.1	1486.4	1501.7	1512.8
34°	1452.4	1474.4	1490.3	1501.1
34.5°	1440.7	1462.1	1478.4	1489.2
35°	1428.7	1450.7	1467.1	1478.2
35.5°	1416.0	1438.4	1455.2	1466.8
36°	1403.5	1426.4	1443.1	1454.8
36.5°	1391.0	1413.9	1432.0	1442.6
37°	1378.5	1401.4	1420.0	1430.7
37.5°	1366.1	1388.9	1408.1	1419.0
38°	1353.1	1376.5	1394.8	1407.4
38.5°	1338.9	1364.0	1381.6	1394.3
39°	1325.3	1350.9	1368.4	1380.7
39.5°	1312.1	1337.5	1355.4	1367.5
40°	1299.0	1324.5	1343.2	1354.5
40.5°	1285.8	1311.5	1330.5	1342.4
41°	1271.9	1297.9	1316.9	1329.4
41.5°	1258.4	1284.0	1303.9	1315.8
42°	1244.1	1270.5	1290.5	1302.9
42.5°	1230.3	1257.1	1276.6	1289.8
43°	1216.4	1243.1	1262.9	1276.1
43.5°	1202.5	1229.1	1249.6	1261.9



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	1159.7	1187.8	1208.0	1220.4
45.5°	1145.8	1173.5	1193.5	1206.9
46°	1131.3	1159.4	1179.5	1192.4
46.5°	1117.1	1145.1	1165.0	1177.6
47°	1103.1	1130.8	1151.0	1163.2
47.5°	1088.2	1116.6	1136.7	1149.3
48°	1074.0	1101.4	1121.9	1135.3
48.5°	1058.9	1087.3	1107.7	1120.5
49°	1044.5	1072.9	1093.3	1106.5
49.5°	1030.2	1057.9	1078.5	1091.7
50°	1015.1	1043.1	1063.6	1077.0
50.5°	1000.5	1028.7	1048.8	1061.9
51°	986.4	1013.5	1034.3	1047.4
51.5°	971.7	999.3	1019.8	1032.4
52°	956.5	984.2	1004.3	1017.9
52.5°	941.7	969.2	989.8	1002.6
53°	926.9	954.5	974.5	987.7
53.5°	912.5	939.4	959.7	972.7
54°	897.7	924.5	944.7	957.7
54.5°	883.1	909.7	929.6	942.4
55°	868.6	894.9	914.6	927.0
55.5°	852.8	880.3	899.4	912.2
56°	838.1	864.3	883.9	896.7
56.5°	823.7	849.9	869.4	881.7
57°	809.2	834.8	854.1	867.0
57.5°	793.9	819.9	839.1	851.2
58°	779.2	804.2	823.4	835.7
58.5°	764.4	789.4	808.2	820.8
59°	750.3	774.2	793.1	805.2
59.5°	735.0	759.3	778.1	790.0
60°	720.3	744.1	762.9	774.4
60.5°	705.3	729.3	747.4	759.2
61°	691.1	714.4	731.9	743.8
61.5°	676.1	699.2	716.6	728.6
62°	661.5	684.3	701.4	713.1
62.5°	646.9	669.6	686.1	697.7
63°	632.7	654.4	670.8	682.3
63.5°	617.9	639.3	655.7	667.1
64°	603.0	624.4	640.3	651.5
64.5°	588.7	609.4	625.5	635.8
65°	574.7	594.3	610.2	620.1
65.5°	559.9	579.7	594.7	604.4
66°	546.1	565.2	579.5	588.6



