

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: P563544

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

Issue Date: 7/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P563544  
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-LOW-4000K  
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND LOW LUMEN SETTING  
Light Source: -  
Ballast/Driver:

**Summary**

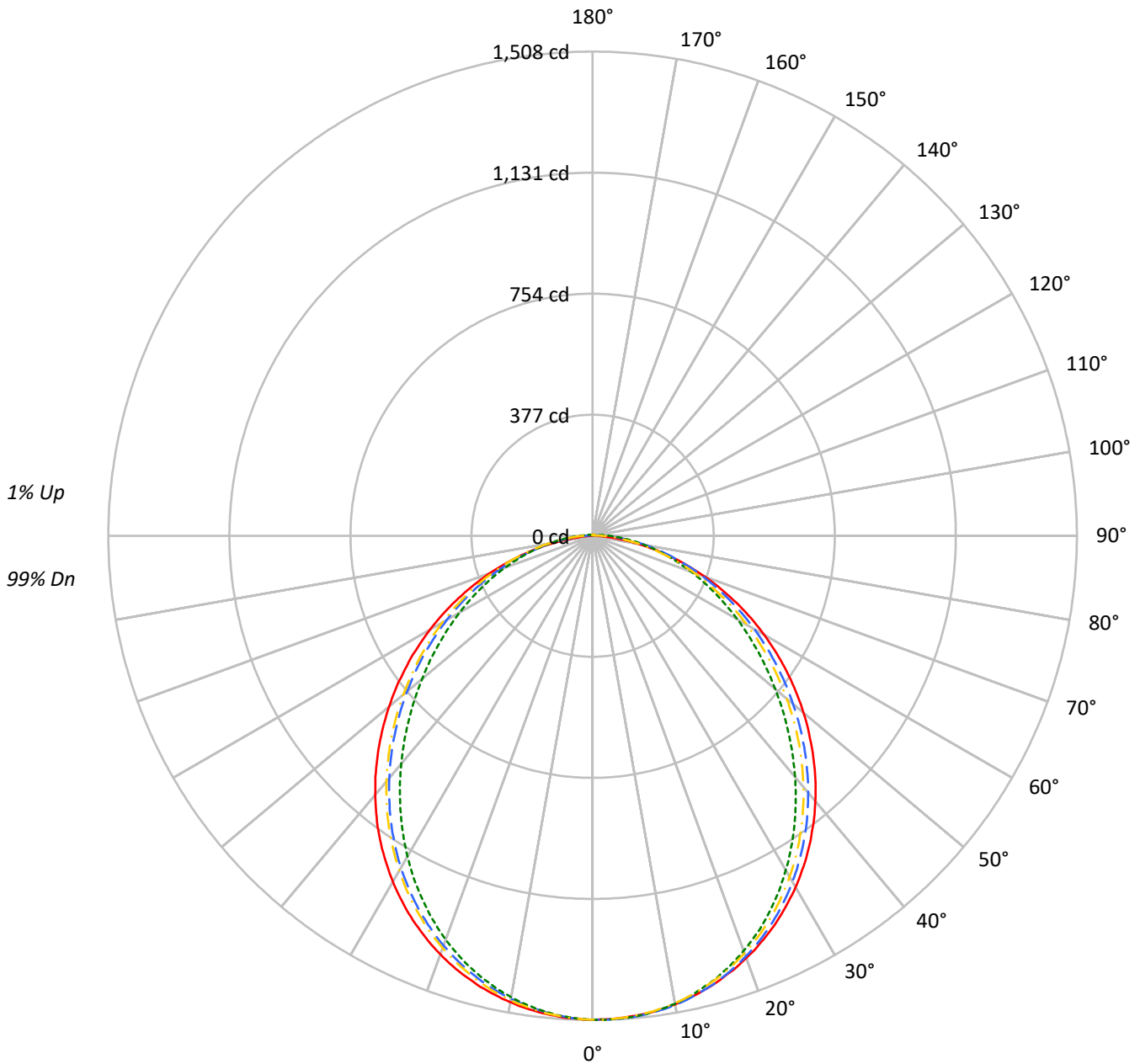
Lumens per Lamp: N/A  
Luminaire Lumens: 3930.0 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.17 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 27.5  
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°	9162	9162	9162	9162
5°	9140	9025	9124	8958
10°	9112	8844	9073	8722
15°	9060	8612	8998	8434
20°	8986	8329	8906	8103
25°	8892	8001	8781	7721
30°	8766	7618	8627	7303
35°	8607	7189	8441	6842
40°	8410	6723	8213	6356
45°	8181	6234	7947	5854
50°	7911	5736	7634	5357
55°	7595	5260	7272	4869
60°	7234	4784	6854	4390
65°	6798	4300	6351	3905
70°	6245	3817	5708	3403
75°	5510	3312	4839	2866
80°	4454	2770	3624	2299
85°	2847	2212	1832	1757



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	3.6
10°-20°	403.8	10.3
20°-30°	599.7	15.3
30°-40°	699.0	17.8
40°-50°	692.0	17.6
50°-60°	594.3	15.1
60°-70°	435.0	11.1
70°-80°	246.9	6.3
80°-90°	82.3	2.1
90°-100°	14.9	0.4
100°-110°	6.3	0.2
110°-120°	3.7	0.1
120°-130°	2.7	0.1
130°-140°	2.4	0.1
140°-150°	2.2	0.1
150°-160°	1.5	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	1145.7	29.2
0°-40°	1844.7	46.9
0°-60°	3131.0	79.7
0°-90°	3895.2	99.1
90°-120°	24.9	0.6
90°-150°	32.2	0.8
90°-180°	35.0	0.9
0°-180°	3930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1507	1507	1507	1507	1507	
5°	1501	1503	1498	1492	1501	143
15°	1448	1437	1438	1408	1448	408
25°	1339	1297	1322	1252	1339	617
35°	1177	1096	1154	1043	1177	736
45°	972	861	944	809	972	749
55°	738	629	706	582	738	660
65°	494	419	461	381	494	488
75°	253	240	222	207	253	268
85°	50	100	32	79	50	60
90°	3	53	1	40	3	3
95°	0	26	1	21	0	0
105°	2	10	2	12	2	2
115°	2	4	3	8	2	2
125°	2	2	3	4	2	2
135°	2	3	3	2	2	2
145°	2	4	3	4	2	2
155°	2	4	3	4	2	1
165°	2	3	2	4	2	0
175°	3	3	3	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°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
0.5°	1507.0	1507.0	1507.1	1507.3	1507.4	1507.5	1507.6	1507.7	1507.7	1507.7	1507.7
1°	1506.8	1507.0	1507.2	1507.5	1507.7	1507.8	1507.9	1507.8	1507.3	1506.8	1507.2
1.5°	1506.8	1507.4	1507.5	1507.0	1506.8	1506.9	1507.5	1507.9	1507.4	1508.1	1508.2
2°	1506.6	1507.0	1507.0	1507.0	1507.3	1507.8	1508.1	1508.1	1507.3	1507.4	1507.6
2.5°	1506.0	1506.4	1506.4	1506.6	1506.6	1506.1	1506.3	1506.2	1507.7	1506.8	1506.2
3°	1504.9	1505.3	1505.9	1506.2	1506.6	1506.7	1507.0	1507.3	1506.8	1506.6	1506.6
3.5°	1504.0	1504.7	1505.3	1506.5	1506.0	1506.3	1506.4	1505.9	1506.4	1505.4	1505.0
4°	1503.3	1504.6	1504.2	1505.6	1505.3	1505.5	1505.4	1505.1	1504.4	1506.0	1504.6
4.5°	1501.7	1502.9	1503.3	1504.2	1505.0	1504.9	1504.2	1504.9	1504.4	1504.5	1503.0
5°	1500.7	1501.9	1502.4	1502.9	1503.8	1503.7	1502.4	1502.9	1503.3	1503.3	1502.0
5.5°	1499.7	1500.9	1501.4	1501.7	1502.2	1501.7	1501.3	1501.3	1501.9	1501.6	1500.1
6°	1498.5	1499.5	1499.8	1500.6	1501.3	1500.6	1500.3	1499.8	1500.0	1499.5	1498.0
6.5°	1496.9	1498.2	1498.4	1498.9	1499.7	1499.1	1499.2	1498.2	1498.2	1498.1	1496.5
7°	1495.5	1496.1	1497.4	1497.0	1497.1	1496.2	1497.5	1496.1	1496.0	1495.8	1494.7
7.5°	1493.4	1494.1	1495.2	1496.0	1495.9	1495.2	1494.7	1494.2	1493.6	1492.5	1492.5
8°	1491.8	1491.8	1493.5	1493.7	1493.6	1493.1	1492.5	1492.1	1491.5	1490.8	1490.3
8.5°	1489.0	1489.3	1491.5	1491.2	1491.5	1491.1	1490.2	1489.6	1488.7	1488.1	1487.0
9°	1487.4	1488.7	1488.9	1489.4	1489.5	1488.9	1487.3	1487.0	1485.9	1486.3	1484.2
9.5°	1484.7	1486.0	1487.0	1486.7	1487.0	1485.7	1484.0	1484.0	1483.2	1481.8	1481.2
10°	1481.7	1483.4	1484.2	1484.3	1484.1	1483.1	1481.4	1480.4	1479.9	1480.2	1478.7
10.5°	1478.9	1480.3	1481.7	1481.8	1481.2	1480.0	1478.1	1477.1	1476.5	1476.2	1475.0
11°	1475.8	1476.8	1478.6	1478.6	1478.1	1477.4	1474.4	1474.0	1473.7	1472.7	1471.5
11.5°	1472.6	1474.6	1475.4	1475.7	1474.5	1474.0	1471.1	1470.8	1469.8	1469.1	1467.8
12°	1469.6	1471.4	1472.7	1472.8	1471.4	1470.2	1468.1	1467.0	1464.9	1465.2	1463.2
12.5°	1466.7	1468.1	1469.4	1469.5	1467.5	1466.8	1464.5	1462.9	1461.2	1460.8	1459.6
13°	1463.2	1465.1	1466.1	1465.6	1463.5	1463.1	1460.3	1459.0	1457.4	1455.8	1455.3
13.5°	1459.3	1461.6	1462.7	1462.3	1460.0	1459.1	1455.4	1454.3	1452.8	1451.2	1449.8
14°	1455.7	1457.8	1458.7	1458.9	1456.0	1454.3	1451.6	1449.8	1448.2	1446.2	1445.6
14.5°	1452.0	1454.1	1454.9	1454.9	1451.5	1450.3	1447.7	1445.0	1442.6	1442.1	1440.1
15°	1447.8	1450.2	1450.8	1450.4	1447.8	1446.1	1442.7	1440.2	1438.0	1437.2	1436.0
15.5°	1444.0	1446.3	1446.3	1445.7	1443.8	1441.6	1437.2	1435.7	1432.8	1432.1	1430.2
16°	1439.3	1442.1	1442.5	1441.5	1438.8	1436.4	1432.6	1430.2	1427.9	1426.1	1424.5
16.5°	1434.1	1437.7	1438.4	1437.3	1434.1	1431.4	1427.2	1424.5	1422.2	1419.9	1419.4
17°	1429.4	1433.3	1433.3	1432.7	1429.7	1426.4	1422.1	1418.7	1416.1	1414.9	1414.2
17.5°	1425.4	1428.3	1428.7	1427.6	1424.6	1420.9	1415.8	1413.1	1409.8	1409.2	1407.5
18°	1421.0	1423.2	1424.0	1422.5	1419.1	1415.5	1410.6	1407.2	1404.0	1402.3	1401.6
18.5°	1415.4	1419.0	1419.4	1417.7	1414.0	1410.1	1404.6	1400.8	1398.2	1396.0	1395.1
19°	1410.2	1414.1	1414.5	1412.2	1408.7	1404.1	1399.1	1394.6	1391.4	1389.3	1389.0
19.5°	1404.9	1408.4	1408.6	1406.7	1402.7	1397.8	1392.4	1388.4	1384.4	1383.5	1381.1
20°	1399.6	1402.9	1402.8	1401.1	1397.0	1391.7	1385.7	1381.4	1378.0	1375.4	1374.8
20.5°	1394.3	1397.6	1397.5	1395.4	1391.2	1385.8	1379.1	1374.4	1371.2	1368.7	1367.5
21°	1388.9	1392.2	1391.9	1389.4	1384.6	1379.2	1372.9	1367.5	1364.3	1361.1	1360.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1370.5	1373.9	1374.2	1370.8	1365.8	1359.2	1351.8	1345.9	1341.5	1339.0	1337.4
23°	1365.0	1367.9	1367.6	1364.4	1359.1	1352.4	1344.7	1338.3	1333.6	1331.9	1330.0
23.5°	1358.1	1361.7	1361.3	1357.9	1352.4	1345.0	1337.4	1330.3	1325.5	1323.1	1321.8
24°	1351.6	1355.3	1355.1	1351.0	1345.2	1337.9	1329.2	1322.3	1317.3	1314.9	1313.8
24.5°	1345.4	1348.7	1348.1	1344.4	1337.7	1330.2	1322.4	1314.8	1309.1	1306.4	1304.9
25°	1338.7	1342.3	1341.2	1337.4	1330.8	1322.5	1314.3	1306.5	1300.6	1297.2	1296.6
25.5°	1331.6	1335.1	1334.4	1330.2	1324.1	1314.9	1305.9	1298.0	1292.3	1289.0	1287.6
26°	1324.6	1327.5	1327.2	1322.4	1316.5	1306.7	1297.4	1289.1	1282.9	1279.3	1279.1
26.5°	1317.2	1320.8	1319.2	1315.5	1308.0	1298.6	1288.8	1280.5	1274.2	1270.9	1269.6
27°	1310.0	1314.0	1312.0	1307.5	1300.0	1290.6	1280.4	1271.7	1265.2	1261.1	1261.0
27.5°	1302.7	1306.5	1305.1	1299.5	1292.1	1281.9	1272.6	1262.6	1255.2	1252.5	1251.5
28°	1294.9	1299.0	1297.7	1292.0	1284.1	1273.5	1262.6	1253.8	1246.3	1242.7	1241.5
28.5°	1287.2	1291.2	1289.9	1284.4	1276.2	1265.3	1253.9	1244.6	1236.2	1232.1	1231.7
29°	1280.2	1283.6	1282.1	1276.1	1267.3	1256.3	1245.1	1234.9	1227.7	1223.4	1222.2
29.5°	1272.3	1276.0	1273.9	1268.3	1258.8	1247.5	1236.3	1225.4	1216.7	1213.2	1213.2
30°	1263.9	1267.2	1265.8	1259.3	1250.2	1238.3	1226.3	1215.7	1207.3	1202.9	1203.2
30.5°	1256.0	1259.1	1257.5	1251.5	1241.5	1228.9	1216.9	1205.9	1196.3	1193.0	1192.3
31°	1247.9	1251.5	1248.9	1243.1	1233.1	1220.0	1206.9	1195.8	1187.2	1182.9	1181.7
31.5°	1239.5	1243.2	1240.7	1233.9	1224.1	1211.0	1197.1	1185.4	1176.7	1172.1	1171.1
32°	1230.3	1233.9	1231.8	1224.7	1214.5	1200.9	1187.5	1175.6	1166.3	1161.3	1161.0
32.5°	1221.6	1225.2	1223.1	1215.5	1205.1	1191.2	1177.6	1165.4	1156.5	1150.6	1150.5
33°	1213.3	1216.8	1214.1	1207.1	1195.7	1181.9	1167.8	1154.8	1145.6	1140.3	1140.0
33.5°	1204.2	1207.7	1205.2	1198.1	1186.6	1172.1	1157.6	1144.6	1134.5	1129.2	1128.9
34°	1194.9	1199.0	1196.1	1188.4	1177.1	1161.8	1146.8	1133.7	1123.7	1118.0	1118.0
34.5°	1185.4	1189.7	1186.9	1179.1	1167.5	1151.7	1136.3	1122.3	1112.4	1107.3	1106.7
35°	1176.7	1180.6	1177.9	1169.8	1157.3	1141.7	1126.0	1111.6	1101.0	1096.0	1095.9
35.5°	1167.6	1171.1	1168.9	1160.3	1147.3	1131.1	1115.3	1100.9	1089.9	1085.0	1084.6
36°	1158.1	1162.2	1158.6	1150.7	1137.6	1120.9	1104.7	1089.9	1078.5	1073.8	1073.3
36.5°	1148.3	1152.1	1149.1	1140.3	1127.8	1110.7	1093.9	1078.6	1067.4	1061.7	1062.3
37°	1138.9	1142.2	1139.4	1130.7	1117.4	1100.4	1083.2	1067.8	1055.5	1050.4	1050.7
37.5°	1129.6	1132.4	1129.5	1120.8	1107.0	1089.6	1072.0	1056.4	1044.5	1038.9	1039.1
38°	1120.3	1122.6	1120.0	1110.3	1096.6	1078.8	1060.8	1045.0	1033.3	1027.1	1027.0
38.5°	1109.9	1112.7	1109.1	1100.2	1085.9	1067.9	1049.7	1033.4	1021.8	1016.2	1015.7
39°	1099.1	1102.7	1099.2	1089.8	1075.4	1057.2	1038.7	1022.1	1010.4	1004.0	1003.6
39.5°	1088.5	1092.9	1089.0	1079.5	1064.5	1045.8	1027.6	1010.6	998.1	992.6	992.6
40°	1078.3	1082.3	1079.0	1068.5	1053.8	1034.6	1015.7	999.2	986.4	980.6	980.7
40.5°	1068.6	1071.8	1068.6	1058.3	1042.9	1023.7	1004.3	987.3	974.4	968.7	968.3
41°	1058.2	1061.3	1058.0	1047.5	1032.0	1012.2	993.0	975.8	962.8	957.0	956.3
41.5°	1047.4	1050.6	1047.0	1037.0	1021.1	1001.2	981.2	963.8	950.3	944.7	944.6
42°	1037.1	1040.6	1036.6	1025.7	1010.3	990.1	970.3	952.2	939.1	933.5	932.6
42.5°	1026.7	1029.9	1025.8	1015.4	998.5	978.5	958.6	940.6	927.2	921.2	920.7
43°	1015.8	1018.9	1015.0	1003.7	987.4	967.0	946.8	928.6	915.2	909.5	908.9
43.5°	1004.5	1008.2	1003.9	993.2	976.7	955.6	935.0	916.8	903.2	897.1	897.1



