

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: P563542

Luminaire Tested: **4NWS3C3-UNV-HI-5000K**

Issue Date: 7/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563542
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-5000K
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND HI LUMEN SETTING
Light Source: -
Ballast/Driver:

Summary

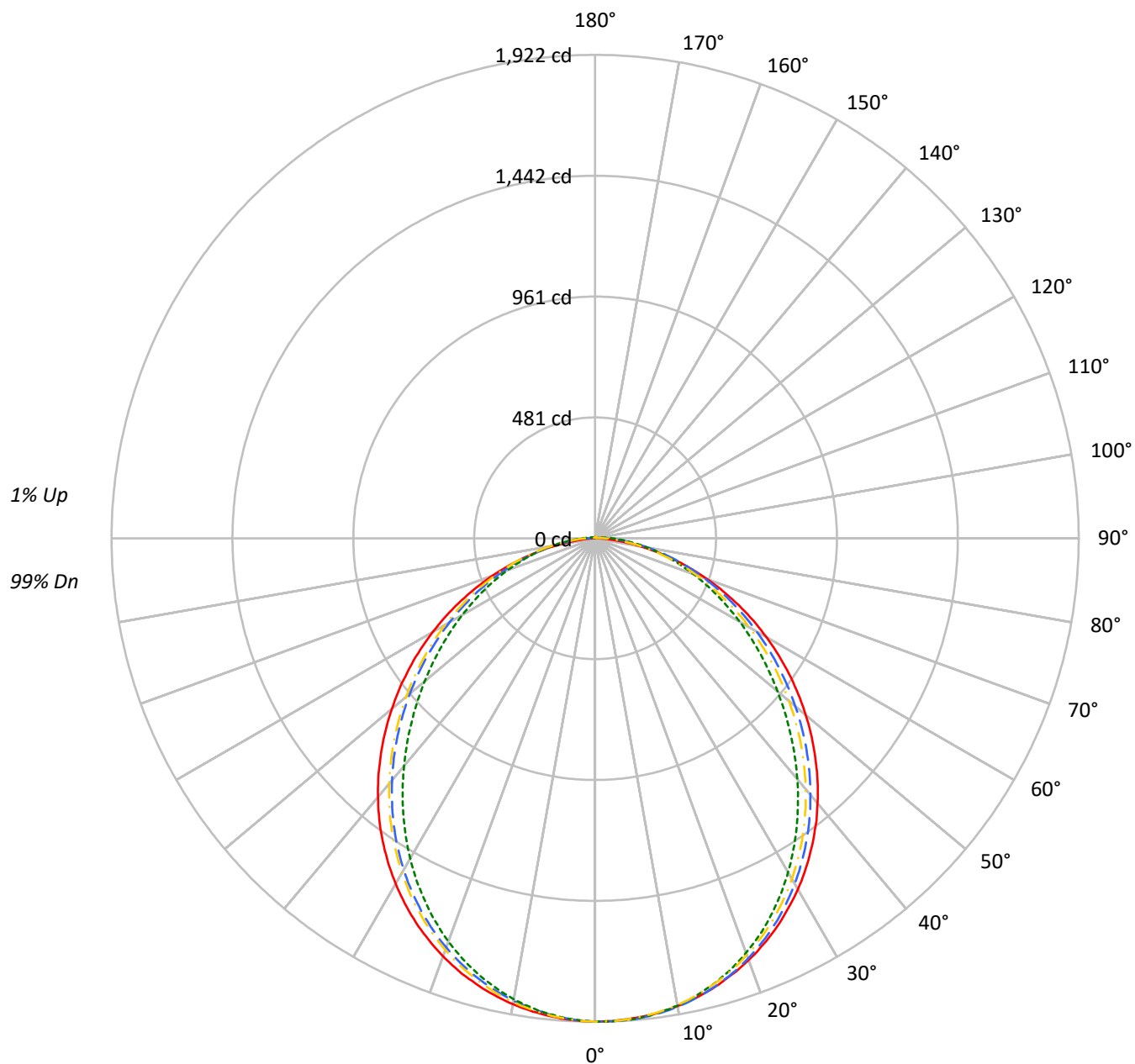
Lumens per Lamp: N/A
Luminaire Lumens: 5010.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 40.7
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

TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	11680	11680	11680	11680
5°	11652	11505	11632	11419
10°	11616	11274	11566	11120
15°	11551	10978	11472	10752
20°	11455	10617	11353	10330
25°	11336	10199	11195	9842
30°	11175	9711	10998	9309
35°	10971	9165	10760	8722
40°	10721	8571	10470	8103
45°	10430	7947	10130	7463
50°	10085	7313	9731	6829
55°	9682	6705	9270	6207
60°	9221	6099	8738	5597
65°	8666	5482	8095	4978
70°	7960	4866	7277	4338
75°	7025	4223	6169	3652
80°	5678	3532	4620	2932
85°	3630	2820	2334	2241



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	3.6
10°-20°	514.8	10.3
20°-30°	764.5	15.3
30°-40°	891.1	17.8
40°-50°	882.2	17.6
50°-60°	757.6	15.1
60°-70°	554.5	11.1
70°-80°	314.8	6.3
80°-90°	104.9	2.1
90°-100°	19.0	0.4
100°-110°	8.0	0.2
110°-120°	4.8	0.1
120°-130°	3.4	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°	1460.6	29.2
0°-40°	2351.7	46.9
0°-60°	3991.5	79.7
0°-90°	4965.6	99.1
90°-120°	31.8	0.6
90°-150°	41.0	0.8
90°-180°	44.0	0.9
0°-180°	5010.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1922	1922	1922	1922	1922	
5°	1913	1916	1910	1902	1913	182
15°	1846	1832	1833	1794	1846	521
25°	1707	1654	1685	1596	1707	786
35°	1500	1397	1471	1330	1500	938
45°	1238	1098	1203	1031	1238	955
55°	941	802	901	742	941	841
65°	629	534	588	485	629	623
75°	322	306	283	264	322	341
85°	64	127	41	101	64	77
90°	4	67	1	52	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	6	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	



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6
0.5°	1921.1	1921.2	1921.3	1921.5	1921.7	1921.8	1921.9	1922.0	1922.0	1922.1	1922.0
1°	1920.9	1921.1	1921.5	1921.8	1922.1	1922.2	1922.2	1922.2	1921.6	1920.9	1921.4
1.5°	1920.9	1921.7	1921.8	1921.1	1920.8	1921.1	1921.8	1922.2	1921.6	1922.5	1922.7
2°	1920.6	1921.1	1921.2	1921.1	1921.5	1922.1	1922.5	1922.5	1921.5	1921.6	1922.0
2.5°	1919.9	1920.4	1920.4	1920.6	1920.6	1920.0	1920.3	1920.1	1922.1	1920.9	1920.1
3°	1918.5	1918.9	1919.7	1920.1	1920.6	1920.7	1921.1	1921.5	1920.8	1920.6	1920.7
3.5°	1917.2	1918.2	1919.0	1920.5	1919.8	1920.3	1920.3	1919.8	1920.4	1919.1	1918.5
4°	1916.4	1918.1	1917.6	1919.3	1918.9	1919.2	1919.1	1918.8	1917.8	1919.9	1918.1
4.5°	1914.3	1915.9	1916.4	1917.6	1918.6	1918.4	1917.6	1918.5	1917.8	1917.9	1916.1
5°	1913.1	1914.6	1915.2	1915.9	1917.1	1917.0	1915.2	1915.9	1916.5	1916.4	1914.8
5.5°	1911.9	1913.3	1914.1	1914.4	1915.0	1914.4	1913.8	1913.8	1914.6	1914.2	1912.4
6°	1910.3	1911.6	1912.0	1912.9	1913.9	1912.9	1912.5	1912.0	1912.2	1911.6	1909.7
6.5°	1908.3	1909.9	1910.2	1910.8	1911.9	1911.0	1911.3	1909.9	1909.9	1909.8	1907.7
7°	1906.4	1907.3	1908.9	1908.4	1908.5	1907.4	1909.1	1907.3	1907.1	1906.9	1905.4
7.5°	1903.7	1904.7	1906.1	1907.2	1907.0	1906.0	1905.5	1904.8	1904.1	1902.6	1902.7
8°	1901.8	1901.8	1904.0	1904.2	1904.1	1903.4	1902.7	1902.1	1901.4	1900.4	1899.9
8.5°	1898.2	1898.6	1901.4	1901.0	1901.4	1900.9	1899.8	1899.0	1897.8	1897.0	1895.6
9°	1896.1	1897.8	1898.0	1898.7	1898.8	1898.0	1896.0	1895.7	1894.3	1894.8	1892.0
9.5°	1892.7	1894.3	1895.7	1895.3	1895.7	1894.0	1891.8	1891.8	1890.9	1889.0	1888.3
10°	1888.8	1891.0	1892.1	1892.2	1891.9	1890.6	1888.5	1887.2	1886.6	1886.9	1885.0
10.5°	1885.4	1887.2	1888.9	1889.1	1888.3	1886.8	1884.3	1883.0	1882.2	1881.9	1880.4
11°	1881.4	1882.7	1884.9	1885.0	1884.3	1883.4	1879.6	1879.1	1878.7	1877.4	1875.9
11.5°	1877.3	1879.9	1880.8	1881.3	1879.7	1879.1	1875.4	1875.0	1873.7	1872.8	1871.1
12°	1873.4	1875.7	1877.4	1877.6	1875.8	1874.3	1871.6	1870.1	1867.4	1867.9	1865.3
12.5°	1869.7	1871.5	1873.2	1873.3	1870.8	1869.8	1866.9	1865.0	1862.8	1862.2	1860.7
13°	1865.3	1867.8	1869.0	1868.4	1865.6	1865.2	1861.6	1859.9	1857.9	1855.9	1855.2
13.5°	1860.3	1863.3	1864.6	1864.1	1861.2	1860.1	1855.4	1854.0	1852.1	1850.0	1848.3
14°	1855.7	1858.5	1859.6	1859.8	1856.1	1854.0	1850.6	1848.2	1846.2	1843.7	1842.9
14.5°	1851.0	1853.6	1854.7	1854.7	1850.4	1848.9	1845.6	1842.1	1839.1	1838.4	1835.9
15°	1845.7	1848.8	1849.5	1849.0	1845.7	1843.5	1839.1	1836.0	1833.1	1832.1	1830.6
15.5°	1840.8	1843.7	1843.8	1843.0	1840.6	1837.8	1832.2	1830.2	1826.5	1825.6	1823.3
16°	1834.8	1838.5	1838.9	1837.6	1834.2	1831.2	1826.2	1823.2	1820.3	1818.0	1815.9
16.5°	1828.2	1832.8	1833.7	1832.2	1828.1	1824.8	1819.4	1815.9	1813.0	1810.1	1809.5
17°	1822.2	1827.2	1827.2	1826.4	1822.6	1818.4	1812.9	1808.6	1805.3	1803.8	1802.8
17.5°	1817.1	1820.8	1821.3	1819.9	1816.1	1811.3	1804.8	1801.4	1797.2	1796.4	1794.3
18°	1811.5	1814.4	1815.3	1813.5	1809.1	1804.6	1798.2	1793.9	1789.8	1787.6	1786.7
18.5°	1804.4	1809.0	1809.4	1807.3	1802.6	1797.6	1790.6	1785.8	1782.5	1779.6	1778.5
19°	1797.7	1802.7	1803.2	1800.3	1795.8	1790.0	1783.6	1777.8	1773.7	1771.1	1770.7
19.5°	1791.0	1795.4	1795.7	1793.3	1788.2	1782.0	1775.1	1769.9	1764.9	1763.7	1760.7
20°	1784.3	1788.4	1788.3	1786.1	1780.9	1774.2	1766.4	1761.1	1756.6	1753.4	1752.6
20.5°	1777.4	1781.7	1781.6	1778.9	1773.5	1766.7	1758.1	1752.1	1748.0	1744.8	1743.3
21°	1770.6	1774.8	1774.4	1771.3	1765.1	1758.3	1750.2	1743.3	1739.2	1735.1	1734.4



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1747.1	1751.5	1751.8	1747.5	1741.1	1732.8	1723.3	1715.8	1710.2	1707.0	1705.0
23°	1740.1	1743.8	1743.4	1739.4	1732.6	1724.1	1714.2	1706.1	1700.0	1697.9	1695.5
23.5°	1731.3	1735.9	1735.4	1731.0	1724.0	1714.7	1704.9	1695.9	1689.7	1686.6	1685.0
24°	1723.0	1727.8	1727.5	1722.3	1714.8	1705.5	1694.4	1685.7	1679.3	1676.2	1674.9
24.5°	1715.1	1719.3	1718.6	1713.8	1705.4	1695.8	1685.8	1676.1	1668.8	1665.3	1663.6
25°	1706.6	1711.1	1709.8	1704.9	1696.6	1686.0	1675.5	1665.6	1658.0	1653.7	1652.9
25.5°	1697.5	1702.0	1701.1	1695.7	1687.9	1676.2	1664.8	1654.7	1647.4	1643.2	1641.5
26°	1688.6	1692.4	1692.0	1685.7	1678.2	1665.8	1654.0	1643.3	1635.4	1630.8	1630.6
26.5°	1679.2	1683.7	1681.7	1677.0	1667.4	1655.5	1642.9	1632.4	1624.4	1620.2	1618.5
27°	1669.9	1675.1	1672.6	1666.8	1657.3	1645.3	1632.2	1621.2	1612.9	1607.6	1607.5
27.5°	1660.7	1665.5	1663.8	1656.6	1647.2	1634.2	1622.3	1609.6	1600.2	1596.6	1595.4
28°	1650.7	1656.0	1654.3	1647.1	1636.9	1623.5	1609.5	1598.3	1588.8	1584.2	1582.7
28.5°	1641.0	1646.1	1644.4	1637.4	1626.9	1613.0	1598.4	1586.6	1576.0	1570.7	1570.1
29°	1632.0	1636.4	1634.4	1626.8	1615.6	1601.5	1587.2	1574.3	1565.1	1559.6	1558.1
29.5°	1621.9	1626.6	1623.9	1616.9	1604.8	1590.3	1576.0	1562.1	1551.1	1546.6	1546.6
30°	1611.2	1615.4	1613.6	1605.4	1593.8	1578.6	1563.3	1549.8	1539.0	1533.4	1533.9
30.5°	1601.1	1605.2	1603.1	1595.4	1582.7	1566.6	1551.3	1537.3	1525.0	1520.8	1519.9
31°	1590.9	1595.4	1592.1	1584.7	1571.9	1555.3	1538.5	1524.4	1513.4	1507.9	1506.5
31.5°	1580.1	1584.8	1581.6	1573.0	1560.5	1543.7	1526.1	1511.1	1500.1	1494.2	1492.9
32°	1568.4	1573.0	1570.3	1561.2	1548.2	1531.0	1513.8	1498.6	1486.8	1480.4	1480.0
32.5°	1557.3	1561.9	1559.2	1549.5	1536.2	1518.6	1501.3	1485.7	1474.4	1466.9	1466.7
33°	1546.7	1551.2	1547.7	1538.9	1524.3	1506.7	1488.7	1472.2	1460.4	1453.6	1453.3
33.5°	1535.2	1539.6	1536.4	1527.4	1512.7	1494.2	1475.7	1459.2	1446.2	1439.5	1439.1
34°	1523.3	1528.5	1524.8	1515.0	1500.6	1481.0	1461.9	1445.3	1432.5	1425.3	1425.2
34.5°	1511.2	1516.7	1513.1	1503.1	1488.4	1468.3	1448.5	1430.7	1418.1	1411.6	1410.8
35°	1500.0	1505.0	1501.6	1491.2	1475.4	1455.4	1435.5	1417.1	1403.5	1397.2	1397.0
35.5°	1488.4	1492.9	1490.1	1479.2	1462.5	1442.0	1421.8	1403.4	1389.4	1383.1	1382.7
36°	1476.3	1481.6	1477.0	1466.9	1450.2	1428.9	1408.2	1389.4	1374.9	1368.8	1368.2
36.5°	1463.9	1468.7	1464.9	1453.7	1437.7	1415.9	1394.5	1375.0	1360.8	1353.5	1354.2
37°	1451.8	1456.1	1452.5	1441.4	1424.5	1402.7	1380.9	1361.3	1345.5	1339.1	1339.5
37.5°	1440.0	1443.5	1439.8	1428.8	1411.2	1389.1	1366.6	1346.7	1331.5	1324.4	1324.6
38°	1428.2	1431.1	1427.8	1415.4	1398.0	1375.2	1352.4	1332.2	1317.2	1309.4	1309.2
38.5°	1414.9	1418.5	1413.9	1402.5	1384.3	1361.4	1338.2	1317.4	1302.6	1295.4	1294.8
39°	1401.2	1405.7	1401.3	1389.3	1370.9	1347.8	1324.2	1302.9	1288.1	1280.0	1279.4
39.5°	1387.7	1393.3	1388.3	1376.2	1357.0	1333.2	1310.0	1288.3	1272.4	1265.4	1265.4
40°	1374.6	1379.8	1375.5	1362.1	1343.5	1318.9	1294.9	1273.8	1257.5	1250.1	1250.2
40.5°	1362.2	1366.4	1362.3	1349.1	1329.5	1305.0	1280.3	1258.7	1242.2	1235.0	1234.4
41°	1349.0	1352.9	1348.8	1335.3	1315.6	1290.4	1265.9	1244.0	1227.4	1220.0	1219.1
41.5°	1335.2	1339.3	1334.7	1322.0	1301.7	1276.3	1250.8	1228.6	1211.4	1204.4	1204.2
42°	1322.1	1326.5	1321.5	1307.6	1287.9	1262.2	1236.9	1213.9	1197.1	1190.0	1188.9
42.5°	1308.9	1312.9	1307.7	1294.4	1272.8	1247.5	1222.0	1199.1	1182.0	1174.3	1173.7
43°	1295.0	1299.0	1293.9	1279.5	1258.7	1232.7	1207.0	1183.8	1166.8	1159.4	1158.7
43.5°	1280.5	1285.3	1279.8	1266.1	1245.1	1218.3	1191.9	1168.7	1151.4	1143.7	1143.7