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	503.1	520.8	534.4	542.8
68°	488.8	505.7	519.0	527.8
68.5°	474.5	491.2	503.6	512.4
69°	461.0	476.2	489.0	497.0
69.5°	446.9	461.7	473.8	481.9
70°	432.8	447.3	459.0	466.5
70.5°	418.8	432.9	443.9	451.3
71°	405.2	418.3	429.2	436.4
71.5°	391.4	403.9	414.2	421.3
72°	377.7	389.7	399.3	406.5
72.5°	364.0	375.6	384.3	391.6
73°	350.6	361.2	369.9	376.4
73.5°	337.6	347.4	355.4	361.2
74°	324.3	333.2	341.0	346.8
74.5°	310.8	319.3	326.5	332.1
75°	297.8	305.1	311.9	317.6
75.5°	285.0	291.7	297.5	302.7
76°	272.5	278.0	284.0	288.4
76.5°	259.6	264.8	269.6	274.2
77°	247.2	251.3	255.9	260.1
77.5°	234.7	238.4	242.0	245.8
78°	222.6	225.1	228.6	232.2
78.5°	210.7	212.6	214.8	218.3
79°	198.9	200.0	201.7	204.6
79.5°	187.4	187.8	189.1	191.2
80°	176.6	176.1	176.9	178.6
80.5°	165.8	164.5	164.6	165.5
81°	155.1	152.9	152.3	152.8
81.5°	144.3	141.2	140.0	140.4
82°	133.5	129.6	127.8	128.3
82.5°	123.4	119.0	116.2	115.9
83°	113.4	108.5	105.4	104.9
83.5°	103.9	98.2	94.4	93.9
84°	94.8	88.2	84.0	83.4
84.5°	86.3	79.0	74.0	73.0
85°	77.8	70.1	64.8	63.5
85.5°	70.2	61.6	55.7	55.2
86°	62.8	53.7	47.3	46.9
86.5°	55.8	46.4	39.4	38.7
87°	49.2	39.5	32.3	30.5
87.5°	43.3	33.3	27.2	23.4
88°	37.8	27.8	22.1	16.9
88.5°	32.9	24.2	17.1	11.4



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	21.0	13.1	4.8	3.6
90.5°	19.0	9.6	3.3	2.0
91°	16.9	7.9	2.4	0.4
91.5°	14.8	6.6	1.9	0.3
92°	12.8	5.8	1.6	0.3
92.5°	10.8	5.2	1.5	0.2
93°	9.8	4.8	1.3	0.2
93.5°	9.0	4.5	1.3	0.2
94°	8.5	4.1	1.2	0.3
94.5°	8.1	3.9	1.2	0.3
95°	7.7	3.7	1.2	0.4
95.5°	7.2	3.7	1.2	0.5
96°	6.8	3.7	1.2	0.6
96.5°	6.5	3.6	1.1	0.6
97°	6.3	3.6	1.1	0.7
97.5°	6.3	3.4	1.1	0.8
98°	6.2	3.3	1.0	0.8
98.5°	6.2	3.1	1.0	0.9
99°	6.2	3.0	1.0	1.0
99.5°	6.1	3.0	1.1	1.1
100°	6.0	2.9	1.2	1.2
100.5°	5.8	2.9	1.3	1.3
101°	5.6	2.9	1.4	1.4
101.5°	5.4	2.9	1.4	1.6
102°	5.2	2.8	1.5	1.7
102.5°	5.0	2.8	1.6	1.8
103°	4.9	2.7	1.7	1.8
103.5°	4.7	2.5	1.8	1.9
104°	4.6	2.4	1.8	1.9
104.5°	4.5	2.3	1.9	2.0
105°	4.4	2.3	1.9	2.0
105.5°	4.3	2.2	2.0	2.0
106°	4.2	2.2	2.2	2.0
106.5°	4.1	2.1	2.5	1.9
107°	4.0	2.0	2.6	1.9
107.5°	3.8	2.0	2.5	2.0
108°	3.6	1.9	2.5	2.0
108.5°	3.5	1.9	2.5	2.0
109°	3.3	1.9	2.4	2.0
109.5°	3.2	1.9	2.3	2.0
110°	3.1	2.0	2.3	2.0
110.5°	3.0	2.0	2.3	2.0
111°	2.9	2.0	2.3	2.0



