

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: P563558

Luminaire Tested: **4NWS3C3MS-UNV-HI-3500K**

Issue Date: 7/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563558  
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-3500K  
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND HI LUMEN SETTING  
Light Source: -  
Ballast/Driver:

**Summary**

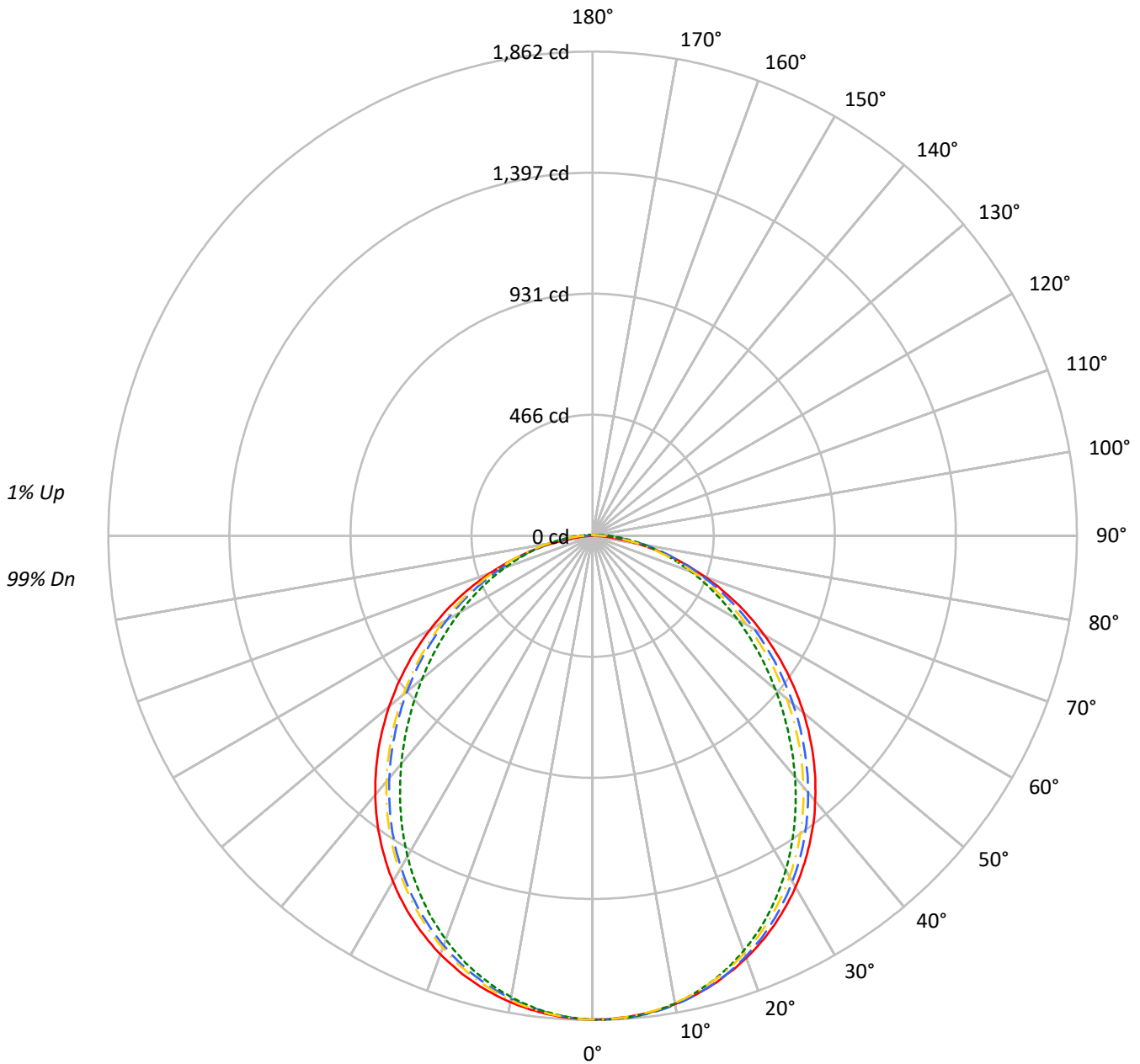
Lumens per Lamp: N/A  
Luminaire Lumens: 4851.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.08')  
CIE Type: Direct

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									
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°	11310	11310	11310	11310
5°	11282	11140	11263	11057
10°	11247	10916	11199	10766
15°	11184	10630	11107	10411
20°	11091	10281	10993	10002
25°	10977	9876	10840	9530
30°	10820	9403	10649	9014
35°	10623	8874	10418	8445
40°	10380	8299	10138	7846
45°	10099	7695	9808	7227
50°	9765	7081	9422	6612
55°	9374	6493	8976	6010
60°	8929	5905	8460	5420
65°	8390	5309	7838	4820
70°	7707	4711	7045	4201
75°	6801	4089	5972	3536
80°	5496	3419	4472	2838
85°	3518	2732	2261	2170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.6	3.6
10°-20°	498.4	10.3
20°-30°	740.2	15.3
30°-40°	862.8	17.8
40°-50°	854.2	17.6
50°-60°	733.6	15.1
60°-70°	536.9	11.1
70°-80°	304.8	6.3
80°-90°	101.5	2.1
90°-100°	18.4	0.4
100°-110°	7.8	0.2
110°-120°	4.6	0.1
120°-130°	3.3	0.1
130°-140°	2.9	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°	1414.2	29.2
0°-40°	2277.1	46.9
0°-60°	3864.8	79.7
0°-90°	4808.0	99.1
90°-120°	30.8	0.6
90°-150°	39.7	0.8
90°-180°	43.0	0.9
0°-180°	4851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1861	1861	1861	1861	1861	
5°	1852	1856	1849	1842	1852	176
15°	1787	1774	1775	1738	1787	504
25°	1652	1601	1632	1545	1652	761
35°	1452	1353	1424	1288	1452	908
45°	1199	1063	1165	998	1199	925
55°	911	777	872	719	911	814
65°	609	518	569	470	609	603
75°	312	296	274	256	312	330
85°	62	123	40	98	62	74
90°	4	65	1	50	4	3
95°	0	31	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	3	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°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
0.5°	1860.1	1860.2	1860.3	1860.5	1860.7	1860.8	1860.9	1861.0	1861.0	1861.1	1861.0
1°	1859.9	1860.1	1860.5	1860.8	1861.1	1861.2	1861.2	1861.2	1860.6	1860.0	1860.4
1.5°	1860.0	1860.7	1860.8	1860.2	1859.9	1860.1	1860.8	1861.2	1860.6	1861.5	1861.6
2°	1859.6	1860.1	1860.2	1860.2	1860.5	1861.1	1861.5	1861.5	1860.5	1860.6	1861.0
2.5°	1858.9	1859.4	1859.5	1859.6	1859.7	1859.1	1859.3	1859.2	1861.1	1859.9	1859.2
3°	1857.6	1858.0	1858.8	1859.2	1859.7	1859.8	1860.2	1860.5	1859.9	1859.7	1859.7
3.5°	1856.4	1857.3	1858.1	1859.5	1858.9	1859.3	1859.4	1858.9	1859.4	1858.2	1857.7
4°	1855.6	1857.2	1856.7	1858.4	1858.0	1858.3	1858.2	1857.9	1856.9	1858.9	1857.2
4.5°	1853.6	1855.1	1855.6	1856.7	1857.7	1857.5	1856.7	1857.6	1856.9	1857.0	1855.3
5°	1852.4	1853.9	1854.4	1855.1	1856.2	1856.1	1854.5	1855.1	1855.6	1855.6	1854.0
5.5°	1851.2	1852.6	1853.3	1853.6	1854.3	1853.7	1853.1	1853.1	1853.9	1853.5	1851.7
6°	1849.7	1851.0	1851.3	1852.2	1853.1	1852.2	1851.8	1851.3	1851.5	1850.9	1849.1
6.5°	1847.7	1849.3	1849.6	1850.2	1851.2	1850.4	1850.6	1849.3	1849.3	1849.2	1847.2
7°	1845.9	1846.7	1848.3	1847.9	1848.0	1846.9	1848.5	1846.8	1846.5	1846.4	1844.9
7.5°	1843.3	1844.3	1845.6	1846.6	1846.4	1845.5	1845.0	1844.4	1843.6	1842.2	1842.3
8°	1841.4	1841.4	1843.5	1843.8	1843.7	1843.0	1842.3	1841.8	1841.1	1840.1	1839.6
8.5°	1837.9	1838.3	1841.1	1840.6	1841.1	1840.6	1839.5	1838.7	1837.5	1836.8	1835.5
9°	1835.9	1837.6	1837.8	1838.5	1838.5	1837.8	1835.9	1835.5	1834.1	1834.7	1832.0
9.5°	1832.6	1834.2	1835.5	1835.1	1835.5	1833.8	1831.7	1831.7	1830.8	1829.0	1828.4
10°	1828.9	1831.0	1832.1	1832.2	1831.9	1830.6	1828.5	1827.3	1826.7	1827.0	1825.2
10.5°	1825.5	1827.3	1829.0	1829.1	1828.3	1826.9	1824.5	1823.2	1822.5	1822.2	1820.7
11°	1821.7	1822.9	1825.1	1825.2	1824.5	1823.6	1819.9	1819.4	1819.1	1817.8	1816.4
11.5°	1817.7	1820.2	1821.1	1821.6	1820.0	1819.4	1815.9	1815.5	1814.2	1813.3	1811.8
12°	1814.0	1816.2	1817.9	1818.0	1816.2	1814.8	1812.2	1810.7	1808.2	1808.6	1806.1
12.5°	1810.4	1812.1	1813.8	1813.9	1811.4	1810.5	1807.7	1805.8	1803.7	1803.1	1801.7
13°	1806.1	1808.5	1809.7	1809.1	1806.4	1806.0	1802.5	1800.9	1798.9	1797.0	1796.3
13.5°	1801.3	1804.2	1805.4	1804.9	1802.1	1801.1	1796.5	1795.1	1793.3	1791.2	1789.6
14°	1796.8	1799.5	1800.6	1800.8	1797.2	1795.1	1791.8	1789.5	1787.6	1785.2	1784.4
14.5°	1792.3	1794.8	1795.9	1795.9	1791.7	1790.2	1787.0	1783.6	1780.7	1780.0	1777.6
15°	1787.1	1790.1	1790.8	1790.3	1787.1	1784.9	1780.8	1777.7	1775.0	1774.0	1772.5
15.5°	1782.4	1785.2	1785.3	1784.5	1782.1	1779.5	1774.1	1772.1	1768.5	1767.7	1765.4
16°	1776.6	1780.1	1780.5	1779.3	1776.0	1773.1	1768.3	1765.4	1762.6	1760.3	1758.3
16.5°	1770.2	1774.6	1775.5	1774.1	1770.1	1766.9	1761.7	1758.3	1755.5	1752.7	1752.1
17°	1764.3	1769.2	1769.2	1768.5	1764.8	1760.7	1755.4	1751.2	1748.0	1746.5	1745.6
17.5°	1759.4	1763.0	1763.5	1762.1	1758.5	1753.8	1747.5	1744.2	1740.2	1739.4	1737.4
18°	1754.0	1756.8	1757.7	1755.9	1751.7	1747.3	1741.1	1736.9	1733.0	1730.9	1730.0
18.5°	1747.2	1751.6	1752.0	1750.0	1745.3	1740.5	1733.8	1729.1	1725.9	1723.1	1722.1
19°	1740.6	1745.5	1745.9	1743.2	1738.8	1733.2	1727.0	1721.4	1717.4	1714.9	1714.5
19.5°	1734.1	1738.4	1738.7	1736.4	1731.5	1725.4	1718.8	1713.7	1708.9	1707.7	1704.8
20°	1727.6	1731.6	1731.6	1729.4	1724.4	1717.9	1710.4	1705.2	1700.9	1697.8	1697.0
20.5°	1721.0	1725.2	1725.0	1722.4	1717.2	1710.6	1702.3	1696.5	1692.5	1689.4	1687.9
21°	1714.4	1718.5	1718.0	1715.1	1709.0	1702.5	1694.7	1688.0	1684.0	1680.1	1679.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1691.6	1695.9	1696.2	1692.1	1685.8	1677.8	1668.6	1661.3	1655.9	1652.8	1650.9
23°	1684.9	1688.5	1688.1	1684.2	1677.7	1669.4	1659.8	1652.0	1646.1	1644.0	1641.7
23.5°	1676.4	1680.8	1680.4	1676.1	1669.3	1660.2	1650.8	1642.1	1636.1	1633.1	1631.5
24°	1668.3	1672.9	1672.7	1667.6	1660.4	1651.4	1640.6	1632.2	1626.0	1623.0	1621.7
24.5°	1660.7	1664.7	1664.1	1659.4	1651.2	1642.0	1632.3	1622.9	1615.9	1612.5	1610.8
25°	1652.5	1656.8	1655.5	1650.8	1642.7	1632.4	1622.3	1612.7	1605.4	1601.3	1600.5
25.5°	1643.6	1648.0	1647.1	1641.9	1634.4	1623.0	1612.0	1602.2	1595.1	1591.1	1589.4
26°	1635.0	1638.6	1638.3	1632.2	1625.0	1612.9	1601.5	1591.1	1583.5	1579.1	1578.9
26.5°	1625.9	1630.3	1628.4	1623.8	1614.5	1603.0	1590.8	1580.6	1572.8	1568.7	1567.1
27°	1616.9	1622.0	1619.5	1613.9	1604.7	1593.1	1580.4	1569.7	1561.7	1556.6	1556.5
27.5°	1608.0	1612.7	1611.0	1604.0	1594.9	1582.3	1570.8	1558.5	1549.4	1546.0	1544.8
28°	1598.3	1603.4	1601.8	1594.8	1585.0	1572.0	1558.4	1547.6	1538.4	1533.9	1532.5
28.5°	1588.9	1593.8	1592.2	1585.4	1575.3	1561.8	1547.7	1536.2	1525.9	1520.9	1520.3
29°	1580.2	1584.5	1582.5	1575.2	1564.3	1550.7	1536.8	1524.3	1515.4	1510.1	1508.7
29.5°	1570.4	1575.0	1572.4	1565.6	1553.9	1539.8	1526.0	1512.5	1501.9	1497.5	1497.5
30°	1560.1	1564.2	1562.4	1554.5	1543.2	1528.5	1513.6	1500.6	1490.2	1484.7	1485.2
30.5°	1550.3	1554.2	1552.2	1544.8	1532.4	1516.8	1502.0	1488.5	1476.6	1472.5	1471.7
31°	1540.4	1544.7	1541.6	1534.4	1522.0	1506.0	1489.7	1476.0	1465.4	1460.1	1458.7
31.5°	1529.9	1534.5	1531.4	1523.1	1511.0	1494.7	1477.7	1463.2	1452.5	1446.8	1445.5
32°	1518.7	1523.1	1520.5	1511.7	1499.1	1482.4	1465.8	1451.1	1439.6	1433.4	1433.0
32.5°	1507.9	1512.3	1509.7	1500.3	1487.5	1470.4	1453.6	1438.6	1427.6	1420.3	1420.1
33°	1497.6	1501.9	1498.6	1490.0	1476.0	1458.9	1441.5	1425.4	1414.1	1407.5	1407.2
33.5°	1486.5	1490.7	1487.7	1478.9	1464.7	1446.8	1428.9	1412.9	1400.3	1393.8	1393.4
34°	1475.0	1480.0	1476.4	1466.9	1453.0	1434.0	1415.5	1399.4	1387.0	1380.0	1380.0
34.5°	1463.2	1468.5	1465.1	1455.4	1441.1	1421.7	1402.6	1385.3	1373.1	1366.8	1366.0
35°	1452.4	1457.2	1454.0	1443.9	1428.6	1409.2	1389.9	1372.1	1359.0	1352.9	1352.7
35.5°	1441.2	1445.5	1442.8	1432.2	1416.1	1396.2	1376.7	1358.8	1345.3	1339.2	1338.8
36°	1429.5	1434.6	1430.1	1420.3	1404.1	1383.5	1363.5	1345.3	1331.3	1325.4	1324.8
36.5°	1417.4	1422.1	1418.4	1407.6	1392.1	1371.0	1350.3	1331.4	1317.6	1310.5	1311.3
37°	1405.7	1409.9	1406.4	1395.6	1379.2	1358.2	1337.1	1318.1	1302.8	1296.6	1297.0
37.5°	1394.3	1397.7	1394.2	1383.5	1366.4	1345.0	1323.2	1304.0	1289.3	1282.4	1282.6
38°	1382.9	1385.6	1382.5	1370.5	1353.6	1331.6	1309.4	1290.0	1275.4	1267.8	1267.6
38.5°	1370.0	1373.5	1369.0	1358.0	1340.4	1318.2	1295.7	1275.6	1261.2	1254.3	1253.7
39°	1356.7	1361.1	1356.8	1345.2	1327.4	1305.0	1282.2	1261.6	1247.2	1239.3	1238.8
39.5°	1343.6	1349.0	1344.3	1332.5	1313.9	1290.9	1268.4	1247.4	1232.1	1225.3	1225.2
40°	1330.9	1336.0	1331.8	1318.9	1300.8	1277.0	1253.8	1233.3	1217.6	1210.5	1210.6
40.5°	1319.0	1323.0	1319.1	1306.3	1287.3	1263.6	1239.7	1218.7	1202.8	1195.8	1195.3
41°	1306.2	1310.0	1306.0	1293.0	1273.9	1249.5	1225.7	1204.5	1188.4	1181.3	1180.4
41.5°	1292.8	1296.8	1292.4	1280.1	1260.3	1235.8	1211.1	1189.6	1173.0	1166.1	1166.0
42°	1280.2	1284.4	1279.6	1266.1	1247.1	1222.2	1197.7	1175.4	1159.1	1152.2	1151.1
42.5°	1267.4	1271.2	1266.2	1253.4	1232.5	1207.9	1183.2	1161.1	1144.5	1137.0	1136.4
43°	1253.9	1257.7	1252.9	1238.9	1218.7	1193.6	1168.7	1146.2	1129.7	1122.6	1121.9
43.5°	1239.9	1244.5	1239.2	1225.9	1205.6	1179.6	1154.1	1131.6	1114.9	1107.4	1107.4



