

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: P563541

Luminaire Tested: **4NWS3C3-UNV-HI-4000K**

Issue Date: 7/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (s22030032e-01)
Test Lab: INNOVATION CENTER
Issue Date: 7/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4NWS3C3-UNV-HI-4000K
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND HI LUMEN SETTING
Light Source: -
Ballast/Driver:

Summary

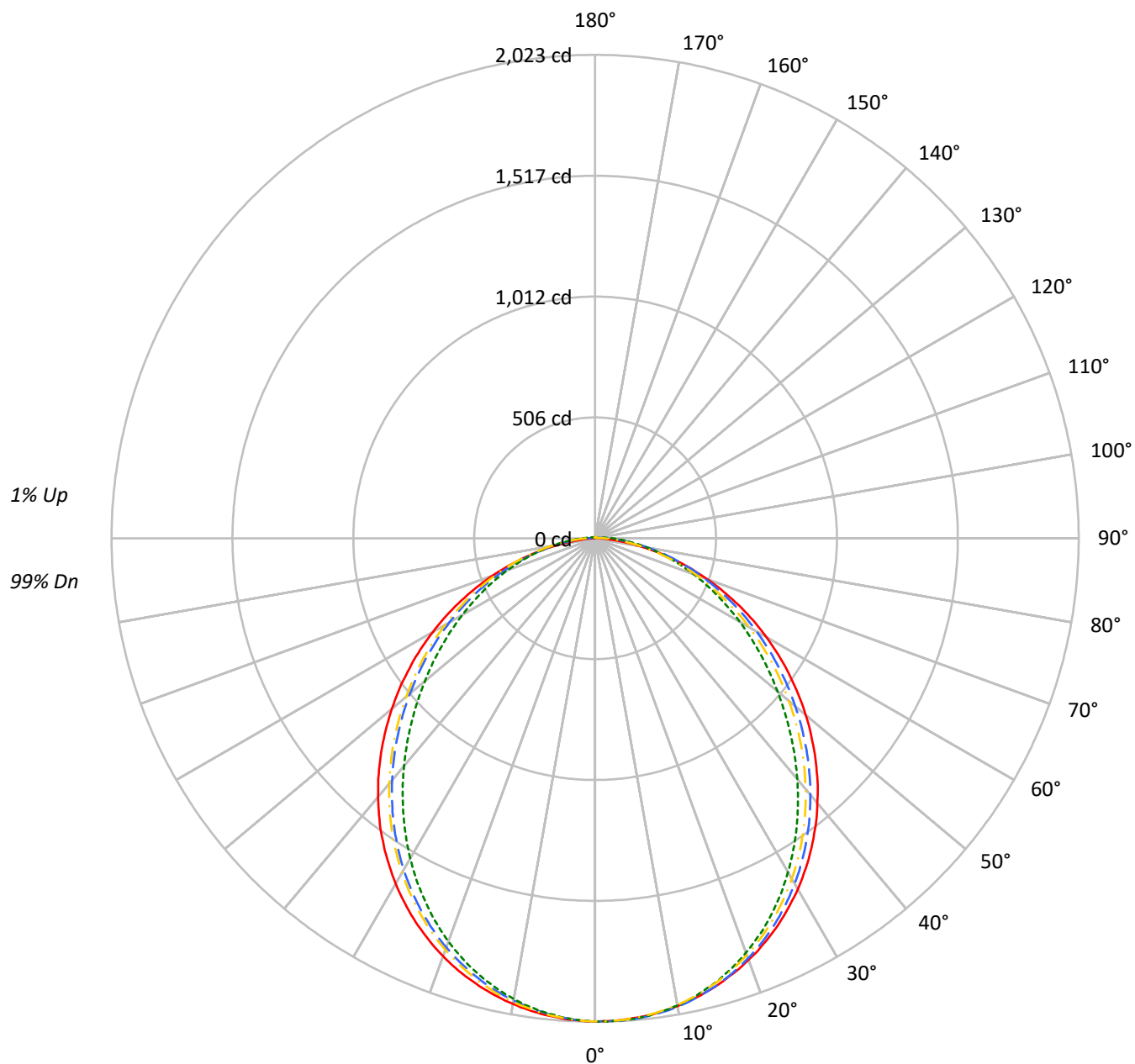
Lumens per Lamp: N/A
Luminaire Lumens: 5272.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 38.9
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					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		101	101	101
1	109	104	100	96		106	102	98	94		97	94	91		93	91	88		89	87	85
2	99	91	84	79		96	89	83	78		85	80	76		82	78	74		79	75	72
3	91	80	72	66		88	79	71	65		75	69	64		73	67	63		70	65	61
4	83	71	63	56		81	70	62	56		67	60	55		65	59	54		63	57	53
5	77	64	55	48		74	63	54	48		60	53	48		58	52	47		56	51	46
6	71	58	49	42		69	57	48	42		55	47	42		53	46	41		51	46	41
7	66	52	44	38		64	52	43	37		50	43	37		48	42	37		47	41	36
8	61	48	39	34		60	47	39	34		46	38	33		44	38	33		43	37	33
9	57	44	36	30		56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28		52	40	33	28		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12291	12291	12291	12291
5°	12262	12106	12240	12017
10°	12223	11863	12170	11701
15°	12154	11552	12072	11314
20°	12054	11173	11947	10871
25°	11929	10733	11781	10357
30°	11759	10219	11573	9796
35°	11545	9644	11322	9178
40°	11281	9019	11018	8527
45°	10975	8363	10660	7854
50°	10613	7695	10240	7186
55°	10187	7056	9755	6532
60°	9704	6417	9194	5890
65°	9119	5769	8518	5238
70°	8377	5120	7657	4565
75°	7391	4444	6491	3844
80°	5972	3715	4861	3084
85°	3822	2969	2452	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	3.6
10°-20°	541.7	10.3
20°-30°	804.5	15.3
30°-40°	937.7	17.8
40°-50°	928.3	17.6
50°-60°	797.2	15.1
60°-70°	583.5	11.1
70°-80°	331.2	6.3
80°-90°	110.3	2.1
90°-100°	20.0	0.4
100°-110°	8.4	0.2
110°-120°	5.0	0.1
120°-130°	3.6	0.1
130°-140°	3.2	0.1
140°-150°	3.0	0.1
150°-160°	2.0	0.0
160°-170°	1.2	0.0
170°-180°	0.4	0.0
0°-30°	1537.0	29.2
0°-40°	2474.7	46.9
0°-60°	4200.2	79.7
0°-90°	5225.3	99.1
90°-120°	33.5	0.6
90°-150°	43.2	0.8
90°-180°	47.0	0.9
0°-180°	5272.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2022	2022	2022	2022	2022	
5°	2013	2017	2010	2002	2013	191
15°	1942	1928	1929	1888	1942	548
25°	1796	1740	1774	1679	1796	827
35°	1578	1470	1548	1399	1578	987
45°	1303	1155	1266	1085	1303	1005
55°	990	844	948	781	990	885
65°	662	562	619	511	662	655
75°	339	322	298	278	339	359
85°	68	134	44	106	68	81
90°	4	71	1	54	4	3
95°	0	34	1	28	0	1
105°	2	13	3	17	2	2
115°	2	6	4	11	2	2
125°	3	3	4	6	3	2
135°	3	4	4	3	3	2
145°	3	5	4	5	3	2
155°	2	5	4	5	2	1
165°	2	4	3	5	2	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1
0.5°	2021.6	2021.6	2021.8	2022.0	2022.2	2022.3	2022.4	2022.5	2022.6	2022.6	2022.5
1°	2021.3	2021.5	2021.9	2022.3	2022.6	2022.7	2022.8	2022.7	2022.1	2021.4	2021.9
1.5°	2021.4	2022.2	2022.3	2021.6	2021.3	2021.5	2022.3	2022.8	2022.1	2023.0	2023.2
2°	2021.0	2021.6	2021.6	2021.6	2022.0	2022.6	2023.1	2023.1	2022.0	2022.1	2022.5
2.5°	2020.3	2020.8	2020.9	2021.0	2021.1	2020.5	2020.7	2020.5	2022.6	2021.3	2020.5
3°	2018.8	2019.3	2020.1	2020.6	2021.1	2021.2	2021.6	2022.0	2021.3	2021.1	2021.1
3.5°	2017.5	2018.5	2019.3	2020.9	2020.2	2020.7	2020.7	2020.2	2020.8	2019.4	2018.9
4°	2016.6	2018.4	2017.9	2019.7	2019.3	2019.6	2019.5	2019.1	2018.1	2020.3	2018.4
4.5°	2014.5	2016.1	2016.7	2017.9	2018.9	2018.7	2017.9	2018.8	2018.1	2018.2	2016.3
5°	2013.2	2014.8	2015.4	2016.1	2017.3	2017.2	2015.4	2016.1	2016.7	2016.6	2014.9
5.5°	2011.9	2013.4	2014.2	2014.5	2015.2	2014.5	2013.9	2013.9	2014.7	2014.3	2012.4
6°	2010.2	2011.6	2012.0	2013.0	2014.0	2013.0	2012.6	2012.0	2012.2	2011.6	2009.6
6.5°	2008.1	2009.8	2010.1	2010.7	2011.9	2011.0	2011.2	2009.8	2009.8	2009.7	2007.5
7°	2006.1	2007.0	2008.7	2008.2	2008.3	2007.2	2008.9	2007.0	2006.8	2006.6	2005.0
7.5°	2003.3	2004.3	2005.8	2006.9	2006.7	2005.7	2005.2	2004.4	2003.6	2002.1	2002.2
8°	2001.2	2001.3	2003.5	2003.8	2003.7	2002.9	2002.2	2001.6	2000.9	1999.8	1999.2
8.5°	1997.4	1997.9	2000.9	2000.4	2000.9	2000.3	1999.1	1998.3	1997.0	1996.3	1994.8
9°	1995.3	1997.1	1997.3	1998.0	1998.1	1997.3	1995.2	1994.8	1993.3	1993.9	1991.0
9.5°	1991.6	1993.4	1994.8	1994.4	1994.8	1993.0	1990.7	1990.7	1989.7	1987.7	1987.0
10°	1987.6	1989.9	1991.1	1991.2	1990.9	1989.5	1987.2	1985.9	1985.2	1985.6	1983.6
10.5°	1983.9	1985.9	1987.7	1987.9	1987.0	1985.5	1982.9	1981.4	1980.6	1980.3	1978.7
11°	1979.8	1981.1	1983.4	1983.6	1982.8	1981.9	1977.9	1977.3	1976.9	1975.6	1974.0
11.5°	1975.5	1978.2	1979.2	1979.7	1978.0	1977.3	1973.5	1973.0	1971.7	1970.7	1969.0
12°	1971.4	1973.8	1975.6	1975.8	1973.8	1972.3	1969.5	1967.9	1965.1	1965.6	1962.8
12.5°	1967.5	1969.4	1971.2	1971.3	1968.7	1967.6	1964.6	1962.5	1960.2	1959.6	1958.0
13°	1962.8	1965.4	1966.8	1966.1	1963.2	1962.8	1958.9	1957.2	1955.0	1952.9	1952.2
13.5°	1957.6	1960.7	1962.1	1961.6	1958.5	1957.4	1952.4	1950.9	1949.0	1946.7	1944.9
14°	1952.7	1955.7	1956.9	1957.0	1953.2	1950.9	1947.3	1944.8	1942.7	1940.1	1939.2
14.5°	1947.8	1950.6	1951.7	1951.7	1947.2	1945.6	1942.1	1938.4	1935.2	1934.5	1931.9
15°	1942.2	1945.4	1946.2	1945.7	1942.2	1939.9	1935.3	1932.0	1929.0	1928.0	1926.3
15.5°	1937.0	1940.1	1940.2	1939.3	1936.8	1933.9	1928.0	1925.9	1922.0	1921.1	1918.6
16°	1930.8	1934.6	1935.1	1933.7	1930.2	1926.9	1921.8	1918.6	1915.5	1913.1	1910.9
16.5°	1923.8	1928.6	1929.6	1928.1	1923.7	1920.2	1914.6	1910.9	1907.9	1904.8	1904.1
17°	1917.4	1922.7	1922.8	1922.0	1917.9	1913.5	1907.7	1903.2	1899.7	1898.1	1897.1
17.5°	1912.1	1916.0	1916.5	1915.1	1911.1	1906.0	1899.2	1895.6	1891.2	1890.4	1888.2
18°	1906.2	1909.2	1910.2	1908.3	1903.7	1898.9	1892.2	1887.7	1883.4	1881.1	1880.2
18.5°	1898.8	1903.6	1904.1	1901.9	1896.8	1891.6	1884.3	1879.2	1875.7	1872.6	1871.5
19°	1891.7	1897.0	1897.5	1894.4	1889.7	1883.6	1876.8	1870.8	1866.5	1863.8	1863.3
19.5°	1884.6	1889.3	1889.6	1887.1	1881.7	1875.2	1867.9	1862.5	1857.2	1855.9	1852.8
20°	1877.6	1881.9	1881.8	1879.5	1874.0	1867.0	1858.8	1853.2	1848.5	1845.1	1844.3
20.5°	1870.4	1874.9	1874.7	1871.9	1866.2	1859.1	1850.1	1843.8	1839.4	1836.0	1834.4
21°	1863.2	1867.6	1867.1	1863.9	1857.4	1850.2	1841.7	1834.5	1830.1	1825.9	1825.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1838.4	1843.1	1843.4	1838.9	1832.1	1823.4	1813.4	1805.5	1799.6	1796.3	1794.1
23°	1831.1	1835.0	1834.6	1830.3	1823.3	1814.3	1803.9	1795.3	1788.9	1786.7	1784.2
23.5°	1821.9	1826.7	1826.2	1821.6	1814.2	1804.3	1794.1	1784.6	1778.1	1774.9	1773.1
24°	1813.1	1818.1	1817.8	1812.3	1804.5	1794.7	1783.0	1773.9	1767.2	1763.9	1762.4
24.5°	1804.8	1809.2	1808.5	1803.5	1794.5	1784.5	1773.9	1763.7	1756.1	1752.4	1750.5
25°	1795.9	1800.6	1799.2	1794.1	1785.3	1774.1	1763.1	1752.7	1744.7	1740.2	1739.4
25.5°	1786.3	1791.0	1790.1	1784.4	1776.2	1763.9	1751.9	1741.2	1733.6	1729.2	1727.3
26°	1776.9	1780.9	1780.5	1773.9	1766.0	1752.9	1740.4	1729.2	1721.0	1716.1	1715.9
26.5°	1767.1	1771.8	1769.7	1764.8	1754.6	1742.1	1728.8	1717.8	1709.3	1704.9	1703.1
27°	1757.3	1762.7	1760.1	1753.9	1743.9	1731.3	1717.6	1706.0	1697.3	1691.7	1691.6
27.5°	1747.6	1752.6	1750.8	1743.2	1733.4	1719.6	1707.1	1693.7	1683.9	1680.1	1678.9
28°	1737.0	1742.6	1740.8	1733.2	1722.5	1708.4	1693.7	1681.9	1671.9	1667.1	1665.5
28.5°	1726.8	1732.1	1730.4	1723.0	1712.0	1697.3	1682.0	1669.6	1658.4	1652.8	1652.2
29°	1717.3	1722.0	1719.9	1711.9	1700.1	1685.3	1670.2	1656.6	1646.9	1641.1	1639.6
29.5°	1706.7	1711.7	1708.8	1701.4	1688.7	1673.5	1658.4	1643.8	1632.2	1627.5	1627.5
30°	1695.5	1699.9	1698.0	1689.4	1677.2	1661.2	1645.0	1630.8	1619.5	1613.6	1614.1
30.5°	1684.9	1689.1	1686.9	1678.9	1665.4	1648.5	1632.4	1617.7	1604.7	1600.3	1599.4
31°	1674.1	1678.8	1675.4	1667.6	1654.1	1636.7	1619.0	1604.1	1592.6	1586.8	1585.3
31.5°	1662.7	1667.7	1664.4	1655.2	1642.1	1624.5	1605.9	1590.2	1578.6	1572.4	1571.0
32°	1650.4	1655.3	1652.4	1642.9	1629.2	1611.0	1593.0	1577.0	1564.5	1557.8	1557.4
32.5°	1638.8	1643.5	1640.7	1630.5	1616.6	1598.0	1579.8	1563.4	1551.5	1543.6	1543.4
33°	1627.5	1632.3	1628.7	1619.3	1604.1	1585.5	1566.6	1549.2	1536.8	1529.6	1529.3
33.5°	1615.5	1620.1	1616.8	1607.3	1591.8	1572.4	1552.9	1535.5	1521.9	1514.7	1514.3
34°	1603.0	1608.5	1604.5	1594.2	1579.1	1558.5	1538.4	1520.8	1507.4	1499.8	1499.7
34.5°	1590.2	1596.0	1592.2	1581.7	1566.2	1545.0	1524.3	1505.5	1492.3	1485.4	1484.6
35°	1578.5	1583.7	1580.2	1569.2	1552.6	1531.5	1510.6	1491.2	1476.9	1470.3	1470.1
35.5°	1566.3	1571.0	1568.0	1556.5	1539.0	1517.4	1496.1	1476.8	1462.1	1455.4	1455.0
36°	1553.5	1559.1	1554.2	1543.6	1526.0	1503.6	1481.9	1462.1	1446.8	1440.4	1439.7
36.5°	1540.4	1545.5	1541.5	1529.7	1512.9	1490.0	1467.5	1446.9	1431.9	1424.3	1425.1
37°	1527.7	1532.2	1528.4	1516.8	1498.9	1476.1	1453.2	1432.4	1415.9	1409.1	1409.5
37.5°	1515.3	1519.0	1515.1	1503.6	1485.0	1461.7	1438.1	1417.1	1401.2	1393.7	1393.9
38°	1502.9	1505.9	1502.4	1489.4	1471.1	1447.1	1423.1	1401.9	1386.1	1377.8	1377.6
38.5°	1488.9	1492.7	1487.8	1475.8	1456.7	1432.6	1408.1	1386.3	1370.7	1363.2	1362.5
39°	1474.4	1479.3	1474.6	1461.9	1442.6	1418.2	1393.5	1371.1	1355.5	1346.9	1346.3
39.5°	1460.3	1466.1	1460.9	1448.2	1428.0	1402.9	1378.5	1355.7	1339.0	1331.6	1331.5
40°	1446.5	1451.9	1447.4	1433.4	1413.7	1387.8	1362.6	1340.4	1323.3	1315.5	1315.6
40.5°	1433.4	1437.8	1433.5	1419.7	1399.1	1373.2	1347.3	1324.5	1307.2	1299.5	1299.0
41°	1419.6	1423.7	1419.3	1405.2	1384.4	1357.9	1332.1	1309.1	1291.5	1283.8	1282.9
41.5°	1405.0	1409.3	1404.5	1391.2	1369.7	1343.0	1316.2	1292.9	1274.8	1267.3	1267.2
42°	1391.3	1395.9	1390.6	1375.9	1355.3	1328.3	1301.6	1277.4	1259.7	1252.2	1251.0
42.5°	1377.3	1381.5	1376.1	1362.1	1339.4	1312.7	1285.9	1261.8	1243.9	1235.7	1235.1
43°	1362.7	1366.9	1361.6	1346.4	1324.5	1297.2	1270.1	1245.7	1227.8	1220.1	1219.3
43.5°	1347.5	1352.5	1346.7	1332.3	1310.2	1282.0	1254.2	1229.8	1211.6	1203.5	1203.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	1303.2	1307.8	1302.0	1286.7	1264.6	1235.3	1207.1	1182.0	1163.5	1155.2	1155.0
45.5°	1288.8	1293.0	1286.9	1271.3	1248.4	1219.7	1191.4	1166.0	1148.0	1138.8	1138.9
46°	1273.3	1277.9	1272.1	1256.3	1233.0	1203.9	1175.1	1150.2	1132.5	1122.3	1123.3
46.5°	1257.5	1262.3	1256.5	1240.8	1217.4	1188.0	1158.9	1134.2	1115.5	1107.3	1107.5
47°	1242.1	1247.4	1242.1	1225.5	1202.1	1172.3	1143.2	1118.0	1099.3	1091.3	1090.9
47.5°	1227.3	1231.8	1226.4	1210.8	1187.0	1156.7	1127.9	1101.5	1083.6	1075.3	1074.8
48°	1212.4	1216.7	1210.8	1195.5	1171.6	1140.8	1112.0	1086.0	1068.1	1058.8	1059.6
48.5°	1196.5	1200.5	1194.8	1179.5	1155.6	1125.2	1096.5	1070.3	1051.6	1043.5	1043.7
49°	1181.6	1186.3	1179.2	1163.1	1139.8	1109.5	1080.3	1054.7	1036.2	1027.3	1027.3
49.5°	1165.8	1170.0	1164.8	1148.1	1123.7	1093.5	1064.8	1038.7	1020.1	1011.6	1012.0
50°	1150.1	1154.9	1148.6	1132.7	1107.8	1077.5	1049.2	1022.9	1005.2	995.6	996.0
50.5°	1133.9	1138.9	1132.9	1117.3	1092.4	1062.0	1033.1	1007.0	988.6	980.2	979.9
51°	1118.4	1123.2	1116.7	1100.5	1076.8	1046.2	1017.5	991.9	974.0	964.4	963.9
51.5°	1102.4	1107.4	1101.0	1085.3	1061.0	1030.4	1001.3	976.0	957.6	950.1	949.2
52°	1087.0	1091.8	1085.7	1069.3	1045.0	1015.1	986.1	960.9	942.7	933.6	933.8
52.5°	1070.6	1075.3	1068.8	1053.3	1029.0	998.8	970.4	945.4	927.7	918.8	918.6
53°	1054.7	1059.6	1053.4	1037.2	1013.0	983.0	954.6	929.9	912.5	903.0	902.7
53.5°	1038.7	1043.1	1037.1	1021.4	997.1	967.5	939.3	914.7	896.1	888.6	887.5
54°	1022.7	1026.9	1021.3	1005.9	981.4	951.6	923.9	899.2	881.6	872.8	873.1
54.5°	1006.4	1011.2	1004.9	989.6	966.1	935.8	907.8	883.8	866.1	857.8	857.8
55°	989.8	995.2	989.4	973.7	949.7	919.9	892.4	868.5	851.5	844.1	842.3
55.5°	974.1	978.8	972.8	958.0	934.4	904.9	877.1	853.0	836.1	828.5	827.2
56°	957.5	962.4	957.1	941.8	918.6	889.8	862.4	838.0	821.6	813.4	812.9
56.5°	941.5	946.5	940.9	925.9	903.0	874.0	846.8	823.3	807.0	798.9	798.3
57°	925.8	930.0	924.5	909.7	886.7	858.5	831.5	808.4	791.8	784.4	783.5
57.5°	909.0	914.4	907.8	894.1	871.5	843.4	816.5	793.4	777.6	769.7	768.8
58°	892.4	897.4	892.7	877.4	854.8	828.0	801.7	779.1	763.0	754.7	754.9
58.5°	876.5	881.3	875.8	862.0	839.6	812.3	786.4	764.1	748.7	740.8	740.2
59°	859.9	865.5	859.7	846.0	824.1	797.1	771.4	749.3	734.8	727.3	726.0
59.5°	843.6	848.4	843.5	830.1	808.5	781.8	756.8	735.5	720.6	713.6	711.1
60°	826.9	832.2	827.7	813.9	792.5	766.7	741.8	721.4	706.6	699.3	697.1
60.5°	810.7	815.4	811.2	798.2	777.9	751.7	727.9	707.5	692.3	685.0	683.1
61°	794.3	798.8	794.9	782.5	762.5	737.0	709.5	693.0	678.1	670.7	669.1
61.5°	778.0	783.3	778.3	765.6	746.3	721.7	694.6	678.4	663.9	656.4	655.1
62°	761.5	766.9	763.0	750.3	730.3	706.2	681.1	664.1	649.6	642.1	641.1
62.5°	745.1	750.0	746.8	734.9	715.5	691.4	667.5	649.7	635.4	628.2	627.1
63°	728.6	733.9	730.3	719.0	700.0	676.6	653.9	635.4	622.0	615.0	613.8
63.5°	712.4	717.1	714.1	702.5	684.5	661.8	640.4	621.7	608.6	601.7	600.7
64°	695.7	700.6	697.3	688.4	669.0	647.0	625.9	608.3	595.3	588.5	587.2
64.5°	678.9	684.0	681.1	683.2	654.0	632.2	612.2	594.6	582.0	575.1	573.7
65°	662.2	667.3	664.9	664.2	639.8	617.4	598.3	581.1	568.7	562.4	560.7
65.5°	645.4	650.7	648.8	645.4	624.3	602.8	584.1	567.7	555.7	549.0	547.5
66°	628.6	634.1	632.6	626.5	608.9	588.6	570.4	554.3	542.8	536.1	534.9



