

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: P563559

Luminaire Tested: **4NWS3C3MS-UNV-HI-4000K**

Issue Date: 7/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563559  
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: 4NWS3C3MS-UNV-HI-4000K  
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND HI LUMEN SETTING  
Light Source: -  
Ballast/Driver:

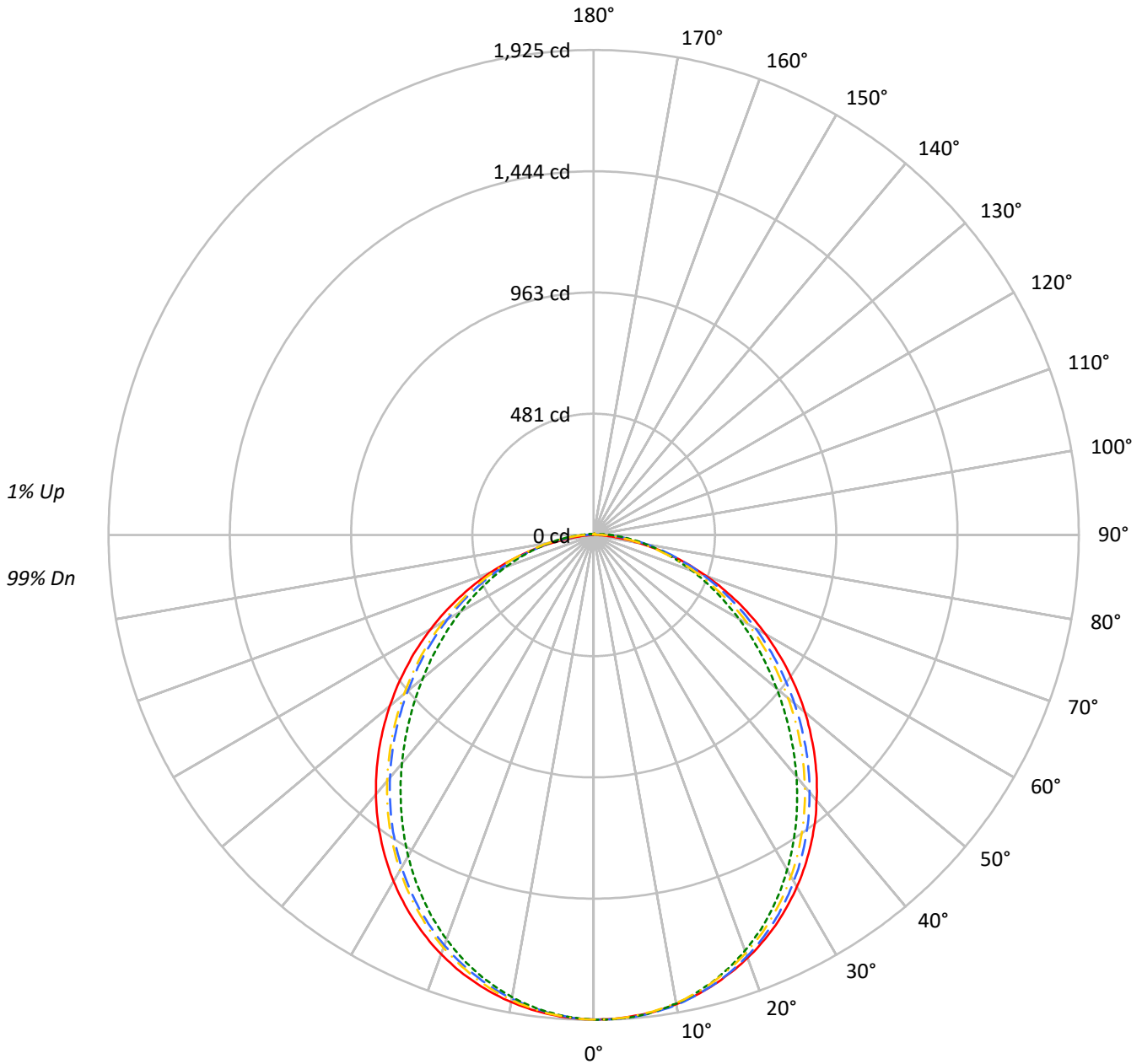
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5016.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 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): 37.7  
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

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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°	11694	11694	11694	11694
5°	11666	11518	11646	11433
10°	11630	11287	11579	11133
15°	11564	10991	11485	10765
20°	11469	10630	11367	10343
25°	11350	10212	11209	9854
30°	11188	9723	11011	9321
35°	10984	9176	10772	8732
40°	10733	8581	10483	8113
45°	10443	7956	10142	7472
50°	10097	7321	9742	6837
55°	9693	6713	9282	6214
60°	9232	6106	8747	5604
65°	8677	5489	8105	4985
70°	7970	4871	7285	4344
75°	7032	4228	6175	3656
80°	5684	3536	4626	2935
85°	3636	2825	2334	2243