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	1238.5	1242.8	1237.3	1222.8	1201.7	1173.9	1147.2	1123.3	1105.7	1097.8	1097.6
45.5°	1224.8	1228.7	1223.0	1208.1	1186.4	1159.1	1132.2	1108.1	1090.9	1082.2	1082.3
46°	1210.0	1214.4	1208.9	1193.8	1171.7	1144.0	1116.7	1093.0	1076.2	1066.5	1067.4
46.5°	1195.0	1199.5	1194.1	1179.2	1156.9	1129.0	1101.3	1077.9	1060.1	1052.2	1052.4
47°	1180.4	1185.4	1180.4	1164.6	1142.4	1114.0	1086.4	1062.5	1044.7	1037.0	1036.7
47.5°	1166.3	1170.6	1165.5	1150.6	1128.0	1099.2	1071.8	1046.8	1029.7	1021.8	1021.4
48°	1152.1	1156.2	1150.6	1136.1	1113.4	1084.1	1056.7	1032.1	1015.0	1006.2	1006.9
48.5°	1137.0	1140.9	1135.5	1120.9	1098.2	1069.3	1042.0	1017.1	999.3	991.6	991.9
49°	1122.9	1127.4	1120.6	1105.3	1083.2	1054.4	1026.6	1002.2	984.7	976.2	976.2
49.5°	1107.9	1111.9	1106.9	1091.0	1067.9	1039.2	1011.9	987.1	969.4	961.3	961.7
50°	1092.9	1097.5	1091.5	1076.4	1052.7	1024.0	997.0	972.0	955.3	946.1	946.5
50.5°	1077.6	1082.3	1076.6	1061.8	1038.2	1009.2	981.8	957.0	939.5	931.5	931.2
51°	1062.8	1067.4	1061.2	1045.8	1023.3	994.2	966.9	942.6	925.6	916.5	916.0
51.5°	1047.7	1052.3	1046.3	1031.3	1008.3	979.2	951.5	927.5	910.0	902.8	902.0
52°	1033.0	1037.5	1031.7	1016.1	993.1	964.7	937.1	913.2	895.9	887.2	887.4
52.5°	1017.4	1021.8	1015.7	1000.9	977.9	949.1	922.1	898.4	881.6	873.2	873.0
53°	1002.3	1006.9	1001.1	985.7	962.7	934.2	907.2	883.7	867.2	858.2	857.9
53.5°	987.0	991.3	985.6	970.7	947.5	919.4	892.6	869.3	851.6	844.4	843.4
54°	971.9	975.9	970.6	955.9	932.7	904.4	878.0	854.5	837.8	829.4	829.7
54.5°	956.4	961.0	955.0	940.5	918.1	889.3	862.7	839.8	823.1	815.2	815.1
55°	940.7	945.7	940.2	925.3	902.5	874.2	848.1	825.3	809.2	802.1	800.5
55.5°	925.7	930.2	924.5	910.4	888.0	859.9	833.5	810.6	794.6	787.3	786.1
56°	909.9	914.6	909.5	895.0	873.0	845.6	819.6	796.3	780.8	773.0	772.5
56.5°	894.7	899.5	894.1	879.9	858.1	830.6	804.7	782.4	766.9	759.2	758.6
57°	879.8	883.8	878.5	864.5	842.6	815.8	790.2	768.3	752.4	745.4	744.6
57.5°	863.8	868.9	862.6	849.6	828.2	801.5	775.9	754.0	739.0	731.5	730.6
58°	848.1	852.8	848.3	833.8	812.3	786.9	761.9	740.4	725.1	717.2	717.4
58.5°	833.0	837.5	832.3	819.1	797.9	771.9	747.3	726.1	711.5	703.9	703.5
59°	817.1	822.5	817.0	804.0	783.1	757.5	733.1	712.0	698.3	691.1	689.9
59.5°	801.7	806.3	801.6	788.9	768.3	743.0	719.2	699.0	684.8	678.1	675.8
60°	785.8	790.8	786.6	773.5	753.2	728.6	705.0	685.5	671.5	664.6	662.5
60.5°	770.4	774.9	770.9	758.5	739.3	714.3	691.7	672.4	657.9	651.0	649.2
61°	754.8	759.1	755.4	743.6	724.6	700.4	674.2	658.6	644.4	637.4	635.9
61.5°	739.3	744.4	739.6	727.6	709.3	685.8	660.1	644.7	630.9	623.8	622.6
62°	723.6	728.8	725.1	713.1	694.0	671.1	647.2	631.1	617.3	610.2	609.2
62.5°	708.0	712.7	709.7	698.4	679.9	657.1	634.3	617.4	603.8	596.9	596.0
63°	692.4	697.4	694.0	683.3	665.2	643.0	621.4	603.9	591.0	584.4	583.3
63.5°	677.0	681.5	678.6	667.6	650.5	628.9	608.6	590.8	578.3	571.8	570.9
64°	661.1	665.7	662.7	654.2	635.7	614.8	594.8	578.1	565.7	559.3	558.1
64.5°	645.2	650.0	647.3	649.2	621.5	600.8	581.8	565.0	553.0	546.5	545.2
65°	629.3	634.2	631.9	631.2	608.0	586.8	568.6	552.2	540.4	534.4	532.9
65.5°	613.3	618.4	616.5	613.3	593.3	572.9	555.1	539.5	528.1	521.7	520.3
66°	597.3	602.6	601.1	595.3	578.7	559.4	542.0	526.7	515.9	509.5	508.4



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	550.9	555.8	555.2	548.3	535.8	519.2	503.4	489.9	479.4	473.4	471.8
68°	535.6	540.6	539.9	533.7	521.7	505.9	490.5	477.5	467.7	461.7	460.1
68.5°	519.9	525.1	525.2	518.6	507.6	492.4	478.1	465.2	455.8	450.3	447.7
69°	504.4	509.8	510.1	504.9	493.8	479.1	465.6	453.2	443.5	438.4	436.4
69.5°	489.0	494.9	495.0	490.4	480.4	466.1	453.0	441.0	431.8	426.5	424.7
70°	473.4	479.3	480.2	476.1	466.6	453.2	440.7	428.9	420.3	414.8	413.0
70.5°	458.0	463.9	465.3	461.4	453.3	440.6	428.5	417.4	409.1	403.7	401.4
71°	442.9	448.3	450.4	447.5	439.4	427.6	416.2	405.7	397.8	392.5	390.4
71.5°	427.5	433.5	435.2	432.9	426.0	414.8	404.2	394.3	386.1	381.2	379.3
72°	412.5	418.3	420.9	418.6	412.5	402.2	392.0	382.6	374.8	369.8	367.8
72.5°	397.4	403.1	406.3	404.7	398.9	389.3	380.2	370.9	363.7	359.3	356.8
73°	382.0	388.2	392.0	391.1	386.1	376.8	368.2	359.6	352.8	348.1	345.6
73.5°	366.5	373.4	377.2	377.2	372.8	365.2	356.5	348.4	341.7	337.3	334.8
74°	351.9	358.1	362.8	363.6	359.8	352.7	345.0	337.2	331.2	326.5	324.1
74.5°	337.0	343.7	348.5	349.6	346.9	340.2	333.6	326.3	320.4	316.1	313.9
75°	322.3	329.0	334.3	336.0	334.1	328.2	322.1	315.6	309.8	305.6	303.1
75.5°	307.2	314.6	320.0	322.5	321.5	316.3	310.8	304.6	299.1	295.4	292.7
76°	292.7	299.8	306.0	309.4	308.5	304.3	299.7	294.0	288.9	285.1	282.2
76.5°	278.3	285.8	292.1	296.0	296.2	292.8	288.4	283.3	278.7	275.1	272.2
77°	264.0	271.2	278.4	282.8	284.0	281.3	277.6	272.7	268.5	264.8	261.9
77.5°	249.4	257.3	264.8	269.8	271.8	270.0	266.7	262.5	258.3	255.1	252.1
78°	235.7	243.3	251.1	257.3	259.6	258.8	256.2	252.4	248.8	245.4	242.5
78.5°	221.5	229.7	237.7	244.5	247.8	247.5	245.4	242.3	239.2	235.8	232.9
79°	207.7	216.1	224.8	232.1	236.0	236.4	235.2	232.4	229.4	226.3	223.4
79.5°	194.1	202.2	211.8	219.7	224.4	225.6	225.2	222.7	220.1	217.2	214.1
80°	181.3	189.2	198.8	207.7	213.1	215.0	214.9	213.1	210.8	208.2	205.0
80.5°	168.0	176.3	186.5	195.7	201.9	204.5	205.0	203.8	201.8	198.9	196.0
81°	155.1	163.6	174.2	183.9	190.9	194.3	195.6	194.6	192.9	190.2	187.3
81.5°	142.5	151.1	162.2	172.4	180.1	184.0	186.1	185.8	184.4	181.9	178.7
82°	130.2	138.7	150.2	161.2	169.5	174.3	176.8	177.0	175.8	173.4	170.3
82.5°	117.6	126.9	138.9	150.3	159.1	164.8	167.7	168.3	167.3	165.0	161.9
83°	106.5	115.4	127.4	139.6	149.0	155.4	158.9	159.8	159.1	157.3	154.0
83.5°	95.3	104.2	116.5	129.3	139.4	146.1	150.3	151.7	151.5	149.3	146.2
84°	84.6	93.5	105.9	119.1	129.9	137.3	141.9	143.7	143.5	141.7	138.7
84.5°	74.1	83.0	96.0	109.3	120.6	128.7	133.5	135.9	136.0	134.3	131.3
85°	64.4	73.1	86.1	99.9	111.9	120.3	125.7	128.3	128.7	127.1	124.1
85.5°	56.0	64.1	77.0	91.1	103.3	112.3	118.0	121.0	121.5	120.0	117.1
86°	47.6	56.0	68.0	82.6	95.3	104.6	110.7	113.8	114.5	113.2	110.2
86.5°	39.3	47.8	60.8	74.4	87.4	97.2	103.5	107.1	108.0	106.7	103.8
87°	30.9	39.7	53.6	66.2	80.0	89.9	96.7	100.5	101.5	100.6	97.5
87.5°	23.7	31.6	46.5	59.9	72.8	83.1	90.1	94.1	95.3	94.4	91.5
88°	17.2	24.9	39.4	53.7	65.9	76.6	83.8	87.9	89.4	88.5	85.6
88.5°	11.5	19.0	32.2	47.5	60.4	70.2	77.7	82.1	83.6	82.8	80.1



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	3.7	6.7	17.8	31.2	44.0	54.8	62.6	66.3	68.1	67.3	65.3
90.5°	2.0	5.5	14.3	26.9	39.3	49.9	57.9	62.1	63.9	63.3	61.2
91°	0.4	4.3	11.6	23.1	35.0	45.2	53.3	57.9	59.8	59.3	57.0
91.5°	0.3	3.1	9.4	19.9	31.2	41.0	48.6	53.6	55.7	55.3	52.8
92°	0.3	1.9	7.7	17.1	27.7	37.2	44.4	49.4	51.5	51.3	48.7
92.5°	0.2	1.5	6.8	14.8	24.6	33.7	40.7	45.4	47.5	47.3	45.1
93°	0.2	1.2	6.0	12.8	21.9	30.5	37.4	41.9	44.0	43.9	41.8
93.5°	0.2	1.0	5.2	11.2	19.5	27.6	34.3	38.7	40.8	40.6	38.7
94°	0.3	0.8	4.3	9.9	17.4	25.1	31.4	35.7	37.7	37.8	35.9
94.5°	0.3	0.7	3.9	8.9	15.6	22.7	28.7	32.9	35.0	35.0	33.2
95°	0.4	0.6	3.6	8.1	14.1	20.7	26.4	30.4	32.4	32.5	30.8
95.5°	0.5	0.6	3.2	7.5	12.9	18.9	24.2	28.1	30.1	30.1	28.6
96°	0.6	0.7	2.9	7.1	11.9	17.4	22.4	26.0	27.9	28.0	26.5
96.5°	0.6	0.7	2.6	6.6	11.1	16.1	20.7	24.1	25.9	26.1	24.7
97°	0.7	0.8	2.3	6.1	10.5	14.9	19.2	22.4	24.2	24.4	23.1
97.5°	0.8	0.8	2.1	5.6	9.9	14.0	17.9	20.9	22.6	22.9	21.7
98°	0.8	0.9	2.0	5.3	9.4	13.2	16.9	19.7	21.3	21.5	20.4
98.5°	0.9	0.9	1.8	4.9	8.8	12.6	15.9	18.5	20.0	20.3	19.3
99°	1.0	1.0	1.6	4.6	8.3	12.1	15.1	17.6	19.0	19.2	18.4
99.5°	1.1	1.0	1.5	4.3	7.9	11.5	14.5	16.7	18.1	18.3	17.5
100°	1.2	1.1	1.4	4.0	7.5	11.0	13.9	16.1	17.3	17.6	16.9
100.5°	1.3	1.2	1.4	3.7	7.1	10.4	13.3	15.5	16.7	16.9	16.2
101°	1.5	1.3	1.4	3.4	6.7	9.9	12.8	14.9	16.0	16.3	15.7
101.5°	1.6	1.4	1.4	3.2	6.3	9.5	12.2	14.3	15.5	15.7	15.1
102°	1.7	1.4	1.4	3.0	5.9	9.0	11.7	13.8	14.9	15.2	14.6
102.5°	1.8	1.5	1.4	2.8	5.6	8.6	11.2	13.2	14.4	14.6	14.1
103°	1.9	1.6	1.4	2.6	5.3	8.2	10.7	12.6	13.8	14.1	13.5
103.5°	1.9	1.6	1.4	2.4	4.9	7.7	10.2	12.1	13.3	13.6	13.0
104°	2.0	1.7	1.3	2.2	4.6	7.4	9.8	11.7	12.8	13.0	12.5
104.5°	2.0	1.8	1.3	2.1	4.3	7.0	9.3	11.2	12.3	12.6	12.0
105°	2.0	2.0	1.3	2.0	4.0	6.6	8.9	10.7	11.8	12.1	11.6
105.5°	2.0	2.2	1.3	1.9	3.8	6.3	8.5	10.2	11.4	11.7	11.2
106°	2.0	2.2	1.3	1.8	3.5	5.9	8.1	9.8	11.0	11.2	10.7
106.5°	2.0	2.0	1.3	1.8	3.3	5.6	7.7	9.4	10.5	10.8	10.3
107°	2.0	1.9	1.4	1.7	3.1	5.3	7.4	9.0	10.1	10.4	10.0
107.5°	2.0	1.9	1.4	1.7	3.0	5.0	7.1	8.6	9.7	10.0	9.6
108°	2.0	2.0	1.5	1.7	2.8	4.7	6.7	8.2	9.3	9.6	9.2
108.5°	2.0	2.0	1.5	1.6	2.6	4.5	6.4	7.9	9.0	9.3	8.9
109°	2.0	2.1	1.5	1.6	2.5	4.2	6.0	7.5	8.6	8.9	8.5
109.5°	2.1	2.1	1.5	1.5	2.4	4.0	5.7	7.2	8.2	8.5	8.2
110°	2.1	2.1	1.6	1.5	2.3	3.8	5.4	6.9	7.9	8.2	7.9
110.5°	2.1	2.1	1.6	1.5	2.2	3.6	5.1	6.6	7.6	7.9	7.6
111°	2.1	2.1	1.7	1.5	2.1	3.4	4.9	6.3	7.3	7.5	7.3



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	2.1	2.1	1.8	1.6	2.0	2.9	4.2	5.4	6.3	6.6	6.4
113°	2.1	2.1	1.9	1.7	2.0	2.7	3.9	5.2	6.0	6.3	6.1
113.5°	2.2	2.1	1.9	1.7	1.9	2.6	3.7	4.9	5.7	6.0	5.8
114°	2.2	2.1	2.0	1.7	1.9	2.5	3.5	4.7	5.5	5.7	5.6
114.5°	2.2	2.1	2.0	1.7	1.8	2.5	3.4	4.4	5.2	5.5	5.3
115°	2.3	2.2	2.1	1.8	1.8	2.4	3.2	4.2	5.0	5.3	5.1
115.5°	2.3	2.2	2.1	1.8	1.7	2.4	3.1	4.0	4.8	5.0	4.9
116°	2.3	2.2	2.2	1.8	1.8	2.3	3.0	3.8	4.5	4.8	4.7
116.5°	2.3	2.3	2.3	1.9	1.8	2.3	2.9	3.7	4.3	4.6	4.5
117°	2.3	2.3	2.5	1.9	1.8	2.3	2.8	3.5	4.1	4.4	4.3
117.5°	2.3	2.4	2.6	1.9	1.8	2.2	2.7	3.4	4.0	4.2	4.2
118°	2.3	2.4	2.7	2.0	1.9	2.1	2.7	3.3	3.8	4.1	4.0
118.5°	2.3	2.5	2.8	2.0	1.9	2.0	2.6	3.2	3.7	3.9	3.9
119°	2.3	2.5	2.7	2.1	1.9	2.0	2.6	3.1	3.6	3.8	3.8
119.5°	2.4	2.5	2.7	2.1	2.0	2.0	2.5	3.0	3.5	3.7	3.7
120°	2.4	2.5	2.6	2.1	2.0	2.0	2.5	2.9	3.4	3.6	3.6
120.5°	2.4	2.6	2.6	2.2	2.0	2.0	2.4	2.8	3.3	3.5	3.5
121°	2.4	2.6	2.6	2.2	2.1	2.0	2.3	2.8	3.2	3.4	3.4
121.5°	2.4	2.6	2.6	2.3	2.1	2.1	2.2	2.7	3.1	3.4	3.4
122°	2.5	2.6	2.7	2.3	2.1	2.1	2.1	2.6	3.0	3.3	3.3
122.5°	2.5	2.7	2.7	2.4	2.2	2.1	2.1	2.6	3.0	3.2	3.2
123°	2.5	2.7	2.8	2.4	2.2	2.2	2.1	2.5	2.9	3.2	3.2
123.5°	2.5	2.7	2.8	2.5	2.3	2.2	2.1	2.4	2.9	3.1	3.1
124°	2.6	2.7	2.8	2.6	2.3	2.3	2.2	2.3	2.8	3.0	3.0
124.5°	2.6	2.8	2.9	2.6	2.4	2.3	2.2	2.3	2.7	3.0	3.0
125°	2.6	2.8	2.9	2.7	2.4	2.3	2.2	2.3	2.6	2.9	2.9
125.5°	2.6	2.8	2.9	2.8	2.5	2.4	2.2	2.3	2.6	2.8	2.9
126°	2.7	2.8	2.9	2.9	2.5	2.4	2.3	2.3	2.6	2.8	2.9
126.5°	2.7	2.8	2.9	3.0	2.5	2.4	2.3	2.4	2.6	2.8	2.9
127°	2.7	2.8	2.9	3.1	2.6	2.5	2.4	2.4	2.6	2.8	2.9
127.5°	2.7	2.8	2.9	3.2	2.6	2.5	2.4	2.5	2.7	2.9	3.0
128°	2.8	2.8	2.9	3.3	2.7	2.5	2.5	2.5	2.7	2.9	3.0
128.5°	2.8	2.8	2.9	3.3	2.7	2.6	2.5	2.6	2.8	2.9	3.1
129°	2.8	2.8	2.8	3.3	2.8	2.6	2.6	2.7	2.8	3.0	3.1
129.5°	2.8	2.8	2.8	3.3	2.8	2.7	2.6	2.7	2.9	3.1	3.2
130°	2.8	2.8	2.8	3.3	2.9	2.7	2.7	2.8	2.9	3.1	3.2
130.5°	2.9	2.9	2.8	3.3	3.0	2.8	2.8	2.9	3.0	3.1	3.3
131°	2.9	2.9	2.8	3.3	3.0	2.8	2.8	2.9	3.1	3.2	3.3
131.5°	2.9	2.9	2.9	3.4	3.1	2.9	2.9	3.0	3.1	3.2	3.3
132°	2.9	2.9	2.9	3.4	3.2	3.0	2.9	3.0	3.1	3.3	3.4
132.5°	2.9	2.9	2.9	3.5	3.3	3.0	3.0	3.1	3.2	3.3	3.4
133°	2.9	3.0	2.9	3.5	3.4	3.1	3.1	3.2	3.2	3.4	3.5
133.5°	2.9	3.0	3.0	3.6	3.5	3.2	3.1	3.2	3.3	3.4	3.6