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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	971.5	974.9	970.6	959.2	942.7	920.9	899.9	881.1	867.3	861.2	861.0
45.5°	960.8	963.8	959.3	947.7	930.6	909.2	888.1	869.2	855.8	848.9	849.0
46°	949.2	952.6	948.3	936.5	919.1	897.4	876.0	857.4	844.2	836.6	837.3
46.5°	937.4	940.9	936.7	925.0	907.5	885.6	863.9	845.5	831.6	825.4	825.6
47°	925.9	929.9	925.9	913.5	896.1	873.9	852.2	833.4	819.5	813.5	813.2
47.5°	914.9	918.2	914.2	902.6	884.8	862.3	840.8	821.1	807.7	801.6	801.2
48°	903.8	907.0	902.6	891.2	873.4	850.4	828.9	809.6	796.2	789.3	789.9
48.5°	891.9	894.9	890.7	879.3	861.5	838.8	817.4	797.9	783.9	777.9	778.0
49°	880.8	884.3	879.0	867.0	849.7	827.1	805.3	786.2	772.4	765.8	765.8
49.5°	869.0	872.2	868.3	855.8	837.7	815.2	793.7	774.3	760.4	754.1	754.4
50°	857.3	860.9	856.2	844.4	825.8	803.3	782.1	762.5	749.3	742.1	742.5
50.5°	845.3	849.0	844.5	832.9	814.4	791.6	770.2	750.7	736.9	730.7	730.5
51°	833.7	837.3	832.4	820.4	802.7	779.9	758.5	739.4	726.1	718.9	718.6
51.5°	821.8	825.5	820.7	809.0	790.9	768.1	746.4	727.6	713.9	708.2	707.6
52°	810.3	813.9	809.3	797.1	779.0	756.7	735.1	716.3	702.8	695.9	696.1
52.5°	798.1	801.6	796.8	785.2	767.1	744.5	723.4	704.7	691.6	684.9	684.8
53°	786.2	789.9	785.3	773.2	755.2	732.8	711.6	693.2	680.2	673.2	672.9
53.5°	774.3	777.6	773.1	761.4	743.3	721.2	700.2	681.9	668.0	662.4	661.6
54°	762.4	765.5	761.4	749.8	731.6	709.4	688.7	670.3	657.2	650.6	650.8
54.5°	750.2	753.8	749.1	737.7	720.2	697.6	676.7	658.8	645.6	639.5	639.4
55°	737.9	741.8	737.5	725.9	707.9	685.7	665.3	647.4	634.8	629.2	627.9
55.5°	726.2	729.7	725.2	714.2	696.6	674.5	653.8	635.8	623.3	617.6	616.6
56°	713.8	717.4	713.5	702.1	684.8	663.3	642.9	624.7	612.4	606.3	605.9
56.5°	701.8	705.6	701.4	690.2	673.1	651.6	631.2	613.8	601.6	595.5	595.1
57°	690.2	693.2	689.2	678.2	661.0	639.9	619.8	602.7	590.2	584.8	584.1
57.5°	677.6	681.6	676.7	666.5	649.7	628.7	608.7	591.4	579.7	573.8	573.1
58°	665.3	669.0	665.4	654.1	637.2	617.3	597.6	580.8	568.8	562.6	562.8
58.5°	653.4	656.9	652.9	642.6	625.9	605.5	586.2	569.6	558.1	552.2	551.8
59°	641.0	645.2	640.9	630.6	614.3	594.2	575.0	558.5	547.7	542.1	541.2
59.5°	628.9	632.5	628.8	618.8	602.7	582.8	564.2	548.3	537.2	532.0	530.1
60°	616.4	620.4	617.0	606.8	590.8	571.5	553.0	537.7	526.7	521.3	519.7
60.5°	604.3	607.8	604.7	595.0	579.9	560.3	542.6	527.4	516.1	510.7	509.2
61°	592.1	595.4	592.6	583.3	568.4	549.4	528.9	516.6	505.5	500.0	498.8
61.5°	580.0	583.9	580.2	570.7	556.4	538.0	517.8	505.7	494.9	489.3	488.4
62°	567.6	571.7	568.8	559.3	544.4	526.5	507.7	495.0	484.2	478.7	477.9
62.5°	555.4	559.1	556.7	547.9	533.3	515.4	497.6	484.3	473.7	468.3	467.5
63°	543.1	547.1	544.4	536.0	521.8	504.4	487.5	473.7	463.6	458.4	457.6
63.5°	531.1	534.6	532.3	523.7	510.3	493.3	477.4	463.4	453.7	448.5	447.8
64°	518.6	522.2	519.8	513.2	498.7	482.3	466.6	453.5	443.8	438.7	437.8
64.5°	506.1	509.9	507.7	509.3	487.5	471.3	456.3	443.2	433.8	428.7	427.6
65°	493.7	497.5	495.7	495.1	476.9	460.3	446.0	433.2	423.9	419.2	418.0
65.5°	481.1	485.1	483.6	481.1	465.4	449.4	435.4	423.2	414.2	409.3	408.1
66°	468.6	472.7	471.6	467.0	453.9	438.8	425.2	413.2	404.7	399.7	398.8





TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	432.1	436.0	435.6	430.1	420.3	407.3	394.9	384.3	376.0	371.3	370.1
68°	420.2	424.0	423.5	418.7	409.3	396.8	384.8	374.6	366.8	362.2	360.9
68.5°	407.9	411.9	412.0	406.8	398.2	386.3	375.0	364.9	357.6	353.2	351.2
69°	395.6	399.9	400.1	396.0	387.4	375.8	365.2	355.5	347.9	343.9	342.4
69.5°	383.6	388.2	388.3	384.7	376.8	365.6	355.4	346.0	338.7	334.5	333.1
70°	371.4	376.0	376.6	373.4	366.0	355.5	345.7	336.5	329.7	325.4	324.0
70.5°	359.3	363.9	365.0	361.9	355.6	345.6	336.1	327.4	320.9	316.7	314.9
71°	347.4	351.7	353.3	351.0	344.7	335.4	326.5	318.2	312.0	307.9	306.2
71.5°	335.4	340.1	341.4	339.6	334.2	325.4	317.1	309.3	302.8	299.0	297.5
72°	323.6	328.2	330.1	328.4	323.6	315.5	307.5	300.1	294.0	290.1	288.6
72.5°	311.8	316.2	318.7	317.5	312.9	305.4	298.3	291.0	285.3	281.9	279.9
73°	299.6	304.5	307.5	306.8	302.9	295.6	288.8	282.1	276.7	273.1	271.1
73.5°	287.5	292.9	295.9	295.9	292.4	286.4	279.6	273.3	268.1	264.6	262.7
74°	276.0	280.9	284.6	285.2	282.2	276.7	270.6	264.5	259.8	256.1	254.2
74.5°	264.4	269.6	273.3	274.2	272.2	266.9	261.7	255.9	251.3	248.0	246.3
75°	252.8	258.1	262.2	263.6	262.1	257.5	252.7	247.5	243.0	239.7	237.8
75.5°	241.0	246.8	251.0	253.0	252.2	248.1	243.8	238.9	234.6	231.7	229.6
76°	229.6	235.2	240.1	242.7	242.0	238.7	235.1	230.6	226.6	223.7	221.4
76.5°	218.3	224.2	229.1	232.2	232.4	229.7	226.2	222.2	218.6	215.8	213.5
77°	207.1	212.7	218.4	221.9	222.8	220.7	217.8	213.9	210.6	207.7	205.5
77.5°	195.7	201.8	207.8	211.6	213.2	211.8	209.2	205.9	202.6	200.1	197.7
78°	184.9	190.9	197.0	201.8	203.7	203.0	201.0	198.0	195.2	192.5	190.2
78.5°	173.7	180.2	186.5	191.8	194.4	194.2	192.5	190.1	187.6	184.9	182.7
79°	162.9	169.5	176.4	182.1	185.1	185.4	184.5	182.3	180.0	177.5	175.2
79.5°	152.2	158.6	166.1	172.3	176.1	176.9	176.6	174.7	172.6	170.4	167.9
80°	142.2	148.4	155.9	162.9	167.2	168.6	168.6	167.2	165.4	163.3	160.8
80.5°	131.8	138.3	146.3	153.5	158.3	160.4	160.8	159.8	158.3	156.1	153.8
81°	121.7	128.4	136.6	144.3	149.7	152.4	153.4	152.6	151.3	149.2	146.9
81.5°	111.8	118.5	127.2	135.2	141.3	144.4	146.0	145.7	144.6	142.7	140.2
82°	102.1	108.8	117.8	126.5	132.9	136.7	138.7	138.8	137.9	136.0	133.6
82.5°	92.2	99.5	108.9	117.9	124.8	129.3	131.5	132.0	131.3	129.4	127.0
83°	83.5	90.5	100.0	109.5	116.9	121.9	124.6	125.3	124.8	123.4	120.8
83.5°	74.7	81.8	91.4	101.4	109.4	114.6	117.9	119.0	118.8	117.1	114.7
84°	66.4	73.4	83.1	93.4	101.9	107.7	111.3	112.8	112.6	111.2	108.8
84.5°	58.1	65.1	75.3	85.7	94.6	100.9	104.7	106.6	106.7	105.3	103.0
85°	50.5	57.3	67.6	78.4	87.8	94.4	98.6	100.7	101.0	99.7	97.3
85.5°	43.9	50.3	60.4	71.5	81.0	88.1	92.6	94.9	95.3	94.1	91.9
86°	37.3	43.9	53.4	64.8	74.7	82.1	86.8	89.3	89.8	88.8	86.5
86.5°	30.8	37.5	47.7	58.4	68.6	76.2	81.2	84.0	84.7	83.7	81.4
87°	24.3	31.2	42.1	51.9	62.8	70.5	75.8	78.9	79.7	79.0	76.5
87.5°	18.6	24.8	36.5	47.0	57.1	65.2	70.7	73.8	74.8	74.1	71.8
88°	13.5	19.5	30.9	42.1	51.7	60.1	65.8	68.9	70.2	69.4	67.1
88.5°	9.0	14.9	25.3	37.2	47.4	55.1	60.9	64.4	65.6	65.0	62.8



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	2.9	5.3	14.0	24.4	34.5	43.0	49.1	52.0	53.4	52.8	51.3
90.5°	1.6	4.3	11.2	21.1	30.8	39.1	45.4	48.7	50.1	49.6	48.0
91°	0.3	3.3	9.1	18.1	27.5	35.5	41.8	45.4	46.9	46.5	44.7
91.5°	0.3	2.4	7.3	15.6	24.4	32.1	38.1	42.1	43.7	43.4	41.5
92°	0.2	1.5	6.0	13.4	21.7	29.2	34.9	38.7	40.4	40.2	38.2
92.5°	0.1	1.1	5.3	11.6	19.3	26.4	32.0	35.6	37.2	37.1	35.4
93°	0.1	0.9	4.7	10.0	17.2	24.0	29.3	32.9	34.5	34.5	32.8
93.5°	0.2	0.8	4.0	8.8	15.3	21.7	26.9	30.3	32.0	31.9	30.4
94°	0.2	0.6	3.4	7.8	13.7	19.7	24.6	28.0	29.6	29.6	28.2
94.5°	0.3	0.5	3.1	6.9	12.3	17.8	22.6	25.8	27.4	27.5	26.1
95°	0.3	0.5	2.8	6.4	11.1	16.2	20.7	23.8	25.4	25.5	24.1
95.5°	0.4	0.5	2.5	5.9	10.1	14.8	19.0	22.0	23.6	23.6	22.4
96°	0.4	0.5	2.3	5.5	9.3	13.6	17.5	20.4	21.9	21.9	20.8
96.5°	0.5	0.6	2.0	5.2	8.7	12.6	16.2	18.9	20.4	20.5	19.4
97°	0.6	0.6	1.8	4.8	8.2	11.7	15.1	17.6	19.0	19.1	18.1
97.5°	0.6	0.7	1.7	4.4	7.8	11.0	14.1	16.4	17.8	17.9	17.0
98°	0.7	0.7	1.5	4.1	7.4	10.4	13.2	15.4	16.7	16.9	16.0
98.5°	0.7	0.7	1.4	3.9	6.9	9.9	12.5	14.5	15.7	15.9	15.2
99°	0.8	0.7	1.3	3.6	6.5	9.5	11.9	13.8	14.9	15.1	14.4
99.5°	0.9	0.8	1.2	3.4	6.2	9.0	11.4	13.1	14.2	14.4	13.8
100°	1.0	0.9	1.1	3.1	5.9	8.6	10.9	12.6	13.6	13.8	13.2
100.5°	1.1	0.9	1.1	2.9	5.6	8.2	10.5	12.1	13.1	13.3	12.7
101°	1.1	1.0	1.1	2.7	5.3	7.8	10.0	11.7	12.6	12.8	12.3
101.5°	1.2	1.1	1.1	2.5	5.0	7.4	9.6	11.2	12.1	12.3	11.9
102°	1.3	1.1	1.1	2.3	4.7	7.1	9.2	10.8	11.7	11.9	11.4
102.5°	1.4	1.2	1.1	2.2	4.4	6.7	8.8	10.3	11.3	11.5	11.0
103°	1.5	1.2	1.1	2.0	4.1	6.4	8.4	9.9	10.8	11.0	10.6
103.5°	1.5	1.3	1.1	1.9	3.8	6.1	8.0	9.5	10.4	10.6	10.2
104°	1.5	1.3	1.0	1.8	3.6	5.8	7.7	9.1	10.0	10.2	9.8
104.5°	1.6	1.4	1.0	1.6	3.4	5.5	7.3	8.8	9.6	9.9	9.4
105°	1.6	1.5	1.0	1.6	3.1	5.2	7.0	8.4	9.3	9.5	9.1
105.5°	1.6	1.7	1.0	1.5	3.0	4.9	6.7	8.0	8.9	9.2	8.8
106°	1.6	1.7	1.0	1.4	2.8	4.6	6.4	7.7	8.6	8.8	8.4
106.5°	1.6	1.6	1.1	1.4	2.6	4.4	6.1	7.4	8.3	8.5	8.1
107°	1.6	1.5	1.1	1.4	2.5	4.2	5.8	7.1	7.9	8.2	7.8
107.5°	1.6	1.5	1.1	1.3	2.3	3.9	5.5	6.8	7.6	7.9	7.5
108°	1.6	1.5	1.1	1.3	2.2	3.7	5.3	6.5	7.3	7.6	7.2
108.5°	1.6	1.6	1.2	1.3	2.1	3.5	5.0	6.2	7.0	7.3	6.9
109°	1.6	1.6	1.2	1.2	2.0	3.3	4.7	5.9	6.7	7.0	6.7
109.5°	1.6	1.7	1.2	1.2	1.9	3.1	4.5	5.7	6.5	6.7	6.4
110°	1.6	1.7	1.2	1.2	1.8	3.0	4.2	5.4	6.2	6.4	6.2
110.5°	1.6	1.6	1.3	1.2	1.7	2.8	4.0	5.2	5.9	6.2	5.9
111°	1.6	1.6	1.3	1.2	1.7	2.6	3.8	4.9	5.7	5.9	5.7



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1.7	1.6	1.4	1.3	1.6	2.3	3.3	4.3	5.0	5.2	5.0
113°	1.7	1.6	1.5	1.3	1.5	2.1	3.1	4.0	4.7	4.9	4.8
113.5°	1.7	1.6	1.5	1.3	1.5	2.1	2.9	3.8	4.5	4.7	4.5
114°	1.7	1.6	1.6	1.3	1.5	2.0	2.8	3.7	4.3	4.5	4.4
114.5°	1.8	1.7	1.6	1.4	1.4	2.0	2.6	3.5	4.1	4.3	4.2
115°	1.8	1.7	1.6	1.4	1.4	1.9	2.5	3.3	3.9	4.1	4.0
115.5°	1.8	1.7	1.7	1.4	1.4	1.8	2.4	3.1	3.7	4.0	3.8
116°	1.8	1.8	1.7	1.4	1.4	1.8	2.3	3.0	3.6	3.8	3.7
116.5°	1.8	1.8	1.8	1.5	1.4	1.8	2.3	2.9	3.4	3.6	3.5
117°	1.8	1.8	1.9	1.5	1.4	1.8	2.2	2.8	3.3	3.5	3.4
117.5°	1.8	1.9	2.1	1.5	1.4	1.7	2.2	2.7	3.1	3.3	3.3
118°	1.8	1.9	2.1	1.6	1.5	1.6	2.1	2.6	3.0	3.2	3.2
118.5°	1.8	1.9	2.2	1.6	1.5	1.6	2.0	2.5	2.9	3.1	3.1
119°	1.8	2.0	2.1	1.6	1.5	1.6	2.0	2.4	2.8	3.0	3.0
119.5°	1.8	2.0	2.1	1.7	1.5	1.6	2.0	2.4	2.7	2.9	2.9
120°	1.9	2.0	2.1	1.7	1.6	1.6	1.9	2.3	2.6	2.8	2.8
120.5°	1.9	2.0	2.0	1.7	1.6	1.6	1.9	2.2	2.6	2.8	2.8
121°	1.9	2.0	2.0	1.8	1.6	1.6	1.8	2.2	2.5	2.7	2.7
121.5°	1.9	2.0	2.1	1.8	1.6	1.6	1.7	2.1	2.4	2.6	2.7
122°	1.9	2.1	2.1	1.8	1.7	1.6	1.7	2.1	2.4	2.6	2.6
122.5°	2.0	2.1	2.1	1.9	1.7	1.7	1.7	2.0	2.3	2.5	2.5
123°	2.0	2.1	2.2	1.9	1.8	1.7	1.7	1.9	2.3	2.5	2.5
123.5°	2.0	2.1	2.2	2.0	1.8	1.7	1.7	1.9	2.2	2.4	2.4
124°	2.0	2.1	2.2	2.0	1.8	1.8	1.7	1.8	2.2	2.4	2.4
124.5°	2.0	2.2	2.2	2.1	1.9	1.8	1.7	1.8	2.1	2.3	2.3
125°	2.0	2.2	2.3	2.1	1.9	1.8	1.7	1.8	2.1	2.3	2.3
125.5°	2.1	2.2	2.3	2.2	1.9	1.9	1.8	1.8	2.0	2.2	2.3
126°	2.1	2.2	2.3	2.3	2.0	1.9	1.8	1.8	2.0	2.2	2.3
126.5°	2.1	2.2	2.3	2.3	2.0	1.9	1.8	1.9	2.0	2.2	2.3
127°	2.1	2.2	2.3	2.4	2.0	1.9	1.9	1.9	2.1	2.2	2.3
127.5°	2.2	2.2	2.3	2.5	2.1	2.0	1.9	2.0	2.1	2.2	2.3
128°	2.2	2.2	2.3	2.6	2.1	2.0	1.9	2.0	2.1	2.3	2.4
128.5°	2.2	2.2	2.2	2.6	2.1	2.0	2.0	2.0	2.2	2.3	2.4
129°	2.2	2.2	2.2	2.6	2.2	2.1	2.0	2.1	2.2	2.3	2.4
129.5°	2.2	2.2	2.2	2.6	2.2	2.1	2.1	2.1	2.3	2.4	2.5
130°	2.2	2.2	2.2	2.6	2.3	2.1	2.1	2.2	2.3	2.4	2.5
130.5°	2.2	2.2	2.2	2.6	2.3	2.2	2.2	2.2	2.3	2.5	2.5
131°	2.3	2.3	2.2	2.6	2.4	2.2	2.2	2.3	2.4	2.5	2.6
131.5°	2.3	2.3	2.2	2.6	2.4	2.3	2.3	2.3	2.4	2.5	2.6
132°	2.3	2.3	2.3	2.7	2.5	2.3	2.3	2.4	2.5	2.6	2.7
132.5°	2.3	2.3	2.3	2.7	2.6	2.4	2.4	2.4	2.5	2.6	2.7
133°	2.3	2.3	2.3	2.8	2.7	2.4	2.4	2.5	2.5	2.6	2.7
133.5°	2.3	2.3	2.3	2.8	2.8	2.5	2.5	2.5	2.6	2.7	2.8