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CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	1199.2	1203.4	1198.1	1183.9	1163.6	1136.7	1110.8	1087.6	1070.6	1063.0	1062.7
45.5°	1185.9	1189.7	1184.1	1169.8	1148.7	1122.3	1096.3	1072.9	1056.3	1047.9	1048.0
46°	1171.6	1175.9	1170.5	1155.9	1134.5	1107.7	1081.3	1058.3	1042.1	1032.6	1033.6
46.5°	1157.0	1161.5	1156.2	1141.7	1120.2	1093.2	1066.4	1043.7	1026.4	1018.8	1019.0
47°	1142.9	1147.8	1142.9	1127.6	1106.2	1078.7	1051.9	1028.7	1011.6	1004.1	1003.8
47.5°	1129.3	1133.4	1128.5	1114.1	1092.2	1064.3	1037.8	1013.6	997.0	989.4	989.0
48°	1115.6	1119.5	1114.1	1100.0	1078.1	1049.7	1023.2	999.3	982.8	974.2	975.0
48.5°	1100.9	1104.7	1099.4	1085.3	1063.3	1035.3	1008.9	984.8	967.6	960.1	960.4
49°	1087.2	1091.6	1085.0	1070.2	1048.8	1020.9	994.0	970.4	953.5	945.3	945.2
49.5°	1072.7	1076.6	1071.8	1056.4	1034.0	1006.2	979.7	955.8	938.6	930.8	931.2
50°	1058.2	1062.7	1056.9	1042.3	1019.3	991.5	965.4	941.2	924.9	916.1	916.5
50.5°	1043.4	1048.0	1042.4	1028.1	1005.2	977.2	950.6	926.6	909.7	901.9	901.7
51°	1029.1	1033.5	1027.5	1012.6	990.8	962.6	936.2	912.7	896.3	887.4	887.0
51.5°	1014.4	1018.9	1013.1	998.6	976.3	948.2	921.3	898.1	881.2	874.2	873.4
52°	1000.2	1004.6	999.0	983.9	961.5	934.1	907.4	884.2	867.4	859.0	859.2
52.5°	985.1	989.4	983.5	969.2	946.8	919.0	892.9	869.9	853.6	845.5	845.3
53°	970.5	975.0	969.3	954.4	932.1	904.5	878.4	855.7	839.7	830.9	830.6
53.5°	955.7	959.8	954.3	939.9	917.4	890.2	864.3	841.7	824.5	817.6	816.6
54°	941.0	944.9	939.8	925.5	903.1	875.7	850.1	827.4	811.2	803.1	803.3
54.5°	926.0	930.5	924.7	910.6	889.0	861.1	835.3	813.2	796.9	789.3	789.3
55°	910.8	915.7	910.4	896.0	873.8	846.5	821.2	799.1	783.5	776.7	775.1
55.5°	896.4	900.7	895.1	881.5	859.8	832.6	807.1	784.9	769.3	762.3	761.1
56°	881.1	885.5	880.7	866.6	845.3	818.7	793.6	771.0	756.0	748.4	747.9
56.5°	866.3	870.9	865.8	852.0	830.9	804.2	779.1	757.6	742.6	735.1	734.5
57°	851.9	855.7	850.7	837.1	815.8	789.9	765.1	743.9	728.6	721.8	721.0
57.5°	836.4	841.4	835.3	822.7	801.9	776.0	751.3	730.0	715.5	708.3	707.4
58°	821.2	825.8	821.4	807.3	786.5	761.9	737.7	716.9	702.1	694.5	694.7
58.5°	806.5	810.9	805.9	793.1	772.5	747.4	723.6	703.1	688.9	681.6	681.1
59°	791.2	796.4	791.1	778.4	758.3	733.4	709.8	689.4	676.1	669.2	668.0
59.5°	776.3	780.7	776.1	763.8	743.9	719.4	696.4	676.8	663.1	656.6	654.3
60°	760.9	765.7	761.6	748.9	729.3	705.4	682.6	663.8	650.2	643.5	641.5
60.5°	745.9	750.3	746.4	734.4	715.8	691.7	669.8	651.0	637.1	630.3	628.6
61°	730.8	735.0	731.4	720.0	701.6	678.2	652.8	637.7	623.9	617.2	615.7
61.5°	715.9	720.7	716.2	704.5	686.7	664.1	639.2	624.2	610.8	604.0	602.8
62°	700.7	705.7	702.0	690.4	672.0	649.8	626.7	611.0	597.7	590.9	589.9
62.5°	685.6	690.1	687.2	676.2	658.3	636.2	614.2	597.9	584.7	578.0	577.0
63°	670.4	675.3	672.0	661.6	644.1	622.6	601.7	584.7	572.3	565.9	564.8
63.5°	655.5	659.8	657.1	646.4	629.9	609.0	589.3	572.1	560.0	553.7	552.7
64°	640.2	644.6	641.6	633.4	615.6	595.3	575.9	559.7	547.8	541.5	540.3
64.5°	624.7	629.3	626.7	628.6	601.7	581.7	563.3	547.1	535.5	529.2	527.9
65°	609.3	614.0	611.8	611.2	588.7	568.1	550.6	534.7	523.3	517.5	516.0
65.5°	593.9	598.8	597.0	593.8	574.5	554.7	537.5	522.3	511.3	505.2	503.8
66°	578.4	583.5	582.1	576.4	560.3	541.6	524.8	510.0	499.5	493.3	492.2





TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	533.4	538.2	537.6	530.9	518.8	502.8	487.4	474.4	464.1	458.3	456.8
68°	518.6	523.4	522.8	516.8	505.2	489.8	475.0	462.3	452.8	447.1	445.5
68.5°	503.4	508.4	508.6	502.1	491.5	476.8	462.9	450.4	441.4	436.0	433.4
69°	488.3	493.6	493.9	488.9	478.2	463.9	450.8	438.8	429.4	424.5	422.6
69.5°	473.5	479.2	479.3	474.8	465.1	451.3	438.7	427.0	418.1	412.9	411.2
70°	458.4	464.1	464.9	460.9	451.8	438.8	426.7	415.3	407.0	401.6	399.9
70.5°	443.5	449.2	450.5	446.8	438.9	426.6	414.9	404.2	396.1	390.9	388.7
71°	428.8	434.1	436.2	433.3	425.4	414.0	403.0	392.8	385.1	380.1	378.0
71.5°	414.0	419.8	421.4	419.2	412.5	401.7	391.4	381.7	373.8	369.1	367.2
72°	399.4	405.1	407.5	405.3	399.5	389.4	379.5	370.5	362.9	358.1	356.2
72.5°	384.8	390.3	393.4	391.9	386.2	377.0	368.2	359.1	352.2	347.9	345.5
73°	369.8	375.9	379.6	378.7	373.8	364.9	356.5	348.2	341.6	337.1	334.6
73.5°	354.9	361.5	365.2	365.2	361.0	353.6	345.1	337.3	330.9	326.6	324.2
74°	340.7	346.7	351.3	352.1	348.4	341.5	334.0	326.5	320.6	316.2	313.8
74.5°	326.3	332.8	337.4	338.5	335.9	329.4	323.0	315.9	310.2	306.1	304.0
75°	312.0	318.5	323.7	325.3	323.5	317.8	311.9	305.5	300.0	295.9	293.5
75.5°	297.5	304.6	309.8	312.3	311.3	306.3	300.9	294.9	289.6	286.0	283.5
76°	283.4	290.3	296.3	299.6	298.7	294.6	290.2	284.7	279.8	276.1	273.3
76.5°	269.4	276.7	282.8	286.6	286.8	283.5	279.2	274.3	269.9	266.4	263.5
77°	255.6	262.6	269.6	273.8	275.0	272.4	268.8	264.1	259.9	256.3	253.6
77.5°	241.5	249.1	256.4	261.2	263.1	261.4	258.3	254.2	250.1	247.0	244.1
78°	228.2	235.6	243.1	249.1	251.4	250.6	248.0	244.3	240.9	237.6	234.8
78.5°	214.5	222.4	230.2	236.8	239.9	239.7	237.7	234.7	231.6	228.3	225.5
79°	201.1	209.2	217.7	224.7	228.5	228.9	227.8	225.0	222.1	219.1	216.3
79.5°	187.9	195.8	205.1	212.7	217.3	218.4	218.0	215.7	213.1	210.3	207.3
80°	175.5	183.2	192.5	201.1	206.3	208.1	208.1	206.4	204.1	201.5	198.5
80.5°	162.6	170.7	180.6	189.5	195.5	198.0	198.5	197.3	195.4	192.6	189.8
81°	150.2	158.5	168.7	178.1	184.8	188.1	189.4	188.4	186.8	184.2	181.4
81.5°	138.0	146.3	157.0	166.9	174.4	178.2	180.2	179.9	178.5	176.1	173.1
82°	126.1	134.3	145.4	156.1	164.1	168.8	171.2	171.4	170.2	167.9	164.9
82.5°	113.8	122.8	134.5	145.5	154.0	159.6	162.3	162.9	162.0	159.8	156.8
83°	103.1	111.7	123.4	135.2	144.3	150.5	153.8	154.7	154.1	152.3	149.2
83.5°	92.2	100.9	112.8	125.2	135.0	141.4	145.5	146.8	146.7	144.6	141.6
84°	81.9	90.6	102.6	115.3	125.8	132.9	137.4	139.2	138.9	137.2	134.3
84.5°	71.7	80.4	93.0	105.8	116.8	124.6	129.3	131.6	131.7	130.0	127.2
85°	62.4	70.7	83.4	96.8	108.4	116.5	121.7	124.2	124.6	123.1	120.1
85.5°	54.2	62.1	74.5	88.2	100.0	108.7	114.3	117.1	117.6	116.2	113.4
86°	46.1	54.2	65.9	80.0	92.3	101.3	107.2	110.2	110.9	109.6	106.7
86.5°	38.0	46.3	58.9	72.1	84.6	94.1	100.2	103.7	104.5	103.4	100.5
87°	29.9	38.5	51.9	64.1	77.5	87.1	93.6	97.3	98.3	97.5	94.4
87.5°	23.0	30.6	45.0	58.0	70.5	80.5	87.2	91.1	92.3	91.4	88.6
88°	16.6	24.1	38.1	52.0	63.8	74.2	81.2	85.1	86.6	85.7	82.9
88.5°	11.2	18.4	31.2	46.0	58.5	68.0	75.2	79.5	81.0	80.2	77.5



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	3.5	6.5	17.2	30.2	42.6	53.0	60.6	64.2	65.9	65.1	63.3
90.5°	2.0	5.3	13.9	26.1	38.1	48.3	56.1	60.1	61.9	61.3	59.2
91°	0.4	4.1	11.2	22.3	33.9	43.8	51.6	56.0	57.9	57.4	55.2
91.5°	0.3	3.0	9.1	19.3	30.2	39.7	47.1	51.9	53.9	53.5	51.2
92°	0.3	1.8	7.4	16.6	26.8	36.0	43.0	47.8	49.9	49.6	47.2
92.5°	0.2	1.4	6.5	14.3	23.8	32.6	39.5	43.9	46.0	45.8	43.7
93°	0.2	1.1	5.8	12.4	21.2	29.6	36.2	40.6	42.6	42.5	40.4
93.5°	0.2	0.9	5.0	10.8	18.9	26.8	33.2	37.4	39.5	39.3	37.5
94°	0.3	0.8	4.2	9.6	16.9	24.3	30.4	34.5	36.6	36.6	34.8
94.5°	0.3	0.7	3.8	8.6	15.1	22.0	27.8	31.8	33.9	33.9	32.2
95°	0.4	0.6	3.5	7.9	13.7	20.0	25.5	29.4	31.4	31.4	29.8
95.5°	0.5	0.6	3.1	7.3	12.5	18.3	23.5	27.2	29.1	29.2	27.7
96°	0.6	0.6	2.8	6.8	11.5	16.8	21.7	25.1	27.0	27.1	25.7
96.5°	0.6	0.7	2.5	6.4	10.7	15.6	20.0	23.3	25.1	25.3	24.0
97°	0.7	0.8	2.3	5.9	10.1	14.4	18.6	21.7	23.4	23.6	22.4
97.5°	0.8	0.8	2.1	5.5	9.6	13.5	17.4	20.3	21.9	22.1	21.0
98°	0.8	0.8	1.9	5.1	9.1	12.8	16.3	19.0	20.6	20.8	19.8
98.5°	0.9	0.9	1.7	4.8	8.6	12.2	15.4	18.0	19.4	19.6	18.7
99°	1.0	0.9	1.6	4.4	8.1	11.7	14.7	17.0	18.4	18.6	17.8
99.5°	1.1	1.0	1.5	4.2	7.6	11.2	14.0	16.2	17.5	17.8	17.0
100°	1.2	1.1	1.4	3.9	7.2	10.6	13.5	15.6	16.8	17.0	16.3
100.5°	1.3	1.2	1.4	3.6	6.9	10.1	12.9	15.0	16.1	16.4	15.7
101°	1.4	1.2	1.4	3.3	6.5	9.6	12.4	14.4	15.5	15.8	15.2
101.5°	1.5	1.3	1.4	3.1	6.1	9.2	11.8	13.8	15.0	15.2	14.6
102°	1.6	1.4	1.4	2.9	5.8	8.8	11.3	13.3	14.5	14.7	14.1
102.5°	1.7	1.5	1.4	2.7	5.4	8.3	10.8	12.8	13.9	14.2	13.6
103°	1.8	1.5	1.4	2.5	5.1	7.9	10.3	12.2	13.4	13.6	13.1
103.5°	1.9	1.6	1.3	2.3	4.7	7.5	9.9	11.8	12.9	13.1	12.6
104°	1.9	1.6	1.3	2.2	4.4	7.1	9.5	11.3	12.4	12.6	12.1
104.5°	1.9	1.7	1.2	2.0	4.2	6.8	9.0	10.8	11.9	12.2	11.7
105°	2.0	1.9	1.2	1.9	3.9	6.4	8.6	10.4	11.5	11.7	11.2
105.5°	2.0	2.1	1.3	1.8	3.7	6.1	8.3	9.9	11.0	11.3	10.8
106°	1.9	2.1	1.3	1.8	3.4	5.7	7.9	9.5	10.6	10.9	10.4
106.5°	1.9	2.0	1.3	1.7	3.2	5.4	7.5	9.1	10.2	10.5	10.0
107°	1.9	1.9	1.3	1.7	3.0	5.1	7.2	8.7	9.8	10.1	9.6
107.5°	1.9	1.9	1.4	1.6	2.9	4.8	6.8	8.3	9.4	9.7	9.3
108°	1.9	1.9	1.4	1.6	2.7	4.6	6.5	8.0	9.0	9.3	8.9
108.5°	2.0	2.0	1.4	1.6	2.5	4.3	6.2	7.6	8.7	9.0	8.6
109°	2.0	2.0	1.5	1.5	2.4	4.1	5.8	7.3	8.3	8.6	8.2
109.5°	2.0	2.1	1.5	1.5	2.3	3.9	5.5	7.0	8.0	8.3	7.9
110°	2.0	2.1	1.5	1.4	2.2	3.7	5.2	6.7	7.7	7.9	7.6
110.5°	2.0	2.0	1.6	1.4	2.1	3.5	5.0	6.4	7.3	7.6	7.3
111°	2.0	2.0	1.6	1.5	2.1	3.3	4.7	6.1	7.0	7.3	7.0