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.6	3.6
10°-20°	515.4	10.3
20°-30°	765.4	15.3
30°-40°	892.2	17.8
40°-50°	883.2	17.6
50°-60°	758.5	15.1
60°-70°	555.1	11.1
70°-80°	315.2	6.3
80°-90°	105.0	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°	1462.3	29.2
0°-40°	2354.5	46.9
0°-60°	3996.3	79.7
0°-90°	4971.5	99.1
90°-120°	31.8	0.6
90°-150°	41.1	0.8
90°-180°	44.0	0.9
0°-180°	5016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1924	1924	1924	1924	1924	
5°	1915	1919	1912	1904	1915	182
15°	1848	1834	1835	1797	1848	521
25°	1709	1656	1687	1598	1709	787
35°	1502	1399	1473	1331	1502	939
45°	1240	1099	1204	1032	1240	956
55°	942	803	902	743	942	842
65°	630	535	589	486	630	623
75°	323	306	283	265	323	342
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9
0.5°	1923.4	1923.5	1923.6	1923.8	1924.0	1924.1	1924.2	1924.3	1924.3	1924.4	1924.3
1°	1923.2	1923.4	1923.8	1924.1	1924.4	1924.5	1924.6	1924.5	1923.9	1923.2	1923.7
1.5°	1923.2	1924.0	1924.1	1923.4	1923.1	1923.4	1924.1	1924.6	1923.9	1924.8	1925.0
2°	1922.9	1923.4	1923.5	1923.4	1923.8	1924.4	1924.8	1924.8	1923.8	1923.9	1924.3
2.5°	1922.2	1922.7	1922.7	1922.9	1922.9	1922.3	1922.6	1922.4	1924.4	1923.2	1922.4
3°	1920.8	1921.2	1922.0	1922.4	1922.9	1923.0	1923.4	1923.8	1923.1	1922.9	1923.0
3.5°	1919.5	1920.5	1921.3	1922.8	1922.1	1922.6	1922.6	1922.1	1922.7	1921.4	1920.8
4°	1918.7	1920.4	1919.9	1921.6	1921.2	1921.5	1921.4	1921.1	1920.1	1922.2	1920.4
4.5°	1916.6	1918.2	1918.7	1919.9	1920.9	1920.7	1919.9	1920.8	1920.1	1920.2	1918.4
5°	1915.4	1916.9	1917.5	1918.2	1919.3	1919.3	1917.5	1918.2	1918.7	1918.7	1917.1
5.5°	1914.2	1915.6	1916.3	1916.7	1917.3	1916.7	1916.1	1916.1	1916.9	1916.5	1914.7
6°	1912.6	1913.9	1914.3	1915.2	1916.2	1915.2	1914.8	1914.3	1914.5	1913.9	1912.0
6.5°	1910.6	1912.2	1912.5	1913.1	1914.2	1913.3	1913.5	1912.2	1912.2	1912.1	1910.0
7°	1908.7	1909.6	1911.2	1910.7	1910.8	1909.7	1911.4	1909.6	1909.3	1909.2	1907.7
7.5°	1906.0	1907.0	1908.4	1909.5	1909.3	1908.3	1907.8	1907.1	1906.3	1904.9	1905.0
8°	1904.0	1904.1	1906.2	1906.5	1906.4	1905.7	1904.9	1904.4	1903.7	1902.7	1902.2
8.5°	1900.4	1900.9	1903.7	1903.2	1903.7	1903.2	1902.0	1901.3	1900.0	1899.3	1897.9
9°	1898.4	1900.1	1900.3	1901.0	1901.1	1900.3	1898.3	1898.0	1896.5	1897.1	1894.3
9.5°	1894.9	1896.6	1898.0	1897.6	1897.9	1896.2	1894.1	1894.0	1893.1	1891.2	1890.5
10°	1891.1	1893.3	1894.4	1894.5	1894.2	1892.9	1890.7	1889.4	1888.8	1889.2	1887.3
10.5°	1887.6	1889.4	1891.2	1891.3	1890.5	1889.0	1886.6	1885.2	1884.5	1884.2	1882.6
11°	1883.7	1884.9	1887.1	1887.3	1886.6	1885.7	1881.8	1881.3	1881.0	1879.6	1878.2
11.5°	1879.6	1882.1	1883.1	1883.5	1882.0	1881.3	1877.7	1877.2	1875.9	1875.0	1873.4
12°	1875.7	1878.0	1879.7	1879.8	1878.0	1876.5	1873.8	1872.3	1869.7	1870.1	1867.5
12.5°	1872.0	1873.8	1875.4	1875.6	1873.1	1872.1	1869.2	1867.2	1865.0	1864.4	1862.9
13°	1867.5	1870.0	1871.3	1870.6	1867.9	1867.5	1863.8	1862.2	1860.1	1858.1	1857.4
13.5°	1862.6	1865.5	1866.8	1866.3	1863.4	1862.3	1857.6	1856.2	1854.3	1852.2	1850.5
14°	1857.9	1860.7	1861.9	1862.0	1858.3	1856.2	1852.8	1850.4	1848.4	1845.9	1845.1
14.5°	1853.3	1855.9	1857.0	1857.0	1852.6	1851.1	1847.8	1844.3	1841.3	1840.6	1838.1
15°	1847.9	1851.0	1851.7	1851.2	1847.9	1845.7	1841.3	1838.2	1835.3	1834.3	1832.8
15.5°	1843.0	1845.9	1846.0	1845.2	1842.8	1840.0	1834.4	1832.4	1828.7	1827.8	1825.5
16°	1837.0	1840.7	1841.1	1839.8	1836.4	1833.4	1828.4	1825.4	1822.5	1820.2	1818.1
16.5°	1830.4	1835.0	1835.9	1834.4	1830.3	1827.0	1821.6	1818.1	1815.2	1812.3	1811.7
17°	1824.3	1829.4	1829.4	1828.6	1824.8	1820.5	1815.1	1810.8	1807.4	1805.9	1805.0
17.5°	1819.2	1823.0	1823.5	1822.1	1818.3	1813.5	1807.0	1803.6	1799.4	1798.6	1796.5
18°	1813.6	1816.5	1817.5	1815.6	1811.2	1806.7	1800.4	1796.0	1791.9	1789.8	1788.9
18.5°	1806.6	1811.1	1811.6	1809.5	1804.7	1799.7	1792.8	1787.9	1784.6	1781.7	1780.7
19°	1799.9	1804.9	1805.3	1802.5	1797.9	1792.1	1785.7	1780.0	1775.9	1773.3	1772.8
19.5°	1793.1	1797.6	1797.9	1795.5	1790.3	1784.1	1777.2	1772.0	1767.0	1765.8	1762.8
20°	1786.4	1790.5	1790.5	1788.3	1783.0	1776.3	1768.6	1763.2	1758.7	1755.5	1754.7
20.5°	1779.5	1783.8	1783.7	1781.0	1775.6	1768.8	1760.2	1754.2	1750.1	1746.9	1745.4
21°	1772.7	1776.9	1776.5	1773.4	1767.2	1760.4	1752.3	1745.4	1741.3	1737.2	1736.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1749.2	1753.6	1753.9	1749.6	1743.2	1734.8	1725.4	1717.8	1712.2	1709.0	1707.0
23°	1742.2	1745.9	1745.5	1741.5	1734.7	1726.2	1716.3	1708.2	1702.1	1699.9	1697.5
23.5°	1733.4	1738.0	1737.5	1733.1	1726.1	1716.7	1707.0	1697.9	1691.7	1688.7	1687.0
24°	1725.1	1729.8	1729.6	1724.3	1716.9	1707.6	1696.5	1687.7	1681.3	1678.2	1676.9
24.5°	1717.2	1721.3	1720.7	1715.9	1707.4	1697.8	1687.8	1678.1	1670.8	1667.3	1665.5
25°	1708.7	1713.2	1711.8	1707.0	1698.6	1688.0	1677.5	1667.6	1660.0	1655.7	1654.9
25.5°	1699.5	1704.1	1703.1	1697.7	1690.0	1678.2	1666.8	1656.7	1649.4	1645.2	1643.4
26°	1690.6	1694.4	1694.0	1687.8	1680.2	1667.8	1655.9	1645.3	1637.4	1632.8	1632.6
26.5°	1681.2	1685.7	1683.7	1679.1	1669.4	1657.5	1644.9	1634.4	1626.3	1622.1	1620.4
27°	1671.9	1677.1	1674.6	1668.8	1659.3	1647.3	1634.2	1623.1	1614.8	1609.5	1609.5
27.5°	1662.7	1667.5	1665.8	1658.6	1649.2	1636.1	1624.2	1611.5	1602.1	1598.5	1597.3
28°	1652.7	1657.9	1656.3	1649.1	1638.9	1625.5	1611.5	1600.3	1590.7	1586.1	1584.6
28.5°	1642.9	1648.0	1646.3	1639.3	1628.9	1614.9	1600.4	1588.5	1577.9	1572.6	1572.0
29°	1633.9	1638.4	1636.4	1628.8	1617.5	1603.4	1589.1	1576.2	1566.9	1561.4	1560.0
29.5°	1623.8	1628.5	1625.9	1618.8	1606.7	1592.2	1577.9	1564.0	1553.0	1548.5	1548.4
30°	1613.1	1617.4	1615.5	1607.3	1595.7	1580.5	1565.1	1551.6	1540.9	1535.2	1535.7
30.5°	1603.0	1607.1	1605.0	1597.3	1584.6	1568.4	1553.1	1539.1	1526.8	1522.6	1521.8
31°	1592.8	1597.3	1594.1	1586.6	1573.8	1557.2	1540.4	1526.2	1515.2	1509.7	1508.3
31.5°	1582.0	1586.7	1583.5	1574.9	1562.4	1545.6	1527.9	1513.0	1501.9	1496.0	1494.7
32°	1570.3	1574.9	1572.2	1563.1	1550.1	1532.8	1515.6	1500.4	1488.6	1482.2	1481.8
32.5°	1559.2	1563.7	1561.0	1551.3	1538.1	1520.4	1503.1	1487.5	1476.1	1468.6	1468.4
33°	1548.5	1553.0	1549.6	1540.7	1526.2	1508.5	1490.5	1473.9	1462.2	1455.4	1455.0
33.5°	1537.0	1541.4	1538.3	1529.2	1514.5	1496.0	1477.5	1461.0	1448.0	1441.2	1440.8
34°	1525.1	1530.4	1526.6	1516.8	1502.4	1482.8	1463.7	1447.0	1434.2	1427.0	1426.9
34.5°	1513.0	1518.5	1514.9	1504.9	1490.2	1470.0	1450.3	1432.4	1419.8	1413.3	1412.5
35°	1501.8	1506.8	1503.4	1493.0	1477.2	1457.1	1437.2	1418.8	1405.2	1398.9	1398.7
35.5°	1490.2	1494.7	1491.9	1480.9	1464.3	1443.7	1423.5	1405.1	1391.1	1384.8	1384.3
36°	1478.1	1483.4	1478.8	1468.6	1451.9	1430.6	1409.9	1391.1	1376.6	1370.5	1369.8
36.5°	1465.6	1470.4	1466.7	1455.4	1439.4	1417.6	1396.2	1376.6	1362.4	1355.1	1355.9
37°	1453.6	1457.8	1454.2	1443.1	1426.2	1404.4	1382.6	1362.9	1347.2	1340.7	1341.1
37.5°	1441.7	1445.3	1441.6	1430.5	1412.9	1390.8	1368.2	1348.3	1333.1	1326.0	1326.2
38°	1429.9	1432.8	1429.5	1417.1	1399.6	1376.9	1354.0	1333.8	1318.8	1310.9	1310.7
38.5°	1416.6	1420.2	1415.6	1404.2	1386.0	1363.1	1339.8	1319.0	1304.1	1297.0	1296.4
39°	1402.8	1407.4	1403.0	1390.9	1372.5	1349.4	1325.8	1304.5	1289.7	1281.5	1280.9
39.5°	1389.3	1394.9	1390.0	1377.9	1358.6	1334.8	1311.6	1289.9	1274.0	1266.9	1266.9
40°	1376.2	1381.4	1377.1	1363.8	1345.1	1320.4	1296.4	1275.3	1259.0	1251.6	1251.7
40.5°	1363.8	1368.0	1363.9	1350.8	1331.1	1306.5	1281.9	1260.2	1243.7	1236.4	1235.9
41°	1350.6	1354.6	1350.4	1336.9	1317.2	1292.0	1267.4	1245.5	1228.8	1221.5	1220.6
41.5°	1336.8	1340.9	1336.3	1323.6	1303.2	1277.8	1252.3	1230.1	1212.9	1205.8	1205.7
42°	1323.7	1328.1	1323.1	1309.1	1289.5	1263.8	1238.4	1215.4	1198.6	1191.4	1190.3
42.5°	1310.5	1314.5	1309.2	1296.0	1274.4	1249.0	1223.5	1200.6	1183.5	1175.7	1175.1
43°	1296.6	1300.5	1295.5	1281.0	1260.2	1234.2	1208.5	1185.2	1168.2	1160.8	1160.1
43.5°	1282.1	1286.8	1281.3	1267.6	1246.6	1219.7	1193.3	1170.1	1152.8	1145.0	1145.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	1240.0	1244.3	1238.8	1224.2	1203.1	1175.3	1148.5	1124.6	1107.0	1099.1	1098.9
45.5°	1226.2	1230.2	1224.4	1209.6	1187.8	1160.4	1133.6	1109.4	1092.2	1083.5	1083.6
46°	1211.4	1215.9	1210.3	1195.3	1173.1	1145.4	1118.1	1094.3	1077.5	1067.8	1068.7
46.5°	1196.4	1201.0	1195.5	1180.6	1158.3	1130.3	1102.7	1079.2	1061.4	1053.5	1053.7
47°	1181.8	1186.8	1181.8	1166.0	1143.8	1115.4	1087.7	1063.7	1046.0	1038.3	1037.9
47.5°	1167.7	1172.0	1166.9	1152.0	1129.3	1100.5	1073.1	1048.1	1030.9	1023.1	1022.6
48°	1153.5	1157.6	1152.0	1137.4	1114.7	1085.4	1058.0	1033.3	1016.2	1007.4	1008.2
48.5°	1138.4	1142.2	1136.8	1122.2	1099.5	1070.5	1043.2	1018.3	1000.5	992.8	993.1
49°	1124.2	1128.7	1121.9	1106.6	1084.5	1055.6	1027.8	1003.4	985.9	977.4	977.4
49.5°	1109.2	1113.2	1108.2	1092.3	1069.1	1040.4	1013.1	988.3	970.6	962.4	962.9
50°	1094.2	1098.8	1092.8	1077.7	1054.0	1025.2	998.2	973.2	956.4	947.2	947.6
50.5°	1078.9	1083.6	1077.9	1063.1	1039.4	1010.4	983.0	958.1	940.6	932.6	932.3
51°	1064.1	1068.7	1062.5	1047.1	1024.5	995.4	968.0	943.7	926.7	917.6	917.1
51.5°	1048.9	1053.6	1047.5	1032.6	1009.5	980.4	952.7	928.6	911.1	903.9	903.1
52°	1034.2	1038.8	1033.0	1017.3	994.2	965.8	938.2	914.3	896.9	888.2	888.5
52.5°	1018.6	1023.1	1016.9	1002.1	979.0	950.3	923.2	899.5	882.7	874.2	874.0
53°	1003.5	1008.1	1002.3	986.8	963.8	935.3	908.3	884.8	868.2	859.2	858.9
53.5°	988.2	992.5	986.7	971.8	948.6	920.5	893.7	870.3	852.6	845.4	844.4
54°	973.0	977.1	971.7	957.0	933.8	905.4	879.0	855.5	838.8	830.4	830.7
54.5°	957.5	962.1	956.1	941.6	919.2	890.4	863.7	840.8	824.0	816.2	816.1
55°	941.8	946.8	941.3	926.4	903.5	875.2	849.1	826.3	810.2	803.1	801.4
55.5°	926.8	931.3	925.6	911.5	889.1	860.9	834.5	811.6	795.5	788.3	787.0
56°	911.0	915.6	910.6	896.1	874.0	846.6	820.6	797.3	781.7	773.9	773.4
56.5°	895.8	900.6	895.2	881.0	859.2	831.6	805.6	783.4	767.8	760.1	759.5
57°	880.9	884.8	879.6	865.6	843.6	816.8	791.1	769.2	753.3	746.3	745.5
57.5°	864.8	870.0	863.7	850.7	829.2	802.4	776.9	754.9	739.9	732.4	731.5
58°	849.1	853.8	849.3	834.8	813.3	787.8	762.8	741.3	726.0	718.1	718.3
58.5°	834.0	838.5	833.3	820.1	798.8	772.8	748.2	727.0	712.3	704.8	704.3
59°	818.1	823.5	818.0	804.9	784.0	758.4	734.0	712.9	699.1	691.9	690.7
59.5°	802.7	807.2	802.5	789.8	769.2	743.9	720.1	699.8	685.6	679.0	676.6
60°	786.7	791.8	787.5	774.4	754.1	729.4	705.8	686.3	672.3	665.4	663.3
60.5°	771.3	775.8	771.8	759.4	740.2	715.2	692.6	673.2	658.7	651.8	650.0
61°	755.7	760.0	756.3	744.5	725.4	701.2	675.0	659.3	645.2	638.2	636.6
61.5°	740.2	745.2	740.5	728.4	710.1	686.7	660.9	645.5	631.6	624.6	623.3
62°	724.5	729.7	725.9	713.9	694.9	671.9	648.0	631.8	618.0	610.9	610.0
62.5°	708.9	713.6	710.5	699.2	680.7	657.9	635.1	618.2	604.5	597.7	596.7
63°	693.2	698.3	694.9	684.1	666.0	643.8	622.2	604.6	591.8	585.1	584.0
63.5°	677.8	682.3	679.4	668.4	651.3	629.7	609.3	591.5	579.0	572.5	571.5
64°	661.9	666.5	663.5	655.0	636.5	615.6	595.5	578.8	566.4	560.0	558.7
64.5°	645.9	650.7	648.0	650.0	622.2	601.5	582.4	565.7	553.7	547.2	545.8
65°	630.1	634.9	632.7	632.0	608.7	587.5	569.3	552.9	541.1	535.1	533.5
65.5°	614.0	619.1	617.3	614.0	594.0	573.6	555.8	540.1	528.7	522.4	520.9
66°	598.1	603.3	601.9	596.0	579.3	560.1	542.7	527.4	516.5	510.1	509.0





TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	551.5	556.5	555.9	548.9	536.5	519.9	504.0	490.5	479.9	473.9	472.4
68°	536.3	541.2	540.6	534.4	522.4	506.5	491.1	478.1	468.2	462.3	460.7
68.5°	520.6	525.7	525.9	519.2	508.2	493.0	478.6	465.7	456.4	450.8	448.2
69°	505.0	510.4	510.7	505.5	494.4	479.6	466.1	453.8	444.0	438.9	437.0
69.5°	489.6	495.5	495.6	491.0	481.0	466.6	453.6	441.6	432.3	427.0	425.2
70°	474.0	479.9	480.7	476.6	467.1	453.8	441.2	429.5	420.8	415.3	413.5
70.5°	458.6	464.5	465.8	462.0	453.9	441.1	429.0	417.9	409.6	404.2	401.9
71°	443.4	448.9	451.0	448.0	439.9	428.1	416.7	406.2	398.2	393.0	390.9
71.5°	428.1	434.0	435.8	433.4	426.5	415.3	404.7	394.7	386.5	381.7	379.7
72°	413.0	418.8	421.4	419.1	413.0	402.6	392.4	383.1	375.3	370.3	368.3
72.5°	397.9	403.6	406.8	405.2	399.4	389.8	380.7	371.4	364.1	359.8	357.2
73°	382.4	388.6	392.5	391.6	386.5	377.3	368.6	360.0	353.2	348.6	346.0
73.5°	366.9	373.8	377.6	377.6	373.2	365.6	356.9	348.8	342.1	337.7	335.2
74°	352.3	358.5	363.2	364.0	360.2	353.1	345.4	337.6	331.6	326.9	324.4
74.5°	337.4	344.1	348.9	350.0	347.4	340.6	334.0	326.7	320.8	316.5	314.3
75°	322.6	329.4	334.7	336.4	334.5	328.6	322.5	315.9	310.2	306.0	303.5
75.5°	307.6	315.0	320.3	322.9	321.9	316.7	311.2	305.0	299.5	295.7	293.1
76°	293.0	300.2	306.4	309.8	308.8	304.7	300.1	294.3	289.3	285.5	282.6
76.5°	278.6	286.1	292.5	296.3	296.6	293.1	288.7	283.6	279.0	275.4	272.5
77°	264.3	271.5	278.7	283.2	284.4	281.7	277.9	273.0	268.8	265.1	262.2
77.5°	249.7	257.6	265.2	270.1	272.1	270.3	267.1	262.9	258.6	255.4	252.4
78°	236.0	243.6	251.4	257.6	260.0	259.1	256.5	252.7	249.1	245.7	242.8
78.5°	221.8	230.0	238.0	244.8	248.1	247.8	245.7	242.6	239.5	236.0	233.2
79°	207.9	216.3	225.1	232.4	236.2	236.6	235.5	232.7	229.7	226.5	223.6
79.5°	194.3	202.5	212.0	220.0	224.7	225.8	225.4	223.0	220.3	217.5	214.4
80°	181.5	189.4	199.0	207.9	213.4	215.2	215.2	213.4	211.1	208.4	205.3
80.5°	168.2	176.5	186.7	195.9	202.1	204.8	205.3	204.0	202.1	199.2	196.3
81°	155.3	163.8	174.4	184.2	191.1	194.5	195.8	194.8	193.2	190.4	187.5
81.5°	142.7	151.3	162.4	172.6	180.4	184.2	186.3	186.0	184.6	182.1	179.0
82°	130.3	138.9	150.3	161.4	169.7	174.5	177.0	177.2	176.0	173.6	170.5
82.5°	117.7	127.0	139.1	150.4	159.3	165.0	167.9	168.5	167.5	165.2	162.1
83°	106.6	115.5	127.6	139.8	149.2	155.6	159.1	159.9	159.3	157.4	154.2
83.5°	95.4	104.4	116.7	129.4	139.6	146.2	150.5	151.8	151.7	149.5	146.4
84°	84.7	93.6	106.1	119.2	130.0	137.4	142.1	143.9	143.7	141.9	138.8
84.5°	74.1	83.1	96.1	109.4	120.8	128.8	133.7	136.1	136.2	134.5	131.5
85°	64.5	73.2	86.2	100.1	112.1	120.5	125.8	128.5	128.9	127.3	124.2
85.5°	56.1	64.2	77.1	91.2	103.4	112.4	118.2	121.1	121.6	120.1	117.2
86°	47.7	56.0	68.1	82.7	95.4	104.8	110.8	114.0	114.7	113.4	110.4
86.5°	39.3	47.9	60.9	74.5	87.5	97.3	103.6	107.2	108.1	106.9	103.9
87°	31.0	39.8	53.7	66.2	80.1	90.0	96.8	100.7	101.7	100.8	97.6
87.5°	23.7	31.6	46.6	60.0	72.9	83.2	90.2	94.2	95.4	94.5	91.6
88°	17.2	24.9	39.4	53.8	65.9	76.7	83.9	88.0	89.5	88.6	85.7
88.5°	11.5	19.1	32.3	47.5	60.5	70.3	77.7	82.2	83.7	82.9	80.2



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	3.7	6.7	17.8	31.2	44.1	54.8	62.6	66.4	68.1	67.4	65.4
90.5°	2.0	5.5	14.3	26.9	39.3	50.0	58.0	62.2	64.0	63.3	61.2
91°	0.4	4.3	11.6	23.1	35.1	45.3	53.4	57.9	59.9	59.3	57.1
91.5°	0.3	3.1	9.4	20.0	31.2	41.0	48.7	53.7	55.8	55.3	52.9
92°	0.3	1.9	7.7	17.1	27.7	37.2	44.5	49.4	51.6	51.3	48.8
92.5°	0.2	1.5	6.8	14.8	24.7	33.8	40.8	45.4	47.5	47.3	45.2
93°	0.2	1.2	6.0	12.8	21.9	30.6	37.4	41.9	44.1	44.0	41.8
93.5°	0.2	1.0	5.2	11.2	19.5	27.7	34.3	38.7	40.8	40.7	38.8
94°	0.3	0.8	4.3	9.9	17.4	25.1	31.5	35.7	37.8	37.8	35.9
94.5°	0.3	0.7	3.9	8.9	15.7	22.8	28.8	32.9	35.0	35.0	33.3
95°	0.4	0.6	3.6	8.1	14.2	20.7	26.4	30.4	32.5	32.5	30.8
95.5°	0.5	0.6	3.2	7.6	12.9	18.9	24.3	28.1	30.1	30.2	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	26.0	26.1	24.8
97°	0.7	0.8	2.3	6.1	10.5	14.9	19.2	22.5	24.2	24.4	23.2
97.5°	0.8	0.8	2.1	5.7	9.9	14.0	18.0	21.0	22.7	22.9	21.7
98°	0.8	0.9	2.0	5.3	9.4	13.3	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	18.6	20.0	20.3	19.4
99°	1.0	1.0	1.6	4.6	8.3	12.1	15.2	17.6	19.0	19.2	18.4
99.5°	1.1	1.0	1.5	4.3	7.9	11.5	14.5	16.8	18.1	18.4	17.6
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	16.3
101°	1.5	1.3	1.4	3.5	6.7	9.9	12.8	14.9	16.1	16.3	15.7
101.5°	1.6	1.4	1.4	3.2	6.3	9.5	12.2	14.3	15.5	15.8	15.1
102°	1.7	1.4	1.4	3.0	6.0	9.0	11.7	13.8	15.0	15.2	14.6
102.5°	1.8	1.5	1.4	2.8	5.6	8.6	11.2	13.2	14.4	14.7	14.1
103°	1.9	1.6	1.4	2.6	5.3	8.2	10.7	12.6	13.8	14.1	13.6
103.5°	1.9	1.6	1.4	2.4	4.9	7.7	10.2	12.2	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	13.1	12.6
104.5°	2.0	1.8	1.3	2.1	4.3	7.0	9.4	11.2	12.3	12.6	12.1
105°	2.0	2.0	1.3	2.0	4.0	6.6	8.9	10.7	11.9	12.1	11.6
105.5°	2.0	2.2	1.3	1.9	3.8	6.3	8.5	10.3	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	11.3	10.8
106.5°	2.0	2.0	1.4	1.8	3.3	5.6	7.8	9.4	10.5	10.8	10.4
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	8.3	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	7.6	8.6	8.9	8.5
109.5°	2.1	2.1	1.5	1.5	2.4	4.0	5.7	7.2	8.3	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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	2.6	3.5	4.7	5.5	5.8	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	2.2	1.8	1.8	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	4.3	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	2.6	2.6	2.2	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	3.5
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	2.2	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°	2.6	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	2.6	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	3.5
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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	3.5	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	3.7	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	3.7	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	4.3	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	4.5	4.2	4.2	4.4	4.6
142.5°	3.0	3.5	3.5	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	3.9	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	5.1	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	4.7	5.0	5.3	5.5	5.7
148°	3.0	3.6	3.6	3.3	3.6	4.4	4.7	5.0	5.3	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	4.7	4.9	5.3	5.5	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	3.5	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	3.9	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	3.7	3.5	3.4	3.7	4.2	4.7	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	4.7	4.8	4.9
156°	2.2	3.2	3.7	3.6	3.5	3.6	3.9	4.3	4.5	4.7	4.8



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	3.7	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	3.9	3.9	3.8	3.8	3.9	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	4.1
165.5°	2.1	2.5	3.4	3.7	4.0	4.1	4.1	4.1	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	4.1	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	4.3
169°	2.3	2.3	3.2	3.5	3.8	4.1	4.2	4.2	4.3	4.2	4.3
169.5°	2.3	2.6	2.8	3.5	3.5	3.9	4.2	4.2	4.3	4.3	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	4.3	4.3
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	3.5	3.7	3.9	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	4.1	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	3.7	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	3.7	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	3.7	3.6	3.4	3.1	2.9	2.9	3.2	3.5	3.6	3.5



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9
0.5°	1924.3	1924.2	1924.1	1923.9	1923.7	1923.5	1923.2	1923.1	1923.1	1923.1	1923.1
1°	1924.3	1924.5	1924.7	1924.9	1924.7	1924.3	1923.8	1923.3	1922.9	1922.6	1922.6
1.5°	1924.8	1924.6	1924.1	1923.2	1922.6	1922.6	1922.6	1922.4	1921.9	1921.6	1921.6
2°	1924.7	1923.3	1921.7	1921.7	1921.6	1920.9	1920.7	1920.8	1920.4	1920.2	1920.2
2.5°	1923.2	1923.0	1923.2	1922.0	1921.9	1921.4	1920.3	1920.1	1919.7	1919.5	1919.0
3°	1922.4	1922.0	1921.6	1920.7	1920.8	1920.4	1920.0	1919.3	1917.8	1916.5	1916.9
3.5°	1920.9	1920.5	1920.4	1920.5	1919.6	1918.2	1917.9	1918.2	1915.9	1915.1	1914.8
4°	1920.5	1919.6	1918.9	1918.9	1918.6	1917.6	1916.2	1916.6	1915.4	1913.8	1912.5
4.5°	1917.0	1918.1	1916.2	1917.4	1917.5	1916.1	1914.6	1913.6	1913.0	1911.7	1910.7
5°	1916.2	1916.1	1915.8	1914.9	1915.3	1914.6	1913.2	1912.1	1911.3	1910.1	1907.7
5.5°	1915.1	1914.3	1913.9	1912.8	1913.3	1911.9	1911.6	1910.3	1909.5	1908.1	1905.4
6°	1912.9	1912.0	1911.1	1910.8	1910.5	1909.8	1909.3	1907.9	1906.7	1905.8	1902.4
6.5°	1910.2	1909.5	1909.0	1908.3	1907.7	1908.5	1907.2	1905.5	1903.3	1903.2	1899.8
7°	1907.8	1906.6	1907.2	1905.9	1905.6	1905.7	1904.8	1902.4	1900.4	1899.5	1897.2
7.5°	1904.6	1903.8	1904.0	1904.0	1902.5	1902.6	1901.5	1900.3	1897.2	1896.7	1894.6
8°	1901.6	1901.2	1900.6	1900.8	1900.2	1900.2	1897.7	1896.5	1894.4	1893.6	1890.5
8.5°	1897.7	1897.8	1897.2	1896.9	1897.4	1896.3	1896.0	1893.5	1892.2	1889.8	1887.1
9°	1893.9	1894.3	1893.8	1893.8	1894.3	1892.8	1892.2	1890.8	1887.8	1886.0	1883.5
9.5°	1890.7	1890.9	1889.8	1890.0	1890.2	1889.9	1888.0	1886.5	1883.4	1882.0	1878.8
10°	1886.5	1886.7	1885.8	1886.9	1886.4	1884.7	1884.9	1882.9	1880.0	1878.0	1874.7
10.5°	1882.2	1882.8	1881.0	1883.0	1882.3	1881.4	1881.4	1879.3	1876.6	1873.2	1870.7
11°	1877.0	1878.6	1877.8	1879.3	1878.6	1878.0	1877.4	1875.3	1872.0	1868.4	1865.6
11.5°	1872.2	1873.9	1872.8	1874.2	1874.2	1874.3	1872.8	1870.3	1866.9	1864.4	1860.5
12°	1867.4	1868.5	1868.1	1869.0	1870.1	1869.1	1868.2	1865.9	1862.9	1860.2	1855.6
12.5°	1862.4	1863.7	1863.6	1863.9	1865.5	1864.4	1863.4	1861.5	1858.7	1854.4	1851.1
13°	1857.1	1858.4	1857.8	1858.4	1859.8	1859.3	1859.1	1856.9	1854.2	1849.2	1846.0
13.5°	1851.0	1851.8	1851.9	1853.6	1854.5	1854.2	1854.0	1851.8	1848.1	1843.7	1839.4
14°	1844.7	1846.1	1847.1	1848.5	1849.4	1849.2	1848.7	1847.2	1842.6	1838.3	1833.6
14.5°	1838.4	1840.0	1841.2	1842.6	1844.1	1844.0	1843.4	1841.4	1838.0	1832.3	1827.6
15°	1831.9	1834.4	1835.0	1836.8	1839.1	1838.1	1838.1	1835.3	1832.5	1825.6	1821.5
15.5°	1825.2	1828.5	1829.3	1831.1	1833.3	1832.0	1832.7	1829.5	1826.0	1820.0	1815.3
16°	1818.0	1821.2	1822.6	1824.5	1826.7	1826.5	1826.5	1824.1	1819.8	1814.6	1809.1
16.5°	1811.1	1814.5	1815.9	1817.9	1820.0	1820.5	1820.0	1818.5	1814.2	1808.3	1802.1
17°	1803.7	1806.9	1808.7	1811.1	1814.0	1813.9	1813.8	1812.2	1807.6	1801.3	1794.6
17.5°	1796.2	1800.0	1801.9	1804.2	1807.8	1807.9	1808.6	1805.5	1800.8	1794.7	1787.7
18°	1788.8	1791.7	1794.9	1798.1	1800.7	1800.8	1801.3	1798.4	1793.7	1787.8	1780.1
18.5°	1780.5	1783.2	1787.8	1790.6	1793.8	1793.5	1793.6	1791.9	1786.9	1779.9	1772.1
19°	1771.8	1775.1	1779.5	1782.4	1786.6	1787.0	1787.1	1785.0	1780.5	1772.4	1764.9
19.5°	1763.2	1767.0	1771.4	1775.3	1778.8	1779.4	1779.9	1777.7	1772.9	1765.1	1756.8
20°	1755.5	1759.5	1763.6	1767.6	1771.1	1772.5	1772.4	1770.6	1765.5	1757.4	1748.8
20.5°	1746.7	1750.6	1755.6	1759.0	1763.8	1764.6	1764.6	1763.3	1758.0	1749.6	1740.5
21°	1737.3	1742.5	1746.5	1750.7	1755.3	1757.3	1757.3	1755.2	1750.1	1741.2	1732.2



