

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: P563543

Luminaire Tested: **4NWS3C3-UNV-LOW-3500K**

Issue Date: 7/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563543
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-3500K
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND LOW LUMEN SETTING
Light Source: -
Ballast/Driver:

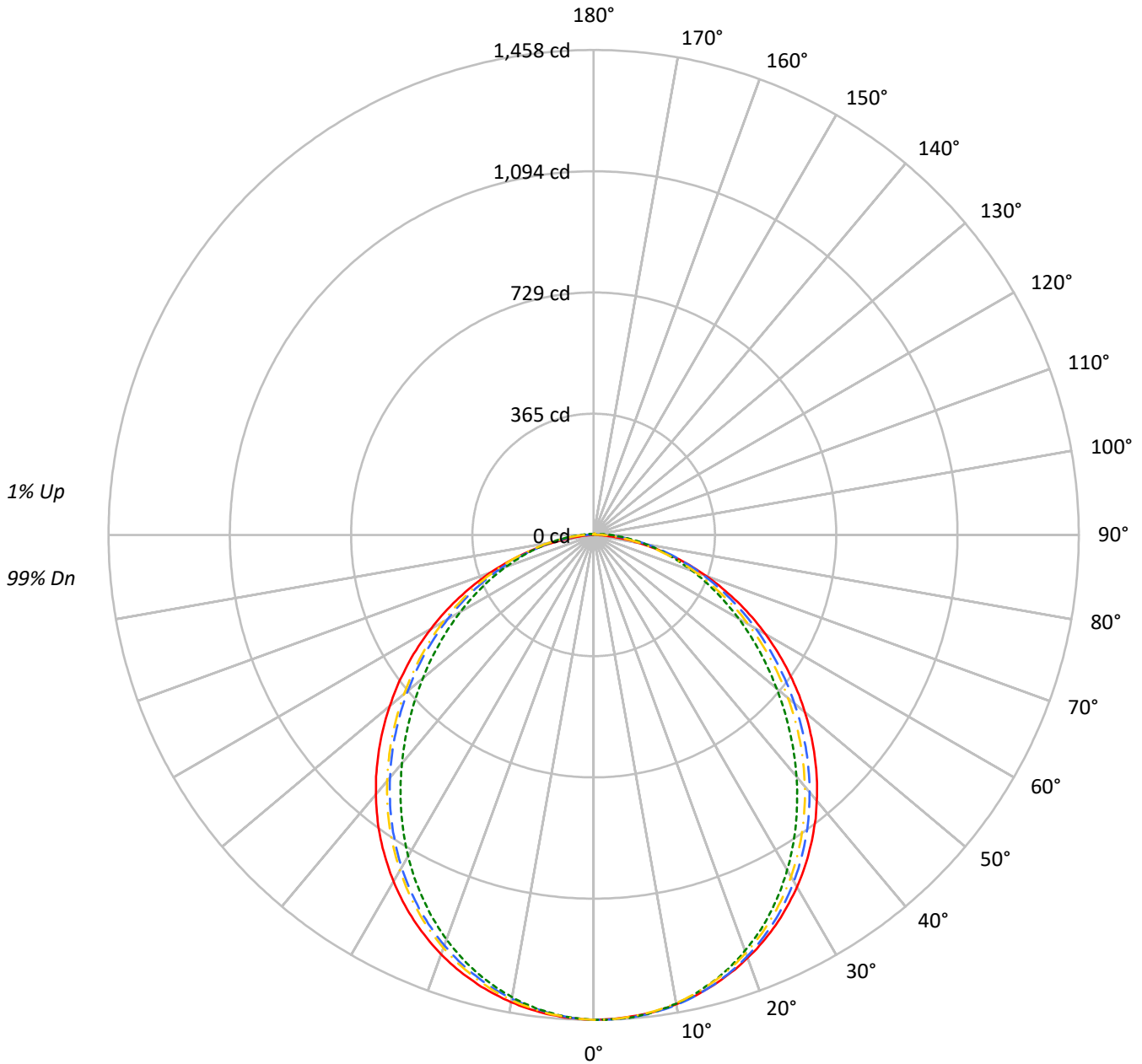
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800.0 lumens
Efficiency: N/A
Efficacy: 133.3 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): 28.5
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°	8859	8859	8859	8859
5°	8838	8726	8822	8661
10°	8811	8551	8773	8434
15°	8761	8326	8701	8156
20°	8688	8053	8611	7835
25°	8599	7736	8491	7465
30°	8476	7366	8342	7061
35°	8322	6952	8161	6616
40°	8131	6501	7941	6146
45°	7911	6028	7684	5661
50°	7650	5547	7381	5179
55°	7344	5086	7032	4708
60°	6994	4626	6627	4245
65°	6572	4159	6140	3776
70°	6038	3690	5518	3290
75°	5327	3203	4678	2770
80°	4306	2679	3505	2224
85°	2757	2139	1770	1700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.6
10°-20°	390.4	10.3
20°-30°	579.8	15.3
30°-40°	675.9	17.8
40°-50°	669.1	17.6
50°-60°	574.6	15.1
60°-70°	420.6	11.1
70°-80°	238.7	6.3
80°-90°	79.5	2.1
90°-100°	14.4	0.4
100°-110°	6.1	0.2
110°-120°	3.6	0.1
120°-130°	2.6	0.1
130°-140°	2.3	0.1
140°-150°	2.1	0.1
150°-160°	1.5	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	1107.8	29.2
0°-40°	1783.7	46.9
0°-60°	3027.5	79.7
0°-90°	3766.3	99.1
90°-120°	24.1	0.6
90°-150°	31.1	0.8
90°-180°	34.0	0.9
0°-180°	3800.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1458	1458	1458	1458	1458	
5°	1451	1454	1448	1443	1451	138
15°	1400	1390	1390	1361	1400	395
25°	1294	1254	1278	1210	1294	596
35°	1138	1060	1116	1009	1138	711
45°	939	833	912	782	939	724