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	2.0	2.0	1.8	1.6	1.9	2.8	4.0	5.3	6.1	6.4	6.2
113°	2.1	2.0	1.8	1.6	1.9	2.7	3.8	5.0	5.8	6.1	5.9
113.5°	2.1	2.0	1.9	1.6	1.9	2.5	3.6	4.7	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	2.3	3.1	4.1	4.8	5.1	4.9
115.5°	2.2	2.1	2.1	1.8	1.7	2.3	3.0	3.9	4.6	4.9	4.7
116°	2.2	2.2	2.2	1.8	1.7	2.2	2.9	3.7	4.4	4.7	4.5
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	1.8	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	3.8	4.1	4.0
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	2.0	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	1.9	2.3	2.7	3.2	3.4	3.4
121°	2.3	2.5	2.5	2.2	2.0	2.0	2.2	2.7	3.1	3.3	3.3
121.5°	2.4	2.5	2.5	2.2	2.0	2.0	2.1	2.6	3.0	3.2	3.3
122°	2.4	2.5	2.6	2.3	2.1	2.0	2.1	2.6	2.9	3.2	3.2
122.5°	2.4	2.6	2.6	2.3	2.1	2.1	2.1	2.5	2.9	3.1	3.1
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	2.1	2.1	2.3	2.8	3.0	3.0
124°	2.5	2.6	2.7	2.5	2.3	2.2	2.1	2.2	2.7	2.9	2.9
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	2.1	2.2	2.5	2.8	2.8
125.5°	2.5	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	2.3	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	2.5	2.7	2.9
127.5°	2.7	2.7	2.8	3.1	2.5	2.4	2.4	2.4	2.6	2.8	2.9
128°	2.7	2.7	2.8	3.2	2.6	2.4	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	2.7	3.2	2.7	2.5	2.5	2.6	2.7	2.9	3.0
129.5°	2.7	2.7	2.7	3.2	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	2.6	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	3.0	3.1
131°	2.8	2.8	2.7	3.2	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	3.2
132°	2.8	2.8	2.8	3.3	3.1	2.9	2.8	2.9	3.0	3.2	3.3
132.5°	2.8	2.8	2.8	3.4	3.2	2.9	2.9	3.0	3.1	3.2	3.3
133°	2.8	2.9	2.8	3.4	3.3	3.0	3.0	3.1	3.1	3.3	3.4
133.5°	2.8	2.9	2.9	3.5	3.4	3.1	3.0	3.1	3.2	3.3	3.4



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	2.9	3.0	3.0	3.6	3.7	3.3	3.3	3.3	3.3	3.4	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	3.4	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	3.1	3.4	3.8	3.7	3.6	3.6	3.6	3.7	3.9
138°	2.9	3.1	3.2	3.4	3.8	3.9	3.6	3.6	3.7	3.8	3.9
138.5°	2.9	3.2	3.2	3.3	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	4.1	3.7	3.8	3.8	3.9	4.1
139.5°	2.9	3.2	3.2	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	3.9	3.9	3.9	4.0	4.3
141°	3.0	3.3	3.3	3.3	4.0	4.3	4.0	3.9	4.0	4.1	4.3
141.5°	2.9	3.3	3.3	3.3	4.0	4.3	4.2	4.0	4.0	4.2	4.4
142°	2.9	3.4	3.3	3.2	4.0	4.4	4.3	4.1	4.1	4.2	4.5
142.5°	2.9	3.4	3.3	3.2	4.0	4.4	4.4	4.1	4.1	4.3	4.5
143°	3.0	3.4	3.4	3.2	3.9	4.4	4.5	4.2	4.2	4.4	4.6
143.5°	3.0	3.4	3.4	3.2	3.9	4.3	4.6	4.3	4.3	4.5	4.7
144°	3.0	3.4	3.4	3.2	3.8	4.3	4.6	4.4	4.4	4.5	4.8
144.5°	3.0	3.4	3.4	3.2	3.8	4.3	4.6	4.6	4.4	4.6	4.9
145°	3.0	3.4	3.4	3.2	3.8	4.3	4.6	4.7	4.5	4.7	5.0
145.5°	2.9	3.4	3.4	3.2	3.7	4.4	4.6	4.8	4.7	4.7	5.1
146°	2.9	3.4	3.5	3.2	3.7	4.3	4.6	4.9	4.8	4.9	5.2
146.5°	2.9	3.4	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	4.8	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	3.4	3.5	3.2	3.5	4.2	4.5	4.8	5.1	5.3	5.5
149°	2.9	3.4	3.5	3.2	3.4	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	5.4
150.5°	2.9	3.4	3.5	3.2	3.4	4.0	4.5	4.7	5.0	5.2	5.4
151°	2.7	3.4	3.5	3.3	3.3	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	3.2	3.5	3.3	3.3	3.8	4.4	4.7	5.0	5.1	5.3
152.5°	2.6	3.2	3.5	3.3	3.3	3.7	4.3	4.7	4.9	5.1	5.3
153°	2.6	3.2	3.5	3.3	3.3	3.7	4.2	4.6	4.9	5.1	5.2
153.5°	2.4	3.2	3.5	3.4	3.3	3.6	4.1	4.6	4.8	5.0	5.1
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°	2.1	3.0	3.5	3.4	3.3	3.5	4.0	4.4	4.7	4.8	4.9
155°	2.1	3.0	3.5	3.4	3.4	3.5	3.9	4.3	4.6	4.8	4.8
155.5°	2.2	3.0	3.5	3.5	3.4	3.5	3.8	4.2	4.5	4.7	4.7
156°	2.1	3.1	3.5	3.5	3.4	3.5	3.8	4.1	4.4	4.6	4.6



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	1.9	3.0	3.5	3.5	3.5	3.5	3.6	3.9	4.1	4.3	4.3
158°	1.9	3.0	3.5	3.5	3.6	3.5	3.6	3.8	4.0	4.2	4.2
158.5°	1.9	3.1	3.5	3.5	3.6	3.6	3.6	3.8	3.9	4.1	4.1
159°	2.0	3.0	3.5	3.6	3.6	3.6	3.6	3.7	3.9	4.0	4.0
159.5°	2.0	2.9	3.5	3.6	3.7	3.6	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	3.4	3.6	3.7	3.7	3.6	3.7	3.7	3.8	3.9
161°	2.0	2.9	3.4	3.6	3.7	3.7	3.7	3.7	3.7	3.8	3.8
161.5°	2.0	2.9	3.4	3.6	3.7	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	3.7	3.7	3.7	3.8	3.8
162.5°	2.0	2.8	3.4	3.6	3.8	3.8	3.8	3.7	3.7	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	3.8
163.5°	2.0	2.7	3.4	3.6	3.8	3.9	3.8	3.8	3.8	3.8	3.9
164°	2.0	2.6	3.3	3.6	3.8	3.9	3.9	3.8	3.8	3.8	3.9
164.5°	2.0	2.4	3.4	3.6	3.8	3.9	3.9	3.9	3.8	3.8	3.9
165°	2.0	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	3.9	3.9	3.9	3.9	3.9	3.9
166°	2.1	2.5	3.3	3.4	3.8	3.9	4.0	3.9	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	3.9	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	3.9	4.0	4.0	4.0	4.0	4.0
168°	2.1	2.6	3.1	3.2	3.7	3.9	4.0	4.1	4.1	4.0	4.1
168.5°	2.1	2.4	3.3	3.2	3.8	4.0	4.0	4.1	4.1	4.1	4.1
169°	2.2	2.3	3.1	3.3	3.7	4.0	4.0	4.1	4.1	4.1	4.1
169.5°	2.2	2.5	2.7	3.4	3.3	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	2.6	3.1	3.1	3.7	3.8	4.0	4.1	4.1	4.1	4.1
171°	2.9	2.7	3.1	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	3.1	3.3	3.9	4.0	4.1	4.1	4.1
172°	3.0	3.1	3.0	3.1	3.2	3.2	3.8	4.0	4.0	4.0	4.0
172.5°	3.1	3.1	3.1	3.1	3.3	3.6	3.7	3.9	4.0	4.0	4.0
173°	3.1	3.1	3.2	3.2	3.2	3.5	3.7	3.8	3.9	3.9	3.9
173.5°	3.1	3.2	3.2	3.2	3.2	3.2	3.7	3.8	3.8	3.9	3.9
174°	3.2	3.2	3.3	3.1	3.3	3.4	3.5	3.8	3.8	3.8	3.8
174.5°	3.3	3.3	3.4	3.2	3.1	3.3	3.3	3.6	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	3.7	3.8
175.5°	3.5	3.5	3.5	3.3	3.2	3.1	3.4	3.7	3.8	3.7	3.7
176°	3.5	3.5	3.5	3.3	3.0	3.0	3.2	3.6	3.8	3.8	3.7
176.5°	3.5	3.5	3.5	3.5	3.2	3.1	3.2	3.5	3.7	3.7	3.7
177°	3.5	3.5	3.5	3.5	3.3	3.1	3.2	3.5	3.6	3.6	3.6
177.5°	3.5	3.5	3.5	3.4	3.1	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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
0.5°	1861.0	1860.9	1860.8	1860.6	1860.4	1860.2	1860.0	1859.9	1859.8	1859.8	1859.9
1°	1861.0	1861.2	1861.4	1861.6	1861.4	1861.0	1860.5	1860.0	1859.7	1859.4	1859.4
1.5°	1861.5	1861.3	1860.8	1859.9	1859.3	1859.3	1859.3	1859.1	1858.7	1858.4	1858.3
2°	1861.4	1860.0	1858.4	1858.5	1858.4	1857.7	1857.5	1857.6	1857.2	1857.0	1857.0
2.5°	1860.0	1859.7	1859.9	1858.8	1858.7	1858.2	1857.2	1856.9	1856.6	1856.3	1855.9
3°	1859.2	1858.8	1858.4	1857.6	1857.6	1857.2	1856.8	1856.2	1854.7	1853.4	1853.8
3.5°	1857.7	1857.3	1857.2	1857.3	1856.5	1855.1	1854.8	1855.1	1852.9	1852.1	1851.8
4°	1857.3	1856.5	1855.7	1855.8	1855.5	1854.6	1853.2	1853.6	1852.4	1850.8	1849.6
4.5°	1854.0	1855.0	1853.2	1854.3	1854.4	1853.1	1851.6	1850.7	1850.1	1848.8	1847.9
5°	1853.2	1853.1	1852.8	1851.9	1852.3	1851.6	1850.3	1849.2	1848.5	1847.3	1844.9
5.5°	1852.1	1851.3	1851.0	1849.9	1850.3	1849.0	1848.7	1847.4	1846.7	1845.3	1842.7
6°	1850.0	1849.1	1848.3	1847.9	1847.7	1847.0	1846.5	1845.1	1844.0	1843.1	1839.8
6.5°	1847.3	1846.7	1846.2	1845.5	1844.9	1845.7	1844.5	1842.8	1840.7	1840.6	1837.3
7°	1845.0	1843.9	1844.4	1843.2	1842.9	1843.0	1842.2	1839.8	1837.8	1837.0	1834.8
7.5°	1841.9	1841.2	1841.3	1841.4	1839.9	1840.0	1838.9	1837.8	1834.8	1834.3	1832.3
8°	1839.0	1838.6	1838.1	1838.3	1837.7	1837.7	1835.3	1834.1	1832.1	1831.3	1828.3
8.5°	1835.3	1835.4	1834.8	1834.5	1835.0	1833.9	1833.7	1831.2	1830.0	1827.7	1825.1
9°	1831.6	1832.0	1831.5	1831.5	1832.0	1830.5	1829.9	1828.6	1825.7	1824.0	1821.6
9.5°	1828.5	1828.7	1827.7	1827.9	1828.0	1827.7	1825.9	1824.4	1821.5	1820.1	1817.0
10°	1824.5	1824.6	1823.8	1824.9	1824.3	1822.8	1822.9	1821.0	1818.1	1816.3	1813.0
10.5°	1820.3	1820.8	1819.1	1821.1	1820.4	1819.5	1819.5	1817.5	1814.9	1811.5	1809.1
11°	1815.3	1816.8	1816.0	1817.5	1816.8	1816.2	1815.6	1813.6	1810.4	1807.0	1804.3
11.5°	1810.6	1812.3	1811.2	1812.6	1812.5	1812.6	1811.2	1808.8	1805.5	1803.1	1799.3
12°	1806.0	1807.0	1806.7	1807.5	1808.6	1807.6	1806.8	1804.5	1801.7	1799.0	1794.6
12.5°	1801.1	1802.4	1802.3	1802.6	1804.2	1803.1	1802.1	1800.3	1797.5	1793.4	1790.2
13°	1796.0	1797.3	1796.7	1797.3	1798.7	1798.2	1797.9	1795.8	1793.2	1788.3	1785.3
13.5°	1790.1	1790.9	1791.0	1792.7	1793.5	1793.2	1793.0	1790.9	1787.3	1783.0	1778.9
14°	1784.0	1785.4	1786.3	1787.7	1788.6	1788.3	1787.9	1786.4	1782.0	1777.8	1773.3
14.5°	1777.9	1779.4	1780.6	1781.9	1783.5	1783.3	1782.8	1780.8	1777.5	1772.0	1767.5
15°	1771.7	1774.1	1774.6	1776.3	1778.6	1777.6	1777.7	1774.9	1772.2	1765.6	1761.6
15.5°	1765.2	1768.3	1769.1	1770.9	1773.0	1771.7	1772.4	1769.3	1765.9	1760.1	1755.6
16°	1758.2	1761.3	1762.6	1764.4	1766.6	1766.4	1766.4	1764.1	1759.9	1754.9	1749.6
16.5°	1751.5	1754.8	1756.1	1758.1	1760.2	1760.6	1760.1	1758.7	1754.5	1748.8	1742.8
17°	1744.4	1747.5	1749.2	1751.5	1754.3	1754.2	1754.1	1752.6	1748.2	1742.1	1735.5
17.5°	1737.1	1740.8	1742.7	1744.8	1748.4	1748.4	1749.1	1746.1	1741.6	1735.7	1728.9
18°	1730.0	1732.7	1735.9	1739.0	1741.5	1741.6	1742.0	1739.2	1734.7	1729.0	1721.6
18.5°	1721.9	1724.6	1729.0	1731.7	1734.8	1734.5	1734.6	1733.0	1728.1	1721.4	1713.9
19°	1713.5	1716.7	1721.0	1723.7	1727.8	1728.2	1728.3	1726.3	1721.9	1714.1	1706.9
19.5°	1705.2	1708.9	1713.1	1716.9	1720.3	1720.9	1721.4	1719.2	1714.6	1707.0	1699.0
20°	1697.8	1701.6	1705.5	1709.4	1712.8	1714.2	1714.1	1712.3	1707.4	1699.6	1691.3
20.5°	1689.2	1693.0	1697.8	1701.1	1705.8	1706.5	1706.6	1705.3	1700.2	1692.1	1683.2
21°	1680.2	1685.2	1689.0	1693.1	1697.6	1699.5	1699.5	1697.5	1692.5	1683.9	1675.2