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1708.7	1713.4	1719.5	1725.7	1730.5	1733.1	1733.1	1730.4	1725.3	1715.5	1706.4
23°	1698.8	1704.0	1710.6	1716.5	1721.8	1724.3	1724.5	1721.7	1716.9	1707.4	1696.5
23.5°	1688.7	1694.2	1700.9	1706.7	1713.4	1716.2	1716.4	1713.7	1708.0	1699.0	1687.4
24°	1677.9	1684.7	1690.8	1697.7	1703.9	1707.0	1707.5	1705.2	1699.5	1689.8	1678.1
24.5°	1667.5	1674.0	1681.2	1687.9	1694.4	1698.1	1699.2	1696.4	1690.3	1680.3	1668.5
25°	1657.3	1663.5	1671.4	1678.3	1685.0	1689.1	1690.4	1687.4	1681.1	1670.5	1658.4
25.5°	1646.3	1653.3	1660.8	1668.1	1675.2	1679.6	1680.7	1677.9	1671.8	1661.1	1648.9
26°	1635.2	1642.6	1650.6	1657.7	1665.7	1669.8	1670.8	1669.1	1662.5	1651.2	1638.6
26.5°	1624.1	1631.1	1639.6	1647.5	1656.2	1660.7	1661.4	1659.3	1652.4	1641.6	1628.3
27°	1612.3	1620.3	1628.8	1637.3	1645.4	1650.5	1651.7	1649.1	1642.8	1631.4	1617.9
27.5°	1600.9	1608.5	1617.9	1626.5	1635.8	1640.3	1641.5	1639.3	1632.8	1621.3	1607.1
28°	1588.7	1597.5	1606.1	1616.2	1624.9	1629.6	1631.2	1629.4	1622.5	1611.0	1596.1
28.5°	1576.8	1585.4	1595.3	1605.2	1613.9	1619.6	1621.2	1619.5	1612.3	1600.2	1585.9
29°	1564.6	1573.6	1584.1	1593.3	1603.8	1609.8	1611.3	1608.8	1601.8	1589.7	1574.6
29.5°	1551.7	1560.7	1572.0	1582.0	1592.6	1598.2	1601.1	1598.3	1590.8	1578.8	1562.9
30°	1539.8	1549.2	1560.3	1571.1	1581.4	1588.5	1589.5	1587.6	1579.7	1567.7	1551.8
30.5°	1527.1	1535.8	1548.3	1559.9	1570.0	1577.0	1578.3	1576.2	1569.9	1556.4	1540.2
31°	1513.2	1524.2	1536.4	1547.6	1558.9	1565.2	1568.1	1566.2	1558.4	1544.7	1528.6
31.5°	1500.0	1511.5	1523.9	1535.3	1547.7	1554.4	1556.6	1554.5	1546.6	1533.9	1517.0
32°	1487.1	1498.2	1511.1	1523.8	1535.3	1542.7	1544.9	1543.3	1536.0	1522.1	1504.9
32.5°	1473.7	1485.7	1499.0	1511.5	1523.2	1531.3	1533.7	1532.2	1523.9	1510.5	1493.1
33°	1460.3	1472.0	1486.3	1499.2	1512.2	1519.2	1522.5	1520.1	1512.6	1498.7	1480.3
33.5°	1446.5	1458.8	1473.1	1487.0	1499.5	1507.6	1510.0	1508.8	1500.7	1486.4	1468.0
34°	1432.9	1445.4	1460.1	1474.2	1486.5	1495.5	1498.3	1497.5	1488.9	1474.4	1455.7
34.5°	1419.6	1431.7	1446.9	1461.2	1474.5	1483.8	1486.6	1485.1	1476.2	1462.6	1444.6
35°	1405.3	1417.6	1433.5	1447.9	1462.3	1471.1	1474.7	1472.8	1464.5	1450.1	1432.5
35.5°	1390.4	1404.4	1420.0	1435.0	1449.5	1458.0	1462.1	1460.5	1452.4	1438.4	1418.9
36°	1376.1	1390.2	1406.5	1422.4	1436.1	1446.2	1449.8	1448.8	1440.3	1425.2	1405.4
36.5°	1361.8	1375.7	1392.9	1409.3	1423.5	1433.8	1437.5	1436.5	1427.2	1412.0	1391.9
37°	1347.4	1361.9	1379.0	1394.9	1411.1	1421.2	1424.7	1423.4	1414.2	1398.9	1378.4
37.5°	1333.2	1347.3	1365.1	1382.0	1397.5	1408.2	1411.8	1410.4	1401.2	1385.7	1365.0
38°	1318.4	1333.4	1351.5	1368.8	1384.6	1394.7	1398.7	1397.4	1388.3	1372.6	1351.7
38.5°	1304.2	1318.4	1337.7	1354.7	1370.0	1381.3	1385.9	1384.4	1375.3	1359.4	1337.8
39°	1289.2	1304.5	1323.1	1340.6	1357.0	1367.8	1372.5	1371.1	1361.9	1346.0	1324.6
39.5°	1274.8	1289.7	1308.8	1326.7	1343.3	1354.5	1358.8	1357.4	1348.2	1332.8	1310.4
40°	1259.5	1274.8	1294.2	1312.8	1329.6	1341.3	1345.7	1344.1	1335.0	1319.0	1296.8
40.5°	1244.0	1260.2	1279.3	1299.2	1315.3	1327.7	1332.0	1330.2	1321.5	1305.6	1283.1
41°	1228.7	1244.9	1265.1	1284.3	1301.9	1313.3	1318.0	1316.8	1307.8	1292.1	1269.2
41.5°	1214.3	1230.3	1250.6	1269.8	1287.3	1299.6	1304.6	1303.2	1294.4	1277.6	1254.6
42°	1199.5	1216.1	1236.0	1255.6	1273.2	1285.4	1290.1	1289.9	1280.1	1263.0	1240.4
42.5°	1184.6	1200.9	1221.4	1241.2	1258.7	1271.3	1276.4	1275.5	1266.4	1249.5	1225.8
43°	1169.4	1185.0	1206.3	1226.7	1244.7	1258.1	1262.3	1261.4	1252.0	1235.5	1212.8
43.5°	1153.6	1170.7	1191.7	1212.1	1230.7	1243.2	1248.2	1247.2	1237.6	1221.1	1198.0





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1108.7	1125.5	1146.9	1167.8	1187.4	1200.0	1204.9	1204.3	1195.1	1177.5	1154.1
45.5°	1092.9	1109.9	1131.9	1153.1	1171.8	1184.7	1190.8	1190.0	1179.9	1162.9	1139.3
46°	1077.6	1094.5	1116.8	1138.0	1157.0	1170.8	1175.7	1175.1	1165.1	1148.6	1124.7
46.5°	1062.2	1079.9	1101.1	1122.9	1141.8	1155.5	1160.9	1160.1	1150.6	1133.9	1110.1
47°	1047.3	1064.0	1086.1	1108.3	1127.7	1141.4	1146.6	1145.5	1135.7	1118.9	1095.1
47.5°	1032.0	1049.9	1071.0	1093.0	1112.8	1126.6	1130.9	1130.7	1121.2	1104.1	1080.2
48°	1016.8	1033.7	1055.8	1077.8	1097.7	1111.5	1116.2	1115.4	1106.3	1089.4	1065.4
48.5°	1001.8	1018.8	1041.4	1063.1	1081.9	1095.9	1101.0	1100.7	1091.3	1074.3	1049.9
49°	986.4	1004.0	1026.5	1047.8	1067.8	1081.1	1086.3	1085.9	1076.7	1059.1	1035.4
49.5°	971.8	989.0	1011.1	1032.6	1051.9	1066.7	1071.7	1070.7	1061.3	1044.1	1020.7
50°	956.8	973.3	995.9	1017.0	1037.6	1051.3	1056.6	1055.7	1046.3	1029.4	1005.4
50.5°	941.8	958.5	980.6	1002.5	1022.2	1036.2	1041.3	1040.5	1031.4	1014.0	990.0
51°	926.5	943.5	965.6	987.6	1007.3	1020.7	1025.7	1025.1	1015.5	998.8	975.1
51.5°	912.1	929.3	950.4	972.4	991.6	1006.1	1010.4	1010.0	1000.6	984.1	959.9
52°	897.3	913.6	935.4	956.8	976.7	989.8	995.6	994.8	985.4	968.2	944.8
52.5°	882.7	898.9	920.4	941.8	961.3	975.0	980.5	980.9	970.0	952.7	929.6
53°	868.1	884.2	905.2	926.8	946.4	959.5	966.0	965.4	954.5	937.7	914.7
53.5°	853.3	869.7	890.6	911.5	931.2	944.6	952.2	948.4	939.3	922.9	899.5
54°	838.7	853.7	875.9	896.3	915.9	928.9	935.7	932.8	923.5	907.2	884.7
54.5°	824.5	839.8	860.6	881.4	900.1	914.1	918.7	917.5	908.3	892.1	869.6
55°	809.6	825.5	845.9	866.4	885.2	898.4	903.2	901.8	892.7	876.8	854.2
55.5°	795.0	811.0	831.5	851.5	869.6	883.1	887.2	886.0	877.0	861.3	838.9
56°	780.7	796.1	816.5	836.1	854.4	867.0	871.8	872.3	862.0	845.9	824.0
56.5°	766.7	781.7	801.6	821.2	839.2	851.6	857.1	856.6	846.7	830.6	808.9
57°	752.9	767.3	786.5	806.4	824.0	836.4	843.5	839.1	831.5	815.3	793.8
57.5°	738.6	753.3	771.8	792.0	808.7	821.2	827.2	823.9	814.9	799.8	778.8
58°	724.5	739.0	757.8	776.9	793.1	805.7	809.2	808.4	799.5	784.5	763.6
58.5°	710.9	724.5	742.8	761.3	777.8	789.9	793.8	793.1	783.9	769.7	748.5
59°	697.2	710.4	728.0	746.1	763.1	774.4	778.5	777.7	768.8	753.9	733.3
59.5°	683.2	696.7	713.7	731.4	748.0	759.9	764.2	760.9	752.8	738.4	718.7
60°	669.9	682.9	699.3	717.0	733.9	744.6	748.1	745.4	737.3	723.2	703.1
60.5°	656.3	668.9	685.3	702.2	719.1	728.3	730.9	730.0	721.2	707.7	688.4
61°	642.8	655.0	671.5	687.7	703.0	712.1	715.0	714.5	706.0	692.2	673.6
61.5°	629.3	641.0	657.1	673.7	687.2	697.1	700.0	698.3	689.8	676.7	658.2
62°	615.8	627.0	642.8	658.8	676.6	683.4	685.4	682.8	674.3	661.8	643.4
62.5°	602.2	613.1	628.4	644.5	660.6	678.3	665.4	666.7	659.0	646.4	628.3
63°	588.8	599.6	613.9	629.3	645.7	659.5	650.0	651.5	643.6	631.1	614.2
63.5°	576.0	586.3	599.6	614.0	629.0	641.3	635.0	635.5	627.4	616.0	599.3
64°	563.3	573.0	585.7	599.1	612.2	623.1	619.8	619.5	612.2	600.8	584.4
64.5°	550.4	559.5	572.0	584.7	596.8	604.9	604.7	603.9	596.7	585.4	569.5
65°	537.6	546.5	558.6	570.7	581.5	588.6	589.2	588.6	581.4	570.1	555.4
65.5°	525.0	533.6	544.8	556.2	566.6	572.9	574.3	572.7	565.7	555.1	540.5
66°	512.2	520.6	530.9	542.3	551.7	559.1	558.9	557.0	550.4	540.1	525.8