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	579.7	584.9	584.3	577.0	563.8	546.4	529.7	515.6	504.4	498.1	496.5
68°	563.6	568.8	568.1	561.7	549.0	532.3	516.2	502.5	492.1	485.9	484.2
68.5°	547.1	552.6	552.7	545.7	534.2	518.2	503.1	489.5	479.7	473.8	471.1
69°	530.7	536.4	536.8	531.3	519.7	504.1	489.9	476.9	466.6	461.3	459.3
69.5°	514.6	520.8	520.9	516.0	505.5	490.4	476.7	464.1	454.4	448.8	446.9
70°	498.2	504.4	505.3	500.9	491.0	476.9	463.7	451.4	442.3	436.5	434.6
70.5°	482.0	488.2	489.6	485.5	477.0	463.6	450.9	439.2	430.5	424.8	422.4
71°	466.1	471.8	474.0	470.9	462.4	450.0	438.0	426.9	418.6	413.1	410.8
71.5°	449.9	456.2	458.0	455.6	448.3	436.5	425.4	414.9	406.3	401.2	399.1
72°	434.1	440.2	442.9	440.5	434.1	423.2	412.5	402.6	394.4	389.2	387.1
72.5°	418.2	424.2	427.6	425.9	419.8	409.7	400.1	390.3	382.7	378.1	375.4
73°	401.9	408.5	412.5	411.6	406.3	396.5	387.4	378.4	371.2	366.3	363.6
73.5°	385.7	392.9	396.9	396.9	392.3	384.3	375.1	366.6	359.6	355.0	352.4
74°	370.3	376.8	381.8	382.6	378.6	371.1	363.0	354.9	348.5	343.6	341.0
74.5°	354.7	361.7	366.7	367.9	365.1	358.0	351.0	343.3	337.2	332.7	330.3
75°	339.1	346.2	351.7	353.6	351.6	345.4	338.9	332.1	326.0	321.6	318.9
75.5°	323.3	331.1	336.7	339.4	338.3	332.9	327.0	320.5	314.7	310.8	308.1
76°	308.0	315.5	322.0	325.6	324.6	320.2	315.4	309.4	304.0	300.0	297.0
76.5°	292.8	300.7	307.4	311.4	311.7	308.1	303.4	298.1	293.3	289.5	286.4
77°	277.8	285.3	293.0	297.6	298.9	296.0	292.1	287.0	282.5	278.6	275.6
77.5°	262.5	270.7	278.7	283.9	286.0	284.1	280.7	276.3	271.8	268.4	265.3
78°	248.0	256.0	264.2	270.7	273.2	272.3	269.6	265.6	261.8	258.3	255.2
78.5°	233.1	241.7	250.2	257.3	260.7	260.5	258.3	255.0	251.7	248.1	245.1
79°	218.5	227.4	236.6	244.2	248.3	248.7	247.5	244.6	241.4	238.1	235.0
79.5°	204.2	212.8	222.9	231.2	236.2	237.4	236.9	234.4	231.6	228.6	225.3
80°	190.7	199.0	209.2	218.5	224.3	226.2	226.1	224.3	221.8	219.0	215.7
80.5°	176.8	185.5	196.2	205.9	212.4	215.2	215.7	214.4	212.4	209.3	206.3
81°	163.2	172.2	183.3	193.6	200.9	204.4	205.8	204.8	203.0	200.2	197.1
81.5°	150.0	159.0	170.7	181.4	189.6	193.6	195.8	195.5	194.0	191.4	188.1
82°	137.0	146.0	158.0	169.7	178.3	183.4	186.0	186.2	185.0	182.4	179.2
82.5°	123.7	133.5	146.2	158.1	167.4	173.4	176.4	177.1	176.1	173.6	170.4
83°	112.0	121.4	134.1	146.9	156.8	163.5	167.2	168.1	167.4	165.5	162.1
83.5°	100.2	109.7	122.6	136.0	146.7	153.7	158.2	159.6	159.4	157.1	153.9
84°	89.0	98.4	111.5	125.3	136.7	144.5	149.3	151.3	151.0	149.1	145.9
84.5°	77.9	87.3	101.0	115.0	127.0	135.4	140.5	143.0	143.1	141.3	138.2
85°	67.8	76.9	90.6	105.2	117.8	126.6	132.2	135.0	135.5	133.8	130.6
85.5°	58.9	67.5	81.0	95.9	108.7	118.2	124.2	127.3	127.8	126.3	123.2
86°	50.1	58.9	71.6	86.9	100.3	110.1	116.5	119.8	120.5	119.2	116.0
86.5°	41.3	50.3	64.0	78.3	92.0	102.3	108.9	112.7	113.6	112.3	109.2
87°	32.5	41.8	56.5	69.6	84.2	94.6	101.7	105.8	106.8	105.9	102.6
87.5°	24.9	33.2	48.9	63.1	76.6	87.5	94.8	99.0	100.3	99.3	96.3
88°	18.1	26.2	41.4	56.5	69.3	80.6	88.2	92.5	94.1	93.1	90.1
88.5°	12.1	20.0	33.9	50.0	63.6	73.9	81.7	86.4	88.0	87.1	84.2



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	3.9	7.1	18.7	32.8	46.3	57.6	65.8	69.7	71.6	70.8	68.8
90.5°	2.1	5.7	15.1	28.3	41.4	52.5	61.0	65.3	67.3	66.6	64.4
91°	0.4	4.5	12.2	24.3	36.9	47.6	56.1	60.9	62.9	62.4	60.0
91.5°	0.3	3.2	9.9	21.0	32.8	43.1	51.2	56.4	58.6	58.2	55.6
92°	0.3	2.0	8.1	18.0	29.1	39.1	46.8	51.9	54.2	54.0	51.3
92.5°	0.2	1.5	7.1	15.6	25.9	35.5	42.9	47.7	50.0	49.7	47.5
93°	0.2	1.2	6.3	13.4	23.0	32.1	39.3	44.1	46.3	46.2	43.9
93.5°	0.3	1.0	5.4	11.8	20.5	29.1	36.1	40.7	42.9	42.8	40.8
94°	0.3	0.9	4.6	10.4	18.3	26.4	33.1	37.5	39.7	39.7	37.8
94.5°	0.4	0.7	4.1	9.3	16.5	23.9	30.3	34.6	36.8	36.8	35.0
95°	0.5	0.6	3.8	8.5	14.9	21.8	27.7	32.0	34.1	34.2	32.4
95.5°	0.5	0.6	3.4	7.9	13.6	19.9	25.5	29.5	31.6	31.7	30.1
96°	0.6	0.7	3.0	7.4	12.5	18.3	23.5	27.3	29.3	29.4	27.9
96.5°	0.7	0.8	2.7	6.9	11.7	16.9	21.8	25.4	27.3	27.5	26.0
97°	0.8	0.8	2.5	6.4	11.0	15.7	20.2	23.6	25.5	25.7	24.3
97.5°	0.8	0.9	2.3	5.9	10.4	14.7	18.9	22.0	23.8	24.1	22.8
98°	0.9	0.9	2.1	5.5	9.9	13.9	17.7	20.7	22.4	22.6	21.5
98.5°	1.0	0.9	1.9	5.2	9.3	13.3	16.8	19.5	21.1	21.3	20.4
99°	1.0	1.0	1.7	4.8	8.8	12.7	15.9	18.5	20.0	20.2	19.3
99.5°	1.2	1.1	1.6	4.5	8.3	12.1	15.2	17.6	19.0	19.3	18.5
100°	1.3	1.2	1.5	4.2	7.9	11.5	14.6	16.9	18.2	18.5	17.7
100.5°	1.4	1.3	1.5	3.9	7.5	11.0	14.0	16.3	17.5	17.8	17.1
101°	1.5	1.4	1.5	3.6	7.1	10.5	13.4	15.7	16.9	17.1	16.5
101.5°	1.7	1.4	1.5	3.4	6.7	10.0	12.9	15.1	16.3	16.6	15.9
102°	1.8	1.5	1.5	3.1	6.3	9.5	12.3	14.5	15.7	16.0	15.3
102.5°	1.9	1.6	1.5	2.9	5.9	9.0	11.8	13.9	15.1	15.4	14.8
103°	2.0	1.6	1.5	2.7	5.5	8.6	11.2	13.3	14.5	14.8	14.3
103.5°	2.0	1.7	1.4	2.5	5.2	8.1	10.8	12.8	14.0	14.3	13.7
104°	2.1	1.8	1.4	2.4	4.8	7.7	10.3	12.3	13.4	13.7	13.2
104.5°	2.1	1.9	1.4	2.2	4.5	7.4	9.8	11.8	12.9	13.2	12.7
105°	2.2	2.1	1.4	2.1	4.2	7.0	9.4	11.3	12.5	12.7	12.2
105.5°	2.1	2.3	1.4	2.0	4.0	6.6	9.0	10.8	12.0	12.3	11.7
106°	2.1	2.3	1.4	1.9	3.7	6.2	8.5	10.3	11.5	11.8	11.3
106.5°	2.1	2.1	1.4	1.9	3.5	5.9	8.2	9.9	11.1	11.4	10.9
107°	2.1	2.0	1.5	1.8	3.3	5.6	7.8	9.5	10.7	11.0	10.5
107.5°	2.1	2.0	1.5	1.8	3.1	5.3	7.4	9.1	10.2	10.6	10.1
108°	2.1	2.1	1.5	1.7	2.9	5.0	7.1	8.7	9.8	10.1	9.7
108.5°	2.1	2.1	1.6	1.7	2.8	4.7	6.7	8.3	9.4	9.7	9.3
109°	2.2	2.2	1.6	1.7	2.6	4.4	6.3	7.9	9.1	9.4	9.0
109.5°	2.2	2.2	1.6	1.6	2.5	4.2	6.0	7.6	8.7	9.0	8.6
110°	2.2	2.2	1.7	1.6	2.4	4.0	5.7	7.3	8.3	8.6	8.3
110.5°	2.2	2.2	1.7	1.6	2.3	3.8	5.4	6.9	8.0	8.3	8.0
111°	2.2	2.2	1.8	1.6	2.3	3.5	5.1	6.6	7.7	7.9	7.6



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	2.2	2.2	1.9	1.7	2.1	3.0	4.4	5.7	6.7	6.9	6.7
113°	2.3	2.2	2.0	1.7	2.1	2.9	4.1	5.4	6.3	6.6	6.4
113.5°	2.3	2.2	2.0	1.8	2.0	2.8	3.9	5.2	6.0	6.3	6.1
114°	2.3	2.2	2.1	1.8	2.0	2.7	3.7	4.9	5.8	6.1	5.8
114.5°	2.4	2.2	2.1	1.8	1.9	2.6	3.5	4.7	5.5	5.8	5.6
115°	2.4	2.3	2.2	1.9	1.9	2.6	3.4	4.4	5.3	5.5	5.4
115.5°	2.4	2.3	2.3	1.9	1.8	2.5	3.3	4.2	5.0	5.3	5.2
116°	2.4	2.4	2.3	1.9	1.9	2.4	3.1	4.0	4.8	5.1	4.9
116.5°	2.4	2.4	2.5	2.0	1.9	2.4	3.0	3.9	4.6	4.9	4.7
117°	2.4	2.5	2.6	2.0	1.9	2.4	3.0	3.7	4.4	4.7	4.6
117.5°	2.4	2.5	2.8	2.0	1.9	2.3	2.9	3.6	4.2	4.5	4.4
118°	2.4	2.6	2.9	2.1	2.0	2.2	2.8	3.5	4.0	4.3	4.3
118.5°	2.4	2.6	2.9	2.1	2.0	2.1	2.7	3.4	3.9	4.2	4.1
119°	2.5	2.6	2.9	2.2	2.0	2.1	2.7	3.3	3.8	4.0	4.0
119.5°	2.5	2.7	2.8	2.2	2.1	2.1	2.7	3.2	3.7	3.9	3.9
120°	2.5	2.7	2.8	2.3	2.1	2.1	2.6	3.1	3.5	3.8	3.8
120.5°	2.5	2.7	2.7	2.3	2.1	2.1	2.5	3.0	3.5	3.7	3.7
121°	2.6	2.7	2.7	2.4	2.2	2.1	2.4	2.9	3.4	3.6	3.6
121.5°	2.6	2.7	2.8	2.4	2.2	2.2	2.3	2.8	3.3	3.5	3.6
122°	2.6	2.8	2.8	2.5	2.3	2.2	2.3	2.8	3.2	3.5	3.5
122.5°	2.6	2.8	2.9	2.5	2.3	2.2	2.2	2.7	3.1	3.4	3.4
123°	2.7	2.8	2.9	2.6	2.4	2.3	2.2	2.6	3.1	3.3	3.4
123.5°	2.7	2.8	3.0	2.6	2.4	2.3	2.3	2.5	3.0	3.3	3.3
124°	2.7	2.9	3.0	2.7	2.5	2.4	2.3	2.4	2.9	3.2	3.2
124.5°	2.7	2.9	3.0	2.8	2.5	2.4	2.3	2.4	2.8	3.1	3.1
125°	2.7	2.9	3.0	2.8	2.5	2.5	2.3	2.4	2.8	3.0	3.1
125.5°	2.8	2.9	3.0	2.9	2.6	2.5	2.4	2.4	2.7	3.0	3.1
126°	2.8	2.9	3.0	3.0	2.6	2.5	2.4	2.5	2.7	3.0	3.1
126.5°	2.8	2.9	3.0	3.1	2.7	2.6	2.5	2.5	2.7	3.0	3.1
127°	2.9	2.9	3.0	3.2	2.7	2.6	2.5	2.6	2.8	3.0	3.1
127.5°	2.9	2.9	3.0	3.4	2.8	2.6	2.6	2.6	2.8	3.0	3.1
128°	2.9	2.9	3.0	3.4	2.8	2.7	2.6	2.7	2.9	3.1	3.2
128.5°	2.9	2.9	3.0	3.5	2.9	2.7	2.7	2.7	2.9	3.1	3.2
129°	3.0	3.0	3.0	3.5	2.9	2.8	2.7	2.8	3.0	3.2	3.3
129.5°	3.0	3.0	3.0	3.5	3.0	2.8	2.8	2.9	3.0	3.2	3.3
130°	3.0	3.0	3.0	3.5	3.1	2.9	2.8	2.9	3.1	3.3	3.4
130.5°	3.0	3.0	3.0	3.5	3.1	2.9	2.9	3.0	3.1	3.3	3.4
131°	3.0	3.0	3.0	3.5	3.2	3.0	3.0	3.1	3.2	3.4	3.5
131.5°	3.0	3.0	3.0	3.5	3.3	3.1	3.0	3.1	3.3	3.4	3.5
132°	3.1	3.1	3.0	3.6	3.3	3.1	3.1	3.2	3.3	3.4	3.6
132.5°	3.1	3.1	3.1	3.7	3.5	3.2	3.2	3.3	3.4	3.5	3.6
133°	3.1	3.1	3.1	3.7	3.6	3.3	3.2	3.3	3.4	3.5	3.7
133.5°	3.1	3.2	3.1	3.8	3.7	3.4	3.3	3.4	3.5	3.6	3.7