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	3.0	3.1	3.1	3.7	3.9	3.4	3.4	3.4	3.4	3.6	3.7
135.5°	3.0	3.1	3.1	3.7	3.9	3.5	3.4	3.5	3.5	3.6	3.8
136°	2.9	3.1	3.1	3.6	3.9	3.6	3.5	3.5	3.6	3.7	3.8
136.5°	2.9	3.1	3.2	3.6	3.9	3.6	3.6	3.6	3.6	3.7	3.9
137°	2.9	3.1	3.2	3.6	3.9	3.7	3.6	3.6	3.7	3.8	4.0
137.5°	3.0	3.1	3.3	3.5	3.9	3.9	3.7	3.7	3.7	3.8	4.0
138°	3.0	3.2	3.3	3.5	4.0	4.0	3.8	3.8	3.8	3.9	4.1
138.5°	3.0	3.3	3.3	3.5	4.0	4.1	3.8	3.8	3.8	3.9	4.1
139°	3.0	3.3	3.3	3.4	4.0	4.3	3.9	3.9	3.9	4.0	4.2
139.5°	3.0	3.3	3.3	3.4	4.1	4.4	3.9	3.9	3.9	4.0	4.3
140°	3.0	3.4	3.4	3.4	4.1	4.4	4.0	4.0	4.0	4.1	4.3
140.5°	3.0	3.4	3.4	3.4	4.1	4.4	4.1	4.0	4.0	4.2	4.4
141°	3.1	3.4	3.4	3.4	4.2	4.4	4.2	4.1	4.1	4.2	4.5
141.5°	3.0	3.4	3.4	3.4	4.2	4.5	4.3	4.1	4.2	4.3	4.6
142°	3.0	3.5	3.4	3.4	4.1	4.5	4.4	4.2	4.2	4.4	4.6
142.5°	3.0	3.5	3.4	3.3	4.1	4.5	4.6	4.3	4.3	4.4	4.7
143°	3.1	3.5	3.5	3.3	4.1	4.5	4.7	4.3	4.4	4.5	4.8
143.5°	3.1	3.5	3.5	3.3	4.0	4.5	4.8	4.4	4.4	4.6	4.9
144°	3.1	3.5	3.5	3.3	4.0	4.5	4.8	4.6	4.5	4.7	5.0
144.5°	3.1	3.5	3.5	3.3	3.9	4.5	4.8	4.7	4.6	4.8	5.0
145°	3.1	3.5	3.5	3.3	3.9	4.5	4.8	4.9	4.7	4.8	5.1
145.5°	3.0	3.5	3.6	3.3	3.8	4.5	4.8	5.0	4.8	4.9	5.2
146°	3.0	3.6	3.6	3.3	3.8	4.5	4.8	5.0	5.0	5.0	5.4
146.5°	3.0	3.6	3.6	3.3	3.8	4.5	4.7	5.1	5.2	5.2	5.5
147°	3.0	3.6	3.6	3.3	3.7	4.4	4.7	5.0	5.3	5.4	5.7
147.5°	3.0	3.6	3.6	3.3	3.7	4.4	4.6	5.0	5.3	5.5	5.7
148°	3.0	3.6	3.6	3.3	3.6	4.4	4.6	5.0	5.2	5.5	5.7
148.5°	3.0	3.6	3.6	3.3	3.6	4.4	4.7	5.0	5.2	5.5	5.7
149°	3.0	3.5	3.6	3.3	3.6	4.3	4.7	5.0	5.2	5.5	5.7
149.5°	2.9	3.5	3.6	3.3	3.5	4.3	4.7	4.9	5.3	5.5	5.7
150°	3.0	3.5	3.6	3.3	3.5	4.2	4.6	4.9	5.3	5.4	5.6
150.5°	3.0	3.5	3.6	3.4	3.5	4.1	4.6	4.9	5.2	5.4	5.5
151°	2.8	3.5	3.6	3.4	3.4	4.1	4.6	4.9	5.2	5.3	5.5
151.5°	2.7	3.4	3.6	3.4	3.4	4.0	4.6	4.9	5.1	5.2	5.5
152°	2.7	3.4	3.6	3.4	3.4	3.9	4.5	4.9	5.1	5.2	5.5
152.5°	2.7	3.3	3.6	3.4	3.4	3.8	4.4	4.9	5.1	5.2	5.5
153°	2.6	3.3	3.6	3.5	3.4	3.8	4.3	4.8	5.1	5.2	5.4
153.5°	2.4	3.3	3.6	3.5	3.4	3.7	4.3	4.7	5.0	5.2	5.3
154°	2.3	3.2	3.6	3.5	3.4	3.7	4.2	4.6	4.9	5.1	5.2
154.5°	2.2	3.1	3.7	3.5	3.5	3.7	4.1	4.6	4.8	5.0	5.1
155°	2.2	3.1	3.7	3.5	3.5	3.6	4.0	4.5	4.7	4.9	5.0
155.5°	2.3	3.1	3.7	3.6	3.5	3.6	3.9	4.4	4.6	4.8	4.9
156°	2.1	3.2	3.7	3.6	3.5	3.6	3.9	4.3	4.5	4.7	4.8



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	2.0	3.1	3.7	3.6	3.6	3.6	3.7	4.0	4.3	4.4	4.4
158°	2.0	3.1	3.7	3.6	3.7	3.7	3.7	3.9	4.2	4.3	4.4
158.5°	2.0	3.2	3.7	3.7	3.7	3.7	3.7	3.9	4.1	4.2	4.3
159°	2.0	3.1	3.7	3.7	3.7	3.7	3.7	3.8	4.0	4.1	4.2
159.5°	2.0	3.0	3.6	3.7	3.8	3.8	3.7	3.8	3.9	4.0	4.1
160°	2.0	3.0	3.6	3.7	3.8	3.8	3.7	3.8	3.9	4.0	4.0
160.5°	2.0	3.0	3.6	3.7	3.8	3.8	3.8	3.8	3.9	3.9	4.0
161°	2.0	3.0	3.5	3.7	3.8	3.9	3.8	3.8	3.8	3.9	4.0
161.5°	2.1	3.0	3.5	3.7	3.9	3.9	3.8	3.8	3.8	3.9	4.0
162°	2.1	2.9	3.5	3.7	3.9	3.9	3.9	3.8	3.8	3.9	3.9
162.5°	2.1	2.9	3.5	3.7	3.9	4.0	3.9	3.9	3.9	3.9	3.9
163°	2.1	2.8	3.5	3.7	3.9	4.0	3.9	3.9	3.9	3.9	4.0
163.5°	2.1	2.8	3.5	3.7	3.9	4.0	4.0	3.9	3.9	3.9	4.0
164°	2.1	2.7	3.5	3.7	3.9	4.0	4.0	4.0	3.9	3.9	4.0
164.5°	2.1	2.5	3.5	3.7	3.9	4.0	4.0	4.0	4.0	4.0	4.0
165°	2.1	2.5	3.4	3.7	3.9	4.1	4.0	4.0	4.0	4.0	4.0
165.5°	2.1	2.5	3.4	3.6	4.0	4.1	4.1	4.0	4.0	4.0	4.1
166°	2.1	2.6	3.4	3.6	4.0	4.1	4.1	4.1	4.1	4.0	4.1
166.5°	2.2	2.6	3.5	3.5	3.9	4.1	4.1	4.1	4.1	4.1	4.1
167°	2.2	2.6	3.4	3.6	3.9	4.1	4.1	4.1	4.1	4.1	4.2
167.5°	2.2	2.7	3.2	3.5	3.8	4.1	4.2	4.2	4.2	4.1	4.2
168°	2.2	2.7	3.3	3.3	3.9	4.1	4.2	4.2	4.2	4.2	4.2
168.5°	2.2	2.5	3.4	3.3	3.9	4.1	4.2	4.2	4.2	4.2	4.2
169°	2.3	2.3	3.2	3.5	3.8	4.1	4.2	4.2	4.2	4.2	4.3
169.5°	2.3	2.6	2.8	3.5	3.5	3.9	4.2	4.2	4.3	4.2	4.3
170°	2.4	2.8	2.9	3.4	3.5	3.9	4.1	4.2	4.3	4.3	4.3
170.5°	2.7	2.7	3.2	3.2	3.8	4.0	4.1	4.2	4.3	4.3	4.3
171°	3.0	2.8	3.3	3.3	3.7	3.8	4.1	4.2	4.2	4.2	4.2
171.5°	3.1	3.1	3.1	3.3	3.3	3.4	4.0	4.2	4.2	4.2	4.2
172°	3.1	3.2	3.1	3.2	3.4	3.3	3.9	4.1	4.2	4.2	4.2
172.5°	3.3	3.2	3.2	3.2	3.4	3.7	3.8	4.1	4.1	4.1	4.1
173°	3.2	3.2	3.3	3.3	3.3	3.6	3.8	4.0	4.0	4.0	4.1
173.5°	3.2	3.3	3.4	3.3	3.3	3.4	3.8	3.9	4.0	4.0	4.0
174°	3.3	3.3	3.4	3.2	3.4	3.5	3.6	3.9	3.9	3.9	4.0
174.5°	3.4	3.5	3.5	3.3	3.2	3.4	3.4	3.8	3.9	3.9	3.9
175°	3.5	3.5	3.6	3.4	3.2	3.3	3.6	3.8	3.9	3.9	3.9
175.5°	3.6	3.6	3.6	3.4	3.3	3.2	3.5	3.8	3.9	3.9	3.8
176°	3.6	3.6	3.6	3.5	3.1	3.1	3.3	3.7	3.9	3.9	3.8
176.5°	3.6	3.6	3.6	3.6	3.3	3.2	3.3	3.6	3.8	3.9	3.8
177°	3.6	3.6	3.7	3.6	3.4	3.2	3.4	3.6	3.7	3.7	3.7
177.5°	3.6	3.6	3.6	3.5	3.3	3.1	3.3	3.5	3.6	3.7	3.6
178°	3.6	3.6	3.6	3.5	3.3	3.1	3.1	3.3	3.5	3.7	3.5
178.5°	3.6	3.6	3.6	3.4	3.1	2.9	2.9	3.2	3.5	3.6	3.5



TEST NUMBER: P563542
CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

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: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6
0.5°	1922.0	1921.9	1921.8	1921.6	1921.4	1921.2	1920.9	1920.8	1920.8	1920.8	1920.8
1°	1922.0	1922.2	1922.4	1922.6	1922.4	1922.0	1921.5	1921.0	1920.6	1920.3	1920.3
1.5°	1922.5	1922.3	1921.8	1920.9	1920.3	1920.3	1920.3	1920.1	1919.6	1919.3	1919.3
2°	1922.4	1921.0	1919.4	1919.4	1919.3	1918.6	1918.4	1918.5	1918.1	1917.9	1917.9
2.5°	1920.9	1920.7	1920.9	1919.7	1919.6	1919.2	1918.0	1917.8	1917.4	1917.2	1916.7
3°	1920.1	1919.7	1919.3	1918.4	1918.5	1918.1	1917.7	1917.0	1915.5	1914.2	1914.6
3.5°	1918.6	1918.2	1918.1	1918.2	1917.3	1915.9	1915.6	1915.9	1913.6	1912.8	1912.5
4°	1918.2	1917.3	1916.6	1916.6	1916.3	1915.3	1913.9	1914.4	1913.1	1911.5	1910.3
4.5°	1914.7	1915.8	1913.9	1915.1	1915.2	1913.8	1912.3	1911.4	1910.7	1909.4	1908.4
5°	1913.9	1913.9	1913.5	1912.6	1913.0	1912.3	1910.9	1909.8	1909.0	1907.8	1905.4
5.5°	1912.8	1912.0	1911.6	1910.5	1911.0	1909.6	1909.3	1908.0	1907.3	1905.8	1903.1
6°	1910.6	1909.7	1908.9	1908.5	1908.2	1907.5	1907.0	1905.6	1904.5	1903.5	1900.1
6.5°	1907.9	1907.2	1906.7	1906.0	1905.4	1906.2	1904.9	1903.2	1901.1	1900.9	1897.5
7°	1905.5	1904.3	1904.9	1903.6	1903.3	1903.4	1902.6	1900.1	1898.1	1897.2	1894.9
7.5°	1902.3	1901.5	1901.7	1901.7	1900.2	1900.3	1899.2	1898.0	1895.0	1894.5	1892.3
8°	1899.3	1898.9	1898.4	1898.5	1897.9	1897.9	1895.5	1894.2	1892.1	1891.3	1888.2
8.5°	1895.4	1895.5	1894.9	1894.6	1895.1	1894.0	1893.8	1891.2	1889.9	1887.6	1884.9
9°	1891.6	1892.0	1891.6	1891.5	1892.1	1890.5	1889.9	1888.6	1885.6	1883.8	1881.3
9.5°	1888.5	1888.6	1887.6	1887.8	1887.9	1887.6	1885.7	1884.2	1881.2	1879.7	1876.6
10°	1884.3	1884.4	1883.6	1884.7	1884.1	1882.5	1882.6	1880.7	1877.7	1875.8	1872.4
10.5°	1880.0	1880.5	1878.7	1880.7	1880.1	1879.1	1879.1	1877.1	1874.3	1870.9	1868.4
11°	1874.8	1876.4	1875.6	1877.1	1876.3	1875.7	1875.2	1873.1	1869.8	1866.2	1863.4
11.5°	1869.9	1871.6	1870.6	1872.0	1871.9	1872.0	1870.5	1868.1	1864.7	1862.2	1858.3
12°	1865.2	1866.2	1865.9	1866.8	1867.9	1866.9	1866.0	1863.7	1860.7	1857.9	1853.4
12.5°	1860.2	1861.5	1861.3	1861.7	1863.3	1862.2	1861.2	1859.3	1856.4	1852.1	1848.9
13°	1854.9	1856.2	1855.6	1856.2	1857.6	1857.1	1856.9	1854.7	1852.0	1846.9	1843.8
13.5°	1848.8	1849.6	1849.7	1851.4	1852.3	1851.9	1851.8	1849.6	1845.9	1841.4	1837.2
14°	1842.5	1843.9	1844.8	1846.3	1847.2	1846.9	1846.5	1845.0	1840.4	1836.1	1831.4
14.5°	1836.2	1837.8	1839.0	1840.4	1841.9	1841.8	1841.2	1839.2	1835.8	1830.1	1825.4
15°	1829.7	1832.2	1832.8	1834.6	1836.9	1835.9	1835.9	1833.1	1830.3	1823.4	1819.3
15.5°	1823.0	1826.3	1827.1	1828.9	1831.1	1829.8	1830.5	1827.3	1823.8	1817.8	1813.1
16°	1815.8	1819.0	1820.4	1822.3	1824.5	1824.3	1824.3	1822.0	1817.6	1812.5	1807.0
16.5°	1809.0	1812.3	1813.7	1815.7	1817.9	1818.4	1817.8	1816.3	1812.0	1806.1	1799.9
17°	1801.6	1804.7	1806.5	1808.9	1811.8	1811.7	1811.6	1810.1	1805.5	1799.2	1792.4
17.5°	1794.0	1797.9	1799.8	1802.0	1805.7	1805.7	1806.4	1803.3	1798.7	1792.6	1785.5
18°	1786.7	1789.5	1792.8	1796.0	1798.5	1798.7	1799.1	1796.2	1791.6	1785.6	1778.0
18.5°	1778.4	1781.1	1785.6	1788.4	1791.6	1791.4	1791.4	1789.8	1784.7	1777.8	1770.0
19°	1769.7	1773.0	1777.4	1780.2	1784.4	1784.9	1784.9	1782.9	1778.3	1770.3	1762.8
19.5°	1761.1	1764.9	1769.2	1773.2	1776.7	1777.3	1777.8	1775.5	1770.8	1763.0	1754.7
20°	1753.4	1757.4	1761.5	1765.5	1768.9	1770.3	1770.3	1768.4	1763.4	1755.3	1746.7
20.5°	1744.6	1748.5	1753.5	1756.9	1761.7	1762.4	1762.5	1761.2	1755.9	1747.5	1738.4
21°	1735.2	1740.4	1744.4	1748.6	1753.2	1755.2	1755.2	1753.1	1748.0	1739.1	1730.1



