

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: P563560

Luminaire Tested: **4NWS3C3MS-UNV-HI-5000K**

Issue Date: 7/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563560  
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-5000K  
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND HI LUMEN SETTING  
Light Source: -  
Ballast/Driver:

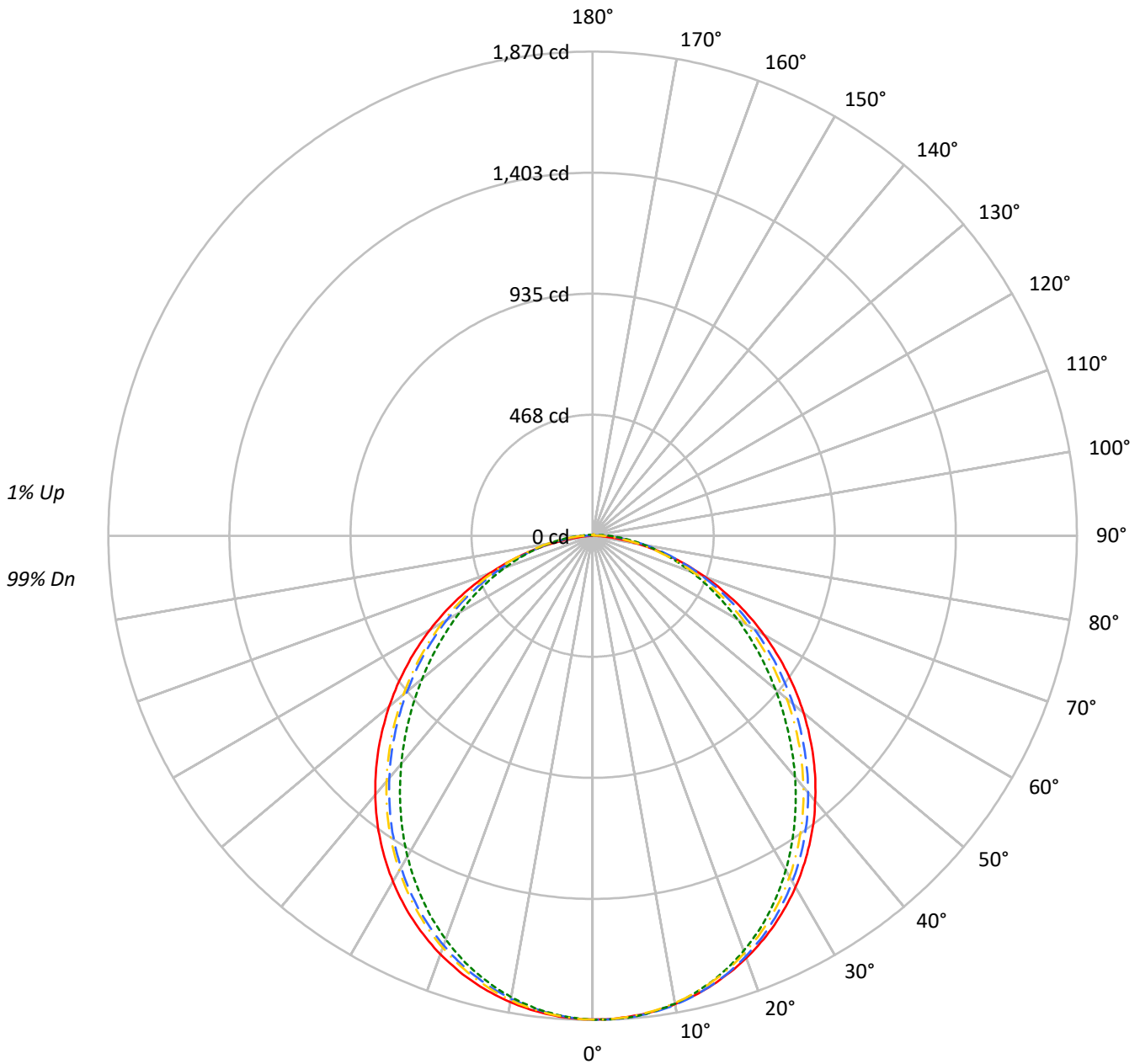
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4872.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 38.8  
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°	11358	11358	11358	11358
5°	11331	11188	11311	11105
10°	11296	10963	11247	10813
15°	11232	10676	11156	10456
20°	11139	10325	11041	10046
25°	11024	9919	10886	9572
30°	10867	9444	10695	9053
35°	10669	8912	10464	8482
40°	10425	8335	10182	7880
45°	10143	7728	9851	7258
50°	9808	7111	9463	6641
55°	9414	6520	9015	6036
60°	8968	5931	8496	5443
65°	8427	5331	7872	4841
70°	7741	4732	7075	4219
75°	6831	4107	5999	3552
80°	5522	3434	4491	2850
85°	3529	2743	2266	2179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.4	3.6
10°-20°	500.6	10.3
20°-30°	743.4	15.3
30°-40°	866.6	17.8
40°-50°	857.9	17.6
50°-60°	736.7	15.1
60°-70°	539.2	11.1
70°-80°	306.1	6.3
80°-90°	102.0	2.1
90°-100°	18.5	0.4
100°-110°	7.8	0.2
110°-120°	4.6	0.1
120°-130°	3.3	0.1
130°-140°	3.0	0.1
140°-150°	2.7	0.1
150°-160°	1.9	0.0
160°-170°	1.1	0.0
170°-180°	0.3	0.0
0°-30°	1420.4	29.2
0°-40°	2286.9	46.9
0°-60°	3881.5	79.7
0°-90°	4828.8	99.1
90°-120°	30.9	0.6
90°-150°	39.9	0.8
90°-180°	43.0	0.9
0°-180°	4872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1869	1869	1869	1869	1869	
5°	1860	1864	1857	1850	1860	177
15°	1795	1782	1783	1745	1795	506
25°	1660	1608	1639	1552	1660	764
35°	1459	1359	1431	1293	1459	912
45°	1204	1068	1170	1003	1204	929
55°	915	780	876	722	915	818
65°	612	520	572	472	612	606
75°	313	297	275	257	313	332
85°	63	124	40	98	63	75
90°	4	65	1	50	4	3
95°	0	32	1	26	0	0
105°	2	12	3	15	2	2
115°	2	5	4	10	2	2
125°	2	3	4	5	2	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°	3	4	4	3	3	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°	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6
0.5°	1868.2	1868.2	1868.4	1868.6	1868.7	1868.9	1869.0	1869.1	1869.1	1869.1	1869.1
1°	1868.0	1868.2	1868.5	1868.9	1869.1	1869.2	1869.3	1869.3	1868.6	1868.0	1868.5
1.5°	1868.0	1868.7	1868.8	1868.2	1867.9	1868.1	1868.8	1869.3	1868.7	1869.5	1869.7
2°	1867.7	1868.2	1868.2	1868.2	1868.6	1869.2	1869.6	1869.6	1868.6	1868.7	1869.0
2.5°	1867.0	1867.5	1867.5	1867.7	1867.7	1867.2	1867.4	1867.2	1869.1	1868.0	1867.2
3°	1865.7	1866.1	1866.9	1867.3	1867.7	1867.8	1868.2	1868.5	1867.9	1867.7	1867.8
3.5°	1864.4	1865.4	1866.1	1867.6	1866.9	1867.4	1867.4	1866.9	1867.5	1866.2	1865.7
4°	1863.6	1865.3	1864.8	1866.5	1866.1	1866.4	1866.3	1865.9	1865.0	1867.0	1865.3
4.5°	1861.6	1863.1	1863.7	1864.8	1865.7	1865.6	1864.8	1865.7	1864.9	1865.1	1863.3
5°	1860.4	1861.9	1862.5	1863.1	1864.2	1864.2	1862.5	1863.2	1863.7	1863.6	1862.0
5.5°	1859.2	1860.6	1861.3	1861.6	1862.3	1861.7	1861.1	1861.1	1861.9	1861.5	1859.7
6°	1857.7	1859.0	1859.3	1860.2	1861.2	1860.3	1859.9	1859.3	1859.5	1859.0	1857.1
6.5°	1855.7	1857.3	1857.6	1858.2	1859.2	1858.4	1858.6	1857.3	1857.3	1857.2	1855.2
7°	1853.9	1854.7	1856.3	1855.9	1856.0	1854.9	1856.5	1854.8	1854.5	1854.4	1852.9
7.5°	1851.3	1852.3	1853.6	1854.6	1854.4	1853.5	1853.0	1852.3	1851.6	1850.2	1850.3
8°	1849.4	1849.4	1851.5	1851.8	1851.7	1851.0	1850.3	1849.8	1849.1	1848.1	1847.5
8.5°	1845.9	1846.3	1849.1	1848.6	1849.0	1848.5	1847.4	1846.7	1845.5	1844.8	1843.4
9°	1843.9	1845.5	1845.8	1846.4	1846.5	1845.8	1843.8	1843.5	1842.1	1842.6	1839.9
9.5°	1840.5	1842.1	1843.5	1843.1	1843.4	1841.8	1839.7	1839.7	1838.8	1836.9	1836.3
10°	1836.8	1838.9	1840.0	1840.1	1839.8	1838.6	1836.4	1835.2	1834.6	1834.9	1833.1
10.5°	1833.4	1835.2	1836.9	1837.0	1836.2	1834.8	1832.4	1831.1	1830.4	1830.1	1828.6
11°	1829.6	1830.8	1833.0	1833.1	1832.4	1831.5	1827.8	1827.3	1827.0	1825.7	1824.3
11.5°	1825.6	1828.1	1829.0	1829.5	1827.9	1827.3	1823.8	1823.3	1822.1	1821.2	1819.6
12°	1821.8	1824.1	1825.7	1825.9	1824.1	1822.7	1820.0	1818.6	1816.0	1816.4	1813.9
12.5°	1818.2	1820.0	1821.6	1821.7	1819.3	1818.3	1815.5	1813.6	1811.5	1810.9	1809.5
13°	1813.9	1816.3	1817.6	1816.9	1814.2	1813.8	1810.3	1808.7	1806.7	1804.8	1804.1
13.5°	1809.1	1812.0	1813.2	1812.7	1809.9	1808.9	1804.2	1802.9	1801.1	1799.0	1797.4
14°	1804.6	1807.3	1808.4	1808.6	1805.0	1802.9	1799.6	1797.3	1795.3	1792.9	1792.1
14.5°	1800.0	1802.6	1803.7	1803.6	1799.4	1798.0	1794.7	1791.4	1788.4	1787.7	1785.3
15°	1794.8	1797.8	1798.6	1798.1	1794.9	1792.7	1788.5	1785.4	1782.7	1781.7	1780.2
15.5°	1790.1	1792.9	1793.0	1792.2	1789.9	1787.2	1781.8	1779.8	1776.2	1775.3	1773.1
16°	1784.3	1787.8	1788.3	1787.0	1783.7	1780.7	1775.9	1773.0	1770.2	1768.0	1765.9
16.5°	1777.9	1782.3	1783.2	1781.8	1777.8	1774.5	1769.3	1765.9	1763.1	1760.3	1759.6
17°	1772.0	1776.8	1776.9	1776.1	1772.4	1768.3	1763.0	1758.8	1755.5	1754.1	1753.1
17.5°	1767.0	1770.6	1771.1	1769.8	1766.1	1761.4	1755.1	1751.8	1747.7	1746.9	1744.9
18°	1761.6	1764.4	1765.3	1763.5	1759.2	1754.8	1748.7	1744.5	1740.5	1738.4	1737.5
18.5°	1754.7	1759.1	1759.6	1757.6	1752.9	1748.1	1741.3	1736.6	1733.4	1730.6	1729.5
19°	1748.2	1753.1	1753.5	1750.7	1746.3	1740.7	1734.4	1728.9	1724.9	1722.4	1722.0
19.5°	1741.6	1746.0	1746.2	1743.9	1738.9	1732.9	1726.2	1721.2	1716.3	1715.1	1712.2
20°	1735.1	1739.1	1739.1	1736.9	1731.8	1725.3	1717.8	1712.6	1708.3	1705.1	1704.3
20.5°	1728.5	1732.6	1732.5	1729.9	1724.6	1718.0	1709.7	1703.9	1699.9	1696.7	1695.3
21°	1721.8	1725.9	1725.5	1722.5	1716.4	1709.8	1702.0	1695.3	1691.3	1687.3	1686.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1698.9	1703.2	1703.6	1699.4	1693.1	1685.0	1675.8	1668.5	1663.1	1660.0	1658.0
23°	1692.1	1695.8	1695.4	1691.5	1684.9	1676.6	1667.0	1659.1	1653.2	1651.1	1648.8
23.5°	1683.6	1688.1	1687.6	1683.4	1676.6	1667.4	1658.0	1649.2	1643.2	1640.2	1638.6
24°	1675.5	1680.2	1679.9	1674.8	1667.6	1658.5	1647.7	1639.3	1633.1	1630.0	1628.7
24.5°	1667.9	1671.9	1671.3	1666.6	1658.4	1649.1	1639.3	1629.9	1622.9	1619.5	1617.7
25°	1659.6	1664.0	1662.7	1658.0	1649.8	1639.5	1629.3	1619.7	1612.3	1608.2	1607.4
25.5°	1650.7	1655.1	1654.2	1649.0	1641.4	1630.0	1618.9	1609.1	1602.0	1598.0	1596.3
26°	1642.1	1645.7	1645.4	1639.3	1632.0	1619.9	1608.4	1598.0	1590.4	1585.9	1585.7
26.5°	1633.0	1637.3	1635.4	1630.9	1621.5	1609.9	1597.7	1587.5	1579.6	1575.5	1573.9
27°	1623.9	1629.0	1626.5	1620.9	1611.6	1600.0	1587.3	1576.5	1568.5	1563.3	1563.3
27.5°	1615.0	1619.7	1617.9	1611.0	1601.8	1589.2	1577.6	1565.2	1556.1	1552.7	1551.5
28°	1605.2	1610.3	1608.7	1601.7	1591.8	1578.8	1565.2	1554.3	1545.0	1540.6	1539.1
28.5°	1595.8	1600.7	1599.1	1592.2	1582.1	1568.5	1554.4	1542.9	1532.6	1527.4	1526.9
29°	1587.0	1591.3	1589.4	1582.0	1571.1	1557.4	1543.5	1530.9	1521.9	1516.6	1515.2
29.5°	1577.2	1581.8	1579.2	1572.3	1560.6	1546.5	1532.6	1519.1	1508.4	1504.0	1504.0
30°	1566.8	1570.9	1569.2	1561.2	1549.9	1535.1	1520.2	1507.1	1496.6	1491.2	1491.6
30.5°	1557.0	1561.0	1558.9	1551.5	1539.1	1523.4	1508.5	1494.9	1483.0	1478.9	1478.1
31°	1547.0	1551.4	1548.3	1541.0	1528.6	1512.5	1496.1	1482.4	1471.7	1466.4	1465.0
31.5°	1536.5	1541.2	1538.1	1529.6	1517.5	1501.2	1484.1	1469.5	1458.8	1453.1	1451.8
32°	1525.2	1529.7	1527.0	1518.2	1505.6	1488.8	1472.1	1457.3	1445.8	1439.6	1439.2
32.5°	1514.4	1518.8	1516.2	1506.8	1493.9	1476.8	1459.9	1444.8	1433.8	1426.4	1426.3
33°	1504.1	1508.4	1505.1	1496.5	1482.4	1465.2	1447.7	1431.6	1420.2	1413.6	1413.3
33.5°	1492.9	1497.2	1494.1	1485.3	1471.1	1453.1	1435.1	1419.0	1406.4	1399.8	1399.4
34°	1481.3	1486.4	1482.8	1473.3	1459.3	1440.2	1421.6	1405.5	1393.0	1386.0	1385.9
34.5°	1469.6	1474.9	1471.4	1461.7	1447.4	1427.8	1408.6	1391.3	1379.1	1372.7	1371.9
35°	1458.7	1463.5	1460.3	1450.2	1434.8	1415.3	1396.0	1378.1	1364.9	1358.7	1358.6
35.5°	1447.4	1451.8	1449.0	1438.4	1422.3	1402.3	1382.6	1364.7	1351.1	1345.0	1344.6
36°	1435.7	1440.8	1436.3	1426.5	1410.2	1389.5	1369.4	1351.2	1337.1	1331.1	1330.5
36.5°	1423.6	1428.2	1424.6	1413.6	1398.1	1376.9	1356.1	1337.1	1323.3	1316.2	1316.9
37°	1411.8	1416.0	1412.5	1401.7	1385.2	1364.1	1342.9	1323.8	1308.5	1302.2	1302.6
37.5°	1400.3	1403.8	1400.2	1389.5	1372.3	1350.8	1329.0	1309.6	1294.8	1287.9	1288.1
38°	1388.9	1391.6	1388.4	1376.4	1359.5	1337.3	1315.1	1295.5	1281.0	1273.3	1273.1
38.5°	1375.9	1379.4	1374.9	1363.9	1346.2	1323.9	1301.3	1281.2	1266.7	1259.8	1259.2
39°	1362.6	1367.0	1362.7	1351.0	1333.1	1310.6	1287.7	1267.0	1252.6	1244.7	1244.1
39.5°	1349.5	1354.9	1350.1	1338.3	1319.6	1296.5	1273.9	1252.8	1237.4	1230.6	1230.5
40°	1336.7	1341.8	1337.6	1324.6	1306.4	1282.5	1259.2	1238.7	1222.9	1215.7	1215.8
40.5°	1324.7	1328.7	1324.8	1312.0	1292.9	1269.0	1245.1	1224.0	1208.0	1200.9	1200.4
41°	1311.9	1315.7	1311.6	1298.6	1279.4	1254.9	1231.0	1209.8	1193.5	1186.4	1185.6
41.5°	1298.4	1302.4	1298.0	1285.6	1265.8	1241.1	1216.3	1194.8	1178.0	1171.2	1171.1
42°	1285.7	1290.0	1285.1	1271.5	1252.5	1227.5	1202.9	1180.5	1164.2	1157.2	1156.1
42.5°	1272.8	1276.7	1271.7	1258.8	1237.8	1213.1	1188.4	1166.1	1149.5	1141.9	1141.3
43°	1259.3	1263.2	1258.3	1244.2	1224.0	1198.7	1173.8	1151.2	1134.6	1127.5	1126.8
43.5°	1245.3	1249.9	1244.6	1231.3	1210.8	1184.7	1159.1	1136.5	1119.7	1112.2	1112.2