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	2.3	2.4	2.4	2.9	3.0	2.7	2.6	2.7	2.7	2.8	2.9
135.5°	2.3	2.4	2.4	2.9	3.1	2.7	2.7	2.7	2.8	2.8	3.0
136°	2.3	2.4	2.5	2.9	3.1	2.8	2.8	2.8	2.8	2.9	3.0
136.5°	2.3	2.4	2.5	2.8	3.1	2.8	2.8	2.8	2.8	2.9	3.0
137°	2.3	2.4	2.5	2.8	3.1	2.9	2.9	2.9	2.9	3.0	3.1
137.5°	2.3	2.5	2.5	2.8	3.1	3.0	2.9	2.9	2.9	3.0	3.1
138°	2.3	2.5	2.6	2.7	3.1	3.1	3.0	3.0	3.0	3.0	3.2
138.5°	2.3	2.6	2.6	2.7	3.1	3.2	3.0	3.0	3.0	3.1	3.2
139°	2.4	2.6	2.6	2.7	3.2	3.4	3.0	3.0	3.0	3.1	3.3
139.5°	2.4	2.6	2.6	2.7	3.2	3.4	3.1	3.1	3.1	3.2	3.3
140°	2.4	2.6	2.6	2.7	3.2	3.4	3.1	3.1	3.1	3.2	3.4
140.5°	2.4	2.7	2.6	2.7	3.2	3.5	3.2	3.2	3.2	3.3	3.5
141°	2.4	2.7	2.7	2.6	3.3	3.5	3.3	3.2	3.2	3.3	3.5
141.5°	2.4	2.7	2.7	2.6	3.3	3.5	3.4	3.2	3.3	3.4	3.6
142°	2.4	2.7	2.7	2.6	3.3	3.6	3.5	3.3	3.3	3.4	3.6
142.5°	2.4	2.7	2.7	2.6	3.2	3.6	3.6	3.3	3.4	3.5	3.7
143°	2.4	2.8	2.7	2.6	3.2	3.5	3.7	3.4	3.4	3.5	3.8
143.5°	2.4	2.8	2.7	2.6	3.2	3.5	3.7	3.5	3.5	3.6	3.8
144°	2.4	2.8	2.8	2.6	3.1	3.5	3.7	3.6	3.5	3.7	3.9
144.5°	2.4	2.8	2.8	2.6	3.1	3.5	3.7	3.7	3.6	3.7	3.9
145°	2.4	2.8	2.8	2.6	3.1	3.5	3.7	3.8	3.7	3.8	4.0
145.5°	2.4	2.8	2.8	2.6	3.0	3.5	3.8	3.9	3.8	3.8	4.1
146°	2.4	2.8	2.8	2.6	3.0	3.5	3.7	4.0	3.9	3.9	4.2
146.5°	2.4	2.8	2.8	2.6	3.0	3.5	3.7	4.0	4.1	4.1	4.3
147°	2.4	2.8	2.8	2.6	2.9	3.5	3.7	4.0	4.2	4.2	4.5
147.5°	2.4	2.8	2.8	2.6	2.9	3.5	3.6	3.9	4.1	4.3	4.5
148°	2.4	2.8	2.8	2.6	2.9	3.4	3.6	3.9	4.1	4.3	4.5
148.5°	2.4	2.8	2.8	2.6	2.8	3.4	3.7	3.9	4.1	4.3	4.4
149°	2.3	2.8	2.8	2.6	2.8	3.4	3.7	3.9	4.1	4.3	4.4
149.5°	2.3	2.8	2.8	2.6	2.8	3.3	3.7	3.9	4.1	4.3	4.4
150°	2.3	2.7	2.8	2.6	2.7	3.3	3.6	3.9	4.1	4.3	4.4
150.5°	2.3	2.7	2.8	2.6	2.7	3.2	3.6	3.8	4.1	4.2	4.3
151°	2.2	2.7	2.8	2.6	2.7	3.2	3.6	3.9	4.0	4.1	4.3
151.5°	2.1	2.7	2.8	2.7	2.7	3.1	3.6	3.9	4.0	4.1	4.3
152°	2.1	2.6	2.9	2.7	2.7	3.1	3.5	3.8	4.0	4.1	4.3
152.5°	2.1	2.6	2.9	2.7	2.7	3.0	3.5	3.8	4.0	4.1	4.3
153°	2.1	2.6	2.9	2.7	2.7	3.0	3.4	3.8	4.0	4.1	4.2
153.5°	1.9	2.6	2.9	2.7	2.7	2.9	3.3	3.7	3.9	4.1	4.2
154°	1.8	2.5	2.9	2.8	2.7	2.9	3.3	3.6	3.9	4.0	4.1
154.5°	1.7	2.5	2.9	2.8	2.7	2.9	3.2	3.6	3.8	3.9	4.0
155°	1.7	2.5	2.9	2.8	2.7	2.8	3.2	3.5	3.7	3.9	3.9
155.5°	1.8	2.5	2.9	2.8	2.8	2.8	3.1	3.4	3.6	3.8	3.8
156°	1.7	2.5	2.9	2.8	2.8	2.8	3.0	3.4	3.6	3.7	3.7



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	1.6	2.4	2.9	2.8	2.9	2.9	2.9	3.1	3.3	3.5	3.5
158°	1.6	2.5	2.9	2.9	2.9	2.9	2.9	3.1	3.3	3.4	3.4
158.5°	1.6	2.5	2.9	2.9	2.9	2.9	2.9	3.0	3.2	3.3	3.3
159°	1.6	2.4	2.9	2.9	2.9	2.9	2.9	3.0	3.1	3.2	3.3
159.5°	1.6	2.4	2.8	2.9	3.0	2.9	2.9	3.0	3.1	3.2	3.2
160°	1.6	2.4	2.8	2.9	3.0	3.0	2.9	3.0	3.0	3.1	3.2
160.5°	1.6	2.3	2.8	2.9	3.0	3.0	3.0	3.0	3.0	3.1	3.1
161°	1.6	2.3	2.8	2.9	3.0	3.0	3.0	3.0	3.0	3.1	3.1
161.5°	1.6	2.3	2.8	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.1
162°	1.6	2.3	2.8	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.1
162.5°	1.6	2.3	2.7	2.9	3.1	3.1	3.1	3.0	3.0	3.0	3.1
163°	1.6	2.2	2.7	2.9	3.1	3.1	3.1	3.1	3.0	3.1	3.1
163.5°	1.6	2.2	2.7	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1
164°	1.6	2.1	2.7	2.9	3.1	3.2	3.1	3.1	3.1	3.1	3.1
164.5°	1.6	2.0	2.7	2.9	3.1	3.2	3.2	3.1	3.1	3.1	3.2
165°	1.7	2.0	2.7	2.9	3.1	3.2	3.2	3.2	3.1	3.1	3.2
165.5°	1.7	2.0	2.6	2.9	3.1	3.2	3.2	3.2	3.2	3.2	3.2
166°	1.7	2.0	2.7	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2
166.5°	1.7	2.0	2.8	2.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2
167°	1.7	2.0	2.6	2.8	3.1	3.2	3.2	3.3	3.2	3.2	3.3
167.5°	1.7	2.1	2.5	2.8	3.0	3.2	3.3	3.3	3.3	3.2	3.3
168°	1.7	2.1	2.5	2.6	3.0	3.2	3.3	3.3	3.3	3.3	3.3
168.5°	1.7	2.0	2.7	2.6	3.1	3.2	3.3	3.3	3.3	3.3	3.3
169°	1.8	1.8	2.5	2.7	3.0	3.2	3.3	3.3	3.3	3.3	3.3
169.5°	1.8	2.0	2.2	2.8	2.7	3.1	3.3	3.3	3.3	3.3	3.3
170°	1.9	2.2	2.3	2.6	2.7	3.0	3.3	3.3	3.3	3.3	3.3
170.5°	2.1	2.1	2.5	2.5	3.0	3.1	3.3	3.3	3.3	3.3	3.3
171°	2.4	2.2	2.5	2.6	2.9	3.0	3.2	3.3	3.3	3.3	3.3
171.5°	2.4	2.4	2.4	2.6	2.5	2.7	3.1	3.3	3.3	3.3	3.3
172°	2.4	2.5	2.4	2.5	2.6	2.6	3.1	3.3	3.3	3.3	3.3
172.5°	2.5	2.5	2.5	2.5	2.7	2.9	3.0	3.2	3.2	3.2	3.2
173°	2.5	2.5	2.6	2.6	2.6	2.8	3.0	3.1	3.2	3.2	3.2
173.5°	2.5	2.6	2.6	2.6	2.6	2.6	3.0	3.1	3.1	3.1	3.1
174°	2.6	2.6	2.7	2.5	2.7	2.8	2.9	3.0	3.1	3.1	3.1
174.5°	2.7	2.7	2.8	2.6	2.5	2.6	2.7	2.9	3.1	3.1	3.1
175°	2.8	2.8	2.8	2.7	2.5	2.6	2.8	3.0	3.1	3.0	3.1
175.5°	2.8	2.8	2.8	2.7	2.6	2.5	2.8	3.0	3.1	3.0	3.0
176°	2.8	2.8	2.8	2.7	2.5	2.4	2.6	2.9	3.1	3.0	3.0
176.5°	2.8	2.8	2.8	2.8	2.6	2.5	2.6	2.8	3.0	3.0	3.0
177°	2.8	2.8	2.9	2.9	2.6	2.5	2.6	2.8	2.9	2.9	2.9
177.5°	2.8	2.8	2.9	2.8	2.5	2.4	2.6	2.7	2.9	2.9	2.8
178°	2.8	2.8	2.8	2.7	2.6	2.5	2.4	2.6	2.8	2.9	2.7
178.5°	2.9	2.9	2.8	2.7	2.4	2.3	2.3	2.5	2.7	2.9	2.7



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
0.5°	1507.7	1507.6	1507.5	1507.3	1507.2	1507.0	1506.9	1506.8	1506.7	1506.7	1506.8
1°	1507.6	1507.8	1508.0	1508.2	1508.0	1507.7	1507.3	1506.9	1506.6	1506.4	1506.3
1.5°	1508.1	1507.9	1507.5	1506.8	1506.3	1506.3	1506.3	1506.1	1505.8	1505.6	1505.5
2°	1508.0	1506.9	1505.6	1505.6	1505.6	1505.0	1504.8	1504.9	1504.6	1504.5	1504.4
2.5°	1506.8	1506.6	1506.8	1505.9	1505.8	1505.4	1504.6	1504.4	1504.1	1503.9	1503.5
3°	1506.2	1505.9	1505.6	1504.9	1504.9	1504.6	1504.3	1503.8	1502.6	1501.6	1501.9
3.5°	1505.0	1504.7	1504.6	1504.7	1504.0	1502.9	1502.7	1502.9	1501.1	1500.5	1500.2
4°	1504.7	1504.0	1503.4	1503.4	1503.2	1502.5	1501.4	1501.7	1500.7	1499.4	1498.5
4.5°	1502.0	1502.8	1501.3	1502.2	1502.3	1501.2	1500.0	1499.3	1498.8	1497.8	1497.0
5°	1501.3	1501.3	1501.0	1500.3	1500.6	1500.0	1499.0	1498.1	1497.5	1496.6	1494.7
5.5°	1500.5	1499.8	1499.5	1498.7	1499.0	1497.9	1497.7	1496.7	1496.1	1495.0	1492.9
6°	1498.7	1498.1	1497.4	1497.1	1496.9	1496.3	1495.9	1494.8	1493.9	1493.2	1490.5
6.5°	1496.6	1496.1	1495.7	1495.1	1494.7	1495.3	1494.3	1492.9	1491.2	1491.1	1488.4
7°	1494.7	1493.8	1494.3	1493.3	1493.0	1493.1	1492.4	1490.5	1488.9	1488.3	1486.4
7.5°	1492.2	1491.6	1491.7	1491.8	1490.6	1490.7	1489.8	1488.9	1486.5	1486.1	1484.4
8°	1489.9	1489.6	1489.1	1489.2	1488.8	1488.8	1486.9	1485.9	1484.2	1483.6	1481.2
8.5°	1486.8	1486.9	1486.4	1486.2	1486.6	1485.7	1485.5	1483.5	1482.5	1480.7	1478.6
9°	1483.9	1484.2	1483.8	1483.8	1484.2	1483.0	1482.5	1481.5	1479.1	1477.7	1475.7
9.5°	1481.4	1481.5	1480.7	1480.8	1480.9	1480.7	1479.2	1478.1	1475.7	1474.5	1472.0
10°	1478.1	1478.2	1477.5	1478.4	1478.0	1476.7	1476.8	1475.3	1472.9	1471.4	1468.8
10.5°	1474.7	1475.1	1473.7	1475.3	1474.8	1474.0	1474.1	1472.5	1470.3	1467.6	1465.6
11°	1470.6	1471.9	1471.3	1472.4	1471.8	1471.4	1470.9	1469.3	1466.7	1463.9	1461.7
11.5°	1466.8	1468.2	1467.4	1468.4	1468.4	1468.5	1467.3	1465.4	1462.7	1460.8	1457.7
12°	1463.1	1463.9	1463.7	1464.4	1465.2	1464.4	1463.7	1461.9	1459.6	1457.4	1453.9
12.5°	1459.2	1460.2	1460.1	1460.4	1461.6	1460.8	1460.0	1458.5	1456.2	1452.9	1450.3
13°	1455.0	1456.0	1455.6	1456.1	1457.2	1456.8	1456.6	1454.9	1452.8	1448.8	1446.3
13.5°	1450.3	1450.9	1451.0	1452.3	1453.0	1452.7	1452.6	1450.9	1448.0	1444.5	1441.2
14°	1445.3	1446.4	1447.2	1448.3	1449.0	1448.8	1448.5	1447.3	1443.7	1440.3	1436.6
14.5°	1440.4	1441.6	1442.6	1443.6	1444.9	1444.7	1444.3	1442.7	1440.1	1435.6	1431.9
15°	1435.3	1437.2	1437.7	1439.1	1440.9	1440.1	1440.2	1437.9	1435.7	1430.4	1427.1
15.5°	1430.0	1432.6	1433.2	1434.6	1436.4	1435.3	1435.9	1433.4	1430.6	1425.9	1422.3
16°	1424.4	1426.9	1428.0	1429.4	1431.2	1431.0	1431.1	1429.2	1425.8	1421.7	1417.5
16.5°	1419.0	1421.6	1422.7	1424.3	1426.0	1426.4	1425.9	1424.8	1421.4	1416.8	1411.9
17°	1413.2	1415.7	1417.1	1418.9	1421.3	1421.2	1421.1	1419.9	1416.3	1411.3	1406.0
17.5°	1407.3	1410.3	1411.8	1413.6	1416.4	1416.5	1417.0	1414.6	1410.9	1406.2	1400.6
18°	1401.5	1403.8	1406.3	1408.8	1410.8	1410.9	1411.3	1409.0	1405.3	1400.7	1394.7
18.5°	1395.0	1397.2	1400.7	1402.9	1405.4	1405.2	1405.2	1403.9	1400.0	1394.6	1388.5
19°	1388.2	1390.8	1394.2	1396.5	1399.8	1400.1	1400.2	1398.5	1395.0	1388.7	1382.8
19.5°	1381.5	1384.4	1387.9	1390.9	1393.7	1394.2	1394.5	1392.8	1389.0	1382.9	1376.4
20°	1375.5	1378.5	1381.7	1384.9	1387.6	1388.7	1388.7	1387.2	1383.3	1376.9	1370.2
20.5°	1368.5	1371.6	1375.5	1378.1	1381.9	1382.5	1382.6	1381.5	1377.4	1370.8	1363.6
21°	1361.2	1365.3	1368.3	1371.7	1375.3	1376.9	1376.8	1375.2	1371.2	1364.2	1357.2



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1338.8	1342.5	1347.2	1352.1	1355.8	1357.9	1357.9	1355.7	1351.8	1344.1	1336.9
23°	1331.0	1335.1	1340.3	1344.9	1349.0	1350.9	1351.1	1349.0	1345.1	1337.7	1329.2
23.5°	1323.1	1327.4	1332.6	1337.2	1342.4	1344.6	1344.8	1342.7	1338.2	1331.2	1322.1
24°	1314.6	1320.0	1324.7	1330.1	1335.0	1337.4	1337.8	1336.0	1331.5	1323.9	1314.8
24.5°	1306.4	1311.6	1317.2	1322.5	1327.6	1330.4	1331.3	1329.1	1324.4	1316.5	1307.2
25°	1298.5	1303.4	1309.5	1314.9	1320.2	1323.4	1324.4	1322.0	1317.2	1308.8	1299.3
25.5°	1289.8	1295.4	1301.2	1306.9	1312.5	1316.0	1316.8	1314.6	1309.8	1301.4	1291.9
26°	1281.2	1286.9	1293.2	1298.8	1305.1	1308.3	1309.1	1307.7	1302.5	1293.7	1283.8
26.5°	1272.5	1277.9	1284.6	1290.8	1297.7	1301.2	1301.7	1300.1	1294.6	1286.2	1275.8
27°	1263.2	1269.5	1276.1	1282.8	1289.2	1293.2	1294.1	1292.0	1287.1	1278.2	1267.6
27.5°	1254.3	1260.3	1267.6	1274.4	1281.6	1285.1	1286.1	1284.4	1279.3	1270.3	1259.2
28°	1244.7	1251.6	1258.4	1266.3	1273.1	1276.8	1278.0	1276.6	1271.2	1262.2	1250.6
28.5°	1235.4	1242.1	1249.9	1257.7	1264.5	1269.0	1270.2	1268.8	1263.2	1253.8	1242.5
29°	1225.8	1232.9	1241.1	1248.3	1256.5	1261.3	1262.4	1260.5	1255.0	1245.5	1233.7
29.5°	1215.7	1222.8	1231.7	1239.5	1247.8	1252.2	1254.4	1252.3	1246.3	1236.9	1224.5
30°	1206.4	1213.8	1222.5	1231.0	1239.0	1244.6	1245.4	1243.9	1237.7	1228.3	1215.9
30.5°	1196.4	1203.3	1213.1	1222.2	1230.1	1235.6	1236.6	1234.9	1230.0	1219.4	1206.7
31°	1185.6	1194.2	1203.7	1212.5	1221.4	1226.3	1228.6	1227.1	1221.0	1210.2	1197.7
31.5°	1175.3	1184.2	1194.0	1202.9	1212.6	1217.9	1219.6	1217.9	1211.7	1201.8	1188.5
32°	1165.1	1173.8	1184.0	1193.9	1202.9	1208.7	1210.4	1209.2	1203.4	1192.6	1179.1
32.5°	1154.6	1164.0	1174.4	1184.2	1193.4	1199.8	1201.7	1200.5	1194.0	1183.5	1169.8
33°	1144.1	1153.3	1164.5	1174.6	1184.8	1190.3	1192.8	1191.0	1185.1	1174.2	1159.8
33.5°	1133.4	1143.0	1154.2	1165.1	1174.8	1181.2	1183.1	1182.2	1175.8	1164.6	1150.2
34°	1122.7	1132.4	1144.0	1155.0	1164.7	1171.7	1173.9	1173.3	1166.5	1155.1	1140.5
34.5°	1112.2	1121.8	1133.6	1144.9	1155.2	1162.6	1164.7	1163.6	1156.6	1145.9	1131.9
35°	1101.0	1110.7	1123.1	1134.5	1145.7	1152.6	1155.4	1154.0	1147.4	1136.1	1122.4
35.5°	1089.4	1100.4	1112.5	1124.3	1135.7	1142.3	1145.6	1144.3	1137.9	1127.0	1111.7
36°	1078.1	1089.2	1101.9	1114.4	1125.2	1133.1	1135.9	1135.1	1128.5	1116.6	1101.1
36.5°	1067.0	1077.9	1091.4	1104.2	1115.3	1123.3	1126.2	1125.5	1118.2	1106.3	1090.6
37°	1055.7	1067.1	1080.4	1092.9	1105.6	1113.5	1116.2	1115.3	1108.1	1096.0	1080.0
37.5°	1044.6	1055.6	1069.5	1082.8	1094.9	1103.3	1106.1	1105.0	1097.9	1085.7	1069.5
38°	1032.9	1044.7	1058.9	1072.4	1084.8	1092.8	1095.9	1094.8	1087.7	1075.4	1059.0
38.5°	1021.8	1032.9	1048.0	1061.4	1073.4	1082.2	1085.8	1084.7	1077.5	1065.1	1048.2
39°	1010.1	1022.1	1036.7	1050.4	1063.2	1071.7	1075.3	1074.2	1067.0	1054.6	1037.8
39.5°	998.8	1010.5	1025.4	1039.5	1052.5	1061.2	1064.6	1063.5	1056.3	1044.3	1026.7
40°	986.8	998.8	1014.0	1028.6	1041.7	1050.9	1054.3	1053.1	1046.0	1033.4	1016.1
40.5°	974.7	987.3	1002.3	1017.9	1030.5	1040.2	1043.6	1042.2	1035.4	1022.9	1005.3
41°	962.7	975.4	991.2	1006.3	1020.0	1029.0	1032.7	1031.7	1024.7	1012.4	994.4
41.5°	951.4	963.9	979.8	994.9	1008.6	1018.2	1022.1	1021.0	1014.2	1001.0	983.0
42°	939.8	952.8	968.4	983.7	997.6	1007.1	1010.8	1010.6	1002.9	989.6	971.9
42.5°	928.1	940.9	956.9	972.5	986.2	996.0	1000.0	999.4	992.2	978.9	960.4
43°	916.2	928.4	945.1	961.1	975.2	985.7	989.0	988.3	981.0	968.0	950.2
43.5°	903.9	917.3	933.7	949.7	964.2	974.0	977.9	977.2	969.7	956.8	938.6





TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	868.6	881.8	898.6	915.0	930.3	940.2	944.0	943.6	936.4	922.6	904.2
45.5°	856.3	869.6	886.9	903.5	918.1	928.2	933.0	932.3	924.5	911.1	892.7
46°	844.3	857.5	875.0	891.6	906.5	917.3	921.2	920.7	912.8	899.9	881.2
46.5°	832.3	846.1	862.7	879.8	894.6	905.3	909.6	908.9	901.5	888.4	869.8
47°	820.5	833.7	850.9	868.4	883.5	894.3	898.3	897.5	889.8	876.7	858.0
47.5°	808.6	822.6	839.1	856.3	871.9	882.7	886.0	885.9	878.4	865.0	846.3
48°	796.7	809.9	827.2	844.5	860.0	870.9	874.6	873.9	866.8	853.6	834.7
48.5°	784.9	798.3	816.0	832.9	847.7	858.6	862.7	862.4	855.0	841.7	822.6
49°	772.8	786.6	804.2	821.0	836.6	847.1	851.1	850.8	843.6	829.8	811.2
49.5°	761.4	774.9	792.2	809.0	824.2	835.7	839.7	838.9	831.5	818.0	799.7
50°	749.7	762.5	780.2	796.8	813.0	823.7	827.8	827.2	819.7	806.5	787.7
50.5°	737.9	751.0	768.3	785.4	800.8	811.9	815.9	815.2	808.1	794.4	775.6
51°	725.9	739.2	756.5	773.8	789.2	799.7	803.7	803.2	795.6	782.5	764.0
51.5°	714.6	728.1	744.6	761.8	776.9	788.3	791.7	791.3	784.0	771.0	752.1
52°	703.0	715.8	732.9	749.6	765.3	775.5	780.0	779.4	772.1	758.6	740.2
52.5°	691.6	704.3	721.1	737.9	753.1	763.9	768.2	768.5	760.0	746.5	728.4
53°	680.1	692.8	709.2	726.2	741.5	751.8	756.9	756.4	747.9	734.7	716.7
53.5°	668.6	681.4	697.8	714.2	729.6	740.1	746.0	743.0	736.0	723.1	704.7
54°	657.1	668.9	686.3	702.3	717.6	727.8	733.1	730.9	723.5	710.8	693.2
54.5°	646.0	658.0	674.3	690.6	705.2	716.2	719.8	718.9	711.6	699.0	681.4
55°	634.3	646.7	662.8	678.8	693.6	703.9	707.6	706.5	699.4	687.0	669.3
55.5°	622.9	635.4	651.5	667.1	681.3	691.9	695.1	694.2	687.1	674.9	657.3
56°	611.7	623.8	639.7	655.1	669.4	679.3	683.0	683.4	675.4	662.7	645.6
56.5°	600.7	612.5	628.0	643.4	657.5	667.2	671.6	671.2	663.4	650.8	633.8
57°	589.9	601.2	616.2	631.8	645.6	655.3	660.8	657.4	651.5	638.8	621.9
57.5°	578.7	590.2	604.7	620.5	633.6	643.4	648.1	645.5	638.4	626.7	610.2
58°	567.6	579.0	593.7	608.7	621.4	631.3	634.0	633.3	626.4	614.7	598.3
58.5°	557.0	567.7	582.0	596.5	609.4	618.9	621.9	621.4	614.1	603.0	586.4
59°	546.3	556.6	570.4	584.6	597.9	606.7	610.0	609.3	602.3	590.7	574.5
59.5°	535.3	545.9	559.2	573.1	586.0	595.4	598.8	596.2	589.8	578.5	563.1
60°	524.8	535.0	547.9	561.8	575.0	583.4	586.1	584.1	577.7	566.7	550.9
60.5°	514.2	524.1	536.9	550.2	563.4	570.6	572.7	572.0	565.1	554.5	539.4
61°	503.6	513.2	526.1	538.8	550.8	557.9	560.2	559.8	553.1	542.3	527.7
61.5°	493.0	502.2	514.8	527.8	538.4	546.2	548.4	547.1	540.5	530.2	515.7
62°	482.5	491.3	503.6	516.2	530.1	535.4	537.0	535.0	528.3	518.5	504.1
62.5°	471.8	480.3	492.3	504.9	517.6	531.5	521.3	522.4	516.3	506.5	492.3
63°	461.3	469.8	481.0	493.0	505.9	516.7	509.2	510.4	504.3	494.5	481.2
63.5°	451.3	459.3	469.8	481.1	492.8	502.4	497.5	497.9	491.6	482.6	469.5
64°	441.3	449.0	458.9	469.4	479.7	488.2	485.6	485.4	479.6	470.7	457.9
64.5°	431.2	438.3	448.2	458.1	467.6	473.9	473.8	473.1	467.5	458.6	446.2
65°	421.2	428.2	437.6	447.1	455.6	461.2	461.6	461.2	455.5	446.7	435.1
65.5°	411.3	418.1	426.8	435.8	443.9	448.9	450.0	448.7	443.2	434.9	423.5
66°	401.3	407.9	416.0	424.9	432.3	438.0	437.9	436.4	431.3	423.2	411.9



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	372.6	377.7	385.1	392.1	398.1	401.4	401.0	400.0	395.1	387.9	378.2
68°	362.9	367.9	374.7	381.1	386.5	389.8	388.8	388.0	383.0	376.1	366.6
68.5°	353.5	358.0	364.1	370.2	375.2	377.9	377.2	375.8	370.8	364.3	355.7
69°	344.0	348.0	354.0	359.3	363.7	366.1	365.0	363.5	358.7	352.9	344.5
69.5°	334.4	338.2	343.8	348.7	352.8	354.7	353.2	351.2	347.0	341.4	333.7
70°	324.9	328.7	333.8	338.3	341.6	342.7	340.9	339.5	335.2	329.8	322.6
70.5°	316.0	319.3	323.9	327.7	330.4	330.9	329.0	327.5	323.0	318.5	311.5
71°	307.1	309.9	313.9	317.3	319.4	319.6	317.0	315.7	311.6	306.7	300.4
71.5°	297.9	300.7	304.0	306.7	308.4	307.9	305.3	303.7	299.7	295.5	289.8
72°	288.8	291.2	294.1	296.4	297.5	296.6	293.7	291.8	287.9	284.1	279.1
72.5°	280.0	281.8	284.4	286.0	286.9	285.4	281.9	279.9	276.2	273.0	268.5
73°	271.1	272.5	274.7	275.9	276.2	274.0	270.3	268.1	264.7	261.7	257.6
73.5°	262.4	263.4	265.2	265.9	265.5	262.9	258.8	256.5	253.3	250.7	247.3
74°	254.0	254.6	255.9	256.1	254.8	251.7	247.3	245.0	242.1	239.7	236.8
74.5°	245.3	245.7	246.5	246.0	244.2	240.7	235.8	233.3	230.6	228.6	226.7
75°	236.8	236.8	237.1	235.9	233.7	229.8	224.6	222.0	219.5	218.0	216.5
75.5°	228.5	228.1	227.9	226.3	223.5	218.9	213.4	210.7	208.2	207.4	206.5
76°	220.2	219.6	218.7	216.7	213.4	208.2	202.3	199.5	197.3	196.8	196.3
76.5°	212.1	211.0	209.7	207.0	203.3	197.7	191.1	188.3	186.4	186.5	186.7
77°	203.9	202.5	201.1	198.0	193.2	187.1	180.5	177.4	175.7	176.1	177.0
77.5°	196.0	194.3	192.2	188.6	183.4	176.7	169.7	166.6	164.9	166.1	167.6
78°	188.2	186.2	183.5	179.4	173.7	166.6	159.2	155.9	154.6	155.9	157.8
78.5°	180.5	178.1	175.2	170.6	164.3	156.6	148.9	145.4	144.3	146.2	148.9
79°	172.9	170.3	166.8	161.7	155.0	146.8	138.8	135.5	134.6	137.1	140.3
79.5°	165.5	162.5	158.6	152.8	145.8	137.1	128.5	125.6	124.9	128.0	131.8
80°	158.1	154.9	150.6	144.4	136.7	127.4	118.8	115.7	115.2	118.9	123.2
80.5°	150.9	147.4	142.7	135.8	127.8	118.3	109.3	105.8	105.6	109.8	114.7
81°	144.0	140.2	135.0	127.8	119.2	109.3	100.1	96.3	96.4	100.7	106.2
81.5°	137.1	133.0	127.5	119.8	111.0	100.6	90.9	86.7	87.7	92.1	98.2
82°	130.2	125.9	120.2	112.3	102.6	92.0	82.1	77.9	78.8	83.8	90.4
82.5°	123.6	119.1	113.0	104.6	94.7	83.7	73.8	69.6	70.5	76.0	83.0
83°	117.3	112.5	106.1	97.5	87.1	75.7	65.6	61.3	62.6	68.4	75.8
83.5°	111.1	106.2	99.4	90.4	79.7	68.2	57.9	53.6	55.2	61.1	69.0
84°	105.0	99.9	93.0	83.6	72.6	60.8	50.5	46.1	47.8	54.1	62.4
84.5°	99.2	93.9	86.6	76.9	65.8	53.8	44.2	39.0	41.0	47.5	56.2
85°	93.4	88.0	80.4	70.8	59.4	48.2	38.0	32.5	34.5	41.5	50.4
85.5°	87.8	82.3	74.7	64.9	53.4	42.5	31.8	26.3	28.6	35.8	45.0
86°	82.5	76.9	69.2	59.2	48.5	36.9	25.5	21.9	23.1	30.7	39.9
86.5°	77.5	71.8	63.8	53.9	43.5	31.3	20.2	17.4	19.5	25.8	35.2
87°	72.5	66.7	58.7	49.6	38.6	25.6	15.6	13.0	15.9	21.7	30.8
87.5°	67.7	61.8	54.1	45.2	33.7	21.3	11.6	8.6	12.3	18.9	26.8
88°	63.1	57.3	50.0	40.8	28.8	17.5	8.3	4.1	8.7	16.2	23.3
88.5°	58.8	52.8	46.1	36.4	25.0	14.3	5.8	1.9	5.3	13.4	20.2



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	47.6	42.1	34.4	25.4	15.9	7.4	2.6	0.6	2.2	6.7	14.2
90.5°	44.3	38.5	31.2	22.5	13.6	6.0	1.6	0.5	1.9	5.8	12.5
91°	40.9	35.3	28.3	20.0	11.7	5.3	1.2	0.3	1.7	5.1	10.9
91.5°	37.7	32.4	25.6	17.7	10.0	4.6	0.9	0.2	1.5	4.6	9.2
92°	34.7	29.6	23.1	15.8	8.8	4.0	0.8	0.3	1.3	4.2	8.4
92.5°	32.0	27.1	20.9	14.0	7.7	3.3	0.6	0.3	1.3	4.0	7.8
93°	29.6	24.9	19.0	12.6	6.9	3.0	0.5	0.4	1.1	3.7	7.3
93.5°	27.3	22.8	17.2	11.3	6.3	2.7	0.5	0.4	1.0	3.5	7.0
94°	25.2	20.9	15.6	10.3	5.8	2.4	0.5	0.5	1.0	3.5	6.6
94.5°	23.2	19.2	14.3	9.4	5.5	2.2	0.5	0.5	1.0	3.4	6.4
95°	21.5	17.6	13.1	8.8	5.2	2.1	0.5	0.6	1.0	3.4	6.1
95.5°	19.9	16.3	12.2	8.2	4.8	1.9	0.6	0.7	1.0	3.3	5.9
96°	18.4	15.1	11.4	7.8	4.5	1.8	0.7	0.7	1.0	3.2	5.8
96.5°	17.2	14.1	10.7	7.4	4.2	1.7	0.8	0.8	1.0	3.1	5.7
97°	16.1	13.3	10.2	7.0	4.0	1.6	0.8	0.9	1.0	3.0	5.6
97.5°	15.1	12.5	9.7	6.7	3.8	1.5	0.9	1.0	1.0	2.8	5.5
98°	14.3	11.9	9.2	6.4	3.6	1.4	1.0	1.1	1.0	2.8	5.4
98.5°	13.6	11.4	8.9	6.1	3.4	1.3	1.1	1.2	1.1	2.7	5.4
99°	12.9	10.9	8.5	5.8	3.2	1.3	1.1	1.3	1.2	2.7	5.3
99.5°	12.4	10.5	8.1	5.5	3.0	1.3	1.2	1.4	1.3	2.7	5.1
100°	12.0	10.1	7.8	5.2	2.8	1.3	1.3	1.6	1.4	2.7	5.0
100.5°	11.5	9.7	7.5	4.9	2.7	1.3	1.4	1.7	1.5	2.6	4.9
101°	11.1	9.3	7.1	4.7	2.5	1.3	1.4	1.8	1.6	2.6	4.8
101.5°	10.7	9.0	6.8	4.4	2.4	1.3	1.5	1.8	1.6	2.5	4.7
102°	10.3	8.6	6.5	4.2	2.2	1.3	1.5	1.9	1.7	2.4	4.6
102.5°	9.9	8.3	6.2	4.0	2.1	1.3	1.7	2.0	1.8	2.4	4.5
103°	9.5	7.9	6.0	3.8	2.0	1.3	1.8	2.0	1.8	2.3	4.4
103.5°	9.2	7.6	5.7	3.6	1.9	1.4	1.8	2.1	1.9	2.2	4.3
104°	8.8	7.3	5.5	3.5	1.9	1.5	1.9	2.1	2.0	2.2	4.2
104.5°	8.5	7.0	5.2	3.3	1.9	1.6	2.0	2.2	2.1	2.1	4.1
105°	8.2	6.7	5.0	3.1	1.9	1.7	2.1	2.2	2.1	2.1	4.0
105.5°	7.8	6.4	4.8	3.0	1.8	1.8	2.5	2.3	2.2	2.1	3.9
106°	7.5	6.2	4.6	2.8	1.8	1.8	2.8	2.4	2.3	2.1	3.7
106.5°	7.2	5.9	4.4	2.7	1.8	1.8	3.0	2.5	2.5	2.1	3.5
107°	6.9	5.7	4.2	2.6	1.8	1.8	3.3	2.5	2.8	2.0	3.4
107.5°	6.6	5.5	4.0	2.5	1.8	1.9	3.3	2.5	3.0	2.0	3.3
108°	6.4	5.2	3.8	2.4	1.8	2.0	3.3	2.6	3.0	2.0	3.2
108.5°	6.1	5.0	3.6	2.3	1.8	2.0	3.2	2.6	2.9	2.1	3.1
109°	5.9	4.7	3.4	2.3	1.9	2.1	3.2	2.7	2.9	2.1	3.0
109.5°	5.7	4.5	3.3	2.2	2.0	2.1	3.1	2.7	3.0	2.2	3.0
110°	5.4	4.3	3.1	2.1	2.0	2.2	3.1	2.7	3.0	2.2	2.9
110.5°	5.2	4.1	3.0	2.1	2.0	2.3	3.1	2.8	3.1	2.3	2.9
111°	5.0	3.9	2.9	2.1	2.1	2.4	3.1	2.8	3.2	2.4	2.8