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1652.5	1657.1	1663.0	1669.0	1673.5	1676.1	1676.1	1673.5	1668.5	1659.1	1650.2
23°	1642.9	1647.9	1654.4	1660.0	1665.1	1667.5	1667.7	1665.1	1660.4	1651.2	1640.7
23.5°	1633.1	1638.4	1644.9	1650.5	1657.1	1659.7	1659.9	1657.3	1651.8	1643.1	1631.9
24°	1622.7	1629.3	1635.1	1641.8	1647.8	1650.8	1651.3	1649.1	1643.6	1634.2	1622.9
24.5°	1612.6	1619.0	1625.9	1632.4	1638.7	1642.2	1643.3	1640.6	1634.7	1625.0	1613.6
25°	1602.8	1608.8	1616.4	1623.1	1629.5	1633.6	1634.8	1631.9	1625.8	1615.6	1603.8
25.5°	1592.1	1598.9	1606.2	1613.2	1620.1	1624.4	1625.4	1622.7	1616.8	1606.4	1594.7
26°	1581.4	1588.5	1596.3	1603.2	1610.9	1614.9	1615.8	1614.2	1607.8	1596.9	1584.7
26.5°	1570.7	1577.4	1585.7	1593.3	1601.8	1606.1	1606.8	1604.8	1598.0	1587.6	1574.7
27°	1559.2	1567.0	1575.2	1583.4	1591.3	1596.2	1597.3	1594.8	1588.8	1577.8	1564.7
27.5°	1548.2	1555.6	1564.7	1573.0	1582.0	1586.3	1587.5	1585.4	1579.1	1568.0	1554.3
28°	1536.4	1544.9	1553.3	1563.0	1571.5	1576.0	1577.5	1575.8	1569.1	1558.0	1543.6
28.5°	1524.9	1533.2	1542.8	1552.4	1560.8	1566.4	1567.9	1566.2	1559.2	1547.6	1533.7
29°	1513.1	1521.8	1531.9	1540.9	1551.0	1556.9	1558.2	1555.9	1549.1	1537.4	1522.8
29.5°	1500.7	1509.4	1520.3	1530.0	1540.2	1545.6	1548.4	1545.8	1538.4	1526.8	1511.5
30°	1489.1	1498.3	1509.0	1519.4	1529.4	1536.2	1537.2	1535.4	1527.8	1516.1	1500.8
30.5°	1476.8	1485.3	1497.3	1508.6	1518.4	1525.1	1526.4	1524.3	1518.2	1505.2	1489.5
31°	1463.4	1474.0	1485.8	1496.7	1507.7	1513.7	1516.5	1514.6	1507.1	1493.9	1478.4
31.5°	1450.7	1461.7	1473.8	1484.8	1496.8	1503.3	1505.4	1503.3	1495.7	1483.5	1467.1
32°	1438.2	1448.9	1461.4	1473.7	1484.8	1492.0	1494.0	1492.6	1485.4	1472.1	1455.4
32.5°	1425.2	1436.8	1449.7	1461.7	1473.1	1480.9	1483.3	1481.8	1473.8	1460.9	1444.0
33°	1412.2	1423.6	1437.4	1449.8	1462.4	1469.2	1472.4	1470.1	1462.8	1449.4	1431.6
33.5°	1399.0	1410.8	1424.6	1438.1	1450.2	1458.0	1460.3	1459.2	1451.4	1437.5	1419.7
34°	1385.8	1397.8	1412.1	1425.7	1437.6	1446.3	1449.0	1448.3	1439.9	1425.9	1407.8
34.5°	1372.9	1384.6	1399.3	1413.1	1426.0	1435.0	1437.7	1436.3	1427.7	1414.5	1397.1
35°	1359.1	1370.9	1386.3	1400.3	1414.2	1422.7	1426.2	1424.4	1416.3	1402.4	1385.4
35.5°	1344.6	1358.2	1373.3	1387.8	1401.8	1410.0	1414.0	1412.5	1404.6	1391.1	1372.3
36°	1330.8	1344.5	1360.2	1375.6	1388.9	1398.6	1402.1	1401.1	1392.9	1378.3	1359.2
36.5°	1317.0	1330.4	1347.1	1362.9	1376.7	1386.6	1390.2	1389.3	1380.3	1365.6	1346.1
37°	1303.1	1317.1	1333.6	1349.0	1364.7	1374.5	1377.8	1376.6	1367.7	1352.9	1333.1
37.5°	1289.4	1303.0	1320.2	1336.5	1351.5	1361.8	1365.3	1364.0	1355.2	1340.2	1320.1
38°	1275.0	1289.6	1307.1	1323.8	1339.0	1348.9	1352.7	1351.4	1342.6	1327.5	1307.2
38.5°	1261.3	1275.0	1293.7	1310.1	1325.0	1335.9	1340.3	1338.8	1330.0	1314.7	1293.8
39°	1246.8	1261.6	1279.6	1296.5	1312.3	1322.9	1327.3	1326.0	1317.1	1301.7	1281.0
39.5°	1232.9	1247.3	1265.7	1283.1	1299.1	1309.9	1314.1	1312.7	1303.9	1289.0	1267.3
40°	1218.0	1232.8	1251.7	1269.6	1285.9	1297.1	1301.4	1299.9	1291.1	1275.6	1254.2
40.5°	1203.1	1218.7	1237.2	1256.5	1272.1	1284.0	1288.2	1286.4	1278.0	1262.6	1240.9
41°	1188.3	1203.9	1223.5	1242.1	1259.0	1270.1	1274.7	1273.5	1264.8	1249.6	1227.5
41.5°	1174.4	1189.8	1209.4	1228.1	1245.0	1256.8	1261.7	1260.3	1251.9	1235.5	1213.3
42°	1160.1	1176.1	1195.3	1214.3	1231.4	1243.1	1247.7	1247.4	1237.9	1221.5	1199.6
42.5°	1145.6	1161.4	1181.2	1200.4	1217.3	1229.4	1234.4	1233.6	1224.8	1208.4	1185.5
43°	1130.9	1146.0	1166.6	1186.3	1203.7	1216.7	1220.8	1219.9	1210.9	1194.9	1172.9
43.5°	1115.7	1132.2	1152.5	1172.3	1190.2	1202.3	1207.1	1206.2	1196.9	1181.0	1158.6





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	1072.2	1088.4	1109.2	1129.4	1148.4	1160.6	1165.2	1164.7	1155.8	1138.8	1116.1
45.5°	1056.9	1073.4	1094.7	1115.2	1133.3	1145.8	1151.6	1150.8	1141.1	1124.6	1101.9
46°	1042.1	1058.5	1080.1	1100.6	1118.9	1132.3	1137.1	1136.5	1126.8	1110.8	1087.7
46.5°	1027.3	1044.4	1064.9	1086.0	1104.3	1117.5	1122.7	1121.9	1112.8	1096.6	1073.6
47°	1012.8	1029.0	1050.4	1071.9	1090.6	1103.8	1108.9	1107.8	1098.4	1082.1	1059.1
47.5°	998.1	1015.4	1035.8	1057.0	1076.2	1089.6	1093.7	1093.5	1084.3	1067.7	1044.7
48°	983.4	999.7	1021.1	1042.4	1061.6	1075.0	1079.5	1078.7	1069.9	1053.6	1030.3
48.5°	968.9	985.3	1007.2	1028.2	1046.3	1059.8	1064.8	1064.5	1055.4	1039.0	1015.4
49°	953.9	971.0	992.7	1013.4	1032.7	1045.6	1050.5	1050.2	1041.2	1024.3	1001.3
49.5°	939.8	956.5	977.9	998.6	1017.3	1031.6	1036.5	1035.5	1026.4	1009.7	987.1
50°	925.3	941.2	963.1	983.5	1003.5	1016.7	1021.8	1021.0	1011.8	995.5	972.3
50.5°	910.9	927.0	948.3	969.5	988.5	1002.2	1007.1	1006.2	997.5	980.6	957.4
51°	896.0	912.5	933.8	955.2	974.2	987.1	992.0	991.4	982.1	965.9	943.0
51.5°	882.1	898.7	919.1	940.4	959.0	973.0	977.2	976.7	967.7	951.7	928.4
52°	867.7	883.5	904.7	925.3	944.6	957.2	962.8	962.1	953.0	936.4	913.7
52.5°	853.7	869.3	890.1	910.8	929.7	942.9	948.2	948.6	938.1	921.4	899.1
53°	839.5	855.1	875.4	896.4	915.2	927.9	934.3	933.7	923.1	906.9	884.6
53.5°	825.3	841.1	861.3	881.6	900.6	913.5	920.8	917.2	908.4	892.5	869.9
54°	811.1	825.7	847.1	866.8	885.8	898.4	904.9	902.1	893.1	877.4	855.6
54.5°	797.4	812.2	832.3	852.4	870.5	884.0	888.4	887.4	878.4	862.8	841.0
55°	783.0	798.3	818.1	837.9	856.1	868.9	873.4	872.1	863.4	848.0	826.1
55.5°	768.8	784.3	804.2	823.5	841.0	854.1	858.1	856.9	848.1	833.0	811.3
56°	755.1	769.9	789.7	808.6	826.3	838.5	843.1	843.6	833.6	818.1	796.9
56.5°	741.5	756.0	775.2	794.2	811.6	823.6	829.0	828.4	818.9	803.3	782.3
57°	728.1	742.0	760.6	779.9	796.9	808.9	815.7	811.5	804.2	788.5	767.7
57.5°	714.3	728.5	746.4	765.9	782.1	794.2	800.0	796.8	788.0	773.5	753.2
58°	700.7	714.7	732.9	751.3	767.1	779.2	782.6	781.8	773.2	758.7	738.5
58.5°	687.5	700.7	718.4	736.2	752.2	763.9	767.7	767.0	758.1	744.4	723.9
59°	674.3	687.0	704.0	721.6	738.0	748.9	752.9	752.1	743.5	729.1	709.2
59.5°	660.7	673.8	690.2	707.4	723.4	734.9	739.1	735.9	728.0	714.1	695.1
60°	647.8	660.4	676.3	693.4	709.8	720.1	723.5	720.9	713.1	699.4	680.0
60.5°	634.7	646.9	662.8	679.1	695.4	704.4	706.9	706.0	697.5	684.4	665.8
61°	621.7	633.4	649.4	665.0	679.8	688.6	691.4	691.0	682.8	669.4	651.4
61.5°	608.6	619.9	635.5	651.5	664.6	674.2	676.9	675.3	667.2	654.4	636.6
62°	595.5	606.4	621.7	637.1	654.4	660.9	662.9	660.4	652.1	640.0	622.2
62.5°	582.3	592.9	607.7	623.3	638.8	656.0	643.5	644.8	637.3	625.2	607.6
63°	569.4	579.9	593.7	608.6	624.5	637.8	628.6	630.1	622.5	610.3	594.0
63.5°	557.1	567.0	579.9	593.8	608.3	620.2	614.1	614.6	606.8	595.7	579.6
64°	544.7	554.2	566.4	579.4	592.1	602.6	599.5	599.1	592.1	581.1	565.2
64.5°	532.3	541.0	553.2	565.5	577.2	585.0	584.8	584.0	577.1	566.1	550.8
65°	519.9	528.5	540.2	551.9	562.4	569.3	569.8	569.2	562.3	551.4	537.1
65.5°	507.7	516.0	526.8	537.9	547.9	554.1	555.4	553.9	547.1	536.9	522.7
66°	495.4	503.5	513.5	524.5	533.6	540.7	540.5	538.7	532.3	522.3	508.5



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	459.9	466.2	475.4	484.0	491.3	495.5	495.0	493.7	487.7	478.8	466.9
68°	447.9	454.1	462.6	470.4	477.1	481.1	479.9	478.9	472.8	464.2	452.5
68.5°	436.3	441.9	449.4	457.0	463.1	466.4	465.6	463.8	457.7	449.7	439.1
69°	424.6	429.6	436.9	443.5	448.9	452.0	450.6	448.7	442.8	435.6	425.2
69.5°	412.8	417.4	424.4	430.5	435.5	437.9	435.9	433.5	428.3	421.4	411.9
70°	401.1	405.8	412.0	417.6	421.7	423.0	420.7	419.0	413.8	407.1	398.2
70.5°	390.1	394.1	399.8	404.5	407.9	408.5	406.2	404.2	398.7	393.1	384.5
71°	379.0	382.6	387.5	391.6	394.2	394.4	391.3	389.6	384.7	378.6	370.9
71.5°	367.7	371.2	375.2	378.6	380.6	380.1	376.8	374.8	370.0	364.8	357.7
72°	356.5	359.5	363.0	365.9	367.2	366.1	362.5	360.2	355.4	350.7	344.5
72.5°	345.7	347.8	351.0	353.0	354.1	352.2	348.0	345.5	341.0	337.0	331.4
73°	334.6	336.4	339.0	340.6	340.9	338.2	333.6	331.0	326.7	323.1	318.0
73.5°	323.9	325.1	327.3	328.2	327.7	324.5	319.4	316.7	312.7	309.5	305.2
74°	313.5	314.2	315.9	316.1	314.5	310.7	305.2	302.4	298.8	295.8	292.3
74.5°	302.8	303.3	304.2	303.7	301.5	297.2	291.0	287.9	284.7	282.1	279.8
75°	292.3	292.3	292.6	291.2	288.5	283.6	277.2	274.0	271.0	269.0	267.2
75.5°	282.0	281.6	281.3	279.3	275.9	270.2	263.4	260.1	257.0	256.0	254.9
76°	271.9	271.1	270.0	267.5	263.4	257.0	249.7	246.3	243.5	242.9	242.3
76.5°	261.8	260.4	258.9	255.5	251.0	244.0	235.9	232.4	230.1	230.1	230.5
77°	251.7	250.0	248.2	244.4	238.5	231.0	222.8	218.9	216.9	217.3	218.5
77.5°	241.9	239.8	237.3	232.8	226.4	218.1	209.4	205.6	203.6	205.1	206.8
78°	232.3	229.8	226.5	221.5	214.4	205.6	196.6	192.4	190.9	192.5	194.7
78.5°	222.8	219.9	216.2	210.5	202.8	193.3	183.8	179.5	178.2	180.4	183.8
79°	213.5	210.3	205.9	199.6	191.3	181.2	171.3	167.3	166.2	169.2	173.2
79.5°	204.2	200.6	195.8	188.6	180.0	169.2	158.7	155.0	154.2	158.0	162.7
80°	195.1	191.2	185.9	178.2	168.7	157.3	146.7	142.8	142.2	146.8	152.1
80.5°	186.3	181.9	176.1	167.6	157.8	146.1	135.0	130.6	130.3	135.5	141.6
81°	177.8	173.0	166.6	157.8	147.1	134.9	123.5	118.9	119.0	124.3	131.1
81.5°	169.2	164.2	157.3	147.9	137.0	124.1	112.2	107.1	108.2	113.7	121.2
82°	160.8	155.4	148.3	138.6	126.6	113.5	101.4	96.1	97.3	103.5	111.5
82.5°	152.6	147.0	139.5	129.1	116.9	103.3	91.1	85.9	87.0	93.8	102.4
83°	144.8	138.9	131.0	120.3	107.5	93.4	81.0	75.7	77.3	84.5	93.6
83.5°	137.1	131.0	122.7	111.6	98.4	84.1	71.5	66.1	68.2	75.4	85.1
84°	129.6	123.4	114.8	103.2	89.6	75.0	62.4	56.9	59.0	66.8	77.1
84.5°	122.5	115.8	106.9	94.9	81.3	66.5	54.6	48.2	50.6	58.7	69.4
85°	115.3	108.6	99.3	87.4	73.3	59.4	46.9	40.1	42.5	51.2	62.2
85.5°	108.4	101.6	92.2	80.1	65.9	52.5	39.2	32.5	35.3	44.2	55.5
86°	101.8	94.9	85.4	73.1	59.8	45.5	31.5	27.0	28.6	37.8	49.3
86.5°	95.6	88.6	78.8	66.6	53.7	38.6	24.9	21.5	24.1	31.9	43.4
87°	89.5	82.4	72.5	61.2	47.7	31.6	19.2	16.0	19.7	26.8	38.0
87.5°	83.5	76.3	66.8	55.8	41.6	26.3	14.4	10.6	15.2	23.4	33.1
88°	77.9	70.8	61.7	50.4	35.6	21.6	10.3	5.1	10.8	20.0	28.8
88.5°	72.6	65.1	56.9	44.9	30.8	17.6	7.1	2.3	6.6	16.6	25.0



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	58.8	51.9	42.5	31.4	19.6	9.1	3.2	0.7	2.8	8.3	17.5
90.5°	54.7	47.6	38.5	27.8	16.8	7.4	1.9	0.6	2.4	7.1	15.5
91°	50.5	43.6	34.9	24.7	14.4	6.5	1.4	0.4	2.1	6.3	13.4
91.5°	46.5	40.0	31.6	21.8	12.4	5.7	1.2	0.3	1.8	5.7	11.4
92°	42.9	36.6	28.5	19.5	10.9	4.9	0.9	0.3	1.7	5.2	10.4
92.5°	39.5	33.5	25.8	17.3	9.5	4.1	0.8	0.4	1.5	4.9	9.6
93°	36.5	30.7	23.4	15.5	8.5	3.6	0.7	0.4	1.4	4.6	9.0
93.5°	33.7	28.2	21.2	14.0	7.8	3.3	0.6	0.5	1.3	4.4	8.6
94°	31.1	25.8	19.3	12.7	7.2	3.0	0.6	0.6	1.2	4.3	8.2
94.5°	28.7	23.7	17.7	11.6	6.8	2.8	0.6	0.6	1.3	4.2	7.8
95°	26.5	21.8	16.2	10.8	6.4	2.5	0.7	0.7	1.3	4.1	7.6
95.5°	24.5	20.1	15.0	10.2	6.0	2.3	0.7	0.8	1.3	4.1	7.3
96°	22.8	18.7	14.0	9.6	5.5	2.2	0.9	0.9	1.3	4.0	7.2
96.5°	21.2	17.5	13.2	9.1	5.2	2.0	1.0	1.0	1.3	3.8	7.0
97°	19.8	16.4	12.5	8.7	4.9	1.9	1.0	1.1	1.3	3.6	6.9
97.5°	18.6	15.5	11.9	8.3	4.6	1.8	1.1	1.2	1.2	3.5	6.8
98°	17.6	14.7	11.4	7.9	4.4	1.7	1.2	1.3	1.3	3.4	6.7
98.5°	16.7	14.1	10.9	7.5	4.2	1.7	1.3	1.4	1.4	3.3	6.6
99°	16.0	13.5	10.5	7.1	3.9	1.6	1.4	1.6	1.5	3.3	6.5
99.5°	15.3	13.0	10.0	6.8	3.7	1.6	1.5	1.7	1.6	3.3	6.3
100°	14.8	12.5	9.6	6.4	3.5	1.6	1.6	1.9	1.7	3.3	6.2
100.5°	14.2	12.0	9.2	6.1	3.3	1.5	1.7	2.1	1.8	3.3	6.0
101°	13.7	11.5	8.8	5.8	3.1	1.5	1.8	2.2	1.9	3.2	5.9
101.5°	13.2	11.1	8.4	5.5	2.9	1.6	1.8	2.3	2.0	3.1	5.8
102°	12.7	10.6	8.1	5.2	2.8	1.6	1.9	2.4	2.1	3.0	5.6
102.5°	12.2	10.2	7.7	4.9	2.6	1.6	2.1	2.4	2.2	2.9	5.5
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°	11.3	9.4	7.0	4.5	2.4	1.8	2.2	2.5	2.4	2.7	5.3
104°	10.9	9.0	6.8	4.3	2.3	1.9	2.3	2.6	2.4	2.7	5.2
104.5°	10.5	8.7	6.5	4.1	2.3	2.0	2.4	2.7	2.5	2.7	5.0
105°	10.1	8.3	6.2	3.9	2.3	2.1	2.6	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	7.6	5.6	3.5	2.2	2.2	3.4	2.9	2.8	2.6	4.6
106.5°	8.9	7.3	5.4	3.4	2.2	2.2	3.7	3.0	3.1	2.5	4.4
107°	8.5	7.0	5.1	3.2	2.2	2.3	4.0	3.1	3.4	2.4	4.2
107.5°	8.2	6.7	4.9	3.1	2.2	2.3	4.1	3.1	3.7	2.4	4.1
108°	7.9	6.4	4.6	3.0	2.2	2.4	4.1	3.2	3.7	2.5	4.0
108.5°	7.6	6.1	4.4	2.9	2.3	2.5	4.0	3.2	3.5	2.6	3.9
109°	7.3	5.9	4.2	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	3.8	3.3	3.6	2.7	3.7
110°	6.7	5.3	3.9	2.6	2.5	2.7	3.8	3.4	3.7	2.8	3.6
110.5°	6.4	5.1	3.7	2.6	2.5	2.8	3.8	3.4	3.8	2.8	3.5
111°	6.1	4.9	3.6	2.5	2.6	3.0	3.8	3.5	3.9	2.9	3.5