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CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	1204.4	1208.6	1203.2	1189.1	1168.6	1141.6	1115.6	1092.3	1075.2	1067.6	1067.3
45.5°	1191.0	1194.9	1189.3	1174.9	1153.7	1127.1	1101.0	1077.6	1060.9	1052.4	1052.5
46°	1176.7	1181.0	1175.6	1160.9	1139.4	1112.5	1086.0	1062.9	1046.6	1037.1	1038.0
46.5°	1162.0	1166.5	1161.2	1146.7	1125.0	1097.9	1071.0	1048.2	1030.9	1023.2	1023.5
47°	1147.8	1152.8	1147.9	1132.5	1110.9	1083.4	1056.5	1033.2	1015.9	1008.5	1008.1
47.5°	1134.2	1138.3	1133.4	1118.9	1096.9	1068.9	1042.3	1018.0	1001.3	993.7	993.3
48°	1120.4	1124.4	1118.9	1104.8	1082.7	1054.2	1027.6	1003.6	987.1	978.5	979.2
48.5°	1105.7	1109.4	1104.2	1090.0	1067.9	1039.8	1013.3	989.1	971.8	964.3	964.5
49°	1091.9	1096.3	1089.7	1074.8	1053.3	1025.3	998.3	974.6	957.6	949.4	949.3
49.5°	1077.4	1081.3	1076.4	1061.0	1038.5	1010.6	984.0	959.9	942.7	934.8	935.2
50°	1062.8	1067.3	1061.4	1046.8	1023.7	995.8	969.6	945.3	928.9	920.0	920.4
50.5°	1047.9	1052.5	1046.9	1032.5	1009.6	981.4	954.8	930.6	913.6	905.8	905.6
51°	1033.6	1038.0	1032.0	1017.0	995.1	966.8	940.3	916.6	900.1	891.2	890.8
51.5°	1018.8	1023.3	1017.4	1002.9	980.5	952.3	925.3	902.0	885.0	878.0	877.2
52°	1004.5	1009.0	1003.3	988.1	965.7	938.1	911.3	888.0	871.2	862.7	863.0
52.5°	989.4	993.7	987.7	973.4	950.9	923.0	896.7	873.6	857.3	849.1	848.9
53°	974.7	979.2	973.5	958.5	936.2	908.4	882.2	859.4	843.3	834.5	834.2
53.5°	959.9	964.0	958.4	943.9	921.4	894.1	868.0	845.3	828.1	821.2	820.2
54°	945.1	949.0	943.8	929.5	907.0	879.4	853.8	831.0	814.7	806.5	806.8
54.5°	930.0	934.5	928.7	914.6	892.8	864.8	838.9	816.7	800.4	792.7	792.7
55°	914.7	919.7	914.3	899.8	877.6	850.1	824.7	802.6	786.9	780.0	778.4
55.5°	900.2	904.6	899.0	885.3	863.5	836.2	810.6	788.3	772.7	765.6	764.4
56°	884.9	889.4	884.5	870.3	848.9	822.3	797.0	774.4	759.2	751.7	751.2
56.5°	870.1	874.7	869.5	855.7	834.5	807.7	782.5	760.9	745.8	738.2	737.7
57°	855.6	859.4	854.4	840.7	819.4	793.3	768.4	747.1	731.7	724.9	724.1
57.5°	840.0	845.0	838.9	826.2	805.4	779.4	754.6	733.2	718.6	711.3	710.5
58°	824.7	829.3	824.9	810.8	789.9	765.2	740.9	720.0	705.2	697.5	697.7
58.5°	810.0	814.4	809.4	796.6	775.9	750.6	726.7	706.1	691.9	684.6	684.1
59°	794.6	799.8	794.5	781.8	761.5	736.6	712.9	692.4	679.0	672.1	670.9
59.5°	779.6	784.1	779.5	767.1	747.1	722.5	699.4	679.7	665.9	659.5	657.2
60°	764.2	769.1	764.9	752.2	732.4	708.5	685.5	666.6	653.0	646.3	644.2
60.5°	749.2	753.5	749.7	737.6	718.9	694.7	672.7	653.8	639.8	633.1	631.3
61°	734.0	738.2	734.6	723.1	704.6	681.1	655.7	640.4	626.6	619.8	618.4
61.5°	719.0	723.9	719.3	707.5	689.7	666.9	641.9	626.9	613.5	606.6	605.4
62°	703.7	708.7	705.1	693.4	674.9	652.7	629.4	613.7	600.3	593.4	592.5
62.5°	688.5	693.1	690.1	679.2	661.2	639.0	616.9	600.4	587.2	580.5	579.5
63°	673.3	678.2	674.9	664.5	646.9	625.3	604.3	587.2	574.8	568.3	567.2
63.5°	658.4	662.7	659.9	649.2	632.6	611.6	591.9	574.5	562.4	556.1	555.1
64°	642.9	647.4	644.4	636.2	618.2	597.9	578.4	562.2	550.1	543.9	542.7
64.5°	627.4	632.1	629.4	631.4	604.3	584.3	565.7	549.5	537.8	531.5	530.1
65°	612.0	616.7	614.5	613.8	591.2	570.6	552.9	537.0	525.5	519.7	518.2
65.5°	596.4	601.4	599.5	596.4	577.0	557.1	539.8	524.6	513.5	507.4	506.0
66°	580.9	586.0	584.6	578.9	562.7	544.0	527.1	512.2	501.7	495.5	494.4





TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	535.7	540.5	540.0	533.2	521.1	504.9	489.5	476.4	466.2	460.3	458.8
68°	520.9	525.7	525.0	519.0	507.4	491.9	477.0	464.3	454.8	449.0	447.4
68.5°	505.6	510.6	510.8	504.3	493.6	478.9	464.9	452.4	443.3	437.9	435.3
69°	490.5	495.7	496.0	491.0	480.2	465.9	452.7	440.7	431.2	426.3	424.4
69.5°	475.5	481.2	481.4	476.9	467.2	453.2	440.6	428.9	419.9	414.7	413.0
70°	460.4	466.1	466.9	462.9	453.7	440.7	428.5	417.1	408.7	403.4	401.6
70.5°	445.4	451.1	452.4	448.7	440.8	428.4	416.7	405.9	397.8	392.6	390.4
71°	430.7	436.0	438.0	435.1	427.3	415.8	404.7	394.5	386.8	381.7	379.6
71.5°	415.8	421.6	423.3	421.0	414.3	403.4	393.1	383.4	375.4	370.7	368.8
72°	401.2	406.8	409.3	407.1	401.2	391.1	381.2	372.1	364.5	359.6	357.7
72.5°	386.5	392.0	395.1	393.6	387.9	378.6	369.8	360.7	353.7	349.4	346.9
73°	371.4	377.5	381.2	380.4	375.4	366.4	358.0	349.7	343.0	338.5	336.1
73.5°	356.4	363.1	366.8	366.8	362.5	355.1	346.6	338.8	332.3	328.0	325.6
74°	342.2	348.2	352.8	353.6	349.9	343.0	335.5	327.9	322.0	317.5	315.1
74.5°	327.8	334.3	338.9	340.0	337.4	330.8	324.4	317.3	311.6	307.4	305.3
75°	313.4	319.9	325.1	326.7	324.9	319.2	313.2	306.9	301.3	297.2	294.7
75.5°	298.7	306.0	311.1	313.6	312.6	307.6	302.2	296.2	290.9	287.2	284.7
76°	284.6	291.5	297.6	300.9	300.0	295.9	291.4	285.9	281.0	277.3	274.5
76.5°	270.6	277.9	284.1	287.8	288.1	284.7	280.4	275.5	271.0	267.5	264.7
77°	256.7	263.7	270.7	275.0	276.2	273.6	270.0	265.2	261.1	257.5	254.7
77.5°	242.6	250.2	257.5	262.4	264.3	262.5	259.4	255.3	251.2	248.0	245.1
78°	229.2	236.6	244.2	250.2	252.5	251.6	249.1	245.4	241.9	238.7	235.8
78.5°	215.4	223.4	231.2	237.8	241.0	240.7	238.7	235.7	232.6	229.3	226.5
79°	201.9	210.1	218.6	225.7	229.5	229.9	228.8	226.0	223.1	220.0	217.2
79.5°	188.7	196.7	206.0	213.6	218.3	219.4	219.0	216.6	214.0	211.2	208.2
80°	176.3	183.9	193.3	201.9	207.2	209.0	209.0	207.3	205.0	202.4	199.4
80.5°	163.3	171.5	181.3	190.3	196.3	198.9	199.4	198.2	196.3	193.5	190.6
81°	150.8	159.1	169.4	178.9	185.6	188.9	190.2	189.2	187.6	185.0	182.1
81.5°	138.6	146.9	157.7	167.6	175.2	179.0	181.0	180.7	179.3	176.9	173.8
82°	126.6	134.9	146.0	156.8	164.8	169.5	171.9	172.1	171.0	168.6	165.6
82.5°	114.3	123.4	135.1	146.1	154.7	160.3	163.0	163.7	162.7	160.5	157.4
83°	103.5	112.2	123.9	135.7	144.9	151.1	154.5	155.4	154.7	152.9	149.8
83.5°	92.6	101.4	113.3	125.7	135.6	142.1	146.2	147.5	147.3	145.2	142.2
84°	82.3	91.0	103.0	115.8	126.3	133.5	138.0	139.8	139.5	137.8	134.9
84.5°	72.0	80.7	93.4	106.3	117.3	125.1	129.8	132.2	132.2	130.6	127.7
85°	62.6	71.1	83.8	97.2	108.8	117.0	122.2	124.8	125.2	123.6	120.6
85.5°	54.4	62.3	74.9	88.6	100.5	109.2	114.8	117.6	118.1	116.7	113.9
86°	46.3	54.4	66.1	80.3	92.7	101.8	107.7	110.7	111.4	110.1	107.2
86.5°	38.2	46.5	59.1	72.4	85.0	94.5	100.6	104.1	105.0	103.8	101.0
87°	30.1	38.6	52.2	64.3	77.8	87.4	94.0	97.8	98.7	97.9	94.8
87.5°	23.0	30.7	45.2	58.3	70.8	80.8	87.6	91.5	92.7	91.8	89.0
88°	16.7	24.2	38.3	52.2	64.0	74.5	81.5	85.5	87.0	86.0	83.2
88.5°	11.2	18.5	31.3	46.2	58.7	68.3	75.5	79.8	81.3	80.5	77.9



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	3.6	6.6	17.3	30.3	42.8	53.3	60.9	64.5	66.2	65.4	63.5
90.5°	2.0	5.3	13.9	26.2	38.2	48.5	56.3	60.4	62.2	61.5	59.5
91°	0.4	4.1	11.3	22.4	34.1	44.0	51.8	56.3	58.2	57.6	55.4
91.5°	0.3	3.0	9.1	19.4	30.3	39.8	47.3	52.2	54.1	53.7	51.4
92°	0.3	1.8	7.4	16.6	26.9	36.1	43.2	48.0	50.1	49.9	47.4
92.5°	0.2	1.4	6.6	14.4	23.9	32.8	39.6	44.1	46.2	46.0	43.9
93°	0.2	1.1	5.8	12.4	21.3	29.7	36.3	40.7	42.8	42.7	40.6
93.5°	0.2	0.9	5.0	10.9	19.0	26.9	33.3	37.6	39.6	39.5	37.7
94°	0.3	0.8	4.2	9.6	16.9	24.4	30.6	34.7	36.7	36.7	34.9
94.5°	0.3	0.7	3.8	8.6	15.2	22.1	28.0	32.0	34.0	34.0	32.3
95°	0.4	0.6	3.5	7.9	13.8	20.1	25.6	29.6	31.5	31.6	29.9
95.5°	0.5	0.6	3.1	7.3	12.6	18.4	23.6	27.3	29.2	29.3	27.8
96°	0.6	0.6	2.8	6.9	11.6	16.9	21.8	25.2	27.1	27.2	25.8
96.5°	0.6	0.7	2.5	6.4	10.8	15.6	20.1	23.4	25.2	25.4	24.1
97°	0.7	0.8	2.3	6.0	10.2	14.5	18.7	21.8	23.5	23.7	22.5
97.5°	0.8	0.8	2.1	5.5	9.6	13.6	17.4	20.4	22.0	22.2	21.1
98°	0.8	0.8	1.9	5.1	9.1	12.9	16.4	19.1	20.7	20.9	19.9
98.5°	0.9	0.9	1.7	4.8	8.6	12.3	15.5	18.0	19.5	19.7	18.8
99°	1.0	0.9	1.6	4.5	8.1	11.7	14.7	17.1	18.4	18.7	17.9
99.5°	1.1	1.0	1.5	4.2	7.7	11.2	14.1	16.3	17.6	17.8	17.1
100°	1.2	1.1	1.4	3.9	7.3	10.7	13.5	15.6	16.8	17.1	16.4
100.5°	1.3	1.2	1.4	3.6	6.9	10.1	13.0	15.0	16.2	16.5	15.8
101°	1.4	1.2	1.4	3.4	6.5	9.7	12.4	14.5	15.6	15.8	15.2
101.5°	1.5	1.3	1.4	3.1	6.2	9.2	11.9	13.9	15.1	15.3	14.7
102°	1.6	1.4	1.4	2.9	5.8	8.8	11.4	13.4	14.5	14.8	14.2
102.5°	1.7	1.5	1.4	2.7	5.5	8.4	10.9	12.8	14.0	14.2	13.7
103°	1.8	1.5	1.4	2.5	5.1	7.9	10.4	12.3	13.4	13.7	13.2
103.5°	1.9	1.6	1.3	2.3	4.8	7.5	9.9	11.8	12.9	13.2	12.7
104°	1.9	1.6	1.3	2.2	4.5	7.2	9.5	11.3	12.4	12.7	12.2
104.5°	2.0	1.7	1.2	2.0	4.2	6.8	9.1	10.9	11.9	12.2	11.7
105°	2.0	1.9	1.2	1.9	3.9	6.5	8.7	10.4	11.5	11.8	11.3
105.5°	2.0	2.1	1.3	1.8	3.7	6.1	8.3	10.0	11.1	11.3	10.9
106°	1.9	2.1	1.3	1.8	3.4	5.8	7.9	9.6	10.7	10.9	10.5
106.5°	1.9	2.0	1.3	1.7	3.2	5.4	7.5	9.2	10.2	10.5	10.1
107°	1.9	1.9	1.3	1.7	3.1	5.1	7.2	8.8	9.9	10.1	9.7
107.5°	1.9	1.9	1.4	1.6	2.9	4.9	6.9	8.4	9.5	9.8	9.3
108°	2.0	1.9	1.4	1.6	2.7	4.6	6.5	8.0	9.1	9.4	9.0
108.5°	2.0	2.0	1.5	1.6	2.6	4.3	6.2	7.7	8.7	9.0	8.6
109°	2.0	2.0	1.5	1.5	2.4	4.1	5.9	7.3	8.4	8.6	8.3
109.5°	2.0	2.1	1.5	1.5	2.3	3.9	5.5	7.0	8.0	8.3	8.0
110°	2.0	2.1	1.5	1.4	2.2	3.7	5.2	6.7	7.7	8.0	7.7
110.5°	2.0	2.0	1.6	1.5	2.1	3.5	5.0	6.4	7.4	7.7	7.4
111°	2.0	2.0	1.6	1.5	2.1	3.3	4.7	6.1	7.1	7.3	7.1