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	475.6	482.0	491.5	500.5	508.1	512.3	511.8	510.5	504.2	495.1	482.8
68°	463.2	469.6	478.3	486.4	493.3	497.5	496.2	495.2	488.9	480.0	467.9
68.5°	451.2	457.0	464.7	472.5	478.8	482.3	481.5	479.6	473.2	465.0	454.0
69°	439.0	444.2	451.8	458.5	464.2	467.3	465.9	464.0	457.9	450.4	439.7
69.5°	426.8	431.6	438.8	445.1	450.3	452.8	450.8	448.2	442.9	435.7	425.9
70°	414.7	419.6	426.0	431.8	436.1	437.4	435.0	433.3	427.9	420.9	411.7
70.5°	403.4	407.5	413.4	418.2	421.7	422.4	420.0	418.0	412.3	406.5	397.6
71°	391.9	395.6	400.7	405.0	407.6	407.9	404.6	402.9	397.7	391.5	383.5
71.5°	380.2	383.8	388.0	391.4	393.6	393.0	389.6	387.6	382.6	377.2	369.9
72°	368.6	371.7	375.4	378.3	379.7	378.5	374.8	372.5	367.5	362.6	356.2
72.5°	357.4	359.6	363.0	365.1	366.1	364.2	359.9	357.3	352.6	348.5	342.7
73°	346.0	347.8	350.6	352.1	352.5	349.7	345.0	342.2	337.8	334.1	328.8
73.5°	334.9	336.2	338.4	339.3	338.8	335.5	330.3	327.4	323.3	320.0	315.6
74°	324.2	324.9	326.6	326.8	325.2	321.3	315.6	312.7	309.0	305.9	302.2
74.5°	313.1	313.6	314.6	314.0	311.7	307.3	300.9	297.7	294.4	291.7	289.3
75°	302.2	302.2	302.6	301.1	298.3	293.3	286.6	283.3	280.2	278.2	276.3
75.5°	291.6	291.2	290.8	288.8	285.3	279.4	272.4	268.9	265.7	264.7	263.6
76°	281.1	280.3	279.2	276.6	272.3	265.8	258.2	254.6	251.8	251.2	250.5
76.5°	270.7	269.3	267.7	264.2	259.5	252.3	243.9	240.3	237.9	238.0	238.3
77°	260.3	258.5	256.6	252.7	246.6	238.8	230.4	226.4	224.3	224.7	225.9
77.5°	250.1	248.0	245.4	240.7	234.1	225.6	216.5	212.6	210.5	212.0	213.9
78°	240.2	237.6	234.2	229.0	221.7	212.6	203.3	199.0	197.4	199.0	201.4
78.5°	230.4	227.3	223.6	217.7	209.7	199.9	190.1	185.6	184.2	186.6	190.0
79°	220.7	217.4	212.9	206.4	197.8	187.3	177.1	173.0	171.8	175.0	179.1
79.5°	211.2	207.4	202.4	195.0	186.1	174.9	164.1	160.3	159.5	163.4	168.2
80°	201.8	197.7	192.2	184.3	174.5	162.6	151.7	147.7	147.1	151.7	157.3
80.5°	192.6	188.1	182.1	173.3	163.1	151.0	139.6	135.0	134.8	140.1	146.4
81°	183.8	178.9	172.3	163.2	152.1	139.5	127.7	122.9	123.1	128.5	135.5
81.5°	175.0	169.7	162.7	152.9	141.6	128.4	116.0	110.7	111.9	117.6	125.3
82°	166.2	160.7	153.4	143.3	130.9	117.4	104.8	99.4	100.6	107.0	115.3
82.5°	157.8	152.0	144.3	133.5	120.9	106.8	94.2	88.8	90.0	97.0	105.9
83°	149.7	143.6	135.4	124.4	111.2	96.6	83.7	78.2	79.9	87.4	96.8
83.5°	141.7	135.5	126.9	115.4	101.7	87.0	73.9	68.4	70.5	78.0	88.0
84°	134.0	127.6	118.7	106.7	92.7	77.6	64.5	58.8	61.0	69.1	79.7
84.5°	126.6	119.8	110.5	98.1	84.0	68.7	56.5	49.8	52.3	60.7	71.8
85°	119.2	112.3	102.7	90.4	75.8	61.5	48.5	41.4	44.0	52.9	64.4
85.5°	112.1	105.0	95.3	82.8	68.2	54.3	40.6	33.6	36.5	45.7	57.4
86°	105.3	98.2	88.3	75.6	61.8	47.1	32.6	27.9	29.5	39.1	51.0
86.5°	98.9	91.6	81.5	68.8	55.6	39.9	25.8	22.2	24.9	33.0	44.9
87°	92.5	85.2	74.9	63.3	49.3	32.7	19.9	16.6	20.3	27.7	39.3
87.5°	86.4	78.9	69.0	57.7	43.0	27.1	14.9	10.9	15.7	24.2	34.2
88°	80.5	73.2	63.8	52.1	36.8	22.3	10.6	5.3	11.2	20.7	29.7
88.5°	75.0	67.4	58.8	46.4	31.9	18.2	7.4	2.4	6.8	17.2	25.8



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	60.8	53.7	43.9	32.4	20.3	9.4	3.3	0.7	2.9	8.6	18.1
90.5°	56.5	49.2	39.8	28.8	17.4	7.6	2.0	0.6	2.4	7.4	16.0
91°	52.2	45.1	36.1	25.5	14.9	6.7	1.5	0.4	2.1	6.5	13.9
91.5°	48.1	41.4	32.6	22.6	12.8	5.9	1.2	0.3	1.9	5.8	11.8
92°	44.3	37.8	29.5	20.1	11.2	5.1	1.0	0.3	1.7	5.4	10.8
92.5°	40.9	34.6	26.7	17.9	9.8	4.2	0.8	0.4	1.6	5.1	10.0
93°	37.8	31.7	24.2	16.1	8.8	3.8	0.7	0.5	1.4	4.7	9.3
93.5°	34.9	29.1	22.0	14.4	8.0	3.4	0.6	0.5	1.3	4.5	8.9
94°	32.2	26.6	20.0	13.1	7.4	3.1	0.6	0.6	1.3	4.4	8.5
94.5°	29.6	24.5	18.3	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°	25.4	20.8	15.5	10.5	6.2	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	18.1	13.7	9.4	5.4	2.1	1.0	1.0	1.3	3.9	7.2
97°	20.5	16.9	13.0	9.0	5.1	2.0	1.1	1.1	1.3	3.8	7.1
97.5°	19.3	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	1.4	1.3	3.5	6.9
98.5°	17.3	14.6	11.3	7.8	4.3	1.7	1.4	1.5	1.4	3.5	6.8
99°	16.5	14.0	10.8	7.4	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	6.6
100°	15.3	12.9	9.9	6.7	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	1.8	2.1	1.9	3.4	6.2
101°	14.2	11.9	9.1	6.0	3.2	1.6	1.8	2.3	2.0	3.3	6.1
101.5°	13.7	11.4	8.7	5.7	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	8.0	5.1	2.7	1.6	2.1	2.5	2.3	3.0	5.7
103°	12.2	10.1	7.6	4.9	2.6	1.7	2.3	2.6	2.4	2.9	5.6
103.5°	11.7	9.7	7.3	4.7	2.5	1.8	2.3	2.6	2.4	2.8	5.5
104°	11.3	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	2.4	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	3.9	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	5.1	3.2	2.3	2.4	4.3	3.3	3.8	2.5	4.2
108°	8.1	6.7	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	6.1	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	3.7
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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	4.3	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	4.5	5.9	4.9	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	4.7	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	4.5	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	3.5	4.0	4.6	5.9	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	4.5
128.5°	3.2	3.6	4.2	4.9	6.0	5.1	4.5	3.9	5.2	5.1	4.5
129°	3.3	3.7	4.3	5.0	6.1	5.1	4.5	3.9	5.2	5.1	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	6.4	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	5.8	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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	4.7	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	4.5	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	5.7	6.6	5.9	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	5.1
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	6.5	5.3	5.0	4.5	4.0	4.9	5.5	5.0
141.5°	5.0	5.5	6.4	6.3	5.2	5.0	4.5	4.0	4.8	5.5	5.0
142°	5.0	5.7	6.4	6.3	5.1	5.0	4.6	4.0	4.8	5.5	5.0
142.5°	5.1	5.8	6.4	6.2	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	3.9	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	5.3	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	5.7	4.9	4.9	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	6.2	5.5	4.8	4.9	4.5	3.9	4.6	5.5	5.0
146.5°	5.9	6.1	6.1	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	5.5	5.2
148°	5.9	6.0	5.8	5.0	4.7	4.7	4.3	4.0	4.6	5.4	5.3
148.5°	5.8	6.0	5.7	4.9	4.7	4.6	4.4	4.0	4.5	5.4	5.3
149°	5.8	5.9	5.5	4.9	4.7	4.7	4.4	4.0	4.5	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	4.7	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	5.3	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	4.3	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	4.5	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	5.3
155°	4.9	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	4.3	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	3.5	3.6	4.1	4.6



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	3.5	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	4.5
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	4.1	4.1	4.2	4.2	3.9	3.3	3.4	3.4	3.8	4.2
160°	4.0	4.1	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	4.3	4.3	4.0	3.3	3.3	3.3	3.4	3.5	3.9
163.5°	4.1	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	3.5	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	3.5	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	3.5	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	3.9	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	3.9	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	3.9
175.5°	3.6	3.3	3.2	3.4	3.7	3.9	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	3.7	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	3.7



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9	1923.9
0.5°	1923.2	1923.2	1923.2	1923.3	1923.3	1923.3	1923.4	1923.4	1923.4	1923.5	1923.5
1°	1922.6	1922.6	1922.3	1921.9	1921.5	1921.3	1921.5	1921.9	1922.3	1922.7	1923.0
1.5°	1921.6	1921.6	1921.6	1921.4	1921.3	1921.2	1921.4	1921.7	1921.9	1922.1	1922.4
2°	1919.9	1919.9	1919.7	1919.4	1919.1	1919.0	1919.3	1919.7	1920.3	1920.8	1920.9
2.5°	1918.8	1918.6	1917.8	1917.0	1917.1	1917.4	1917.4	1917.6	1918.2	1919.1	1919.6
3°	1917.0	1916.7	1915.7	1915.3	1915.6	1915.9	1915.8	1915.8	1916.4	1917.1	1917.4
3.5°	1914.0	1913.8	1913.6	1912.9	1913.1	1913.8	1914.1	1914.4	1914.9	1915.5	1916.2
4°	1912.5	1912.3	1911.5	1910.8	1911.1	1911.7	1912.0	1912.2	1912.3	1913.1	1913.8
4.5°	1909.5	1909.1	1908.9	1908.9	1908.8	1908.5	1908.8	1909.3	1909.7	1910.8	1912.3
5°	1907.2	1906.9	1905.8	1905.3	1904.7	1904.5	1905.3	1906.3	1907.5	1909.0	1910.7
5.5°	1904.7	1903.8	1903.1	1902.4	1902.1	1902.4	1902.5	1903.3	1904.8	1906.7	1908.5
6°	1901.2	1900.5	1899.9	1899.3	1899.2	1898.8	1898.8	1899.5	1901.3	1902.7	1905.1
6.5°	1897.9	1896.5	1895.9	1895.5	1895.2	1895.4	1895.5	1896.5	1898.1	1899.9	1902.4
7°	1895.2	1893.8	1892.2	1891.3	1891.6	1892.0	1892.3	1893.3	1895.1	1896.5	1899.9
7.5°	1892.0	1890.6	1888.3	1887.7	1887.0	1886.3	1887.3	1888.9	1890.7	1893.0	1896.2
8°	1887.6	1886.5	1884.5	1883.2	1882.5	1882.7	1883.3	1884.8	1886.7	1888.8	1892.4
8.5°	1883.4	1881.3	1880.2	1879.0	1877.9	1878.3	1878.7	1880.4	1882.8	1885.1	1888.6
9°	1878.6	1876.8	1875.5	1873.9	1873.6	1873.6	1873.7	1875.3	1878.3	1881.6	1885.8
9.5°	1874.7	1872.6	1870.1	1869.1	1868.5	1868.2	1868.5	1870.6	1873.5	1877.0	1881.5
10°	1871.5	1867.9	1865.5	1863.9	1863.3	1863.3	1863.2	1865.3	1868.8	1872.6	1876.8
10.5°	1866.0	1863.1	1860.1	1858.2	1857.4	1856.5	1857.9	1860.4	1863.6	1867.8	1873.0
11°	1860.6	1857.7	1854.6	1852.8	1851.8	1851.6	1852.1	1854.3	1858.3	1862.3	1868.0
11.5°	1855.2	1851.9	1848.8	1846.7	1845.9	1845.1	1846.3	1848.6	1852.7	1858.2	1862.3
12°	1850.6	1846.1	1842.7	1840.8	1839.4	1839.0	1840.6	1843.4	1847.2	1853.1	1858.5
12.5°	1845.3	1840.5	1837.1	1834.9	1833.5	1832.1	1834.1	1836.9	1841.1	1846.8	1853.8
13°	1839.6	1834.3	1830.5	1827.9	1825.7	1825.2	1827.5	1830.3	1834.4	1840.9	1847.5
13.5°	1832.9	1827.6	1823.8	1820.7	1818.6	1818.4	1820.5	1823.1	1828.1	1834.4	1842.1
14°	1827.2	1821.4	1817.1	1813.9	1811.6	1812.3	1813.0	1816.3	1821.9	1829.2	1835.4
14.5°	1820.7	1814.2	1810.3	1807.1	1803.7	1804.2	1806.3	1809.2	1814.9	1822.5	1829.8
15°	1814.0	1807.6	1803.4	1799.3	1797.0	1796.6	1798.4	1802.4	1807.5	1815.3	1823.3
15.5°	1807.8	1800.9	1795.5	1791.2	1789.5	1788.4	1790.4	1794.4	1800.6	1808.3	1816.9
16°	1800.9	1793.8	1787.7	1783.0	1780.3	1780.1	1782.0	1786.4	1792.7	1800.8	1809.6
16.5°	1793.6	1786.3	1780.1	1775.1	1772.5	1772.7	1774.3	1778.4	1785.3	1793.5	1802.5
17°	1786.3	1778.6	1772.4	1767.3	1764.6	1764.0	1765.9	1770.2	1777.3	1786.7	1795.5
17.5°	1778.7	1770.7	1764.3	1758.9	1755.8	1755.0	1757.6	1761.6	1768.8	1778.7	1788.9
18°	1770.9	1762.4	1755.7	1749.9	1746.6	1745.5	1747.5	1753.6	1761.0	1770.7	1781.4
18.5°	1762.8	1754.4	1746.5	1740.3	1737.6	1737.0	1739.1	1744.8	1753.1	1762.6	1773.5
19°	1755.4	1745.4	1737.4	1731.2	1729.0	1727.0	1729.1	1735.1	1743.3	1754.0	1764.8
19.5°	1746.2	1736.5	1728.3	1721.9	1719.3	1717.6	1720.1	1725.6	1734.1	1745.9	1757.1
20°	1738.3	1728.3	1719.4	1712.5	1708.7	1708.0	1711.1	1716.5	1725.6	1737.2	1750.0
20.5°	1729.8	1719.1	1710.2	1702.6	1698.3	1697.8	1701.0	1707.4	1716.4	1728.5	1741.8
21°	1720.6	1710.0	1700.5	1692.5	1687.9	1687.7	1690.7	1697.2	1707.1	1719.8	1732.6





TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1693.1	1680.6	1670.2	1662.2	1656.3	1655.4	1658.1	1665.1	1676.5	1691.5	1705.5
23°	1684.1	1670.7	1660.2	1651.3	1645.6	1645.3	1647.5	1655.0	1666.7	1681.6	1697.0
23.5°	1674.0	1660.1	1649.1	1640.2	1635.3	1633.3	1636.1	1643.9	1656.3	1671.2	1687.2
24°	1664.3	1650.0	1638.1	1628.2	1623.4	1621.4	1624.1	1633.2	1645.2	1660.7	1677.0
24.5°	1654.1	1639.8	1626.9	1616.7	1611.9	1609.3	1613.4	1622.8	1635.2	1650.6	1667.4
25°	1645.2	1629.2	1616.7	1605.9	1600.8	1597.7	1601.8	1611.5	1624.2	1640.2	1657.1
25.5°	1633.6	1618.0	1605.4	1594.2	1588.0	1585.9	1589.8	1599.1	1612.4	1629.2	1647.4
26°	1622.9	1606.8	1593.3	1582.7	1576.5	1573.7	1578.0	1587.3	1601.8	1618.9	1637.4
26.5°	1612.3	1595.9	1581.3	1570.6	1564.6	1561.6	1565.1	1575.5	1590.1	1608.0	1626.4
27°	1602.1	1585.3	1570.0	1557.9	1551.5	1549.8	1553.0	1563.1	1578.4	1596.3	1615.6
27.5°	1590.9	1572.8	1557.9	1545.2	1538.2	1537.4	1540.8	1550.7	1566.2	1585.6	1604.4
28°	1579.1	1561.3	1546.1	1532.9	1526.2	1524.2	1528.5	1539.4	1554.9	1573.9	1594.1
28.5°	1568.3	1550.3	1534.1	1521.2	1513.6	1511.1	1515.1	1526.5	1542.8	1561.9	1581.9
29°	1556.9	1537.8	1521.5	1507.8	1500.2	1499.0	1503.1	1513.1	1529.5	1549.7	1570.8
29.5°	1545.3	1525.4	1508.9	1495.0	1487.4	1485.0	1488.5	1500.4	1517.4	1538.4	1560.1
30°	1533.5	1513.1	1496.2	1482.1	1473.8	1471.7	1476.3	1487.9	1505.1	1526.6	1548.4
30.5°	1521.3	1501.1	1483.5	1468.9	1461.2	1458.2	1462.7	1474.4	1492.0	1513.8	1536.2
31°	1509.3	1488.5	1470.6	1455.8	1447.7	1444.7	1449.7	1461.7	1479.3	1501.3	1524.8
31.5°	1497.0	1475.9	1457.6	1442.4	1433.7	1430.8	1435.9	1448.6	1466.8	1489.3	1512.4
32°	1484.4	1463.5	1444.7	1428.4	1419.7	1416.8	1422.0	1434.7	1454.1	1476.7	1500.4
32.5°	1472.8	1450.8	1431.3	1414.4	1405.7	1402.8	1408.2	1420.8	1440.8	1464.3	1488.1
33°	1459.9	1437.4	1417.8	1400.3	1391.7	1388.9	1394.3	1406.9	1427.1	1451.6	1476.1
33.5°	1446.6	1423.9	1404.4	1386.2	1377.7	1374.9	1380.4	1393.0	1413.4	1438.6	1463.6
34°	1435.6	1410.6	1391.1	1373.0	1362.9	1360.6	1365.4	1379.0	1399.8	1425.4	1450.9
34.5°	1422.1	1397.4	1377.5	1359.7	1349.0	1345.9	1351.4	1365.6	1386.2	1412.1	1438.8
35°	1408.6	1383.8	1362.5	1345.4	1334.8	1331.3	1337.4	1351.8	1372.6	1398.8	1425.8
35.5°	1395.3	1370.3	1348.7	1331.3	1320.5	1317.1	1322.9	1337.8	1358.5	1385.5	1412.8
36°	1381.9	1356.9	1335.1	1316.2	1305.5	1302.4	1308.1	1322.2	1344.4	1372.2	1399.8
36.5°	1368.3	1342.9	1320.0	1301.8	1290.4	1287.9	1293.5	1308.4	1330.1	1357.7	1386.8
37°	1354.6	1328.2	1306.0	1287.6	1275.6	1272.4	1278.6	1294.2	1316.0	1343.7	1373.2
37.5°	1341.0	1314.2	1291.7	1273.1	1261.9	1257.8	1264.1	1279.2	1301.3	1329.6	1359.6
38°	1326.7	1299.9	1277.0	1257.6	1246.2	1243.7	1248.9	1264.9	1287.6	1315.8	1345.1
38.5°	1312.9	1286.1	1262.5	1243.3	1231.6	1227.8	1234.4	1250.1	1273.1	1301.9	1331.5
39°	1299.1	1272.0	1247.7	1228.3	1216.9	1213.4	1220.0	1235.7	1258.7	1287.8	1317.9
39.5°	1284.8	1258.0	1233.6	1213.5	1202.3	1198.2	1204.2	1220.4	1243.9	1273.3	1304.2
40°	1271.1	1243.2	1218.9	1199.0	1186.8	1183.3	1189.8	1205.8	1229.1	1259.0	1290.1
40.5°	1257.0	1228.7	1204.2	1183.9	1171.6	1168.2	1174.0	1190.3	1215.2	1244.7	1276.4
41°	1242.8	1214.1	1189.4	1168.5	1156.7	1153.0	1159.8	1176.1	1200.0	1230.4	1261.9
41.5°	1228.2	1199.7	1174.7	1154.1	1141.7	1138.3	1144.2	1161.2	1185.6	1216.0	1247.7
42°	1213.6	1184.8	1159.5	1139.1	1126.1	1122.8	1129.6	1145.8	1170.7	1201.0	1234.2
42.5°	1199.8	1170.7	1144.7	1124.1	1111.3	1108.0	1114.3	1131.2	1156.3	1186.2	1219.0
43°	1185.5	1155.5	1130.2	1109.0	1095.7	1093.2	1099.7	1116.4	1141.4	1172.1	1205.0
43.5°	1170.6	1141.0	1115.1	1093.6	1081.4	1077.7	1084.3	1100.8	1125.8	1157.6	1190.4



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	1126.5	1095.9	1069.8	1048.9	1036.5	1032.2	1038.6	1056.0	1080.8	1113.2	1146.9
45.5°	1111.8	1081.4	1055.6	1033.7	1021.2	1017.5	1024.2	1041.3	1066.2	1098.2	1132.0
46°	1097.0	1066.8	1040.2	1019.0	1006.0	1003.0	1009.4	1026.6	1051.9	1083.4	1117.5
46.5°	1082.0	1051.8	1025.4	1004.0	991.2	987.9	994.3	1011.9	1037.1	1068.6	1102.4
47°	1067.5	1036.5	1010.4	989.1	975.9	972.8	979.6	996.4	1021.9	1053.6	1088.2
47.5°	1052.2	1021.8	995.7	974.2	961.3	958.3	964.7	981.7	1006.9	1038.8	1073.1
48°	1036.9	1007.3	980.1	959.2	946.7	943.0	949.3	966.5	992.0	1023.7	1058.0
48.5°	1022.1	992.1	965.8	944.7	932.2	928.3	935.1	951.8	977.1	1009.0	1042.7
49°	1007.4	977.1	950.9	930.2	917.0	913.5	920.7	937.5	963.0	994.7	1027.9
49.5°	993.2	962.2	936.5	915.5	902.2	899.5	905.8	922.8	947.5	979.5	1013.5
50°	977.0	947.4	921.3	900.5	887.6	884.6	891.7	907.8	933.4	964.3	998.9
50.5°	962.8	932.5	905.8	885.7	873.6	870.3	876.2	892.9	918.3	949.4	983.7
51°	947.6	917.3	891.9	871.4	858.8	856.4	862.3	878.7	903.2	934.7	969.1
51.5°	932.4	902.7	877.5	857.2	844.4	841.7	848.2	864.8	889.0	920.1	953.8
52°	917.1	888.4	863.0	842.9	830.2	827.3	833.8	850.6	874.7	906.0	939.1
52.5°	902.4	873.6	848.4	828.3	816.3	813.9	819.5	836.1	860.4	891.1	924.1
53°	887.6	858.9	833.5	813.8	801.9	799.7	805.5	821.7	845.8	876.2	909.4
53.5°	872.8	844.2	818.9	799.7	787.7	785.3	791.9	807.2	831.5	861.7	895.2
54°	858.0	829.7	804.5	785.7	773.8	770.6	777.1	792.8	816.8	846.9	880.2
54.5°	843.1	814.6	790.2	771.4	759.8	757.4	763.8	778.9	802.7	832.2	864.8
55°	828.1	799.7	776.0	757.6	745.8	743.4	749.5	765.0	788.3	818.1	850.0
55.5°	813.8	785.5	761.8	743.4	732.7	730.1	736.2	751.0	774.0	803.5	834.9
56°	798.6	771.0	747.4	729.7	718.7	716.5	722.5	736.9	759.7	789.0	820.6
56.5°	783.6	756.2	733.7	716.0	704.7	702.5	709.0	723.5	746.0	774.6	805.6
57°	769.0	742.1	719.3	702.2	691.4	689.5	695.4	710.1	731.7	759.9	790.9
57.5°	753.8	728.0	705.8	688.2	677.8	675.8	681.4	695.9	717.9	745.4	776.0
58°	739.3	713.5	691.6	674.7	664.9	662.6	668.5	682.4	703.8	731.0	761.5
58.5°	724.4	699.6	678.0	661.2	651.4	649.6	655.3	668.9	690.3	717.1	747.3
59°	709.9	685.4	663.9	648.0	638.0	636.3	641.9	655.7	676.4	703.0	732.7
59.5°	695.4	670.9	650.6	634.4	624.6	623.1	629.4	642.3	663.0	688.8	718.0
60°	680.7	657.2	637.2	621.0	612.3	610.7	616.0	628.9	649.2	674.8	703.0
60.5°	666.4	643.1	623.4	607.8	599.0	597.3	602.8	615.7	635.8	660.8	688.3
61°	651.6	629.2	609.8	594.8	586.0	584.7	589.8	602.7	622.1	646.8	674.3
61.5°	637.2	615.3	596.6	582.3	574.1	572.0	577.5	589.9	609.0	632.9	659.5
62°	622.5	601.5	583.6	569.0	560.8	559.6	564.7	577.2	595.5	619.3	645.2
62.5°	608.7	587.8	570.1	556.1	548.0	547.2	552.1	564.2	582.4	605.6	630.9
63°	594.5	574.3	556.5	543.2	535.8	534.6	539.5	551.3	569.1	591.7	616.7
63.5°	580.5	560.5	543.5	530.5	523.6	522.3	527.3	538.6	556.0	578.3	602.8
64°	565.9	546.9	531.2	518.1	511.2	510.2	514.7	526.2	542.8	564.8	588.4
64.5°	551.9	533.5	517.9	505.5	498.6	498.1	502.7	513.5	530.0	551.0	574.4
65°	537.9	520.2	505.0	493.3	486.9	485.9	490.7	501.3	517.3	537.8	560.4
65.5°	524.0	506.9	492.7	481.1	474.7	473.9	478.7	489.0	504.8	524.3	546.4
66°	510.5	493.8	480.2	468.5	462.4	461.7	466.1	476.4	491.8	511.2	532.4