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1706.7	1711.4	1717.5	1723.7	1728.4	1731.1	1731.0	1728.3	1723.2	1713.4	1704.3
23°	1696.7	1702.0	1708.6	1714.5	1719.7	1722.2	1722.4	1719.7	1714.8	1705.3	1694.5
23.5°	1686.6	1692.1	1698.8	1704.6	1711.4	1714.1	1714.3	1711.7	1706.0	1697.0	1685.4
24°	1675.9	1682.7	1688.7	1695.6	1701.8	1704.9	1705.4	1703.2	1697.5	1687.8	1676.1
24.5°	1665.5	1672.0	1679.2	1685.9	1692.4	1696.1	1697.1	1694.3	1688.3	1678.3	1666.5
25°	1655.3	1661.5	1669.4	1676.3	1683.0	1687.1	1688.4	1685.3	1679.1	1668.5	1656.4
25.5°	1644.3	1651.3	1658.8	1666.1	1673.2	1677.6	1678.7	1675.9	1669.8	1659.1	1646.9
26°	1633.3	1640.6	1648.6	1655.7	1663.7	1667.8	1668.8	1667.1	1660.5	1649.2	1636.6
26.5°	1622.1	1629.1	1637.6	1645.5	1654.3	1658.8	1659.4	1657.4	1650.4	1639.6	1626.3
27°	1610.3	1618.4	1626.8	1635.3	1643.5	1648.6	1649.7	1647.1	1640.9	1629.5	1616.0
27.5°	1599.0	1606.6	1615.9	1624.6	1633.8	1638.3	1639.5	1637.4	1630.9	1619.4	1605.2
28°	1586.8	1595.6	1604.2	1614.3	1623.0	1627.7	1629.2	1627.4	1620.6	1609.0	1594.2
28.5°	1574.9	1583.5	1593.4	1603.3	1611.9	1617.7	1619.3	1617.5	1610.3	1598.3	1584.0
29°	1562.7	1571.7	1582.2	1591.4	1601.8	1607.9	1609.3	1606.9	1599.9	1587.8	1572.7
29.5°	1549.8	1558.8	1570.2	1580.1	1590.7	1596.3	1599.2	1596.4	1588.9	1576.9	1561.1
30°	1537.9	1547.4	1558.5	1569.2	1579.5	1586.6	1587.6	1585.7	1577.8	1565.8	1550.0
30.5°	1525.2	1533.9	1546.4	1558.0	1568.2	1575.1	1576.4	1574.3	1568.0	1554.5	1538.3
31°	1511.4	1522.3	1534.5	1545.7	1557.1	1563.3	1566.2	1564.3	1556.5	1542.8	1526.8
31.5°	1498.2	1509.7	1522.1	1533.4	1545.9	1552.6	1554.8	1552.6	1544.7	1532.1	1515.1
32°	1485.3	1496.4	1509.3	1522.0	1533.5	1540.9	1543.0	1541.5	1534.1	1520.3	1503.1
32.5°	1472.0	1483.9	1497.2	1509.7	1521.4	1529.5	1531.9	1530.4	1522.1	1508.7	1491.3
33°	1458.5	1470.2	1484.5	1497.4	1510.3	1517.4	1520.6	1518.3	1510.8	1496.9	1478.5
33.5°	1444.8	1457.1	1471.3	1485.3	1497.7	1505.8	1508.2	1507.0	1499.0	1484.6	1466.2
34°	1431.2	1443.6	1458.4	1472.5	1484.7	1493.7	1496.5	1495.7	1487.1	1472.6	1454.0
34.5°	1417.9	1430.0	1445.2	1459.5	1472.7	1482.1	1484.8	1483.3	1474.5	1460.8	1442.9
35°	1403.6	1415.9	1431.8	1446.2	1460.6	1469.3	1472.9	1471.1	1462.8	1448.4	1430.8
35.5°	1388.7	1402.7	1418.3	1433.3	1447.8	1456.2	1460.4	1458.8	1450.6	1436.7	1417.2
36°	1374.4	1388.5	1404.8	1420.7	1434.4	1444.4	1448.1	1447.1	1438.6	1423.5	1403.7
36.5°	1360.2	1374.1	1391.3	1407.6	1421.8	1432.1	1435.7	1434.8	1425.5	1410.3	1390.2
37°	1345.8	1360.3	1377.4	1393.2	1409.4	1419.5	1423.0	1421.7	1412.6	1397.2	1376.8
37.5°	1331.6	1345.7	1363.5	1380.4	1395.8	1406.5	1410.1	1408.7	1399.6	1384.1	1363.4
38°	1316.8	1331.8	1349.9	1367.1	1382.9	1393.1	1397.1	1395.7	1386.6	1371.0	1350.0
38.5°	1302.6	1316.8	1336.1	1353.0	1368.4	1379.7	1384.2	1382.7	1373.6	1357.8	1336.2
39°	1287.7	1302.9	1321.5	1339.0	1355.4	1366.2	1370.8	1369.5	1360.2	1344.4	1323.0
39.5°	1273.3	1288.2	1307.2	1325.2	1341.7	1352.9	1357.2	1355.8	1346.6	1331.2	1308.9
40°	1258.0	1273.3	1292.7	1311.2	1328.0	1339.7	1344.1	1342.5	1333.4	1317.4	1295.3
40.5°	1242.5	1258.6	1277.7	1297.6	1313.8	1326.1	1330.5	1328.6	1319.9	1304.0	1281.5
41°	1227.3	1243.4	1263.6	1282.8	1300.3	1311.8	1316.5	1315.3	1306.2	1290.6	1267.7
41.5°	1212.9	1228.8	1249.1	1268.3	1285.8	1298.0	1303.0	1301.6	1292.9	1276.0	1253.1
42°	1198.1	1214.7	1234.5	1254.1	1271.7	1283.8	1288.5	1288.3	1278.5	1261.5	1238.9
42.5°	1183.1	1199.5	1219.9	1239.8	1257.2	1269.7	1274.9	1274.0	1264.9	1248.0	1224.3
43°	1168.0	1183.5	1204.8	1225.2	1243.2	1256.6	1260.8	1259.9	1250.5	1234.0	1211.3
43.5°	1152.2	1169.3	1190.3	1210.7	1229.2	1241.7	1246.7	1245.7	1236.1	1219.7	1196.5



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1107.3	1124.1	1145.6	1166.4	1186.0	1198.6	1203.4	1202.9	1193.7	1176.1	1152.7
45.5°	1091.6	1108.5	1130.6	1151.8	1170.4	1183.3	1189.4	1188.5	1178.5	1161.5	1138.0
46°	1076.3	1093.2	1115.5	1136.7	1155.6	1169.4	1174.3	1173.7	1163.7	1147.2	1123.4
46.5°	1061.0	1078.6	1099.8	1121.6	1140.5	1154.1	1159.5	1158.7	1149.2	1132.6	1108.8
47°	1046.0	1062.7	1084.8	1107.0	1126.3	1140.0	1145.2	1144.1	1134.4	1117.6	1093.8
47.5°	1030.8	1048.6	1069.7	1091.6	1111.5	1125.3	1129.5	1129.4	1119.8	1102.7	1078.9
48°	1015.6	1032.5	1054.6	1076.6	1096.4	1110.2	1114.9	1114.0	1105.0	1088.1	1064.1
48.5°	1000.6	1017.6	1040.2	1061.9	1080.6	1094.6	1099.7	1099.4	1090.0	1073.0	1048.7
49°	985.2	1002.8	1025.2	1046.6	1066.5	1079.9	1085.0	1084.6	1075.4	1057.9	1034.2
49.5°	970.6	987.8	1009.9	1031.3	1050.7	1065.4	1070.4	1069.4	1060.0	1042.8	1019.5
50°	955.7	972.1	994.7	1015.8	1036.4	1050.1	1055.3	1054.5	1045.0	1028.1	1004.2
50.5°	940.7	957.3	979.4	1001.3	1020.9	1035.0	1040.1	1039.2	1030.2	1012.8	988.8
51°	925.4	942.4	964.4	986.5	1006.1	1019.5	1024.5	1023.9	1014.3	997.6	973.9
51.5°	911.0	928.2	949.2	971.2	990.4	1004.9	1009.2	1008.8	999.4	982.9	958.8
52°	896.2	912.5	934.3	955.6	975.6	988.6	994.4	993.6	984.2	967.0	943.6
52.5°	881.7	897.8	919.3	940.6	960.1	973.8	979.3	979.7	968.8	951.6	928.5
53°	867.1	883.1	904.1	925.7	945.2	958.3	964.9	964.3	953.4	936.6	913.6
53.5°	852.3	868.7	889.5	910.4	930.1	943.5	951.0	947.2	938.2	921.8	898.4
54°	837.7	852.7	874.8	895.2	914.8	927.8	934.6	931.7	922.4	906.1	883.6
54.5°	823.5	838.8	859.6	880.4	899.0	913.0	917.6	916.5	907.2	891.1	868.6
55°	808.6	824.5	844.9	865.4	884.1	897.3	902.1	900.7	891.7	875.8	853.2
55.5°	794.0	810.0	830.5	850.4	868.6	882.1	886.2	885.0	875.9	860.3	837.9
56°	779.8	795.2	815.5	835.1	853.4	866.0	870.7	871.3	860.9	844.9	823.0
56.5°	765.8	780.8	800.6	820.2	838.2	850.6	856.1	855.6	845.7	829.6	807.9
57°	752.0	766.4	785.5	805.4	823.0	835.4	842.5	838.1	830.5	814.4	792.9
57.5°	737.7	752.4	770.9	791.0	807.7	820.2	826.2	823.0	813.9	798.9	777.9
58°	723.6	738.1	756.9	776.0	792.2	804.7	808.2	807.4	798.5	783.6	762.7
58.5°	710.0	723.7	742.0	760.4	776.9	788.9	792.8	792.1	782.9	768.8	747.6
59°	696.4	709.5	727.1	745.2	762.2	773.5	777.6	776.7	767.8	753.0	732.4
59.5°	682.4	695.9	712.9	730.6	747.1	759.0	763.3	760.0	751.9	737.5	717.9
60°	669.1	682.1	698.5	716.2	733.0	743.7	747.2	744.6	736.5	722.4	702.3
60.5°	655.6	668.1	684.5	701.4	718.2	727.4	730.1	729.1	720.4	706.9	687.6
61°	642.0	654.2	670.7	686.8	702.1	711.2	714.1	713.7	705.1	691.4	672.8
61.5°	628.5	640.3	656.3	672.9	686.3	696.3	699.1	697.4	689.0	675.9	657.4
62°	615.0	626.3	642.0	658.0	675.8	682.6	684.6	682.0	673.4	661.0	642.6
62.5°	601.4	612.3	627.6	643.7	659.8	677.5	664.6	665.9	658.2	645.7	627.6
63°	588.1	598.9	613.1	628.5	645.0	658.7	649.2	650.7	642.9	630.3	613.4
63.5°	575.3	585.6	598.9	613.3	628.3	640.5	634.2	634.8	626.6	615.2	598.6
64°	562.6	572.3	585.0	598.4	611.5	622.3	619.1	618.7	611.5	600.1	583.7
64.5°	549.7	558.8	571.3	584.0	596.1	604.1	603.9	603.2	596.0	584.7	568.8
65°	537.0	545.9	557.9	570.0	580.8	587.9	588.5	587.9	580.7	569.4	554.7
65.5°	524.3	533.0	544.1	555.6	565.9	572.2	573.6	572.0	565.1	554.5	539.9
66°	511.6	520.0	530.3	541.7	551.1	558.4	558.2	556.4	549.8	539.5	525.2



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	475.0	481.4	491.0	499.9	507.5	511.7	511.2	509.9	503.6	494.5	482.2
68°	462.6	469.0	477.7	485.8	492.7	496.9	495.6	494.6	488.3	479.4	467.4
68.5°	450.6	456.4	464.2	471.9	478.3	481.7	480.9	479.0	472.7	464.4	453.5
69°	438.5	443.7	451.3	458.0	463.6	466.8	465.3	463.4	457.3	449.9	439.2
69.5°	426.3	431.1	438.3	444.6	449.8	452.2	450.2	447.7	442.4	435.2	425.4
70°	414.2	419.1	425.5	431.3	435.5	436.9	434.5	432.8	427.4	420.4	411.2
70.5°	402.9	407.0	412.9	417.7	421.2	421.9	419.5	417.5	411.8	406.0	397.1
71°	391.5	395.1	400.2	404.5	407.1	407.4	404.1	402.4	397.3	391.0	383.0
71.5°	379.7	383.3	387.5	391.0	393.1	392.6	389.1	387.1	382.1	376.7	369.5
72°	368.2	371.3	374.9	377.9	379.2	378.1	374.3	372.0	367.1	362.2	355.8
72.5°	357.0	359.2	362.6	364.6	365.7	363.8	359.4	356.8	352.2	348.1	342.3
73°	345.6	347.4	350.2	351.7	352.1	349.3	344.5	341.8	337.4	333.7	328.4
73.5°	334.5	335.8	338.0	338.9	338.4	335.1	329.9	327.0	322.9	319.6	315.2
74°	323.8	324.5	326.2	326.4	324.8	320.9	315.2	312.3	308.6	305.5	301.8
74.5°	312.8	313.3	314.2	313.7	311.3	306.9	300.5	297.4	294.0	291.4	289.0
75°	301.8	301.9	302.2	300.7	297.9	292.9	286.3	283.0	279.9	277.8	276.0
75.5°	291.3	290.8	290.5	288.5	284.9	279.1	272.1	268.6	265.4	264.4	263.3
76°	280.8	279.9	278.8	276.2	272.0	265.4	257.9	254.3	251.5	250.9	250.2
76.5°	270.4	268.9	267.4	263.9	259.2	252.0	243.6	240.0	237.7	237.7	238.0
77°	260.0	258.2	256.3	252.4	246.4	238.5	230.1	226.1	224.0	224.4	225.6
77.5°	249.8	247.7	245.1	240.5	233.8	225.3	216.3	212.4	210.3	211.8	213.6
78°	239.9	237.4	234.0	228.8	221.5	212.4	203.0	198.7	197.1	198.8	201.1
78.5°	230.1	227.1	223.3	217.4	209.5	199.6	189.8	185.4	184.0	186.3	189.8
79°	220.5	217.1	212.6	206.1	197.6	187.1	176.9	172.8	171.6	174.7	178.9
79.5°	210.9	207.1	202.2	194.7	185.9	174.7	163.9	160.1	159.3	163.2	168.0
80°	201.5	197.5	192.0	184.1	174.3	162.4	151.5	147.5	146.9	151.6	157.1
80.5°	192.4	187.9	181.9	173.1	162.9	150.9	139.4	134.9	134.6	140.0	146.2
81°	183.6	178.7	172.1	163.0	152.0	139.4	127.6	122.8	122.9	128.4	135.4
81.5°	174.8	169.5	162.5	152.7	141.4	128.2	115.9	110.6	111.7	117.5	125.2
82°	166.0	160.5	153.2	143.1	130.8	117.2	104.7	99.2	100.5	106.9	115.2
82.5°	157.6	151.9	144.1	133.3	120.7	106.7	94.1	88.7	89.8	96.8	105.8
83°	149.6	143.4	135.3	124.2	111.0	96.5	83.6	78.1	79.8	87.3	96.7
83.5°	141.6	135.3	126.7	115.3	101.6	86.9	73.8	68.3	70.4	77.9	87.9
84°	133.8	127.4	118.5	106.6	92.6	77.5	64.4	58.7	60.9	69.0	79.6
84.5°	126.5	119.6	110.4	98.0	83.9	68.6	56.4	49.8	52.2	60.6	71.7
85°	119.1	112.2	102.5	90.3	75.7	61.4	48.5	41.4	43.9	52.9	64.3
85.5°	112.0	104.9	95.2	82.7	68.1	54.2	40.5	33.6	36.4	45.6	57.3
86°	105.2	98.1	88.2	75.5	61.8	47.0	32.6	27.9	29.5	39.1	50.9
86.5°	98.7	91.5	81.4	68.8	55.5	39.8	25.7	22.2	24.9	32.9	44.8
87°	92.4	85.1	74.8	63.2	49.2	32.7	19.9	16.6	20.3	27.6	39.2
87.5°	86.3	78.8	69.0	57.6	43.0	27.1	14.8	10.9	15.7	24.1	34.2
88°	80.5	73.1	63.7	52.0	36.7	22.3	10.6	5.3	11.1	20.6	29.7
88.5°	74.9	67.3	58.7	46.4	31.8	18.2	7.4	2.4	6.8	17.1	25.8