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	2.1	2.0	1.8	1.6	1.9	2.8	4.0	5.3	6.2	6.4	6.2
113°	2.1	2.0	1.8	1.6	1.9	2.7	3.8	5.0	5.9	6.1	5.9
113.5°	2.1	2.0	1.9	1.6	1.9	2.6	3.6	4.8	5.6	5.8	5.6
114°	2.1	2.0	1.9	1.7	1.8	2.5	3.4	4.5	5.3	5.6	5.4
114.5°	2.2	2.1	2.0	1.7	1.7	2.4	3.3	4.3	5.1	5.3	5.2
115°	2.2	2.1	2.0	1.7	1.7	2.4	3.1	4.1	4.9	5.1	5.0
115.5°	2.2	2.1	2.1	1.8	1.7	2.3	3.0	3.9	4.6	4.9	4.8
116°	2.2	2.2	2.2	1.8	1.7	2.3	2.9	3.7	4.4	4.7	4.6
116.5°	2.2	2.2	2.3	1.8	1.7	2.2	2.8	3.6	4.2	4.5	4.4
117°	2.2	2.3	2.4	1.9	1.8	2.2	2.7	3.4	4.0	4.3	4.2
117.5°	2.2	2.3	2.5	1.9	1.8	2.1	2.7	3.3	3.9	4.1	4.1
118°	2.2	2.4	2.6	1.9	1.8	2.0	2.6	3.2	3.7	4.0	3.9
118.5°	2.2	2.4	2.7	2.0	1.8	2.0	2.5	3.1	3.6	3.8	3.8
119°	2.3	2.4	2.7	2.0	1.9	1.9	2.5	3.0	3.5	3.7	3.7
119.5°	2.3	2.4	2.6	2.1	1.9	1.9	2.4	2.9	3.4	3.6	3.6
120°	2.3	2.5	2.5	2.1	1.9	1.9	2.4	2.8	3.3	3.5	3.5
120.5°	2.3	2.5	2.5	2.1	2.0	2.0	2.3	2.7	3.2	3.4	3.4
121°	2.4	2.5	2.5	2.2	2.0	2.0	2.2	2.7	3.1	3.3	3.4
121.5°	2.4	2.5	2.6	2.2	2.0	2.0	2.1	2.6	3.0	3.3	3.3
122°	2.4	2.6	2.6	2.3	2.1	2.0	2.1	2.6	2.9	3.2	3.2
122.5°	2.4	2.6	2.7	2.3	2.1	2.1	2.1	2.5	2.9	3.1	3.2
123°	2.4	2.6	2.7	2.4	2.2	2.1	2.1	2.4	2.8	3.1	3.1
123.5°	2.5	2.6	2.7	2.4	2.2	2.2	2.1	2.3	2.8	3.0	3.0
124°	2.5	2.7	2.8	2.5	2.3	2.2	2.1	2.2	2.7	3.0	3.0
124.5°	2.5	2.7	2.8	2.5	2.3	2.2	2.1	2.2	2.6	2.9	2.9
125°	2.5	2.7	2.8	2.6	2.3	2.3	2.2	2.2	2.6	2.8	2.8
125.5°	2.6	2.7	2.8	2.7	2.4	2.3	2.2	2.2	2.5	2.8	2.8
126°	2.6	2.7	2.8	2.8	2.4	2.3	2.2	2.3	2.5	2.7	2.8
126.5°	2.6	2.7	2.8	2.9	2.5	2.4	2.3	2.3	2.5	2.7	2.8
127°	2.6	2.7	2.8	3.0	2.5	2.4	2.3	2.4	2.6	2.8	2.9
127.5°	2.7	2.7	2.8	3.1	2.6	2.4	2.4	2.4	2.6	2.8	2.9
128°	2.7	2.7	2.8	3.2	2.6	2.5	2.4	2.5	2.6	2.8	2.9
128.5°	2.7	2.7	2.8	3.2	2.6	2.5	2.5	2.5	2.7	2.9	3.0
129°	2.7	2.7	2.8	3.2	2.7	2.5	2.5	2.6	2.7	2.9	3.0
129.5°	2.7	2.7	2.7	3.3	2.8	2.6	2.6	2.6	2.8	3.0	3.1
130°	2.8	2.8	2.7	3.2	2.8	2.7	2.6	2.7	2.8	3.0	3.1
130.5°	2.8	2.8	2.7	3.2	2.9	2.7	2.7	2.8	2.9	3.1	3.2
131°	2.8	2.8	2.8	3.3	2.9	2.8	2.7	2.8	3.0	3.1	3.2
131.5°	2.8	2.8	2.8	3.3	3.0	2.8	2.8	2.9	3.0	3.1	3.3
132°	2.8	2.8	2.8	3.3	3.1	2.9	2.8	2.9	3.1	3.2	3.3
132.5°	2.8	2.8	2.8	3.4	3.2	3.0	2.9	3.0	3.1	3.2	3.4
133°	2.8	2.9	2.8	3.4	3.3	3.0	3.0	3.1	3.2	3.3	3.4
133.5°	2.8	2.9	2.9	3.5	3.4	3.1	3.1	3.1	3.2	3.3	3.5



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	1.9	3.0	3.6	3.5	3.5	3.5	3.6	3.9	4.1	4.3	4.3
158°	1.9	3.0	3.6	3.5	3.6	3.6	3.6	3.8	4.1	4.2	4.2
158.5°	2.0	3.1	3.6	3.6	3.6	3.6	3.6	3.8	4.0	4.1	4.1
159°	2.0	3.0	3.6	3.6	3.6	3.6	3.6	3.7	3.9	4.0	4.1
159.5°	2.0	2.9	3.5	3.6	3.7	3.7	3.6	3.7	3.8	3.9	4.0
160°	2.0	2.9	3.5	3.6	3.7	3.7	3.6	3.7	3.8	3.9	3.9
160.5°	2.0	2.9	3.5	3.6	3.7	3.7	3.7	3.7	3.8	3.8	3.9
161°	2.0	2.9	3.4	3.6	3.7	3.8	3.7	3.7	3.7	3.8	3.9
161.5°	2.0	2.9	3.4	3.6	3.8	3.8	3.7	3.7	3.7	3.8	3.8
162°	2.0	2.9	3.4	3.6	3.8	3.8	3.8	3.7	3.7	3.8	3.8
162.5°	2.0	2.8	3.4	3.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
163°	2.0	2.7	3.4	3.6	3.8	3.9	3.8	3.8	3.8	3.8	3.9
163.5°	2.0	2.7	3.4	3.6	3.8	3.9	3.9	3.8	3.8	3.8	3.9
164°	2.0	2.6	3.4	3.6	3.8	3.9	3.9	3.8	3.8	3.8	3.9
164.5°	2.0	2.5	3.4	3.6	3.8	3.9	3.9	3.9	3.8	3.9	3.9
165°	2.1	2.4	3.3	3.6	3.8	3.9	3.9	3.9	3.9	3.9	3.9
165.5°	2.1	2.4	3.3	3.5	3.8	4.0	4.0	3.9	3.9	3.9	4.0
166°	2.1	2.5	3.3	3.5	3.8	4.0	4.0	4.0	3.9	3.9	4.0
166.5°	2.1	2.5	3.4	3.4	3.8	4.0	4.0	4.0	4.0	4.0	4.0
167°	2.1	2.5	3.3	3.5	3.8	4.0	4.0	4.0	4.0	4.0	4.0
167.5°	2.1	2.6	3.1	3.4	3.7	4.0	4.0	4.1	4.0	4.0	4.1
168°	2.1	2.6	3.2	3.2	3.8	4.0	4.1	4.1	4.1	4.1	4.1
168.5°	2.1	2.5	3.3	3.2	3.8	4.0	4.1	4.1	4.1	4.1	4.1
169°	2.2	2.3	3.1	3.4	3.7	4.0	4.1	4.1	4.1	4.1	4.1
169.5°	2.3	2.5	2.7	3.4	3.4	3.8	4.0	4.1	4.1	4.1	4.1
170°	2.3	2.7	2.9	3.3	3.4	3.8	4.0	4.1	4.1	4.1	4.1
170.5°	2.6	2.7	3.1	3.1	3.7	3.9	4.0	4.1	4.1	4.1	4.1
171°	2.9	2.7	3.2	3.2	3.6	3.7	4.0	4.1	4.1	4.1	4.1
171.5°	3.0	3.0	3.0	3.2	3.2	3.3	3.9	4.1	4.1	4.1	4.1
172°	3.0	3.1	3.0	3.2	3.3	3.2	3.8	4.0	4.0	4.1	4.1
172.5°	3.2	3.1	3.2	3.1	3.4	3.6	3.7	3.9	4.0	4.0	4.0
173°	3.2	3.2	3.2	3.2	3.2	3.5	3.7	3.8	3.9	3.9	3.9
173.5°	3.2	3.2	3.3	3.2	3.2	3.3	3.7	3.8	3.9	3.9	3.9
174°	3.2	3.3	3.3	3.1	3.3	3.4	3.5	3.8	3.8	3.8	3.8
174.5°	3.3	3.4	3.4	3.2	3.1	3.3	3.3	3.7	3.8	3.8	3.8
175°	3.4	3.4	3.5	3.3	3.1	3.2	3.5	3.7	3.8	3.8	3.8
175.5°	3.5	3.5	3.5	3.3	3.2	3.1	3.4	3.7	3.8	3.8	3.7
176°	3.5	3.5	3.5	3.4	3.0	3.0	3.2	3.6	3.8	3.8	3.7
176.5°	3.5	3.5	3.5	3.5	3.3	3.1	3.2	3.5	3.7	3.8	3.7
177°	3.5	3.5	3.6	3.5	3.3	3.1	3.3	3.5	3.6	3.6	3.6
177.5°	3.5	3.5	3.5	3.4	3.2	3.0	3.2	3.4	3.5	3.6	3.5
178°	3.5	3.5	3.5	3.4	3.2	3.0	3.0	3.2	3.4	3.6	3.4
178.5°	3.5	3.5	3.5	3.3	3.0	2.9	2.9	3.1	3.4	3.5	3.4



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6
0.5°	1869.0	1868.9	1868.8	1868.6	1868.5	1868.2	1868.0	1867.9	1867.9	1867.9	1867.9
1°	1869.0	1869.3	1869.5	1869.7	1869.5	1869.1	1868.6	1868.1	1867.7	1867.5	1867.4
1.5°	1869.6	1869.4	1868.9	1868.0	1867.4	1867.4	1867.4	1867.2	1866.7	1866.4	1866.4
2°	1869.5	1868.1	1866.5	1866.5	1866.4	1865.8	1865.5	1865.6	1865.3	1865.1	1865.0
2.5°	1868.0	1867.8	1868.0	1866.8	1866.7	1866.3	1865.2	1865.0	1864.6	1864.4	1863.9
3°	1867.2	1866.8	1866.5	1865.6	1865.6	1865.3	1864.9	1864.2	1862.7	1861.5	1861.8
3.5°	1865.8	1865.3	1865.3	1865.4	1864.5	1863.1	1862.8	1863.1	1860.9	1860.1	1859.8
4°	1865.4	1864.5	1863.8	1863.8	1863.5	1862.6	1861.2	1861.6	1860.4	1858.9	1857.6
4.5°	1862.0	1863.0	1861.2	1862.3	1862.4	1861.1	1859.6	1858.7	1858.1	1856.8	1855.9
5°	1861.2	1861.1	1860.8	1859.9	1860.3	1859.6	1858.3	1857.2	1856.5	1855.3	1852.9
5.5°	1860.1	1859.3	1859.0	1857.9	1858.3	1857.0	1856.7	1855.4	1854.7	1853.3	1850.7
6°	1858.0	1857.1	1856.3	1855.9	1855.6	1855.0	1854.5	1853.1	1852.0	1851.1	1847.8
6.5°	1855.3	1854.7	1854.2	1853.5	1852.9	1853.7	1852.5	1850.8	1848.7	1848.6	1845.2
7°	1853.0	1851.8	1852.4	1851.2	1850.9	1851.0	1850.2	1847.8	1845.8	1845.0	1842.7
7.5°	1849.9	1849.1	1849.3	1849.3	1847.9	1848.0	1846.9	1845.8	1842.8	1842.3	1840.2
8°	1847.0	1846.6	1846.1	1846.2	1845.6	1845.7	1843.3	1842.0	1840.0	1839.2	1836.2
8.5°	1843.2	1843.3	1842.7	1842.5	1842.9	1841.9	1841.6	1839.1	1837.9	1835.6	1833.0
9°	1839.5	1839.9	1839.5	1839.4	1840.0	1838.4	1837.9	1836.6	1833.6	1831.9	1829.4
9.5°	1836.5	1836.6	1835.6	1835.8	1835.9	1835.6	1833.8	1832.3	1829.4	1827.9	1824.9
10°	1832.4	1832.5	1831.7	1832.8	1832.2	1830.6	1830.8	1828.9	1826.0	1824.1	1820.8
10.5°	1828.2	1828.7	1827.0	1828.9	1828.3	1827.3	1827.4	1825.4	1822.7	1819.4	1817.0
11°	1823.1	1824.7	1823.9	1825.4	1824.6	1824.1	1823.5	1821.5	1818.3	1814.8	1812.1
11.5°	1818.4	1820.1	1819.1	1820.4	1820.4	1820.5	1819.0	1816.6	1813.3	1810.9	1807.1
12°	1813.8	1814.8	1814.5	1815.4	1816.4	1815.5	1814.6	1812.4	1809.5	1806.8	1802.3
12.5°	1808.9	1810.2	1810.1	1810.4	1812.0	1810.9	1809.9	1808.1	1805.3	1801.1	1798.0
13°	1803.8	1805.0	1804.5	1805.1	1806.5	1806.0	1805.7	1803.6	1801.0	1796.1	1793.0
13.5°	1797.9	1798.7	1798.8	1800.4	1801.3	1800.9	1800.8	1798.6	1795.0	1790.7	1786.6
14°	1791.7	1793.1	1794.0	1795.4	1796.3	1796.1	1795.7	1794.2	1789.7	1785.5	1781.0
14.5°	1785.6	1787.1	1788.3	1789.7	1791.2	1791.0	1790.5	1788.5	1785.2	1779.7	1775.1
15°	1779.3	1781.8	1782.3	1784.0	1786.3	1785.3	1785.4	1782.6	1779.9	1773.2	1769.2
15.5°	1772.8	1776.0	1776.8	1778.5	1780.7	1779.4	1780.0	1777.0	1773.6	1767.7	1763.2
16°	1765.8	1768.9	1770.3	1772.1	1774.3	1774.0	1774.1	1771.8	1767.5	1762.5	1757.2
16.5°	1759.1	1762.4	1763.7	1765.7	1767.8	1768.3	1767.7	1766.3	1762.1	1756.4	1750.3
17°	1751.9	1755.0	1756.8	1759.1	1761.9	1761.8	1761.7	1760.2	1755.7	1749.6	1743.0
17.5°	1744.6	1748.3	1750.2	1752.4	1755.9	1756.0	1756.6	1753.7	1749.1	1743.2	1736.4
18°	1737.4	1740.2	1743.4	1746.5	1749.0	1749.1	1749.6	1746.7	1742.2	1736.5	1729.0
18.5°	1729.4	1732.0	1736.5	1739.2	1742.3	1742.1	1742.1	1740.5	1735.6	1728.8	1721.3
19°	1721.0	1724.1	1728.4	1731.2	1735.3	1735.7	1735.8	1733.7	1729.3	1721.5	1714.2
19.5°	1712.6	1716.3	1720.5	1724.3	1727.7	1728.3	1728.8	1726.6	1722.0	1714.4	1706.3
20°	1705.1	1709.0	1712.9	1716.8	1720.2	1721.6	1721.6	1719.7	1714.8	1707.0	1698.6
20.5°	1696.5	1700.3	1705.2	1708.5	1713.1	1713.9	1714.0	1712.7	1707.5	1699.4	1690.5
21°	1687.4	1692.5	1696.3	1700.5	1704.9	1706.9	1706.8	1704.8	1699.8	1691.2	1682.5