TEST NUMBER: P563559

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	468.5	454.1	441.9	432.5	427.3	426.7	431.0	440.4	454.1	471.7	490.5
68°	454.9	441.3	429.5	420.4	415.8	415.5	419.5	428.6	441.5	458.7	477.4
68.5°	441.6	428.3	417.3	408.8	404.4	403.7	407.9	416.9	429.5	445.9	464.0
69°	428.1	415.5	405.2	397.2	392.8	392.6	396.4	405.1	417.3	433.0	450.6
69.5°	414.6	402.9	393.0	385.3	381.1	381.1	384.9	393.3	405.1	420.1	436.8
70°	401.6	390.4	381.2	373.7	370.1	370.3	373.8	381.7	393.0	407.3	423.3
70.5°	387.8	377.8	369.1	362.6	359.1	359.3	362.8	370.2	380.9	395.0	409.7
71°	374.9	365.4	357.6	351.4	348.1	348.2	351.7	358.8	369.3	382.3	397.0
71.5°	362.0	353.1	345.8	340.1	337.0	337.2	340.8	347.5	357.6	370.0	383.6
72°	349.1	341.1	334.3	329.0	326.3	326.8	330.0	336.5	346.0	357.8	370.7
72.5°	336.1	328.9	322.8	318.0	315.6	316.0	319.3	325.6	334.4	345.5	357.5
73°	323.5	317.0	311.3	307.0	304.8	305.4	308.4	314.5	322.6	333.4	345.3
73.5°	310.8	305.1	299.9	296.2	294.6	294.9	298.1	303.5	311.5	321.4	332.2
74°	298.2	293.2	289.0	285.8	284.0	285.1	287.6	292.9	300.3	309.7	319.5
74.5°	285.9	281.7	277.9	275.4	273.9	274.8	277.5	282.5	289.3	297.8	306.7
75°	273.8	270.4	267.3	264.8	263.7	264.6	267.3	271.8	278.3	286.1	294.9
75.5°	261.9	259.1	256.3	254.6	253.8	254.7	257.1	261.4	267.3	274.6	282.5
76°	249.7	247.9	246.1	244.4	243.7	244.8	247.1	251.4	256.9	263.2	270.4
76.5°	238.0	236.7	235.5	234.4	234.1	235.1	237.4	241.3	246.1	251.9	258.3
77°	226.5	225.8	225.5	224.7	224.5	225.7	227.9	231.3	235.8	240.8	246.6
77.5°	214.9	215.2	215.1	215.2	215.4	216.5	218.6	221.5	225.6	230.0	234.4
78°	203.8	205.0	205.3	205.7	206.4	207.4	209.2	212.1	215.7	219.4	223.1
78.5°	193.0	195.0	195.8	196.4	197.3	198.5	200.2	202.7	205.5	208.8	211.7
79°	182.2	184.7	186.3	187.4	188.4	189.7	191.4	193.6	195.9	198.4	200.8
79.5°	172.0	175.1	177.2	178.7	179.9	181.2	183.0	184.6	186.5	188.3	189.4
80°	161.9	166.1	168.7	170.5	172.0	173.0	174.4	175.7	177.5	178.4	179.0
80.5°	151.8	157.0	160.2	162.5	164.2	165.2	166.5	167.5	169.0	169.0	169.0
81°	141.7	147.9	151.7	154.5	156.3	157.5	158.6	159.6	160.4	159.9	159.1
81.5°	132.3	138.8	143.2	146.5	148.5	149.7	150.8	151.6	151.9	150.8	149.1
82°	123.5	130.0	134.8	138.4	140.6	141.9	143.0	143.7	143.3	141.7	139.1
82.5°	114.6	121.9	127.0	130.8	133.3	134.8	135.7	135.8	134.9	132.9	129.4
83°	105.9	113.7	119.4	123.5	126.1	127.7	128.4	128.3	127.0	124.4	120.5
83.5°	97.8	105.9	112.1	116.3	119.0	120.5	121.3	121.0	119.4	116.2	111.5
84°	89.9	98.5	104.9	109.4	112.3	113.9	114.6	114.0	111.9	108.3	103.1
84.5°	82.4	91.5	98.1	102.7	105.8	107.4	107.9	107.1	104.9	100.7	94.7
85°	75.3	84.6	91.4	96.3	99.5	101.1	101.5	100.5	97.9	93.4	87.1
85.5°	68.6	78.1	85.1	90.2	93.3	94.9	95.2	94.2	91.2	86.5	79.7
86°	62.2	71.7	79.1	84.3	87.5	89.1	89.4	88.1	84.8	79.7	72.6
86.5°	56.2	66.0	73.4	78.6	81.9	83.5	83.7	82.2	78.9	73.3	65.8
87°	50.7	60.5	67.9	73.2	76.7	78.3	78.3	76.6	73.1	67.4	59.5
87.5°	45.5	55.2	62.8	68.2	71.6	73.2	73.1	71.4	67.6	61.7	53.6
88°	40.8	50.5	58.0	63.4	66.8	68.2	68.3	66.4	62.4	56.5	48.2
88.5°	36.5	46.0	53.5	58.9	62.1	63.7	63.5	61.6	57.7	51.5	43.2



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	26.0	34.7	41.7	46.9	50.2	51.6	51.2	49.0	44.8	38.7	30.5
90.5°	23.4	31.6	38.4	43.5	46.7	48.0	47.6	45.4	41.2	35.1	27.2
91°	21.0	28.8	35.4	40.4	43.4	44.7	44.3	42.1	37.9	31.9	24.3
91.5°	19.1	26.4	32.7	37.4	40.5	41.6	41.2	39.0	34.9	29.0	21.7
92°	17.8	24.3	30.2	34.8	37.7	38.9	38.4	36.2	32.2	26.6	19.5
92.5°	16.7	22.5	28.1	32.4	35.2	36.3	35.8	33.6	29.7	24.3	18.2
93°	15.6	20.9	26.2	30.3	33.0	34.0	33.5	31.4	27.6	22.4	16.9
93.5°	14.4	19.5	24.6	28.5	31.0	31.9	31.4	29.4	25.7	20.8	15.6
94°	13.2	18.5	23.2	26.9	29.2	30.2	29.6	27.6	24.1	19.4	14.3
94.5°	12.6	17.6	22.0	25.5	27.7	28.5	28.0	26.0	22.7	18.2	13.1
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	16.2	20.1	23.2	25.1	25.8	25.3	23.4	20.4	16.4	11.9
96°	11.3	15.6	19.3	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	23.7	23.1	21.5	18.7	15.1	11.0
97°	10.7	14.7	18.0	20.5	22.1	22.8	22.3	20.8	18.1	14.6	10.5
97.5°	10.5	14.3	17.4	19.8	21.4	22.0	21.6	20.1	17.5	14.0	10.1
98°	10.4	13.8	16.9	19.2	20.7	21.2	20.9	19.5	17.0	13.4	9.6
98.5°	10.2	13.4	16.4	18.7	20.1	20.7	20.3	18.9	16.4	12.9	9.3
99°	10.1	13.2	16.0	18.1	19.5	20.1	19.7	18.3	15.9	12.5	9.1
99.5°	9.9	13.0	15.6	17.7	19.0	19.5	19.1	17.7	15.4	12.0	9.0
100°	9.8	12.8	15.3	17.3	18.5	19.0	18.5	17.2	15.0	11.7	8.9
100.5°	9.7	12.6	15.1	16.9	18.1	18.5	18.0	16.7	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	14.6	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	15.5	13.5	11.1	8.4
102.5°	9.0	12.0	14.1	15.7	16.6	17.0	16.4	15.2	13.3	11.0	8.3
103°	8.8	11.8	13.8	15.5	16.4	16.7	16.2	15.1	13.1	10.9	8.1
103.5°	8.6	11.6	13.7	15.2	16.1	16.5	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	11.2	13.3	14.8	15.7	16.0	15.6	14.5	12.7	10.4	7.4
105°	8.1	10.9	13.1	14.5	15.5	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	12.4	10.0	7.0
106°	7.7	10.4	12.6	14.1	15.0	15.4	15.1	13.9	12.2	9.7	6.8
106.5°	7.6	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	13.4	14.2	14.7	14.3	13.2	11.4	8.9	6.2
108°	7.0	9.6	11.5	13.1	14.0	14.4	14.1	13.0	11.1	8.7	6.1
108.5°	6.8	9.4	11.3	12.8	13.7	14.1	13.8	12.7	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°	6.3	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	11.2	9.4	7.4	5.1



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.2	7.6	9.5	10.7	11.4	11.7	11.4	10.3	8.7	6.9	4.7
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°	4.9	7.2	9.0	10.2	10.9	11.2	10.9	9.9	8.3	6.6	4.3
114°	4.7	6.9	8.8	10.0	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	7.9	6.3	4.1
115°	4.4	6.5	8.4	9.5	10.2	10.4	10.1	9.1	7.6	6.1	4.0
115.5°	4.3	6.2	8.1	9.3	10.0	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	7.4	8.6	9.3	9.4	9.1	8.1	6.8	5.2	3.7
117.5°	4.0	5.3	7.1	8.4	9.1	9.2	8.9	7.9	6.6	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°	3.7	4.7	6.0	7.3	8.1	8.2	7.9	6.9	5.6	4.5	3.1
120°	3.5	4.6	5.8	7.0	7.8	8.0	7.7	6.7	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	4.9	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	5.8	5.9	5.7	5.1	4.2	3.2	3.0
124.5°	3.4	3.6	4.5	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	4.3	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	4.3	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	3.7	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°	4.3	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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	4.3	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	3.7	3.9	4.1
138°	4.9	4.5	3.9	3.6	3.5	3.4	3.5	3.5	3.7	4.1	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	3.7	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	3.9
141.5°	4.7	4.9	4.6	4.0	3.8	3.8	3.8	4.0	4.4	4.4	3.9
142°	4.7	4.9	4.7	4.1	3.9	3.8	3.9	4.1	4.5	4.4	3.9
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	4.1	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	4.9	4.7	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	4.7	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	4.7	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	3.9
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	4.9	4.9	4.8	4.5	4.3	4.1	3.8
148°	4.7	4.6	4.5	4.5	4.7	4.9	4.8	4.5	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	4.3	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	3.9
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	4.5	4.5	4.5	4.5	4.4	4.1	3.9	3.9
154°	5.0	4.5	4.4	4.4	4.5	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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.0	4.7	4.6	4.5	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	4.5	4.5	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	4.7	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	4.9	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°	4.3	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	5.1	5.0	5.0	5.0	5.1	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	4.7	3.8
165.5°	4.0	4.3	4.3	4.6	5.1	5.2	5.2	5.3	5.1	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	5.3	5.3	5.0	4.7	4.0
167°	3.9	4.5	4.3	4.2	4.8	5.2	5.3	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	4.5
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	4.5	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°	4.1	4.2	4.3	4.4	4.3	3.9	4.5	4.2	4.4	4.3	4.1
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	4.3	4.3	3.7	3.7	4.2	4.2	4.0	3.9
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	3.9	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	3.5	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°	3.7	3.6	3.6	3.6	3.6	1.5	3.7	3.7	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	3.7	3.6



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1923.9	1923.9	1923.9	1923.9
0.5°	1923.5	1923.4	1923.4	1923.4
1°	1923.1	1923.1	1923.1	1923.2
1.5°	1922.7	1922.8	1922.8	1923.2
2°	1921.1	1921.9	1922.6	1922.9
2.5°	1919.4	1919.9	1921.5	1922.2
3°	1918.0	1919.2	1920.7	1920.8
3.5°	1917.2	1918.9	1919.3	1919.5
4°	1915.8	1917.8	1917.9	1918.7
4.5°	1913.1	1915.3	1915.8	1916.6
5°	1911.6	1913.0	1914.6	1915.4
5.5°	1910.2	1910.9	1912.8	1914.2
6°	1907.1	1909.6	1910.6	1912.6
6.5°	1904.2	1905.9	1908.5	1910.6
7°	1902.7	1903.3	1906.9	1908.7
7.5°	1899.2	1901.5	1902.7	1906.0
8°	1895.5	1898.1	1901.2	1904.0
8.5°	1891.6	1894.6	1898.4	1900.4
9°	1888.5	1891.2	1894.9	1898.4
9.5°	1884.8	1887.8	1891.4	1894.9
10°	1880.3	1883.3	1888.1	1891.1
10.5°	1876.5	1880.4	1883.7	1887.6
11°	1872.0	1877.1	1881.0	1883.7
11.5°	1867.5	1872.5	1877.4	1879.6
12°	1863.1	1868.0	1873.5	1875.7
12.5°	1857.7	1863.2	1868.8	1872.0
13°	1852.4	1858.2	1864.2	1867.5
13.5°	1847.3	1853.2	1859.8	1862.6
14°	1841.8	1848.2	1854.4	1857.9
14.5°	1836.0	1843.7	1849.1	1853.3
15°	1830.1	1837.6	1843.8	1847.9
15.5°	1823.7	1831.4	1838.4	1843.0
16°	1817.3	1825.6	1833.4	1837.0
16.5°	1810.8	1819.3	1828.0	1830.4
17°	1804.6	1813.0	1821.4	1824.3
17.5°	1797.8	1806.7	1814.3	1819.2
18°	1791.1	1800.5	1808.1	1813.6
18.5°	1784.2	1794.0	1801.8	1806.6
19°	1776.5	1786.9	1795.2	1799.9
19.5°	1768.1	1779.8	1788.3	1793.1
20°	1760.5	1772.2	1780.9	1786.4
20.5°	1753.2	1764.3	1773.9	1779.5
21°	1745.7	1756.3	1766.0	1772.7