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	3.2	3.2	3.2	3.9	4.1	3.6	3.5	3.6	3.6	3.7	3.9
135.5°	3.1	3.3	3.3	3.9	4.1	3.7	3.6	3.7	3.7	3.8	4.0
136°	3.1	3.3	3.3	3.8	4.1	3.7	3.7	3.7	3.8	3.9	4.0
136.5°	3.1	3.2	3.3	3.8	4.1	3.8	3.8	3.8	3.8	3.9	4.1
137°	3.1	3.2	3.4	3.8	4.1	3.9	3.8	3.8	3.9	4.0	4.2
137.5°	3.1	3.3	3.4	3.7	4.2	4.1	3.9	3.9	3.9	4.0	4.2
138°	3.1	3.4	3.5	3.7	4.2	4.2	4.0	4.0	4.0	4.1	4.3
138.5°	3.1	3.4	3.5	3.6	4.2	4.4	4.0	4.0	4.0	4.1	4.4
139°	3.2	3.5	3.5	3.6	4.2	4.5	4.1	4.1	4.1	4.2	4.4
139.5°	3.2	3.5	3.5	3.6	4.3	4.6	4.1	4.1	4.1	4.3	4.5
140°	3.2	3.6	3.5	3.6	4.3	4.6	4.2	4.2	4.2	4.3	4.6
140.5°	3.2	3.6	3.6	3.6	4.4	4.6	4.3	4.2	4.3	4.4	4.6
141°	3.2	3.6	3.6	3.6	4.4	4.7	4.4	4.3	4.3	4.5	4.7
141.5°	3.2	3.6	3.6	3.5	4.4	4.7	4.5	4.3	4.4	4.5	4.8
142°	3.2	3.7	3.6	3.5	4.4	4.8	4.7	4.4	4.4	4.6	4.9
142.5°	3.2	3.7	3.6	3.5	4.3	4.8	4.8	4.5	4.5	4.7	4.9
143°	3.2	3.7	3.7	3.5	4.3	4.8	4.9	4.6	4.6	4.7	5.1
143.5°	3.2	3.7	3.7	3.5	4.2	4.7	5.0	4.7	4.7	4.8	5.2
144°	3.2	3.7	3.7	3.5	4.2	4.7	5.0	4.8	4.8	4.9	5.2
144.5°	3.2	3.7	3.7	3.5	4.1	4.7	5.0	5.0	4.8	5.0	5.3
145°	3.2	3.7	3.7	3.5	4.1	4.7	5.0	5.1	4.9	5.1	5.4
145.5°	3.2	3.7	3.7	3.5	4.1	4.7	5.0	5.3	5.1	5.2	5.5
146°	3.2	3.7	3.8	3.5	4.0	4.7	5.0	5.3	5.3	5.3	5.7
146.5°	3.2	3.7	3.8	3.5	4.0	4.7	5.0	5.3	5.5	5.5	5.8
147°	3.2	3.8	3.8	3.5	3.9	4.7	4.9	5.3	5.6	5.6	6.0
147.5°	3.2	3.8	3.8	3.5	3.9	4.6	4.9	5.3	5.6	5.7	6.0
148°	3.2	3.8	3.8	3.5	3.8	4.6	4.9	5.3	5.5	5.7	6.0
148.5°	3.2	3.7	3.8	3.5	3.8	4.6	4.9	5.3	5.5	5.8	6.0
149°	3.1	3.7	3.8	3.5	3.7	4.5	4.9	5.2	5.5	5.7	6.0
149.5°	3.1	3.7	3.8	3.5	3.7	4.5	4.9	5.2	5.5	5.8	6.0
150°	3.1	3.7	3.8	3.5	3.7	4.4	4.9	5.2	5.5	5.7	5.9
150.5°	3.1	3.7	3.8	3.5	3.7	4.4	4.9	5.2	5.5	5.7	5.8
151°	3.0	3.7	3.8	3.6	3.6	4.3	4.8	5.2	5.4	5.6	5.8
151.5°	2.8	3.6	3.8	3.6	3.6	4.2	4.8	5.2	5.4	5.5	5.8
152°	2.8	3.5	3.8	3.6	3.6	4.1	4.7	5.2	5.4	5.5	5.8
152.5°	2.9	3.5	3.8	3.6	3.6	4.1	4.7	5.1	5.4	5.5	5.8
153°	2.8	3.5	3.8	3.6	3.6	4.0	4.6	5.0	5.3	5.5	5.7
153.5°	2.6	3.4	3.8	3.7	3.6	3.9	4.5	5.0	5.3	5.5	5.6
154°	2.4	3.3	3.8	3.7	3.6	3.9	4.4	4.9	5.2	5.4	5.5
154.5°	2.3	3.3	3.9	3.7	3.6	3.9	4.3	4.8	5.1	5.3	5.3
155°	2.3	3.3	3.9	3.7	3.7	3.8	4.2	4.7	5.0	5.2	5.2
155.5°	2.4	3.3	3.9	3.8	3.7	3.8	4.2	4.6	4.9	5.1	5.1
156°	2.3	3.3	3.9	3.8	3.7	3.8	4.1	4.5	4.8	5.0	5.0



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	2.1	3.3	3.9	3.8	3.8	3.8	3.9	4.2	4.5	4.6	4.7
158°	2.1	3.3	3.9	3.8	3.9	3.9	3.9	4.1	4.4	4.5	4.6
158.5°	2.1	3.3	3.9	3.9	3.9	3.9	3.9	4.1	4.3	4.4	4.5
159°	2.1	3.3	3.9	3.9	3.9	3.9	3.9	4.0	4.2	4.3	4.4
159.5°	2.1	3.2	3.8	3.9	4.0	4.0	3.9	4.0	4.1	4.3	4.3
160°	2.1	3.2	3.8	3.9	4.0	4.0	3.9	4.0	4.1	4.2	4.3
160.5°	2.1	3.2	3.7	3.9	4.0	4.0	4.0	4.0	4.1	4.1	4.2
161°	2.2	3.2	3.7	3.9	4.1	4.1	4.0	4.0	4.1	4.1	4.2
161.5°	2.2	3.1	3.7	3.9	4.1	4.1	4.0	4.0	4.0	4.1	4.2
162°	2.2	3.1	3.7	3.9	4.1	4.1	4.1	4.0	4.0	4.1	4.2
162.5°	2.2	3.0	3.7	3.9	4.1	4.2	4.1	4.1	4.1	4.1	4.2
163°	2.2	3.0	3.7	3.9	4.1	4.2	4.1	4.1	4.1	4.1	4.2
163.5°	2.2	2.9	3.7	3.9	4.1	4.2	4.2	4.1	4.1	4.1	4.2
164°	2.2	2.8	3.6	3.9	4.2	4.2	4.2	4.2	4.1	4.1	4.2
164.5°	2.2	2.7	3.7	3.9	4.2	4.3	4.2	4.2	4.2	4.2	4.2
165°	2.2	2.6	3.6	3.9	4.2	4.3	4.3	4.2	4.2	4.2	4.3
165.5°	2.2	2.7	3.6	3.8	4.2	4.3	4.3	4.3	4.2	4.2	4.3
166°	2.3	2.7	3.6	3.7	4.2	4.3	4.3	4.3	4.3	4.3	4.3
166.5°	2.3	2.7	3.7	3.7	4.2	4.3	4.3	4.3	4.3	4.3	4.3
167°	2.3	2.7	3.5	3.8	4.1	4.3	4.3	4.4	4.3	4.3	4.4
167.5°	2.3	2.8	3.3	3.7	4.0	4.3	4.4	4.4	4.4	4.4	4.4
168°	2.3	2.8	3.4	3.5	4.1	4.3	4.4	4.4	4.4	4.4	4.4
168.5°	2.3	2.7	3.6	3.4	4.1	4.3	4.4	4.4	4.5	4.4	4.5
169°	2.4	2.5	3.4	3.6	4.0	4.3	4.4	4.5	4.5	4.5	4.5
169.5°	2.4	2.7	3.0	3.7	3.6	4.2	4.4	4.5	4.5	4.5	4.5
170°	2.5	3.0	3.1	3.6	3.7	4.1	4.4	4.5	4.5	4.5	4.5
170.5°	2.8	2.9	3.4	3.4	4.0	4.2	4.4	4.5	4.5	4.5	4.5
171°	3.2	3.0	3.4	3.5	3.9	4.0	4.3	4.4	4.5	4.5	4.5
171.5°	3.2	3.3	3.2	3.5	3.4	3.6	4.2	4.4	4.4	4.4	4.4
172°	3.2	3.3	3.3	3.4	3.5	3.5	4.1	4.4	4.4	4.4	4.4
172.5°	3.4	3.4	3.4	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
173°	3.4	3.4	3.5	3.5	3.4	3.8	4.0	4.2	4.3	4.3	4.3
173.5°	3.4	3.4	3.5	3.4	3.5	3.5	4.0	4.1	4.2	4.2	4.2
174°	3.5	3.5	3.6	3.3	3.6	3.7	3.8	4.1	4.1	4.1	4.2
174.5°	3.6	3.6	3.7	3.5	3.3	3.6	3.6	4.0	4.1	4.1	4.1
175°	3.7	3.7	3.8	3.6	3.3	3.5	3.8	4.0	4.1	4.1	4.1
175.5°	3.8	3.8	3.8	3.6	3.4	3.4	3.7	4.0	4.1	4.1	4.0
176°	3.8	3.8	3.8	3.6	3.3	3.2	3.5	3.9	4.1	4.1	4.0
176.5°	3.8	3.8	3.8	3.8	3.5	3.3	3.5	3.8	4.0	4.1	4.0
177°	3.8	3.8	3.9	3.8	3.5	3.3	3.5	3.8	3.9	3.9	3.9
177.5°	3.8	3.8	3.8	3.7	3.4	3.3	3.4	3.7	3.8	3.9	3.8
178°	3.8	3.8	3.8	3.7	3.5	3.3	3.3	3.5	3.7	3.9	3.7
178.5°	3.8	3.8	3.8	3.6	3.3	3.1	3.1	3.4	3.7	3.8	3.7



TEST NUMBER: P563541
CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1
0.5°	2022.5	2022.4	2022.3	2022.1	2021.9	2021.6	2021.4	2021.3	2021.2	2021.2	2021.3
1°	2022.5	2022.7	2023.0	2023.2	2023.0	2022.5	2022.0	2021.5	2021.0	2020.8	2020.7
1.5°	2023.1	2022.9	2022.3	2021.4	2020.7	2020.7	2020.7	2020.5	2020.0	2019.7	2019.6
2°	2023.0	2021.4	2019.7	2019.8	2019.7	2019.0	2018.7	2018.8	2018.4	2018.2	2018.2
2.5°	2021.4	2021.1	2021.3	2020.1	2020.0	2019.5	2018.3	2018.1	2017.7	2017.4	2016.9
3°	2020.5	2020.1	2019.7	2018.8	2018.8	2018.4	2018.0	2017.3	2015.7	2014.3	2014.7
3.5°	2019.0	2018.5	2018.4	2018.5	2017.6	2016.1	2015.8	2016.1	2013.7	2012.8	2012.5
4°	2018.5	2017.6	2016.8	2016.8	2016.5	2015.5	2014.0	2014.5	2013.1	2011.5	2010.2
4.5°	2014.9	2016.0	2014.0	2015.2	2015.3	2013.9	2012.3	2011.3	2010.6	2009.3	2008.2
5°	2014.0	2013.9	2013.6	2012.6	2013.0	2012.3	2010.8	2009.6	2008.9	2007.6	2005.1
5.5°	2012.8	2012.0	2011.6	2010.5	2010.9	2009.5	2009.2	2007.8	2007.0	2005.5	2002.7
6°	2010.5	2009.6	2008.7	2008.3	2008.0	2007.3	2006.8	2005.3	2004.1	2003.0	1999.5
6.5°	2007.7	2006.9	2006.4	2005.7	2005.1	2005.9	2004.6	2002.7	2000.5	2000.3	1996.7
7°	2005.2	2003.9	2004.5	2003.2	2002.8	2003.0	2002.1	1999.5	1997.3	1996.5	1994.0
7.5°	2001.8	2001.0	2001.1	2001.2	1999.6	1999.7	1998.5	1997.3	1994.1	1993.5	1991.3
8°	1998.6	1998.2	1997.6	1997.8	1997.2	1997.2	1994.6	1993.3	1991.1	1990.3	1987.0
8.5°	1994.6	1994.7	1994.0	1993.7	1994.3	1993.1	1992.8	1990.1	1988.8	1986.3	1983.5
9°	1990.6	1991.0	1990.5	1990.4	1991.0	1989.4	1988.8	1987.3	1984.2	1982.3	1979.6
9.5°	1987.2	1987.4	1986.3	1986.5	1986.6	1986.3	1984.4	1982.8	1979.6	1978.0	1974.7
10°	1982.8	1983.0	1982.1	1983.2	1982.7	1980.9	1981.1	1979.0	1975.9	1973.9	1970.3
10.5°	1978.3	1978.8	1977.0	1979.1	1978.4	1977.4	1977.4	1975.3	1972.4	1968.8	1966.1
11°	1972.8	1974.5	1973.6	1975.2	1974.4	1973.8	1973.2	1971.0	1967.5	1963.8	1960.8
11.5°	1967.7	1969.5	1968.4	1969.9	1969.8	1969.9	1968.3	1965.8	1962.2	1959.6	1955.5
12°	1962.7	1963.8	1963.5	1964.4	1965.6	1964.5	1963.6	1961.1	1958.0	1955.1	1950.3
12.5°	1957.4	1958.9	1958.7	1959.0	1960.7	1959.6	1958.5	1956.5	1953.5	1949.0	1945.6
13°	1951.9	1953.2	1952.6	1953.3	1954.8	1954.2	1954.0	1951.7	1948.9	1943.5	1940.2
13.5°	1945.5	1946.3	1946.5	1948.2	1949.2	1948.8	1948.6	1946.3	1942.4	1937.7	1933.3
14°	1938.8	1940.3	1941.3	1942.9	1943.8	1943.5	1943.1	1941.5	1936.6	1932.1	1927.2
14.5°	1932.2	1933.9	1935.2	1936.6	1938.2	1938.1	1937.5	1935.4	1931.8	1925.8	1920.9
15°	1925.4	1928.0	1928.6	1930.5	1932.9	1931.9	1931.9	1929.0	1926.0	1918.8	1914.4
15.5°	1918.4	1921.8	1922.6	1924.5	1926.9	1925.5	1926.2	1922.9	1919.2	1912.9	1907.9
16°	1910.8	1914.1	1915.6	1917.6	1919.9	1919.7	1919.7	1917.2	1912.6	1907.2	1901.5
16.5°	1903.6	1907.1	1908.6	1910.7	1912.9	1913.4	1912.8	1911.3	1906.8	1900.6	1894.1
17°	1895.8	1899.1	1901.0	1903.5	1906.6	1906.5	1906.3	1904.7	1899.9	1893.3	1886.1
17.5°	1887.8	1891.9	1893.9	1896.3	1900.1	1900.2	1900.9	1897.6	1892.8	1886.3	1878.9
18°	1880.1	1883.1	1886.5	1889.9	1892.6	1892.7	1893.2	1890.1	1885.2	1879.0	1871.0
18.5°	1871.4	1874.3	1879.0	1882.0	1885.3	1885.1	1885.1	1883.4	1878.1	1870.8	1862.6
19°	1862.3	1865.7	1870.3	1873.3	1877.8	1878.2	1878.3	1876.1	1871.3	1862.9	1855.0
19.5°	1853.2	1857.2	1861.8	1865.9	1869.6	1870.2	1870.7	1868.4	1863.4	1855.1	1846.4
20°	1845.1	1849.3	1853.6	1857.8	1861.4	1862.9	1862.9	1860.9	1855.6	1847.1	1838.0
20.5°	1835.8	1839.9	1845.2	1848.7	1853.8	1854.6	1854.7	1853.3	1847.7	1838.9	1829.3
21°	1826.0	1831.5	1835.6	1840.1	1844.9	1847.0	1847.0	1844.8	1839.4	1830.0	1820.6



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1795.9	1800.9	1807.3	1813.8	1818.8	1821.6	1821.5	1818.7	1813.4	1803.0	1793.5
23°	1785.5	1791.0	1797.9	1804.1	1809.6	1812.3	1812.5	1809.6	1804.5	1794.5	1783.1
23.5°	1774.8	1780.6	1787.7	1793.8	1800.9	1803.8	1804.0	1801.2	1795.2	1785.7	1773.6
24°	1763.6	1770.7	1777.1	1784.3	1790.8	1794.1	1794.6	1792.2	1786.2	1776.0	1763.8
24.5°	1752.6	1759.5	1767.0	1774.1	1780.9	1784.8	1785.9	1783.0	1776.6	1766.1	1753.6
25°	1741.9	1748.4	1756.7	1764.0	1771.0	1775.3	1776.7	1773.5	1766.9	1755.8	1743.0
25.5°	1730.3	1737.7	1745.6	1753.2	1760.7	1765.3	1766.5	1763.5	1757.1	1745.8	1733.1
26°	1718.7	1726.4	1734.8	1742.3	1750.7	1755.1	1756.1	1754.3	1747.3	1735.5	1722.2
26.5°	1707.0	1714.3	1723.3	1731.6	1740.8	1745.5	1746.2	1744.0	1736.7	1725.4	1711.4
27°	1694.5	1703.0	1711.9	1720.8	1729.4	1734.8	1735.9	1733.2	1726.7	1714.7	1700.5
27.5°	1682.6	1690.6	1700.4	1709.5	1719.3	1724.0	1725.3	1723.0	1716.2	1704.0	1689.2
28°	1669.8	1679.0	1688.1	1698.7	1707.9	1712.8	1714.4	1712.5	1705.3	1693.2	1677.6
28.5°	1657.3	1666.3	1676.7	1687.1	1696.2	1702.3	1704.0	1702.1	1694.6	1681.9	1666.8
29°	1644.4	1653.9	1664.9	1674.6	1685.6	1692.0	1693.5	1690.9	1683.6	1670.9	1654.9
29.5°	1630.9	1640.4	1652.3	1662.7	1673.9	1679.8	1682.8	1679.9	1671.9	1659.3	1642.7
30°	1618.3	1628.3	1640.0	1651.3	1662.1	1669.6	1670.6	1668.6	1660.4	1647.7	1631.0
30.5°	1605.0	1614.2	1627.3	1639.5	1650.2	1657.5	1658.9	1656.6	1650.0	1635.8	1618.8
31°	1590.4	1601.9	1614.8	1626.6	1638.5	1645.1	1648.1	1646.1	1637.9	1623.5	1606.7
31.5°	1576.6	1588.6	1601.7	1613.6	1626.7	1633.8	1636.1	1633.8	1625.5	1612.2	1594.4
32°	1563.0	1574.6	1588.3	1601.6	1613.7	1621.5	1623.7	1622.1	1614.4	1599.8	1581.7
32.5°	1548.9	1561.5	1575.5	1588.6	1600.9	1609.5	1612.0	1610.4	1601.7	1587.6	1569.3
33°	1534.8	1547.1	1562.2	1575.7	1589.3	1596.7	1600.2	1597.7	1589.8	1575.2	1555.9
33.5°	1520.4	1533.3	1548.3	1562.9	1576.0	1584.6	1587.1	1585.8	1577.3	1562.2	1542.9
34°	1506.0	1519.1	1534.6	1549.5	1562.4	1571.8	1574.8	1574.0	1564.9	1549.6	1530.0
34.5°	1492.0	1504.8	1520.7	1535.8	1549.7	1559.6	1562.5	1560.9	1551.6	1537.2	1518.4
35°	1477.0	1489.9	1506.6	1521.8	1537.0	1546.2	1550.0	1548.0	1539.3	1524.1	1505.6
35.5°	1461.3	1476.1	1492.4	1508.2	1523.5	1532.4	1536.8	1535.1	1526.5	1511.8	1491.3
36°	1446.3	1461.1	1478.2	1495.0	1509.4	1520.0	1523.8	1522.7	1513.8	1497.9	1477.1
36.5°	1431.3	1445.9	1464.0	1481.2	1496.1	1506.9	1510.8	1509.8	1500.1	1484.1	1463.0
37°	1416.2	1431.4	1449.4	1466.1	1483.1	1493.8	1497.4	1496.1	1486.4	1470.3	1448.8
37.5°	1401.3	1416.1	1434.8	1452.5	1468.8	1480.0	1483.8	1482.4	1472.8	1456.5	1434.7
38°	1385.6	1401.5	1420.5	1438.6	1455.2	1465.9	1470.1	1468.7	1459.1	1442.7	1420.6
38.5°	1370.7	1385.7	1405.9	1423.8	1440.0	1451.8	1456.6	1455.0	1445.4	1428.8	1406.1
39°	1355.0	1371.1	1390.6	1409.1	1426.2	1437.7	1442.5	1441.1	1431.4	1414.7	1392.2
39.5°	1339.9	1355.6	1375.6	1394.5	1411.9	1423.6	1428.1	1426.7	1417.0	1400.9	1377.3
40°	1323.8	1339.8	1360.3	1379.8	1397.5	1409.7	1414.4	1412.7	1403.2	1386.3	1363.0
40.5°	1307.5	1324.5	1344.6	1365.5	1382.5	1395.4	1400.0	1398.1	1388.9	1372.2	1348.6
41°	1291.5	1308.4	1329.6	1349.9	1368.3	1380.4	1385.3	1384.1	1374.5	1358.1	1334.0
41.5°	1276.3	1293.1	1314.4	1334.7	1353.0	1365.9	1371.2	1369.7	1360.5	1342.8	1318.6
42°	1260.8	1278.2	1299.0	1319.7	1338.2	1351.0	1355.9	1355.7	1345.4	1327.5	1303.7
42.5°	1245.0	1262.2	1283.7	1304.6	1323.0	1336.1	1341.5	1340.6	1331.1	1313.2	1288.3
43°	1229.1	1245.4	1267.8	1289.3	1308.2	1322.3	1326.7	1325.8	1315.9	1298.6	1274.7
43.5°	1212.5	1230.5	1252.5	1274.0	1293.5	1306.6	1311.9	1310.9	1300.8	1283.5	1259.1