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1659.7	1664.2	1670.2	1676.2	1680.8	1683.4	1683.3	1680.7	1675.8	1666.2	1657.4
23°	1650.0	1655.1	1661.5	1667.2	1672.3	1674.8	1675.0	1672.3	1667.6	1658.4	1647.8
23.5°	1640.2	1645.5	1652.0	1657.7	1664.2	1666.9	1667.1	1664.5	1659.0	1650.2	1639.0
24°	1629.8	1636.4	1642.2	1648.9	1655.0	1658.0	1658.5	1656.3	1650.7	1641.3	1630.0
24.5°	1619.6	1626.0	1632.9	1639.5	1645.8	1649.3	1650.4	1647.7	1641.8	1632.1	1620.6
25°	1609.7	1615.8	1623.4	1630.1	1636.6	1640.6	1641.9	1638.9	1632.9	1622.6	1610.8
25.5°	1599.0	1605.9	1613.1	1620.2	1627.1	1631.4	1632.4	1629.7	1623.8	1613.4	1601.6
26°	1588.3	1595.4	1603.2	1610.1	1617.9	1621.9	1622.8	1621.2	1614.8	1603.8	1591.5
26.5°	1577.5	1584.3	1592.5	1600.2	1608.7	1613.1	1613.7	1611.7	1604.9	1594.5	1581.5
27°	1566.0	1573.8	1582.0	1590.3	1598.2	1603.2	1604.2	1601.7	1595.7	1584.6	1571.4
27.5°	1554.9	1562.3	1571.4	1579.8	1588.8	1593.2	1594.4	1592.3	1586.0	1574.8	1561.0
28°	1543.1	1551.6	1560.0	1569.8	1578.3	1582.9	1584.4	1582.6	1575.9	1564.7	1550.3
28.5°	1531.5	1539.9	1549.5	1559.1	1567.5	1573.1	1574.7	1573.0	1566.0	1554.3	1540.3
29°	1519.7	1528.4	1538.6	1547.6	1557.7	1563.6	1565.0	1562.6	1555.8	1544.1	1529.4
29.5°	1507.2	1515.9	1526.9	1536.6	1546.9	1552.3	1555.1	1552.5	1545.1	1533.4	1518.1
30°	1495.6	1504.7	1515.5	1526.0	1536.0	1542.9	1543.9	1542.0	1534.4	1522.7	1507.3
30.5°	1483.2	1491.7	1503.8	1515.1	1525.0	1531.7	1533.0	1530.9	1524.8	1511.7	1495.9
31°	1469.7	1480.4	1492.3	1503.2	1514.2	1520.3	1523.0	1521.2	1513.6	1500.3	1484.8
31.5°	1457.0	1468.1	1480.1	1491.2	1503.3	1509.8	1511.9	1509.8	1502.2	1489.9	1473.4
32°	1444.4	1455.2	1467.8	1480.1	1491.2	1498.5	1500.5	1499.0	1491.9	1478.5	1461.7
32.5°	1431.4	1443.0	1455.9	1468.1	1479.5	1487.4	1489.7	1488.2	1480.1	1467.2	1450.2
33°	1418.4	1429.7	1443.7	1456.1	1468.7	1475.6	1478.8	1476.5	1469.2	1455.7	1437.8
33.5°	1405.0	1416.9	1430.8	1444.3	1456.4	1464.3	1466.7	1465.5	1457.7	1443.7	1425.8
34°	1391.8	1403.9	1418.2	1431.9	1443.8	1452.6	1455.3	1454.5	1446.2	1432.0	1413.9
34.5°	1378.8	1390.6	1405.4	1419.3	1432.1	1441.2	1443.9	1442.5	1433.9	1420.6	1403.2
35°	1364.9	1376.9	1392.3	1406.4	1420.3	1428.8	1432.4	1430.6	1422.5	1408.5	1391.4
35.5°	1350.5	1364.1	1379.2	1393.8	1407.9	1416.1	1420.2	1418.6	1410.7	1397.1	1378.2
36°	1336.6	1350.3	1366.1	1381.5	1394.9	1404.6	1408.2	1407.2	1398.9	1384.2	1365.1
36.5°	1322.7	1336.2	1353.0	1368.8	1382.6	1392.6	1396.2	1395.3	1386.3	1371.5	1352.0
37°	1308.7	1322.8	1339.4	1354.8	1370.6	1380.4	1383.8	1382.6	1373.6	1358.7	1338.8
37.5°	1295.0	1308.7	1325.9	1342.3	1357.4	1367.7	1371.2	1369.9	1361.0	1346.0	1325.8
38°	1280.5	1295.2	1312.7	1329.5	1344.8	1354.7	1358.6	1357.3	1348.4	1333.2	1312.9
38.5°	1266.7	1280.5	1299.3	1315.8	1330.7	1341.6	1346.1	1344.6	1335.8	1320.4	1299.4
39°	1252.2	1267.0	1285.1	1302.1	1318.0	1328.6	1333.1	1331.7	1322.8	1307.4	1286.5
39.5°	1238.2	1252.7	1271.2	1288.7	1304.8	1315.6	1319.8	1318.4	1309.5	1294.6	1272.8
40°	1223.3	1238.2	1257.1	1275.1	1291.4	1302.8	1307.0	1305.5	1296.7	1281.2	1259.6
40.5°	1208.3	1224.0	1242.5	1261.9	1277.6	1289.6	1293.8	1292.0	1283.5	1268.1	1246.2
41°	1193.5	1209.2	1228.8	1247.5	1264.5	1275.6	1280.2	1279.0	1270.3	1255.1	1232.8
41.5°	1179.5	1195.0	1214.7	1233.4	1250.4	1262.3	1267.1	1265.7	1257.3	1240.9	1218.6
42°	1165.1	1181.2	1200.5	1219.5	1236.7	1248.5	1253.1	1252.8	1243.3	1226.8	1204.8
42.5°	1150.6	1166.5	1186.3	1205.6	1222.6	1234.8	1239.7	1238.9	1230.1	1213.6	1190.6
43°	1135.8	1150.9	1171.6	1191.5	1209.0	1222.0	1226.0	1225.2	1216.1	1200.0	1178.0
43.5°	1120.5	1137.1	1157.5	1177.3	1195.3	1207.5	1212.3	1211.4	1202.1	1186.1	1163.6





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1076.8	1093.1	1114.0	1134.3	1153.3	1165.6	1170.3	1169.8	1160.8	1143.7	1121.0
45.5°	1061.5	1078.0	1099.4	1120.0	1138.2	1150.7	1156.6	1155.8	1146.1	1129.5	1106.6
46°	1046.7	1063.0	1084.8	1105.3	1123.8	1137.2	1142.0	1141.4	1131.6	1115.6	1092.4
46.5°	1031.7	1048.9	1069.5	1090.7	1109.0	1122.4	1127.6	1126.8	1117.6	1101.4	1078.3
47°	1017.2	1033.5	1054.9	1076.5	1095.3	1108.6	1113.7	1112.6	1103.1	1086.8	1063.7
47.5°	1002.4	1019.7	1040.3	1061.6	1080.8	1094.3	1098.4	1098.3	1089.0	1072.4	1049.2
48°	987.6	1004.0	1025.5	1046.9	1066.2	1079.6	1084.2	1083.4	1074.5	1058.2	1034.8
48.5°	973.1	989.6	1011.5	1032.6	1050.8	1064.4	1069.4	1069.1	1060.0	1043.5	1019.8
49°	958.1	975.2	997.0	1017.8	1037.1	1050.1	1055.1	1054.7	1045.8	1028.7	1005.7
49.5°	943.9	960.6	982.1	1002.9	1021.7	1036.1	1040.9	1040.0	1030.8	1014.1	991.4
50°	929.3	945.3	967.3	987.8	1007.8	1021.1	1026.3	1025.4	1016.2	999.8	976.5
50.5°	914.8	931.0	952.4	973.7	992.8	1006.5	1011.4	1010.6	1001.8	984.9	961.6
51°	899.9	916.4	937.8	959.3	978.4	991.4	996.3	995.7	986.3	970.1	947.1
51.5°	885.9	902.6	923.1	944.5	963.2	977.2	981.4	981.0	971.9	955.8	932.4
52°	871.5	887.4	908.6	929.3	948.7	961.4	967.0	966.2	957.1	940.4	917.6
52.5°	857.4	873.1	894.0	914.7	933.7	947.0	952.3	952.7	942.1	925.4	902.9
53°	843.2	858.8	879.2	900.2	919.2	931.9	938.3	937.7	927.1	910.8	888.4
53.5°	828.8	844.8	865.0	885.4	904.5	917.5	924.8	921.1	912.4	896.4	873.7
54°	814.6	829.2	850.7	870.6	889.6	902.2	908.8	906.1	897.0	881.2	859.3
54.5°	800.9	815.7	835.9	856.1	874.2	887.8	892.3	891.2	882.2	866.5	844.7
55°	786.4	801.8	821.6	841.6	859.8	872.6	877.2	875.9	867.1	851.6	829.7
55.5°	772.2	787.7	807.7	827.0	844.6	857.8	861.8	860.6	851.8	836.6	814.8
56°	758.3	773.3	793.1	812.1	829.9	842.2	846.8	847.3	837.2	821.6	800.3
56.5°	744.7	759.3	778.6	797.6	815.1	827.2	832.5	832.0	822.4	806.7	785.7
57°	731.3	745.2	763.9	783.3	800.3	812.4	819.2	815.0	807.7	791.9	771.0
57.5°	717.4	731.7	749.7	769.2	785.5	797.6	803.4	800.3	791.5	776.9	756.5
58°	703.7	717.8	736.1	754.6	770.4	782.6	785.9	785.1	776.5	762.0	741.7
58.5°	690.5	703.7	721.5	739.4	755.5	767.2	771.0	770.3	761.4	747.6	727.0
59°	677.2	690.0	707.1	724.7	741.2	752.2	756.2	755.3	746.7	732.2	712.2
59.5°	663.6	676.7	693.2	710.4	726.5	738.1	742.3	739.1	731.2	717.2	698.1
60°	650.6	663.3	679.3	696.4	712.8	723.2	726.6	724.0	716.2	702.5	683.0
60.5°	637.5	649.7	665.6	682.1	698.4	707.4	709.9	709.0	700.5	687.4	668.7
61°	624.4	636.2	652.2	667.9	682.8	691.6	694.4	694.0	685.7	672.3	654.2
61.5°	611.2	622.6	638.2	654.3	667.4	677.1	679.9	678.2	670.0	657.3	639.3
62°	598.1	609.0	624.3	639.9	657.2	663.8	665.7	663.2	654.9	642.8	624.9
62.5°	584.9	595.5	610.3	625.9	641.6	658.9	646.3	647.6	640.1	627.9	610.3
63°	571.9	582.4	596.2	611.2	627.2	640.5	631.3	632.8	625.2	613.0	596.5
63.5°	559.5	569.4	582.4	596.4	611.0	622.9	616.7	617.3	609.4	598.3	582.1
64°	547.1	556.6	568.9	581.9	594.7	605.2	602.0	601.7	594.6	583.6	567.7
64.5°	534.6	543.4	555.6	568.0	579.7	587.5	587.3	586.5	579.6	568.6	553.2
65°	522.2	530.8	542.5	554.3	564.8	571.7	572.2	571.7	564.7	553.8	539.4
65.5°	509.9	518.3	529.1	540.3	550.3	556.5	557.8	556.3	549.5	539.2	525.0
66°	497.5	505.7	515.7	526.7	535.9	543.0	542.9	541.1	534.6	524.6	510.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	461.9	468.2	477.4	486.1	493.5	497.6	497.1	495.8	489.8	480.9	468.9
68°	449.9	456.1	464.6	472.4	479.2	483.2	482.0	481.0	474.9	466.2	454.5
68.5°	438.2	443.8	451.4	458.9	465.1	468.4	467.6	465.8	459.6	451.6	441.0
69°	426.4	431.4	438.8	445.4	450.9	453.9	452.5	450.7	444.7	437.5	427.1
69.5°	414.6	419.2	426.2	432.3	437.4	439.8	437.8	435.3	430.2	423.2	413.7
70°	402.8	407.5	413.8	419.4	423.5	424.9	422.6	420.8	415.6	408.8	399.9
70.5°	391.8	395.8	401.5	406.2	409.6	410.3	407.9	406.0	400.5	394.8	386.1
71°	380.7	384.2	389.2	393.3	395.9	396.1	393.0	391.3	386.3	380.3	372.5
71.5°	369.3	372.8	376.8	380.2	382.3	381.8	378.4	376.5	371.6	366.3	359.3
72°	358.0	361.0	364.6	367.5	368.8	367.7	364.0	361.8	357.0	352.2	346.0
72.5°	347.2	349.3	352.6	354.6	355.6	353.8	349.5	347.0	342.5	338.5	332.9
73°	336.0	337.8	340.5	342.0	342.4	339.6	335.1	332.4	328.1	324.5	319.4
73.5°	325.3	326.5	328.7	329.6	329.1	325.9	320.8	318.0	314.0	310.8	306.5
74°	314.9	315.6	317.2	317.4	315.9	312.1	306.5	303.7	300.1	297.1	293.5
74.5°	304.2	304.6	305.6	305.0	302.8	298.5	292.3	289.2	285.9	283.4	281.0
75°	293.5	293.6	293.9	292.4	289.7	284.9	278.4	275.2	272.2	270.2	268.4
75.5°	283.3	282.8	282.5	280.5	277.1	271.4	264.6	261.2	258.1	257.1	256.0
76°	273.0	272.2	271.2	268.6	264.5	258.1	250.8	247.3	244.6	244.0	243.4
76.5°	262.9	261.5	260.0	256.6	252.1	245.0	236.9	233.4	231.1	231.1	231.5
77°	252.8	251.1	249.3	245.5	239.6	232.0	223.8	219.9	217.9	218.3	219.4
77.5°	242.9	240.9	238.3	233.8	227.3	219.1	210.3	206.5	204.5	206.0	207.7
78°	233.3	230.8	227.5	222.5	215.4	206.5	197.4	193.3	191.7	193.3	195.6
78.5°	223.8	220.8	217.1	211.4	203.7	194.1	184.6	180.3	178.9	181.2	184.6
79°	214.4	211.2	206.7	200.5	192.1	181.9	172.1	168.0	166.9	169.9	174.0
79.5°	205.1	201.4	196.6	189.4	180.8	169.9	159.3	155.7	154.9	158.7	163.4
80°	196.0	192.0	186.7	179.0	169.5	157.9	147.3	143.4	142.9	147.4	152.8
80.5°	187.1	182.7	176.9	168.3	158.4	146.7	135.6	131.1	130.9	136.1	142.2
81°	178.5	173.8	167.4	158.5	147.8	135.5	124.1	119.4	119.6	124.8	131.7
81.5°	170.0	164.9	158.0	148.5	137.6	124.7	112.7	107.5	108.7	114.2	121.7
82°	161.5	156.1	149.0	139.2	127.2	114.0	101.8	96.5	97.7	103.9	112.0
82.5°	153.2	147.7	140.1	129.6	117.4	103.8	91.5	86.2	87.4	94.2	102.9
83°	145.4	139.5	131.5	120.8	108.0	93.8	81.3	76.0	77.6	84.9	94.0
83.5°	137.7	131.6	123.2	112.1	98.8	84.5	71.8	66.4	68.5	75.8	85.5
84°	130.1	123.9	115.3	103.7	90.0	75.3	62.6	57.1	59.2	67.1	77.4
84.5°	123.0	116.3	107.3	95.3	81.6	66.8	54.8	48.4	50.8	58.9	69.7
85°	115.8	109.1	99.7	87.8	73.6	59.7	47.1	40.2	42.7	51.4	62.5
85.5°	108.9	102.0	92.6	80.4	66.2	52.7	39.4	32.7	35.4	44.4	55.7
86°	102.3	95.4	85.7	73.4	60.1	45.7	31.7	27.1	28.7	38.0	49.5
86.5°	96.0	89.0	79.1	66.9	54.0	38.8	25.0	21.6	24.2	32.0	43.6
87°	89.8	82.7	72.8	61.5	47.9	31.8	19.3	16.1	19.8	26.9	38.2
87.5°	83.9	76.7	67.1	56.0	41.8	26.4	14.4	10.6	15.3	23.5	33.2
88°	78.2	71.1	62.0	50.6	35.7	21.7	10.3	5.1	10.8	20.1	28.9
88.5°	72.9	65.4	57.1	45.1	30.9	17.7	7.2	2.3	6.6	16.7	25.1