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	2.7	2.1	2.4	2.1
113°	2.7	2.2	2.4	2.1
113.5°	2.6	2.2	2.4	2.1
114°	2.4	2.3	2.5	2.2
114.5°	2.4	2.4	2.5	2.2
115°	2.4	2.4	2.5	2.2
115.5°	2.3	2.5	2.5	2.2
116°	2.3	2.5	2.5	2.2
116.5°	2.3	2.6	2.5	2.2
117°	2.4	2.7	2.5	2.2
117.5°	2.5	2.9	2.5	2.2
118°	2.5	3.0	2.5	2.2
118.5°	2.6	3.1	2.5	2.3
119°	2.7	3.2	2.6	2.3
119.5°	2.7	3.2	2.6	2.3
120°	2.8	3.1	2.7	2.3
120.5°	2.8	3.1	2.7	2.4
121°	2.8	3.1	2.7	2.4
121.5°	2.8	3.1	2.7	2.4
122°	2.9	3.1	2.7	2.4
122.5°	2.9	3.1	2.7	2.5
123°	2.9	3.0	2.7	2.5
123.5°	2.9	2.9	2.8	2.5
124°	3.0	2.8	2.8	2.5
124.5°	3.1	2.9	2.8	2.5
125°	3.2	2.9	2.9	2.6
125.5°	3.3	3.1	2.9	2.6
126°	3.5	3.2	2.9	2.6
126.5°	3.6	3.3	3.0	2.6
127°	3.8	3.3	3.0	2.7
127.5°	3.9	3.4	3.0	2.7
128°	4.0	3.4	3.0	2.7
128.5°	4.0	3.4	3.1	2.8
129°	3.9	3.4	3.1	2.8
129.5°	3.9	3.4	3.2	2.8
130°	3.9	3.4	3.2	2.8
130.5°	3.9	3.4	3.0	2.8
131°	3.8	3.4	2.8	2.8
131.5°	3.7	3.4	2.8	2.8
132°	3.6	3.4	2.9	2.9
132.5°	3.6	3.4	3.0	2.9
133°	3.5	3.4	3.2	2.9
133.5°	3.5	3.3	3.2	2.9



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	3.5	3.3	3.1	3.0
135.5°	3.5	3.3	3.1	2.9
136°	3.5	3.3	3.1	2.9
136.5°	3.6	3.3	3.2	2.9
137°	3.6	3.3	3.1	2.9
137.5°	3.6	3.3	3.0	2.9
138°	3.6	3.3	3.0	2.9
138.5°	3.6	3.3	3.0	2.9
139°	3.6	3.4	3.0	3.0
139.5°	3.6	3.4	3.1	3.0
140°	3.6	3.5	3.1	3.0
140.5°	3.6	3.5	3.2	3.0
141°	3.6	3.5	3.2	3.0
141.5°	3.6	3.5	3.2	3.0
142°	3.6	3.5	3.2	3.0
142.5°	3.6	3.5	3.1	3.0
143°	3.6	3.5	3.1	3.0
143.5°	3.6	3.6	3.2	3.0
144°	3.6	3.6	3.1	3.0
144.5°	3.7	3.6	3.1	3.0
145°	3.7	3.6	3.1	3.0
145.5°	3.7	3.6	3.1	3.0
146°	3.7	3.7	3.1	3.0
146.5°	3.7	3.7	3.1	3.0
147°	3.7	3.7	3.1	3.0
147.5°	3.7	3.7	3.1	3.0
148°	3.7	3.7	3.1	3.0
148.5°	3.8	3.7	3.1	3.0
149°	3.8	3.7	3.1	2.9
149.5°	3.8	3.7	3.2	2.9
150°	3.8	3.8	3.2	2.9
150.5°	3.8	3.8	3.1	2.9
151°	3.8	3.8	3.0	2.8
151.5°	3.9	3.8	3.0	2.7
152°	3.9	3.7	3.0	2.6
152.5°	3.9	3.7	3.0	2.7
153°	3.9	3.6	2.9	2.6
153.5°	3.9	3.6	2.8	2.4
154°	3.9	3.5	2.7	2.2
154.5°	3.9	3.5	2.6	2.2
155°	4.0	3.4	2.6	2.2
155.5°	4.0	3.2	2.5	2.2
156°	4.0	3.2	2.3	2.1