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	4.4	3.5	2.6	2.0	2.1	2.8	3.2	2.9	3.4	2.5	2.7
113°	4.2	3.3	2.5	2.0	2.2	2.9	3.2	2.9	3.5	2.6	2.7
113.5°	4.0	3.2	2.4	2.0	2.2	3.0	3.3	3.0	3.5	2.6	2.6
114°	3.9	3.1	2.4	2.1	2.3	3.2	3.3	3.0	3.6	2.6	2.5
114.5°	3.7	3.0	2.4	2.1	2.4	3.3	3.3	3.0	3.6	2.7	2.4
115°	3.6	3.0	2.4	2.1	2.5	3.4	3.4	3.0	3.6	2.7	2.3
115.5°	3.4	2.9	2.4	2.2	2.6	3.6	3.4	3.0	3.7	2.8	2.3
116°	3.3	2.8	2.3	2.2	2.7	3.7	3.4	3.0	3.7	2.9	2.3
116.5°	3.2	2.8	2.3	2.3	2.7	3.8	3.5	3.0	3.7	2.9	2.4
117°	3.1	2.7	2.3	2.4	2.8	3.9	3.5	3.0	3.8	3.0	2.4
117.5°	3.0	2.7	2.3	2.5	2.9	3.9	3.5	3.0	3.8	3.1	2.5
118°	2.9	2.6	2.3	2.5	3.0	4.0	3.6	3.0	3.9	3.1	2.5
118.5°	2.9	2.6	2.3	2.6	3.1	4.1	3.7	3.0	3.9	3.2	2.6
119°	2.8	2.5	2.3	2.7	3.1	4.3	3.7	3.0	3.9	3.2	2.6
119.5°	2.7	2.5	2.3	2.7	3.2	4.4	3.7	3.0	3.9	3.3	2.7
120°	2.7	2.4	2.4	2.8	3.3	4.4	3.8	3.0	4.0	3.4	2.8
120.5°	2.6	2.4	2.4	2.9	3.3	4.6	3.8	3.0	4.0	3.6	2.8
121°	2.6	2.3	2.5	2.9	3.4	4.6	3.8	3.0	4.0	3.6	2.9
121.5°	2.5	2.3	2.5	3.0	3.5	4.7	3.8	3.0	4.0	3.6	2.9
122°	2.5	2.3	2.6	3.0	3.6	4.7	3.8	3.0	4.0	3.6	3.0
122.5°	2.4	2.3	2.6	3.1	3.7	4.7	3.8	3.0	4.0	3.6	3.0
123°	2.4	2.4	2.7	3.1	3.8	4.6	3.7	3.0	4.0	3.6	3.1
123.5°	2.3	2.4	2.8	3.2	3.9	4.5	3.7	3.0	4.1	3.7	3.1
124°	2.3	2.4	2.8	3.3	3.9	4.4	3.7	3.0	4.1	3.7	3.2
124.5°	2.3	2.5	2.9	3.3	4.0	4.3	3.6	3.0	4.1	3.7	3.2
125°	2.3	2.5	2.9	3.4	4.2	4.3	3.6	3.0	4.1	3.8	3.2
125.5°	2.3	2.6	3.0	3.4	4.3	4.2	3.6	3.0	4.1	3.8	3.3
126°	2.4	2.6	3.0	3.5	4.4	4.2	3.6	3.0	4.1	3.8	3.3
126.5°	2.4	2.7	3.1	3.6	4.5	4.1	3.5	3.1	4.1	3.9	3.4
127°	2.4	2.7	3.1	3.6	4.6	4.1	3.5	3.1	4.1	3.9	3.4
127.5°	2.5	2.8	3.2	3.7	4.6	4.1	3.5	3.1	4.1	4.0	3.5
128°	2.5	2.8	3.2	3.8	4.6	4.0	3.5	3.1	4.1	4.0	3.5
128.5°	2.5	2.8	3.3	3.9	4.7	4.0	3.5	3.1	4.1	4.0	3.5
129°	2.6	2.9	3.3	3.9	4.8	4.0	3.5	3.1	4.1	4.0	3.7
129.5°	2.6	2.9	3.4	4.0	4.8	4.0	3.5	3.1	4.1	4.0	3.8
130°	2.7	3.0	3.4	4.1	4.9	4.0	3.5	3.1	4.1	4.0	3.9
130.5°	2.7	3.0	3.5	4.2	4.9	4.0	3.5	3.1	4.1	4.1	3.9
131°	2.8	3.1	3.6	4.2	5.0	4.0	3.5	3.1	4.1	4.1	3.9
131.5°	2.8	3.1	3.6	4.3	5.0	4.0	3.4	3.1	4.1	4.1	3.8
132°	2.8	3.2	3.7	4.4	5.0	4.0	3.4	3.1	4.1	4.2	3.8
132.5°	2.9	3.3	3.7	4.5	5.0	4.0	3.4	3.2	4.1	4.2	3.8
133°	2.9	3.3	3.8	4.6	5.0	3.9	3.4	3.2	4.1	4.2	3.9
133.5°	3.0	3.4	3.9	4.7	5.0	3.9	3.4	3.2	4.0	4.2	3.9



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	3.1	3.5	4.1	5.0	4.8	3.9	3.4	3.2	4.0	4.2	3.8
135.5°	3.2	3.6	4.2	5.0	4.8	3.9	3.5	3.2	4.0	4.2	3.8
136°	3.2	3.6	4.2	5.0	4.8	3.9	3.5	3.2	4.0	4.2	3.9
136.5°	3.3	3.7	4.3	5.1	4.7	3.9	3.5	3.2	4.0	4.2	3.9
137°	3.4	3.8	4.4	5.1	4.6	3.9	3.5	3.2	3.9	4.2	3.9
137.5°	3.4	3.8	4.4	5.1	4.6	3.9	3.5	3.2	3.9	4.2	3.9
138°	3.5	3.9	4.5	5.2	4.5	3.9	3.5	3.2	3.9	4.2	3.9
138.5°	3.5	4.0	4.6	5.2	4.5	3.9	3.5	3.2	3.8	4.2	3.9
139°	3.6	4.0	4.7	5.2	4.4	3.9	3.6	3.2	3.7	4.2	3.9
139.5°	3.6	4.1	4.8	5.2	4.3	3.9	3.6	3.2	3.7	4.2	3.9
140°	3.7	4.1	4.9	5.2	4.3	3.9	3.6	3.2	3.8	4.2	4.0
140.5°	3.7	4.2	4.9	5.1	4.2	3.9	3.6	3.1	3.8	4.2	4.0
141°	3.8	4.2	5.0	5.1	4.1	3.9	3.5	3.1	3.8	4.3	4.0
141.5°	3.9	4.3	5.0	5.0	4.1	3.9	3.5	3.2	3.8	4.3	3.9
142°	3.9	4.5	5.0	4.9	4.0	3.9	3.6	3.1	3.8	4.3	3.9
142.5°	4.0	4.6	5.0	4.8	4.0	3.9	3.6	3.0	3.8	4.3	3.9
143°	4.0	4.7	5.1	4.8	4.0	3.9	3.5	3.0	3.7	4.2	3.8
143.5°	4.1	4.8	5.1	4.7	3.9	3.9	3.5	3.0	3.7	4.1	3.9
144°	4.2	4.8	5.0	4.6	3.9	3.9	3.5	3.1	3.7	4.1	3.9
144.5°	4.3	4.8	5.0	4.5	3.9	3.8	3.5	3.1	3.7	4.2	4.0
145°	4.4	4.8	5.0	4.4	3.8	3.8	3.6	3.1	3.7	4.3	4.0
145.5°	4.6	4.8	4.9	4.4	3.8	3.8	3.6	3.1	3.6	4.3	3.9
146°	4.6	4.8	4.8	4.3	3.8	3.8	3.6	3.1	3.6	4.3	3.9
146.5°	4.6	4.8	4.7	4.2	3.8	3.8	3.6	3.1	3.6	4.3	4.0
147°	4.6	4.7	4.7	4.1	3.7	3.8	3.5	3.0	3.5	4.3	4.1
147.5°	4.6	4.7	4.6	4.0	3.7	3.8	3.4	3.0	3.6	4.3	4.1
148°	4.6	4.7	4.5	3.9	3.7	3.6	3.4	3.1	3.6	4.3	4.1
148.5°	4.6	4.7	4.4	3.9	3.7	3.6	3.4	3.1	3.5	4.2	4.1
149°	4.5	4.6	4.3	3.8	3.7	3.7	3.5	3.1	3.5	4.2	4.2
149.5°	4.5	4.5	4.2	3.7	3.6	3.7	3.5	3.1	3.5	4.2	4.2
150°	4.5	4.5	4.1	3.7	3.6	3.7	3.5	3.1	3.5	4.2	4.2
150.5°	4.5	4.4	4.0	3.6	3.6	3.6	3.4	3.1	3.5	4.1	4.2
151°	4.5	4.3	3.9	3.6	3.5	3.6	3.4	3.1	3.5	4.1	4.0
151.5°	4.4	4.2	3.8	3.6	3.5	3.6	3.4	3.1	3.4	4.1	4.0
152°	4.4	4.1	3.8	3.5	3.6	3.6	3.4	3.1	3.4	4.0	4.1
152.5°	4.3	4.0	3.7	3.5	3.6	3.6	3.3	3.1	3.2	3.9	4.2
153°	4.2	3.9	3.6	3.5	3.6	3.6	3.3	3.0	3.0	3.9	4.2
153.5°	4.1	3.9	3.5	3.4	3.6	3.6	3.3	3.0	3.0	3.8	4.2
154°	4.0	3.8	3.5	3.4	3.6	3.5	3.3	2.9	3.0	3.8	4.2
154.5°	3.9	3.7	3.4	3.4	3.6	3.5	3.3	2.9	2.9	3.6	4.1
155°	3.8	3.6	3.4	3.4	3.5	3.4	3.3	2.9	2.8	3.4	3.9
155.5°	3.7	3.5	3.3	3.4	3.4	3.3	3.2	2.8	2.8	3.3	3.8
156°	3.6	3.4	3.3	3.4	3.4	3.3	3.1	2.7	2.8	3.2	3.6



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	3.4	3.3	3.3	3.4	3.3	3.2	2.7	2.7	2.8	3.1	3.6
158°	3.3	3.2	3.3	3.4	3.4	3.2	2.6	2.7	2.8	3.1	3.6
158.5°	3.3	3.2	3.2	3.4	3.4	3.2	2.6	2.7	2.7	3.0	3.5
159°	3.2	3.2	3.2	3.4	3.4	3.1	2.6	2.6	2.7	3.0	3.4
159.5°	3.2	3.2	3.3	3.3	3.3	3.1	2.6	2.6	2.7	3.0	3.3
160°	3.2	3.2	3.3	3.2	3.2	3.1	2.6	2.6	2.7	3.0	3.3
160.5°	3.1	3.2	3.2	3.2	3.2	3.1	2.6	2.6	2.7	2.9	3.3
161°	3.1	3.2	3.3	3.2	3.3	3.1	2.6	2.6	2.7	2.9	3.2
161.5°	3.1	3.2	3.3	3.3	3.3	2.8	2.6	2.6	2.7	2.8	3.2
162°	3.1	3.2	3.3	3.4	3.2	2.7	2.6	2.6	2.7	2.8	3.1
162.5°	3.1	3.2	3.3	3.4	3.2	2.6	2.6	2.6	2.7	2.8	3.1
163°	3.2	3.2	3.3	3.4	3.1	2.6	2.5	2.5	2.7	2.8	3.1
163.5°	3.2	3.3	3.3	3.4	2.9	2.6	2.5	2.5	2.6	2.8	3.0
164°	3.2	3.3	3.4	3.3	2.7	2.5	2.5	2.5	2.6	2.7	3.0
164.5°	3.2	3.3	3.4	3.2	2.7	2.5	2.5	2.5	2.6	2.7	3.0
165°	3.2	3.3	3.4	3.2	2.6	2.5	2.5	2.5	2.6	2.7	2.9
165.5°	3.3	3.3	3.4	3.1	2.6	2.5	2.5	2.5	2.6	2.7	2.9
166°	3.3	3.3	3.3	3.1	2.6	2.5	2.5	2.5	2.6	2.7	2.9
166.5°	3.3	3.4	3.3	3.1	2.6	2.5	2.5	2.5	2.6	2.7	2.9
167°	3.3	3.4	3.3	3.0	2.6	2.5	2.6	2.5	2.6	2.7	2.9
167.5°	3.3	3.4	3.3	2.8	2.6	2.5	2.6	2.5	2.6	2.7	2.8
168°	3.4	3.4	3.2	2.7	2.6	2.5	2.6	2.6	2.6	2.7	2.8
168.5°	3.4	3.4	3.1	2.7	2.5	2.6	2.6	2.6	2.6	2.7	2.8
169°	3.4	3.3	3.1	2.6	2.5	2.6	2.6	2.6	2.6	2.7	2.8
169.5°	3.4	3.3	3.1	2.6	2.5	2.6	2.7	2.6	2.6	2.7	2.8
170°	3.4	3.3	3.0	2.6	2.6	2.6	2.8	2.7	2.6	2.8	2.9
170.5°	3.3	3.2	2.8	2.6	2.6	2.8	2.9	2.9	2.6	2.9	3.2
171°	3.3	3.1	2.6	2.5	2.6	2.8	3.0	2.9	2.6	3.1	3.2
171.5°	3.3	3.0	2.6	2.5	2.6	2.8	3.0	2.9	2.9	3.1	3.1
172°	3.2	3.0	2.6	2.5	2.7	3.0	3.0	2.9	2.9	3.1	3.1
172.5°	3.1	2.9	2.5	2.5	2.7	3.0	3.0	2.9	2.9	3.1	3.1
173°	3.1	2.9	2.5	2.5	2.8	3.0	3.0	3.0	2.9	3.0	3.1
173.5°	3.0	2.8	2.5	2.5	2.8	3.0	3.0	3.0	2.9	3.0	3.1
174°	3.0	2.6	2.5	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.1
174.5°	2.9	2.5	2.5	2.6	2.9	3.0	3.0	3.0	3.0	3.0	3.1
175°	2.9	2.5	2.5	2.6	2.9	3.0	3.0	3.0	3.0	3.0	3.0
175.5°	2.8	2.6	2.5	2.6	2.9	3.0	3.0	3.0	3.0	3.0	3.0
176°	2.8	2.6	2.5	2.7	2.9	3.0	3.0	3.0	3.0	3.0	3.0
176.5°	2.8	2.6	2.6	2.7	2.8	3.0	3.0	3.0	3.0	3.0	3.0
177°	2.8	2.7	2.6	2.7	2.9	3.0	3.0	2.9	3.0	3.0	3.0
177.5°	2.7	2.6	2.5	2.7	2.9	3.0	3.0	2.9	2.9	2.9	2.9
178°	2.5	2.4	2.4	2.5	2.7	2.8	2.9	2.9	2.9	2.8	2.8
178.5°	2.6	2.4	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.8	2.9



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
0.5°	1506.8	1506.8	1506.8	1506.9	1506.9	1506.9	1506.9	1507.0	1507.0	1507.0	1507.0
1°	1506.4	1506.4	1506.1	1505.8	1505.5	1505.3	1505.5	1505.8	1506.1	1506.5	1506.6
1.5°	1505.5	1505.6	1505.6	1505.4	1505.3	1505.2	1505.4	1505.6	1505.8	1506.0	1506.1
2°	1504.2	1504.3	1504.1	1503.8	1503.6	1503.5	1503.7	1504.1	1504.6	1504.9	1505.0
2.5°	1503.4	1503.2	1502.6	1502.0	1502.0	1502.3	1502.3	1502.4	1502.9	1503.6	1504.0
3°	1502.0	1501.7	1500.9	1500.7	1500.9	1501.1	1501.0	1501.0	1501.5	1502.1	1502.3
3.5°	1499.6	1499.4	1499.3	1498.8	1498.9	1499.4	1499.7	1499.9	1500.3	1500.8	1501.3
4°	1498.4	1498.3	1497.7	1497.1	1497.3	1497.8	1498.1	1498.2	1498.3	1498.9	1499.4
4.5°	1496.1	1495.7	1495.6	1495.6	1495.6	1495.3	1495.5	1495.9	1496.2	1497.1	1498.3
5°	1494.3	1494.0	1493.2	1492.8	1492.4	1492.2	1492.8	1493.6	1494.5	1495.7	1497.0
5.5°	1492.3	1491.6	1491.1	1490.5	1490.2	1490.5	1490.6	1491.2	1492.4	1493.8	1495.3
6°	1489.6	1489.0	1488.6	1488.1	1488.0	1487.7	1487.7	1488.3	1489.6	1490.8	1492.6
6.5°	1487.0	1485.9	1485.5	1485.1	1484.8	1485.1	1485.1	1485.9	1487.2	1488.5	1490.5
7°	1484.9	1483.8	1482.6	1481.8	1482.0	1482.3	1482.6	1483.4	1484.8	1485.9	1488.6
7.5°	1482.3	1481.3	1479.5	1479.0	1478.5	1477.9	1478.7	1479.9	1481.4	1483.2	1485.6
8°	1478.9	1478.0	1476.5	1475.5	1475.0	1475.1	1475.5	1476.7	1478.2	1479.9	1482.7
8.5°	1475.6	1474.0	1473.1	1472.2	1471.3	1471.6	1471.9	1473.3	1475.2	1476.9	1479.7
9°	1471.9	1470.5	1469.5	1468.2	1468.0	1468.0	1468.0	1469.3	1471.6	1474.2	1477.5
9.5°	1468.8	1467.2	1465.2	1464.4	1464.0	1463.7	1464.0	1465.6	1467.9	1470.6	1474.2
10°	1466.3	1463.5	1461.6	1460.3	1459.9	1459.9	1459.8	1461.5	1464.2	1467.2	1470.5
10.5°	1462.0	1459.8	1457.4	1455.8	1455.2	1454.6	1455.6	1457.6	1460.1	1463.4	1467.5
11°	1457.8	1455.5	1453.1	1451.7	1450.9	1450.7	1451.1	1452.8	1456.0	1459.1	1463.6
11.5°	1453.5	1450.9	1448.5	1446.9	1446.2	1445.6	1446.5	1448.4	1451.6	1455.8	1459.1
12°	1449.9	1446.4	1443.7	1442.2	1441.2	1440.8	1442.1	1444.3	1447.3	1451.9	1456.2
12.5°	1445.8	1442.1	1439.3	1437.6	1436.6	1435.5	1437.0	1439.2	1442.5	1447.0	1452.4
13°	1441.3	1437.1	1434.2	1432.1	1430.4	1430.0	1431.9	1434.0	1437.3	1442.3	1447.5
13.5°	1436.0	1431.9	1428.9	1426.5	1424.9	1424.7	1426.3	1428.4	1432.3	1437.2	1443.3
14°	1431.6	1427.0	1423.7	1421.2	1419.4	1419.9	1420.5	1423.1	1427.5	1433.1	1438.0
14.5°	1426.5	1421.4	1418.4	1415.8	1413.2	1413.6	1415.2	1417.5	1422.0	1427.9	1433.6
15°	1421.3	1416.2	1412.9	1409.7	1407.9	1407.6	1409.0	1412.1	1416.1	1422.3	1428.5
15.5°	1416.4	1411.0	1406.7	1403.4	1402.1	1401.2	1402.8	1405.9	1410.8	1416.8	1423.5
16°	1411.0	1405.4	1400.6	1397.0	1394.8	1394.7	1396.2	1399.6	1404.6	1410.9	1417.8
16.5°	1405.2	1399.5	1394.7	1390.7	1388.8	1388.9	1390.2	1393.3	1398.8	1405.2	1412.2
17°	1399.6	1393.5	1388.6	1384.7	1382.5	1382.1	1383.6	1386.9	1392.5	1399.9	1406.8
17.5°	1393.6	1387.4	1382.3	1378.1	1375.7	1375.0	1377.1	1380.2	1385.9	1393.6	1401.6
18°	1387.4	1380.8	1375.6	1371.0	1368.5	1367.6	1369.2	1373.9	1379.7	1387.3	1395.7
18.5°	1381.2	1374.6	1368.4	1363.5	1361.4	1361.0	1362.6	1367.0	1373.5	1381.0	1389.5
19°	1375.4	1367.5	1361.2	1356.4	1354.7	1353.1	1354.7	1359.5	1365.9	1374.3	1382.7
19.5°	1368.1	1360.5	1354.1	1349.1	1347.1	1345.7	1347.7	1352.0	1358.7	1367.9	1376.7
20°	1361.9	1354.1	1347.2	1341.7	1338.8	1338.2	1340.6	1344.8	1352.0	1361.1	1371.1
20.5°	1355.3	1346.9	1339.9	1334.0	1330.6	1330.2	1332.7	1337.7	1344.8	1354.2	1364.7
21°	1348.0	1339.8	1332.3	1326.1	1322.4	1322.3	1324.7	1329.7	1337.5	1347.4	1357.5





TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1326.6	1316.8	1308.6	1302.3	1297.7	1297.0	1299.1	1304.6	1313.6	1325.3	1336.3
23°	1319.5	1309.0	1300.7	1293.7	1289.3	1289.1	1290.8	1296.7	1305.9	1317.5	1329.6
23.5°	1311.5	1300.6	1292.1	1285.1	1281.3	1279.6	1281.9	1288.0	1297.7	1309.4	1321.9
24°	1304.0	1292.8	1283.5	1275.7	1272.0	1270.3	1272.5	1279.6	1289.0	1301.2	1313.9
24.5°	1296.0	1284.8	1274.6	1266.7	1262.9	1260.8	1264.1	1271.5	1281.1	1293.2	1306.4
25°	1289.0	1276.5	1266.7	1258.2	1254.2	1251.8	1255.0	1262.6	1272.6	1285.1	1298.3
25.5°	1279.9	1267.7	1257.8	1249.1	1244.2	1242.6	1245.6	1252.9	1263.3	1276.5	1290.7
26°	1271.5	1258.9	1248.3	1240.0	1235.2	1233.0	1236.3	1243.7	1255.0	1268.4	1282.9
26.5°	1263.2	1250.4	1239.0	1230.5	1225.9	1223.5	1226.2	1234.4	1245.8	1259.8	1274.3
27°	1255.3	1242.1	1230.1	1220.6	1215.6	1214.2	1216.8	1224.7	1236.7	1250.7	1265.8
27.5°	1246.4	1232.3	1220.6	1210.7	1205.1	1204.6	1207.2	1215.0	1227.1	1242.3	1257.1
28°	1237.2	1223.3	1211.3	1201.0	1195.8	1194.2	1197.6	1206.1	1218.2	1233.1	1249.0
28.5°	1228.8	1214.6	1201.9	1191.9	1185.9	1184.0	1187.1	1196.0	1208.7	1223.7	1239.4
29°	1219.9	1204.9	1192.1	1181.4	1175.4	1174.5	1177.7	1185.5	1198.3	1214.2	1230.7
29.5°	1210.7	1195.1	1182.2	1171.3	1165.4	1163.5	1166.2	1175.5	1188.9	1205.3	1222.3
30°	1201.5	1185.5	1172.3	1161.2	1154.7	1153.1	1156.7	1165.7	1179.2	1196.1	1213.1
30.5°	1191.9	1176.1	1162.3	1150.8	1144.8	1142.5	1146.0	1155.2	1168.9	1186.1	1203.6
31°	1182.6	1166.3	1152.2	1140.6	1134.2	1131.9	1135.9	1145.2	1159.0	1176.2	1194.7
31.5°	1172.9	1156.4	1142.0	1130.1	1123.3	1121.0	1125.0	1134.9	1149.2	1166.8	1184.9
32°	1163.0	1146.7	1131.9	1119.2	1112.3	1110.0	1114.2	1124.1	1139.3	1157.0	1175.6
32.5°	1153.9	1136.7	1121.4	1108.1	1101.4	1099.1	1103.3	1113.2	1128.9	1147.3	1165.9
33°	1143.8	1126.2	1110.9	1097.1	1090.4	1088.2	1092.4	1102.3	1118.1	1137.4	1156.5
33.5°	1133.4	1115.6	1100.3	1086.1	1079.4	1077.2	1081.6	1091.4	1107.4	1127.1	1146.7
34°	1124.8	1105.2	1089.9	1075.7	1067.8	1066.1	1069.8	1080.5	1096.7	1116.8	1136.8
34.5°	1114.2	1094.9	1079.2	1065.3	1056.9	1054.5	1058.8	1070.0	1086.1	1106.3	1127.3
35°	1103.7	1084.2	1067.5	1054.1	1045.8	1043.1	1047.8	1059.1	1075.4	1095.9	1117.1
35.5°	1093.2	1073.6	1056.7	1043.0	1034.6	1031.9	1036.5	1048.2	1064.3	1085.5	1106.9
36°	1082.7	1063.1	1046.1	1031.3	1022.9	1020.4	1024.9	1035.9	1053.3	1075.1	1096.7
36.5°	1072.0	1052.1	1034.2	1019.9	1011.0	1009.0	1013.5	1025.1	1042.1	1063.7	1086.5
37°	1061.3	1040.6	1023.3	1008.8	999.4	996.9	1001.7	1014.0	1031.1	1052.8	1075.9
37.5°	1050.6	1029.7	1012.1	997.5	988.7	985.5	990.4	1002.2	1019.6	1041.7	1065.2
38°	1039.5	1018.5	1000.5	985.3	976.4	974.4	978.5	991.0	1008.8	1030.9	1053.9
38.5°	1028.6	1007.6	989.1	974.1	965.0	961.9	967.2	979.5	997.4	1020.0	1043.2
39°	1017.8	996.6	977.6	962.4	953.4	950.7	955.8	968.1	986.1	1009.0	1032.5
39.5°	1006.6	985.6	966.5	950.8	942.0	938.8	943.5	956.2	974.6	997.6	1021.8
40°	995.9	974.1	955.0	939.4	929.9	927.1	932.2	944.7	963.0	986.4	1010.8
40.5°	984.8	962.7	943.5	927.6	918.0	915.2	919.8	932.6	952.1	975.2	1000.1
41°	973.7	951.2	931.8	915.5	906.2	903.4	908.7	921.4	940.2	964.0	988.7
41.5°	962.3	940.0	920.4	904.2	894.5	891.8	896.4	909.8	928.9	952.7	977.6
42°	950.9	928.3	908.4	892.5	882.3	879.7	885.0	897.7	917.2	941.0	967.0
42.5°	940.0	917.2	896.9	880.7	870.7	868.1	873.0	886.3	906.0	929.4	955.1
43°	928.8	905.3	885.5	868.9	858.5	856.5	861.6	874.7	894.3	918.4	944.1
43.5°	917.2	894.0	873.7	856.9	847.2	844.4	849.5	862.5	882.0	907.0	932.7



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	882.6	858.6	838.2	821.8	812.1	808.7	813.7	827.4	846.8	872.2	898.6
45.5°	871.1	847.3	827.1	809.9	800.1	797.2	802.5	815.8	835.3	860.5	886.9
46°	859.5	835.8	815.0	798.4	788.2	785.9	790.9	804.3	824.1	848.8	875.6
46.5°	847.8	824.1	803.4	786.7	776.6	774.0	779.0	792.8	812.6	837.2	863.7
47°	836.4	812.1	791.6	774.9	764.6	762.1	767.5	780.7	800.7	825.5	852.6
47.5°	824.4	800.6	780.2	763.3	753.2	750.8	755.8	769.1	788.9	813.9	840.8
48°	812.4	789.2	767.9	751.5	741.8	738.8	743.8	757.3	777.2	802.1	828.9
48.5°	800.8	777.3	756.7	740.2	730.4	727.3	732.7	745.7	765.5	790.5	817.0
49°	789.3	765.5	745.0	728.8	718.4	715.7	721.4	734.5	754.5	779.3	805.4
49.5°	778.2	753.9	733.8	717.3	706.9	704.8	709.7	723.0	742.4	767.4	794.1
50°	765.5	742.3	721.8	705.5	695.5	693.1	698.6	711.3	731.3	755.6	782.6
50.5°	754.4	730.6	709.7	693.9	684.5	681.9	686.5	699.6	719.5	743.9	770.7
51°	742.4	718.7	698.8	682.8	672.8	671.0	675.6	688.4	707.7	732.3	759.3
51.5°	730.5	707.2	687.5	671.6	661.6	659.5	664.5	677.5	696.5	720.9	747.3
52°	718.6	696.1	676.1	660.4	650.4	648.2	653.3	666.4	685.3	709.8	735.7
52.5°	707.0	684.5	664.7	649.0	639.6	637.6	642.0	655.1	674.1	698.2	724.0
53°	695.4	672.9	653.0	637.6	628.3	626.6	631.1	643.8	662.7	686.5	712.5
53.5°	683.8	661.4	641.6	626.6	617.2	615.3	620.5	632.4	651.5	675.1	701.4
54°	672.2	650.1	630.3	615.6	606.3	603.8	608.9	621.1	640.0	663.6	689.6
54.5°	660.6	638.3	619.1	604.4	595.3	593.4	598.4	610.2	628.9	652.1	677.6
55°	648.8	626.5	608.0	593.5	584.3	582.5	587.3	599.4	617.6	640.9	666.0
55.5°	637.6	615.5	596.8	582.4	574.0	572.0	576.8	588.4	606.5	629.5	654.2
56°	625.7	604.1	585.6	571.7	563.1	561.4	566.1	577.4	595.2	618.2	642.9
56.5°	614.0	592.5	574.9	561.0	552.1	550.4	555.5	566.9	584.5	606.9	631.2
57°	602.5	581.4	563.6	550.1	541.7	540.2	544.9	556.4	573.3	595.4	619.7
57.5°	590.6	570.4	553.0	539.2	531.1	529.5	533.8	545.2	562.5	584.1	608.0
58°	579.2	559.0	541.9	528.6	521.0	519.2	523.8	534.6	551.4	572.7	596.6
58.5°	567.6	548.1	531.2	518.0	510.4	509.0	513.4	524.1	540.8	561.8	585.5
59°	556.2	537.0	520.2	507.7	499.9	498.5	502.9	513.7	530.0	550.8	574.0
59.5°	544.9	525.7	509.8	497.1	489.4	488.2	493.1	503.3	519.5	539.6	562.6
60°	533.3	514.9	499.3	486.5	479.7	478.4	482.6	492.8	508.6	528.7	550.8
60.5°	522.1	503.9	488.4	476.2	469.3	468.0	472.3	482.4	498.1	517.7	539.3
61°	510.5	493.0	477.8	466.0	459.1	458.1	462.1	472.2	487.4	506.8	528.3
61.5°	499.3	482.1	467.5	456.2	449.8	448.2	452.4	462.2	477.2	495.8	516.7
62°	487.7	471.3	457.2	445.8	439.4	438.4	442.4	452.2	466.6	485.2	505.5
62.5°	476.9	460.6	446.6	435.7	429.3	428.7	432.6	442.0	456.3	474.5	494.3
63°	465.8	449.9	436.0	425.6	419.8	418.8	422.7	431.9	445.9	463.6	483.2
63.5°	454.8	439.1	425.8	415.7	410.2	409.2	413.1	422.0	435.6	453.1	472.3
64°	443.4	428.5	416.2	406.0	400.5	399.7	403.3	412.3	425.3	442.5	461.0
64.5°	432.4	418.0	405.8	396.0	390.7	390.2	393.9	402.4	415.2	431.7	450.1
65°	421.5	407.5	395.6	386.5	381.5	380.7	384.5	392.8	405.3	421.3	439.0
65.5°	410.5	397.2	386.1	376.9	371.9	371.3	375.0	383.1	395.5	410.8	428.1
66°	399.9	386.9	376.2	367.1	362.3	361.7	365.2	373.2	385.3	400.6	417.1



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	367.0	355.8	346.2	338.8	334.8	334.3	337.7	345.0	355.8	369.6	384.3
68°	356.4	345.7	336.5	329.4	325.8	325.5	328.7	335.8	345.9	359.4	374.0
68.5°	346.0	335.6	326.9	320.3	316.8	316.3	319.6	326.6	336.5	349.4	363.5
69°	335.4	325.5	317.5	311.2	307.8	307.6	310.6	317.4	327.0	339.3	353.0
69.5°	324.9	315.7	307.9	301.9	298.6	298.6	301.6	308.2	317.4	329.1	342.3
70°	314.6	305.9	298.7	292.8	290.0	290.1	292.9	299.0	307.9	319.1	331.7
70.5°	303.9	296.0	289.2	284.1	281.4	281.5	284.3	290.0	298.5	309.4	321.0
71°	293.7	286.3	280.2	275.3	272.8	272.8	275.5	281.2	289.3	299.5	311.0
71.5°	283.6	276.7	271.0	266.4	264.0	264.2	267.0	272.3	280.2	289.9	300.5
72°	273.5	267.2	261.9	257.7	255.6	256.1	258.6	263.6	271.1	280.4	290.5
72.5°	263.3	257.7	252.9	249.1	247.3	247.6	250.2	255.1	262.0	270.7	280.1
73°	253.5	248.4	243.9	240.6	238.8	239.3	241.7	246.4	252.8	261.2	270.5
73.5°	243.5	239.1	235.0	232.1	230.8	231.0	233.5	237.8	244.1	251.8	260.3
74°	233.6	229.8	226.5	223.9	222.5	223.3	225.4	229.5	235.3	242.6	250.3
74.5°	224.0	220.7	217.7	215.8	214.6	215.3	217.4	221.4	226.7	233.3	240.3
75°	214.5	211.9	209.4	207.5	206.6	207.4	209.4	213.0	218.0	224.2	231.0
75.5°	205.2	203.0	200.8	199.5	198.9	199.5	201.5	204.8	209.4	215.1	221.3
76°	195.6	194.2	192.8	191.5	191.0	191.8	193.6	196.9	201.3	206.2	211.9
76.5°	186.5	185.5	184.5	183.7	183.4	184.2	186.0	189.1	192.8	197.4	202.4
77°	177.5	176.9	176.7	176.1	175.9	176.8	178.5	181.2	184.7	188.7	193.2
77.5°	168.4	168.6	168.5	168.6	168.7	169.6	171.3	173.6	176.8	180.2	183.6
78°	159.7	160.6	160.9	161.2	161.7	162.5	163.9	166.2	169.0	171.9	174.8
78.5°	151.2	152.8	153.4	153.9	154.6	155.5	156.9	158.8	161.0	163.6	165.9
79°	142.7	144.7	145.9	146.8	147.6	148.6	149.9	151.7	153.5	155.4	157.3
79.5°	134.7	137.2	138.8	140.0	140.9	141.9	143.3	144.7	146.1	147.6	148.4
80°	126.8	130.1	132.2	133.6	134.8	135.5	136.6	137.7	139.1	139.7	140.3
80.5°	118.9	123.0	125.5	127.3	128.6	129.5	130.4	131.2	132.4	132.4	132.4
81°	111.0	115.9	118.9	121.0	122.5	123.4	124.3	125.0	125.7	125.3	124.6
81.5°	103.7	108.7	112.2	114.8	116.3	117.3	118.1	118.8	119.0	118.2	116.8
82°	96.8	101.9	105.6	108.5	110.2	111.2	112.0	112.6	112.3	111.0	109.0
82.5°	89.8	95.5	99.5	102.5	104.4	105.6	106.3	106.4	105.7	104.1	101.4
83°	83.0	89.1	93.6	96.7	98.8	100.0	100.6	100.5	99.5	97.5	94.4
83.5°	76.6	83.0	87.8	91.1	93.2	94.4	95.1	94.8	93.6	91.1	87.4
84°	70.4	77.2	82.2	85.7	87.9	89.3	89.8	89.3	87.7	84.8	80.8
84.5°	64.5	71.7	76.9	80.5	82.9	84.1	84.5	83.9	82.2	78.9	74.2
85°	59.0	66.3	71.6	75.5	78.0	79.2	79.5	78.7	76.7	73.2	68.2
85.5°	53.7	61.2	66.7	70.7	73.1	74.3	74.6	73.8	71.5	67.7	62.4
86°	48.8	56.2	61.9	66.1	68.6	69.8	70.1	69.0	66.4	62.5	56.9
86.5°	44.0	51.7	57.5	61.6	64.2	65.4	65.6	64.4	61.8	57.4	51.5
87°	39.7	47.4	53.2	57.4	60.1	61.3	61.4	60.0	57.3	52.8	46.6
87.5°	35.6	43.3	49.2	53.5	56.1	57.3	57.3	55.9	53.0	48.4	42.0
88°	32.0	39.5	45.4	49.7	52.3	53.5	53.5	52.0	48.9	44.3	37.8
88.5°	28.6	36.1	41.9	46.1	48.7	49.9	49.8	48.2	45.2	40.4	33.9



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	20.4	27.2	32.7	36.7	39.3	40.4	40.2	38.4	35.1	30.3	23.9
90.5°	18.3	24.7	30.1	34.1	36.6	37.6	37.3	35.6	32.3	27.5	21.3
91°	16.5	22.6	27.7	31.6	34.0	35.0	34.7	33.0	29.7	25.0	19.0
91.5°	14.9	20.7	25.6	29.3	31.7	32.6	32.3	30.6	27.4	22.8	17.0
92°	14.0	19.0	23.7	27.2	29.5	30.5	30.1	28.3	25.2	20.8	15.3
92.5°	13.1	17.6	22.0	25.4	27.6	28.4	28.1	26.3	23.3	19.1	14.2
93°	12.2	16.3	20.5	23.8	25.8	26.6	26.2	24.6	21.6	17.5	13.2
93.5°	11.3	15.3	19.3	22.3	24.3	25.0	24.6	23.0	20.1	16.3	12.2
94°	10.4	14.5	18.2	21.0	22.9	23.6	23.2	21.6	18.9	15.2	11.2
94.5°	9.9	13.8	17.3	20.0	21.7	22.3	21.9	20.4	17.8	14.3	10.2
95°	9.5	13.2	16.4	19.0	20.6	21.2	20.8	19.3	16.8	13.5	9.7
95.5°	9.2	12.7	15.7	18.2	19.7	20.2	19.8	18.4	16.0	12.8	9.3
96°	8.8	12.2	15.1	17.4	18.8	19.3	18.9	17.5	15.2	12.3	9.0
96.5°	8.6	11.9	14.6	16.7	18.0	18.5	18.1	16.8	14.6	11.9	8.6
97°	8.4	11.5	14.1	16.1	17.3	17.8	17.5	16.3	14.1	11.4	8.3
97.5°	8.3	11.2	13.6	15.6	16.8	17.2	16.9	15.7	13.7	11.0	7.9
98°	8.1	10.8	13.2	15.1	16.2	16.6	16.4	15.3	13.3	10.5	7.6
98.5°	8.0	10.5	12.9	14.6	15.8	16.2	15.9	14.8	12.9	10.1	7.3
99°	7.9	10.3	12.5	14.2	15.3	15.7	15.4	14.3	12.4	9.8	7.2
99.5°	7.8	10.2	12.3	13.9	14.9	15.3	14.9	13.9	12.1	9.4	7.1
100°	7.7	10.0	12.0	13.6	14.5	14.9	14.5	13.4	11.7	9.2	7.0
100.5°	7.6	9.9	11.8	13.3	14.2	14.5	14.1	13.0	11.4	9.0	6.9
101°	7.5	9.8	11.6	13.0	13.9	14.2	13.7	12.7	11.0	8.9	6.8
101.5°	7.3	9.6	11.4	12.7	13.6	13.9	13.4	12.4	10.7	8.8	6.7
102°	7.2	9.5	11.2	12.5	13.3	13.5	13.1	12.1	10.5	8.7	6.6
102.5°	7.1	9.4	11.0	12.3	13.0	13.3	12.9	11.9	10.4	8.6	6.5
103°	6.9	9.2	10.8	12.1	12.8	13.1	12.7	11.8	10.3	8.5	6.3
103.5°	6.8	9.1	10.7	11.9	12.6	12.9	12.5	11.7	10.1	8.4	6.1
104°	6.6	8.9	10.6	11.8	12.5	12.7	12.4	11.5	10.0	8.3	6.0
104.5°	6.5	8.7	10.4	11.6	12.3	12.5	12.2	11.3	9.9	8.2	5.8
105°	6.3	8.6	10.2	11.4	12.1	12.4	12.1	11.2	9.8	8.0	5.6
105.5°	6.2	8.4	10.1	11.2	11.9	12.2	11.9	11.0	9.7	7.8	5.5
106°	6.1	8.2	9.9	11.0	11.7	12.1	11.8	10.9	9.5	7.6	5.3
106.5°	5.9	8.0	9.7	10.8	11.5	11.9	11.6	10.7	9.3	7.4	5.2
107°	5.8	7.9	9.4	10.7	11.3	11.7	11.4	10.6	9.1	7.2	5.0
107.5°	5.6	7.7	9.2	10.5	11.1	11.5	11.2	10.4	8.9	7.0	4.9
108°	5.5	7.5	9.0	10.3	11.0	11.3	11.0	10.2	8.7	6.8	4.8
108.5°	5.3	7.4	8.9	10.0	10.7	11.1	10.8	9.9	8.5	6.6	4.6
109°	5.2	7.2	8.7	9.8	10.5	10.8	10.6	9.7	8.2	6.4	4.5
109.5°	5.0	7.1	8.5	9.6	10.3	10.6	10.3	9.4	8.0	6.3	4.4
110°	4.9	6.9	8.3	9.4	10.0	10.3	10.1	9.2	7.8	6.1	4.3
110.5°	4.8	6.7	8.1	9.2	9.8	10.1	9.9	9.0	7.6	6.0	4.2
111°	4.6	6.5	7.9	9.0	9.6	9.9	9.6	8.7	7.4	5.8	4.0