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	59.1	52.1	42.7	31.5	19.7	9.2	3.2	0.7	2.8	8.3	17.6
90.5°	54.9	47.8	38.7	27.9	16.9	7.4	1.9	0.6	2.4	7.2	15.5
91°	50.7	43.8	35.0	24.8	14.5	6.6	1.5	0.4	2.1	6.3	13.5
91.5°	46.7	40.2	31.7	21.9	12.5	5.7	1.2	0.3	1.8	5.7	11.4
92°	43.1	36.7	28.6	19.6	10.9	4.9	0.9	0.3	1.7	5.3	10.4
92.5°	39.7	33.6	25.9	17.4	9.6	4.1	0.8	0.4	1.6	4.9	9.7
93°	36.7	30.8	23.5	15.6	8.6	3.7	0.7	0.4	1.4	4.6	9.1
93.5°	33.9	28.3	21.3	14.0	7.8	3.3	0.6	0.5	1.3	4.4	8.6
94°	31.2	25.9	19.4	12.8	7.2	3.0	0.6	0.6	1.2	4.3	8.2
94.5°	28.8	23.8	17.7	11.7	6.8	2.8	0.6	0.6	1.3	4.2	7.9
95°	26.6	21.9	16.3	10.9	6.4	2.5	0.7	0.7	1.3	4.2	7.6
95.5°	24.6	20.2	15.1	10.2	6.0	2.3	0.7	0.8	1.3	4.1	7.4
96°	22.9	18.8	14.1	9.7	5.6	2.2	0.9	0.9	1.3	4.0	7.2
96.5°	21.3	17.5	13.3	9.2	5.2	2.1	1.0	1.0	1.3	3.8	7.0
97°	19.9	16.5	12.6	8.7	4.9	1.9	1.1	1.1	1.3	3.7	6.9
97.5°	18.7	15.5	12.0	8.3	4.7	1.8	1.1	1.2	1.2	3.5	6.8
98°	17.7	14.8	11.5	7.9	4.4	1.7	1.2	1.3	1.3	3.4	6.7
98.5°	16.8	14.1	11.0	7.5	4.2	1.7	1.3	1.5	1.4	3.4	6.6
99°	16.0	13.6	10.5	7.1	3.9	1.6	1.4	1.6	1.5	3.3	6.5
99.5°	15.4	13.1	10.1	6.8	3.7	1.6	1.5	1.8	1.6	3.3	6.4
100°	14.8	12.6	9.6	6.5	3.5	1.6	1.6	1.9	1.7	3.3	6.2
100.5°	14.3	12.0	9.2	6.1	3.3	1.6	1.7	2.1	1.8	3.3	6.0
101°	13.8	11.6	8.8	5.8	3.1	1.6	1.8	2.2	1.9	3.2	5.9
101.5°	13.3	11.1	8.4	5.5	2.9	1.6	1.8	2.3	2.0	3.1	5.8
102°	12.7	10.7	8.1	5.2	2.8	1.6	1.9	2.4	2.1	3.0	5.7
102.5°	12.3	10.2	7.7	5.0	2.6	1.6	2.1	2.4	2.2	2.9	5.6
103°	11.8	9.8	7.4	4.7	2.5	1.6	2.2	2.5	2.3	2.8	5.4
103.5°	11.4	9.4	7.1	4.5	2.4	1.8	2.2	2.6	2.4	2.7	5.3
104°	10.9	9.1	6.8	4.3	2.3	1.9	2.3	2.6	2.5	2.7	5.2
104.5°	10.5	8.7	6.5	4.1	2.3	2.0	2.4	2.7	2.6	2.7	5.1
105°	10.1	8.3	6.2	3.9	2.3	2.1	2.7	2.8	2.6	2.6	4.9
105.5°	9.7	8.0	5.9	3.7	2.3	2.2	3.0	2.9	2.7	2.6	4.8
106°	9.3	7.7	5.7	3.5	2.2	2.2	3.4	3.0	2.9	2.6	4.6
106.5°	8.9	7.4	5.4	3.4	2.2	2.3	3.7	3.0	3.1	2.5	4.4
107°	8.6	7.1	5.1	3.2	2.2	2.3	4.0	3.1	3.5	2.5	4.2
107.5°	8.2	6.8	4.9	3.1	2.2	2.4	4.1	3.2	3.7	2.4	4.1
108°	7.9	6.5	4.7	3.0	2.2	2.4	4.1	3.2	3.7	2.5	4.0
108.5°	7.6	6.2	4.5	2.9	2.3	2.5	4.0	3.3	3.6	2.6	3.9
109°	7.3	5.9	4.3	2.8	2.4	2.6	3.9	3.3	3.6	2.6	3.8
109.5°	7.0	5.6	4.1	2.7	2.4	2.7	3.9	3.3	3.7	2.7	3.7
110°	6.7	5.4	3.9	2.6	2.5	2.7	3.8	3.4	3.7	2.8	3.6
110.5°	6.5	5.1	3.7	2.6	2.5	2.9	3.8	3.4	3.8	2.9	3.5
111°	6.2	4.9	3.6	2.6	2.6	3.0	3.8	3.5	3.9	2.9	3.5



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6	1868.6
0.5°	1868.0	1868.0	1868.0	1868.0	1868.1	1868.1	1868.1	1868.2	1868.2	1868.3	1868.3
1°	1867.4	1867.4	1867.1	1866.7	1866.4	1866.1	1866.3	1866.7	1867.1	1867.5	1867.8
1.5°	1866.4	1866.4	1866.5	1866.3	1866.1	1866.0	1866.2	1866.5	1866.8	1866.9	1867.2
2°	1864.8	1864.8	1864.6	1864.3	1864.0	1863.9	1864.2	1864.6	1865.2	1865.6	1865.7
2.5°	1863.7	1863.6	1862.8	1862.0	1862.1	1862.4	1862.4	1862.5	1863.1	1864.0	1864.5
3°	1862.0	1861.7	1860.7	1860.4	1860.6	1860.9	1860.8	1860.8	1861.4	1862.1	1862.4
3.5°	1859.1	1858.8	1858.6	1858.0	1858.2	1858.8	1859.1	1859.4	1859.9	1860.5	1861.2
4°	1857.6	1857.4	1856.6	1856.0	1856.2	1856.8	1857.2	1857.3	1857.4	1858.2	1858.8
4.5°	1854.7	1854.3	1854.1	1854.1	1854.0	1853.7	1854.0	1854.5	1854.8	1856.0	1857.4
5°	1852.4	1852.1	1851.1	1850.6	1850.1	1849.8	1850.6	1851.6	1852.7	1854.2	1855.8
5.5°	1850.0	1849.2	1848.5	1847.8	1847.5	1847.8	1847.8	1848.7	1850.1	1851.9	1853.7
6°	1846.6	1845.9	1845.4	1844.8	1844.7	1844.3	1844.2	1845.0	1846.7	1848.1	1850.4
6.5°	1843.4	1842.1	1841.5	1841.1	1840.8	1841.0	1841.0	1842.1	1843.6	1845.3	1847.8
7°	1840.8	1839.5	1837.9	1837.0	1837.3	1837.6	1838.0	1838.9	1840.7	1842.0	1845.4
7.5°	1837.6	1836.3	1834.1	1833.5	1832.8	1832.1	1833.1	1834.7	1836.5	1838.7	1841.7
8°	1833.4	1832.3	1830.4	1829.2	1828.5	1828.6	1829.2	1830.7	1832.5	1834.6	1838.1
8.5°	1829.3	1827.3	1826.2	1825.0	1824.0	1824.4	1824.7	1826.4	1828.8	1830.9	1834.4
9°	1824.7	1823.0	1821.7	1820.1	1819.9	1819.8	1819.9	1821.5	1824.4	1827.6	1831.6
9.5°	1820.9	1818.9	1816.4	1815.4	1814.9	1814.6	1814.9	1816.9	1819.7	1823.1	1827.5
10°	1817.8	1814.3	1812.0	1810.3	1809.8	1809.8	1809.7	1811.8	1815.2	1818.8	1822.9
10.5°	1812.5	1809.7	1806.7	1804.8	1804.0	1803.2	1804.6	1807.0	1810.1	1814.2	1819.3
11°	1807.2	1804.3	1801.4	1799.7	1798.7	1798.5	1798.9	1801.1	1804.9	1808.8	1814.4
11.5°	1801.9	1798.7	1795.7	1793.7	1792.9	1792.1	1793.3	1795.5	1799.5	1804.8	1808.8
12°	1797.5	1793.1	1789.8	1787.9	1786.6	1786.2	1787.8	1790.5	1794.2	1799.9	1805.2
12.5°	1792.4	1787.7	1784.3	1782.2	1780.9	1779.5	1781.4	1784.2	1788.3	1793.8	1800.5
13°	1786.8	1781.6	1778.0	1775.4	1773.3	1772.8	1775.1	1777.8	1781.8	1788.1	1794.4
13.5°	1780.2	1775.1	1771.4	1768.5	1766.4	1766.2	1768.2	1770.8	1775.7	1781.7	1789.2
14°	1774.7	1769.1	1764.9	1761.8	1759.6	1760.2	1760.9	1764.2	1769.6	1776.6	1782.7
14.5°	1768.4	1762.1	1758.3	1755.2	1751.9	1752.4	1754.4	1757.3	1762.8	1770.2	1777.3
15°	1761.9	1755.7	1751.6	1747.6	1745.4	1745.0	1746.8	1750.6	1755.6	1763.2	1770.9
15.5°	1755.9	1749.2	1743.9	1739.8	1738.1	1737.1	1739.0	1742.9	1748.9	1756.4	1764.7
16°	1749.2	1742.3	1736.4	1731.8	1729.2	1729.0	1730.8	1735.1	1741.3	1749.1	1757.7
16.5°	1742.1	1735.0	1728.9	1724.1	1721.6	1721.8	1723.4	1727.3	1734.1	1742.0	1750.8
17°	1735.0	1727.5	1721.5	1716.6	1713.9	1713.4	1715.2	1719.3	1726.3	1735.4	1743.9
17.5°	1727.6	1719.9	1713.6	1708.5	1705.4	1704.6	1707.1	1711.0	1718.0	1727.6	1737.6
18°	1720.0	1711.8	1705.3	1699.6	1696.5	1695.4	1697.4	1703.2	1710.4	1719.8	1730.3
18.5°	1712.2	1704.0	1696.4	1690.4	1687.7	1687.2	1689.2	1694.7	1702.7	1712.0	1722.6
19°	1705.0	1695.3	1687.5	1681.5	1679.4	1677.4	1679.5	1685.3	1693.2	1703.7	1714.1
19.5°	1696.1	1686.7	1678.7	1672.5	1669.9	1668.3	1670.7	1676.0	1684.4	1695.8	1706.7
20°	1688.3	1678.6	1670.1	1663.3	1659.6	1659.0	1662.0	1667.2	1676.0	1687.4	1699.8
20.5°	1680.1	1669.7	1661.1	1653.7	1649.5	1649.1	1652.1	1658.4	1667.2	1678.8	1691.8
21°	1671.2	1660.9	1651.7	1644.0	1639.4	1639.2	1642.2	1648.4	1658.1	1670.4	1682.8





TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1644.5	1632.4	1622.2	1614.4	1608.7	1607.9	1610.5	1617.3	1628.4	1642.9	1656.6
23°	1635.7	1622.7	1612.5	1603.8	1598.4	1598.1	1600.2	1607.5	1618.9	1633.3	1648.3
23.5°	1625.9	1612.4	1601.8	1593.1	1588.4	1586.4	1589.2	1596.7	1608.7	1623.2	1638.8
24°	1616.5	1602.6	1591.1	1581.5	1576.8	1574.8	1577.5	1586.3	1597.9	1613.1	1628.9
24.5°	1606.7	1592.7	1580.2	1570.3	1565.6	1563.1	1567.1	1576.3	1588.2	1603.2	1619.6
25°	1598.0	1582.4	1570.3	1559.8	1554.8	1551.9	1555.8	1565.2	1577.6	1593.1	1609.5
25.5°	1586.7	1571.6	1559.3	1548.5	1542.4	1540.4	1544.1	1553.2	1566.1	1582.4	1600.1
26°	1576.3	1560.7	1547.5	1537.2	1531.3	1528.6	1532.7	1541.8	1555.8	1572.4	1590.4
26.5°	1566.0	1550.1	1535.9	1525.5	1519.7	1516.8	1520.1	1530.3	1544.4	1561.8	1579.7
27°	1556.1	1539.8	1524.9	1513.1	1507.0	1505.3	1508.4	1518.2	1533.1	1550.5	1569.2
27.5°	1545.2	1527.7	1513.2	1500.9	1494.0	1493.3	1496.6	1506.2	1521.2	1540.1	1558.4
28°	1533.8	1516.5	1501.7	1488.9	1482.4	1480.4	1484.7	1495.2	1510.2	1528.7	1548.3
28.5°	1523.3	1505.8	1490.0	1477.5	1470.1	1467.8	1471.6	1482.7	1498.5	1517.1	1536.5
29°	1512.2	1493.7	1477.9	1464.6	1457.1	1456.0	1460.0	1469.7	1485.6	1505.2	1525.7
29.5°	1500.9	1481.6	1465.6	1452.0	1444.7	1442.4	1445.8	1457.3	1473.9	1494.3	1515.3
30°	1489.4	1469.7	1453.3	1439.5	1431.5	1429.4	1433.9	1445.2	1461.9	1482.8	1503.9
30.5°	1477.6	1458.0	1440.9	1426.7	1419.2	1416.4	1420.7	1432.1	1449.1	1470.4	1492.1
31°	1466.0	1445.8	1428.3	1414.0	1406.1	1403.3	1408.1	1419.7	1436.8	1458.2	1481.0
31.5°	1454.0	1433.6	1415.8	1401.0	1392.5	1389.7	1394.7	1407.0	1424.6	1446.5	1469.0
32°	1441.8	1421.5	1403.3	1387.4	1379.0	1376.1	1381.2	1393.5	1412.3	1434.3	1457.4
32.5°	1430.5	1409.1	1390.2	1373.8	1365.4	1362.5	1367.7	1380.0	1399.4	1422.3	1445.4
33°	1418.0	1396.1	1377.1	1360.1	1351.8	1349.0	1354.3	1366.5	1386.1	1410.0	1433.7
33.5°	1405.1	1383.0	1364.1	1346.4	1338.2	1335.4	1340.8	1353.1	1372.8	1397.3	1421.6
34°	1394.4	1370.1	1351.2	1333.6	1323.7	1321.6	1326.2	1339.4	1359.6	1384.4	1409.3
34.5°	1381.2	1357.3	1337.9	1320.6	1310.2	1307.2	1312.6	1326.4	1346.4	1371.5	1397.5
35°	1368.2	1344.1	1323.4	1306.7	1296.5	1293.1	1299.0	1313.0	1333.1	1358.6	1384.8
35.5°	1355.2	1330.9	1310.0	1293.1	1282.6	1279.3	1285.0	1299.4	1319.5	1345.7	1372.2
36°	1342.2	1318.0	1296.8	1278.5	1268.0	1265.0	1270.6	1284.2	1305.8	1332.8	1359.6
36.5°	1329.0	1304.3	1282.1	1264.4	1253.4	1250.9	1256.4	1270.8	1291.9	1318.7	1347.0
37°	1315.7	1290.1	1268.5	1250.7	1239.0	1235.9	1241.9	1257.1	1278.2	1305.1	1333.8
37.5°	1302.5	1276.5	1254.7	1236.5	1225.7	1221.7	1227.8	1242.5	1264.0	1291.4	1320.6
38°	1288.6	1262.6	1240.3	1221.5	1210.5	1208.0	1213.1	1228.6	1250.6	1278.0	1306.5
38.5°	1275.2	1249.1	1226.2	1207.6	1196.3	1192.5	1199.0	1214.2	1236.5	1264.5	1293.3
39°	1261.8	1235.5	1211.9	1193.1	1182.0	1178.5	1185.0	1200.2	1222.5	1250.8	1280.0
39.5°	1247.9	1221.9	1198.2	1178.7	1167.8	1163.8	1169.7	1185.4	1208.2	1236.8	1266.8
40°	1234.6	1207.5	1183.9	1164.6	1152.8	1149.3	1155.6	1171.1	1193.8	1222.9	1253.1
40.5°	1220.9	1193.4	1169.7	1149.9	1138.0	1134.6	1140.3	1156.1	1180.3	1208.9	1239.8
41°	1207.1	1179.2	1155.2	1135.0	1123.5	1119.9	1126.5	1142.3	1165.6	1195.1	1225.7
41.5°	1193.0	1165.3	1141.0	1121.0	1108.9	1105.6	1111.3	1127.9	1151.5	1181.0	1211.9
42°	1178.8	1150.8	1126.2	1106.4	1093.8	1090.6	1097.2	1112.9	1137.1	1166.5	1198.8
42.5°	1165.3	1137.1	1111.8	1091.8	1079.4	1076.2	1082.3	1098.7	1123.1	1152.1	1184.0
43°	1151.5	1122.3	1097.8	1077.2	1064.3	1061.8	1068.2	1084.3	1108.7	1138.5	1170.4
43.5°	1137.0	1108.3	1083.1	1062.3	1050.3	1046.7	1053.1	1069.2	1093.5	1124.4	1156.2



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	1094.1	1064.4	1039.1	1018.8	1006.8	1002.6	1008.8	1025.7	1049.8	1081.3	1114.0
45.5°	1079.9	1050.4	1025.3	1004.0	991.9	988.2	994.8	1011.4	1035.6	1066.7	1099.5
46°	1065.5	1036.2	1010.3	989.8	977.1	974.2	980.4	997.1	1021.7	1052.3	1085.4
46.5°	1051.0	1021.6	996.0	975.2	962.8	959.5	965.8	982.9	1007.4	1037.9	1070.8
47°	1036.8	1006.8	981.3	960.7	947.9	944.8	951.5	967.8	992.6	1023.4	1057.0
47.5°	1022.0	992.5	967.2	946.3	933.7	930.8	937.0	953.5	978.0	1009.0	1042.3
48°	1007.2	978.4	952.0	931.7	919.6	915.9	922.0	938.8	963.5	994.3	1027.6
48.5°	992.7	963.7	938.1	917.6	905.4	901.7	908.3	924.5	949.0	980.0	1012.8
49°	978.5	949.0	923.6	903.5	890.6	887.3	894.3	910.6	935.3	966.1	998.4
49.5°	964.7	934.6	909.6	889.3	876.3	873.7	879.8	896.3	920.3	951.4	984.5
50°	948.9	920.2	894.8	874.6	862.2	859.2	866.1	881.8	906.6	936.7	970.2
50.5°	935.2	905.7	879.8	860.2	848.6	845.3	851.1	867.2	892.0	922.2	955.5
51°	920.4	891.0	866.3	846.4	834.1	831.8	837.5	853.4	877.3	907.8	941.3
51.5°	905.7	876.8	852.3	832.6	820.2	817.6	823.8	839.9	863.5	893.7	926.5
52°	890.8	862.9	838.2	818.7	806.3	803.6	809.9	826.2	849.6	880.0	912.1
52.5°	876.4	848.6	824.1	804.5	792.9	790.5	795.9	812.1	835.7	865.5	897.6
53°	862.1	834.2	809.5	790.5	778.9	776.8	782.4	798.1	821.5	851.1	883.3
53.5°	847.7	820.0	795.4	776.7	765.1	762.7	769.2	784.0	807.7	836.9	869.5
54°	833.4	805.9	781.4	763.1	751.6	748.5	754.8	770.0	793.4	822.6	854.9
54.5°	818.9	791.2	767.5	749.2	738.0	735.6	741.9	756.5	779.6	808.4	840.0
55°	804.3	776.7	753.8	735.8	724.3	722.1	728.0	743.1	765.6	794.6	825.6
55.5°	790.4	763.0	739.9	722.1	711.6	709.1	715.0	729.5	751.8	780.4	810.9
56°	775.7	748.8	726.0	708.7	698.1	696.0	701.7	715.7	737.9	766.4	797.0
56.5°	761.1	734.5	712.6	695.5	684.4	682.3	688.6	702.7	724.6	752.3	782.5
57°	747.0	720.8	698.7	682.0	671.5	669.7	675.5	689.7	710.7	738.1	768.2
57.5°	732.1	707.1	685.5	668.5	658.4	656.4	661.8	675.9	697.3	724.0	753.7
58°	718.1	693.0	671.7	655.3	645.9	643.6	649.3	662.8	683.6	710.0	739.6
58.5°	703.6	679.5	658.5	642.2	632.7	631.0	636.4	649.7	670.5	696.5	725.9
59°	689.5	665.7	644.9	629.4	619.7	618.0	623.5	636.8	657.0	682.8	711.6
59.5°	675.5	651.7	632.0	616.2	606.7	605.2	611.3	623.9	644.0	669.0	697.4
60°	661.2	638.4	619.0	603.1	594.7	593.1	598.3	610.9	630.5	655.4	682.9
60.5°	647.3	624.7	605.5	590.3	581.8	580.2	585.5	598.0	617.5	641.8	668.5
61°	632.9	611.1	592.3	577.7	569.2	567.9	572.8	585.4	604.2	628.3	655.0
61.5°	618.9	597.6	579.5	565.6	557.6	555.6	560.9	572.9	591.5	614.7	640.6
62°	604.6	584.2	566.8	552.7	544.7	543.5	548.5	560.6	578.4	601.5	626.6
62.5°	591.2	571.0	553.7	540.1	532.3	531.5	536.2	548.0	565.6	588.2	612.8
63°	577.4	557.8	540.6	527.6	520.4	519.2	524.0	535.4	552.7	574.7	599.0
63.5°	563.8	544.4	527.9	515.3	508.5	507.3	512.1	523.1	540.1	561.7	585.5
64°	549.6	531.2	515.9	503.3	496.6	495.5	499.9	511.1	527.2	548.6	571.5
64.5°	536.1	518.2	503.0	491.0	484.3	483.8	488.3	498.8	514.8	535.2	558.0
65°	522.5	505.2	490.5	479.1	472.9	471.9	476.6	486.9	502.5	522.3	544.3
65.5°	508.9	492.4	478.6	467.3	461.1	460.3	464.9	474.9	490.3	509.3	530.7
66°	495.8	479.6	466.4	455.1	449.1	448.5	452.7	462.7	477.7	496.6	517.1



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	455.0	441.0	429.2	420.1	415.0	414.5	418.7	427.7	441.1	458.1	476.4
68°	441.8	428.6	417.2	408.4	403.9	403.5	407.5	416.3	428.8	445.6	463.6
68.5°	428.9	416.0	405.3	397.1	392.8	392.1	396.2	404.9	417.2	433.1	450.7
69°	415.8	403.5	393.6	385.8	381.6	381.4	385.0	393.4	405.3	420.6	437.7
69.5°	402.7	391.4	381.7	374.3	370.1	370.1	373.8	382.0	393.5	408.0	424.3
70°	390.0	379.2	370.3	363.0	359.5	359.7	363.1	370.7	381.7	395.6	411.2
70.5°	376.7	367.0	358.5	352.2	348.8	349.0	352.4	359.5	370.0	383.6	397.9
71°	364.1	354.9	347.3	341.3	338.1	338.2	341.6	348.5	358.7	371.3	385.6
71.5°	351.6	343.0	335.9	330.3	327.3	327.5	331.0	337.5	347.3	359.4	372.5
72°	339.0	331.3	324.7	319.5	316.9	317.5	320.5	326.8	336.0	347.6	360.1
72.5°	326.4	319.5	313.5	308.8	306.6	306.9	310.2	316.2	324.8	335.6	347.2
73°	314.2	307.9	302.4	298.2	296.1	296.6	299.6	305.5	313.4	323.9	335.4
73.5°	301.9	296.4	291.3	287.7	286.1	286.4	289.5	294.8	302.6	312.2	322.7
74°	289.6	284.8	280.7	277.6	275.8	276.9	279.4	284.5	291.7	300.8	310.3
74.5°	277.7	273.6	269.9	267.5	266.0	266.9	269.5	274.4	281.0	289.2	297.9
75°	266.0	262.7	259.6	257.2	256.2	257.1	259.6	264.0	270.3	277.9	286.4
75.5°	254.4	251.6	248.9	247.3	246.6	247.4	249.7	253.9	259.6	266.7	274.4
76°	242.5	240.8	239.0	237.4	236.7	237.8	240.1	244.1	249.5	255.7	262.7
76.5°	231.1	229.9	228.8	227.7	227.4	228.4	230.6	234.4	239.1	244.7	250.9
77°	220.0	219.4	219.0	218.3	218.1	219.2	221.3	224.6	229.0	233.9	239.5
77.5°	208.7	209.0	208.9	209.0	209.2	210.2	212.3	215.2	219.1	223.4	227.6
78°	197.9	199.1	199.4	199.8	200.5	201.4	203.2	206.0	209.5	213.1	216.7
78.5°	187.5	189.4	190.2	190.7	191.6	192.8	194.5	196.9	199.6	202.8	205.6
79°	176.9	179.4	180.9	182.0	183.0	184.3	185.9	188.0	190.3	192.7	195.0
79.5°	167.0	170.0	172.1	173.6	174.7	176.0	177.7	179.3	181.1	182.9	184.0
80°	157.2	161.3	163.9	165.6	167.1	168.0	169.4	170.7	172.4	173.2	173.9
80.5°	147.4	152.5	155.6	157.8	159.4	160.5	161.7	162.7	164.1	164.1	164.2
81°	137.6	143.7	147.4	150.0	151.8	152.9	154.1	155.0	155.8	155.3	154.5
81.5°	128.5	134.8	139.1	142.3	144.2	145.4	146.5	147.3	147.5	146.5	144.8
82°	120.0	126.3	131.0	134.5	136.6	137.8	138.9	139.5	139.2	137.6	135.1
82.5°	111.3	118.4	123.4	127.0	129.5	130.9	131.8	131.9	131.0	129.1	125.7
83°	102.9	110.5	116.0	119.9	122.5	124.0	124.7	124.6	123.3	120.8	117.0
83.5°	95.0	102.9	108.9	113.0	115.6	117.1	117.9	117.5	116.0	112.9	108.3
84°	87.3	95.6	101.9	106.3	109.0	110.7	111.3	110.7	108.7	105.2	100.1
84.5°	80.0	88.9	95.3	99.8	102.7	104.3	104.8	104.0	101.9	97.8	92.0
85°	73.2	82.2	88.8	93.6	96.7	98.2	98.6	97.6	95.0	90.8	84.6
85.5°	66.6	75.8	82.7	87.6	90.7	92.1	92.4	91.5	88.6	84.0	77.4
86°	60.5	69.6	76.8	81.9	85.0	86.5	86.9	85.6	82.4	77.4	70.5
86.5°	54.6	64.1	71.3	76.3	79.5	81.1	81.3	79.8	76.6	71.2	63.9
87°	49.2	58.7	65.9	71.1	74.5	76.0	76.1	74.4	71.0	65.4	57.8
87.5°	44.2	53.6	61.0	66.3	69.5	71.1	71.0	69.3	65.7	59.9	52.1
88°	39.6	49.0	56.3	61.6	64.9	66.3	66.3	64.5	60.6	54.9	46.8
88.5°	35.4	44.7	51.9	57.2	60.4	61.9	61.7	59.8	56.0	50.1	42.0