55°	714	608	683	563	714	638
65°	477	405	446	368	477	472
75°	244	232	215	200	244	259
85°	49	96	31	77	49	58
90°	3	51	1	39	3	2
95°	0	25	0	20	0	0
105°	2	9	2	12	2	1
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	3	2	1
155°	2	4	3	3	2	1
165°	2	3	2	4	2	0
175°	3	3	3	3	3	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5
0.5°	1457.1	1457.2	1457.3	1457.4	1457.6	1457.7	1457.8	1457.8	1457.8	1457.8	1457.8
1°	1457.0	1457.1	1457.4	1457.7	1457.9	1457.9	1458.0	1458.0	1457.5	1457.0	1457.4
1.5°	1457.0	1457.6	1457.6	1457.1	1456.9	1457.1	1457.6	1458.0	1457.5	1458.2	1458.3
2°	1456.7	1457.1	1457.2	1457.1	1457.4	1457.9	1458.2	1458.2	1457.4	1457.5	1457.8
2.5°	1456.2	1456.6	1456.6	1456.7	1456.8	1456.3	1456.5	1456.4	1457.8	1457.0	1456.4
3°	1455.2	1455.5	1456.1	1456.4	1456.8	1456.8	1457.2	1457.4	1456.9	1456.8	1456.8
3.5°	1454.2	1454.9	1455.5	1456.6	1456.2	1456.5	1456.5	1456.1	1456.6	1455.6	1455.2
4°	1453.6	1454.8	1454.5	1455.8	1455.5	1455.7	1455.6	1455.4	1454.6	1456.2	1454.9
4.5°	1452.0	1453.2	1453.6	1454.5	1455.2	1455.1	1454.5	1455.2	1454.6	1454.7	1453.3
5°	1451.1	1452.2	1452.7	1453.2	1454.0	1454.0	1452.7	1453.2	1453.6	1453.6	1452.3
5.5°	1450.1	1451.2	1451.8	1452.0	1452.5	1452.1	1451.6	1451.6	1452.2	1451.9	1450.5
6°	1449.0	1449.9	1450.2	1450.9	1451.6	1450.9	1450.6	1450.2	1450.4	1449.9	1448.5
6.5°	1447.4	1448.6	1448.9	1449.3	1450.1	1449.5	1449.7	1448.6	1448.7	1448.5	1447.0
7°	1446.0	1446.6	1447.9	1447.5	1447.6	1446.7	1448.0	1446.6	1446.5	1446.4	1445.2
7.5°	1444.0	1444.7	1445.7	1446.6	1446.4	1445.7	1445.3	1444.8	1444.2	1443.1	1443.2
8°	1442.5	1442.5	1444.1	1444.3	1444.2	1443.7	1443.1	1442.7	1442.2	1441.4	1441.0
8.5°	1439.7	1440.1	1442.2	1441.9	1442.2	1441.8	1440.9	1440.3	1439.4	1438.9	1437.8
9°	1438.2	1439.5	1439.6	1440.2	1440.2	1439.6	1438.1	1437.9	1436.8	1437.2	1435.1