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**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	3.9	3.6	4.3	3.2	3.3
113.5°	5.0	4.0	3.0	2.5	2.7	3.7	4.0	3.6	4.4	3.2	3.2
114°	4.8	3.8	3.0	2.5	2.8	3.9	4.1	3.7	4.4	3.3	3.1
114.5°	4.6	3.7	3.0	2.6	3.0	4.1	4.1	3.7	4.5	3.3	3.0
115°	4.4	3.6	3.0	2.6	3.1	4.3	4.2	3.7	4.5	3.4	2.8
115.5°	4.2	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	4.2	3.7	4.6	3.5	2.9
116.5°	3.9	3.4	2.9	2.9	3.4	4.7	4.3	3.7	4.6	3.6	2.9
117°	3.8	3.3	2.8	2.9	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	3.2	2.8	3.1	3.7	4.9	4.5	3.7	4.8	3.8	3.1
118.5°	3.5	3.2	2.8	3.2	3.8	5.1	4.5	3.7	4.8	3.9	3.2
119°	3.4	3.1	2.8	3.3	3.9	5.3	4.6	3.7	4.8	4.0	3.2
119.5°	3.4	3.0	2.9	3.4	4.0	5.4	4.6	3.7	4.8	4.1	3.3
120°	3.3	3.0	2.9	3.5	4.0	5.5	4.6	3.7	4.9	4.2	3.4
120.5°	3.2	2.9	3.0	3.5	4.1	5.6	4.7	3.7	4.9	4.4	3.5
121°	3.2	2.9	3.0	3.6	4.2	5.7	4.7	3.7	4.9	4.5	3.6
121.5°	3.1	2.9	3.1	3.7	4.3	5.8	4.7	3.7	4.9	4.4	3.6
122°	3.0	2.9	3.2	3.7	4.4	5.8	4.7	3.7	5.0	4.4	3.7
122.5°	3.0	2.9	3.2	3.8	4.6	5.7	4.6	3.7	5.0	4.4	3.7
123°	2.9	2.9	3.3	3.9	4.7	5.6	4.6	3.7	5.0	4.5	3.8
123.5°	2.9	2.9	3.4	3.9	4.8	5.5	4.6	3.7	5.0	4.5	3.8
124°	2.9	3.0	3.5	4.0	4.8	5.4	4.5	3.7	5.0	4.6	3.9
124.5°	2.9	3.0	3.5	4.1	5.0	5.3	4.5	3.7	5.0	4.6	3.9
125°	2.9	3.1	3.6	4.2	5.1	5.3	4.5	3.7	5.1	4.7	4.0
125.5°	2.9	3.2	3.7	4.2	5.3	5.2	4.4	3.8	5.1	4.7	4.0
126°	2.9	3.2	3.8	4.3	5.5	5.2	4.4	3.8	5.1	4.7	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	3.3	3.9	4.5	5.7	5.1	4.4	3.8	5.1	4.8	4.2
127.5°	3.1	3.4	3.9	4.6	5.7	5.0	4.3	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°	3.1	3.5	4.1	4.8	5.8	5.0	4.3	3.8	5.0	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°	3.2	3.6	4.2	5.0	6.0	5.0	4.3	3.8	5.0	4.9	4.7
130°	3.3	3.7	4.3	5.1	6.0	5.0	4.3	3.8	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	6.1	5.0	4.3	3.9	5.0	5.1	4.8
131.5°	3.5	3.9	4.5	5.3	6.2	5.0	4.3	3.9	5.0	5.1	4.7
132°	3.5	3.9	4.5	5.4	6.2	4.9	4.2	3.9	5.0	5.1	4.7
132.5°	3.6	4.0	4.6	5.6	6.2	4.9	4.2	3.9	5.0	5.1	4.7
133°	3.6	4.1	4.7	5.7	6.2	4.9	4.2	3.9	5.0	5.1	4.8
133.5°	3.7	4.2	4.8	5.8	6.2	4.8	4.2	3.9	5.0	5.1	4.8



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	3.9	4.4	5.1	6.2	5.9	4.8	4.2	3.9	4.9	5.2	4.7
135.5°	3.9	4.4	5.2	6.2	5.9	4.8	4.3	3.9	5.0	5.2	4.7
136°	4.0	4.5	5.2	6.2	5.9	4.8	4.3	3.9	5.0	5.2	4.8
136.5°	4.1	4.6	5.3	6.3	5.8	4.8	4.3	3.9	4.9	5.2	4.8
137°	4.1	4.6	5.4	6.3	5.7	4.8	4.3	3.9	4.9	5.2	4.8
137.5°	4.2	4.7	5.5	6.3	5.7	4.8	4.3	3.9	4.8	5.2	4.8
138°	4.3	4.8	5.6	6.4	5.6	4.8	4.4	3.9	4.8	5.1	4.9
138.5°	4.3	4.9	5.7	6.4	5.5	4.8	4.4	3.9	4.6	5.1	4.9
139°	4.4	5.0	5.8	6.4	5.4	4.8	4.4	3.9	4.6	5.1	4.8
139.5°	4.5	5.1	5.9	6.4	5.3	4.8	4.4	4.0	4.6	5.1	4.9
140°	4.6	5.1	6.0	6.4	5.3	4.8	4.4	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	5.2	4.9
141°	4.7	5.2	6.1	6.2	5.1	4.8	4.4	3.9	4.7	5.3	4.9
141.5°	4.8	5.4	6.1	6.1	5.0	4.8	4.4	3.9	4.7	5.3	4.9
142°	4.9	5.5	6.2	6.0	5.0	4.8	4.4	3.8	4.7	5.3	4.9
142.5°	4.9	5.6	6.2	6.0	4.9	4.8	4.4	3.7	4.6	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	4.7
143.5°	5.1	5.9	6.2	5.8	4.8	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	4.3	3.8	4.6	5.1	4.8
144.5°	5.3	5.9	6.2	5.6	4.8	4.7	4.4	3.8	4.6	5.2	4.9
145°	5.5	5.9	6.1	5.5	4.7	4.7	4.4	3.8	4.5	5.3	4.9
145.5°	5.7	6.0	6.0	5.4	4.7	4.7	4.4	3.8	4.5	5.3	4.9
146°	5.7	5.9	6.0	5.3	4.7	4.7	4.4	3.8	4.5	5.3	4.9
146.5°	5.7	5.9	5.9	5.2	4.7	4.7	4.4	3.8	4.4	5.3	4.9
147°	5.7	5.9	5.8	5.1	4.6	4.7	4.3	3.8	4.4	5.3	5.0
147.5°	5.7	5.8	5.7	4.9	4.6	4.7	4.2	3.8	4.4	5.3	5.1
148°	5.7	5.8	5.6	4.8	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	4.4	4.2	3.9	4.4	5.2	5.1
149°	5.6	5.7	5.4	4.7	4.5	4.5	4.3	3.8	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	5.1
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	4.2	3.9	4.3	5.1	5.1
151°	5.5	5.3	4.9	4.4	4.4	4.5	4.2	3.9	4.3	5.1	5.0
151.5°	5.5	5.2	4.7	4.4	4.4	4.5	4.2	3.9	4.2	5.0	5.0
152°	5.4	5.1	4.6	4.4	4.4	4.5	4.1	3.9	4.2	4.9	5.1
152.5°	5.3	5.0	4.6	4.3	4.4	4.4	4.1	3.8	3.9	4.8	5.2
153°	5.2	4.9	4.5	4.3	4.4	4.4	4.1	3.7	3.7	4.8	5.2
153.5°	5.0	4.8	4.4	4.2	4.4	4.4	4.1	3.6	3.7	4.7	5.2
154°	4.9	4.6	4.3	4.2	4.4	4.4	4.1	3.6	3.6	4.6	5.2
154.5°	4.8	4.5	4.2	4.2	4.4	4.4	4.0	3.6	3.6	4.4	5.1
155°	4.7	4.4	4.2	4.2	4.4	4.2	4.0	3.6	3.5	4.2	4.8
155.5°	4.6	4.3	4.1	4.2	4.2	4.0	3.9	3.5	3.5	4.1	4.6
156°	4.5	4.2	4.1	4.2	4.2	4.0	3.9	3.3	3.5	3.9	4.4



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	4.2	4.0	4.0	4.1	4.1	3.9	3.3	3.3	3.4	3.8	4.4
158°	4.1	4.0	4.0	4.2	4.2	3.9	3.2	3.3	3.4	3.8	4.4
158.5°	4.0	4.0	4.0	4.2	4.3	3.9	3.2	3.3	3.4	3.7	4.3
159°	4.0	3.9	4.0	4.1	4.2	3.8	3.2	3.3	3.3	3.7	4.2
159.5°	3.9	3.9	4.0	4.1	4.0	3.8	3.2	3.2	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	3.6	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	3.9	4.0	4.0	4.0	3.8	3.2	3.2	3.3	3.6	4.0
161.5°	3.9	3.9	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	3.1	3.1	3.3	3.4	3.8
163.5°	3.9	4.0	4.1	4.1	3.6	3.2	3.1	3.1	3.3	3.4	3.7
164°	3.9	4.0	4.1	4.0	3.3	3.1	3.1	3.1	3.3	3.4	3.7
164.5°	4.0	4.1	4.2	4.0	3.3	3.1	3.1	3.1	3.3	3.4	3.7
165°	4.0	4.1	4.2	3.9	3.3	3.1	3.1	3.1	3.3	3.3	3.6
165.5°	4.0	4.1	4.2	3.9	3.2	3.1	3.1	3.1	3.2	3.3	3.6
166°	4.0	4.1	4.1	3.8	3.2	3.1	3.1	3.1	3.2	3.3	3.6
166.5°	4.1	4.1	4.1	3.8	3.2	3.1	3.1	3.1	3.2	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	3.5
167.5°	4.1	4.2	4.0	3.4	3.2	3.1	3.2	3.1	3.2	3.3	3.5
168°	4.2	4.2	3.9	3.3	3.2	3.1	3.2	3.2	3.2	3.3	3.5
168.5°	4.2	4.2	3.9	3.3	3.1	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	3.3	3.4
169.5°	4.2	4.1	3.8	3.2	3.1	3.2	3.3	3.2	3.2	3.3	3.4
170°	4.1	4.1	3.7	3.2	3.2	3.3	3.5	3.4	3.2	3.4	3.6
170.5°	4.1	3.9	3.4	3.2	3.2	3.4	3.6	3.6	3.2	3.6	3.9
171°	4.1	3.8	3.2	3.1	3.2	3.4	3.7	3.6	3.2	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	3.6	3.2	3.1	3.3	3.7	3.7	3.6	3.6	3.8	3.9
172.5°	3.9	3.6	3.1	3.1	3.4	3.7	3.7	3.6	3.6	3.8	3.8
173°	3.8	3.6	3.1	3.1	3.4	3.7	3.7	3.7	3.6	3.7	3.8
173.5°	3.8	3.5	3.1	3.1	3.4	3.7	3.7	3.7	3.6	3.7	3.8
174°	3.7	3.2	3.0	3.2	3.4	3.7	3.7	3.7	3.7	3.7	3.8
174.5°	3.6	3.1	3.0	3.2	3.6	3.7	3.7	3.7	3.7	3.7	3.8
175°	3.5	3.1	3.1	3.2	3.6	3.7	3.7	3.6	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	3.1	3.3	3.5	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	3.6	3.7	3.7	3.7
177°	3.5	3.3	3.2	3.3	3.6	3.7	3.7	3.6	3.6	3.6	3.7
177.5°	3.4	3.2	3.1	3.3	3.5	3.7	3.7	3.6	3.6	3.6	3.5
178°	3.1	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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6	1860.6
0.5°	1859.9	1859.9	1860.0	1860.0	1860.0	1860.0	1860.1	1860.1	1860.2	1860.2	1860.2
1°	1859.4	1859.4	1859.1	1858.7	1858.3	1858.1	1858.3	1858.6	1859.1	1859.5	1859.7
1.5°	1858.4	1858.4	1858.4	1858.2	1858.1	1858.0	1858.2	1858.4	1858.7	1858.9	1859.1
2°	1856.8	1856.8	1856.6	1856.2	1856.0	1855.9	1856.1	1856.6	1857.2	1857.6	1857.7
2.5°	1855.7	1855.5	1854.7	1854.0	1854.0	1854.4	1854.3	1854.5	1855.1	1856.0	1856.4
3°	1853.9	1853.7	1852.7	1852.3	1852.6	1852.9	1852.8	1852.8	1853.3	1854.1	1854.4
3.5°	1851.0	1850.8	1850.6	1850.0	1850.2	1850.8	1851.1	1851.4	1851.9	1852.5	1853.1
4°	1849.6	1849.4	1848.6	1848.0	1848.2	1848.8	1849.2	1849.3	1849.4	1850.1	1850.8
4.5°	1846.7	1846.3	1846.1	1846.2	1846.0	1845.7	1846.0	1846.5	1846.8	1848.0	1849.4
5°	1844.4	1844.1	1843.1	1842.7	1842.1	1841.9	1842.6	1843.6	1844.7	1846.2	1847.8
5.5°	1842.1	1841.2	1840.5	1839.8	1839.5	1839.9	1839.9	1840.7	1842.1	1843.9	1845.7
6°	1838.7	1837.9	1837.4	1836.9	1836.7	1836.4	1836.3	1837.0	1838.7	1840.1	1842.4
6.5°	1835.4	1834.2	1833.6	1833.1	1832.8	1833.1	1833.1	1834.2	1835.7	1837.4	1839.9
7°	1832.8	1831.5	1830.0	1829.1	1829.4	1829.7	1830.1	1831.0	1832.8	1834.1	1837.4
7.5°	1829.7	1828.4	1826.2	1825.6	1824.9	1824.2	1825.2	1826.8	1828.5	1830.8	1833.8
8°	1825.5	1824.4	1822.5	1821.3	1820.6	1820.8	1821.3	1822.8	1824.6	1826.7	1830.2
8.5°	1821.4	1819.4	1818.3	1817.2	1816.2	1816.5	1816.9	1818.5	1820.9	1823.1	1826.5
9°	1816.8	1815.1	1813.8	1812.3	1812.0	1812.0	1812.0	1813.6	1816.5	1819.7	1823.7
9.5°	1813.1	1811.0	1808.6	1807.6	1807.1	1806.8	1807.1	1809.0	1811.9	1815.2	1819.6
10°	1809.9	1806.5	1804.2	1802.5	1802.0	1802.0	1801.9	1804.0	1807.4	1811.0	1815.1
10.5°	1804.6	1801.9	1798.9	1797.0	1796.3	1795.4	1796.8	1799.2	1802.3	1806.4	1811.4
11°	1799.4	1796.6	1793.6	1791.9	1790.9	1790.7	1791.2	1793.3	1797.2	1801.0	1806.5
11.5°	1794.2	1791.0	1788.0	1786.0	1785.2	1784.4	1785.5	1787.8	1791.7	1797.0	1801.0
12°	1789.7	1785.4	1782.1	1780.2	1778.9	1778.5	1780.1	1782.7	1786.5	1792.1	1797.4
12.5°	1784.6	1780.0	1776.6	1774.5	1773.2	1771.9	1773.8	1776.5	1780.6	1786.1	1792.8
13°	1779.1	1773.9	1770.3	1767.8	1765.7	1765.2	1767.4	1770.1	1774.1	1780.3	1786.7
13.5°	1772.6	1767.5	1763.8	1760.9	1758.8	1758.6	1760.6	1763.1	1768.0	1774.1	1781.5
14°	1767.1	1761.4	1757.3	1754.2	1752.0	1752.6	1753.3	1756.6	1762.0	1769.0	1775.0
14.5°	1760.8	1754.5	1750.7	1747.6	1744.4	1744.8	1746.9	1749.7	1755.2	1762.6	1769.6
15°	1754.3	1748.1	1744.1	1740.1	1737.9	1737.5	1739.2	1743.1	1748.0	1755.6	1763.3
15.5°	1748.3	1741.7	1736.4	1732.3	1730.7	1729.6	1731.5	1735.4	1741.4	1748.9	1757.1
16°	1741.7	1734.8	1728.9	1724.4	1721.7	1721.6	1723.4	1727.7	1733.7	1741.6	1750.1
16.5°	1734.6	1727.5	1721.5	1716.7	1714.2	1714.4	1715.9	1719.9	1726.6	1734.5	1743.2
17°	1727.6	1720.1	1714.1	1709.2	1706.5	1706.0	1707.9	1711.9	1718.8	1727.9	1736.4
17.5°	1720.2	1712.5	1706.2	1701.1	1698.1	1697.3	1699.8	1703.6	1710.6	1720.2	1730.1
18°	1712.6	1704.4	1697.9	1692.3	1689.2	1688.1	1690.1	1695.9	1703.0	1712.4	1722.8
18.5°	1704.8	1696.7	1689.1	1683.1	1680.4	1679.9	1681.9	1687.4	1695.4	1704.7	1715.2
19°	1697.7	1688.0	1680.2	1674.3	1672.1	1670.2	1672.2	1678.1	1685.9	1696.3	1706.7
19.5°	1688.8	1679.4	1671.5	1665.3	1662.7	1661.1	1663.5	1668.8	1677.1	1688.5	1699.3
20°	1681.1	1671.4	1662.9	1656.1	1652.5	1651.8	1654.8	1660.0	1668.8	1680.1	1692.4
20.5°	1672.9	1662.5	1653.9	1646.6	1642.4	1642.0	1645.0	1651.2	1660.0	1671.6	1684.5
21°	1664.0	1653.8	1644.6	1636.9	1632.3	1632.2	1635.1	1641.3	1651.0	1663.2	1675.6





TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1637.4	1625.3	1615.2	1607.5	1601.8	1601.0	1603.6	1610.4	1621.4	1635.8	1649.4
23°	1628.7	1615.7	1605.5	1596.9	1591.5	1591.2	1593.3	1600.5	1611.9	1626.3	1641.2
23.5°	1618.9	1605.4	1594.9	1586.3	1581.5	1579.5	1582.3	1589.8	1601.8	1616.2	1631.7
24°	1609.5	1595.7	1584.3	1574.6	1570.0	1568.0	1570.7	1579.4	1591.1	1606.1	1621.9
24.5°	1599.7	1585.9	1573.4	1563.5	1558.9	1556.3	1560.3	1569.5	1581.4	1596.3	1612.6
25°	1591.1	1575.6	1563.5	1553.1	1548.1	1545.2	1549.1	1558.5	1570.8	1586.3	1602.6
25.5°	1579.9	1564.8	1552.6	1541.8	1535.8	1533.8	1537.5	1546.5	1559.4	1575.6	1593.2
26°	1569.5	1554.0	1540.9	1530.6	1524.7	1522.0	1526.1	1535.1	1549.1	1565.7	1583.5
26.5°	1559.3	1543.4	1529.3	1518.9	1513.1	1510.2	1513.6	1523.7	1537.7	1555.1	1572.9
27°	1549.4	1533.2	1518.3	1506.6	1500.5	1498.8	1501.9	1511.7	1526.5	1543.8	1562.5
27.5°	1538.6	1521.1	1506.7	1494.4	1487.6	1486.8	1490.1	1499.7	1514.7	1533.5	1551.7
28°	1527.2	1510.0	1495.2	1482.4	1476.0	1474.0	1478.3	1488.8	1503.7	1522.1	1541.7
28.5°	1516.7	1499.3	1483.6	1471.2	1463.8	1461.4	1465.3	1476.3	1492.0	1510.5	1529.9
29°	1505.7	1487.2	1471.5	1458.2	1450.8	1449.7	1453.7	1463.3	1479.2	1498.7	1519.1
29.5°	1494.5	1475.2	1459.3	1445.8	1438.5	1436.2	1439.5	1451.0	1467.5	1487.8	1508.8
30°	1483.0	1463.3	1447.0	1433.3	1425.3	1423.3	1427.8	1438.9	1455.6	1476.4	1497.4
30.5°	1471.3	1451.7	1434.7	1420.5	1413.1	1410.2	1414.5	1425.9	1442.9	1464.0	1485.7
31°	1459.7	1439.6	1422.2	1407.9	1400.1	1397.2	1402.0	1413.6	1430.6	1451.9	1474.7
31.5°	1447.7	1427.4	1409.7	1394.9	1386.5	1383.7	1388.7	1400.9	1418.5	1440.3	1462.6
32°	1435.6	1415.4	1397.2	1381.4	1373.0	1370.2	1375.3	1387.5	1406.2	1428.2	1451.1
32.5°	1424.3	1403.1	1384.2	1367.8	1359.5	1356.7	1361.9	1374.1	1393.4	1416.1	1439.2
33°	1411.9	1390.1	1371.2	1354.3	1346.0	1343.2	1348.4	1360.6	1380.1	1403.9	1427.5
33.5°	1399.0	1377.0	1358.2	1340.6	1332.4	1329.6	1335.0	1347.2	1366.9	1391.3	1415.4
34°	1388.4	1364.2	1345.3	1327.8	1318.0	1315.9	1320.5	1333.7	1353.7	1378.5	1403.2
34.5°	1375.3	1351.4	1332.1	1314.9	1304.6	1301.6	1307.0	1320.7	1340.6	1365.6	1391.4
35°	1362.3	1338.3	1317.7	1301.1	1290.9	1287.5	1293.4	1307.3	1327.4	1352.8	1378.9
35.5°	1349.4	1325.2	1304.4	1287.5	1277.1	1273.8	1279.4	1293.8	1313.8	1339.9	1366.3
36°	1336.4	1312.3	1291.2	1272.9	1262.6	1259.5	1265.1	1278.7	1300.2	1327.0	1353.7
36.5°	1323.3	1298.7	1276.6	1258.9	1248.0	1245.5	1251.0	1265.4	1286.4	1313.0	1341.1
37°	1310.0	1284.5	1263.1	1245.3	1233.6	1230.6	1236.5	1251.7	1272.7	1299.5	1328.0
37.5°	1296.8	1271.0	1249.3	1231.2	1220.4	1216.5	1222.5	1237.1	1258.5	1285.8	1314.9
38°	1283.1	1257.2	1235.0	1216.2	1205.2	1202.8	1207.8	1223.3	1245.2	1272.5	1300.8
38.5°	1269.7	1243.8	1220.9	1202.4	1191.1	1187.4	1193.8	1209.0	1231.2	1259.1	1287.7
39°	1256.3	1230.2	1206.7	1187.9	1176.9	1173.4	1179.9	1195.0	1217.2	1245.4	1274.5
39.5°	1242.5	1216.6	1193.0	1173.6	1162.8	1158.8	1164.6	1180.3	1203.0	1231.4	1261.3
40°	1229.3	1202.3	1178.8	1159.6	1147.8	1144.4	1150.6	1166.1	1188.7	1217.6	1247.7
40.5°	1215.6	1188.3	1164.6	1145.0	1133.1	1129.7	1135.4	1151.1	1175.3	1203.7	1234.4
41°	1201.9	1174.2	1150.2	1130.1	1118.6	1115.1	1121.7	1137.4	1160.6	1189.9	1220.4
41.5°	1187.8	1160.3	1136.1	1116.1	1104.2	1100.8	1106.5	1123.0	1146.6	1176.0	1206.7
42°	1173.7	1145.8	1121.3	1101.7	1089.1	1085.9	1092.4	1108.1	1132.2	1161.5	1193.6
42.5°	1160.3	1132.2	1107.1	1087.1	1074.7	1071.5	1077.6	1093.9	1118.3	1147.1	1178.9
43°	1146.5	1117.5	1093.0	1072.5	1059.7	1057.2	1063.6	1079.7	1103.9	1133.6	1165.4
43.5°	1132.1	1103.5	1078.4	1057.7	1045.8	1042.2	1048.6	1064.6	1088.8	1119.6	1151.3



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	1089.4	1059.9	1034.6	1014.4	1002.4	998.3	1004.4	1021.3	1045.3	1076.6	1109.2
45.5°	1075.2	1045.9	1020.9	999.7	987.7	984.0	990.5	1007.0	1031.1	1062.1	1094.8
46°	1060.9	1031.7	1006.0	985.5	972.9	970.0	976.2	992.8	1017.3	1047.8	1080.8
46.5°	1046.5	1017.2	991.7	971.0	958.6	955.4	961.6	978.6	1003.0	1033.4	1066.1
47°	1032.4	1002.4	977.1	956.5	943.8	940.8	947.4	963.7	988.3	1019.0	1052.4
47.5°	1017.6	988.2	963.0	942.2	929.7	926.8	933.0	949.4	973.8	1004.6	1037.8
48°	1002.8	974.1	947.9	927.7	915.6	911.9	918.1	934.7	959.4	990.0	1023.2
48.5°	988.4	959.5	934.1	913.7	901.5	897.8	904.4	920.5	944.9	975.8	1008.4
49°	974.3	944.9	919.6	899.6	886.8	883.5	890.4	906.7	931.3	961.9	994.1
49.5°	960.6	930.6	905.7	885.4	872.5	869.9	876.0	892.5	916.4	947.3	980.2
50°	944.9	916.3	891.0	870.9	858.4	855.5	862.4	878.0	902.7	932.6	966.0
50.5°	931.2	901.8	876.0	856.5	844.9	841.7	847.4	863.5	888.1	918.2	951.4
51°	916.4	887.1	862.5	842.8	830.5	828.3	833.9	849.8	873.5	903.9	937.2
51.5°	901.7	873.0	848.6	829.0	816.6	814.1	820.3	836.3	859.8	889.8	922.5
52°	887.0	859.2	834.6	815.1	802.9	800.1	806.4	822.6	845.9	876.2	908.2
52.5°	872.7	844.9	820.5	801.1	789.5	787.1	792.5	808.6	832.1	861.8	893.7
53°	858.4	830.6	806.0	787.1	775.6	773.4	779.0	794.7	817.9	847.4	879.5
53.5°	844.1	816.4	792.0	773.4	761.8	759.4	765.9	780.7	804.2	833.3	865.8
54°	829.8	802.4	778.0	759.8	748.4	745.3	751.6	766.7	790.0	819.1	851.2
54.5°	815.4	787.8	764.2	746.0	734.8	732.5	738.7	753.2	776.3	804.9	836.3
55°	800.9	773.4	750.5	732.6	721.2	719.0	724.9	739.9	762.3	791.2	822.1
55.5°	787.0	759.7	736.7	718.9	708.6	706.1	712.0	726.3	748.6	777.1	807.5
56°	772.3	745.6	722.8	705.7	695.1	693.0	698.7	712.7	734.7	763.1	793.6
56.5°	757.8	731.4	709.6	692.5	681.5	679.4	685.6	699.7	721.5	749.1	779.1
57°	743.7	717.6	695.7	679.1	668.6	666.8	672.6	686.8	707.6	734.9	764.9
57.5°	729.0	704.1	682.6	665.6	655.5	653.5	658.9	673.0	694.3	720.9	750.5
58°	715.0	690.0	668.8	652.5	643.1	640.8	646.5	659.9	680.7	706.9	736.4
58.5°	700.6	676.6	655.7	639.4	630.0	628.3	633.7	646.9	667.6	693.5	722.7
59°	686.6	662.8	642.1	626.7	617.0	615.3	620.8	634.1	654.2	679.9	708.6
59.5°	672.6	648.9	629.2	613.6	604.1	602.6	608.7	621.2	641.2	666.1	694.4
60°	658.3	635.6	616.3	600.5	592.1	590.6	595.7	608.2	627.8	652.6	679.9
60.5°	644.5	622.0	602.9	587.8	579.3	577.7	583.0	595.4	614.9	639.0	665.6
61°	630.2	608.5	589.7	575.2	566.7	565.4	570.4	582.9	601.6	625.5	652.1
61.5°	616.3	595.0	577.0	563.1	555.2	553.2	558.5	570.5	589.0	612.0	637.8
62°	602.0	581.7	564.4	550.3	542.3	541.2	546.1	558.2	575.9	598.9	623.9
62.5°	588.6	568.5	551.3	537.8	530.0	529.2	533.9	545.6	563.2	585.7	610.2
63°	574.9	555.4	538.2	525.3	518.1	517.0	521.8	533.1	550.3	572.3	596.4
63.5°	561.4	542.1	525.6	513.1	506.3	505.1	509.9	520.9	537.7	559.3	583.0
64°	547.3	528.9	513.7	501.1	494.4	493.4	497.8	508.9	525.0	546.2	569.1
64.5°	533.8	515.9	500.9	488.8	482.2	481.7	486.2	496.6	512.5	532.9	555.6
65°	520.2	503.0	488.3	477.0	470.9	469.9	474.6	484.8	500.3	520.1	541.9
65.5°	506.7	490.3	476.5	465.3	459.1	458.3	462.9	472.9	488.2	507.1	528.4
66°	493.7	477.5	464.4	453.1	447.2	446.5	450.8	460.7	475.6	494.4	514.8



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	453.1	439.1	427.3	418.3	413.3	412.7	416.9	425.9	439.2	456.2	474.4
68°	439.9	426.8	415.4	406.6	402.1	401.8	405.7	414.5	427.0	443.6	461.7
68.5°	427.1	414.2	403.6	395.4	391.1	390.4	394.5	403.1	415.4	431.3	448.7
69°	414.0	401.8	391.9	384.1	379.9	379.7	383.3	391.7	403.6	418.8	435.8
69.5°	401.0	389.7	380.1	372.7	368.5	368.5	372.2	380.4	391.8	406.3	422.5
70°	388.4	377.6	368.7	361.4	357.9	358.1	361.5	369.1	380.0	393.9	409.4
70.5°	375.1	365.4	357.0	350.7	347.3	347.5	350.9	358.0	368.4	382.0	396.2
71°	362.5	353.4	345.8	339.8	336.7	336.8	340.1	347.0	357.1	369.7	383.9
71.5°	350.1	341.5	334.5	328.9	325.9	326.1	329.6	336.1	345.8	357.8	370.9
72°	337.6	329.8	323.3	318.1	315.5	316.1	319.2	325.4	334.6	346.1	358.5
72.5°	325.0	318.1	312.2	307.5	305.3	305.6	308.8	314.8	323.4	334.2	345.7
73°	312.9	306.6	301.1	296.9	294.8	295.3	298.3	304.2	312.0	322.5	333.9
73.5°	300.6	295.1	290.0	286.5	284.9	285.2	288.3	293.5	301.3	310.8	321.3
74°	288.4	283.6	279.5	276.4	274.6	275.7	278.2	283.3	290.5	299.5	309.0
74.5°	276.5	272.4	268.8	266.3	264.9	265.8	268.4	273.2	279.8	288.0	296.6
75°	264.8	261.5	258.5	256.1	255.1	255.9	258.5	262.9	269.1	276.7	285.2
75.5°	253.3	250.5	247.9	246.3	245.5	246.3	248.7	252.8	258.5	265.5	273.2
76°	241.5	239.7	238.0	236.4	235.7	236.8	239.0	243.1	248.4	254.6	261.5
76.5°	230.1	228.9	227.8	226.7	226.4	227.4	229.6	233.4	238.0	243.6	249.8
77°	219.1	218.4	218.1	217.3	217.1	218.2	220.4	223.7	228.0	232.9	238.5
77.5°	207.8	208.1	208.0	208.1	208.3	209.3	211.4	214.2	218.2	222.4	226.6
78°	197.1	198.3	198.6	198.9	199.6	200.6	202.3	205.1	208.6	212.1	215.8
78.5°	186.7	188.6	189.3	189.9	190.8	192.0	193.6	196.1	198.8	201.9	204.8
79°	176.2	178.6	180.1	181.3	182.2	183.5	185.1	187.2	189.5	191.8	194.2
79.5°	166.3	169.3	171.4	172.8	174.0	175.2	176.9	178.6	180.3	182.1	183.2
80°	156.6	160.6	163.2	164.9	166.3	167.3	168.6	169.9	171.7	172.5	173.1
80.5°	146.8	151.8	155.0	157.1	158.8	159.8	161.0	162.0	163.4	163.4	163.5
81°	137.0	143.0	146.8	149.4	151.2	152.3	153.4	154.3	155.1	154.7	153.8
81.5°	127.9	134.2	138.5	141.7	143.6	144.8	145.8	146.6	146.9	145.9	144.2
82°	119.5	125.8	130.4	133.9	136.0	137.3	138.3	138.9	138.6	137.0	134.5
82.5°	110.8	117.9	122.8	126.5	128.9	130.3	131.2	131.4	130.4	128.5	125.1
83°	102.4	110.0	115.5	119.4	122.0	123.5	124.2	124.1	122.8	120.3	116.5
83.5°	94.5	102.5	108.4	112.5	115.1	116.6	117.3	117.0	115.5	112.4	107.9
84°	86.9	95.2	101.4	105.8	108.6	110.2	110.8	110.2	108.3	104.7	99.7
84.5°	79.7	88.5	94.9	99.4	102.3	103.8	104.3	103.6	101.4	97.4	91.6
85°	72.8	81.9	88.4	93.2	96.2	97.8	98.1	97.2	94.6	90.4	84.2
85.5°	66.3	75.5	82.3	87.2	90.3	91.7	92.0	91.1	88.2	83.6	77.1
86°	60.2	69.3	76.5	81.5	84.6	86.2	86.5	85.2	82.0	77.1	70.2
86.5°	54.3	63.8	71.0	76.0	79.2	80.7	80.9	79.5	76.3	70.9	63.6
87°	49.0	58.5	65.6	70.8	74.2	75.7	75.7	74.1	70.7	65.2	57.6
87.5°	44.0	53.4	60.7	66.0	69.2	70.8	70.7	69.0	65.4	59.7	51.9
88°	39.5	48.8	56.1	61.4	64.6	66.0	66.0	64.2	60.4	54.7	46.6
88.5°	35.3	44.5	51.7	57.0	60.1	61.6	61.5	59.5	55.8	49.8	41.8