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	25.3	33.7	40.5	45.5	48.7	50.1	49.8	47.6	43.5	37.6	29.7
90.5°	22.7	30.6	37.3	42.2	45.3	46.6	46.2	44.1	40.1	34.1	26.4
91°	20.4	28.0	34.4	39.2	42.2	43.4	43.0	40.9	36.9	31.0	23.6
91.5°	18.5	25.6	31.7	36.4	39.3	40.4	40.0	37.9	33.9	28.2	21.1
92°	17.3	23.6	29.4	33.8	36.6	37.8	37.3	35.1	31.3	25.8	19.0
92.5°	16.2	21.8	27.2	31.5	34.2	35.2	34.8	32.6	28.9	23.6	17.6
93°	15.1	20.3	25.5	29.5	32.0	33.0	32.5	30.5	26.8	21.7	16.4
93.5°	14.0	19.0	23.9	27.6	30.1	31.0	30.5	28.5	25.0	20.2	15.2
94°	12.9	17.9	22.6	26.1	28.4	29.3	28.8	26.8	23.4	18.8	13.9
94.5°	12.3	17.1	21.4	24.8	26.9	27.7	27.2	25.2	22.0	17.7	12.7
95°	11.8	16.3	20.4	23.6	25.6	26.3	25.7	23.9	20.8	16.7	12.0
95.5°	11.3	15.7	19.5	22.5	24.4	25.0	24.5	22.8	19.8	15.9	11.5
96°	11.0	15.2	18.7	21.5	23.3	23.9	23.4	21.7	18.9	15.2	11.1
96.5°	10.7	14.7	18.0	20.7	22.4	23.0	22.5	20.9	18.1	14.7	10.7
97°	10.4	14.3	17.4	19.9	21.5	22.1	21.7	20.2	17.5	14.1	10.2
97.5°	10.2	13.8	16.9	19.3	20.8	21.3	20.9	19.5	17.0	13.6	9.8
98°	10.1	13.4	16.4	18.7	20.1	20.6	20.3	18.9	16.5	13.0	9.4
98.5°	9.9	13.1	15.9	18.1	19.5	20.1	19.7	18.3	16.0	12.5	9.0
99°	9.8	12.8	15.5	17.6	19.0	19.5	19.1	17.8	15.4	12.1	8.9
99.5°	9.7	12.6	15.2	17.2	18.4	18.9	18.5	17.2	15.0	11.7	8.8
100°	9.5	12.4	14.9	16.8	18.0	18.4	18.0	16.7	14.5	11.4	8.7
100.5°	9.4	12.3	14.6	16.5	17.6	18.0	17.5	16.2	14.1	11.2	8.5
101°	9.2	12.1	14.4	16.1	17.2	17.6	17.0	15.7	13.6	11.1	8.5
101.5°	9.1	11.9	14.1	15.8	16.8	17.2	16.6	15.3	13.2	10.9	8.3
102°	8.9	11.8	13.9	15.5	16.5	16.8	16.3	15.0	13.1	10.8	8.2
102.5°	8.7	11.6	13.7	15.3	16.2	16.5	15.9	14.8	12.9	10.7	8.0
103°	8.6	11.4	13.4	15.0	15.9	16.2	15.7	14.6	12.7	10.6	7.8
103.5°	8.4	11.2	13.3	14.8	15.7	16.0	15.5	14.4	12.6	10.4	7.6
104°	8.2	11.0	13.1	14.6	15.4	15.8	15.3	14.3	12.4	10.3	7.4
104.5°	8.0	10.8	12.9	14.4	15.2	15.5	15.1	14.1	12.3	10.1	7.2
105°	7.8	10.6	12.7	14.1	15.0	15.4	14.9	13.9	12.2	9.9	7.0
105.5°	7.7	10.4	12.5	13.9	14.8	15.2	14.8	13.7	12.0	9.7	6.8
106°	7.5	10.1	12.2	13.7	14.6	15.0	14.6	13.5	11.8	9.4	6.6
106.5°	7.3	9.9	12.0	13.4	14.3	14.8	14.4	13.3	11.6	9.2	6.4
107°	7.2	9.7	11.7	13.2	14.1	14.5	14.1	13.1	11.3	8.9	6.2
107.5°	7.0	9.5	11.4	13.0	13.8	14.2	13.9	12.8	11.1	8.7	6.1
108°	6.8	9.3	11.2	12.7	13.6	14.0	13.7	12.6	10.8	8.4	5.9
108.5°	6.6	9.1	11.0	12.4	13.3	13.7	13.4	12.3	10.5	8.2	5.8
109°	6.4	8.9	10.8	12.2	13.0	13.4	13.1	12.0	10.2	8.0	5.6
109.5°	6.3	8.7	10.6	11.9	12.7	13.1	12.8	11.7	9.9	7.8	5.5
110°	6.1	8.5	10.3	11.6	12.4	12.8	12.5	11.4	9.7	7.6	5.3
110.5°	5.9	8.3	10.0	11.3	12.1	12.5	12.2	11.1	9.4	7.4	5.1
111°	5.7	8.1	9.8	11.1	11.9	12.2	11.9	10.8	9.2	7.2	5.0



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.1	7.4	9.2	10.4	11.1	11.4	11.1	10.0	8.4	6.7	4.5
113°	4.9	7.2	9.0	10.1	10.8	11.1	10.8	9.8	8.2	6.6	4.4
113.5°	4.7	7.0	8.8	9.9	10.6	10.8	10.6	9.6	8.0	6.4	4.2
114°	4.5	6.7	8.6	9.7	10.3	10.6	10.3	9.3	7.8	6.2	4.1
114.5°	4.4	6.5	8.3	9.5	10.1	10.4	10.1	9.1	7.6	6.1	4.0
115°	4.3	6.3	8.1	9.3	9.9	10.1	9.8	8.9	7.4	5.9	3.8
115.5°	4.2	6.0	7.9	9.1	9.7	9.8	9.6	8.6	7.2	5.6	3.8
116°	4.1	5.8	7.6	8.8	9.4	9.6	9.3	8.4	7.0	5.4	3.7
116.5°	4.0	5.6	7.4	8.6	9.3	9.4	9.1	8.1	6.8	5.3	3.6
117°	4.0	5.4	7.1	8.4	9.1	9.1	8.8	7.9	6.6	5.1	3.5
117.5°	3.9	5.2	6.9	8.1	8.8	8.9	8.6	7.7	6.4	4.9	3.5
118°	3.9	5.0	6.6	7.9	8.6	8.7	8.4	7.5	6.1	4.8	3.4
118.5°	3.8	4.9	6.3	7.7	8.3	8.5	8.1	7.3	5.8	4.6	3.3
119°	3.7	4.7	6.1	7.4	8.1	8.2	7.9	7.0	5.6	4.5	3.1
119.5°	3.5	4.6	5.8	7.1	7.9	8.0	7.7	6.7	5.4	4.3	3.0
120°	3.4	4.5	5.6	6.8	7.6	7.8	7.4	6.5	5.2	4.2	2.9
120.5°	3.2	4.4	5.4	6.6	7.3	7.5	7.2	6.2	5.0	4.1	2.8
121°	3.1	4.3	5.3	6.3	7.0	7.2	6.9	6.0	4.9	4.0	2.8
121.5°	3.0	4.2	5.1	6.0	6.7	6.9	6.6	5.8	4.7	3.9	2.7
122°	3.1	4.1	5.0	5.8	6.5	6.6	6.3	5.6	4.6	3.8	2.7
122.5°	3.1	4.1	4.8	5.6	6.2	6.4	6.1	5.4	4.4	3.7	2.8
123°	3.2	4.0	4.7	5.5	6.0	6.1	5.9	5.2	4.3	3.5	2.8
123.5°	3.2	3.8	4.6	5.3	5.8	5.9	5.7	5.1	4.2	3.3	2.9
124°	3.3	3.7	4.5	5.2	5.6	5.7	5.5	4.9	4.1	3.1	2.9
124.5°	3.3	3.5	4.3	5.0	5.4	5.5	5.4	4.8	4.0	2.9	3.0
125°	3.4	3.3	4.2	4.9	5.3	5.4	5.2	4.7	3.9	2.8	3.0
125.5°	3.5	3.1	4.1	4.8	5.1	5.2	5.1	4.6	3.8	2.7	3.0
126°	3.5	3.0	4.0	4.6	5.0	5.1	4.9	4.5	3.6	2.6	3.1
126.5°	3.6	3.0	3.8	4.5	4.8	4.9	4.8	4.4	3.4	2.5	3.1
127°	3.7	3.0	3.7	4.4	4.7	4.8	4.7	4.3	3.2	2.6	3.2
127.5°	3.7	3.1	3.5	4.3	4.6	4.7	4.6	4.1	3.1	2.6	3.2
128°	3.8	3.2	3.3	4.1	4.5	4.6	4.5	4.0	3.0	2.7	3.2
128.5°	3.8	3.2	3.2	4.0	4.4	4.4	4.4	3.8	2.9	2.7	3.2
129°	3.9	3.3	3.0	3.8	4.3	4.4	4.2	3.5	2.7	2.8	3.2
129.5°	4.0	3.3	2.9	3.6	4.1	4.2	4.0	3.4	2.7	2.8	3.2
130°	4.0	3.4	3.0	3.4	3.9	4.0	3.8	3.2	2.7	2.9	3.3
130.5°	4.0	3.4	3.0	3.2	3.7	3.8	3.6	3.1	2.8	2.9	3.3
131°	4.0	3.5	3.1	3.0	3.5	3.6	3.4	3.0	2.8	3.0	3.3
131.5°	4.1	3.5	3.2	2.9	3.3	3.4	3.3	2.8	2.9	3.0	3.3
132°	4.1	3.6	3.2	2.9	3.1	3.3	3.1	2.8	2.9	3.1	3.4
132.5°	4.2	3.6	3.3	3.0	2.9	3.1	2.9	2.9	3.0	3.2	3.4
133°	4.3	3.7	3.3	3.0	2.9	2.9	2.9	2.9	3.0	3.2	3.5
133.5°	4.4	3.8	3.3	3.1	2.9	2.9	2.9	3.0	3.1	3.3	3.7



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	4.9	4.6	4.5	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.0
158°	4.7	4.5	4.5	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.1
158.5°	4.4	4.5	4.6	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.1
159°	4.3	4.4	4.6	4.5	4.3	4.4	4.4	4.4	4.4	4.3	4.2
159.5°	4.3	4.4	4.7	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.2
160°	4.3	4.5	4.8	4.6	4.4	4.4	4.4	4.5	4.5	4.4	4.3
160.5°	4.2	4.4	4.8	4.7	4.5	4.5	4.5	4.5	4.6	4.5	4.3
161°	4.2	4.4	4.7	4.7	4.6	4.5	4.5	4.6	4.6	4.5	4.3
161.5°	4.2	4.3	4.5	4.8	4.6	4.6	4.6	4.7	4.7	4.6	4.4
162°	4.2	4.2	4.5	4.8	4.7	4.7	4.7	4.8	4.8	4.7	4.4
162.5°	4.1	4.2	4.4	4.8	4.8	4.7	4.8	4.8	4.8	4.7	4.4
163°	4.1	4.2	4.4	4.8	4.8	4.8	4.8	4.9	4.9	4.7	4.4
163.5°	4.1	4.2	4.4	4.7	4.9	4.9	4.9	4.9	4.9	4.7	4.4
164°	4.0	4.2	4.2	4.6	4.9	4.9	5.0	5.0	4.9	4.8	4.4
164.5°	4.0	4.2	4.2	4.5	4.9	5.0	5.0	5.0	5.0	4.9	3.9
165°	4.0	4.2	4.2	4.5	5.0	5.0	5.0	5.1	5.0	4.5	3.7
165.5°	3.9	4.1	4.2	4.4	4.9	5.0	5.1	5.1	4.9	3.9	4.2
166°	3.9	4.1	4.2	4.2	4.9	5.1	5.1	5.1	4.9	4.0	4.4
166.5°	3.8	4.2	4.2	4.1	4.8	5.1	5.1	5.1	4.9	4.5	3.9
167°	3.8	4.4	4.2	4.1	4.7	5.1	5.1	5.2	4.4	4.4	3.4
167.5°	3.8	4.5	4.3	4.1	4.6	5.1	5.1	5.1	3.9	3.7	3.9
168°	3.9	4.5	4.4	4.1	4.5	5.1	5.1	5.1	4.3	3.4	4.3
168.5°	4.0	4.5	4.7	4.1	4.2	5.0	5.0	5.0	4.7	4.3	4.0
169°	4.0	4.5	4.7	4.2	4.1	5.0	5.0	4.9	3.7	4.4	4.0
169.5°	4.0	4.4	4.6	4.3	4.0	4.9	5.0	4.6	3.3	4.3	4.2
170°	4.1	4.3	4.5	4.4	4.0	4.7	4.9	4.0	4.4	4.4	4.2
170.5°	4.1	4.3	4.4	4.5	4.0	4.6	4.9	3.8	4.5	4.4	4.1
171°	4.1	4.2	4.4	4.5	4.0	4.5	4.8	3.8	4.2	4.4	4.1
171.5°	4.0	4.1	4.3	4.4	4.0	4.3	4.7	3.3	4.4	4.3	4.1
172°	4.0	4.1	4.2	4.4	4.1	3.9	4.6	3.5	4.4	4.2	4.0
172.5°	3.9	4.0	4.1	4.3	4.2	3.8	4.4	4.1	4.3	4.1	3.9
173°	3.9	4.0	4.1	4.2	4.2	3.7	4.2	4.1	4.2	4.0	3.8
173.5°	3.9	4.0	4.0	4.1	4.2	3.6	3.6	4.1	4.0	3.9	3.7
174°	3.8	3.9	4.0	4.1	4.1	3.6	3.1	4.0	3.9	3.8	3.7
174.5°	3.8	3.9	3.9	4.0	4.0	3.5	2.9	3.9	3.8	3.7	3.7
175°	3.8	3.8	3.9	3.9	4.0	3.4	3.4	3.8	3.7	3.7	3.6
175.5°	3.8	3.8	3.8	3.9	3.9	3.5	3.8	3.7	3.6	3.6	3.6
176°	3.7	3.8	3.8	3.8	3.8	3.4	3.7	3.6	3.6	3.6	3.6
176.5°	3.7	3.7	3.8	3.7	3.7	3.4	3.6	3.5	3.6	3.6	3.6
177°	3.7	3.6	3.6	3.5	3.4	3.6	3.6	3.6	3.6	3.6	3.5
177.5°	3.5	3.5	3.5	3.5	3.5	1.4	3.5	3.5	3.5	3.5	3.5
178°	3.5	3.5	3.5	3.6	3.6	2.1	3.6	3.5	3.5	3.5	3.5
178.5°	3.6	3.6	3.6	3.5	3.3	2.8	3.3	3.5	3.6	3.5	3.5



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2





TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1868.6	1868.6	1868.6	1868.6
0.5°	1868.3	1868.2	1868.2	1868.2
1°	1867.9	1867.9	1867.9	1868.0
1.5°	1867.5	1867.6	1867.6	1868.0
2°	1865.9	1866.8	1867.5	1867.7
2.5°	1864.3	1864.8	1866.3	1867.0
3°	1863.0	1864.1	1865.5	1865.7
3.5°	1862.2	1863.8	1864.2	1864.4
4°	1860.8	1862.8	1862.8	1863.6
4.5°	1858.2	1860.3	1860.8	1861.6
5°	1856.7	1858.1	1859.6	1860.4
5.5°	1855.4	1856.0	1857.9	1859.2
6°	1852.3	1854.8	1855.8	1857.7
6.5°	1849.6	1851.2	1853.7	1855.7
7°	1848.1	1848.7	1852.2	1853.9
7.5°	1844.7	1846.9	1848.1	1851.3
8°	1841.1	1843.6	1846.6	1849.4
8.5°	1837.3	1840.2	1843.9	1845.9
9°	1834.3	1836.9	1840.5	1843.9
9.5°	1830.7	1833.6	1837.1	1840.5
10°	1826.3	1829.2	1833.9	1836.8
10.5°	1822.6	1826.4	1829.6	1833.4
11°	1818.3	1823.2	1827.0	1829.6
11.5°	1813.9	1818.7	1823.5	1825.6
12°	1809.6	1814.4	1819.7	1821.8
12.5°	1804.4	1809.7	1815.1	1818.2
13°	1799.2	1804.8	1810.7	1813.9
13.5°	1794.3	1800.0	1806.4	1809.1
14°	1789.0	1795.2	1801.1	1804.6
14.5°	1783.3	1790.8	1796.0	1800.0
15°	1777.6	1784.9	1790.9	1794.8
15.5°	1771.4	1778.8	1785.6	1790.1
16°	1765.1	1773.2	1780.8	1784.3
16.5°	1758.8	1767.0	1775.5	1777.9
17°	1752.8	1761.0	1769.1	1772.0
17.5°	1746.1	1754.9	1762.2	1767.0
18°	1739.7	1748.9	1756.2	1761.6
18.5°	1733.0	1742.5	1750.1	1754.7
19°	1725.5	1735.6	1743.7	1748.2
19.5°	1717.3	1728.7	1737.0	1741.6
20°	1709.9	1721.4	1729.8	1735.1
20.5°	1702.8	1713.6	1723.0	1728.5
21°	1695.6	1705.9	1715.3	1721.8