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	60.7	53.6	43.9	32.4	20.3	9.4	3.3	0.7	2.9	8.6	18.1
90.5°	56.5	49.1	39.8	28.7	17.3	7.6	2.0	0.6	2.4	7.4	16.0
91°	52.1	45.0	36.0	25.5	14.9	6.7	1.5	0.4	2.1	6.5	13.9
91.5°	48.0	41.3	32.6	22.6	12.8	5.9	1.2	0.3	1.9	5.8	11.8
92°	44.3	37.8	29.4	20.1	11.2	5.1	1.0	0.3	1.7	5.4	10.7
92.5°	40.8	34.6	26.7	17.9	9.8	4.2	0.8	0.4	1.6	5.1	9.9
93°	37.7	31.7	24.2	16.0	8.8	3.8	0.7	0.5	1.4	4.7	9.3
93.5°	34.8	29.1	21.9	14.4	8.0	3.4	0.6	0.5	1.3	4.5	8.9
94°	32.1	26.6	19.9	13.1	7.4	3.1	0.6	0.6	1.3	4.4	8.5
94.5°	29.6	24.5	18.2	12.0	7.0	2.9	0.6	0.7	1.3	4.3	8.1
95°	27.4	22.5	16.8	11.2	6.6	2.6	0.7	0.7	1.3	4.3	7.8
95.5°	25.3	20.8	15.5	10.5	6.1	2.4	0.8	0.8	1.3	4.2	7.6
96°	23.5	19.3	14.5	9.9	5.7	2.2	0.9	0.9	1.3	4.1	7.4
96.5°	21.9	18.0	13.6	9.4	5.4	2.1	1.0	1.0	1.3	3.9	7.2
97°	20.5	16.9	12.9	9.0	5.1	2.0	1.1	1.1	1.3	3.8	7.1
97.5°	19.2	16.0	12.3	8.6	4.8	1.9	1.2	1.2	1.3	3.6	7.0
98°	18.2	15.2	11.8	8.1	4.5	1.8	1.3	1.3	1.3	3.5	6.9
98.5°	17.3	14.5	11.3	7.7	4.3	1.7	1.4	1.5	1.4	3.4	6.8
99°	16.5	14.0	10.8	7.3	4.1	1.7	1.5	1.6	1.5	3.4	6.7
99.5°	15.9	13.4	10.4	7.0	3.8	1.6	1.6	1.8	1.6	3.4	6.5
100°	15.3	12.9	9.9	6.6	3.6	1.6	1.7	2.0	1.8	3.4	6.4
100.5°	14.7	12.4	9.5	6.3	3.4	1.6	1.7	2.1	1.9	3.4	6.2
101°	14.2	11.9	9.1	5.9	3.2	1.6	1.8	2.3	2.0	3.3	6.1
101.5°	13.6	11.4	8.7	5.6	3.0	1.6	1.9	2.4	2.1	3.2	5.9
102°	13.1	11.0	8.3	5.3	2.9	1.6	2.0	2.4	2.2	3.1	5.8
102.5°	12.6	10.5	7.9	5.1	2.7	1.6	2.1	2.5	2.3	3.0	5.7
103°	12.1	10.1	7.6	4.9	2.6	1.7	2.3	2.6	2.3	2.9	5.6
103.5°	11.7	9.7	7.3	4.6	2.5	1.8	2.3	2.6	2.4	2.8	5.5
104°	11.2	9.3	7.0	4.4	2.4	1.9	2.4	2.7	2.5	2.8	5.3
104.5°	10.8	8.9	6.7	4.2	2.4	2.1	2.5	2.7	2.6	2.7	5.2
105°	10.4	8.6	6.4	4.0	2.4	2.2	2.7	2.9	2.7	2.7	5.1
105.5°	10.0	8.2	6.1	3.8	2.3	2.2	3.1	3.0	2.8	2.7	4.9
106°	9.6	7.9	5.8	3.6	2.3	2.3	3.5	3.0	2.9	2.7	4.7
106.5°	9.2	7.6	5.6	3.5	2.3	2.3	3.8	3.1	3.2	2.6	4.5
107°	8.8	7.3	5.3	3.3	2.3	2.4	4.2	3.2	3.6	2.5	4.4
107.5°	8.5	7.0	5.0	3.2	2.3	2.4	4.2	3.3	3.8	2.5	4.2
108°	8.1	6.6	4.8	3.1	2.3	2.5	4.2	3.3	3.8	2.6	4.1
108.5°	7.8	6.3	4.6	3.0	2.4	2.6	4.1	3.3	3.7	2.6	4.0
109°	7.5	6.0	4.4	2.9	2.4	2.6	4.0	3.4	3.7	2.7	3.9
109.5°	7.2	5.8	4.2	2.8	2.5	2.7	4.0	3.4	3.8	2.8	3.8
110°	6.9	5.5	4.0	2.7	2.6	2.8	3.9	3.5	3.8	2.9	3.7
110.5°	6.6	5.3	3.8	2.6	2.6	2.9	3.9	3.5	3.9	2.9	3.6
111°	6.3	5.0	3.7	2.6	2.6	3.1	3.9	3.6	4.0	3.0	3.6



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	5.6	4.4	3.3	2.6	2.7	3.5	4.0	3.7	4.3	3.2	3.5
113°	5.3	4.2	3.2	2.6	2.8	3.7	4.1	3.7	4.4	3.3	3.4
113.5°	5.1	4.1	3.1	2.6	2.8	3.9	4.1	3.8	4.5	3.3	3.3
114°	4.9	4.0	3.1	2.6	2.9	4.1	4.2	3.8	4.6	3.4	3.2
114.5°	4.7	3.9	3.1	2.6	3.1	4.3	4.3	3.8	4.6	3.4	3.1
115°	4.5	3.8	3.1	2.7	3.2	4.4	4.3	3.8	4.6	3.5	2.9
115.5°	4.4	3.7	3.0	2.8	3.3	4.6	4.3	3.8	4.7	3.5	2.9
116°	4.2	3.6	3.0	2.9	3.4	4.8	4.4	3.8	4.7	3.6	3.0
116.5°	4.1	3.5	2.9	3.0	3.5	4.9	4.4	3.8	4.8	3.7	3.0
117°	3.9	3.5	2.9	3.0	3.6	5.0	4.5	3.8	4.8	3.8	3.1
117.5°	3.8	3.4	2.9	3.1	3.7	5.0	4.5	3.8	4.9	3.9	3.2
118°	3.7	3.3	2.9	3.2	3.8	5.0	4.6	3.9	4.9	4.0	3.2
118.5°	3.6	3.3	2.9	3.3	3.9	5.2	4.7	3.9	5.0	4.0	3.3
119°	3.5	3.2	2.9	3.4	4.0	5.4	4.7	3.9	5.0	4.1	3.3
119.5°	3.5	3.1	3.0	3.5	4.1	5.6	4.8	3.9	5.0	4.2	3.4
120°	3.4	3.1	3.0	3.6	4.2	5.7	4.8	3.9	5.0	4.4	3.5
120.5°	3.3	3.0	3.1	3.7	4.3	5.8	4.8	3.9	5.1	4.5	3.6
121°	3.3	3.0	3.1	3.7	4.4	5.9	4.8	3.9	5.1	4.6	3.7
121.5°	3.2	3.0	3.2	3.8	4.4	5.9	4.8	3.9	5.1	4.6	3.8
122°	3.1	3.0	3.3	3.9	4.6	6.0	4.8	3.9	5.1	4.6	3.8
122.5°	3.1	3.0	3.4	3.9	4.7	5.9	4.8	3.9	5.1	4.6	3.9
123°	3.0	3.0	3.4	4.0	4.8	5.8	4.8	3.9	5.2	4.6	3.9
123.5°	3.0	3.0	3.5	4.1	4.9	5.7	4.7	3.9	5.2	4.7	4.0
124°	3.0	3.1	3.6	4.1	5.0	5.6	4.7	3.9	5.2	4.7	4.0
124.5°	3.0	3.1	3.7	4.2	5.1	5.5	4.6	3.9	5.2	4.8	4.1
125°	3.0	3.2	3.7	4.3	5.3	5.5	4.6	3.9	5.2	4.8	4.1
125.5°	3.0	3.3	3.8	4.4	5.5	5.4	4.6	3.9	5.2	4.9	4.2
126°	3.0	3.3	3.9	4.4	5.7	5.4	4.5	3.9	5.2	4.9	4.2
126.5°	3.1	3.4	3.9	4.5	5.8	5.3	4.5	3.9	5.2	5.0	4.3
127°	3.1	3.4	4.0	4.6	5.8	5.2	4.5	3.9	5.2	5.0	4.3
127.5°	3.2	3.5	4.1	4.7	5.8	5.2	4.5	3.9	5.2	5.1	4.4
128°	3.2	3.6	4.1	4.8	5.9	5.2	4.5	4.0	5.2	5.1	4.4
128.5°	3.2	3.6	4.2	4.9	6.0	5.1	4.5	3.9	5.2	5.0	4.5
129°	3.3	3.7	4.3	5.0	6.1	5.1	4.4	3.9	5.2	5.0	4.7
129.5°	3.4	3.7	4.3	5.2	6.2	5.1	4.4	3.9	5.2	5.1	4.9
130°	3.4	3.8	4.4	5.3	6.2	5.1	4.4	4.0	5.2	5.1	5.0
130.5°	3.5	3.9	4.5	5.3	6.3	5.1	4.4	4.0	5.2	5.2	5.0
131°	3.5	3.9	4.5	5.4	6.3	5.1	4.4	4.0	5.2	5.2	5.0
131.5°	3.6	4.0	4.6	5.5	6.4	5.1	4.4	4.0	5.2	5.3	4.9
132°	3.6	4.1	4.7	5.6	6.4	5.1	4.4	4.0	5.2	5.3	4.9
132.5°	3.7	4.1	4.8	5.7	6.4	5.1	4.4	4.0	5.2	5.3	4.9
133°	3.7	4.2	4.9	5.9	6.4	5.0	4.4	4.0	5.2	5.3	4.9
133.5°	3.8	4.3	4.9	6.0	6.4	5.0	4.4	4.0	5.1	5.3	4.9



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	4.0	4.5	5.3	6.4	6.1	4.9	4.4	4.1	5.1	5.4	4.9
135.5°	4.1	4.6	5.3	6.4	6.1	4.9	4.4	4.1	5.1	5.4	4.9
136°	4.1	4.6	5.4	6.4	6.1	4.9	4.4	4.1	5.1	5.4	4.9
136.5°	4.2	4.7	5.5	6.5	6.0	4.9	4.4	4.1	5.1	5.4	5.0
137°	4.3	4.8	5.6	6.5	5.9	4.9	4.5	4.1	5.0	5.4	5.0
137.5°	4.3	4.9	5.6	6.6	5.8	4.9	4.5	4.1	5.0	5.4	5.0
138°	4.4	5.0	5.8	6.6	5.8	4.9	4.5	4.1	5.0	5.3	5.0
138.5°	4.5	5.1	5.9	6.6	5.7	4.9	4.5	4.1	4.8	5.3	5.0
139°	4.6	5.2	6.0	6.6	5.6	4.9	4.5	4.1	4.7	5.3	5.0
139.5°	4.6	5.2	6.1	6.6	5.5	4.9	4.6	4.1	4.8	5.3	5.0
140°	4.7	5.3	6.2	6.6	5.4	4.9	4.6	4.1	4.9	5.3	5.0
140.5°	4.8	5.3	6.3	6.5	5.4	4.9	4.6	4.0	4.9	5.4	5.1
141°	4.9	5.4	6.3	6.4	5.3	5.0	4.5	4.0	4.8	5.5	5.0
141.5°	5.0	5.5	6.3	6.3	5.2	5.0	4.5	4.0	4.8	5.5	5.0
142°	5.0	5.7	6.4	6.2	5.1	5.0	4.6	4.0	4.8	5.5	5.0
142.5°	5.1	5.8	6.4	6.1	5.1	5.0	4.6	3.9	4.8	5.5	5.0
143°	5.1	6.0	6.5	6.1	5.0	5.0	4.5	3.8	4.8	5.4	4.9
143.5°	5.2	6.1	6.5	6.0	5.0	5.0	4.4	3.8	4.8	5.2	4.9
144°	5.4	6.1	6.4	5.9	5.0	5.0	4.5	3.9	4.8	5.2	5.0
144.5°	5.5	6.1	6.4	5.8	4.9	4.9	4.5	4.0	4.7	5.4	5.1
145°	5.7	6.1	6.3	5.6	4.9	4.8	4.5	4.0	4.7	5.5	5.1
145.5°	5.8	6.2	6.2	5.6	4.9	4.9	4.6	3.9	4.6	5.5	5.0
146°	5.9	6.1	6.1	5.4	4.8	4.9	4.5	3.9	4.6	5.5	5.0
146.5°	5.9	6.1	6.0	5.3	4.8	4.9	4.5	3.9	4.6	5.5	5.1
147°	5.9	6.1	5.9	5.2	4.8	4.9	4.5	3.9	4.5	5.5	5.2
147.5°	5.9	6.0	5.8	5.1	4.7	4.8	4.3	3.9	4.6	5.4	5.2
148°	5.9	6.0	5.7	5.0	4.7	4.6	4.3	4.0	4.6	5.4	5.3
148.5°	5.8	6.0	5.6	4.9	4.7	4.6	4.4	4.0	4.5	5.4	5.3
149°	5.8	5.9	5.5	4.8	4.7	4.7	4.4	4.0	4.4	5.4	5.3
149.5°	5.8	5.8	5.4	4.8	4.6	4.7	4.4	3.9	4.5	5.3	5.3
150°	5.7	5.7	5.3	4.7	4.6	4.7	4.4	4.0	4.5	5.3	5.3
150.5°	5.7	5.6	5.1	4.6	4.6	4.6	4.4	4.0	4.4	5.3	5.3
151°	5.7	5.5	5.0	4.6	4.5	4.6	4.3	4.0	4.4	5.2	5.2
151.5°	5.7	5.4	4.9	4.5	4.5	4.6	4.3	4.0	4.4	5.2	5.1
152°	5.6	5.3	4.8	4.5	4.5	4.6	4.3	4.0	4.3	5.1	5.3
152.5°	5.5	5.1	4.7	4.4	4.6	4.6	4.2	4.0	4.1	5.0	5.4
153°	5.3	5.0	4.6	4.4	4.6	4.6	4.2	3.9	3.9	5.0	5.4
153.5°	5.2	4.9	4.5	4.4	4.5	4.5	4.2	3.8	3.8	4.9	5.4
154°	5.1	4.8	4.4	4.3	4.5	4.5	4.2	3.7	3.8	4.8	5.3
154.5°	5.0	4.7	4.4	4.3	4.5	4.5	4.2	3.7	3.7	4.6	5.2
155°	4.8	4.6	4.3	4.3	4.5	4.3	4.2	3.7	3.6	4.4	5.0
155.5°	4.7	4.5	4.2	4.3	4.4	4.2	4.1	3.6	3.6	4.2	4.8
156°	4.6	4.4	4.2	4.3	4.3	4.1	4.0	3.4	3.6	4.1	4.6



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	4.3	4.2	4.1	4.3	4.2	4.1	3.4	3.4	3.5	4.0	4.6
158°	4.3	4.1	4.1	4.3	4.4	4.1	3.3	3.4	3.5	3.9	4.5
158.5°	4.2	4.1	4.1	4.3	4.4	4.0	3.3	3.4	3.5	3.9	4.4
159°	4.1	4.1	4.1	4.3	4.3	4.0	3.3	3.4	3.5	3.8	4.3
159.5°	4.1	4.0	4.1	4.2	4.2	3.9	3.3	3.4	3.4	3.8	4.2
160°	4.0	4.0	4.1	4.1	4.1	4.0	3.3	3.3	3.4	3.8	4.2
160.5°	4.0	4.1	4.1	4.1	4.1	4.0	3.3	3.3	3.4	3.7	4.2
161°	4.0	4.1	4.2	4.1	4.2	3.9	3.3	3.3	3.4	3.7	4.1
161.5°	4.0	4.1	4.2	4.2	4.2	3.6	3.3	3.3	3.4	3.6	4.0
162°	4.0	4.1	4.2	4.3	4.1	3.4	3.3	3.3	3.4	3.6	4.0
162.5°	4.0	4.1	4.2	4.3	4.0	3.3	3.3	3.3	3.4	3.6	3.9
163°	4.0	4.1	4.2	4.3	4.0	3.3	3.3	3.3	3.4	3.5	3.9
163.5°	4.0	4.1	4.3	4.3	3.7	3.3	3.3	3.2	3.4	3.5	3.9
164°	4.1	4.2	4.3	4.1	3.4	3.2	3.2	3.2	3.4	3.5	3.8
164.5°	4.1	4.2	4.3	4.1	3.4	3.2	3.2	3.2	3.4	3.5	3.8
165°	4.1	4.2	4.3	4.1	3.4	3.2	3.2	3.2	3.4	3.5	3.7
165.5°	4.1	4.2	4.3	4.0	3.3	3.2	3.2	3.2	3.4	3.4	3.7
166°	4.2	4.3	4.3	4.0	3.3	3.2	3.2	3.2	3.3	3.4	3.7
166.5°	4.2	4.3	4.3	3.9	3.3	3.2	3.3	3.2	3.3	3.4	3.7
167°	4.2	4.3	4.2	3.8	3.3	3.2	3.3	3.2	3.3	3.4	3.7
167.5°	4.3	4.3	4.2	3.5	3.3	3.2	3.3	3.2	3.3	3.4	3.6
168°	4.3	4.3	4.1	3.4	3.3	3.3	3.3	3.3	3.3	3.4	3.6
168.5°	4.3	4.3	4.0	3.4	3.3	3.3	3.3	3.3	3.3	3.4	3.6
169°	4.3	4.3	3.9	3.4	3.2	3.3	3.3	3.3	3.3	3.4	3.5
169.5°	4.3	4.2	3.9	3.3	3.3	3.3	3.4	3.3	3.3	3.5	3.5
170°	4.3	4.2	3.9	3.3	3.3	3.4	3.6	3.5	3.3	3.5	3.7
170.5°	4.3	4.1	3.5	3.3	3.3	3.5	3.7	3.7	3.3	3.7	4.0
171°	4.2	4.0	3.3	3.2	3.3	3.6	3.8	3.7	3.4	4.0	4.0
171.5°	4.2	3.9	3.3	3.2	3.3	3.6	3.8	3.7	3.7	4.0	4.0
172°	4.1	3.8	3.3	3.2	3.4	3.8	3.8	3.7	3.7	3.9	4.0
172.5°	4.0	3.7	3.2	3.2	3.5	3.9	3.8	3.8	3.7	3.9	4.0
173°	3.9	3.7	3.3	3.2	3.5	3.8	3.8	3.8	3.7	3.9	4.0
173.5°	3.9	3.6	3.2	3.2	3.5	3.8	3.8	3.8	3.8	3.8	4.0
174°	3.8	3.3	3.1	3.3	3.5	3.8	3.8	3.8	3.8	3.8	3.9
174.5°	3.7	3.2	3.1	3.3	3.7	3.8	3.8	3.8	3.8	3.8	3.9
175°	3.7	3.2	3.2	3.3	3.8	3.9	3.8	3.8	3.8	3.8	3.8
175.5°	3.6	3.3	3.2	3.4	3.7	3.8	3.8	3.8	3.8	3.8	3.8
176°	3.6	3.3	3.3	3.4	3.7	3.8	3.8	3.8	3.8	3.8	3.8
176.5°	3.6	3.4	3.3	3.4	3.6	3.8	3.8	3.8	3.8	3.8	3.8
177°	3.6	3.4	3.3	3.4	3.7	3.9	3.8	3.8	3.8	3.8	3.8
177.5°	3.5	3.3	3.2	3.4	3.7	3.8	3.8	3.7	3.7	3.7	3.7
178°	3.3	3.1	3.1	3.2	3.4	3.6	3.7	3.7	3.6	3.6	3.6
178.5°	3.3	3.1	3.1	3.2	3.3	3.4	3.5	3.5	3.6	3.6	3.6