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	25.2	33.5	40.3	45.3	48.5	49.9	49.6	47.4	43.3	37.4	29.5
90.5°	22.6	30.5	37.1	42.0	45.1	46.4	46.0	43.9	39.9	34.0	26.3
91°	20.3	27.9	34.2	39.0	42.0	43.2	42.9	40.7	36.7	30.8	23.5
91.5°	18.5	25.5	31.6	36.2	39.1	40.3	39.8	37.7	33.8	28.1	21.0
92°	17.3	23.5	29.2	33.6	36.5	37.6	37.1	35.0	31.1	25.7	18.9
92.5°	16.2	21.7	27.1	31.4	34.1	35.1	34.6	32.5	28.7	23.5	17.6
93°	15.0	20.2	25.4	29.3	31.9	32.8	32.4	30.3	26.7	21.6	16.3
93.5°	13.9	18.9	23.8	27.5	30.0	30.9	30.4	28.4	24.9	20.1	15.1
94°	12.8	17.9	22.5	26.0	28.3	29.2	28.6	26.6	23.3	18.7	13.9
94.5°	12.2	17.0	21.3	24.7	26.8	27.6	27.1	25.1	21.9	17.6	12.6
95°	11.7	16.3	20.3	23.5	25.5	26.2	25.6	23.8	20.7	16.6	12.0
95.5°	11.3	15.6	19.4	22.4	24.3	24.9	24.4	22.7	19.7	15.8	11.5
96°	10.9	15.1	18.6	21.5	23.2	23.8	23.3	21.7	18.8	15.2	11.1
96.5°	10.6	14.7	18.0	20.6	22.3	22.9	22.4	20.8	18.1	14.6	10.6
97°	10.4	14.2	17.4	19.8	21.4	22.0	21.6	20.1	17.5	14.1	10.2
97.5°	10.2	13.8	16.8	19.2	20.7	21.2	20.8	19.4	17.0	13.5	9.8
98°	10.0	13.3	16.3	18.6	20.0	20.5	20.2	18.8	16.5	13.0	9.3
98.5°	9.9	13.0	15.9	18.0	19.5	20.0	19.6	18.3	15.9	12.5	9.0
99°	9.7	12.8	15.5	17.5	18.9	19.4	19.0	17.7	15.3	12.0	8.8
99.5°	9.6	12.6	15.1	17.1	18.4	18.9	18.4	17.1	14.9	11.7	8.7
100°	9.5	12.4	14.8	16.7	17.9	18.3	17.9	16.6	14.5	11.3	8.6
100.5°	9.3	12.2	14.6	16.4	17.5	17.9	17.4	16.1	14.0	11.2	8.5
101°	9.2	12.0	14.3	16.0	17.1	17.5	17.0	15.7	13.6	11.0	8.4
101.5°	9.1	11.9	14.1	15.7	16.7	17.1	16.6	15.3	13.2	10.9	8.3
102°	8.9	11.7	13.8	15.5	16.4	16.7	16.2	14.9	13.0	10.7	8.2
102.5°	8.7	11.6	13.6	15.2	16.1	16.4	15.9	14.7	12.8	10.6	8.0
103°	8.5	11.4	13.4	15.0	15.9	16.1	15.7	14.6	12.7	10.5	7.8
103.5°	8.3	11.2	13.2	14.7	15.6	15.9	15.5	14.4	12.5	10.4	7.6
104°	8.2	11.0	13.0	14.5	15.4	15.7	15.3	14.2	12.4	10.2	7.4
104.5°	8.0	10.8	12.8	14.3	15.1	15.5	15.1	14.0	12.3	10.1	7.2
105°	7.8	10.6	12.6	14.1	14.9	15.3	14.9	13.8	12.1	9.9	6.9
105.5°	7.6	10.3	12.4	13.8	14.7	15.1	14.7	13.6	11.9	9.6	6.7
106°	7.5	10.1	12.2	13.6	14.5	14.9	14.6	13.4	11.8	9.4	6.6
106.5°	7.3	9.9	11.9	13.4	14.3	14.7	14.3	13.3	11.5	9.1	6.4
107°	7.1	9.7	11.7	13.2	14.0	14.4	14.1	13.0	11.3	8.9	6.2
107.5°	7.0	9.5	11.4	12.9	13.8	14.2	13.8	12.8	11.0	8.6	6.0
108°	6.8	9.3	11.2	12.7	13.5	13.9	13.6	12.5	10.7	8.4	5.9
108.5°	6.6	9.1	11.0	12.4	13.3	13.6	13.3	12.2	10.4	8.2	5.7
109°	6.4	8.9	10.7	12.1	13.0	13.4	13.1	11.9	10.1	8.0	5.6
109.5°	6.2	8.7	10.5	11.8	12.7	13.1	12.8	11.6	9.9	7.7	5.4
110°	6.0	8.5	10.2	11.5	12.4	12.8	12.5	11.3	9.6	7.5	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	8.0	9.8	11.1	11.8	12.2	11.9	10.8	9.1	7.2	5.0



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	5.1	7.4	9.2	10.3	11.0	11.3	11.0	10.0	8.4	6.7	4.5
113°	4.9	7.2	9.0	10.1	10.8	11.0	10.8	9.8	8.2	6.6	4.4
113.5°	4.7	6.9	8.7	9.8	10.5	10.8	10.5	9.5	8.0	6.4	4.2
114°	4.5	6.7	8.5	9.6	10.3	10.6	10.3	9.3	7.8	6.2	4.1
114.5°	4.4	6.5	8.3	9.4	10.1	10.3	10.0	9.1	7.6	6.0	3.9
115°	4.3	6.2	8.1	9.2	9.8	10.0	9.8	8.8	7.4	5.9	3.8
115.5°	4.2	6.0	7.8	9.0	9.6	9.8	9.5	8.6	7.2	5.6	3.7
116°	4.1	5.8	7.6	8.8	9.4	9.5	9.3	8.3	7.0	5.4	3.7
116.5°	4.0	5.5	7.4	8.6	9.2	9.3	9.0	8.1	6.8	5.2	3.6
117°	4.0	5.3	7.1	8.3	9.0	9.1	8.8	7.9	6.6	5.1	3.5
117.5°	3.9	5.2	6.8	8.1	8.8	8.9	8.6	7.6	6.3	4.9	3.5
118°	3.9	5.0	6.6	7.9	8.5	8.7	8.3	7.4	6.1	4.7	3.4
118.5°	3.8	4.8	6.3	7.6	8.3	8.4	8.1	7.2	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	4.4	3.1
119.5°	3.5	4.6	5.8	7.1	7.8	8.0	7.6	6.7	5.4	4.3	3.0
120°	3.4	4.5	5.6	6.8	7.6	7.7	7.4	6.4	5.2	4.2	2.9
120.5°	3.2	4.3	5.4	6.5	7.3	7.5	7.1	6.2	5.0	4.1	2.8
121°	3.1	4.2	5.3	6.3	7.0	7.2	6.8	6.0	4.9	4.0	2.7
121.5°	3.0	4.2	5.1	6.0	6.7	6.8	6.6	5.7	4.7	3.9	2.7
122°	3.0	4.1	5.0	5.8	6.4	6.6	6.3	5.5	4.6	3.8	2.7
122.5°	3.1	4.1	4.8	5.6	6.2	6.3	6.1	5.4	4.4	3.6	2.7
123°	3.1	3.9	4.7	5.4	5.9	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	2.8
124°	3.3	3.6	4.4	5.1	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	5.3	4.8	4.0	2.9	2.9
125°	3.4	3.3	4.2	4.9	5.2	5.3	5.2	4.7	3.9	2.8	3.0
125.5°	3.4	3.1	4.1	4.7	5.1	5.2	5.0	4.5	3.8	2.7	3.0
126°	3.5	3.0	4.0	4.6	5.0	5.0	4.9	4.4	3.6	2.6	3.1
126.5°	3.6	3.0	3.8	4.5	4.8	4.9	4.8	4.3	3.4	2.5	3.1
127°	3.6	3.0	3.7	4.4	4.7	4.8	4.7	4.2	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	3.1	3.3	4.1	4.5	4.6	4.5	4.0	3.0	2.7	3.2
128.5°	3.8	3.2	3.1	3.9	4.4	4.4	4.3	3.8	2.8	2.7	3.2
129°	3.9	3.2	3.0	3.7	4.3	4.3	4.2	3.5	2.7	2.8	3.2
129.5°	3.9	3.3	2.9	3.6	4.1	4.2	4.0	3.4	2.7	2.8	3.2
130°	4.0	3.3	3.0	3.4	3.9	4.0	3.8	3.2	2.7	2.9	3.2
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	2.9	2.8	3.0	3.3
131.5°	4.1	3.5	3.1	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	3.2	3.1	2.8	2.9	3.1	3.3
132.5°	4.2	3.6	3.2	3.0	2.9	3.0	2.9	2.9	3.0	3.1	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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	4.6	3.9	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	3.1	3.3	3.6	4.0
136°	4.7	4.0	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	3.1	3.2	3.2	3.4	3.7	4.1
137°	4.8	4.2	3.7	3.4	3.3	3.2	3.2	3.3	3.5	3.7	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	4.3	3.8	3.5	3.3	3.3	3.3	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	4.0	3.8
139°	4.6	4.5	3.9	3.6	3.5	3.4	3.5	3.5	3.7	4.1	3.8
139.5°	4.6	4.5	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	3.5	3.6	3.9	4.2	3.8
140.5°	4.6	4.6	4.2	3.8	3.6	3.5	3.6	3.7	4.0	4.3	3.7
141°	4.5	4.7	4.3	3.8	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	3.8	4.3	4.3	3.7
142°	4.5	4.7	4.5	4.0	3.8	3.7	3.8	3.9	4.3	4.2	3.7
142.5°	4.6	4.6	4.5	4.1	3.8	3.8	3.8	4.0	4.4	4.1	3.7
143°	4.6	4.5	4.6	4.3	3.9	3.8	3.9	4.2	4.4	4.1	3.8
143.5°	4.6	4.5	4.6	4.4	4.0	3.9	4.0	4.4	4.4	4.0	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	4.4	4.7	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	4.4	4.4	4.5	4.5	4.4	4.0	3.7
145.5°	4.5	4.4	4.5	4.6	4.5	4.5	4.5	4.5	4.2	4.0	3.7
146°	4.5	4.4	4.4	4.7	4.5	4.5	4.6	4.6	4.2	4.0	3.7
146.5°	4.6	4.4	4.4	4.7	4.6	4.6	4.6	4.6	4.2	4.0	3.7
147°	4.6	4.4	4.4	4.6	4.7	4.7	4.7	4.5	4.2	4.0	3.7
147.5°	4.6	4.4	4.4	4.5	4.7	4.7	4.7	4.4	4.1	3.9	3.7
148°	4.6	4.4	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	4.5	4.5	4.3	4.1	3.9	3.7
149°	4.6	4.4	4.4	4.4	4.4	4.4	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	4.3	4.4	4.4	4.3	4.1	3.8	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	4.3	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	4.3	4.4	4.4	4.3	4.0	3.8	3.7
152.5°	4.8	4.3	4.3	4.4	4.4	4.4	4.4	4.2	4.0	3.8	3.7
153°	4.7	4.3	4.3	4.3	4.3	4.4	4.4	4.2	4.0	3.8	3.7
153.5°	4.8	4.4	4.3	4.3	4.3	4.4	4.3	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°	4.8	4.4	4.3	4.3	4.3	4.3	4.3	4.2	4.0	3.8	3.8
155°	4.9	4.5	4.3	4.2	4.3	4.3	4.2	4.2	4.0	3.9	3.8
155.5°	4.7	4.6	4.3	4.2	4.2	4.3	4.2	4.2	4.0	3.9	3.9
156°	4.6	4.6	4.3	4.2	4.2	4.3	4.2	4.2	4.1	3.9	3.9



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	4.9	4.6	4.5	4.3	4.2	4.3	4.3	4.2	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	4.0
158.5°	4.4	4.4	4.5	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	4.3	4.3	4.4	4.4	4.3	4.1
159.5°	4.3	4.4	4.7	4.5	4.4	4.4	4.4	4.4	4.4	4.3	4.2
160°	4.2	4.4	4.7	4.6	4.4	4.4	4.4	4.4	4.5	4.4	4.2
160.5°	4.2	4.4	4.7	4.6	4.5	4.5	4.5	4.5	4.6	4.5	4.3
161°	4.2	4.4	4.6	4.7	4.5	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	4.6	4.7	4.6	4.4
162°	4.2	4.2	4.5	4.8	4.7	4.7	4.7	4.7	4.8	4.6	4.4
162.5°	4.1	4.2	4.4	4.8	4.8	4.7	4.7	4.8	4.8	4.7	4.3
163°	4.1	4.2	4.4	4.8	4.8	4.8	4.8	4.8	4.9	4.7	4.3
163.5°	4.0	4.2	4.3	4.7	4.9	4.8	4.9	4.9	4.9	4.6	4.4
164°	4.0	4.2	4.2	4.6	4.9	4.9	4.9	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	4.9	4.9	3.9
165°	4.0	4.1	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	5.0	5.1	4.9	3.9	4.2
166°	3.8	4.1	4.2	4.2	4.8	5.1	5.1	5.1	4.9	3.9	4.4
166.5°	3.8	4.2	4.2	4.1	4.8	5.1	5.1	5.1	4.9	4.5	3.8
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	4.0	4.5	5.0	5.0	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	4.0	5.0	5.0	4.9	3.7	4.4	4.0
169.5°	4.0	4.4	4.6	4.2	4.0	4.8	4.9	4.6	3.3	4.3	4.2
170°	4.1	4.3	4.5	4.4	3.9	4.6	4.9	3.9	4.4	4.3	4.2
170.5°	4.1	4.2	4.4	4.5	4.0	4.6	4.8	3.8	4.4	4.4	4.1
171°	4.0	4.2	4.3	4.5	4.0	4.5	4.8	3.8	4.2	4.3	4.1
171.5°	4.0	4.1	4.3	4.4	3.9	4.3	4.7	3.3	4.4	4.2	4.1
172°	4.0	4.1	4.2	4.3	4.1	3.8	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°	3.8	3.9	4.0	4.1	4.1	3.6	3.6	4.1	4.0	3.9	3.7
174°	3.8	3.9	4.0	4.0	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	3.6
175°	3.8	3.8	3.8	3.9	4.0	3.4	3.4	3.8	3.7	3.6	3.6
175.5°	3.8	3.8	3.8	3.8	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	3.3	3.7	3.6	3.6	3.6	3.6
176.5°	3.7	3.7	3.7	3.7	3.7	3.3	3.6	3.5	3.6	3.6	3.5
177°	3.6	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	3.5	3.6	2.1	3.6	3.5	3.5	3.5	3.5
178.5°	3.5	3.6	3.6	3.5	3.2	2.8	3.3	3.5	3.6	3.5	3.5



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1860.6	1860.6	1860.6	1860.6
0.5°	1860.2	1860.2	1860.1	1860.1
1°	1859.8	1859.9	1859.8	1859.9
1.5°	1859.4	1859.6	1859.6	1860.0
2°	1857.9	1858.7	1859.4	1859.6
2.5°	1856.3	1856.7	1858.3	1858.9
3°	1854.9	1856.1	1857.5	1857.6
3.5°	1854.1	1855.8	1856.2	1856.4
4°	1852.8	1854.8	1854.8	1855.6
4.5°	1850.2	1852.3	1852.8	1853.6
5°	1848.7	1850.1	1851.6	1852.4
5.5°	1847.4	1848.0	1849.9	1851.2
6°	1844.4	1846.8	1847.8	1849.7
6.5°	1841.6	1843.2	1845.7	1847.7
7°	1840.2	1840.7	1844.2	1845.9
7.5°	1836.8	1839.0	1840.1	1843.3
8°	1833.1	1835.7	1838.7	1841.4
8.5°	1829.4	1832.2	1836.0	1837.9
9°	1826.4	1829.0	1832.6	1835.9
9.5°	1822.8	1825.7	1829.2	1832.6
10°	1818.4	1821.4	1826.0	1828.9
10.5°	1814.8	1818.6	1821.7	1825.5
11°	1810.4	1815.3	1819.2	1821.7
11.5°	1806.1	1810.9	1815.6	1817.7
12°	1801.8	1806.6	1811.9	1814.0
12.5°	1796.6	1801.9	1807.3	1810.4
13°	1791.5	1797.0	1802.9	1806.1
13.5°	1786.6	1792.2	1798.6	1801.3
14°	1781.2	1787.4	1793.4	1796.8
14.5°	1775.6	1783.0	1788.3	1792.3
15°	1769.9	1777.2	1783.2	1787.1
15.5°	1763.7	1771.2	1777.9	1782.4
16°	1757.5	1765.6	1773.1	1776.6
16.5°	1751.2	1759.4	1767.9	1770.2
17°	1745.2	1753.4	1761.5	1764.3
17.5°	1738.6	1747.3	1754.7	1759.4
18°	1732.2	1741.3	1748.6	1754.0
18.5°	1725.5	1735.0	1742.6	1747.2
19°	1718.1	1728.1	1736.2	1740.6
19.5°	1709.9	1721.2	1729.5	1734.1
20°	1702.5	1714.0	1722.3	1727.6
20.5°	1695.5	1706.2	1715.5	1721.0
21°	1688.3	1698.5	1707.9	1714.4