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
22.5°	1670.0	1682.7	1693.3	1698.9
23°	1661.4	1674.6	1685.1	1692.1
23.5°	1652.8	1665.9	1676.7	1683.6
24°	1643.9	1657.7	1668.7	1675.5
24.5°	1634.7	1649.0	1660.5	1667.9
25°	1625.7	1639.9	1652.1	1659.6
25.5°	1615.7	1631.3	1643.0	1650.7
26°	1607.0	1622.0	1634.2	1642.1
26.5°	1597.1	1612.5	1625.2	1633.0
27°	1587.3	1603.2	1615.7	1623.9
27.5°	1576.9	1594.3	1606.4	1615.0
28°	1566.9	1583.7	1597.1	1605.2
28.5°	1556.3	1573.8	1587.4	1595.8
29°	1545.2	1563.6	1577.6	1587.0
29.5°	1535.5	1553.0	1567.4	1577.2
30°	1524.8	1543.2	1557.3	1566.8
30.5°	1513.4	1532.3	1547.2	1557.0
31°	1501.9	1522.0	1536.8	1547.0
31.5°	1491.3	1510.4	1526.1	1536.5
32°	1479.6	1499.5	1515.0	1525.2
32.5°	1468.4	1488.3	1504.2	1514.4
33°	1457.1	1477.6	1493.1	1504.1
33.5°	1445.8	1466.9	1481.9	1492.9
34°	1433.3	1455.0	1470.7	1481.3
34.5°	1421.7	1442.9	1458.9	1469.6
35°	1409.9	1431.6	1447.8	1458.7
35.5°	1397.4	1419.4	1436.1	1447.4
36°	1385.0	1407.7	1424.1	1435.7
36.5°	1372.7	1395.3	1413.2	1423.6
37°	1360.4	1382.9	1401.3	1411.8
37.5°	1348.1	1370.6	1389.5	1400.3
38°	1335.3	1358.4	1376.4	1388.9
38.5°	1321.3	1346.0	1363.4	1375.9
39°	1307.9	1333.1	1350.3	1362.6
39.5°	1294.9	1319.9	1337.6	1349.5
40°	1281.9	1307.1	1325.5	1336.7
40.5°	1268.8	1294.2	1313.0	1324.7
41°	1255.1	1280.8	1299.6	1311.9
41.5°	1241.8	1267.1	1286.8	1298.4
42°	1227.7	1253.8	1273.5	1285.7
42.5°	1214.1	1240.6	1259.8	1272.8
43°	1200.3	1226.7	1246.3	1259.3
43.5°	1186.6	1213.0	1233.2	1245.3



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
45°	1144.5	1172.2	1192.1	1204.4
45.5°	1130.7	1158.0	1177.8	1191.0
46°	1116.4	1144.1	1163.9	1176.7
46.5°	1102.3	1130.0	1149.7	1162.0
47°	1088.6	1115.9	1135.9	1147.8
47.5°	1073.9	1101.9	1121.7	1134.2
48°	1059.8	1086.9	1107.1	1120.4
48.5°	1045.0	1073.0	1093.1	1105.7
49°	1030.8	1058.7	1078.9	1091.9
49.5°	1016.6	1043.9	1064.3	1077.4
50°	1001.7	1029.3	1049.6	1062.8
50.5°	987.3	1015.1	1035.0	1047.9
51°	973.4	1000.2	1020.7	1033.6
51.5°	958.9	986.1	1006.4	1018.8
52°	943.9	971.3	991.1	1004.5
52.5°	929.3	956.5	976.8	989.4
53°	914.7	941.9	961.6	974.7
53.5°	900.5	927.1	947.1	959.9
54°	885.9	912.3	932.2	945.1
54.5°	871.5	897.7	917.4	930.0
55°	857.2	883.1	902.6	914.7
55.5°	841.6	868.7	887.5	900.2
56°	827.1	852.9	872.3	884.9
56.5°	812.9	838.7	857.9	870.1
57°	798.5	823.8	842.8	855.6
57.5°	783.5	809.1	828.1	840.0
58°	769.0	793.6	812.5	824.7
58.5°	754.3	779.0	797.6	810.0
59°	740.4	764.0	782.6	794.6
59.5°	725.3	749.3	767.9	779.6
60°	710.8	734.3	752.8	764.2
60.5°	696.0	719.7	737.6	749.2
61°	682.0	705.0	722.3	734.0
61.5°	667.2	690.0	707.2	719.0
62°	652.8	675.3	692.2	703.7
62.5°	638.4	660.8	677.0	688.5
63°	624.4	645.7	662.0	673.3
63.5°	609.7	630.9	647.1	658.4
64°	595.1	616.2	631.9	642.9
64.5°	580.9	601.4	617.3	627.4
65°	567.1	586.5	602.1	612.0
65.5°	552.5	572.1	586.9	596.4
66°	538.9	557.8	571.9	580.9



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
67.5°	496.5	513.9	527.4	535.7
68°	482.3	499.0	512.2	520.9
68.5°	468.3	484.8	497.0	505.6
69°	454.9	470.0	482.5	490.5
69.5°	441.0	455.6	467.5	475.5
70°	427.1	441.4	453.0	460.4
70.5°	413.3	427.2	438.1	445.4
71°	399.8	412.8	423.6	430.7
71.5°	386.2	398.6	408.7	415.8
72°	372.7	384.6	394.0	401.2
72.5°	359.2	370.7	379.3	386.5
73°	346.0	356.4	365.1	371.4
73.5°	333.2	342.9	350.8	356.4
74°	320.0	328.8	336.5	342.2
74.5°	306.7	315.1	322.2	327.8
75°	293.9	301.1	307.8	313.4
75.5°	281.2	287.9	293.6	298.7
76°	268.9	274.3	280.3	284.6
76.5°	256.2	261.3	266.0	270.6
77°	244.0	248.0	252.5	256.7
77.5°	231.6	235.3	238.8	242.6
78°	219.7	222.1	225.6	229.2
78.5°	208.0	209.8	212.0	215.4
79°	196.3	197.4	199.1	201.9
79.5°	185.0	185.3	186.7	188.7
80°	174.3	173.8	174.5	176.3
80.5°	163.7	162.4	162.4	163.3
81°	153.0	150.9	150.3	150.8
81.5°	142.4	139.4	138.2	138.6
82°	131.7	127.9	126.1	126.6
82.5°	121.8	117.4	114.7	114.3
83°	111.9	107.1	104.0	103.5
83.5°	102.6	96.9	93.2	92.6
84°	93.5	87.1	82.9	82.3
84.5°	85.1	77.9	73.1	72.0
85°	76.8	69.1	63.9	62.6
85.5°	69.2	60.8	54.9	54.4
86°	61.9	53.0	46.7	46.3
86.5°	55.1	45.8	38.9	38.2
87°	48.5	38.9	31.8	30.1
87.5°	42.7	32.8	26.9	23.0
88°	37.3	27.5	21.8	16.7
88.5°	32.4	23.9	16.8	11.2



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
90°	20.7	12.9	4.8	3.6
90.5°	18.7	9.5	3.2	2.0
91°	16.7	7.8	2.3	0.4
91.5°	14.6	6.5	1.9	0.3
92°	12.6	5.7	1.6	0.3
92.5°	10.6	5.1	1.4	0.2
93°	9.7	4.7	1.3	0.2
93.5°	8.9	4.4	1.2	0.2
94°	8.4	4.1	1.2	0.3
94.5°	8.0	3.8	1.2	0.3
95°	7.6	3.7	1.2	0.4
95.5°	7.1	3.6	1.2	0.5
96°	6.8	3.6	1.1	0.6
96.5°	6.4	3.6	1.1	0.6
97°	6.2	3.5	1.1	0.7
97.5°	6.2	3.4	1.0	0.8
98°	6.1	3.2	1.0	0.8
98.5°	6.1	3.1	1.0	0.9
99°	6.1	3.0	1.0	1.0
99.5°	6.0	2.9	1.1	1.1
100°	5.9	2.9	1.2	1.2
100.5°	5.7	2.9	1.3	1.3
101°	5.5	2.9	1.4	1.4
101.5°	5.3	2.8	1.4	1.5
102°	5.1	2.8	1.5	1.6
102.5°	5.0	2.7	1.6	1.7
103°	4.8	2.6	1.7	1.8
103.5°	4.7	2.5	1.7	1.9
104°	4.5	2.4	1.8	1.9
104.5°	4.4	2.3	1.9	2.0
105°	4.4	2.2	1.9	2.0
105.5°	4.3	2.2	2.0	2.0
106°	4.2	2.2	2.1	1.9
106.5°	4.0	2.1	2.5	1.9
107°	3.9	2.0	2.6	1.9
107.5°	3.8	1.9	2.4	1.9
108°	3.6	1.9	2.4	2.0
108.5°	3.5	1.9	2.4	2.0
109°	3.3	1.9	2.4	2.0
109.5°	3.2	1.9	2.3	2.0
110°	3.0	1.9	2.3	2.0
110.5°	2.9	2.0	2.3	2.0
111°	2.9	2.0	2.3	2.0



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

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





TEST NUMBER: P563560

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
180°	3.2	3.2	3.2	3.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







21.5°	1714.7	1718.7	1718.3	1715.2	1708.9	1701.5	1693.6	1687.0	1681.4	1678.6	1677.5
22°	1706.5	1711.0	1710.9	1707.2	1701.1	1693.3	1684.6	1677.8	1672.8	1669.0	1668.2



44°	1231.8	1236.3	1230.5	1217.5	1196.3	1170.4	1144.1	1121.4	1104.8	1096.6	1097.7
44.5°	1218.1	1221.9	1217.2	1203.4	1182.2	1155.8	1129.9	1106.9	1090.2	1082.2	1082.2





66.5°	565.7	571.0	569.6	561.7	548.8	531.0	514.6	500.2	489.7	483.6	481.9
67°	550.5	555.4	554.9	547.7	534.8	518.1	502.5	488.2	477.6	471.9	470.7



89°	6.9	13.6	26.0	40.1	53.4	62.6	70.0	74.3	75.9	75.3	72.5
89.5°	5.2	9.6	21.3	35.0	48.1	58.0	65.3	69.1	70.8	70.3	67.6



111.5°	2.0	2.0	1.7	1.5	2.0	3.1	4.5	5.8	6.8	7.0	6.8
112°	2.0	2.0	1.7	1.5	2.0	2.9	4.3	5.6	6.5	6.7	6.5



134°	2.9	2.9	2.9	3.5	3.6	3.2	3.1	3.2	3.2	3.4	3.5
134.5°	2.9	3.0	2.9	3.5	3.7	3.2	3.2	3.3	3.3	3.4	3.6



156.5°	2.0	3.1	3.6	3.5	3.5	3.5	3.7	4.1	4.3	4.5	4.5
157°	1.9	3.0	3.6	3.5	3.5	3.5	3.7	4.0	4.2	4.4	4.4



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





21.5°	1679.1	1683.5	1687.4	1692.4	1697.1	1699.2	1699.3	1697.1	1691.9	1683.9	1673.9
22°	1669.8	1673.8	1678.9	1684.4	1689.5	1691.2	1691.5	1689.5	1683.6	1675.5	1665.2





44°	1105.7	1122.2	1143.4	1163.4	1181.2	1194.0	1199.0	1196.9	1188.3	1172.2	1148.9
44.5°	1091.5	1108.2	1129.0	1148.6	1167.0	1179.9	1184.3	1183.4	1174.7	1158.1	1134.3



66.5°	485.4	492.8	502.9	513.2	522.2	528.3	526.9	525.9	519.4	510.2	496.7
67°	473.9	480.6	490.2	499.6	507.7	512.6	512.3	510.9	504.7	495.6	482.8



89°	67.7	60.8	52.2	39.8	26.8	14.3	5.8	0.9	4.7	13.3	21.8
89.5°	63.2	56.5	47.3	35.5	22.9	11.5	4.5	0.8	3.5	9.9	19.7



111.5°	5.9	4.7	3.4	2.5	2.6	3.1	3.8	3.5	4.0	3.0	3.5
112°	5.6	4.5	3.3	2.5	2.6	3.3	3.9	3.5	4.1	3.1	3.4



134°	3.8	4.2	4.9	6.0	6.1	4.8	4.3	3.9	4.9	5.2	4.8
134.5°	3.8	4.3	5.0	6.1	6.0	4.8	4.3	4.0	4.9	5.2	4.7



156.5°	4.4	4.2	4.1	4.2	4.2	3.9	3.8	3.3	3.5	3.9	4.3
157°	4.3	4.1	4.0	4.2	4.1	3.9	3.6	3.3	3.4	3.9	4.4



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







21.5°	1663.0	1651.2	1641.7	1633.6	1629.7	1628.8	1631.0	1638.2	1648.3	1661.4	1674.6
22°	1654.2	1641.4	1631.2	1624.2	1619.9	1618.0	1621.3	1627.6	1638.4	1651.6	1665.5



44°	1122.6	1093.8	1068.2	1047.7	1035.2	1032.0	1038.4	1054.6	1079.4	1109.2	1142.5
44.5°	1108.7	1078.9	1053.5	1033.3	1020.3	1016.9	1023.7	1040.3	1065.0	1095.2	1127.6



66.5°	481.9	466.5	453.3	443.3	437.6	437.1	441.4	451.1	465.3	483.6	503.8
67°	468.3	453.7	441.3	431.9	426.5	426.0	429.8	439.6	453.2	470.6	490.4



89°	31.7	40.7	47.8	53.0	56.3	57.7	57.4	55.4	51.5	45.5	37.4
89.5°	28.3	37.0	44.0	49.1	52.4	53.8	53.4	51.3	47.3	41.3	33.3



111.5°	5.5	7.8	9.7	10.9	11.6	11.9	11.6	10.6	8.9	7.1	4.8
112°	5.3	7.6	9.5	10.6	11.3	11.7	11.4	10.3	8.7	6.9	4.7



134°	4.5	3.8	3.4	3.1	3.0	2.9	3.0	3.0	3.1	3.4	3.8
134.5°	4.6	3.9	3.4	3.2	3.0	3.0	3.0	3.1	3.2	3.5	3.9



156.5°	4.7	4.7	4.4	4.3	4.2	4.3	4.3	4.2	4.1	4.0	4.0
157°	4.9	4.7	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.1	4.0



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







21.5°	1687.2	1698.8	1707.9	1714.7
22°	1678.3	1691.5	1701.1	1706.5



44°	1172.8	1199.8	1219.0	1231.8
44.5°	1159.6	1185.6	1205.7	1218.1



66.5°	524.4	543.1	557.0	565.7
67°	510.3	528.5	542.5	550.5



89°	28.1	20.2	11.8	6.9
89.5°	24.1	16.6	7.0	5.2



111.5°	2.8	2.0	2.3	2.0
112°	2.7	2.1	2.3	2.0



134°	3.4	3.3	3.2	2.9
134.5°	3.4	3.3	3.1	2.9



156.5°	3.9	3.1	2.2	2.0
157°	3.9	3.1	2.2	1.9





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



(END OF REPORT)