TEST NUMBER: P563542
CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

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: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6	1921.6
0.5°	1920.9	1920.9	1920.9	1921.0	1921.0	1921.0	1921.1	1921.1	1921.1	1921.2	1921.2
1°	1920.3	1920.3	1920.0	1919.6	1919.2	1919.0	1919.2	1919.6	1920.0	1920.4	1920.7
1.5°	1919.3	1919.3	1919.3	1919.1	1919.0	1918.9	1919.1	1919.4	1919.6	1919.8	1920.1
2°	1917.6	1917.6	1917.4	1917.1	1916.8	1916.7	1917.0	1917.4	1918.0	1918.5	1918.6
2.5°	1916.5	1916.3	1915.5	1914.7	1914.8	1915.1	1915.1	1915.3	1915.9	1916.8	1917.3
3°	1914.7	1914.4	1913.4	1913.1	1913.3	1913.6	1913.5	1913.5	1914.1	1914.9	1915.1
3.5°	1911.7	1911.5	1911.3	1910.6	1910.8	1911.5	1911.8	1912.1	1912.6	1913.2	1913.9
4°	1910.2	1910.0	1909.2	1908.5	1908.8	1909.4	1909.8	1909.9	1910.0	1910.8	1911.5
4.5°	1907.2	1906.8	1906.7	1906.7	1906.5	1906.2	1906.5	1907.0	1907.4	1908.6	1910.0
5°	1904.9	1904.6	1903.5	1903.1	1902.5	1902.2	1903.0	1904.0	1905.2	1906.7	1908.4
5.5°	1902.5	1901.5	1900.8	1900.1	1899.8	1900.2	1900.2	1901.0	1902.5	1904.4	1906.2
6°	1898.9	1898.2	1897.6	1897.1	1896.9	1896.5	1896.5	1897.2	1899.0	1900.4	1902.8
6.5°	1895.6	1894.3	1893.7	1893.2	1892.9	1893.2	1893.2	1894.3	1895.9	1897.6	1900.2
7°	1892.9	1891.6	1890.0	1889.1	1889.3	1889.7	1890.1	1891.0	1892.9	1894.2	1897.7
7.5°	1889.7	1888.3	1886.1	1885.5	1884.8	1884.0	1885.0	1886.6	1888.5	1890.8	1893.9
8°	1885.3	1884.2	1882.3	1881.0	1880.3	1880.4	1881.0	1882.6	1884.4	1886.6	1890.2
8.5°	1881.1	1879.0	1877.9	1876.7	1875.7	1876.1	1876.4	1878.2	1880.6	1882.8	1886.4
9°	1876.4	1874.6	1873.3	1871.7	1871.4	1871.4	1871.4	1873.1	1876.0	1879.3	1883.5
9.5°	1872.5	1870.4	1867.9	1866.8	1866.3	1866.0	1866.3	1868.3	1871.2	1874.7	1879.3
10°	1869.2	1865.7	1863.3	1861.6	1861.1	1861.1	1860.9	1863.1	1866.6	1870.3	1874.6
10.5°	1863.8	1860.9	1857.9	1855.9	1855.1	1854.3	1855.7	1858.2	1861.4	1865.6	1870.8
11°	1858.4	1855.4	1852.4	1850.6	1849.6	1849.4	1849.9	1852.1	1856.1	1860.1	1865.7
11.5°	1853.0	1849.7	1846.6	1844.5	1843.7	1842.9	1844.1	1846.4	1850.5	1855.9	1860.1
12°	1848.4	1843.9	1840.5	1838.6	1837.2	1836.8	1838.4	1841.2	1845.0	1850.9	1856.3
12.5°	1843.1	1838.3	1834.9	1832.7	1831.3	1829.9	1831.9	1834.7	1838.9	1844.6	1851.5
13°	1837.4	1832.1	1828.4	1825.7	1823.5	1823.0	1825.3	1828.1	1832.2	1838.7	1845.2
13.5°	1830.7	1825.4	1821.6	1818.6	1816.5	1816.3	1818.3	1820.9	1825.9	1832.2	1839.9
14°	1825.0	1819.2	1814.9	1811.7	1809.4	1810.1	1810.8	1814.2	1819.8	1827.0	1833.2
14.5°	1818.5	1812.1	1808.1	1804.9	1801.5	1802.0	1804.1	1807.1	1812.8	1820.3	1827.6
15°	1811.9	1805.4	1801.2	1797.1	1794.9	1794.5	1796.3	1800.2	1805.3	1813.1	1821.1
15.5°	1805.6	1798.8	1793.3	1789.1	1787.4	1786.3	1788.3	1792.3	1798.5	1806.2	1814.7
16°	1798.7	1791.7	1785.5	1780.9	1778.2	1778.0	1779.8	1784.3	1790.6	1798.7	1807.5
16.5°	1791.4	1784.1	1777.9	1772.9	1770.4	1770.6	1772.2	1776.2	1783.2	1791.4	1800.3
17°	1784.2	1776.4	1770.3	1765.2	1762.5	1761.9	1763.8	1768.0	1775.2	1784.6	1793.3
17.5°	1776.6	1768.6	1762.2	1756.8	1753.7	1752.9	1755.5	1759.4	1766.7	1776.6	1786.8
18°	1768.7	1760.3	1753.6	1747.8	1744.5	1743.4	1745.4	1751.5	1758.8	1768.5	1779.3
18.5°	1760.7	1752.3	1744.5	1738.2	1735.5	1735.0	1737.0	1742.7	1751.0	1760.5	1771.4
19°	1753.3	1743.3	1735.3	1729.2	1727.0	1724.9	1727.0	1733.1	1741.2	1751.9	1762.6
19.5°	1744.1	1734.4	1726.3	1719.8	1717.2	1715.5	1718.0	1723.5	1732.1	1743.8	1755.0
20°	1736.2	1726.2	1717.4	1710.4	1706.7	1706.0	1709.1	1714.4	1723.5	1735.1	1747.9
20.5°	1727.7	1717.0	1708.1	1700.6	1696.2	1695.8	1698.9	1705.3	1714.4	1726.4	1739.7
21°	1718.5	1708.0	1698.5	1690.5	1685.8	1685.7	1688.7	1695.1	1705.1	1717.7	1730.5



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1691.1	1678.6	1668.2	1660.2	1654.3	1653.4	1656.1	1663.1	1674.5	1689.5	1703.5
23°	1682.0	1668.7	1658.2	1649.3	1643.7	1643.3	1645.5	1653.0	1664.7	1679.6	1695.0
23.5°	1672.0	1658.1	1647.1	1638.3	1633.3	1631.3	1634.2	1641.9	1654.3	1669.2	1685.2
24°	1662.3	1648.0	1636.2	1626.2	1621.5	1619.4	1622.2	1631.2	1643.2	1658.8	1675.0
24.5°	1652.2	1637.8	1624.9	1614.8	1610.0	1607.3	1611.4	1620.9	1633.2	1648.6	1665.4
25°	1643.2	1627.2	1614.8	1604.0	1598.9	1595.8	1599.9	1609.6	1622.3	1638.2	1655.1
25.5°	1631.6	1616.1	1603.5	1592.3	1586.1	1584.1	1587.9	1597.2	1610.5	1627.2	1645.4
26°	1621.0	1604.9	1591.4	1580.8	1574.6	1571.9	1576.1	1585.4	1599.9	1617.0	1635.4
26.5°	1610.4	1594.0	1579.5	1568.7	1562.7	1559.7	1563.2	1573.6	1588.1	1606.0	1624.4
27°	1600.2	1583.4	1568.1	1556.0	1549.7	1547.9	1551.2	1561.2	1576.5	1594.4	1613.7
27.5°	1589.0	1570.9	1556.1	1543.4	1536.3	1535.6	1539.0	1548.8	1564.3	1583.7	1602.5
28°	1577.2	1559.4	1544.2	1531.0	1524.4	1522.4	1526.7	1537.6	1553.0	1572.0	1592.2
28.5°	1566.4	1548.4	1532.2	1519.4	1511.8	1509.3	1513.3	1524.7	1540.9	1560.0	1580.0
29°	1555.1	1536.0	1519.7	1506.0	1498.4	1497.2	1501.3	1511.3	1527.6	1547.8	1568.9
29.5°	1543.5	1523.6	1507.1	1493.2	1485.7	1483.2	1486.7	1498.6	1515.6	1536.6	1558.2
30°	1531.6	1511.3	1494.4	1480.3	1472.0	1469.9	1474.5	1486.1	1503.3	1524.8	1546.5
30.5°	1519.5	1499.3	1481.7	1467.1	1459.4	1456.5	1460.9	1472.7	1490.2	1512.0	1534.4
31°	1507.5	1486.8	1468.8	1454.1	1446.0	1443.0	1448.0	1459.9	1477.5	1499.5	1523.0
31.5°	1495.2	1474.2	1455.9	1440.6	1432.0	1429.1	1434.2	1446.8	1465.0	1487.5	1510.6
32°	1482.6	1461.8	1443.0	1426.7	1418.0	1415.1	1420.3	1433.0	1452.3	1475.0	1498.7
32.5°	1471.0	1449.0	1429.5	1412.7	1404.0	1401.1	1406.5	1419.1	1439.1	1462.6	1486.3
33°	1458.1	1435.6	1416.1	1398.6	1390.1	1387.2	1392.6	1405.2	1425.4	1449.9	1474.3
33.5°	1444.9	1422.2	1402.7	1384.5	1376.1	1373.2	1378.8	1391.4	1411.7	1436.9	1461.8
34°	1433.9	1409.0	1389.4	1371.3	1361.2	1359.0	1363.8	1377.4	1398.1	1423.6	1449.2
34.5°	1420.4	1395.7	1375.8	1358.0	1347.4	1344.2	1349.8	1364.0	1384.5	1410.4	1437.0
35°	1406.9	1382.1	1360.9	1343.8	1333.2	1329.7	1335.8	1350.2	1370.9	1397.1	1424.1
35.5°	1393.6	1368.6	1347.1	1329.7	1319.0	1315.5	1321.4	1336.2	1356.8	1383.8	1411.1
36°	1380.2	1355.3	1333.5	1314.7	1303.9	1300.8	1306.6	1320.6	1342.8	1370.5	1398.1
36.5°	1366.6	1341.3	1318.4	1300.2	1288.9	1286.3	1292.0	1306.8	1328.5	1356.0	1385.1
37°	1353.0	1326.6	1304.5	1286.1	1274.1	1270.9	1277.0	1292.7	1314.5	1342.1	1371.5
37.5°	1339.3	1312.7	1290.2	1271.6	1260.4	1256.3	1262.6	1277.7	1299.8	1328.0	1358.0
38°	1325.1	1298.4	1275.4	1256.1	1244.7	1242.2	1247.4	1263.4	1286.0	1314.2	1343.5
38.5°	1311.3	1284.5	1261.0	1241.8	1230.2	1226.3	1233.0	1248.6	1271.6	1300.3	1329.9
39°	1297.5	1270.5	1246.3	1226.8	1215.5	1211.9	1218.5	1234.2	1257.1	1286.2	1316.3
39.5°	1283.3	1256.5	1232.1	1212.1	1200.9	1196.7	1202.8	1219.0	1242.4	1271.8	1302.6
40°	1269.6	1241.7	1217.5	1197.6	1185.4	1181.9	1188.3	1204.3	1227.7	1257.5	1288.6
40.5°	1255.5	1227.2	1202.8	1182.5	1170.2	1166.8	1172.6	1188.9	1213.8	1243.2	1274.9
41°	1241.3	1212.6	1187.9	1167.1	1155.3	1151.6	1158.4	1174.7	1198.6	1228.9	1260.4
41.5°	1226.8	1198.3	1173.3	1152.7	1140.3	1136.9	1142.8	1159.8	1184.2	1214.5	1246.3
42°	1212.2	1183.4	1158.1	1137.8	1124.8	1121.5	1128.3	1144.4	1169.3	1199.6	1232.7
42.5°	1198.3	1169.3	1143.3	1122.7	1110.0	1106.7	1113.0	1129.8	1155.0	1184.7	1217.5
43°	1184.1	1154.1	1128.8	1107.7	1094.4	1091.9	1098.4	1115.0	1140.1	1170.7	1203.6
43.5°	1169.2	1139.7	1113.8	1092.3	1080.1	1076.4	1083.0	1099.5	1124.4	1156.3	1189.0



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	1125.1	1094.6	1068.5	1047.6	1035.3	1031.0	1037.4	1054.8	1079.5	1111.9	1145.6
45.5°	1110.5	1080.2	1054.3	1032.5	1020.0	1016.2	1023.0	1040.0	1064.9	1096.9	1130.6
46°	1095.7	1065.5	1038.9	1017.8	1004.8	1001.8	1008.2	1025.4	1050.6	1082.1	1116.2
46.5°	1080.8	1050.6	1024.2	1002.8	990.0	986.7	993.1	1010.7	1035.9	1067.3	1101.1
47°	1066.2	1035.3	1009.1	987.9	974.7	971.6	978.4	995.2	1020.7	1052.4	1086.9
47.5°	1051.0	1020.6	994.6	973.1	960.1	957.1	963.5	980.5	1005.7	1037.6	1071.8
48°	1035.7	1006.1	979.0	958.1	945.6	941.8	948.2	965.4	990.8	1022.5	1056.7
48.5°	1020.8	991.0	964.7	943.6	931.1	927.2	934.0	950.7	975.9	1007.8	1041.5
49°	1006.2	975.9	949.8	929.1	915.9	912.4	919.6	936.4	961.8	993.5	1026.7
49.5°	992.0	961.1	935.4	914.4	901.1	898.5	904.7	921.7	946.4	978.4	1012.3
50°	975.8	946.3	920.2	899.4	886.6	883.5	890.6	906.7	932.3	963.2	997.7
50.5°	961.7	931.4	904.8	884.6	872.6	869.2	875.2	891.8	917.2	948.3	982.5
51°	946.5	916.2	890.8	870.4	857.8	855.4	861.2	877.6	902.1	933.5	968.0
51.5°	931.3	901.6	876.4	856.1	843.4	840.7	847.2	863.7	888.0	919.0	952.7
52°	916.0	887.4	861.9	841.9	829.2	826.3	832.8	849.6	873.6	904.9	937.9
52.5°	901.3	872.6	847.4	827.3	815.3	812.9	818.5	835.1	859.4	890.0	923.0
53°	886.5	857.9	832.5	812.8	801.0	798.8	804.6	820.7	844.8	875.2	908.3
53.5°	871.7	843.2	817.9	798.7	786.8	784.3	791.0	806.2	830.5	860.6	894.2
54°	857.0	828.7	803.5	784.7	772.9	769.7	776.2	791.8	815.9	845.9	879.1
54.5°	842.1	813.7	789.2	770.4	758.9	756.5	762.9	777.9	801.7	831.2	863.8
55°	827.1	798.7	775.1	756.7	744.9	742.5	748.7	764.1	787.3	817.1	849.0
55.5°	812.8	784.6	760.9	742.5	731.8	729.2	735.3	750.1	773.1	802.5	833.9
56°	797.6	770.1	746.5	728.8	717.9	715.7	721.6	736.0	758.8	788.1	819.6
56.5°	782.7	755.3	732.8	715.2	703.8	701.6	708.1	722.6	745.1	773.6	804.6
57°	768.1	741.2	718.5	701.3	690.6	688.7	694.6	709.3	730.8	759.0	790.0
57.5°	752.9	727.1	704.9	687.4	677.0	674.9	680.5	695.1	717.1	744.6	775.1
58°	738.4	712.6	690.8	673.9	664.2	661.9	667.7	681.5	703.0	730.1	760.6
58.5°	723.5	698.8	677.1	660.4	650.7	648.9	654.5	668.1	689.5	716.2	746.4
59°	709.1	684.6	663.1	647.2	637.2	635.5	641.1	654.9	675.6	702.2	731.8
59.5°	694.6	670.1	649.9	633.7	623.9	622.3	628.7	641.6	662.2	687.9	717.2
60°	679.9	656.4	636.5	620.2	611.5	609.9	615.2	628.2	648.4	674.0	702.2
60.5°	665.6	642.3	622.7	607.1	598.3	596.6	602.1	614.9	635.0	660.0	687.4
61°	650.8	628.5	609.1	594.0	585.3	584.0	589.1	602.0	621.4	646.0	673.5
61.5°	636.5	614.6	595.9	581.6	573.4	571.4	576.8	589.2	608.3	632.1	658.7
62°	621.7	600.8	582.9	568.3	560.1	558.9	564.0	576.5	594.8	618.5	644.4
62.5°	607.9	587.1	569.4	555.4	547.3	546.6	551.4	563.5	581.7	604.8	630.2
63°	593.8	573.6	555.9	542.5	535.1	533.9	538.9	550.6	568.4	591.0	615.9
63.5°	579.8	559.8	542.8	529.9	522.9	521.7	526.6	538.0	555.4	577.7	602.1
64°	565.2	546.3	530.6	517.5	510.6	509.6	514.1	525.6	542.2	564.1	587.7
64.5°	551.2	532.9	517.3	504.9	498.0	497.5	502.1	512.9	529.3	550.4	573.8
65°	537.3	519.5	504.4	492.7	486.3	485.3	490.1	500.7	516.7	537.1	559.7
65.5°	523.3	506.3	492.1	480.5	474.1	473.3	478.1	488.4	504.2	523.7	545.8
66°	509.8	493.2	479.6	467.9	461.8	461.2	465.5	475.8	491.2	510.6	531.7