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1165.2	1182.9	1205.5	1227.4	1248.0	1261.3	1266.4	1265.8	1256.1	1237.6	1213.0
45.5°	1148.7	1166.5	1189.7	1212.0	1231.6	1245.2	1251.6	1250.7	1240.2	1222.2	1197.5
46°	1132.6	1150.3	1173.8	1196.1	1216.1	1230.6	1235.7	1235.1	1224.6	1207.2	1182.1
46.5°	1116.5	1135.0	1157.3	1180.3	1200.1	1214.5	1220.1	1219.3	1209.3	1191.8	1166.8
47°	1100.7	1118.3	1141.5	1164.9	1185.2	1199.6	1205.1	1203.9	1193.7	1176.0	1151.0
47.5°	1084.7	1103.5	1125.7	1148.7	1169.6	1184.1	1188.6	1188.4	1178.4	1160.4	1135.3
48°	1068.7	1086.5	1109.7	1132.9	1153.7	1168.3	1173.2	1172.3	1162.7	1145.0	1119.7
48.5°	1053.0	1070.8	1094.6	1117.4	1137.1	1151.8	1157.2	1156.9	1147.0	1129.1	1103.5
49°	1036.7	1055.2	1078.8	1101.3	1122.3	1136.3	1141.7	1141.3	1131.6	1113.2	1088.2
49.5°	1021.4	1039.5	1062.7	1085.2	1105.6	1121.1	1126.4	1125.3	1115.4	1097.3	1072.8
50°	1005.7	1022.9	1046.7	1068.9	1090.6	1105.0	1110.5	1109.6	1099.7	1081.9	1056.7
50.5°	989.9	1007.4	1030.6	1053.6	1074.3	1089.1	1094.4	1093.6	1084.0	1065.7	1040.5
51°	973.8	991.7	1014.8	1038.0	1058.7	1072.8	1078.1	1077.4	1067.3	1049.7	1024.9
51.5°	958.6	976.7	998.9	1022.0	1042.2	1057.4	1062.0	1061.5	1051.7	1034.3	1008.9
52°	943.0	960.2	983.2	1005.6	1026.6	1040.3	1046.4	1045.6	1035.7	1017.6	993.0
52.5°	927.8	944.8	967.4	989.8	1010.3	1024.7	1030.5	1030.9	1019.5	1001.4	977.1
53°	912.4	929.3	951.4	974.1	994.7	1008.5	1015.3	1014.7	1003.3	985.6	961.4
53.5°	896.9	914.1	936.0	958.1	978.7	992.8	1000.8	996.8	987.3	970.0	945.4
54°	881.5	897.3	920.6	942.1	962.7	976.3	983.4	980.4	970.6	953.5	929.8
54.5°	866.6	882.7	904.6	926.4	946.0	960.7	965.5	964.4	954.6	937.7	914.0
55°	850.9	867.6	889.1	910.7	930.4	944.3	949.2	947.8	938.3	921.6	897.8
55.5°	835.6	852.4	874.0	894.9	914.0	928.2	932.5	931.3	921.7	905.3	881.7
56°	820.6	836.8	858.2	878.8	898.0	911.3	916.3	916.8	906.0	889.1	866.0
56.5°	805.8	821.6	842.5	863.1	882.1	895.1	900.9	900.3	890.0	873.0	850.2
57°	791.3	806.4	826.6	847.6	866.0	879.1	886.5	881.9	874.0	856.9	834.3
57.5°	776.3	791.7	811.2	832.4	850.0	863.1	869.4	866.0	856.4	840.6	818.6
58°	761.5	776.7	796.5	816.5	833.6	846.8	850.5	849.6	840.3	824.6	802.6
58.5°	747.1	761.5	780.8	800.1	817.5	830.2	834.3	833.5	823.9	809.0	786.7
59°	732.8	746.6	765.1	784.2	802.0	813.9	818.3	817.4	808.0	792.4	770.7
59.5°	718.1	732.3	750.1	768.8	786.2	798.7	803.3	799.7	791.2	776.1	755.4
60°	704.0	717.7	735.0	753.6	771.3	782.6	786.3	783.5	775.0	760.1	739.0
60.5°	689.8	703.0	720.3	738.1	755.8	765.5	768.2	767.3	758.0	743.8	723.6
61°	675.6	688.4	705.7	722.8	738.8	748.4	751.5	751.0	742.0	727.5	707.9
61.5°	661.4	673.8	690.6	708.0	722.2	732.7	735.7	733.9	725.1	711.2	691.8
62°	647.2	659.0	675.6	692.4	711.2	718.3	720.4	717.7	708.7	695.6	676.2
62.5°	632.9	644.3	660.4	677.3	694.3	713.0	699.3	700.7	692.6	679.4	660.4
63°	618.8	630.2	645.2	661.4	678.7	693.1	683.1	684.8	676.5	663.3	645.5
63.5°	605.4	616.2	630.2	645.3	661.1	674.0	667.4	668.0	659.4	647.4	629.9
64°	592.0	602.3	615.6	629.7	643.5	654.9	651.5	651.1	643.4	631.5	614.3
64.5°	578.4	588.0	601.2	614.6	627.3	635.7	635.5	634.7	627.1	615.3	598.6
65°	565.1	574.4	587.1	599.8	611.2	618.7	619.2	618.6	611.1	599.2	583.7
65.5°	551.8	560.8	572.6	584.6	595.5	602.2	603.6	601.9	594.6	583.5	568.1
66°	538.3	547.2	558.0	570.0	579.9	587.6	587.4	585.5	578.5	567.7	552.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	499.8	506.6	516.6	526.0	534.0	538.4	537.9	536.6	530.0	520.4	507.4
68°	486.8	493.5	502.7	511.2	518.5	522.9	521.5	520.4	513.8	504.5	491.8
68.5°	474.2	480.3	488.4	496.6	503.3	506.9	506.0	504.1	497.4	488.7	477.2
69°	461.4	466.9	474.9	481.9	487.9	491.2	489.7	487.7	481.2	473.4	462.1
69.5°	448.6	453.7	461.2	467.8	473.3	475.9	473.8	471.1	465.5	458.0	447.7
70°	435.9	441.0	447.8	453.8	458.3	459.7	457.3	455.4	449.7	442.4	432.7
70.5°	423.9	428.3	434.5	439.6	443.3	444.0	441.4	439.3	433.3	427.3	417.8
71°	411.9	415.8	421.1	425.6	428.4	428.7	425.2	423.4	418.0	411.5	403.0
71.5°	399.6	403.4	407.8	411.4	413.7	413.1	409.5	407.4	402.1	396.4	388.8
72°	387.4	390.7	394.5	397.6	399.0	397.9	393.9	391.5	386.3	381.1	374.4
72.5°	375.7	378.0	381.5	383.7	384.8	382.8	378.2	375.5	370.6	366.3	360.2
73°	363.6	365.5	368.5	370.1	370.5	367.5	362.6	359.7	355.1	351.1	345.6
73.5°	352.0	353.3	355.7	356.7	356.1	352.6	347.2	344.2	339.8	336.4	331.7
74°	340.7	341.5	343.3	343.5	341.8	337.7	331.7	328.7	324.7	321.5	317.6
74.5°	329.1	329.6	330.6	330.1	327.6	323.0	316.3	312.9	309.4	306.6	304.1
75°	317.6	317.7	318.0	316.4	313.5	308.2	301.2	297.8	294.5	292.4	290.4
75.5°	306.5	306.0	305.7	303.6	299.8	293.7	286.3	282.7	279.3	278.2	277.1
76°	295.5	294.6	293.4	290.7	286.2	279.3	271.4	267.6	264.7	264.0	263.3
76.5°	284.5	283.0	281.4	277.7	272.8	265.1	256.4	252.5	250.1	250.1	250.5
77°	273.6	271.7	269.7	265.6	259.2	251.0	242.2	237.9	235.8	236.2	237.4
77.5°	262.9	260.6	257.9	253.0	246.0	237.1	227.6	223.5	221.3	222.9	224.8
78°	252.5	249.8	246.2	240.7	233.1	223.5	213.6	209.1	207.4	209.2	211.6
78.5°	242.1	238.9	235.0	228.8	220.4	210.1	199.8	195.1	193.6	196.1	199.7
79°	232.0	228.5	223.7	216.9	207.9	196.9	186.2	181.8	180.6	183.9	188.3
79.5°	222.0	218.0	212.7	204.9	195.6	183.9	172.4	168.5	167.6	171.7	176.8
80°	212.1	207.8	202.0	193.7	183.4	170.9	159.4	155.2	154.6	159.5	165.3
80.5°	202.4	197.7	191.4	182.1	171.4	158.7	146.7	141.9	141.7	147.3	153.9
81°	193.2	188.1	181.1	171.5	159.9	146.7	134.2	129.2	129.4	135.1	142.5
81.5°	183.9	178.4	171.0	160.7	148.8	134.9	122.0	116.4	117.6	123.6	131.7
82°	174.7	168.9	161.2	150.6	137.6	123.4	110.2	104.4	105.7	112.4	121.2
82.5°	165.8	159.8	151.6	140.3	127.0	112.3	99.0	93.3	94.5	101.9	111.3
83°	157.4	150.9	142.3	130.7	116.9	101.5	88.0	82.2	84.0	91.8	101.7
83.5°	149.0	142.4	133.4	121.3	106.9	91.4	77.7	71.9	74.1	82.0	92.5
84°	140.8	134.1	124.7	112.2	97.4	81.5	67.8	61.8	64.1	72.6	83.8
84.5°	133.1	125.9	116.2	103.1	88.3	72.2	59.3	52.4	54.9	63.8	75.4
85°	125.3	118.0	107.9	95.0	79.7	64.6	51.0	43.5	46.2	55.6	67.6
85.5°	117.8	110.4	100.2	87.0	71.7	57.0	42.6	35.3	38.3	48.0	60.3
86°	110.7	103.2	92.8	79.5	65.0	49.5	34.3	29.4	31.0	41.1	53.6
86.5°	103.9	96.3	85.6	72.4	58.4	41.9	27.1	23.4	26.2	34.7	47.2
87°	97.2	89.5	78.8	66.5	51.8	34.4	20.9	17.4	21.4	29.1	41.3
87.5°	90.8	83.0	72.6	60.6	45.2	28.5	15.6	11.5	16.6	25.4	36.0
88°	84.7	76.9	67.1	54.7	38.7	23.5	11.2	5.6	11.7	21.7	31.3
88.5°	78.9	70.8	61.8	48.8	33.5	19.2	7.8	2.5	7.1	18.0	27.1



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	63.9	56.4	46.2	34.1	21.3	9.9	3.5	0.8	3.0	9.0	19.1
90.5°	59.4	51.7	41.9	30.2	18.2	8.0	2.1	0.6	2.6	7.7	16.8
91°	54.9	47.4	37.9	26.8	15.7	7.1	1.6	0.4	2.2	6.8	14.6
91.5°	50.5	43.5	34.3	23.7	13.5	6.2	1.3	0.3	2.0	6.1	12.4
92°	46.6	39.7	31.0	21.2	11.8	5.3	1.0	0.3	1.8	5.7	11.3
92.5°	43.0	36.4	28.1	18.8	10.4	4.4	0.8	0.4	1.7	5.3	10.5
93°	39.7	33.4	25.5	16.9	9.3	4.0	0.7	0.5	1.5	5.0	9.8
93.5°	36.6	30.6	23.1	15.2	8.4	3.6	0.7	0.6	1.4	4.7	9.3
94°	33.8	28.0	21.0	13.8	7.8	3.3	0.6	0.6	1.4	4.6	8.9
94.5°	31.2	25.7	19.2	12.7	7.4	3.0	0.7	0.7	1.4	4.6	8.5
95°	28.8	23.7	17.6	11.7	6.9	2.8	0.7	0.8	1.4	4.5	8.2
95.5°	26.7	21.9	16.3	11.0	6.5	2.5	0.8	0.9	1.4	4.4	8.0
96°	24.7	20.3	15.3	10.5	6.0	2.4	0.9	1.0	1.4	4.3	7.8
96.5°	23.1	19.0	14.4	9.9	5.7	2.2	1.1	1.1	1.4	4.1	7.6
97°	21.5	17.8	13.6	9.4	5.4	2.1	1.1	1.2	1.4	4.0	7.5
97.5°	20.2	16.8	13.0	9.0	5.1	2.0	1.2	1.3	1.3	3.8	7.4
98°	19.1	16.0	12.4	8.6	4.8	1.9	1.3	1.4	1.4	3.7	7.3
98.5°	18.2	15.3	11.9	8.2	4.5	1.8	1.4	1.6	1.5	3.6	7.2
99°	17.4	14.7	11.4	7.7	4.3	1.7	1.5	1.7	1.6	3.6	7.1
99.5°	16.7	14.1	10.9	7.4	4.0	1.7	1.6	1.9	1.7	3.6	6.9
100°	16.1	13.6	10.4	7.0	3.8	1.7	1.8	2.1	1.9	3.6	6.7
100.5°	15.5	13.0	10.0	6.6	3.6	1.7	1.8	2.2	2.0	3.5	6.5
101°	14.9	12.5	9.6	6.3	3.4	1.7	1.9	2.4	2.1	3.5	6.4
101.5°	14.4	12.0	9.1	5.9	3.2	1.7	2.0	2.5	2.2	3.4	6.3
102°	13.8	11.5	8.8	5.6	3.0	1.7	2.1	2.6	2.3	3.3	6.1
102.5°	13.3	11.1	8.4	5.4	2.8	1.7	2.2	2.6	2.4	3.2	6.0
103°	12.8	10.6	8.0	5.1	2.7	1.8	2.4	2.7	2.5	3.1	5.9
103.5°	12.3	10.2	7.7	4.9	2.6	1.9	2.4	2.8	2.6	3.0	5.8
104°	11.8	9.8	7.3	4.6	2.5	2.0	2.5	2.8	2.7	2.9	5.6
104.5°	11.4	9.4	7.0	4.4	2.5	2.2	2.6	2.9	2.8	2.9	5.5
105°	10.9	9.0	6.7	4.2	2.5	2.3	2.9	3.0	2.9	2.9	5.3
105.5°	10.5	8.7	6.4	4.0	2.5	2.4	3.3	3.1	3.0	2.9	5.2
106°	10.1	8.3	6.1	3.8	2.4	2.4	3.7	3.2	3.1	2.8	5.0
106.5°	9.7	8.0	5.9	3.7	2.4	2.4	4.1	3.3	3.3	2.8	4.8
107°	9.3	7.7	5.6	3.5	2.4	2.5	4.4	3.4	3.7	2.7	4.6
107.5°	8.9	7.3	5.3	3.4	2.4	2.6	4.5	3.4	4.0	2.6	4.5
108°	8.6	7.0	5.1	3.2	2.4	2.6	4.4	3.5	4.0	2.7	4.3
108.5°	8.2	6.7	4.8	3.1	2.5	2.7	4.3	3.5	3.9	2.8	4.2
109°	7.9	6.4	4.6	3.0	2.6	2.8	4.2	3.6	3.9	2.9	4.1
109.5°	7.6	6.1	4.4	2.9	2.6	2.9	4.2	3.6	4.0	2.9	4.0
110°	7.3	5.8	4.2	2.9	2.7	3.0	4.1	3.7	4.0	3.0	3.9
110.5°	7.0	5.5	4.0	2.8	2.7	3.1	4.1	3.7	4.1	3.1	3.8
111°	6.7	5.3	3.9	2.8	2.8	3.2	4.1	3.8	4.2	3.2	3.8