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	4.1	6.0	7.5	8.3	8.9	9.2	8.9	8.1	6.8	5.4	3.6
113°	3.9	5.8	7.3	8.2	8.7	8.9	8.7	7.9	6.6	5.3	3.5
113.5°	3.8	5.6	7.1	8.0	8.5	8.7	8.5	7.7	6.5	5.2	3.4
114°	3.7	5.4	6.9	7.8	8.3	8.6	8.3	7.5	6.3	5.0	3.3
114.5°	3.6	5.2	6.7	7.6	8.1	8.4	8.1	7.4	6.2	4.9	3.2
115°	3.5	5.1	6.5	7.5	8.0	8.1	7.9	7.2	6.0	4.7	3.1
115.5°	3.4	4.9	6.4	7.3	7.8	7.9	7.7	7.0	5.8	4.5	3.0
116°	3.3	4.7	6.2	7.1	7.6	7.7	7.5	6.8	5.6	4.4	3.0
116.5°	3.3	4.5	6.0	6.9	7.5	7.5	7.3	6.6	5.5	4.2	2.9
117°	3.2	4.3	5.8	6.8	7.3	7.4	7.1	6.4	5.3	4.1	2.9
117.5°	3.2	4.2	5.5	6.6	7.1	7.2	6.9	6.2	5.1	4.0	2.8
118°	3.1	4.0	5.3	6.4	6.9	7.0	6.7	6.0	4.9	3.8	2.8
118.5°	3.1	3.9	5.1	6.2	6.7	6.8	6.6	5.9	4.7	3.7	2.7
119°	3.0	3.8	4.9	6.0	6.5	6.6	6.4	5.7	4.5	3.6	2.5
119.5°	2.9	3.7	4.7	5.7	6.3	6.4	6.2	5.4	4.4	3.5	2.4
120°	2.8	3.6	4.5	5.5	6.1	6.3	6.0	5.2	4.2	3.4	2.3
120.5°	2.6	3.5	4.4	5.3	5.9	6.0	5.8	5.0	4.1	3.3	2.3
121°	2.5	3.4	4.3	5.1	5.6	5.8	5.5	4.8	3.9	3.2	2.2
121.5°	2.4	3.4	4.1	4.9	5.4	5.5	5.3	4.6	3.8	3.1	2.2
122°	2.5	3.3	4.0	4.7	5.2	5.3	5.1	4.5	3.7	3.1	2.2
122.5°	2.5	3.3	3.9	4.5	5.0	5.1	4.9	4.3	3.6	3.0	2.2
123°	2.5	3.2	3.8	4.4	4.8	5.0	4.7	4.2	3.5	2.8	2.3
123.5°	2.6	3.1	3.7	4.3	4.7	4.8	4.6	4.1	3.4	2.6	2.3
124°	2.6	2.9	3.6	4.2	4.5	4.6	4.5	4.0	3.3	2.5	2.3
124.5°	2.7	2.8	3.5	4.0	4.4	4.5	4.3	3.9	3.2	2.4	2.4
125°	2.7	2.6	3.4	3.9	4.2	4.3	4.2	3.8	3.2	2.3	2.4
125.5°	2.8	2.5	3.3	3.8	4.1	4.2	4.1	3.7	3.1	2.2	2.5
126°	2.8	2.4	3.2	3.7	4.0	4.1	4.0	3.6	2.9	2.1	2.5
126.5°	2.9	2.4	3.1	3.6	3.9	4.0	3.9	3.5	2.8	2.1	2.5
127°	3.0	2.5	3.0	3.5	3.8	3.9	3.8	3.4	2.6	2.1	2.6
127.5°	3.0	2.5	2.8	3.5	3.7	3.8	3.7	3.3	2.5	2.1	2.6
128°	3.0	2.5	2.7	3.3	3.6	3.7	3.6	3.2	2.4	2.1	2.6
128.5°	3.1	2.6	2.5	3.2	3.5	3.6	3.5	3.0	2.3	2.2	2.6
129°	3.2	2.6	2.4	3.0	3.5	3.5	3.4	2.9	2.2	2.2	2.6
129.5°	3.2	2.7	2.4	2.9	3.3	3.4	3.3	2.7	2.2	2.3	2.6
130°	3.2	2.7	2.4	2.8	3.1	3.3	3.1	2.6	2.2	2.3	2.6
130.5°	3.3	2.8	2.5	2.6	3.0	3.1	2.9	2.5	2.2	2.4	2.6
131°	3.3	2.8	2.5	2.5	2.8	2.9	2.8	2.4	2.3	2.4	2.6
131.5°	3.3	2.8	2.5	2.4	2.7	2.8	2.6	2.3	2.3	2.4	2.7
132°	3.3	2.9	2.6	2.4	2.5	2.6	2.5	2.3	2.4	2.5	2.7
132.5°	3.4	2.9	2.6	2.4	2.4	2.5	2.4	2.3	2.4	2.5	2.8
133°	3.5	3.0	2.7	2.5	2.3	2.3	2.3	2.4	2.4	2.6	2.9
133.5°	3.5	3.0	2.7	2.5	2.4	2.3	2.4	2.4	2.5	2.7	3.0



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	3.7	3.2	2.8	2.6	2.5	2.4	2.5	2.5	2.6	2.8	3.2
135.5°	3.8	3.2	2.9	2.7	2.5	2.5	2.5	2.5	2.6	2.9	3.2
136°	3.8	3.3	2.9	2.7	2.6	2.5	2.6	2.6	2.7	2.9	3.3
136.5°	3.9	3.3	2.9	2.7	2.6	2.5	2.6	2.6	2.7	3.0	3.3
137°	3.9	3.4	3.0	2.8	2.6	2.6	2.6	2.7	2.8	3.0	3.3
137.5°	3.9	3.5	3.0	2.8	2.7	2.6	2.7	2.7	2.9	3.1	3.2
138°	3.8	3.5	3.1	2.8	2.7	2.7	2.7	2.7	2.9	3.2	3.1
138.5°	3.7	3.6	3.1	2.9	2.8	2.7	2.8	2.8	3.0	3.3	3.1
139°	3.7	3.6	3.2	2.9	2.8	2.7	2.8	2.8	3.0	3.3	3.1
139.5°	3.7	3.7	3.2	3.0	2.8	2.8	2.8	2.9	3.1	3.4	3.0
140°	3.7	3.7	3.3	3.0	2.9	2.8	2.9	2.9	3.1	3.4	3.0
140.5°	3.7	3.8	3.4	3.1	2.9	2.9	2.9	3.0	3.2	3.5	3.0
141°	3.7	3.8	3.5	3.1	3.0	2.9	3.0	3.0	3.3	3.5	3.0
141.5°	3.7	3.9	3.6	3.2	3.0	3.0	3.0	3.1	3.5	3.5	3.0
142°	3.7	3.8	3.7	3.2	3.0	3.0	3.1	3.2	3.5	3.4	3.0
142.5°	3.7	3.8	3.7	3.3	3.1	3.0	3.1	3.3	3.5	3.4	3.0
143°	3.7	3.7	3.7	3.4	3.2	3.1	3.2	3.4	3.6	3.3	3.0
143.5°	3.7	3.6	3.7	3.6	3.3	3.2	3.3	3.5	3.6	3.3	3.1
144°	3.7	3.6	3.8	3.6	3.4	3.3	3.4	3.6	3.6	3.3	3.0
144.5°	3.7	3.6	3.8	3.7	3.5	3.4	3.5	3.6	3.6	3.2	3.0
145°	3.7	3.6	3.8	3.7	3.6	3.5	3.6	3.7	3.5	3.2	3.0
145.5°	3.7	3.6	3.7	3.7	3.6	3.6	3.7	3.7	3.4	3.2	3.0
146°	3.7	3.6	3.6	3.8	3.7	3.7	3.7	3.7	3.4	3.2	3.0
146.5°	3.7	3.6	3.5	3.8	3.7	3.7	3.7	3.7	3.4	3.2	3.0
147°	3.7	3.6	3.6	3.7	3.8	3.8	3.8	3.6	3.4	3.2	3.0
147.5°	3.7	3.6	3.6	3.6	3.8	3.8	3.8	3.5	3.3	3.2	3.0
148°	3.7	3.6	3.6	3.5	3.7	3.8	3.7	3.5	3.3	3.2	3.0
148.5°	3.7	3.6	3.5	3.5	3.6	3.7	3.6	3.5	3.3	3.2	3.0
149°	3.7	3.6	3.5	3.5	3.5	3.6	3.6	3.5	3.3	3.2	3.0
149.5°	3.7	3.6	3.6	3.5	3.5	3.6	3.6	3.5	3.3	3.1	3.0
150°	3.7	3.6	3.6	3.5	3.5	3.6	3.5	3.5	3.3	3.1	3.0
150.5°	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.3	3.1	3.0
151°	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.3	3.1	3.0
151.5°	3.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.3	3.1	3.0
152°	3.8	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.1	3.0
152.5°	3.9	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.1	3.0
153°	3.8	3.5	3.5	3.5	3.5	3.6	3.5	3.4	3.3	3.1	3.0
153.5°	3.9	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.2	3.1	3.0
154°	3.9	3.5	3.4	3.5	3.5	3.5	3.5	3.4	3.2	3.1	3.1
154.5°	3.9	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.1	3.1
155°	4.0	3.7	3.5	3.4	3.5	3.5	3.4	3.4	3.3	3.1	3.1
155.5°	3.8	3.7	3.5	3.4	3.4	3.5	3.4	3.4	3.3	3.2	3.1
156°	3.7	3.8	3.5	3.4	3.4	3.5	3.4	3.4	3.3	3.2	3.2



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	4.0	3.7	3.6	3.5	3.4	3.5	3.5	3.4	3.4	3.3	3.3
158°	3.8	3.6	3.7	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.3
158.5°	3.6	3.6	3.7	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.3
159°	3.5	3.6	3.7	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.4
159.5°	3.5	3.6	3.8	3.7	3.5	3.5	3.5	3.6	3.6	3.5	3.4
160°	3.4	3.6	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.4
160.5°	3.4	3.6	3.8	3.8	3.6	3.6	3.6	3.6	3.7	3.6	3.5
161°	3.4	3.5	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.5
161.5°	3.4	3.5	3.7	3.9	3.7	3.7	3.7	3.8	3.8	3.7	3.5
162°	3.4	3.4	3.6	3.9	3.8	3.8	3.8	3.8	3.9	3.8	3.6
162.5°	3.3	3.4	3.6	3.9	3.9	3.8	3.8	3.9	3.9	3.8	3.5
163°	3.3	3.4	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.8	3.5
163.5°	3.3	3.4	3.5	3.8	4.0	3.9	4.0	4.0	4.0	3.8	3.6
164°	3.3	3.4	3.4	3.7	4.0	4.0	4.0	4.0	4.0	3.9	3.5
164.5°	3.2	3.4	3.4	3.7	4.0	4.0	4.0	4.1	4.0	3.9	3.1
165°	3.2	3.4	3.4	3.6	4.0	4.0	4.1	4.1	4.0	3.6	3.0
165.5°	3.2	3.3	3.4	3.6	4.0	4.1	4.1	4.1	4.0	3.1	3.4
166°	3.1	3.3	3.4	3.4	3.9	4.1	4.1	4.1	3.9	3.2	3.6
166.5°	3.1	3.4	3.4	3.3	3.9	4.1	4.1	4.1	4.0	3.7	3.1
167°	3.1	3.5	3.4	3.3	3.8	4.1	4.1	4.2	3.5	3.5	2.7
167.5°	3.1	3.6	3.5	3.3	3.7	4.1	4.1	4.2	3.1	3.0	3.2
168°	3.1	3.6	3.6	3.3	3.7	4.1	4.1	4.1	3.5	2.8	3.5
168.5°	3.3	3.7	3.8	3.3	3.4	4.0	4.1	4.0	3.8	3.5	3.3
169°	3.2	3.6	3.8	3.4	3.3	4.0	4.0	4.0	3.0	3.5	3.2
169.5°	3.2	3.5	3.7	3.4	3.2	3.9	4.0	3.7	2.7	3.5	3.4
170°	3.3	3.5	3.7	3.6	3.2	3.8	4.0	3.2	3.5	3.5	3.4
170.5°	3.3	3.4	3.6	3.7	3.2	3.7	3.9	3.1	3.6	3.5	3.3
171°	3.3	3.4	3.5	3.6	3.2	3.6	3.9	3.1	3.4	3.5	3.3
171.5°	3.2	3.3	3.5	3.6	3.2	3.5	3.8	2.7	3.5	3.4	3.3
172°	3.2	3.3	3.4	3.5	3.3	3.1	3.7	2.9	3.6	3.4	3.2
172.5°	3.2	3.3	3.3	3.5	3.4	3.0	3.6	3.3	3.4	3.3	3.2
173°	3.1	3.2	3.3	3.4	3.4	3.0	3.4	3.3	3.4	3.2	3.1
173.5°	3.1	3.2	3.3	3.3	3.4	2.9	2.9	3.3	3.3	3.1	3.0
174°	3.1	3.2	3.2	3.3	3.3	2.9	2.5	3.3	3.2	3.1	3.0
174.5°	3.1	3.1	3.2	3.2	3.3	2.8	2.3	3.2	3.1	3.0	2.9
175°	3.1	3.1	3.1	3.2	3.2	2.8	2.7	3.1	3.0	3.0	2.9
175.5°	3.0	3.1	3.1	3.1	3.1	2.8	3.0	3.0	2.9	2.9	2.9
176°	3.0	3.0	3.0	3.1	3.1	2.7	3.0	2.9	2.9	2.9	2.9
176.5°	3.0	3.0	3.0	3.0	3.0	2.7	2.9	2.9	2.9	2.9	2.9
177°	2.9	2.9	2.9	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9
177.5°	2.9	2.9	2.8	2.8	2.9	1.1	2.9	2.9	2.9	2.9	2.8
178°	2.8	2.8	2.8	2.9	2.9	1.7	2.9	2.9	2.8	2.8	2.8
178.5°	2.9	2.9	2.9	2.8	2.6	2.2	2.7	2.8	2.9	2.9	2.8



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6





TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1507.3	1507.3	1507.3	1507.3
0.5°	1507.0	1507.0	1507.0	1507.0
1°	1506.7	1506.8	1506.7	1506.8
1.5°	1506.4	1506.5	1506.5	1506.8
2°	1505.2	1505.8	1506.4	1506.6
2.5°	1503.9	1504.2	1505.5	1506.0
3°	1502.8	1503.7	1504.8	1504.9
3.5°	1502.1	1503.5	1503.8	1504.0
4°	1501.1	1502.6	1502.6	1503.3
4.5°	1498.9	1500.6	1501.0	1501.7
5°	1497.7	1498.8	1500.1	1500.7
5.5°	1496.6	1497.2	1498.7	1499.7
6°	1494.2	1496.2	1497.0	1498.5
6.5°	1491.9	1493.3	1495.3	1496.9
7°	1490.8	1491.3	1494.0	1495.5
7.5°	1488.0	1489.8	1490.8	1493.4
8°	1485.1	1487.1	1489.6	1491.8
8.5°	1482.1	1484.4	1487.4	1489.0
9°	1479.7	1481.7	1484.6	1487.4
9.5°	1476.8	1479.1	1481.9	1484.7
10°	1473.2	1475.6	1479.3	1481.7
10.5°	1470.2	1473.3	1475.8	1478.9
11°	1466.7	1470.7	1473.8	1475.8
11.5°	1463.2	1467.1	1470.9	1472.6
12°	1459.7	1463.6	1467.9	1469.6
12.5°	1455.5	1459.8	1464.2	1466.7
13°	1451.3	1455.9	1460.6	1463.2
13.5°	1447.4	1451.9	1457.1	1459.3
14°	1443.1	1448.1	1452.9	1455.7
14.5°	1438.5	1444.5	1448.8	1452.0
15°	1433.9	1439.8	1444.6	1447.8
15.5°	1428.9	1434.9	1440.3	1444.0
16°	1423.9	1430.4	1436.5	1439.3
16.5°	1418.7	1425.4	1432.2	1434.1
17°	1413.9	1420.5	1427.1	1429.4
17.5°	1408.5	1415.6	1421.5	1425.4
18°	1403.3	1410.7	1416.6	1421.0
18.5°	1397.9	1405.6	1411.7	1415.4
19°	1391.9	1400.0	1406.6	1410.2
19.5°	1385.3	1394.4	1401.2	1404.9
20°	1379.3	1388.5	1395.3	1399.6
20.5°	1373.6	1382.3	1389.8	1394.3
21°	1367.8	1376.1	1383.7	1388.9



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
22.5°	1347.1	1357.3	1365.9	1370.5
23°	1340.2	1350.8	1359.3	1365.0
23.5°	1333.2	1343.8	1352.5	1358.1
24°	1326.1	1337.2	1346.0	1351.6
24.5°	1318.6	1330.2	1339.5	1345.4
25°	1311.4	1322.8	1332.7	1338.7
25.5°	1303.3	1315.9	1325.3	1331.6
26°	1296.3	1308.4	1318.2	1324.6
26.5°	1288.3	1300.8	1310.9	1317.2
27°	1280.4	1293.2	1303.3	1310.0
27.5°	1272.0	1286.1	1295.8	1302.7
28°	1263.9	1277.5	1288.3	1294.9
28.5°	1255.4	1269.5	1280.4	1287.2
29°	1246.4	1261.2	1272.6	1280.2
29.5°	1238.7	1252.7	1264.3	1272.3
30°	1230.0	1244.8	1256.2	1263.9
30.5°	1220.8	1236.0	1248.1	1256.0
31°	1211.5	1227.7	1239.7	1247.9
31.5°	1203.0	1218.3	1231.0	1239.5
32°	1193.5	1209.6	1222.1	1230.3
32.5°	1184.5	1200.6	1213.4	1221.6
33°	1175.4	1191.9	1204.4	1213.3
33.5°	1166.3	1183.2	1195.4	1204.2
34°	1156.2	1173.7	1186.4	1194.9
34.5°	1146.8	1163.9	1176.8	1185.4
35°	1137.3	1154.8	1167.9	1176.7
35.5°	1127.2	1145.0	1158.4	1167.6
36°	1117.2	1135.5	1148.7	1158.1
36.5°	1107.3	1125.5	1139.9	1148.3
37°	1097.3	1115.5	1130.4	1138.9
37.5°	1087.4	1105.6	1120.9	1129.6
38°	1077.1	1095.7	1110.3	1120.3
38.5°	1065.8	1085.8	1099.8	1109.9
39°	1055.0	1075.3	1089.3	1099.1
39.5°	1044.5	1064.7	1078.9	1088.5
40°	1034.0	1054.4	1069.2	1078.3
40.5°	1023.5	1044.0	1059.1	1068.6
41°	1012.4	1033.1	1048.3	1058.2
41.5°	1001.7	1022.1	1038.0	1047.4
42°	990.3	1011.4	1027.2	1037.1
42.5°	979.3	1000.7	1016.2	1026.7
43°	968.3	989.6	1005.3	1015.8
43.5°	957.2	978.4	994.7	1004.5