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	467.9	453.5	441.3	432.0	426.8	426.2	430.5	439.8	453.5	471.1	489.9
68°	454.3	440.8	429.0	419.9	415.3	415.0	419.0	428.0	441.0	458.2	476.8
68.5°	441.1	427.8	416.8	408.3	403.9	403.2	407.4	416.4	429.0	445.4	463.4
69°	427.6	415.0	404.8	396.7	392.4	392.2	395.9	404.6	416.8	432.5	450.1
69.5°	414.1	402.4	392.6	384.9	380.6	380.6	384.4	392.9	404.6	419.6	436.3
70°	401.1	389.9	380.8	373.2	369.7	369.8	373.4	381.2	392.5	406.8	422.8
70.5°	387.4	377.4	368.7	362.2	358.7	358.9	362.4	369.7	380.5	394.5	409.2
71°	374.4	365.0	357.2	350.9	347.7	347.8	351.2	358.4	368.8	381.8	396.5
71.5°	361.6	352.7	345.4	339.7	336.6	336.8	340.4	347.1	357.2	369.5	383.1
72°	348.7	340.6	333.9	328.6	325.9	326.5	329.6	336.1	345.6	357.4	370.3
72.5°	335.6	328.5	322.4	317.6	315.3	315.6	319.0	325.2	334.0	345.1	357.1
73°	323.1	316.7	311.0	306.7	304.5	305.0	308.1	314.2	322.2	333.0	344.9
73.5°	310.5	304.8	299.5	295.9	294.2	294.5	297.7	303.1	311.1	321.0	331.8
74°	297.8	292.9	288.7	285.4	283.6	284.7	287.3	292.6	300.0	309.3	319.1
74.5°	285.5	281.4	277.6	275.1	273.6	274.5	277.2	282.2	289.0	297.4	306.4
75°	273.5	270.1	267.0	264.5	263.4	264.3	266.9	271.5	278.0	285.8	294.5
75.5°	261.6	258.8	256.0	254.3	253.5	254.4	256.8	261.1	267.0	274.2	282.2
76°	249.4	247.6	245.8	244.1	243.4	244.5	246.9	251.1	256.6	262.9	270.1
76.5°	237.7	236.4	235.2	234.1	233.8	234.8	237.2	241.0	245.8	251.6	258.0
77°	226.2	225.6	225.2	224.4	224.3	225.4	227.6	231.0	235.5	240.5	246.3
77.5°	214.6	215.0	214.9	214.9	215.1	216.2	218.4	221.3	225.3	229.7	234.1
78°	203.5	204.8	205.1	205.5	206.1	207.1	209.0	211.9	215.4	219.1	222.8
78.5°	192.8	194.8	195.5	196.1	197.1	198.3	200.0	202.5	205.3	208.5	211.5
79°	182.0	184.4	186.0	187.2	188.1	189.5	191.1	193.3	195.7	198.1	200.5
79.5°	171.8	174.8	177.0	178.5	179.7	180.9	182.7	184.4	186.2	188.1	189.2
80°	161.7	165.9	168.5	170.3	171.8	172.8	174.1	175.5	177.3	178.2	178.8
80.5°	151.6	156.8	160.0	162.3	164.0	165.0	166.3	167.3	168.8	168.8	168.8
81°	141.5	147.7	151.6	154.3	156.1	157.3	158.4	159.4	160.2	159.7	158.9
81.5°	132.1	138.6	143.1	146.3	148.3	149.5	150.6	151.5	151.7	150.6	148.9
82°	123.4	129.9	134.7	138.3	140.5	141.8	142.8	143.5	143.1	141.5	138.9
82.5°	114.4	121.8	126.9	130.6	133.1	134.6	135.5	135.7	134.7	132.8	129.2
83°	105.8	113.6	119.3	123.3	126.0	127.5	128.3	128.2	126.8	124.3	120.3
83.5°	97.6	105.8	111.9	116.2	118.8	120.4	121.2	120.8	119.3	116.1	111.4
84°	89.8	98.4	104.8	109.3	112.1	113.8	114.4	113.8	111.8	108.1	103.0
84.5°	82.3	91.4	98.0	102.6	105.6	107.2	107.8	107.0	104.7	100.6	94.6
85°	75.2	84.5	91.3	96.2	99.4	101.0	101.4	100.4	97.7	93.3	87.0
85.5°	68.5	78.0	85.0	90.1	93.2	94.7	95.0	94.0	91.1	86.4	79.6
86°	62.2	71.6	79.0	84.2	87.4	89.0	89.3	88.0	84.7	79.6	72.5
86.5°	56.1	65.9	73.3	78.5	81.8	83.4	83.6	82.1	78.8	73.2	65.7
87°	50.6	60.4	67.8	73.2	76.6	78.2	78.2	76.5	73.0	67.3	59.4
87.5°	45.4	55.2	62.7	68.2	71.5	73.1	73.0	71.3	67.5	61.6	53.6
88°	40.8	50.4	57.9	63.4	66.7	68.2	68.2	66.3	62.3	56.4	48.1
88.5°	36.4	46.0	53.4	58.8	62.1	63.6	63.5	61.5	57.6	51.5	43.2



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	26.0	34.6	41.6	46.8	50.1	51.5	51.2	49.0	44.7	38.6	30.5
90.5°	23.4	31.5	38.3	43.4	46.6	47.9	47.5	45.4	41.2	35.1	27.2
91°	21.0	28.8	35.4	40.3	43.4	44.6	44.3	42.0	37.9	31.8	24.3
91.5°	19.1	26.4	32.6	37.4	40.4	41.6	41.2	39.0	34.9	29.0	21.7
92°	17.8	24.3	30.2	34.7	37.7	38.8	38.4	36.1	32.2	26.5	19.5
92.5°	16.7	22.4	28.0	32.4	35.2	36.2	35.8	33.6	29.7	24.3	18.1
93°	15.5	20.8	26.2	30.3	32.9	33.9	33.5	31.3	27.5	22.4	16.9
93.5°	14.4	19.5	24.6	28.4	31.0	31.9	31.4	29.3	25.7	20.7	15.6
94°	13.2	18.5	23.2	26.8	29.2	30.1	29.6	27.5	24.1	19.4	14.3
94.5°	12.6	17.6	22.0	25.5	27.7	28.5	28.0	26.0	22.6	18.2	13.0
95°	12.1	16.8	21.0	24.3	26.3	27.1	26.5	24.6	21.4	17.2	12.4
95.5°	11.7	16.1	20.0	23.1	25.1	25.8	25.2	23.4	20.3	16.3	11.9
96°	11.3	15.6	19.2	22.2	24.0	24.6	24.1	22.4	19.4	15.7	11.5
96.5°	11.0	15.2	18.6	21.3	23.0	23.6	23.1	21.5	18.7	15.1	11.0
97°	10.7	14.7	17.9	20.5	22.1	22.7	22.3	20.7	18.0	14.5	10.5
97.5°	10.5	14.2	17.4	19.8	21.4	21.9	21.5	20.1	17.5	14.0	10.1
98°	10.3	13.8	16.8	19.2	20.7	21.2	20.9	19.5	17.0	13.4	9.6
98.5°	10.2	13.4	16.4	18.6	20.1	20.7	20.3	18.9	16.4	12.9	9.3
99°	10.0	13.2	16.0	18.1	19.5	20.0	19.6	18.3	15.9	12.4	9.1
99.5°	9.9	13.0	15.6	17.7	19.0	19.5	19.0	17.7	15.4	12.0	9.0
100°	9.8	12.8	15.3	17.3	18.5	19.0	18.5	17.1	14.9	11.7	8.9
100.5°	9.6	12.6	15.0	16.9	18.1	18.5	18.0	16.6	14.5	11.5	8.8
101°	9.5	12.4	14.8	16.6	17.7	18.1	17.5	16.2	14.0	11.4	8.7
101.5°	9.4	12.3	14.5	16.3	17.3	17.7	17.1	15.8	13.6	11.2	8.6
102°	9.2	12.1	14.3	16.0	16.9	17.3	16.7	15.4	13.4	11.1	8.4
102.5°	9.0	11.9	14.1	15.7	16.6	16.9	16.4	15.2	13.3	11.0	8.3
103°	8.8	11.8	13.8	15.4	16.4	16.7	16.2	15.0	13.1	10.9	8.1
103.5°	8.6	11.6	13.6	15.2	16.1	16.4	16.0	14.9	12.9	10.7	7.8
104°	8.4	11.4	13.5	15.0	15.9	16.2	15.8	14.7	12.8	10.6	7.6
104.5°	8.2	11.1	13.3	14.8	15.6	16.0	15.6	14.5	12.7	10.4	7.4
105°	8.1	10.9	13.0	14.5	15.4	15.8	15.4	14.3	12.5	10.2	7.2
105.5°	7.9	10.7	12.8	14.3	15.2	15.6	15.2	14.1	12.3	10.0	7.0
106°	7.7	10.4	12.6	14.1	15.0	15.4	15.0	13.9	12.1	9.7	6.8
106.5°	7.5	10.2	12.3	13.8	14.7	15.2	14.8	13.7	11.9	9.4	6.6
107°	7.4	10.0	12.0	13.6	14.5	14.9	14.6	13.5	11.7	9.2	6.4
107.5°	7.2	9.8	11.8	13.3	14.2	14.6	14.3	13.2	11.4	8.9	6.2
108°	7.0	9.6	11.5	13.1	14.0	14.4	14.0	12.9	11.1	8.7	6.1
108.5°	6.8	9.4	11.3	12.8	13.7	14.1	13.8	12.6	10.8	8.4	5.9
109°	6.6	9.2	11.1	12.5	13.4	13.8	13.5	12.3	10.5	8.2	5.8
109.5°	6.4	9.0	10.9	12.2	13.1	13.5	13.2	12.0	10.2	8.0	5.6
110°	6.2	8.8	10.6	11.9	12.8	13.2	12.9	11.7	9.9	7.8	5.5
110.5°	6.1	8.5	10.3	11.7	12.5	12.9	12.6	11.4	9.7	7.6	5.3
111°	5.9	8.3	10.1	11.4	12.2	12.6	12.3	11.1	9.4	7.4	5.1



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.2	7.6	9.5	10.6	11.4	11.7	11.4	10.3	8.7	6.9	4.6
113°	5.0	7.4	9.3	10.4	11.1	11.4	11.1	10.1	8.5	6.8	4.5
113.5°	4.8	7.2	9.0	10.2	10.9	11.1	10.9	9.8	8.3	6.6	4.3
114°	4.7	6.9	8.8	9.9	10.6	10.9	10.6	9.6	8.0	6.4	4.2
114.5°	4.5	6.7	8.6	9.7	10.4	10.7	10.4	9.4	7.8	6.2	4.1
115°	4.4	6.4	8.3	9.5	10.2	10.4	10.1	9.1	7.6	6.0	4.0
115.5°	4.3	6.2	8.1	9.3	9.9	10.1	9.9	8.9	7.4	5.8	3.9
116°	4.2	6.0	7.9	9.1	9.7	9.9	9.6	8.6	7.2	5.6	3.8
116.5°	4.2	5.7	7.6	8.9	9.5	9.6	9.3	8.4	7.0	5.4	3.7
117°	4.1	5.5	7.3	8.6	9.3	9.4	9.1	8.1	6.8	5.2	3.6
117.5°	4.0	5.3	7.1	8.4	9.1	9.2	8.8	7.9	6.5	5.1	3.6
118°	4.0	5.2	6.8	8.1	8.8	9.0	8.6	7.7	6.3	4.9	3.5
118.5°	3.9	5.0	6.5	7.9	8.6	8.7	8.4	7.5	6.0	4.8	3.4
119°	3.8	4.9	6.3	7.6	8.3	8.5	8.1	7.2	5.8	4.6	3.2
119.5°	3.6	4.7	6.0	7.3	8.1	8.2	7.9	6.9	5.6	4.4	3.1
120°	3.5	4.6	5.8	7.0	7.8	8.0	7.6	6.6	5.4	4.3	3.0
120.5°	3.3	4.5	5.6	6.7	7.5	7.7	7.4	6.4	5.2	4.2	2.9
121°	3.2	4.4	5.4	6.5	7.2	7.4	7.1	6.2	5.0	4.1	2.8
121.5°	3.1	4.3	5.3	6.2	6.9	7.1	6.8	5.9	4.9	4.0	2.8
122°	3.1	4.2	5.1	6.0	6.6	6.8	6.5	5.7	4.7	3.9	2.8
122.5°	3.2	4.2	5.0	5.8	6.4	6.6	6.3	5.5	4.6	3.8	2.8
123°	3.3	4.1	4.8	5.6	6.1	6.3	6.1	5.4	4.4	3.6	2.9
123.5°	3.3	3.9	4.7	5.5	5.9	6.1	5.9	5.2	4.3	3.4	2.9
124°	3.4	3.8	4.6	5.3	5.7	5.9	5.7	5.1	4.2	3.2	3.0
124.5°	3.4	3.6	4.4	5.2	5.6	5.7	5.5	4.9	4.1	3.0	3.0
125°	3.5	3.4	4.3	5.0	5.4	5.5	5.3	4.8	4.0	2.9	3.1
125.5°	3.6	3.2	4.2	4.9	5.3	5.4	5.2	4.7	3.9	2.8	3.1
126°	3.6	3.1	4.1	4.8	5.1	5.2	5.1	4.6	3.7	2.7	3.2
126.5°	3.7	3.1	4.0	4.6	5.0	5.1	4.9	4.5	3.5	2.6	3.2
127°	3.8	3.1	3.8	4.5	4.9	4.9	4.8	4.4	3.3	2.6	3.3
127.5°	3.8	3.2	3.6	4.4	4.8	4.8	4.7	4.2	3.2	2.7	3.3
128°	3.9	3.2	3.4	4.3	4.6	4.7	4.6	4.1	3.1	2.7	3.3
128.5°	4.0	3.3	3.3	4.1	4.5	4.6	4.5	3.9	2.9	2.8	3.3
129°	4.0	3.4	3.1	3.9	4.4	4.5	4.4	3.6	2.8	2.8	3.3
129.5°	4.1	3.4	3.0	3.7	4.2	4.4	4.2	3.5	2.8	2.9	3.3
130°	4.1	3.5	3.1	3.5	4.0	4.1	3.9	3.3	2.8	3.0	3.3
130.5°	4.1	3.5	3.1	3.3	3.8	3.9	3.7	3.2	2.8	3.0	3.4
131°	4.2	3.6	3.2	3.1	3.6	3.7	3.5	3.0	2.9	3.1	3.4
131.5°	4.2	3.6	3.2	3.0	3.4	3.5	3.4	2.9	3.0	3.1	3.4
132°	4.2	3.7	3.3	3.0	3.2	3.3	3.2	2.9	3.0	3.2	3.5
132.5°	4.3	3.7	3.3	3.1	3.0	3.1	3.0	3.0	3.1	3.3	3.5
133°	4.4	3.8	3.4	3.1	3.0	3.0	3.0	3.0	3.1	3.3	3.6
133.5°	4.5	3.9	3.4	3.2	3.0	3.0	3.0	3.1	3.2	3.4	3.8



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.0	4.7	4.6	4.4	4.4	4.4	4.4	4.4	4.3	4.2	4.1
158°	4.9	4.6	4.7	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.2
158.5°	4.6	4.6	4.7	4.5	4.4	4.4	4.4	4.5	4.4	4.4	4.2
159°	4.4	4.5	4.7	4.6	4.5	4.5	4.5	4.5	4.5	4.4	4.3
159.5°	4.4	4.6	4.8	4.7	4.5	4.5	4.5	4.6	4.6	4.5	4.3
160°	4.4	4.6	4.9	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.4
160.5°	4.4	4.6	4.9	4.8	4.6	4.6	4.6	4.6	4.7	4.6	4.4
161°	4.3	4.5	4.8	4.9	4.7	4.7	4.7	4.7	4.8	4.7	4.5
161.5°	4.3	4.4	4.7	4.9	4.8	4.7	4.8	4.8	4.8	4.7	4.5
162°	4.3	4.3	4.6	4.9	4.8	4.8	4.8	4.9	4.9	4.8	4.5
162.5°	4.2	4.3	4.6	5.0	4.9	4.9	4.9	5.0	5.0	4.8	4.5
163°	4.2	4.3	4.6	5.0	5.0	5.0	5.0	5.0	5.0	4.8	4.5
163.5°	4.2	4.3	4.5	4.9	5.0	5.0	5.0	5.0	5.0	4.8	4.6
164°	4.2	4.3	4.3	4.7	5.1	5.1	5.1	5.1	5.1	4.9	4.5
164.5°	4.1	4.3	4.3	4.7	5.1	5.1	5.1	5.2	5.1	5.0	4.0
165°	4.1	4.3	4.3	4.6	5.1	5.2	5.2	5.2	5.1	4.6	3.8
165.5°	4.0	4.3	4.3	4.6	5.1	5.2	5.2	5.2	5.0	4.0	4.3
166°	4.0	4.3	4.3	4.4	5.0	5.2	5.2	5.3	5.0	4.1	4.5
166.5°	3.9	4.3	4.3	4.3	4.9	5.2	5.2	5.3	5.0	4.7	4.0
167°	3.9	4.5	4.3	4.2	4.8	5.2	5.2	5.3	4.5	4.5	3.5
167.5°	3.9	4.6	4.4	4.2	4.7	5.2	5.2	5.3	4.0	3.8	4.0
168°	4.0	4.6	4.5	4.2	4.7	5.2	5.2	5.2	4.4	3.5	4.4
168.5°	4.2	4.7	4.8	4.2	4.3	5.2	5.2	5.2	4.8	4.4	4.1
169°	4.1	4.6	4.8	4.3	4.2	5.1	5.1	5.1	3.8	4.5	4.1
169.5°	4.1	4.5	4.7	4.4	4.1	5.0	5.1	4.7	3.4	4.4	4.3
170°	4.2	4.4	4.7	4.6	4.1	4.8	5.1	4.1	4.5	4.5	4.3
170.5°	4.2	4.4	4.6	4.7	4.1	4.7	5.0	3.9	4.6	4.5	4.3
171°	4.2	4.3	4.5	4.6	4.1	4.6	4.9	3.9	4.4	4.5	4.2
171.5°	4.1	4.3	4.4	4.6	4.1	4.4	4.9	3.4	4.5	4.4	4.2
172°	4.1	4.2	4.3	4.5	4.3	4.0	4.7	3.6	4.5	4.3	4.1
172.5°	4.0	4.2	4.3	4.4	4.3	3.9	4.5	4.2	4.4	4.3	4.0
173°	4.0	4.1	4.2	4.3	4.3	3.8	4.3	4.2	4.3	4.1	3.9
173.5°	4.0	4.1	4.1	4.2	4.3	3.7	3.7	4.2	4.2	4.0	3.8
174°	4.0	4.0	4.1	4.2	4.2	3.7	3.2	4.1	4.0	3.9	3.8
174.5°	3.9	4.0	4.0	4.1	4.2	3.6	3.0	4.0	3.9	3.8	3.8
175°	3.9	3.9	4.0	4.0	4.1	3.5	3.5	3.9	3.8	3.8	3.7
175.5°	3.9	3.9	3.9	4.0	4.0	3.6	3.9	3.8	3.7	3.7	3.7
176°	3.8	3.9	3.9	3.9	3.9	3.5	3.8	3.7	3.7	3.7	3.7
176.5°	3.8	3.8	3.9	3.8	3.8	3.4	3.7	3.6	3.7	3.7	3.7
177°	3.8	3.7	3.7	3.6	3.5	3.7	3.7	3.7	3.7	3.7	3.6
177.5°	3.6	3.6	3.6	3.6	3.6	1.5	3.6	3.6	3.6	3.6	3.6
178°	3.6	3.6	3.6	3.7	3.7	2.2	3.7	3.6	3.6	3.6	3.6
178.5°	3.7	3.7	3.7	3.6	3.3	2.9	3.4	3.6	3.7	3.6	3.6