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	5.9	4.6	3.4	2.7	2.9	3.7	4.2	3.9	4.6	3.4	3.7
113°	5.6	4.5	3.3	2.7	2.9	3.9	4.3	3.9	4.7	3.4	3.6
113.5°	5.4	4.3	3.3	2.7	3.0	4.1	4.4	4.0	4.7	3.5	3.5
114°	5.2	4.2	3.2	2.8	3.1	4.3	4.4	4.0	4.8	3.5	3.4
114.5°	5.0	4.1	3.2	2.8	3.2	4.5	4.5	4.0	4.8	3.6	3.2
115°	4.8	4.0	3.2	2.8	3.3	4.6	4.5	4.0	4.9	3.7	3.1
115.5°	4.6	3.9	3.2	2.9	3.5	4.8	4.6	4.0	4.9	3.7	3.1
116°	4.4	3.8	3.2	3.0	3.6	5.0	4.6	4.0	5.0	3.8	3.1
116.5°	4.3	3.7	3.1	3.1	3.7	5.2	4.7	4.0	5.0	3.9	3.2
117°	4.2	3.6	3.1	3.2	3.8	5.2	4.7	4.0	5.1	4.0	3.2
117.5°	4.0	3.6	3.0	3.3	3.9	5.2	4.8	4.0	5.1	4.1	3.3
118°	3.9	3.5	3.0	3.4	4.0	5.3	4.8	4.1	5.2	4.2	3.4
118.5°	3.8	3.4	3.0	3.5	4.1	5.5	4.9	4.1	5.2	4.2	3.5
119°	3.7	3.4	3.1	3.6	4.2	5.7	5.0	4.1	5.2	4.3	3.5
119.5°	3.7	3.3	3.1	3.7	4.3	5.9	5.0	4.1	5.3	4.5	3.6
120°	3.6	3.2	3.2	3.8	4.4	6.0	5.1	4.1	5.3	4.6	3.7
120.5°	3.5	3.2	3.2	3.9	4.5	6.1	5.1	4.1	5.3	4.8	3.8
121°	3.4	3.2	3.3	3.9	4.6	6.2	5.1	4.1	5.4	4.8	3.9
121.5°	3.4	3.1	3.4	4.0	4.7	6.3	5.1	4.1	5.4	4.8	4.0
122°	3.3	3.1	3.5	4.1	4.8	6.3	5.1	4.1	5.4	4.8	4.0
122.5°	3.3	3.1	3.5	4.1	5.0	6.2	5.0	4.1	5.4	4.8	4.1
123°	3.2	3.2	3.6	4.2	5.1	6.1	5.0	4.1	5.4	4.8	4.1
123.5°	3.2	3.2	3.7	4.3	5.2	6.0	5.0	4.1	5.5	4.9	4.2
124°	3.1	3.3	3.8	4.4	5.3	5.9	4.9	4.1	5.5	5.0	4.2
124.5°	3.1	3.3	3.9	4.4	5.4	5.8	4.9	4.1	5.5	5.0	4.3
125°	3.1	3.4	3.9	4.5	5.6	5.7	4.9	4.1	5.5	5.1	4.4
125.5°	3.2	3.4	4.0	4.6	5.8	5.7	4.8	4.1	5.5	5.1	4.4
126°	3.2	3.5	4.1	4.7	6.0	5.6	4.8	4.1	5.5	5.2	4.5
126.5°	3.2	3.6	4.1	4.8	6.1	5.6	4.8	4.1	5.5	5.2	4.5
127°	3.3	3.6	4.2	4.9	6.2	5.5	4.7	4.1	5.5	5.3	4.6
127.5°	3.3	3.7	4.3	5.0	6.1	5.5	4.7	4.2	5.5	5.3	4.6
128°	3.4	3.8	4.3	5.1	6.2	5.4	4.7	4.2	5.5	5.3	4.7
128.5°	3.4	3.8	4.4	5.2	6.3	5.4	4.7	4.1	5.5	5.3	4.8
129°	3.5	3.9	4.5	5.3	6.4	5.4	4.7	4.1	5.5	5.3	5.0
129.5°	3.5	3.9	4.5	5.4	6.5	5.4	4.7	4.1	5.5	5.4	5.1
130°	3.6	4.0	4.6	5.5	6.6	5.4	4.7	4.2	5.4	5.4	5.2
130.5°	3.7	4.1	4.7	5.6	6.6	5.4	4.6	4.2	5.5	5.5	5.2
131°	3.7	4.1	4.8	5.7	6.7	5.4	4.6	4.2	5.5	5.5	5.2
131.5°	3.8	4.2	4.9	5.8	6.7	5.4	4.6	4.2	5.5	5.5	5.2
132°	3.8	4.3	4.9	5.9	6.7	5.4	4.6	4.2	5.5	5.6	5.1
132.5°	3.9	4.4	5.0	6.1	6.7	5.3	4.6	4.2	5.5	5.6	5.2
133°	3.9	4.4	5.1	6.2	6.7	5.3	4.6	4.2	5.5	5.6	5.2
133.5°	4.0	4.5	5.2	6.3	6.7	5.3	4.6	4.3	5.4	5.6	5.2



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	4.2	4.7	5.5	6.7	6.5	5.2	4.6	4.3	5.4	5.7	5.1
135.5°	4.3	4.8	5.6	6.7	6.4	5.2	4.6	4.3	5.4	5.7	5.2
136°	4.4	4.9	5.7	6.8	6.4	5.2	4.7	4.3	5.4	5.7	5.2
136.5°	4.4	5.0	5.8	6.8	6.3	5.2	4.7	4.3	5.4	5.7	5.2
137°	4.5	5.1	5.8	6.9	6.2	5.2	4.7	4.3	5.3	5.7	5.2
137.5°	4.6	5.1	5.9	6.9	6.2	5.2	4.7	4.3	5.3	5.7	5.3
138°	4.7	5.2	6.1	7.0	6.1	5.2	4.7	4.3	5.2	5.6	5.3
138.5°	4.7	5.3	6.2	7.0	6.0	5.2	4.8	4.3	5.0	5.6	5.3
139°	4.8	5.4	6.4	7.0	5.9	5.2	4.8	4.3	5.0	5.6	5.3
139.5°	4.9	5.5	6.4	7.0	5.8	5.2	4.8	4.3	5.0	5.6	5.3
140°	5.0	5.6	6.5	6.9	5.7	5.2	4.8	4.3	5.1	5.6	5.3
140.5°	5.0	5.6	6.6	6.9	5.6	5.2	4.8	4.2	5.1	5.7	5.3
141°	5.1	5.7	6.6	6.8	5.6	5.2	4.7	4.2	5.1	5.7	5.3
141.5°	5.2	5.8	6.7	6.7	5.5	5.2	4.8	4.2	5.1	5.8	5.3
142°	5.3	6.0	6.7	6.6	5.4	5.2	4.8	4.2	5.1	5.8	5.3
142.5°	5.3	6.1	6.8	6.5	5.4	5.2	4.8	4.1	5.1	5.8	5.2
143°	5.4	6.3	6.8	6.4	5.3	5.2	4.7	4.0	5.0	5.7	5.2
143.5°	5.5	6.4	6.8	6.3	5.3	5.2	4.7	4.1	5.0	5.5	5.2
144°	5.6	6.4	6.8	6.2	5.2	5.2	4.7	4.1	5.0	5.5	5.3
144.5°	5.8	6.4	6.7	6.1	5.2	5.2	4.8	4.2	5.0	5.7	5.4
145°	6.0	6.5	6.6	5.9	5.2	5.1	4.8	4.2	4.9	5.8	5.3
145.5°	6.1	6.5	6.6	5.8	5.1	5.1	4.8	4.1	4.9	5.8	5.3
146°	6.2	6.5	6.5	5.7	5.1	5.2	4.8	4.1	4.8	5.8	5.3
146.5°	6.2	6.4	6.4	5.6	5.1	5.2	4.8	4.1	4.8	5.8	5.3
147°	6.2	6.4	6.3	5.5	5.0	5.1	4.7	4.1	4.7	5.8	5.4
147.5°	6.2	6.4	6.1	5.4	5.0	5.1	4.6	4.1	4.8	5.7	5.5
148°	6.2	6.3	6.1	5.3	5.0	4.9	4.5	4.2	4.8	5.7	5.5
148.5°	6.1	6.3	5.9	5.2	5.0	4.8	4.6	4.2	4.8	5.7	5.6
149°	6.1	6.2	5.8	5.1	4.9	4.9	4.7	4.2	4.7	5.7	5.6
149.5°	6.1	6.1	5.7	5.0	4.9	5.0	4.7	4.1	4.7	5.6	5.6
150°	6.0	6.0	5.5	5.0	4.9	5.0	4.6	4.2	4.7	5.6	5.6
150.5°	6.0	5.9	5.4	4.9	4.8	4.9	4.6	4.2	4.7	5.6	5.6
151°	6.0	5.8	5.3	4.8	4.7	4.9	4.6	4.2	4.6	5.5	5.4
151.5°	6.0	5.7	5.2	4.8	4.7	4.9	4.5	4.2	4.6	5.5	5.4
152°	5.9	5.5	5.1	4.7	4.8	4.9	4.5	4.2	4.5	5.4	5.5
152.5°	5.7	5.4	5.0	4.7	4.8	4.8	4.5	4.2	4.3	5.3	5.6
153°	5.6	5.3	4.9	4.6	4.8	4.8	4.4	4.1	4.1	5.2	5.6
153.5°	5.5	5.2	4.8	4.6	4.8	4.8	4.4	4.0	4.0	5.1	5.6
154°	5.4	5.1	4.7	4.6	4.8	4.8	4.4	3.9	4.0	5.1	5.6
154.5°	5.2	4.9	4.6	4.6	4.8	4.7	4.4	3.9	3.9	4.8	5.5
155°	5.1	4.8	4.5	4.5	4.7	4.5	4.4	3.9	3.8	4.6	5.3
155.5°	5.0	4.7	4.5	4.5	4.6	4.4	4.3	3.8	3.8	4.4	5.0
156°	4.9	4.6	4.4	4.5	4.5	4.4	4.2	3.6	3.8	4.3	4.8



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	4.6	4.4	4.4	4.5	4.4	4.3	3.6	3.6	3.7	4.2	4.8
158°	4.5	4.3	4.4	4.5	4.6	4.3	3.5	3.6	3.7	4.1	4.8
158.5°	4.4	4.3	4.4	4.5	4.6	4.2	3.5	3.6	3.7	4.1	4.7
159°	4.3	4.3	4.4	4.5	4.5	4.2	3.5	3.6	3.6	4.0	4.5
159.5°	4.3	4.3	4.4	4.4	4.4	4.1	3.5	3.5	3.6	4.0	4.5
160°	4.2	4.3	4.4	4.3	4.3	4.2	3.5	3.5	3.6	4.0	4.4
160.5°	4.2	4.3	4.4	4.3	4.3	4.2	3.5	3.5	3.6	3.9	4.4
161°	4.2	4.3	4.4	4.3	4.4	4.1	3.5	3.5	3.6	3.9	4.3
161.5°	4.2	4.3	4.4	4.5	4.5	3.8	3.5	3.5	3.6	3.8	4.3
162°	4.2	4.3	4.4	4.5	4.4	3.6	3.5	3.4	3.6	3.8	4.2
162.5°	4.2	4.3	4.5	4.5	4.2	3.5	3.4	3.4	3.6	3.8	4.2
163°	4.2	4.3	4.5	4.5	4.2	3.5	3.4	3.4	3.6	3.7	4.1
163.5°	4.3	4.4	4.5	4.5	3.9	3.5	3.4	3.4	3.6	3.7	4.1
164°	4.3	4.4	4.5	4.4	3.6	3.4	3.4	3.4	3.5	3.7	4.0
164.5°	4.3	4.4	4.5	4.3	3.6	3.4	3.4	3.4	3.5	3.7	4.0
165°	4.3	4.4	4.5	4.3	3.6	3.4	3.4	3.4	3.5	3.6	3.9
165.5°	4.4	4.5	4.5	4.2	3.5	3.4	3.4	3.4	3.5	3.6	3.9
166°	4.4	4.5	4.5	4.2	3.5	3.4	3.4	3.4	3.5	3.6	3.9
166.5°	4.4	4.5	4.5	4.2	3.5	3.4	3.4	3.4	3.5	3.6	3.9
167°	4.5	4.5	4.5	4.0	3.5	3.4	3.4	3.4	3.5	3.6	3.9
167.5°	4.5	4.5	4.4	3.7	3.4	3.4	3.5	3.4	3.5	3.6	3.8
168°	4.5	4.6	4.3	3.6	3.4	3.4	3.5	3.4	3.5	3.6	3.8
168.5°	4.5	4.5	4.2	3.6	3.4	3.4	3.5	3.5	3.5	3.6	3.8
169°	4.5	4.5	4.1	3.5	3.4	3.4	3.5	3.5	3.5	3.6	3.7
169.5°	4.5	4.5	4.1	3.5	3.4	3.5	3.6	3.5	3.5	3.6	3.7
170°	4.5	4.4	4.1	3.5	3.4	3.5	3.8	3.7	3.5	3.7	3.9
170.5°	4.5	4.3	3.7	3.5	3.4	3.7	3.9	3.9	3.5	3.9	4.2
171°	4.5	4.2	3.5	3.4	3.5	3.7	4.0	3.9	3.5	4.2	4.2
171.5°	4.4	4.1	3.5	3.4	3.5	3.8	4.1	3.9	3.9	4.2	4.2
172°	4.3	4.0	3.4	3.4	3.6	4.0	4.0	3.9	3.9	4.1	4.2
172.5°	4.2	3.9	3.4	3.3	3.7	4.1	4.0	4.0	3.9	4.1	4.2
173°	4.2	3.9	3.4	3.3	3.7	4.0	4.0	4.0	3.9	4.1	4.2
173.5°	4.1	3.8	3.4	3.4	3.7	4.0	4.0	4.0	4.0	4.0	4.2
174°	4.0	3.5	3.3	3.4	3.7	4.0	4.0	4.0	4.0	4.0	4.2
174.5°	3.9	3.4	3.3	3.5	3.9	4.1	4.0	4.0	4.0	4.0	4.1
175°	3.9	3.4	3.3	3.5	4.0	4.1	4.0	4.0	4.0	4.0	4.1
175.5°	3.8	3.5	3.3	3.5	3.9	4.1	4.0	4.0	4.0	4.0	4.0
176°	3.8	3.5	3.4	3.6	3.9	4.0	4.0	4.0	4.0	4.0	4.0
176.5°	3.8	3.6	3.4	3.6	3.8	4.0	4.0	4.0	4.0	4.0	4.0
177°	3.8	3.6	3.5	3.6	3.9	4.1	4.0	4.0	4.0	4.0	4.0
177.5°	3.7	3.5	3.4	3.6	3.9	4.0	4.0	3.9	3.9	3.9	3.9
178°	3.4	3.3	3.3	3.4	3.6	3.8	3.9	3.9	3.8	3.8	3.8
178.5°	3.5	3.2	3.2	3.3	3.5	3.6	3.7	3.7	3.8	3.8	3.8



TEST NUMBER: P563541
CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1	2022.1
0.5°	2021.3	2021.4	2021.4	2021.4	2021.4	2021.5	2021.5	2021.6	2021.6	2021.7	2021.7
1°	2020.8	2020.7	2020.4	2020.0	2019.6	2019.3	2019.6	2020.0	2020.4	2020.9	2021.1
1.5°	2019.6	2019.7	2019.7	2019.5	2019.3	2019.2	2019.5	2019.7	2020.0	2020.2	2020.5
2°	2017.9	2017.9	2017.7	2017.3	2017.0	2017.0	2017.2	2017.7	2018.3	2018.8	2018.9
2.5°	2016.7	2016.6	2015.7	2014.9	2014.9	2015.3	2015.3	2015.4	2016.1	2017.0	2017.5
3°	2014.8	2014.5	2013.5	2013.1	2013.4	2013.7	2013.6	2013.6	2014.2	2015.0	2015.3
3.5°	2011.7	2011.5	2011.2	2010.6	2010.7	2011.4	2011.8	2012.1	2012.6	2013.2	2014.0
4°	2010.1	2009.9	2009.1	2008.3	2008.6	2009.3	2009.6	2009.8	2009.9	2010.7	2011.4
4.5°	2007.0	2006.5	2006.4	2006.4	2006.3	2005.9	2006.2	2006.7	2007.1	2008.4	2009.9
5°	2004.5	2004.2	2003.1	2002.6	2002.0	2001.7	2002.5	2003.6	2004.8	2006.4	2008.2
5.5°	2001.9	2001.0	2000.2	1999.5	1999.1	1999.5	1999.6	2000.4	2002.0	2004.0	2005.9
6°	1998.3	1997.5	1996.9	1996.3	1996.1	1995.7	1995.7	1996.5	1998.3	1999.8	2002.3
6.5°	1994.7	1993.3	1992.7	1992.2	1991.9	1992.2	1992.2	1993.3	1995.0	1996.8	1999.5
7°	1991.9	1990.5	1988.8	1987.8	1988.1	1988.5	1988.9	1989.9	1991.8	1993.3	1996.9
7.5°	1988.5	1987.1	1984.7	1984.1	1983.3	1982.6	1983.6	1985.3	1987.2	1989.7	1992.9
8°	1983.9	1982.8	1980.7	1979.3	1978.6	1978.8	1979.4	1981.0	1983.0	1985.2	1989.0
8.5°	1979.5	1977.3	1976.1	1974.9	1973.8	1974.2	1974.5	1976.4	1978.9	1981.3	1985.0
9°	1974.5	1972.6	1971.3	1969.6	1969.3	1969.3	1969.3	1971.0	1974.1	1977.6	1982.0
9.5°	1970.4	1968.2	1965.5	1964.5	1963.9	1963.6	1963.9	1966.0	1969.1	1972.8	1977.6
10°	1967.0	1963.3	1960.7	1959.0	1958.4	1958.4	1958.2	1960.5	1964.2	1968.1	1972.6
10.5°	1961.3	1958.2	1955.0	1953.0	1952.1	1951.3	1952.7	1955.4	1958.7	1963.1	1968.6
11°	1955.6	1952.5	1949.3	1947.4	1946.4	1946.1	1946.6	1948.9	1953.1	1957.3	1963.3
11.5°	1949.9	1946.4	1943.1	1941.0	1940.1	1939.2	1940.5	1942.9	1947.2	1953.0	1957.3
12°	1945.0	1940.3	1936.7	1934.7	1933.3	1932.9	1934.6	1937.5	1941.5	1947.6	1953.4
12.5°	1939.5	1934.5	1930.8	1928.5	1927.1	1925.6	1927.7	1930.6	1935.1	1941.1	1948.4
13°	1933.5	1927.9	1924.0	1921.2	1918.9	1918.3	1920.8	1923.7	1928.0	1934.9	1941.7
13.5°	1926.4	1920.9	1916.8	1913.7	1911.4	1911.3	1913.4	1916.2	1921.4	1928.0	1936.1
14°	1920.4	1914.3	1909.8	1906.5	1904.0	1904.7	1905.5	1909.0	1914.9	1922.5	1929.0
14.5°	1913.6	1906.8	1902.7	1899.3	1895.8	1896.3	1898.5	1901.6	1907.6	1915.5	1923.2
15°	1906.6	1899.8	1895.4	1891.1	1888.7	1888.3	1890.2	1894.4	1899.7	1907.9	1916.3
15.5°	1900.0	1892.9	1887.1	1882.6	1880.9	1879.7	1881.8	1886.0	1892.5	1900.6	1909.6
16°	1892.8	1885.4	1878.9	1874.0	1871.1	1871.0	1872.9	1877.6	1884.2	1892.7	1902.0
16.5°	1885.1	1877.4	1870.9	1865.6	1863.0	1863.2	1864.9	1869.1	1876.5	1885.1	1894.5
17°	1877.5	1869.3	1862.8	1857.5	1854.6	1854.1	1856.1	1860.5	1868.0	1877.9	1887.1
17.5°	1869.5	1861.1	1854.3	1848.7	1845.5	1844.6	1847.3	1851.5	1859.1	1869.5	1880.2
18°	1861.2	1852.3	1845.3	1839.2	1835.7	1834.6	1836.7	1843.1	1850.8	1861.0	1872.3
18.5°	1852.8	1843.9	1835.7	1829.1	1826.3	1825.7	1827.9	1833.9	1842.5	1852.6	1864.0
19°	1845.0	1834.5	1826.1	1819.6	1817.3	1815.1	1817.4	1823.7	1832.3	1843.6	1854.8
19.5°	1835.3	1825.1	1816.5	1809.8	1807.0	1805.3	1807.9	1813.6	1822.6	1835.0	1846.8
20°	1827.0	1816.5	1807.2	1799.9	1795.9	1795.2	1798.4	1804.1	1813.7	1825.9	1839.3
20.5°	1818.1	1806.8	1797.5	1789.5	1785.0	1784.5	1787.8	1794.5	1804.0	1816.7	1830.7
21°	1808.4	1797.3	1787.3	1778.9	1774.0	1773.8	1777.0	1783.8	1794.3	1807.6	1821.0