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
22.5°	1662.8	1675.4	1686.1	1691.6
23°	1654.3	1667.4	1677.8	1684.9
23.5°	1645.7	1658.7	1669.5	1676.4
24°	1636.8	1650.5	1661.5	1668.3
24.5°	1627.6	1641.9	1653.4	1660.7
25°	1618.7	1632.8	1645.0	1652.5
25.5°	1608.7	1624.3	1635.9	1643.6
26°	1600.1	1615.0	1627.2	1635.0
26.5°	1590.2	1605.6	1618.2	1625.9
27°	1580.5	1596.3	1608.7	1616.9
27.5°	1570.1	1587.5	1599.4	1608.0
28°	1560.1	1576.9	1590.2	1598.3
28.5°	1549.6	1567.0	1580.5	1588.9
29°	1538.6	1556.8	1570.8	1580.2
29.5°	1528.9	1546.3	1560.6	1570.4
30°	1518.2	1536.6	1550.5	1560.1
30.5°	1506.9	1525.7	1540.5	1550.3
31°	1495.4	1515.4	1530.2	1540.4
31.5°	1484.9	1503.9	1519.5	1529.9
32°	1473.2	1493.0	1508.5	1518.7
32.5°	1462.0	1481.9	1497.8	1507.9
33°	1450.8	1471.3	1486.7	1497.6
33.5°	1439.6	1460.5	1475.5	1486.5
34°	1427.1	1448.7	1464.4	1475.0
34.5°	1415.6	1436.7	1452.6	1463.2
35°	1403.8	1425.4	1441.6	1452.4
35.5°	1391.3	1413.3	1429.9	1441.2
36°	1379.1	1401.6	1417.9	1429.5
36.5°	1366.8	1389.3	1407.1	1417.4
37°	1354.5	1376.9	1395.3	1405.7
37.5°	1342.3	1364.7	1383.5	1394.3
38°	1329.5	1352.5	1370.5	1382.9
38.5°	1315.6	1340.2	1357.5	1370.0
39°	1302.2	1327.3	1344.5	1356.7
39.5°	1289.3	1314.2	1331.8	1343.6
40°	1276.3	1301.5	1319.8	1330.9
40.5°	1263.4	1288.6	1307.3	1319.0
41°	1249.7	1275.3	1294.0	1306.2
41.5°	1236.5	1261.6	1281.2	1292.8
42°	1222.4	1248.4	1268.0	1280.2
42.5°	1208.8	1235.2	1254.4	1267.4
43°	1195.2	1221.5	1240.9	1253.9
43.5°	1181.5	1207.7	1227.8	1239.9



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
45°	1139.5	1167.2	1187.0	1199.2
45.5°	1125.9	1153.0	1172.7	1185.9
46°	1111.6	1139.2	1158.9	1171.6
46.5°	1097.6	1125.2	1144.7	1157.0
47°	1083.9	1111.1	1131.0	1142.9
47.5°	1069.3	1097.1	1116.9	1129.3
48°	1055.3	1082.2	1102.3	1115.6
48.5°	1040.5	1068.4	1088.4	1100.9
49°	1026.3	1054.2	1074.3	1087.2
49.5°	1012.2	1039.4	1059.7	1072.7
50°	997.4	1024.9	1045.0	1058.2
50.5°	983.1	1010.8	1030.5	1043.4
51°	969.2	995.9	1016.3	1029.1
51.5°	954.8	981.9	1002.1	1014.4
52°	939.8	967.1	986.8	1000.2
52.5°	925.3	952.4	972.6	985.1
53°	910.7	937.8	957.5	970.5
53.5°	896.6	923.1	943.0	955.7
54°	882.1	908.4	928.2	941.0
54.5°	867.8	893.8	913.4	926.0
55°	853.5	879.3	898.7	910.8
55.5°	837.9	864.9	883.7	896.4
56°	823.5	849.2	868.5	881.1
56.5°	809.4	835.1	854.2	866.3
57°	795.1	820.3	839.2	851.9
57.5°	780.1	805.7	824.5	836.4
58°	765.6	790.2	809.0	821.2
58.5°	751.1	775.6	794.1	806.5
59°	737.2	760.8	779.3	791.2
59.5°	722.2	746.0	764.5	776.3
60°	707.8	731.1	749.6	760.9
60.5°	693.0	716.6	734.4	745.9
61°	679.1	701.9	719.2	730.8
61.5°	664.3	687.0	704.1	715.9
62°	650.0	672.4	689.2	700.7
62.5°	635.7	657.9	674.1	685.6
63°	621.7	643.0	659.1	670.4
63.5°	607.1	628.2	644.3	655.5
64°	592.5	613.6	629.1	640.2
64.5°	578.4	598.8	614.6	624.7
65°	564.7	584.0	599.5	609.3
65.5°	550.1	569.6	584.3	593.9
66°	536.6	555.4	569.4	578.4



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
67.5°	494.3	511.7	525.1	533.4
68°	480.2	496.9	510.0	518.6
68.5°	466.3	482.7	494.8	503.4
69°	452.9	467.9	480.5	488.3
69.5°	439.1	453.6	465.5	473.5
70°	425.2	439.5	451.0	458.4
70.5°	411.5	425.3	436.2	443.5
71°	398.1	411.0	421.7	428.8
71.5°	384.6	396.8	407.0	414.0
72°	371.1	382.9	392.3	399.4
72.5°	357.7	369.1	377.6	384.8
73°	344.5	354.9	363.5	369.8
73.5°	331.7	341.4	349.3	354.9
74°	318.6	327.4	335.0	340.7
74.5°	305.4	313.7	320.8	326.3
75°	292.6	299.8	306.5	312.0
75.5°	280.0	286.6	292.4	297.5
76°	267.7	273.2	279.1	283.4
76.5°	255.1	260.2	264.9	269.4
77°	242.9	246.9	251.5	255.6
77.5°	230.6	234.3	237.8	241.5
78°	218.7	221.1	224.6	228.2
78.5°	207.1	208.9	211.1	214.5
79°	195.5	196.6	198.2	201.1
79.5°	184.2	184.5	185.8	187.9
80°	173.5	173.1	173.8	175.5
80.5°	162.9	161.7	161.7	162.6
81°	152.4	150.2	149.7	150.2
81.5°	141.7	138.8	137.6	138.0
82°	131.2	127.4	125.5	126.1
82.5°	121.2	116.9	114.2	113.8
83°	111.4	106.6	103.6	103.1
83.5°	102.1	96.5	92.8	92.2
84°	93.1	86.7	82.6	81.9
84.5°	84.8	77.6	72.7	71.7
85°	76.5	68.9	63.6	62.4
85.5°	68.9	60.6	54.7	54.2
86°	61.7	52.8	46.5	46.1
86.5°	54.8	45.6	38.8	38.0
87°	48.3	38.8	31.7	29.9
87.5°	42.6	32.7	26.7	23.0
88°	37.2	27.3	21.7	16.6
88.5°	32.3	23.8	16.8	11.2



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
90°	20.7	12.9	4.8	3.5
90.5°	18.6	9.5	3.2	2.0
91°	16.6	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°	9.6	4.7	1.3	0.2
93.5°	8.9	4.4	1.2	0.2
94°	8.3	4.0	1.2	0.3
94.5°	7.9	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°	6.7	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	3.3	1.0	0.8
98°	6.1	3.2	1.0	0.8
98.5°	6.1	3.1	1.0	0.9
99°	6.0	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°	4.6	2.5	1.7	1.9
104°	4.5	2.4	1.8	1.9
104.5°	4.4	2.3	1.9	1.9
105°	4.3	2.2	1.9	2.0
105.5°	4.3	2.2	2.0	2.0
106°	4.2	2.1	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°	3.7	1.9	2.4	1.9
108°	3.6	1.9	2.4	1.9
108.5°	3.4	1.9	2.4	2.0
109°	3.3	1.9	2.4	2.0
109.5°	3.1	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°	2.8	2.0	2.3	2.0



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	2.7	2.1	2.3	2.0
113°	2.7	2.1	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	2.4	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	3.1	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	2.6	2.3
121°	2.8	3.1	2.7	2.3
121.5°	2.8	3.1	2.7	2.4
122°	2.8	3.0	2.7	2.4
122.5°	2.8	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°	3.1	2.9	2.8	2.5
125.5°	3.3	3.0	2.9	2.5
126°	3.4	3.2	2.9	2.6
126.5°	3.6	3.2	2.9	2.6
127°	3.7	3.3	2.9	2.6
127.5°	3.8	3.3	3.0	2.7
128°	3.9	3.3	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°	3.6	3.3	2.8	2.8
132°	3.6	3.3	2.8	2.8
132.5°	3.5	3.3	2.9	2.8
133°	3.4	3.3	3.1	2.8
133.5°	3.4	3.3	3.2	2.8



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
135°	3.4	3.3	3.0	2.9
135.5°	3.4	3.3	3.0	2.9
136°	3.5	3.3	3.1	2.8
136.5°	3.5	3.2	3.1	2.8
137°	3.5	3.2	3.1	2.8
137.5°	3.5	3.2	3.0	2.9
138°	3.5	3.2	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	3.4	3.1	3.0
141.5°	3.6	3.4	3.1	2.9
142°	3.6	3.5	3.1	2.9
142.5°	3.6	3.5	3.1	2.9
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	2.9
146°	3.6	3.6	3.1	2.9
146.5°	3.6	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°	3.7	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°	3.8	3.6	2.9	2.6
153.5°	3.8	3.5	2.7	2.4
154°	3.8	3.5	2.6	2.2
154.5°	3.9	3.4	2.6	2.1
155°	3.9	3.4	2.5	2.1
155.5°	3.9	3.2	2.4	2.2
156°	3.9	3.1	2.3	2.1



TEST NUMBER: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
157.5°	3.9	3.1	2.2	1.9
158°	3.9	3.0	2.2	1.9
158.5°	4.0	3.0	2.1	1.9
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°	4.0	3.0	2.1	2.0
161.5°	4.1	2.9	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	2.0
165.5°	3.7	2.3	2.0	2.1
166°	3.8	2.2	2.0	2.1
166.5°	3.3	2.2	2.0	2.1
167°	3.0	2.2	2.0	2.1
167.5°	3.5	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	2.2
170°	3.5	2.9	2.7	2.3
170.5°	3.5	3.0	2.8	2.6
171°	3.7	3.3	2.8	2.9
171.5°	3.7	3.4	3.1	3.0
172°	3.7	3.4	3.2	3.0
172.5°	3.7	3.4	3.3	3.1
173°	3.6	3.5	3.3	3.1
173.5°	3.6	3.5	3.3	3.1
174°	3.6	3.5	3.4	3.2
174.5°	3.6	3.5	3.5	3.3
175°	3.5	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: P563558

CATALOG NUMBER: 4NWS3C3MS-UNV-HI-3500K

**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°	1707.3	1711.3	1710.9	1707.8	1701.6	1694.2	1686.3	1679.7	1674.1	1671.3	1670.2
22°	1699.2	1703.6	1703.5	1699.9	1693.7	1686.0	1677.3	1670.6	1665.6	1661.8	1661.0



44°	1226.5	1231.0	1225.2	1212.2	1191.2	1165.4	1139.1	1116.6	1100.0	1091.8	1093.0
44.5°	1212.9	1216.7	1211.9	1198.2	1177.1	1150.8	1125.0	1102.1	1085.5	1077.5	1077.5





66.5°	563.3	568.5	567.2	559.2	546.5	528.7	512.4	498.0	487.6	481.5	479.9
67°	548.2	553.0	552.5	545.3	532.5	515.8	500.3	486.1	475.6	469.9	468.7



89°	6.9	13.5	25.9	39.9	53.2	62.3	69.7	74.0	75.6	75.0	72.2
89.5°	5.2	9.5	21.2	34.8	47.9	57.7	65.1	68.8	70.5	70.0	67.3



111.5°	2.0	2.0	1.7	1.5	2.0	3.1	4.5	5.8	6.7	7.0	6.7
112°	2.0	2.0	1.7	1.5	1.9	2.9	4.2	5.5	6.4	6.7	6.5



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



156.5°	1.9	3.0	3.5	3.5	3.5	3.5	3.7	4.1	4.3	4.4	4.5
157°	1.9	3.0	3.5	3.5	3.5	3.5	3.6	4.0	4.2	4.3	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	3.1	3.2	3.3	3.2





21.5°	1671.9	1676.2	1680.2	1685.1	1689.8	1691.8	1691.9	1689.7	1684.6	1676.7	1666.6
22°	1662.6	1666.6	1671.7	1677.2	1682.2	1683.9	1684.3	1682.2	1676.4	1668.3	1658.0





44°	1100.9	1117.3	1138.5	1158.4	1176.1	1188.9	1193.9	1191.8	1183.1	1167.2	1143.9
44.5°	1086.8	1103.4	1124.1	1143.7	1162.0	1174.8	1179.2	1178.3	1169.6	1153.1	1129.4



66.5°	483.3	490.7	500.8	511.0	520.0	526.0	524.6	523.6	517.2	508.0	494.6
67°	471.9	478.5	488.1	497.5	505.5	510.4	510.1	508.7	502.5	493.5	480.8



89°	67.4	60.6	52.0	39.6	26.6	14.2	5.8	0.9	4.7	13.2	21.7
89.5°	62.9	56.3	47.1	35.3	22.8	11.4	4.5	0.8	3.5	9.9	19.6



111.5°	5.9	4.6	3.4	2.5	2.6	3.1	3.8	3.5	4.0	3.0	3.5
112°	5.6	4.4	3.3	2.5	2.6	3.2	3.8	3.5	4.1	3.1	3.4



134°	3.7	4.2	4.9	6.0	6.1	4.8	4.2	3.9	4.9	5.2	4.7
134.5°	3.8	4.3	5.0	6.1	6.0	4.8	4.2	3.9	4.9	5.2	4.7



156.5°	4.4	4.2	4.0	4.2	4.2	3.9	3.7	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	3.1	3.2	3.2	3.3	3.4
179.5°	3.2	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0







21.5°	1655.8	1644.1	1634.6	1626.6	1622.6	1621.7	1624.0	1631.1	1641.2	1654.2	1667.3
22°	1647.0	1634.4	1624.2	1617.2	1612.9	1611.0	1614.3	1620.6	1631.4	1644.5	1658.3



44°	1117.8	1089.1	1063.6	1043.2	1030.8	1027.5	1033.9	1050.1	1074.7	1104.4	1137.6
44.5°	1103.9	1074.2	1049.0	1028.8	1015.9	1012.5	1019.3	1035.9	1060.4	1090.4	1122.8



66.5°	479.8	464.5	451.3	441.4	435.7	435.2	439.5	449.2	463.3	481.5	501.6
67°	466.3	451.7	439.4	430.1	424.7	424.1	427.9	437.7	451.2	468.6	488.3



89°	31.6	40.5	47.6	52.7	56.0	57.4	57.2	55.1	51.3	45.3	37.3
89.5°	28.2	36.8	43.8	48.9	52.2	53.5	53.2	51.1	47.1	41.1	33.2



111.5°	5.5	7.8	9.6	10.8	11.5	11.9	11.6	10.5	8.9	7.0	4.8
112°	5.3	7.6	9.4	10.6	11.3	11.6	11.3	10.3	8.6	6.9	4.6



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°	4.5	3.9	3.4	3.2	3.0	2.9	3.0	3.1	3.2	3.4	3.9



156.5°	4.7	4.7	4.4	4.3	4.2	4.3	4.3	4.2	4.1	4.0	3.9
157°	4.9	4.6	4.4	4.3	4.2	4.3	4.3	4.2	4.1	4.0	4.0



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







21.5°	1679.9	1691.5	1700.5	1707.3
22°	1671.0	1684.2	1693.7	1699.2



44°	1167.8	1194.6	1213.7	1226.5
44.5°	1154.6	1180.5	1200.5	1212.9



66.5°	522.1	540.7	554.6	563.3
67°	508.1	526.2	540.1	548.2



89°	27.9	20.1	11.8	6.9
89.5°	24.0	16.5	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	3.2	3.1	2.9
134.5°	3.4	3.3	3.1	2.9



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





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



(END OF REPORT)