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	4.0	3.1	2.2	1.9
158°	4.0	3.1	2.2	2.0
158.5°	4.0	3.1	2.2	2.0
159°	4.0	3.0	2.1	2.0
159.5°	4.1	3.0	2.1	2.0
160°	4.1	3.0	2.1	2.0
160.5°	4.1	3.0	2.1	2.0
161°	4.1	3.0	2.1	2.0
161.5°	4.1	3.0	2.1	2.0
162°	4.2	3.0	2.1	2.0
162.5°	4.1	2.9	2.1	2.0
163°	4.0	2.8	2.0	2.1
163.5°	4.1	2.6	2.0	2.1
164°	4.2	2.6	2.0	2.1
164.5°	3.7	2.6	2.0	2.1
165°	3.5	2.5	2.0	2.1
165.5°	3.8	2.4	2.0	2.1
166°	3.9	2.2	2.1	2.1
166.5°	3.4	2.2	2.1	2.1
167°	3.1	2.2	2.1	2.2
167.5°	3.6	2.5	2.1	2.2
168°	3.9	2.8	2.1	2.1
168.5°	3.6	2.8	2.2	2.2
169°	3.6	2.8	2.3	2.2
169.5°	3.7	3.0	2.4	2.3
170°	3.5	3.0	2.7	2.3
170.5°	3.5	3.0	2.9	2.6
171°	3.8	3.3	2.9	3.0
171.5°	3.8	3.4	3.1	3.0
172°	3.7	3.4	3.3	3.0
172.5°	3.7	3.5	3.3	3.2
173°	3.7	3.5	3.3	3.2
173.5°	3.7	3.5	3.4	3.2
174°	3.6	3.6	3.5	3.3
174.5°	3.6	3.6	3.5	3.4
175°	3.6	3.6	3.5	3.5
175.5°	3.6	3.5	3.5	3.5
176°	3.6	3.5	3.5	3.5
176.5°	3.6	3.5	3.5	3.5
177°	3.6	3.5	3.5	3.5
177.5°	3.5	3.5	3.5	3.5
178°	3.5	3.5	3.5	3.5
178.5°	3.6	3.6	3.6	3.6



TEST NUMBER: P563540

CATALOG NUMBER: 4NWS3C3-UNV-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	3.3	3.3	3.3	3.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







21.5°	1737.5	1741.7	1741.3	1738.1	1731.7	1724.2	1716.2	1709.5	1703.8	1701.0	1699.9
22°	1729.3	1733.8	1733.7	1730.0	1723.8	1715.9	1707.1	1700.2	1695.1	1691.3	1690.4



44°	1248.2	1252.8	1246.9	1233.7	1212.3	1186.1	1159.3	1136.4	1119.6	1111.2	1112.3
44.5°	1234.4	1238.2	1233.4	1219.4	1198.0	1171.2	1145.0	1121.7	1104.8	1096.7	1096.6



66.5°	573.2	578.6	577.2	569.2	556.1	538.1	521.5	506.9	496.2	490.0	488.4
67°	557.9	562.9	562.3	555.0	542.0	525.0	509.2	494.7	484.0	478.2	477.0



89°	7.0	13.8	26.3	40.6	54.1	63.4	70.9	75.3	77.0	76.3	73.5
89.5°	5.2	9.7	21.6	35.4	48.7	58.7	66.2	70.0	71.8	71.2	68.5



111.5°	2.1	2.0	1.7	1.5	2.0	3.1	4.5	5.9	6.9	7.1	6.9
112°	2.1	2.0	1.7	1.6	2.0	3.0	4.3	5.6	6.5	6.8	6.6



134°	2.9	3.0	2.9	3.6	3.6	3.2	3.2	3.2	3.3	3.4	3.6
134.5°	2.9	3.0	3.0	3.6	3.7	3.3	3.2	3.3	3.3	3.5	3.6



156.5°	2.0	3.1	3.6	3.5	3.5	3.6	3.8	4.1	4.4	4.5	4.6
157°	1.9	3.1	3.6	3.6	3.6	3.6	3.7	4.0	4.3	4.4	4.5



179°	3.5	3.4	3.2	3.0	2.8	2.7	2.8	3.1	3.3	3.5	3.5
179.5°	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.2	3.3	3.3	3.3





21.5°	1701.5	1705.9	1709.9	1715.0	1719.7	1721.8	1721.9	1719.7	1714.5	1706.4	1696.2
22°	1692.1	1696.2	1701.3	1706.9	1712.1	1713.8	1714.1	1712.0	1706.1	1697.9	1687.4