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1779.6	1766.4	1755.4	1747.0	1740.8	1739.9	1742.8	1750.1	1762.1	1777.8	1792.6
23°	1770.0	1756.0	1744.9	1735.5	1729.6	1729.3	1731.6	1739.4	1751.8	1767.5	1783.6
23.5°	1759.4	1744.8	1733.3	1723.9	1718.8	1716.6	1719.6	1727.8	1740.8	1756.5	1773.4
24°	1749.2	1734.2	1721.7	1711.3	1706.3	1704.1	1707.0	1716.5	1729.1	1745.5	1762.6
24.5°	1738.6	1723.5	1709.9	1699.2	1694.2	1691.4	1695.7	1705.7	1718.6	1734.8	1752.5
25°	1729.2	1712.3	1699.2	1687.9	1682.5	1679.3	1683.5	1693.8	1707.1	1723.9	1741.6
25.5°	1717.0	1700.6	1687.4	1675.6	1669.1	1666.9	1670.9	1680.7	1694.7	1712.3	1731.5
26°	1705.7	1688.8	1674.6	1663.4	1657.0	1654.1	1658.5	1668.3	1683.6	1701.5	1720.9
26.5°	1694.6	1677.4	1662.1	1650.7	1644.4	1641.3	1644.9	1655.9	1671.2	1690.0	1709.4
27°	1683.9	1666.2	1650.1	1637.4	1630.7	1628.9	1632.3	1642.9	1659.0	1677.8	1698.1
27.5°	1672.1	1653.1	1637.4	1624.1	1616.7	1615.9	1619.5	1629.8	1646.1	1666.5	1686.3
28°	1659.7	1641.0	1625.0	1611.1	1604.1	1602.0	1606.6	1618.0	1634.2	1654.2	1675.5
28.5°	1648.4	1629.4	1612.4	1598.9	1590.8	1588.3	1592.5	1604.4	1621.5	1641.6	1662.7
29°	1636.4	1616.3	1599.2	1584.8	1576.7	1575.5	1579.8	1590.3	1607.5	1628.8	1651.0
29.5°	1624.2	1603.2	1585.9	1571.3	1563.4	1560.8	1564.5	1577.0	1594.9	1616.9	1639.7
30°	1611.7	1590.3	1572.6	1557.7	1549.0	1546.8	1551.7	1563.8	1581.9	1604.5	1627.4
30.5°	1599.0	1577.7	1559.2	1543.8	1535.7	1532.6	1537.3	1549.7	1568.1	1591.1	1614.6
31°	1586.4	1564.5	1545.6	1530.1	1521.6	1518.5	1523.7	1536.3	1554.8	1577.9	1602.6
31.5°	1573.4	1551.3	1532.0	1516.0	1506.9	1503.8	1509.2	1522.5	1541.6	1565.3	1589.6
32°	1560.2	1538.2	1518.5	1501.3	1492.2	1489.1	1494.6	1507.9	1528.3	1552.1	1577.0
32.5°	1547.9	1524.8	1504.3	1486.5	1477.5	1474.4	1480.0	1493.3	1514.3	1539.0	1564.1
33°	1534.4	1510.7	1490.2	1471.8	1462.8	1459.7	1465.5	1478.7	1499.9	1525.7	1551.4
33.5°	1520.4	1496.5	1476.1	1457.0	1448.0	1445.0	1450.9	1464.1	1485.6	1512.0	1538.3
34°	1508.9	1482.6	1462.1	1443.0	1432.4	1430.1	1435.1	1449.4	1471.2	1498.1	1525.0
34.5°	1494.6	1468.7	1447.8	1429.1	1417.8	1414.5	1420.4	1435.3	1457.0	1484.1	1512.2
35°	1480.5	1454.4	1432.1	1414.0	1403.0	1399.3	1405.6	1420.8	1442.6	1470.2	1498.5
35.5°	1466.5	1440.2	1417.6	1399.2	1387.9	1384.3	1390.5	1406.1	1427.8	1456.2	1484.9
36°	1452.4	1426.2	1403.3	1383.4	1372.1	1368.8	1374.9	1389.7	1413.0	1442.2	1471.2
36.5°	1438.1	1411.4	1387.4	1368.2	1356.3	1353.6	1359.5	1375.2	1398.0	1427.0	1457.5
37°	1423.7	1396.0	1372.7	1353.3	1340.7	1337.4	1343.8	1360.3	1383.2	1412.3	1443.3
37.5°	1409.4	1381.3	1357.7	1338.1	1326.3	1322.0	1328.6	1344.5	1367.7	1397.4	1429.0
38°	1394.4	1366.3	1342.1	1321.8	1309.8	1307.2	1312.7	1329.5	1353.3	1382.9	1413.7
38.5°	1379.9	1351.7	1326.9	1306.7	1294.5	1290.4	1297.4	1313.9	1338.1	1368.3	1399.5
39°	1365.4	1336.9	1311.4	1291.0	1279.0	1275.3	1282.2	1298.7	1322.9	1353.5	1385.1
39.5°	1350.4	1322.2	1296.6	1275.4	1263.7	1259.3	1265.7	1282.7	1307.4	1338.3	1370.8
40°	1336.0	1306.7	1281.1	1260.2	1247.4	1243.7	1250.5	1267.3	1291.9	1323.3	1355.9
40.5°	1321.1	1291.4	1265.7	1244.3	1231.4	1227.8	1233.9	1251.0	1277.2	1308.2	1341.6
41°	1306.2	1276.1	1250.1	1228.2	1215.7	1211.9	1219.0	1236.1	1261.3	1293.2	1326.3
41.5°	1290.9	1261.0	1234.7	1213.0	1200.0	1196.4	1202.5	1220.5	1246.1	1278.0	1311.4
42°	1275.5	1245.3	1218.7	1197.3	1183.6	1180.1	1187.3	1204.3	1230.4	1262.3	1297.2
42.5°	1261.0	1230.4	1203.1	1181.4	1168.0	1164.5	1171.2	1188.9	1215.4	1246.7	1281.2
43°	1246.0	1214.4	1187.9	1165.6	1151.7	1149.0	1155.9	1173.4	1199.7	1232.0	1266.5
43.5°	1230.4	1199.3	1172.0	1149.5	1136.6	1132.7	1139.6	1157.0	1183.2	1216.7	1251.2



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	1184.0	1151.8	1124.4	1102.4	1089.4	1084.9	1091.6	1109.9	1136.0	1170.0	1205.5
45.5°	1168.5	1136.6	1109.5	1086.5	1073.4	1069.4	1076.5	1094.4	1120.6	1154.3	1189.8
46°	1153.0	1121.3	1093.3	1071.0	1057.3	1054.2	1060.9	1079.0	1105.6	1138.7	1174.6
46.5°	1137.3	1105.5	1077.8	1055.3	1041.8	1038.3	1045.1	1063.5	1090.1	1123.1	1158.7
47°	1122.0	1089.4	1061.9	1039.6	1025.7	1022.4	1029.6	1047.3	1074.1	1107.4	1143.8
47.5°	1105.9	1073.9	1046.6	1024.0	1010.4	1007.2	1013.9	1031.8	1058.3	1091.8	1127.9
48°	1089.9	1058.7	1030.2	1008.2	995.1	991.1	997.7	1015.9	1042.6	1075.9	1112.0
48.5°	1074.2	1042.8	1015.1	993.0	979.7	975.7	982.9	1000.4	1026.9	1060.5	1095.9
49°	1058.9	1027.0	999.4	977.6	963.8	960.1	967.7	985.3	1012.1	1045.4	1080.4
49.5°	1043.9	1011.3	984.3	962.3	948.3	945.4	952.0	969.9	995.9	1029.5	1065.3
50°	1026.9	995.8	968.3	946.5	932.9	929.7	937.2	954.1	981.1	1013.6	1049.9
50.5°	1012.0	980.1	952.1	930.9	918.2	914.7	921.0	938.4	965.2	997.9	1033.9
51°	996.0	964.1	937.4	915.9	902.6	900.1	906.3	923.5	949.3	982.4	1018.6
51.5°	980.0	948.7	922.3	900.9	887.5	884.7	891.5	908.9	934.4	967.1	1002.5
52°	963.9	933.8	907.0	885.9	872.5	869.5	876.4	894.0	919.3	952.2	987.0
52.5°	948.4	918.2	891.7	870.6	858.0	855.4	861.3	878.8	904.3	936.6	971.3
53°	932.9	902.7	876.0	855.4	842.9	840.5	846.6	863.6	888.9	920.9	955.8
53.5°	917.3	887.3	860.7	840.5	827.9	825.4	832.4	848.4	874.0	905.6	940.9
54°	901.8	872.1	845.5	825.8	813.3	809.9	816.8	833.2	858.5	890.1	925.1
54.5°	886.1	856.2	830.5	810.7	798.6	796.0	802.8	818.6	843.7	874.7	908.9
55°	870.4	840.5	815.6	796.2	783.8	781.4	787.8	804.1	828.5	859.8	893.4
55.5°	855.3	825.6	800.6	781.3	770.1	767.3	773.8	789.4	813.5	844.5	877.5
56°	839.4	810.3	785.6	766.9	755.4	753.1	759.3	774.5	798.5	829.3	862.4
56.5°	823.6	794.8	771.1	752.6	740.6	738.3	745.1	760.4	784.1	814.1	846.7
57°	808.3	779.9	756.0	738.0	726.7	724.7	730.9	746.4	769.1	798.7	831.3
57.5°	792.2	765.2	741.8	723.4	712.4	710.2	716.1	731.4	754.5	783.5	815.6
58°	777.0	749.9	726.9	709.2	698.9	696.5	702.6	717.2	739.7	768.3	800.4
58.5°	761.4	735.3	712.6	694.9	684.7	682.8	688.7	703.0	725.5	753.7	785.5
59°	746.2	720.4	697.8	681.1	670.6	668.7	674.7	689.1	710.9	738.9	770.1
59.5°	730.9	705.2	683.9	666.8	656.5	654.9	661.5	675.1	696.9	723.9	754.7
60°	715.5	690.8	669.8	652.7	643.5	641.8	647.4	661.0	682.3	709.2	738.9
60.5°	700.4	675.9	655.2	638.8	629.6	627.8	633.6	647.1	668.3	694.5	723.4
61°	684.8	661.3	640.9	625.1	615.9	614.5	619.9	633.5	653.8	679.8	708.7
61.5°	669.8	646.7	627.1	612.0	603.4	601.2	606.9	620.0	640.1	665.2	693.2
62°	654.2	632.2	613.4	598.0	589.4	588.2	593.5	606.6	625.9	650.9	678.1
62.5°	639.7	617.8	599.2	584.5	576.0	575.1	580.3	593.0	612.1	636.5	663.1
63°	624.8	603.6	584.9	570.9	563.1	561.9	567.0	579.4	598.1	621.9	648.1
63.5°	610.1	589.1	571.2	557.6	550.3	549.0	554.2	566.1	584.4	607.9	633.6
64°	594.8	574.8	558.3	544.6	537.3	536.2	541.0	553.0	570.5	593.6	618.4
64.5°	580.1	560.7	544.3	531.3	524.1	523.5	528.3	539.7	557.0	579.2	603.8
65°	565.4	546.7	530.7	518.4	511.7	510.6	515.7	526.9	543.7	565.2	589.0
65.5°	550.7	532.8	517.9	505.7	498.9	498.1	503.1	513.9	530.6	551.1	574.3
66°	536.5	519.0	504.7	492.4	486.0	485.3	489.9	500.7	516.9	537.3	559.5



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	492.4	477.2	464.4	454.6	449.1	448.5	453.0	462.9	477.3	495.7	515.6
68°	478.1	463.8	451.5	441.9	437.0	436.7	440.9	450.4	464.0	482.1	501.7
68.5°	464.1	450.2	438.6	429.7	425.0	424.3	428.7	438.1	451.4	468.7	487.7
69°	449.9	436.7	425.9	417.5	412.9	412.7	416.6	425.7	438.6	455.1	473.6
69.5°	435.8	423.5	413.1	405.0	400.5	400.5	404.5	413.4	425.8	441.5	459.1
70°	422.1	410.3	400.7	392.8	389.0	389.2	392.9	401.1	413.0	428.1	444.9
70.5°	407.6	397.1	388.0	381.1	377.5	377.6	381.3	389.1	400.4	415.1	430.6
71°	394.0	384.0	375.8	369.3	365.9	366.0	369.6	377.2	388.1	401.8	417.2
71.5°	380.5	371.1	363.5	357.4	354.2	354.4	358.2	365.2	375.8	388.9	403.1
72°	366.9	358.5	351.3	345.7	342.9	343.5	346.9	353.7	363.6	376.1	389.7
72.5°	353.2	345.7	339.3	334.2	331.8	332.1	335.6	342.2	351.5	363.2	375.7
73°	340.0	333.2	327.2	322.7	320.4	321.0	324.2	330.6	339.1	350.4	362.9
73.5°	326.7	320.7	315.2	311.3	309.6	309.9	313.3	319.0	327.4	337.8	349.1
74°	313.4	308.2	303.8	300.4	298.5	299.6	302.3	307.9	315.7	325.5	335.8
74.5°	300.4	296.1	292.1	289.4	287.9	288.8	291.7	296.9	304.1	313.0	322.4
75°	287.8	284.2	280.9	278.3	277.2	278.2	280.9	285.7	292.5	300.7	309.9
75.5°	275.3	272.3	269.4	267.6	266.8	267.7	270.2	274.8	281.0	288.6	296.9
76°	262.4	260.5	258.7	256.9	256.2	257.3	259.8	264.2	270.0	276.7	284.2
76.5°	250.1	248.8	247.5	246.4	246.1	247.1	249.6	253.6	258.7	264.8	271.5
77°	238.1	237.4	237.0	236.2	236.0	237.2	239.5	243.1	247.8	253.1	259.2
77.5°	225.9	226.2	226.1	226.2	226.4	227.5	229.8	232.8	237.1	241.7	246.3
78°	214.2	215.5	215.8	216.2	216.9	218.0	219.9	222.9	226.7	230.6	234.5
78.5°	202.9	205.0	205.8	206.4	207.4	208.6	210.4	213.1	216.0	219.4	222.5
79°	191.5	194.1	195.8	197.0	198.0	199.4	201.1	203.5	205.9	208.5	211.0
79.5°	180.7	184.0	186.2	187.8	189.0	190.4	192.3	194.0	196.0	197.9	199.1
80°	170.1	174.5	177.3	179.2	180.8	181.8	183.3	184.7	186.6	187.5	188.1
80.5°	159.5	165.0	168.4	170.8	172.5	173.7	174.9	176.0	177.6	177.6	177.6
81°	148.9	155.4	159.5	162.4	164.3	165.5	166.7	167.7	168.6	168.1	167.2
81.5°	139.1	145.8	150.5	153.9	156.1	157.3	158.5	159.4	159.6	158.5	156.7
82°	129.8	136.7	141.7	145.5	147.8	149.2	150.3	151.0	150.6	148.9	146.2
82.5°	120.4	128.2	133.5	137.5	140.1	141.7	142.6	142.8	141.7	139.7	136.0
83°	111.3	119.6	125.5	129.8	132.6	134.2	135.0	134.9	133.5	130.8	126.6
83.5°	102.7	111.4	117.8	122.2	125.1	126.7	127.5	127.1	125.5	122.2	117.2
84°	94.5	103.5	110.2	115.0	118.0	119.8	120.4	119.8	117.7	113.8	108.4
84.5°	86.6	96.2	103.1	108.0	111.2	112.8	113.4	112.6	110.2	105.8	99.6
85°	79.2	89.0	96.1	101.2	104.6	106.3	106.7	105.6	102.8	98.2	91.5
85.5°	72.1	82.0	89.5	94.8	98.1	99.7	100.0	99.0	95.9	90.9	83.7
86°	65.4	75.4	83.1	88.6	92.0	93.6	94.0	92.6	89.1	83.8	76.3
86.5°	59.0	69.3	77.2	82.6	86.1	87.7	88.0	86.4	82.9	77.1	69.1
87°	53.2	63.5	71.3	77.0	80.6	82.2	82.3	80.5	76.8	70.8	62.5
87.5°	47.8	58.0	66.0	71.7	75.2	76.9	76.8	75.0	71.1	64.9	56.4
88°	42.9	53.0	61.0	66.7	70.2	71.7	71.8	69.8	65.6	59.4	50.7
88.5°	38.3	48.4	56.2	61.9	65.3	66.9	66.8	64.7	60.6	54.2	45.4



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	27.4	36.4	43.8	49.3	52.7	54.2	53.9	51.5	47.1	40.7	32.1
90.5°	24.6	33.2	40.4	45.7	49.1	50.4	50.0	47.7	43.3	36.9	28.6
91°	22.1	30.3	37.2	42.4	45.6	47.0	46.6	44.2	39.9	33.5	25.5
91.5°	20.1	27.8	34.3	39.3	42.5	43.8	43.3	41.0	36.7	30.5	22.8
92°	18.8	25.5	31.8	36.6	39.6	40.9	40.4	38.0	33.8	27.9	20.5
92.5°	17.6	23.6	29.5	34.1	37.0	38.1	37.6	35.3	31.2	25.6	19.1
93°	16.4	21.9	27.6	31.9	34.6	35.7	35.2	33.0	29.0	23.5	17.8
93.5°	15.1	20.5	25.9	29.9	32.6	33.6	33.0	30.9	27.0	21.8	16.4
94°	13.9	19.4	24.4	28.2	30.7	31.7	31.1	29.0	25.3	20.4	15.1
94.5°	13.3	18.5	23.1	26.8	29.1	30.0	29.4	27.3	23.8	19.1	13.7
95°	12.8	17.7	22.1	25.5	27.7	28.5	27.9	25.9	22.5	18.1	13.0
95.5°	12.3	17.0	21.1	24.4	26.4	27.1	26.5	24.6	21.4	17.2	12.5
96°	11.9	16.4	20.2	23.3	25.2	25.9	25.4	23.5	20.4	16.5	12.1
96.5°	11.5	16.0	19.5	22.4	24.2	24.9	24.3	22.6	19.6	15.9	11.6
97°	11.3	15.5	18.9	21.6	23.3	23.9	23.4	21.8	19.0	15.3	11.1
97.5°	11.1	15.0	18.3	20.9	22.5	23.1	22.7	21.1	18.4	14.7	10.6
98°	10.9	14.5	17.7	20.2	21.8	22.3	22.0	20.5	17.9	14.1	10.1
98.5°	10.7	14.1	17.2	19.6	21.2	21.7	21.3	19.9	17.3	13.6	9.8
99°	10.6	13.9	16.8	19.1	20.5	21.1	20.7	19.2	16.7	13.1	9.6
99.5°	10.5	13.7	16.4	18.6	20.0	20.5	20.0	18.6	16.2	12.7	9.5
100°	10.3	13.5	16.1	18.2	19.5	19.9	19.5	18.0	15.7	12.3	9.4
100.5°	10.2	13.3	15.8	17.8	19.0	19.5	18.9	17.5	15.2	12.1	9.3
101°	10.0	13.1	15.6	17.4	18.6	19.0	18.4	17.0	14.8	12.0	9.2
101.5°	9.8	12.9	15.3	17.1	18.2	18.6	18.0	16.6	14.3	11.8	9.0
102°	9.7	12.7	15.1	16.8	17.8	18.2	17.6	16.2	14.1	11.7	8.9
102.5°	9.5	12.6	14.8	16.5	17.5	17.8	17.3	16.0	14.0	11.5	8.7
103°	9.3	12.4	14.5	16.3	17.2	17.6	17.0	15.8	13.8	11.4	8.5
103.5°	9.1	12.2	14.4	16.0	17.0	17.3	16.8	15.6	13.6	11.3	8.2
104°	8.9	12.0	14.2	15.8	16.7	17.1	16.6	15.4	13.5	11.1	8.0
104.5°	8.7	11.7	14.0	15.5	16.5	16.8	16.4	15.2	13.3	10.9	7.8
105°	8.5	11.5	13.7	15.3	16.2	16.6	16.2	15.0	13.2	10.7	7.5
105.5°	8.3	11.2	13.5	15.0	16.0	16.4	16.0	14.8	13.0	10.5	7.3
106°	8.1	11.0	13.2	14.8	15.8	16.2	15.8	14.6	12.8	10.2	7.1
106.5°	7.9	10.8	13.0	14.6	15.5	16.0	15.6	14.4	12.5	9.9	6.9
107°	7.8	10.5	12.7	14.3	15.2	15.7	15.3	14.2	12.3	9.6	6.7
107.5°	7.6	10.3	12.4	14.0	15.0	15.4	15.0	13.9	12.0	9.4	6.6
108°	7.4	10.1	12.1	13.8	14.7	15.1	14.8	13.6	11.7	9.1	6.4
108.5°	7.2	9.9	11.9	13.5	14.4	14.8	14.5	13.3	11.4	8.9	6.2
109°	7.0	9.7	11.7	13.2	14.1	14.5	14.2	13.0	11.0	8.6	6.1
109.5°	6.8	9.5	11.4	12.8	13.8	14.2	13.9	12.6	10.7	8.4	5.9
110°	6.6	9.2	11.1	12.6	13.5	13.9	13.6	12.3	10.5	8.2	5.8
110.5°	6.4	9.0	10.9	12.3	13.1	13.5	13.2	12.0	10.2	8.0	5.6
111°	6.2	8.7	10.7	12.0	12.8	13.2	12.9	11.7	9.9	7.8	5.4