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
45°	923.2	945.6	961.6	971.5
45.5°	912.1	934.1	950.1	960.8
46°	900.6	922.9	938.9	949.2
46.5°	889.2	911.5	927.4	937.4
47°	878.1	900.2	916.3	925.9
47.5°	866.3	888.8	904.8	914.9
48°	854.9	876.7	893.0	903.8
48.5°	842.9	865.5	881.8	891.9
49°	831.5	854.0	870.3	880.8
49.5°	820.1	842.1	858.5	869.0
50°	808.0	830.3	846.6	857.3
50.5°	796.4	818.9	834.8	845.3
51°	785.2	806.8	823.4	833.7
51.5°	773.5	795.4	811.8	821.8
52°	761.4	783.5	799.4	810.3
52.5°	749.7	771.5	787.9	798.1
53°	737.8	759.8	775.7	786.2
53.5°	726.4	747.8	764.0	774.3
54°	714.6	735.9	752.0	762.4
54.5°	703.0	724.1	740.0	750.2
55°	691.5	712.4	728.1	737.9
55.5°	678.8	700.7	715.9	726.2
56°	667.2	688.0	703.6	713.8
56.5°	655.7	676.6	692.0	701.8
57°	644.1	664.6	679.9	690.2
57.5°	632.0	652.7	668.0	677.6
58°	620.3	640.2	655.4	665.3
58.5°	608.5	628.4	643.4	653.4
59°	597.3	616.3	631.3	641.0
59.5°	585.1	604.4	619.4	628.9
60°	573.4	592.3	607.3	616.4
60.5°	561.4	580.5	595.0	604.3
61°	550.1	568.7	582.7	592.1
61.5°	538.2	556.6	570.5	580.0
62°	526.6	544.7	558.3	567.6
62.5°	515.0	533.0	546.1	555.4
63°	503.6	520.9	534.0	543.1
63.5°	491.9	508.9	522.0	531.1
64°	480.0	497.1	509.7	518.6
64.5°	468.6	485.1	497.9	506.1
65°	457.5	473.1	485.7	493.7
65.5°	445.7	461.5	473.4	481.1
66°	434.7	449.9	461.3	468.6



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
67.5°	400.5	414.6	425.4	432.1
68°	389.1	402.5	413.2	420.2
68.5°	377.7	391.0	400.9	407.9
69°	366.9	379.1	389.2	395.6
69.5°	355.7	367.5	377.1	383.6
70°	344.5	356.1	365.4	371.4
70.5°	333.4	344.6	353.4	359.3
71°	322.5	333.0	341.7	347.4
71.5°	311.6	321.5	329.7	335.4
72°	300.7	310.2	317.9	323.6
72.5°	289.8	299.0	305.9	311.8
73°	279.1	287.5	294.5	299.6
73.5°	268.8	276.6	282.9	287.5
74°	258.1	265.2	271.4	276.0
74.5°	247.4	254.1	259.9	264.4
75°	237.1	242.9	248.3	252.8
75.5°	226.9	232.2	236.9	241.0
76°	216.9	221.3	226.1	229.6
76.5°	206.7	210.8	214.6	218.3
77°	196.8	200.0	203.7	207.1
77.5°	186.8	189.8	192.7	195.7
78°	177.2	179.1	182.0	184.9
78.5°	167.8	169.2	171.0	173.7
79°	158.4	159.2	160.6	162.9
79.5°	149.2	149.5	150.6	152.2
80°	140.6	140.2	140.8	142.2
80.5°	132.0	131.0	131.0	131.8
81°	123.4	121.7	121.2	121.7
81.5°	114.8	112.4	111.5	111.8
82°	106.3	103.2	101.7	102.1
82.5°	98.2	94.7	92.5	92.2
83°	90.2	86.4	83.9	83.5
83.5°	82.7	78.1	75.2	74.7
84°	75.5	70.2	66.9	66.4
84.5°	68.7	62.9	58.9	58.1
85°	61.9	55.8	51.6	50.5
85.5°	55.9	49.1	44.3	43.9
86°	50.0	42.8	37.7	37.3
86.5°	44.4	36.9	31.4	30.8
87°	39.2	31.4	25.7	24.3
87.5°	34.5	26.5	21.7	18.6
88°	30.1	22.1	17.6	13.5
88.5°	26.2	19.2	13.6	9.0



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
90°	16.7	10.4	3.9	2.9
90.5°	15.1	7.7	2.6	1.6
91°	13.4	6.3	1.9	0.3
91.5°	11.8	5.3	1.5	0.3
92°	10.2	4.6	1.3	0.2
92.5°	8.6	4.1	1.2	0.1
93°	7.8	3.8	1.1	0.1
93.5°	7.2	3.5	1.0	0.2
94°	6.8	3.3	1.0	0.2
94.5°	6.4	3.1	0.9	0.3
95°	6.1	3.0	0.9	0.3
95.5°	5.8	2.9	0.9	0.4
96°	5.4	2.9	0.9	0.4
96.5°	5.2	2.9	0.9	0.5
97°	5.0	2.8	0.9	0.6
97.5°	5.0	2.7	0.8	0.6
98°	4.9	2.6	0.8	0.7
98.5°	4.9	2.5	0.8	0.7
99°	4.9	2.4	0.8	0.8
99.5°	4.8	2.4	0.9	0.9
100°	4.8	2.3	1.0	1.0
100.5°	4.6	2.3	1.0	1.1
101°	4.5	2.3	1.1	1.1
101.5°	4.3	2.3	1.1	1.2
102°	4.1	2.3	1.2	1.3
102.5°	4.0	2.2	1.3	1.4
103°	3.9	2.1	1.3	1.5
103.5°	3.8	2.0	1.4	1.5
104°	3.7	1.9	1.5	1.5
104.5°	3.6	1.9	1.5	1.6
105°	3.5	1.8	1.6	1.6
105.5°	3.5	1.8	1.6	1.6
106°	3.4	1.7	1.7	1.6
106.5°	3.3	1.7	2.0	1.6
107°	3.2	1.6	2.1	1.6
107.5°	3.0	1.6	2.0	1.6
108°	2.9	1.5	2.0	1.6
108.5°	2.8	1.5	2.0	1.6
109°	2.7	1.5	1.9	1.6
109.5°	2.5	1.5	1.9	1.6
110°	2.4	1.6	1.8	1.6
110.5°	2.4	1.6	1.8	1.6
111°	2.3	1.6	1.9	1.6



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	2.2	1.7	1.9	1.7
113°	2.2	1.7	1.9	1.7
113.5°	2.0	1.8	1.9	1.7
114°	1.9	1.8	2.0	1.7
114.5°	1.9	1.9	2.0	1.8
115°	1.9	1.9	2.0	1.8
115.5°	1.8	2.0	2.0	1.8
116°	1.8	2.0	2.0	1.8
116.5°	1.9	2.0	2.0	1.8
117°	1.9	2.1	2.0	1.8
117.5°	2.0	2.3	2.0	1.8
118°	2.0	2.4	2.0	1.8
118.5°	2.1	2.5	2.0	1.8
119°	2.1	2.5	2.0	1.8
119.5°	2.1	2.5	2.1	1.8
120°	2.2	2.5	2.1	1.9
120.5°	2.2	2.5	2.1	1.9
121°	2.3	2.5	2.2	1.9
121.5°	2.3	2.5	2.2	1.9
122°	2.3	2.5	2.2	1.9
122.5°	2.3	2.4	2.2	2.0
123°	2.3	2.4	2.2	2.0
123.5°	2.3	2.3	2.2	2.0
124°	2.4	2.3	2.2	2.0
124.5°	2.5	2.3	2.3	2.0
125°	2.5	2.3	2.3	2.0
125.5°	2.7	2.4	2.3	2.1
126°	2.8	2.6	2.3	2.1
126.5°	2.9	2.6	2.4	2.1
127°	3.0	2.7	2.4	2.1
127.5°	3.1	2.7	2.4	2.2
128°	3.2	2.7	2.4	2.2
128.5°	3.2	2.7	2.4	2.2
129°	3.1	2.7	2.5	2.2
129.5°	3.1	2.7	2.5	2.2
130°	3.1	2.7	2.5	2.2
130.5°	3.1	2.7	2.4	2.2
131°	3.0	2.7	2.2	2.3
131.5°	2.9	2.7	2.2	2.3
132°	2.9	2.7	2.3	2.3
132.5°	2.8	2.7	2.4	2.3
133°	2.8	2.7	2.5	2.3
133.5°	2.8	2.7	2.6	2.3



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
135°	2.8	2.6	2.4	2.3
135.5°	2.8	2.6	2.4	2.3
136°	2.8	2.6	2.5	2.3
136.5°	2.8	2.6	2.5	2.3
137°	2.9	2.6	2.5	2.3
137.5°	2.9	2.6	2.4	2.3
138°	2.9	2.6	2.3	2.3
138.5°	2.9	2.7	2.4	2.3
139°	2.9	2.7	2.4	2.4
139.5°	2.9	2.7	2.4	2.4
140°	2.9	2.8	2.5	2.4
140.5°	2.9	2.8	2.5	2.4
141°	2.9	2.8	2.5	2.4
141.5°	2.9	2.8	2.5	2.4
142°	2.9	2.8	2.5	2.4
142.5°	2.9	2.8	2.5	2.4
143°	2.9	2.8	2.5	2.4
143.5°	2.9	2.8	2.5	2.4
144°	2.9	2.9	2.5	2.4
144.5°	2.9	2.9	2.5	2.4
145°	2.9	2.9	2.5	2.4
145.5°	2.9	2.9	2.5	2.4
146°	2.9	2.9	2.5	2.4
146.5°	2.9	2.9	2.5	2.4
147°	3.0	2.9	2.5	2.4
147.5°	3.0	2.9	2.5	2.4
148°	3.0	3.0	2.5	2.4
148.5°	3.0	3.0	2.5	2.4
149°	3.0	3.0	2.5	2.3
149.5°	3.0	3.0	2.5	2.3
150°	3.0	3.0	2.5	2.3
150.5°	3.1	3.0	2.4	2.3
151°	3.1	3.0	2.4	2.2
151.5°	3.1	3.0	2.4	2.1
152°	3.1	3.0	2.4	2.1
152.5°	3.1	2.9	2.4	2.1
153°	3.1	2.9	2.3	2.1
153.5°	3.1	2.8	2.2	1.9
154°	3.1	2.8	2.1	1.8
154.5°	3.1	2.8	2.1	1.7
155°	3.1	2.7	2.1	1.7
155.5°	3.2	2.6	2.0	1.8
156°	3.2	2.5	1.8	1.7



TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
157.5°	3.2	2.5	1.8	1.6
158°	3.2	2.5	1.7	1.6
158.5°	3.2	2.4	1.7	1.6
159°	3.2	2.4	1.7	1.6
159.5°	3.2	2.4	1.7	1.6
160°	3.2	2.4	1.7	1.6
160.5°	3.3	2.4	1.7	1.6
161°	3.3	2.4	1.7	1.6
161.5°	3.3	2.4	1.7	1.6
162°	3.3	2.4	1.6	1.6
162.5°	3.3	2.3	1.6	1.6
163°	3.2	2.2	1.6	1.6
163.5°	3.3	2.1	1.6	1.6
164°	3.3	2.1	1.6	1.6
164.5°	2.9	2.1	1.6	1.6
165°	2.8	2.0	1.6	1.7
165.5°	3.0	1.9	1.6	1.7
166°	3.1	1.8	1.6	1.7
166.5°	2.7	1.8	1.6	1.7
167°	2.5	1.8	1.6	1.7
167.5°	2.9	2.0	1.7	1.7
168°	3.1	2.2	1.7	1.7
168.5°	2.9	2.2	1.8	1.7
169°	2.8	2.2	1.8	1.8
169.5°	2.9	2.4	1.9	1.8
170°	2.8	2.4	2.2	1.9
170.5°	2.8	2.4	2.3	2.1
171°	3.0	2.6	2.3	2.4
171.5°	3.0	2.7	2.5	2.4
172°	3.0	2.7	2.6	2.4
172.5°	3.0	2.8	2.6	2.5
173°	2.9	2.8	2.7	2.5
173.5°	2.9	2.8	2.7	2.5
174°	2.9	2.8	2.8	2.6
174.5°	2.9	2.8	2.8	2.7
175°	2.9	2.8	2.8	2.8
175.5°	2.9	2.8	2.8	2.8
176°	2.8	2.8	2.8	2.8
176.5°	2.8	2.8	2.8	2.8
177°	2.8	2.8	2.8	2.8
177.5°	2.8	2.8	2.8	2.8
178°	2.8	2.8	2.8	2.8
178.5°	2.8	2.8	2.8	2.9





TEST NUMBER: P563544

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
180°	2.6	2.6	2.6	2.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







21.5°	1383.1	1386.4	1386.1	1383.6	1378.5	1372.5	1366.1	1360.8	1356.3	1354.0	1353.1
22°	1376.6	1380.2	1380.1	1377.1	1372.2	1365.9	1358.9	1353.4	1349.4	1346.3	1345.6



44°	993.6	997.3	992.6	982.1	965.0	944.1	922.9	904.6	891.2	884.5	885.5
44.5°	982.6	985.7	981.8	970.7	953.6	932.3	911.4	892.9	879.4	873.0	873.0





66.5°	456.3	460.6	459.5	453.1	442.7	428.3	415.1	403.5	395.0	390.1	388.8
67°	444.1	448.0	447.6	441.8	431.4	417.9	405.3	393.8	385.3	380.7	379.7



89°	5.6	11.0	21.0	32.4	43.1	50.5	56.5	60.0	61.3	60.7	58.5
89.5°	4.2	7.7	17.2	28.2	38.8	46.8	52.7	55.7	57.1	56.7	54.5



111.5°	1.6	1.6	1.3	1.2	1.6	2.5	3.6	4.7	5.5	5.7	5.5
112°	1.6	1.6	1.4	1.2	1.6	2.4	3.4	4.5	5.2	5.4	5.2



134°	2.3	2.4	2.3	2.8	2.9	2.6	2.5	2.6	2.6	2.7	2.8
134.5°	2.3	2.4	2.4	2.9	3.0	2.6	2.6	2.6	2.7	2.8	2.9



156.5°	1.6	2.5	2.9	2.8	2.8	2.8	3.0	3.3	3.5	3.6	3.6
157°	1.6	2.4	2.9	2.8	2.8	2.8	3.0	3.2	3.4	3.5	3.6



179°	2.8	2.7	2.6	2.4	2.2	2.1	2.3	2.5	2.7	2.8	2.8
179.5°	2.6	2.5	2.5	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.6





21.5°	1354.4	1358.0	1361.2	1365.2	1368.9	1370.6	1370.7	1368.9	1364.8	1358.4	1350.2
22°	1346.9	1350.2	1354.3	1358.8	1362.9	1364.2	1364.5	1362.8	1358.1	1351.6	1343.2





44°	891.9	905.2	922.3	938.4	952.8	963.2	967.2	965.5	958.5	945.6	926.7
44.5°	880.5	893.9	910.7	926.5	941.4	951.8	955.3	954.6	947.6	934.2	915.0



66.5°	391.6	397.6	405.7	414.0	421.2	426.1	425.0	424.2	419.0	411.6	400.7
67°	382.3	387.7	395.4	403.0	409.6	413.5	413.2	412.1	407.1	399.8	389.5



89°	54.6	49.1	42.1	32.1	21.6	11.5	4.7	0.7	3.8	10.7	17.6
89.5°	51.0	45.6	38.1	28.6	18.5	9.3	3.6	0.7	2.8	8.0	15.9



111.5°	4.7	3.8	2.8	2.1	2.1	2.5	3.1	2.8	3.2	2.4	2.8
112°	4.6	3.6	2.6	2.0	2.1	2.6	3.1	2.9	3.3	2.5	2.8



134°	3.0	3.4	4.0	4.8	4.9	3.9	3.4	3.2	4.0	4.2	3.8
134.5°	3.1	3.5	4.0	4.9	4.9	3.9	3.4	3.2	4.0	4.2	3.8



156.5°	3.6	3.4	3.3	3.4	3.4	3.2	3.0	2.7	2.8	3.2	3.5
157°	3.5	3.3	3.3	3.4	3.3	3.1	2.9	2.7	2.8	3.1	3.5



179°	2.6	2.5	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.8
179.5°	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4







21.5°	1341.4	1332.0	1324.2	1317.8	1314.6	1313.8	1315.7	1321.4	1329.6	1340.1	1350.8
22°	1334.3	1324.1	1315.8	1310.1	1306.7	1305.1	1307.8	1312.9	1321.6	1332.3	1343.5



44°	905.6	882.3	861.6	845.1	835.1	832.4	837.6	850.7	870.7	894.7	921.6
44.5°	894.3	870.3	849.8	833.5	823.0	820.3	825.8	839.2	859.1	883.4	909.6



66.5°	388.7	376.3	365.6	357.6	353.0	352.6	356.1	363.9	375.3	390.1	406.4
67°	377.8	365.9	356.0	348.4	344.1	343.6	346.7	354.6	365.5	379.6	395.6



89°	25.6	32.8	38.6	42.7	45.4	46.5	46.3	44.7	41.5	36.7	30.2
89.5°	22.8	29.8	35.5	39.6	42.3	43.4	43.1	41.4	38.2	33.3	26.9



111.5°	4.4	6.3	7.8	8.8	9.4	9.6	9.4	8.5	7.2	5.7	3.9
112°	4.3	6.2	7.6	8.6	9.1	9.4	9.2	8.3	7.0	5.6	3.8



134°	3.6	3.1	2.7	2.5	2.4	2.4	2.4	2.4	2.5	2.7	3.1
134.5°	3.7	3.1	2.8	2.6	2.4	2.4	2.4	2.5	2.6	2.8	3.2



156.5°	3.8	3.8	3.5	3.5	3.4	3.5	3.4	3.4	3.3	3.2	3.2
157°	3.9	3.8	3.6	3.5	3.4	3.5	3.5	3.4	3.4	3.3	3.2



179°	2.8	2.7	2.6	2.5	2.5	2.6	2.6	2.7	2.8	2.9	2.9
179.5°	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.7







21.5°	1361.0	1370.4	1377.6	1383.1
22°	1353.8	1364.4	1372.2	1376.6



44°	946.1	967.8	983.3	993.6
44.5°	935.4	956.4	972.6	982.6



66.5°	423.0	438.1	449.3	456.3
67°	411.6	426.3	437.6	444.1



89°	22.6	16.3	9.5	5.6
89.5°	19.5	13.4	5.7	4.2



111.5°	2.3	1.6	1.9	1.6
112°	2.2	1.7	1.9	1.6



134°	2.8	2.6	2.5	2.3
134.5°	2.8	2.6	2.5	2.3



156.5°	3.2	2.5	1.8	1.6
157°	3.2	2.5	1.8	1.6





179°	2.9	2.8	2.8	2.8
179.5°	2.7	2.7	2.6	2.6



(END OF REPORT)