44°	1120.5	1137.1	1158.7	1178.9	1197.0	1210.0	1215.0	1212.9	1204.1	1187.9	1164.2
44.5°	1106.1	1123.0	1144.1	1163.9	1182.6	1195.6	1200.1	1199.1	1190.4	1173.5	1149.5



66.5°	491.9	499.4	509.7	520.1	529.2	535.3	533.9	532.9	526.4	517.0	503.4
67°	480.2	487.0	496.7	506.3	514.5	519.4	519.1	517.7	511.4	502.2	489.3



89°	68.6	61.6	52.9	40.3	27.1	14.5	5.9	0.9	4.8	13.4	22.1
89.5°	64.1	57.3	47.9	35.9	23.2	11.6	4.6	0.8	3.5	10.1	19.9



111.5°	6.0	4.7	3.5	2.6	2.6	3.2	3.9	3.5	4.1	3.0	3.5
112°	5.7	4.5	3.3	2.6	2.7	3.3	3.9	3.6	4.2	3.1	3.5



134°	3.8	4.3	5.0	6.1	6.2	4.9	4.3	4.0	5.0	5.3	4.8
134.5°	3.9	4.4	5.1	6.2	6.1	4.9	4.3	4.0	5.0	5.3	4.8



156.5°	4.5	4.2	4.1	4.3	4.2	4.0	3.8	3.3	3.5	4.0	4.4
157°	4.4	4.2	4.1	4.2	4.1	3.9	3.6	3.3	3.5	3.9	4.4



179°	3.3	3.2	3.0	3.0	3.1	3.1	3.2	3.2	3.3	3.4	3.5
179.5°	3.3	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0





21.5°	1685.1	1673.3	1663.6	1655.4	1651.4	1650.5	1652.8	1660.0	1670.3	1683.5	1696.9
22°	1676.2	1663.3	1653.0	1645.8	1641.5	1639.6	1642.9	1649.3	1660.3	1673.6	1687.7



44°	1137.6	1108.4	1082.4	1061.7	1049.0	1045.7	1052.3	1068.7	1093.8	1124.0	1157.7
44.5°	1123.5	1093.3	1067.6	1047.1	1033.9	1030.5	1037.4	1054.2	1079.2	1109.8	1142.7



66.5°	488.3	472.7	459.3	449.2	443.4	442.9	447.3	457.1	471.5	490.0	510.5
67°	474.5	459.7	447.2	437.7	432.2	431.7	435.5	445.4	459.2	476.9	496.9



89°	32.1	41.2	48.4	53.7	57.0	58.4	58.2	56.1	52.2	46.1	37.9
89.5°	28.7	37.5	44.6	49.8	53.1	54.5	54.1	52.0	47.9	41.8	33.8



111.5°	5.6	8.0	9.8	11.0	11.8	12.1	11.8	10.7	9.0	7.1	4.9
112°	5.4	7.7	9.6	10.7	11.5	11.8	11.5	10.4	8.8	7.0	4.7



134°	4.5	3.9	3.4	3.2	3.0	3.0	3.0	3.1	3.2	3.4	3.8
134.5°	4.6	4.0	3.5	3.2	3.1	3.0	3.1	3.1	3.2	3.5	4.0



156.5°	4.8	4.7	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.0
157°	5.0	4.7	4.5	4.4	4.3	4.3	4.3	4.3	4.2	4.1	4.0



179°	3.5	3.4	3.2	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.6
179.5°	3.1	3.1	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.4





21.5°	1709.7	1721.5	1730.6	1737.5
22°	1700.6	1714.1	1723.8	1729.3



44°	1188.5	1215.8	1235.3	1248.2
44.5°	1175.1	1201.4	1221.8	1234.4



66.5°	531.4	550.3	564.5	573.2
67°	517.1	535.5	549.7	557.9



89°	28.4	20.5	12.0	7.0
89.5°	24.5	16.8	7.1	5.2



111.5°	2.8	2.1	2.3	2.1
112°	2.8	2.1	2.4	2.1



134°	3.5	3.3	3.2	2.9
134.5°	3.5	3.3	3.1	2.9



156.5°	4.0	3.2	2.2	2.0
157°	4.0	3.1	2.2	1.9



179°	3.6	3.6	3.6	3.5
179.5°	3.4	3.4	3.3	3.2



(END OF REPORT)