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.5	8.0	10.0	11.2	12.0	12.3	12.0	10.9	9.1	7.3	4.9
113°	5.3	7.8	9.7	10.9	11.7	12.0	11.7	10.6	8.9	7.1	4.7
113.5°	5.1	7.5	9.5	10.7	11.4	11.7	11.4	10.4	8.7	6.9	4.6
114°	4.9	7.3	9.3	10.5	11.2	11.5	11.2	10.1	8.5	6.7	4.4
114.5°	4.8	7.0	9.0	10.2	10.9	11.2	10.9	9.9	8.3	6.6	4.3
115°	4.7	6.8	8.8	10.0	10.7	10.9	10.6	9.6	8.0	6.4	4.2
115.5°	4.5	6.5	8.5	9.8	10.5	10.6	10.4	9.3	7.8	6.1	4.1
116°	4.5	6.3	8.3	9.6	10.2	10.4	10.1	9.1	7.6	5.9	4.0
116.5°	4.4	6.0	8.0	9.3	10.0	10.1	9.8	8.8	7.4	5.7	3.9
117°	4.3	5.8	7.7	9.1	9.8	9.9	9.6	8.5	7.1	5.5	3.8
117.5°	4.3	5.6	7.4	8.8	9.6	9.7	9.3	8.3	6.9	5.3	3.8
118°	4.2	5.4	7.1	8.6	9.3	9.4	9.1	8.1	6.6	5.2	3.7
118.5°	4.1	5.3	6.9	8.3	9.0	9.2	8.8	7.9	6.3	5.0	3.6
119°	4.0	5.1	6.6	8.0	8.8	8.9	8.6	7.6	6.1	4.8	3.4
119.5°	3.8	5.0	6.3	7.7	8.5	8.7	8.3	7.3	5.9	4.7	3.2
120°	3.7	4.8	6.1	7.4	8.2	8.4	8.0	7.0	5.6	4.5	3.1
120.5°	3.5	4.7	5.9	7.1	7.9	8.1	7.7	6.7	5.5	4.4	3.1
121°	3.3	4.6	5.7	6.8	7.6	7.8	7.4	6.5	5.3	4.3	3.0
121.5°	3.3	4.5	5.5	6.5	7.3	7.4	7.1	6.2	5.1	4.2	2.9
122°	3.3	4.5	5.4	6.3	7.0	7.2	6.9	6.0	5.0	4.1	2.9
122.5°	3.4	4.4	5.2	6.1	6.7	6.9	6.6	5.8	4.8	4.0	3.0
123°	3.4	4.3	5.1	5.9	6.5	6.7	6.4	5.7	4.7	3.8	3.0
123.5°	3.5	4.1	5.0	5.7	6.3	6.4	6.2	5.5	4.5	3.6	3.1
124°	3.5	4.0	4.8	5.6	6.1	6.2	6.0	5.3	4.4	3.3	3.2
124.5°	3.6	3.8	4.7	5.4	5.9	6.0	5.8	5.2	4.3	3.2	3.2
125°	3.7	3.6	4.6	5.3	5.7	5.8	5.6	5.1	4.2	3.1	3.3
125.5°	3.7	3.3	4.5	5.2	5.5	5.6	5.5	4.9	4.1	2.9	3.3
126°	3.8	3.2	4.3	5.0	5.4	5.5	5.3	4.8	3.9	2.8	3.4
126.5°	3.9	3.2	4.2	4.9	5.2	5.3	5.2	4.7	3.7	2.8	3.4
127°	4.0	3.3	4.0	4.7	5.1	5.2	5.1	4.6	3.5	2.8	3.4
127.5°	4.0	3.4	3.8	4.6	5.0	5.1	5.0	4.5	3.3	2.8	3.5
128°	4.1	3.4	3.6	4.5	4.9	5.0	4.8	4.3	3.2	2.9	3.5
128.5°	4.2	3.5	3.4	4.3	4.8	4.8	4.7	4.1	3.1	2.9	3.5
129°	4.2	3.5	3.2	4.1	4.6	4.7	4.6	3.8	3.0	3.0	3.5
129.5°	4.3	3.6	3.2	3.9	4.4	4.6	4.4	3.7	2.9	3.1	3.5
130°	4.3	3.6	3.2	3.7	4.2	4.4	4.1	3.5	2.9	3.1	3.5
130.5°	4.4	3.7	3.3	3.5	4.0	4.1	3.9	3.4	3.0	3.2	3.5
131°	4.4	3.8	3.4	3.3	3.8	3.9	3.7	3.2	3.1	3.2	3.6
131.5°	4.4	3.8	3.4	3.2	3.6	3.7	3.5	3.1	3.1	3.3	3.6
132°	4.5	3.9	3.5	3.2	3.4	3.5	3.4	3.1	3.2	3.3	3.6
132.5°	4.6	3.9	3.5	3.3	3.2	3.3	3.2	3.1	3.2	3.4	3.7
133°	4.6	4.0	3.6	3.3	3.2	3.1	3.1	3.2	3.3	3.5	3.8
133.5°	4.7	4.1	3.6	3.4	3.2	3.1	3.2	3.2	3.3	3.6	4.0



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	5.0	4.3	3.8	3.5	3.3	3.3	3.3	3.4	3.5	3.8	4.3
135.5°	5.1	4.3	3.8	3.6	3.4	3.3	3.4	3.4	3.6	3.9	4.3
136°	5.1	4.4	3.9	3.6	3.4	3.4	3.4	3.5	3.6	3.9	4.4
136.5°	5.2	4.5	3.9	3.7	3.5	3.4	3.5	3.5	3.7	4.0	4.4
137°	5.2	4.6	4.0	3.7	3.5	3.5	3.5	3.6	3.8	4.1	4.4
137.5°	5.2	4.6	4.1	3.8	3.6	3.5	3.6	3.6	3.8	4.2	4.3
138°	5.1	4.7	4.2	3.8	3.6	3.6	3.6	3.7	3.9	4.3	4.2
138.5°	5.0	4.8	4.2	3.9	3.7	3.6	3.7	3.7	4.0	4.4	4.2
139°	5.0	4.9	4.3	3.9	3.8	3.7	3.8	3.8	4.1	4.5	4.1
139.5°	5.0	4.9	4.4	4.0	3.8	3.7	3.8	3.9	4.1	4.6	4.1
140°	5.0	5.0	4.4	4.0	3.9	3.8	3.9	3.9	4.2	4.6	4.1
140.5°	5.0	5.1	4.6	4.1	3.9	3.8	3.9	4.0	4.3	4.6	4.1
141°	4.9	5.1	4.7	4.2	4.0	3.9	4.0	4.1	4.5	4.7	4.1
141.5°	4.9	5.2	4.8	4.3	4.0	4.0	4.0	4.2	4.6	4.7	4.1
142°	4.9	5.2	4.9	4.4	4.1	4.0	4.1	4.3	4.7	4.6	4.1
142.5°	5.0	5.0	4.9	4.5	4.2	4.1	4.2	4.4	4.8	4.5	4.1
143°	5.0	4.9	5.0	4.6	4.2	4.2	4.3	4.6	4.8	4.4	4.1
143.5°	5.0	4.9	5.0	4.8	4.4	4.3	4.4	4.7	4.8	4.4	4.1
144°	5.0	4.8	5.1	4.9	4.5	4.4	4.6	4.8	4.9	4.4	4.1
144.5°	5.0	4.8	5.1	5.0	4.7	4.6	4.8	4.9	4.8	4.4	4.1
145°	4.9	4.8	5.1	5.0	4.8	4.8	4.9	4.9	4.7	4.3	4.1
145.5°	4.9	4.8	4.9	5.0	4.9	4.9	4.9	4.9	4.6	4.3	4.1
146°	4.9	4.8	4.8	5.1	4.9	4.9	5.0	5.0	4.5	4.3	4.1
146.5°	5.0	4.8	4.8	5.1	5.0	5.0	5.0	5.0	4.5	4.3	4.0
147°	5.0	4.8	4.8	5.0	5.1	5.1	5.1	4.9	4.5	4.3	4.0
147.5°	5.0	4.8	4.8	4.8	5.1	5.2	5.1	4.7	4.5	4.3	4.0
148°	5.0	4.8	4.8	4.8	5.0	5.1	5.0	4.7	4.5	4.3	4.0
148.5°	5.0	4.8	4.8	4.8	4.8	4.9	4.9	4.7	4.5	4.3	4.0
149°	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.5	4.2	4.0
149.5°	5.0	4.8	4.8	4.8	4.7	4.8	4.8	4.6	4.5	4.2	4.0
150°	5.0	4.8	4.8	4.8	4.7	4.8	4.8	4.6	4.5	4.2	4.0
150.5°	4.9	4.8	4.8	4.7	4.7	4.8	4.7	4.6	4.5	4.1	4.0
151°	4.8	4.8	4.7	4.8	4.7	4.7	4.7	4.6	4.4	4.1	4.0
151.5°	5.0	4.7	4.7	4.8	4.7	4.7	4.7	4.6	4.4	4.1	4.0
152°	5.1	4.7	4.7	4.8	4.7	4.7	4.7	4.6	4.4	4.1	4.0
152.5°	5.2	4.7	4.7	4.7	4.7	4.8	4.8	4.6	4.4	4.1	4.1
153°	5.2	4.7	4.7	4.7	4.7	4.8	4.8	4.6	4.4	4.1	4.1
153.5°	5.2	4.7	4.6	4.7	4.7	4.8	4.7	4.6	4.4	4.1	4.1
154°	5.2	4.8	4.6	4.7	4.7	4.7	4.7	4.6	4.3	4.2	4.1
154.5°	5.3	4.8	4.6	4.6	4.7	4.7	4.6	4.6	4.4	4.2	4.2
155°	5.3	4.9	4.6	4.6	4.6	4.7	4.6	4.5	4.4	4.2	4.2
155.5°	5.1	5.0	4.7	4.6	4.6	4.7	4.6	4.5	4.4	4.2	4.2
156°	5.0	5.0	4.7	4.6	4.6	4.6	4.6	4.6	4.4	4.3	4.2



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	5.3	5.0	4.9	4.7	4.6	4.6	4.6	4.6	4.6	4.5	4.4
158°	5.1	4.9	4.9	4.7	4.6	4.7	4.7	4.6	4.6	4.5	4.4
158.5°	4.8	4.8	4.9	4.8	4.7	4.7	4.7	4.7	4.7	4.6	4.5
159°	4.7	4.8	5.0	4.8	4.7	4.7	4.7	4.8	4.7	4.7	4.5
159.5°	4.6	4.8	5.1	4.9	4.8	4.8	4.8	4.8	4.8	4.7	4.6
160°	4.6	4.8	5.1	5.0	4.8	4.8	4.8	4.8	4.9	4.8	4.6
160.5°	4.6	4.8	5.1	5.0	4.9	4.9	4.9	4.9	5.0	4.9	4.7
161°	4.6	4.8	5.0	5.1	4.9	4.9	4.9	5.0	5.0	4.9	4.7
161.5°	4.6	4.7	4.9	5.2	5.0	5.0	5.0	5.1	5.1	5.0	4.7
162°	4.5	4.6	4.9	5.2	5.1	5.1	5.1	5.2	5.2	5.0	4.8
162.5°	4.5	4.6	4.8	5.2	5.2	5.1	5.2	5.2	5.2	5.1	4.7
163°	4.4	4.6	4.8	5.2	5.2	5.2	5.2	5.3	5.3	5.1	4.7
163.5°	4.4	4.6	4.7	5.1	5.3	5.3	5.3	5.3	5.3	5.1	4.8
164°	4.4	4.5	4.6	5.0	5.3	5.3	5.4	5.4	5.3	5.2	4.8
164.5°	4.3	4.5	4.6	4.9	5.4	5.4	5.4	5.4	5.4	5.3	4.2
165°	4.3	4.5	4.5	4.9	5.4	5.4	5.5	5.5	5.4	4.9	4.0
165.5°	4.2	4.5	4.5	4.8	5.3	5.5	5.5	5.5	5.3	4.2	4.5
166°	4.2	4.5	4.5	4.6	5.3	5.5	5.5	5.5	5.3	4.3	4.8
166.5°	4.2	4.6	4.5	4.5	5.2	5.5	5.5	5.6	5.3	4.9	4.2
167°	4.1	4.7	4.6	4.5	5.1	5.5	5.5	5.6	4.7	4.7	3.7
167.5°	4.1	4.9	4.7	4.4	5.0	5.5	5.5	5.6	4.2	4.0	4.2
168°	4.2	4.8	4.8	4.4	4.9	5.5	5.5	5.5	4.7	3.7	4.7
168.5°	4.4	4.9	5.1	4.5	4.6	5.4	5.4	5.4	5.1	4.7	4.4
169°	4.4	4.8	5.1	4.5	4.4	5.4	5.4	5.3	4.0	4.8	4.3
169.5°	4.3	4.8	5.0	4.6	4.3	5.3	5.4	5.0	3.6	4.7	4.5
170°	4.4	4.7	4.9	4.8	4.3	5.1	5.3	4.3	4.8	4.7	4.5
170.5°	4.4	4.6	4.8	4.9	4.3	5.0	5.3	4.1	4.8	4.8	4.5
171°	4.4	4.6	4.7	4.9	4.3	4.9	5.2	4.2	4.6	4.7	4.5
171.5°	4.4	4.5	4.6	4.8	4.3	4.7	5.1	3.6	4.8	4.6	4.4
172°	4.3	4.4	4.6	4.7	4.5	4.2	5.0	3.8	4.8	4.6	4.4
172.5°	4.3	4.4	4.5	4.6	4.5	4.1	4.8	4.4	4.6	4.5	4.3
173°	4.2	4.3	4.4	4.5	4.5	4.0	4.6	4.4	4.5	4.4	4.2
173.5°	4.2	4.3	4.4	4.5	4.5	3.9	3.9	4.5	4.4	4.2	4.1
174°	4.2	4.2	4.3	4.4	4.5	3.9	3.4	4.4	4.2	4.1	4.0
174.5°	4.1	4.2	4.2	4.3	4.4	3.8	3.1	4.2	4.2	4.0	4.0
175°	4.1	4.1	4.2	4.2	4.3	3.7	3.7	4.2	4.0	4.0	3.9
175.5°	4.1	4.1	4.1	4.2	4.2	3.8	4.1	4.1	3.9	3.9	3.9
176°	4.0	4.1	4.1	4.1	4.1	3.6	4.0	3.9	3.9	3.9	3.9
176.5°	4.0	4.0	4.1	4.0	4.0	3.6	3.9	3.8	3.9	3.9	3.9
177°	4.0	3.9	3.9	3.8	3.7	3.9	3.9	3.9	3.9	3.9	3.8
177.5°	3.8	3.8	3.8	3.8	3.8	1.5	3.8	3.8	3.8	3.8	3.8
178°	3.8	3.8	3.8	3.9	3.9	2.3	3.9	3.8	3.8	3.8	3.8
178.5°	3.9	3.9	3.9	3.8	3.5	3.0	3.6	3.8	3.9	3.8	3.8



TEST NUMBER: P563541
CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2022.1	2022.1	2022.1	2022.1
0.5°	2021.6	2021.6	2021.6	2021.6
1°	2021.3	2021.3	2021.3	2021.3
1.5°	2020.8	2021.0	2021.0	2021.4
2°	2019.1	2020.0	2020.8	2021.0
2.5°	2017.4	2017.9	2019.5	2020.3
3°	2015.9	2017.1	2018.7	2018.8
3.5°	2015.0	2016.8	2017.3	2017.5
4°	2013.6	2015.7	2015.8	2016.6
4.5°	2010.8	2013.1	2013.6	2014.5
5°	2009.1	2010.6	2012.3	2013.2
5.5°	2007.7	2008.4	2010.4	2011.9
6°	2004.4	2007.1	2008.2	2010.2
6.5°	2001.4	2003.2	2005.9	2008.1
7°	1999.9	2000.5	2004.2	2006.1
7.5°	1996.2	1998.6	1999.8	2003.3
8°	1992.2	1995.0	1998.3	2001.2
8.5°	1988.2	1991.3	1995.3	1997.4
9°	1984.9	1987.7	1991.6	1995.3
9.5°	1981.0	1984.1	1987.9	1991.6
10°	1976.2	1979.4	1984.5	1987.6
10.5°	1972.3	1976.4	1979.8	1983.9
11°	1967.5	1972.9	1977.0	1979.8
11.5°	1962.8	1968.1	1973.2	1975.5
12°	1958.2	1963.3	1969.1	1971.4
12.5°	1952.5	1958.3	1964.1	1967.5
13°	1946.9	1953.0	1959.3	1962.8
13.5°	1941.6	1947.7	1954.7	1957.6
14°	1935.8	1942.6	1949.0	1952.7
14.5°	1929.7	1937.8	1943.5	1947.8
15°	1923.5	1931.4	1937.9	1942.2
15.5°	1916.8	1924.9	1932.2	1937.0
16°	1910.1	1918.8	1927.0	1930.8
16.5°	1903.2	1912.1	1921.3	1923.8
17°	1896.7	1905.5	1914.4	1917.4
17.5°	1889.5	1899.0	1906.9	1912.1
18°	1882.5	1892.4	1900.4	1906.2
18.5°	1875.2	1885.6	1893.8	1898.8
19°	1867.2	1878.1	1886.9	1891.7
19.5°	1858.3	1870.6	1879.6	1884.6
20°	1850.3	1862.7	1871.8	1877.6
20.5°	1842.6	1854.3	1864.4	1870.4
21°	1834.8	1846.0	1856.2	1863.2



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	1807.1	1820.8	1832.4	1838.4
23°	1797.8	1812.1	1823.4	1831.1
23.5°	1788.5	1802.7	1814.4	1821.9
24°	1778.9	1793.8	1805.7	1813.1
24.5°	1768.9	1784.4	1796.9	1804.8
25°	1759.2	1774.5	1787.8	1795.9
25.5°	1748.3	1765.2	1777.8	1786.3
26°	1739.0	1755.1	1768.4	1776.9
26.5°	1728.2	1744.9	1758.6	1767.1
27°	1717.6	1734.9	1748.3	1757.3
27.5°	1706.3	1725.2	1738.2	1747.6
28°	1695.5	1713.8	1728.3	1737.0
28.5°	1684.1	1703.0	1717.7	1726.8
29°	1672.1	1691.9	1707.1	1717.3
29.5°	1661.6	1680.5	1696.1	1706.7
30°	1650.0	1669.9	1685.1	1695.5
30.5°	1637.7	1658.1	1674.2	1684.9
31°	1625.2	1646.9	1663.0	1674.1
31.5°	1613.8	1634.4	1651.4	1662.7
32°	1601.1	1622.6	1639.4	1650.4
32.5°	1588.9	1610.5	1627.7	1638.8
33°	1576.7	1599.0	1615.7	1627.5
33.5°	1564.5	1587.3	1603.6	1615.5
34°	1551.0	1574.5	1591.5	1603.0
34.5°	1538.4	1561.3	1578.7	1590.2
35°	1525.6	1549.1	1566.7	1578.5
35.5°	1512.1	1536.0	1554.0	1566.3
36°	1498.7	1523.2	1541.0	1553.5
36.5°	1485.4	1509.8	1529.2	1540.4
37°	1472.1	1496.4	1516.4	1527.7
37.5°	1458.8	1483.2	1503.6	1515.3
38°	1444.9	1469.9	1489.4	1502.9
38.5°	1429.7	1456.5	1475.3	1488.9
39°	1415.2	1442.5	1461.2	1474.4
39.5°	1401.2	1428.3	1447.4	1460.3
40°	1387.1	1414.4	1434.3	1446.5
40.5°	1373.0	1400.5	1420.8	1433.4
41°	1358.2	1385.9	1406.3	1419.6
41.5°	1343.8	1371.1	1392.4	1405.0
42°	1328.5	1356.8	1378.0	1391.3
42.5°	1313.8	1342.4	1363.3	1377.3
43°	1298.9	1327.5	1348.6	1362.7
43.5°	1284.0	1312.5	1334.4	1347.5