TEST NUMBER: P563542
CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

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: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1921.6	1921.6	1921.6	1921.6
0.5°	1921.2	1921.1	1921.1	1921.1
1°	1920.8	1920.8	1920.8	1920.9
1.5°	1920.4	1920.5	1920.5	1920.9
2°	1918.8	1919.6	1920.3	1920.6
2.5°	1917.1	1917.6	1919.2	1919.9
3°	1915.7	1916.9	1918.4	1918.5
3.5°	1914.9	1916.6	1917.0	1917.2
4°	1913.6	1915.5	1915.6	1916.4
4.5°	1910.8	1913.0	1913.5	1914.3
5°	1909.3	1910.7	1912.3	1913.1
5.5°	1907.9	1908.6	1910.5	1911.9
6°	1904.8	1907.3	1908.4	1910.3
6.5°	1901.9	1903.6	1906.2	1908.3
7°	1900.5	1901.1	1904.6	1906.4
7.5°	1897.0	1899.2	1900.4	1903.7
8°	1893.2	1895.8	1899.0	1901.8
8.5°	1889.3	1892.3	1896.2	1898.2
9°	1886.3	1888.9	1892.6	1896.1
9.5°	1882.6	1885.5	1889.1	1892.7
10°	1878.0	1881.1	1885.9	1888.8
10.5°	1874.3	1878.2	1881.4	1885.4
11°	1869.8	1874.8	1878.8	1881.4
11.5°	1865.3	1870.3	1875.2	1877.3
12°	1860.9	1865.8	1871.3	1873.4
12.5°	1855.5	1861.0	1866.5	1869.7
13°	1850.2	1855.9	1861.9	1865.3
13.5°	1845.1	1851.0	1857.6	1860.3
14°	1839.6	1846.0	1852.2	1855.7
14.5°	1833.8	1841.5	1846.9	1851.0
15°	1827.9	1835.4	1841.6	1845.7
15.5°	1821.5	1829.2	1836.2	1840.8
16°	1815.1	1823.5	1831.2	1834.8
16.5°	1808.6	1817.1	1825.8	1828.2
17°	1802.4	1810.8	1819.2	1822.2
17.5°	1795.6	1804.6	1812.2	1817.1
18°	1789.0	1798.4	1805.9	1811.5
18.5°	1782.0	1791.9	1799.7	1804.4
19°	1774.4	1784.8	1793.1	1797.7
19.5°	1766.0	1777.6	1786.2	1791.0
20°	1758.3	1770.1	1778.8	1784.3
20.5°	1751.1	1762.2	1771.8	1777.4
21°	1743.6	1754.2	1763.9	1770.6



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	1717.3	1730.3	1741.3	1747.1
23°	1708.5	1722.0	1732.8	1740.1
23.5°	1699.6	1713.1	1724.2	1731.3
24°	1690.5	1704.6	1715.9	1723.0
24.5°	1681.0	1695.7	1707.6	1715.1
25°	1671.7	1686.3	1698.9	1706.6
25.5°	1661.4	1677.5	1689.5	1697.5
26°	1652.5	1667.9	1680.5	1688.6
26.5°	1642.3	1658.2	1671.2	1679.2
27°	1632.3	1648.6	1661.4	1669.9
27.5°	1621.5	1639.5	1651.9	1660.7
28°	1611.3	1628.6	1642.4	1650.7
28.5°	1600.4	1618.4	1632.3	1641.0
29°	1589.0	1607.8	1622.3	1632.0
29.5°	1579.0	1597.0	1611.8	1621.9
30°	1568.0	1586.9	1601.4	1611.2
30.5°	1556.3	1575.7	1591.0	1601.1
31°	1544.4	1565.1	1580.3	1590.9
31.5°	1533.6	1553.1	1569.3	1580.1
32°	1521.5	1542.0	1558.0	1568.4
32.5°	1510.0	1530.5	1546.9	1557.3
33°	1498.4	1519.5	1535.4	1546.7
33.5°	1486.8	1508.4	1523.9	1535.2
34°	1473.9	1496.2	1512.4	1523.3
34.5°	1462.0	1483.7	1500.2	1511.2
35°	1449.8	1472.1	1488.8	1500.0
35.5°	1436.9	1459.7	1476.7	1488.4
36°	1424.3	1447.5	1464.4	1476.3
36.5°	1411.6	1434.8	1453.2	1463.9
37°	1398.9	1422.1	1441.0	1451.8
37.5°	1386.3	1409.5	1428.9	1440.0
38°	1373.1	1396.9	1415.4	1428.2
38.5°	1358.7	1384.1	1402.0	1414.9
39°	1344.9	1370.9	1388.6	1401.2
39.5°	1331.5	1357.3	1375.5	1387.7
40°	1318.2	1344.1	1363.0	1374.6
40.5°	1304.8	1330.9	1350.2	1362.2
41°	1290.7	1317.1	1336.4	1349.0
41.5°	1277.0	1303.0	1323.2	1335.2
42°	1262.5	1289.3	1309.5	1322.1
42.5°	1248.5	1275.7	1295.5	1308.9
43°	1234.3	1261.5	1281.6	1295.0
43.5°	1220.2	1247.3	1268.1	1280.5



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	1176.9	1205.4	1225.9	1238.5
45.5°	1162.8	1190.8	1211.2	1224.8
46°	1148.0	1176.5	1196.9	1210.0
46.5°	1133.6	1162.1	1182.3	1195.0
47°	1119.4	1147.5	1168.0	1180.4
47.5°	1104.3	1133.1	1153.5	1166.3
48°	1089.8	1117.7	1138.5	1152.1
48.5°	1074.6	1103.4	1124.1	1137.0
49°	1060.0	1088.7	1109.5	1122.9
49.5°	1045.4	1073.5	1094.4	1107.9
50°	1030.1	1058.5	1079.3	1092.9
50.5°	1015.3	1043.9	1064.3	1077.6
51°	1001.0	1028.5	1049.6	1062.8
51.5°	986.1	1014.0	1034.9	1047.7
52°	970.6	998.8	1019.1	1033.0
52.5°	955.7	983.6	1004.4	1017.4
53°	940.6	968.6	988.9	1002.3
53.5°	926.0	953.3	973.9	987.0
54°	911.0	938.1	958.6	971.9
54.5°	896.2	923.1	943.4	956.4
55°	881.5	908.1	928.1	940.7
55.5°	865.4	893.3	912.6	925.7
56°	850.5	877.1	897.0	909.9
56.5°	835.9	862.5	882.2	894.7
57°	821.1	847.2	866.7	879.8
57.5°	805.7	832.1	851.5	863.8
58°	790.7	816.1	835.6	848.1
58.5°	775.7	801.1	820.2	833.0
59°	761.4	785.7	804.8	817.1
59.5°	745.9	770.5	789.6	801.7
60°	731.0	755.1	774.2	785.8
60.5°	715.7	740.1	758.5	770.4
61°	701.3	724.9	742.8	754.8
61.5°	686.1	709.5	727.2	739.3
62°	671.3	694.4	711.8	723.6
62.5°	656.5	679.5	696.2	708.0
63°	642.1	664.0	680.7	692.4
63.5°	627.0	648.8	665.4	677.0
64°	611.9	633.7	649.8	661.1
64.5°	597.4	618.5	634.7	645.2
65°	583.2	603.1	619.2	629.3
65.5°	568.1	588.3	603.5	613.3
66°	554.2	573.6	588.1	597.3



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	510.5	528.5	542.3	550.9
68°	496.0	513.1	526.7	535.6
68.5°	481.6	498.5	511.0	519.9
69°	467.8	483.3	496.2	504.4
69.5°	453.5	468.5	480.8	489.0
70°	439.2	454.0	465.8	473.4
70.5°	425.0	439.3	450.5	458.0
71°	411.1	424.5	435.6	442.9
71.5°	397.2	409.9	420.3	427.5
72°	383.3	395.5	405.2	412.5
72.5°	369.4	381.2	390.0	397.4
73°	355.7	366.5	375.4	382.0
73.5°	342.6	352.6	360.7	366.5
74°	329.1	338.1	346.0	351.9
74.5°	315.4	324.0	331.3	337.0
75°	302.2	309.6	316.5	322.3
75.5°	289.2	296.0	301.9	307.2
76°	276.5	282.1	288.2	292.7
76.5°	263.5	268.7	273.6	278.3
77°	250.9	255.0	259.7	264.0
77.5°	238.1	241.9	245.6	249.4
78°	225.9	228.4	232.0	235.7
78.5°	213.9	215.7	218.0	221.5
79°	201.9	203.0	204.7	207.7
79.5°	190.2	190.6	191.9	194.1
80°	179.2	178.7	179.5	181.3
80.5°	168.3	167.0	167.0	168.0
81°	157.3	155.1	154.6	155.1
81.5°	146.4	143.3	142.1	142.5
82°	135.5	131.6	129.7	130.2
82.5°	125.2	120.7	117.9	117.6
83°	115.0	110.1	107.0	106.5
83.5°	105.5	99.6	95.8	95.3
84°	96.2	89.5	85.3	84.6
84.5°	87.5	80.1	75.1	74.1
85°	79.0	71.1	65.7	64.4
85.5°	71.2	62.5	56.5	56.0
86°	63.7	54.5	48.0	47.6
86.5°	56.6	47.1	40.0	39.3
87°	49.9	40.0	32.8	30.9
87.5°	43.9	33.8	27.6	23.7
88°	38.4	28.2	22.5	17.2
88.5°	33.3	24.5	17.3	11.5



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	21.3	13.3	4.9	3.7
90.5°	19.2	9.8	3.3	2.0
91°	17.1	8.0	2.4	0.4
91.5°	15.1	6.7	1.9	0.3
92°	13.0	5.8	1.7	0.3
92.5°	10.9	5.2	1.5	0.2
93°	9.9	4.8	1.3	0.2
93.5°	9.2	4.5	1.3	0.2
94°	8.6	4.2	1.2	0.3
94.5°	8.2	3.9	1.2	0.3
95°	7.8	3.8	1.2	0.4
95.5°	7.3	3.7	1.2	0.5
96°	6.9	3.7	1.2	0.6
96.5°	6.6	3.7	1.1	0.6
97°	6.4	3.6	1.1	0.7
97.5°	6.4	3.5	1.1	0.8
98°	6.3	3.3	1.0	0.8
98.5°	6.3	3.2	1.0	0.9
99°	6.2	3.1	1.1	1.0
99.5°	6.2	3.0	1.1	1.1
100°	6.1	3.0	1.2	1.2
100.5°	5.9	3.0	1.3	1.3
101°	5.7	2.9	1.4	1.5
101.5°	5.5	2.9	1.5	1.6
102°	5.3	2.9	1.5	1.7
102.5°	5.1	2.8	1.6	1.8
103°	4.9	2.7	1.7	1.9
103.5°	4.8	2.6	1.8	1.9
104°	4.7	2.5	1.9	2.0
104.5°	4.6	2.4	1.9	2.0
105°	4.5	2.3	2.0	2.0
105.5°	4.4	2.3	2.0	2.0
106°	4.3	2.2	2.2	2.0
106.5°	4.2	2.1	2.5	2.0
107°	4.0	2.0	2.7	2.0
107.5°	3.9	2.0	2.5	2.0
108°	3.7	2.0	2.5	2.0
108.5°	3.6	1.9	2.5	2.0
109°	3.4	1.9	2.4	2.0
109.5°	3.2	2.0	2.4	2.1
110°	3.1	2.0	2.3	2.1
110.5°	3.0	2.0	2.4	2.1
111°	2.9	2.1	2.4	2.1



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563542

CATALOG NUMBER: 4NWS3C3-UNV-HI-5000K

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°	1763.2	1767.4	1767.0	1763.8	1757.4	1749.7	1741.6	1734.7	1729.0	1726.1	1725.0
22°	1754.8	1759.4	1759.4	1755.6	1749.3	1741.3	1732.3	1725.3	1720.2	1716.3	1715.4



44°	1266.7	1271.3	1265.4	1251.9	1230.2	1203.6	1176.5	1153.2	1136.1	1127.6	1128.8
44.5°	1252.6	1256.5	1251.6	1237.4	1215.7	1188.5	1161.9	1138.3	1121.1	1112.9	1112.9



66.5°	581.7	587.2	585.8	577.6	564.4	546.0	529.2	514.4	503.6	497.3	495.6
67°	566.1	571.2	570.6	563.2	550.0	532.7	516.7	502.0	491.1	485.3	484.1



89°	7.1	14.0	26.7	41.2	54.9	64.4	72.0	76.4	78.1	77.4	74.6
89.5°	5.3	9.8	21.9	36.0	49.4	59.6	67.2	71.1	72.8	72.3	69.5



111.5°	2.1	2.1	1.7	1.5	2.1	3.2	4.6	6.0	7.0	7.2	7.0
112°	2.1	2.1	1.8	1.6	2.0	3.0	4.4	5.7	6.6	6.9	6.7



134°	3.0	3.0	3.0	3.6	3.7	3.3	3.2	3.3	3.3	3.5	3.6
134.5°	3.0	3.0	3.0	3.6	3.8	3.3	3.3	3.3	3.4	3.5	3.7



156.5°	2.0	3.1	3.7	3.6	3.6	3.6	3.8	4.2	4.4	4.6	4.6
157°	2.0	3.1	3.7	3.6	3.6	3.6	3.8	4.1	4.3	4.5	4.5



179°	3.6	3.5	3.3	3.1	2.9	2.7	2.9	3.1	3.4	3.6	3.5
179.5°	3.3	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.3	3.4	3.3





21.5°	1726.7	1731.1	1735.2	1740.4	1745.1	1747.3	1747.4	1745.1	1739.8	1731.6	1721.3
22°	1717.1	1721.3	1726.5	1732.2	1737.4	1739.1	1739.5	1737.3	1731.3	1723.0	1712.3



44°	1137.0	1153.9	1175.8	1196.3	1214.7	1227.9	1233.0	1230.8	1221.9	1205.4	1181.4
44.5°	1122.4	1139.6	1161.0	1181.1	1200.1	1213.3	1217.8	1216.9	1208.0	1190.9	1166.5



66.5°	499.2	506.8	517.2	527.8	537.0	543.2	541.8	540.8	534.1	524.7	510.8
67°	487.3	494.2	504.1	513.8	522.1	527.1	526.8	525.3	519.0	509.6	496.5



89°	69.6	62.5	53.7	40.9	27.5	14.7	5.9	0.9	4.9	13.6	22.4
89.5°	65.0	58.1	48.6	36.5	23.6	11.8	4.6	0.8	3.6	10.2	20.2



111.5°	6.1	4.8	3.5	2.6	2.7	3.2	3.9	3.6	4.1	3.1	3.6
112°	5.8	4.6	3.4	2.6	2.7	3.4	4.0	3.6	4.2	3.2	3.5



134°	3.9	4.4	5.0	6.2	6.3	5.0	4.4	4.0	5.1	5.3	4.9
134.5°	3.9	4.4	5.2	6.3	6.2	4.9	4.4	4.1	5.1	5.4	4.9



156.5°	4.5	4.3	4.2	4.3	4.3	4.0	3.9	3.4	3.6	4.0	4.5
157°	4.4	4.2	4.2	4.3	4.2	4.0	3.7	3.4	3.5	4.0	4.5



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





21.5°	1710.1	1698.0	1688.2	1679.9	1675.8	1674.9	1677.2	1684.6	1695.0	1708.4	1722.0
22°	1701.0	1687.9	1677.4	1670.2	1665.8	1663.8	1667.2	1673.7	1684.8	1698.4	1712.7



44°	1154.4	1124.7	1098.4	1077.4	1064.6	1061.2	1067.8	1084.5	1109.9	1140.6	1174.9
44.5°	1140.1	1109.4	1083.4	1062.5	1049.2	1045.7	1052.7	1069.8	1095.1	1126.2	1159.6



66.5°	495.5	479.7	466.1	455.9	450.0	449.4	453.9	463.9	478.4	497.3	518.1
67°	481.6	466.5	453.8	444.2	438.6	438.0	441.9	452.0	466.0	483.9	504.3



89°	32.6	41.8	49.1	54.5	57.9	59.3	59.1	57.0	52.9	46.7	38.5
89.5°	29.1	38.0	45.2	50.5	53.9	55.3	54.9	52.8	48.6	42.4	34.3



111.5°	5.7	8.1	10.0	11.2	11.9	12.3	12.0	10.9	9.2	7.3	5.0
112°	5.5	7.9	9.7	10.9	11.6	12.0	11.7	10.6	8.9	7.1	4.8



134°	4.6	4.0	3.5	3.2	3.1	3.0	3.1	3.1	3.2	3.5	3.9
134.5°	4.7	4.0	3.5	3.3	3.1	3.0	3.1	3.2	3.3	3.6	4.0



156.5°	4.9	4.8	4.5	4.4	4.4	4.4	4.4	4.3	4.2	4.1	4.1
157°	5.0	4.8	4.6	4.4	4.4	4.4	4.4	4.4	4.3	4.2	4.1



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





21.5°	1735.0	1746.9	1756.2	1763.2
22°	1725.8	1739.4	1749.3	1754.8



44°	1206.1	1233.8	1253.5	1266.7
44.5°	1192.4	1219.2	1239.8	1252.6



66.5°	539.2	558.4	572.8	581.7
67°	524.7	543.4	557.8	566.1



89°	28.9	20.8	12.1	7.1
89.5°	24.8	17.1	7.2	5.3



111.5°	2.9	2.1	2.4	2.1
112°	2.8	2.1	2.4	2.1



134°	3.5	3.3	3.2	3.0
134.5°	3.5	3.4	3.2	3.0



156.5°	4.0	3.2	2.3	2.0
157°	4.0	3.2	2.3	2.0



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



(END OF REPORT)