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
22.5°	1719.4	1732.4	1743.4	1749.2
23°	1710.5	1724.1	1734.9	1742.2
23.5°	1701.7	1715.2	1726.3	1733.4
24°	1692.5	1706.7	1718.0	1725.1
24.5°	1683.0	1697.7	1709.6	1717.2
25°	1673.7	1688.3	1701.0	1708.7
25.5°	1663.4	1679.5	1691.5	1699.5
26°	1654.5	1669.9	1682.5	1690.6
26.5°	1644.3	1660.2	1673.2	1681.2
27°	1634.2	1650.6	1663.4	1671.9
27.5°	1623.5	1641.5	1653.8	1662.7
28°	1613.2	1630.6	1644.3	1652.7
28.5°	1602.3	1620.3	1634.3	1642.9
29°	1590.9	1609.8	1624.2	1633.9
29.5°	1580.9	1598.9	1613.7	1623.8
30°	1569.8	1588.8	1603.3	1613.1
30.5°	1558.2	1577.6	1592.9	1603.0
31°	1546.3	1567.0	1582.2	1592.8
31.5°	1535.4	1555.0	1571.2	1582.0
32°	1523.4	1543.8	1559.8	1570.3
32.5°	1511.8	1532.3	1548.7	1559.2
33°	1500.2	1521.3	1537.3	1548.5
33.5°	1488.5	1510.2	1525.7	1537.0
34°	1475.7	1498.0	1514.2	1525.1
34.5°	1463.7	1485.5	1502.0	1513.0
35°	1451.5	1473.9	1490.6	1501.8
35.5°	1438.7	1461.4	1478.5	1490.2
36°	1426.0	1449.3	1466.2	1478.1
36.5°	1413.3	1436.5	1454.9	1465.6
37°	1400.6	1423.8	1442.8	1453.6
37.5°	1387.9	1411.2	1430.6	1441.7
38°	1374.7	1398.5	1417.1	1429.9
38.5°	1360.3	1385.8	1403.7	1416.6
39°	1346.5	1372.5	1390.3	1402.8
39.5°	1333.1	1358.9	1377.1	1389.3
40°	1319.8	1345.7	1364.6	1376.2
40.5°	1306.3	1332.5	1351.8	1363.8
41°	1292.2	1318.6	1338.0	1350.6
41.5°	1278.5	1304.5	1324.8	1336.8
42°	1264.0	1290.9	1311.1	1323.7
42.5°	1250.0	1277.2	1297.1	1310.5
43°	1235.8	1263.0	1283.2	1296.6
43.5°	1221.7	1248.8	1269.6	1282.1



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
45°	1178.3	1206.9	1227.4	1240.0
45.5°	1164.2	1192.3	1212.6	1226.2
46°	1149.4	1177.9	1198.3	1211.4
46.5°	1134.9	1163.4	1183.7	1196.4
47°	1120.8	1148.9	1169.4	1181.8
47.5°	1105.6	1134.4	1154.8	1167.7
48°	1091.2	1119.0	1139.8	1153.5
48.5°	1075.9	1104.7	1125.4	1138.4
49°	1061.2	1090.0	1110.8	1124.2
49.5°	1046.7	1074.8	1095.7	1109.2
50°	1031.3	1059.8	1080.6	1094.2
50.5°	1016.5	1045.1	1065.5	1078.9
51°	1002.2	1029.7	1050.9	1064.1
51.5°	987.2	1015.3	1036.2	1048.9
52°	971.8	1000.0	1020.4	1034.2
52.5°	956.8	984.7	1005.6	1018.6
53°	941.7	969.7	990.1	1003.5
53.5°	927.1	954.5	975.1	988.2
54°	912.1	939.3	959.8	973.0
54.5°	897.3	924.2	944.5	957.5
55°	882.5	909.2	929.3	941.8
55.5°	866.4	894.3	913.7	926.8
56°	851.5	878.1	898.1	911.0
56.5°	836.9	863.5	883.3	895.8
57°	822.1	848.2	867.7	880.9
57.5°	806.6	833.1	852.5	864.8
58°	791.7	817.1	836.6	849.1
58.5°	776.6	802.0	821.2	834.0
59°	762.3	786.6	805.8	818.1
59.5°	746.8	771.4	790.5	802.7
60°	731.9	756.0	775.1	786.7
60.5°	716.6	741.0	759.4	771.3
61°	702.2	725.8	743.7	755.7
61.5°	686.9	710.4	728.1	740.2
62°	672.1	695.2	712.6	724.5
62.5°	657.3	680.3	697.1	708.9
63°	642.8	664.8	681.6	693.2
63.5°	627.8	649.6	666.2	677.8
64°	612.7	634.4	650.5	661.9
64.5°	598.1	619.2	635.5	645.9
65°	583.9	603.8	619.9	630.1
65.5°	568.8	589.0	604.2	614.0
66°	554.8	574.3	588.8	598.1



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
67.5°	511.1	529.1	543.0	551.5
68°	496.6	513.8	527.3	536.3
68.5°	482.1	499.1	511.7	520.6
69°	468.3	483.9	496.8	505.0
69.5°	454.0	469.0	481.3	489.6
70°	439.7	454.5	466.4	474.0
70.5°	425.5	439.8	451.0	458.6
71°	411.6	425.0	436.1	443.4
71.5°	397.7	410.3	420.8	428.1
72°	383.8	395.9	405.7	413.0
72.5°	369.8	381.6	390.5	397.9
73°	356.2	366.9	375.8	382.4
73.5°	343.0	353.0	361.1	366.9
74°	329.5	338.5	346.4	352.3
74.5°	315.8	324.4	331.7	337.4
75°	302.6	310.0	316.9	322.6
75.5°	289.5	296.4	302.3	307.6
76°	276.8	282.4	288.6	293.0
76.5°	263.8	269.1	273.9	278.6
77°	251.2	255.3	260.0	264.3
77.5°	238.4	242.2	245.9	249.7
78°	226.2	228.7	232.3	236.0
78.5°	214.1	216.0	218.2	221.8
79°	202.1	203.2	205.0	207.9
79.5°	190.4	190.8	192.2	194.3
80°	179.4	179.0	179.7	181.5
80.5°	168.5	167.2	167.2	168.2
81°	157.5	155.3	154.7	155.3
81.5°	146.6	143.5	142.3	142.7
82°	135.6	131.7	129.8	130.3
82.5°	125.4	120.9	118.1	117.7
83°	115.2	110.2	107.1	106.6
83.5°	105.6	99.7	95.9	95.4
84°	96.3	89.6	85.4	84.7
84.5°	87.6	80.2	75.2	74.1
85°	79.1	71.2	65.8	64.5
85.5°	71.3	62.6	56.6	56.1
86°	63.8	54.6	48.1	47.7
86.5°	56.7	47.1	40.1	39.3
87°	50.0	40.1	32.8	31.0
87.5°	44.0	33.8	27.7	23.7
88°	38.4	28.3	22.5	17.2
88.5°	33.4	24.6	17.3	11.5



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
90°	21.4	13.3	4.9	3.7
90.5°	19.3	9.8	3.3	2.0
91°	17.2	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	1.4	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°	7.4	3.7	1.2	0.5
96°	7.0	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°	6.3	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	1.6	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	2.6	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	2.0	2.4	2.0
109.5°	3.2	2.0	2.4	2.1
110°	3.1	2.0	2.4	2.1
110.5°	3.0	2.0	2.4	2.1
111°	2.9	2.1	2.4	2.1



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	2.6	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	2.6
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°	3.9	3.4	3.0	2.7
127.5°	4.0	3.4	3.1	2.7
128°	4.1	3.5	3.1	2.8
128.5°	4.1	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°	3.9	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	3.5	3.2	2.9
133.5°	3.5	3.4	3.3	2.9



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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°	3.7	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	3.7	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	2.4	2.2



TEST NUMBER: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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	2.2	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°	3.5	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: P563559

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-4000K

**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°	1765.4	1769.5	1769.1	1765.9	1759.5	1751.8	1743.7	1736.8	1731.0	1728.2	1727.1
22°	1756.9	1761.6	1761.5	1757.7	1751.4	1743.4	1734.4	1727.4	1722.2	1718.3	1717.5



44°	1268.2	1272.8	1266.9	1253.4	1231.7	1205.0	1177.9	1154.5	1137.5	1129.0	1130.1
44.5°	1254.1	1258.1	1253.1	1238.9	1217.2	1190.0	1163.3	1139.6	1122.5	1114.2	1114.2





66.5°	582.4	587.9	586.5	578.3	565.0	546.7	529.8	515.0	504.2	497.9	496.2
67°	566.8	571.9	571.3	563.8	550.6	533.4	517.4	502.6	491.7	485.9	484.7



89°	7.1	14.0	26.7	41.3	55.0	64.5	72.1	76.5	78.2	77.5	74.7
89.5°	5.3	9.8	22.0	36.0	49.5	59.7	67.3	71.1	72.9	72.4	69.6



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	6.7	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	3.7	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°	1728.7	1733.2	1737.3	1742.4	1747.2	1749.4	1749.5	1747.2	1741.9	1733.7	1723.3
22°	1719.1	1723.3	1728.6	1734.2	1739.5	1741.2	1741.5	1739.4	1733.4	1725.1	1714.4





44°	1138.4	1155.3	1177.2	1197.8	1216.1	1229.3	1234.5	1232.3	1223.4	1206.9	1182.8
44.5°	1123.8	1141.0	1162.4	1182.6	1201.5	1214.8	1219.3	1218.3	1209.4	1192.3	1167.9



66.5°	499.8	507.4	517.8	528.4	537.7	543.9	542.5	541.4	534.8	525.3	511.4
67°	487.9	494.8	504.7	514.4	522.7	527.7	527.4	526.0	519.6	510.3	497.1



89°	69.7	62.6	53.8	41.0	27.5	14.7	5.9	0.9	4.9	13.6	22.4
89.5°	65.1	58.2	48.7	36.5	23.6	11.8	4.6	0.8	3.6	10.2	20.3



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	3.7	4.2	3.2	3.5



134°	3.9	4.4	5.0	6.2	6.3	5.0	4.4	4.1	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	4.1	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°	1712.1	1700.0	1690.2	1681.9	1677.8	1676.9	1679.3	1686.6	1697.1	1710.5	1724.0
22°	1703.1	1690.0	1679.4	1672.2	1667.8	1665.8	1669.2	1675.7	1686.9	1700.4	1714.7



44°	1155.8	1126.1	1099.7	1078.7	1065.8	1062.5	1069.1	1085.8	1111.3	1142.0	1176.3
44.5°	1141.5	1110.7	1084.7	1063.8	1050.4	1047.0	1054.0	1071.1	1096.4	1127.5	1160.9



66.5°	496.1	480.3	466.7	456.4	450.5	450.0	454.5	464.4	479.0	497.9	518.7
67°	482.1	467.1	454.3	444.7	439.1	438.6	442.5	452.6	466.6	484.5	504.9



89°	32.6	41.9	49.2	54.5	57.9	59.4	59.1	57.0	53.0	46.8	38.6
89.5°	29.1	38.1	45.3	50.6	54.0	55.4	55.0	52.9	48.7	42.5	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	11.7	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	4.3	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	3.7
179.5°	3.1	3.1	3.2	3.2	3.3	3.3	3.4	3.5	3.5	3.5	3.5







21.5°	1737.0	1749.0	1758.3	1765.4
22°	1727.9	1741.5	1751.4	1756.9



44°	1207.5	1235.2	1255.0	1268.2
44.5°	1193.9	1220.6	1241.3	1254.1



66.5°	539.9	559.1	573.5	582.4
67°	525.3	544.1	558.5	566.8



89°	28.9	20.8	12.2	7.1
89.5°	24.9	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°	4.1	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)