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	1238.4	1268.4	1290.0	1303.2
45.5°	1223.6	1253.1	1274.5	1288.8
46°	1208.1	1238.1	1259.5	1273.3
46.5°	1192.8	1222.8	1244.1	1257.5
47°	1178.0	1207.5	1229.1	1242.1
47.5°	1162.1	1192.3	1213.8	1227.3
48°	1146.8	1176.1	1198.0	1212.4
48.5°	1130.8	1161.1	1182.9	1196.5
49°	1115.4	1145.7	1167.5	1181.6
49.5°	1100.1	1129.6	1151.6	1165.8
50°	1084.0	1113.9	1135.7	1150.1
50.5°	1068.4	1098.5	1119.9	1133.9
51°	1053.4	1082.3	1104.5	1118.4
51.5°	1037.6	1067.1	1089.0	1102.4
52°	1021.4	1051.0	1072.4	1087.0
52.5°	1005.6	1035.0	1057.0	1070.6
53°	989.7	1019.2	1040.6	1054.7
53.5°	974.4	1003.2	1024.8	1038.7
54°	958.7	987.2	1008.8	1022.7
54.5°	943.1	971.4	992.7	1006.4
55°	927.6	955.6	976.7	989.8
55.5°	910.7	940.0	960.4	974.1
56°	895.0	922.9	943.9	957.5
56.5°	879.6	907.6	928.4	941.5
57°	864.1	891.5	912.0	925.8
57.5°	847.8	875.6	896.1	909.0
58°	832.1	858.8	879.2	892.4
58.5°	816.3	843.0	863.1	876.5
59°	801.2	826.8	846.9	859.9
59.5°	784.9	810.8	830.9	843.6
60°	769.2	794.6	814.7	826.9
60.5°	753.1	778.8	798.2	810.7
61°	738.0	762.8	781.6	794.3
61.5°	722.0	746.6	765.3	778.0
62°	706.4	730.7	749.0	761.5
62.5°	690.8	715.0	732.6	745.1
63°	675.6	698.8	716.3	728.6
63.5°	659.8	682.7	700.2	712.4
64°	643.9	666.8	683.7	695.7
64.5°	628.6	650.8	667.9	678.9
65°	613.7	634.6	651.6	662.2
65.5°	597.8	619.1	635.1	645.4
66°	583.1	603.6	618.8	628.6



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	537.2	556.1	570.7	579.7
68°	521.9	540.0	554.2	563.6
68.5°	506.7	524.6	537.8	547.1
69°	492.2	508.5	522.1	530.7
69.5°	477.2	493.0	505.9	514.6
70°	462.1	477.7	490.2	498.2
70.5°	447.2	462.3	474.1	482.0
71°	432.6	446.7	458.4	466.1
71.5°	417.9	431.3	442.3	449.9
72°	403.3	416.1	426.4	434.1
72.5°	388.7	401.1	410.4	418.2
73°	374.4	385.7	395.0	401.9
73.5°	360.5	371.0	379.6	385.7
74°	346.3	355.8	364.1	370.3
74.5°	331.9	340.9	348.7	354.7
75°	318.0	325.8	333.1	339.1
75.5°	304.3	311.5	317.7	323.3
76°	291.0	296.9	303.3	308.0
76.5°	277.3	282.8	287.9	292.8
77°	264.0	268.4	273.3	277.8
77.5°	250.6	254.6	258.5	262.5
78°	237.7	240.3	244.1	248.0
78.5°	225.0	227.0	229.4	233.1
79°	212.4	213.6	215.4	218.5
79.5°	200.2	200.5	202.0	204.2
80°	188.6	188.1	188.9	190.7
80.5°	177.1	175.7	175.8	176.8
81°	165.6	163.3	162.6	163.2
81.5°	154.0	150.8	149.5	150.0
82°	142.6	138.4	136.4	137.0
82.5°	131.8	127.0	124.1	123.7
83°	121.1	115.9	112.6	112.0
83.5°	111.0	104.8	100.8	100.2
84°	101.2	94.2	89.7	89.0
84.5°	92.1	84.3	79.1	77.9
85°	83.1	74.8	69.2	67.8
85.5°	74.9	65.8	59.5	58.9
86°	67.0	57.4	50.5	50.1
86.5°	59.6	49.6	42.1	41.3
87°	52.5	42.1	34.5	32.5
87.5°	46.2	35.5	29.1	24.9
88°	40.4	29.7	23.6	18.1
88.5°	35.1	25.8	18.2	12.1



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	22.5	14.0	5.2	3.9
90.5°	20.2	10.3	3.5	2.1
91°	18.0	8.4	2.5	0.4
91.5°	15.8	7.1	2.0	0.3
92°	13.7	6.1	1.8	0.3
92.5°	11.5	5.5	1.6	0.2
93°	10.5	5.1	1.4	0.2
93.5°	9.7	4.8	1.4	0.3
94°	9.1	4.4	1.3	0.3
94.5°	8.6	4.1	1.3	0.4
95°	8.2	4.0	1.3	0.5
95.5°	7.7	3.9	1.3	0.5
96°	7.3	3.9	1.2	0.6
96.5°	7.0	3.9	1.2	0.7
97°	6.8	3.8	1.2	0.8
97.5°	6.7	3.6	1.1	0.8
98°	6.6	3.5	1.1	0.9
98.5°	6.6	3.3	1.1	1.0
99°	6.6	3.3	1.1	1.0
99.5°	6.5	3.2	1.2	1.2
100°	6.4	3.1	1.3	1.3
100.5°	6.2	3.1	1.4	1.4
101°	6.0	3.1	1.5	1.5
101.5°	5.8	3.1	1.5	1.7
102°	5.6	3.0	1.6	1.8
102.5°	5.4	3.0	1.7	1.9
103°	5.2	2.8	1.8	2.0
103.5°	5.0	2.7	1.9	2.0
104°	4.9	2.6	2.0	2.1
104.5°	4.8	2.5	2.0	2.1
105°	4.7	2.4	2.1	2.2
105.5°	4.6	2.4	2.1	2.1
106°	4.5	2.3	2.3	2.1
106.5°	4.4	2.3	2.7	2.1
107°	4.2	2.1	2.8	2.1
107.5°	4.1	2.1	2.6	2.1
108°	3.9	2.1	2.6	2.1
108.5°	3.7	2.0	2.7	2.1
109°	3.6	2.1	2.6	2.2
109.5°	3.4	2.1	2.5	2.2
110°	3.3	2.1	2.5	2.2
110.5°	3.2	2.1	2.5	2.2
111°	3.1	2.2	2.5	2.2



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	2.9	2.3	2.5	2.2
113°	2.9	2.3	2.6	2.3
113.5°	2.7	2.4	2.6	2.3
114°	2.6	2.5	2.6	2.3
114.5°	2.6	2.5	2.7	2.4
115°	2.5	2.6	2.7	2.4
115.5°	2.5	2.6	2.7	2.4
116°	2.5	2.7	2.7	2.4
116.5°	2.5	2.7	2.7	2.4
117°	2.6	2.9	2.7	2.4
117.5°	2.6	3.1	2.7	2.4
118°	2.7	3.2	2.7	2.4
118.5°	2.8	3.3	2.7	2.4
119°	2.8	3.4	2.7	2.5
119.5°	2.9	3.4	2.8	2.5
120°	2.9	3.4	2.8	2.5
120.5°	3.0	3.4	2.9	2.5
121°	3.0	3.4	2.9	2.6
121.5°	3.0	3.3	2.9	2.6
122°	3.1	3.3	2.9	2.6
122.5°	3.1	3.3	2.9	2.6
123°	3.1	3.2	2.9	2.7
123.5°	3.1	3.1	3.0	2.7
124°	3.2	3.0	3.0	2.7
124.5°	3.3	3.1	3.0	2.7
125°	3.4	3.1	3.1	2.7
125.5°	3.6	3.3	3.1	2.8
126°	3.7	3.4	3.1	2.8
126.5°	3.9	3.5	3.2	2.8
127°	4.1	3.6	3.2	2.9
127.5°	4.2	3.6	3.2	2.9
128°	4.3	3.6	3.2	2.9
128.5°	4.3	3.7	3.3	2.9
129°	4.2	3.7	3.3	3.0
129.5°	4.2	3.7	3.4	3.0
130°	4.2	3.7	3.4	3.0
130.5°	4.1	3.6	3.3	3.0
131°	4.1	3.6	3.0	3.0
131.5°	4.0	3.6	3.0	3.0
132°	3.9	3.6	3.1	3.1
132.5°	3.8	3.6	3.2	3.1
133°	3.7	3.6	3.4	3.1
133.5°	3.7	3.6	3.5	3.1



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	3.7	3.5	3.3	3.2
135.5°	3.7	3.5	3.3	3.1
136°	3.8	3.5	3.3	3.1
136.5°	3.8	3.5	3.4	3.1
137°	3.8	3.5	3.4	3.1
137.5°	3.8	3.5	3.3	3.1
138°	3.9	3.5	3.2	3.1
138.5°	3.9	3.6	3.2	3.1
139°	3.9	3.6	3.2	3.2
139.5°	3.9	3.7	3.3	3.2
140°	3.9	3.7	3.4	3.2
140.5°	3.9	3.7	3.4	3.2
141°	3.9	3.7	3.4	3.2
141.5°	3.9	3.7	3.4	3.2
142°	3.9	3.8	3.4	3.2
142.5°	3.9	3.8	3.4	3.2
143°	3.9	3.8	3.4	3.2
143.5°	3.9	3.8	3.4	3.2
144°	3.9	3.8	3.4	3.2
144.5°	3.9	3.8	3.4	3.2
145°	3.9	3.9	3.4	3.2
145.5°	3.9	3.9	3.3	3.2
146°	3.9	3.9	3.3	3.2
146.5°	4.0	3.9	3.3	3.2
147°	4.0	3.9	3.3	3.2
147.5°	4.0	3.9	3.3	3.2
148°	4.0	4.0	3.4	3.2
148.5°	4.0	4.0	3.4	3.2
149°	4.0	4.0	3.4	3.1
149.5°	4.1	4.0	3.4	3.1
150°	4.1	4.0	3.4	3.1
150.5°	4.1	4.0	3.3	3.1
151°	4.1	4.0	3.2	3.0
151.5°	4.1	4.0	3.2	2.8
152°	4.2	4.0	3.2	2.8
152.5°	4.2	3.9	3.3	2.9
153°	4.2	3.9	3.1	2.8
153.5°	4.2	3.8	3.0	2.6
154°	4.2	3.8	2.8	2.4
154.5°	4.2	3.7	2.8	2.3
155°	4.2	3.7	2.8	2.3
155.5°	4.2	3.5	2.6	2.4
156°	4.2	3.4	2.5	2.3



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	4.3	3.3	2.4	2.1
158°	4.3	3.3	2.3	2.1
158.5°	4.3	3.3	2.3	2.1
159°	4.3	3.2	2.3	2.1
159.5°	4.3	3.2	2.3	2.1
160°	4.4	3.2	2.3	2.1
160.5°	4.4	3.2	2.3	2.1
161°	4.4	3.2	2.3	2.2
161.5°	4.4	3.2	2.2	2.2
162°	4.4	3.2	2.2	2.2
162.5°	4.4	3.1	2.2	2.2
163°	4.3	3.0	2.2	2.2
163.5°	4.4	2.8	2.2	2.2
164°	4.4	2.8	2.2	2.2
164.5°	3.9	2.8	2.2	2.2
165°	3.7	2.7	2.2	2.2
165.5°	4.1	2.5	2.2	2.2
166°	4.1	2.4	2.2	2.3
166.5°	3.6	2.4	2.2	2.3
167°	3.3	2.4	2.2	2.3
167.5°	3.9	2.7	2.2	2.3
168°	4.1	3.0	2.3	2.3
168.5°	3.8	3.0	2.4	2.3
169°	3.8	3.0	2.5	2.4
169.5°	3.9	3.2	2.5	2.4
170°	3.8	3.2	2.9	2.5
170.5°	3.8	3.2	3.1	2.8
171°	4.0	3.6	3.1	3.2
171.5°	4.0	3.7	3.3	3.2
172°	4.0	3.7	3.5	3.2
172.5°	4.0	3.7	3.6	3.4
173°	4.0	3.8	3.6	3.4
173.5°	3.9	3.8	3.6	3.4
174°	3.9	3.8	3.7	3.5
174.5°	3.9	3.8	3.8	3.6
175°	3.9	3.8	3.8	3.7
175.5°	3.8	3.8	3.8	3.8
176°	3.8	3.8	3.8	3.8
176.5°	3.8	3.8	3.8	3.8
177°	3.8	3.8	3.8	3.8
177.5°	3.8	3.8	3.8	3.8
178°	3.8	3.8	3.8	3.8
178.5°	3.8	3.8	3.8	3.8



TEST NUMBER: P563541

CATALOG NUMBER: 4NWS3C3-UNV-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	3.5	3.5	3.5	3.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







21.5°	1855.4	1859.8	1859.4	1856.0	1849.3	1841.2	1832.6	1825.5	1819.4	1816.4	1815.2
22°	1846.6	1851.5	1851.4	1847.4	1840.7	1832.3	1822.9	1815.6	1810.1	1806.0	1805.1



44°	1332.9	1337.8	1331.6	1317.4	1294.6	1266.5	1238.0	1213.5	1195.5	1186.6	1187.8
44.5°	1318.1	1322.3	1317.1	1302.1	1279.3	1250.7	1222.7	1197.8	1179.8	1171.1	1171.1



66.5°	612.1	617.9	616.4	607.8	593.9	574.6	556.9	541.2	529.9	523.3	521.5
67°	595.7	601.0	600.5	592.6	578.7	560.6	543.8	528.2	516.8	510.6	509.4



89°	7.5	14.7	28.1	43.4	57.8	67.7	75.8	80.4	82.2	81.5	78.5
89.5°	5.6	10.4	23.1	37.8	52.0	62.7	70.7	74.8	76.6	76.1	73.1



111.5°	2.2	2.2	1.8	1.6	2.2	3.4	4.9	6.3	7.3	7.6	7.3
112°	2.2	2.2	1.9	1.7	2.1	3.2	4.6	6.0	7.0	7.3	7.0



134°	3.1	3.2	3.1	3.8	3.9	3.4	3.4	3.5	3.5	3.6	3.8
134.5°	3.1	3.2	3.2	3.8	4.0	3.5	3.5	3.5	3.6	3.7	3.9



156.5°	2.1	3.3	3.9	3.8	3.8	3.8	4.0	4.4	4.7	4.8	4.9
157°	2.1	3.3	3.9	3.8	3.8	3.8	4.0	4.3	4.6	4.7	4.8



179°	3.8	3.7	3.5	3.2	3.0	2.9	3.0	3.3	3.6	3.8	3.7
179.5°	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.4	3.5	3.6	3.5





21.5°	1817.0	1821.7	1826.0	1831.4	1836.4	1838.7	1838.8	1836.4	1830.8	1822.2	1811.3
22°	1806.9	1811.3	1816.8	1822.7	1828.2	1830.1	1830.4	1828.2	1821.9	1813.1	1801.9



44°	1196.5	1214.3	1237.3	1258.9	1278.2	1292.1	1297.5	1295.2	1285.8	1268.5	1243.2
44.5°	1181.1	1199.2	1221.7	1242.9	1262.8	1276.8	1281.5	1280.5	1271.2	1253.2	1227.5



66.5°	525.3	533.3	544.2	555.4	565.1	571.6	570.2	569.1	562.1	552.1	537.5
67°	512.8	520.0	530.4	540.6	549.4	554.7	554.3	552.8	546.1	536.3	522.5



89°	73.3	65.8	56.5	43.1	29.0	15.5	6.3	1.0	5.1	14.3	23.6
89.5°	68.4	61.1	51.2	38.4	24.8	12.4	4.9	0.9	3.8	10.8	21.3



111.5°	6.4	5.0	3.7	2.8	2.8	3.4	4.2	3.8	4.4	3.3	3.8
112°	6.1	4.8	3.6	2.7	2.8	3.5	4.2	3.8	4.5	3.3	3.7



134°	4.1	4.6	5.3	6.5	6.6	5.2	4.6	4.3	5.4	5.6	5.2
134.5°	4.1	4.7	5.4	6.6	6.5	5.2	4.6	4.3	5.3	5.6	5.1



156.5°	4.8	4.5	4.4	4.5	4.5	4.3	4.1	3.6	3.8	4.3	4.7
157°	4.7	4.5	4.4	4.5	4.4	4.2	3.9	3.6	3.7	4.2	4.7



179°	3.5	3.4	3.2	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.7
179.5°	3.5	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3





21.5°	1799.5	1786.8	1776.4	1767.7	1763.5	1762.5	1765.0	1772.7	1783.7	1797.8	1812.0
22°	1790.0	1776.2	1765.1	1757.5	1752.9	1750.8	1754.4	1761.2	1773.0	1787.2	1802.2



44°	1214.8	1183.6	1155.9	1133.7	1120.2	1116.7	1123.7	1141.2	1168.0	1200.3	1236.3
44.5°	1199.7	1167.4	1140.0	1118.1	1104.0	1100.4	1107.8	1125.8	1152.4	1185.1	1220.2



66.5°	521.5	504.8	490.5	479.7	473.5	472.9	477.7	488.1	503.5	523.3	545.1
67°	506.7	490.9	477.5	467.4	461.5	460.9	465.0	475.7	490.4	509.2	530.7



89°	34.3	44.0	51.7	57.3	60.9	62.4	62.2	59.9	55.7	49.2	40.5
89.5°	30.6	40.0	47.6	53.1	56.7	58.2	57.8	55.6	51.2	44.7	36.1



111.5°	6.0	8.5	10.5	11.7	12.6	12.9	12.6	11.4	9.6	7.6	5.2
112°	5.7	8.3	10.2	11.5	12.3	12.6	12.3	11.1	9.4	7.5	5.1



134°	4.8	4.2	3.7	3.4	3.2	3.2	3.2	3.3	3.4	3.7	4.1
134.5°	4.9	4.2	3.7	3.5	3.3	3.2	3.3	3.3	3.4	3.7	4.2



156.5°	5.1	5.1	4.7	4.6	4.6	4.6	4.6	4.6	4.5	4.3	4.3
157°	5.3	5.0	4.8	4.7	4.6	4.6	4.6	4.6	4.5	4.4	4.3



179°	3.7	3.6	3.5	3.3	3.3	3.4	3.5	3.7	3.8	3.8	3.8
179.5°	3.3	3.3	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7





21.5°	1825.7	1838.3	1848.1	1855.4
22°	1816.0	1830.4	1840.7	1846.6



44°	1269.1	1298.3	1319.1	1332.9
44.5°	1254.8	1282.9	1304.7	1318.1



66.5°	567.4	587.6	602.8	612.1
67°	552.2	571.9	587.0	595.7



89°	30.4	21.9	12.8	7.5
89.5°	26.1	18.0	7.6	5.6



111.5°	3.0	2.2	2.5	2.2
112°	3.0	2.2	2.5	2.2



134°	3.7	3.5	3.4	3.1
134.5°	3.7	3.5	3.3	3.1



156.5°	4.3	3.4	2.4	2.1
157°	4.3	3.4	2.4	2.1



179°	3.8	3.8	3.8	3.8
179.5°	3.6	3.6	3.5	3.5



(END OF REPORT)