9.5°	1435.5	1436.8	1437.9	1437.5	1437.8	1436.5	1434.9	1434.9	1434.2	1432.7	1432.2
10°	1432.7	1434.3	1435.1	1435.2	1435.0	1434.0	1432.4	1431.4	1430.9	1431.2	1429.8
10.5°	1430.0	1431.4	1432.7	1432.8	1432.2	1431.1	1429.2	1428.2	1427.6	1427.4	1426.2
11°	1427.0	1428.0	1429.6	1429.7	1429.2	1428.5	1425.6	1425.3	1425.0	1424.0	1422.9
11.5°	1423.9	1425.9	1426.6	1426.9	1425.7	1425.3	1422.5	1422.1	1421.2	1420.5	1419.2
12°	1421.0	1422.7	1424.0	1424.1	1422.7	1421.6	1419.6	1418.4	1416.4	1416.8	1414.8
12.5°	1418.2	1419.5	1420.8	1420.9	1419.0	1418.2	1416.0	1414.5	1412.9	1412.4	1411.3
13°	1414.8	1416.7	1417.6	1417.1	1415.0	1414.7	1412.0	1410.7	1409.2	1407.7	1407.1
13.5°	1411.0	1413.3	1414.3	1413.9	1411.7	1410.9	1407.3	1406.2	1404.8	1403.2	1401.9
14°	1407.5	1409.6	1410.5	1410.6	1407.8	1406.2	1403.6	1401.8	1400.3	1398.4	1397.8
14.5°	1404.0	1406.0	1406.8	1406.8	1403.5	1402.4	1399.8	1397.2	1394.9	1394.4	1392.5
15°	1399.9	1402.3	1402.8	1402.4	1399.9	1398.2	1395.0	1392.6	1390.4	1389.6	1388.5
15.5°	1396.2	1398.4	1398.5	1397.9	1396.0	1393.9	1389.7	1388.2	1385.4	1384.7	1382.9
16°	1391.7	1394.4	1394.8	1393.8	1391.2	1388.9	1385.2	1382.9	1380.7	1378.9	1377.4
16.5°	1386.7	1390.1	1390.8	1389.7	1386.6	1384.1	1380.0	1377.4	1375.2	1373.0	1372.5
17°	1382.1	1385.9	1385.9	1385.3	1382.4	1379.2	1375.1	1371.8	1369.3	1368.1	1367.4
17.5°	1378.2	1381.0	1381.4	1380.3	1377.5	1373.9	1368.9	1366.3	1363.2	1362.6	1361.0
18°	1374.0	1376.2	1376.9	1375.5	1372.2	1368.7	1363.9	1360.6	1357.5	1355.9	1355.2
18.5°	1368.6	1372.1	1372.4	1370.8	1367.2	1363.4	1358.1	1354.5	1352.0	1349.8	1349.0
19°	1363.5	1367.3	1367.7	1365.5	1362.1	1357.7	1352.8	1348.5	1345.4	1343.4	1343.1
19.5°	1358.4	1361.8	1362.0	1360.2	1356.3	1351.6	1346.4	1342.4	1338.6	1337.7	1335.5
20°	1353.3	1356.5	1356.4	1354.8	1350.8	1345.7	1339.8	1335.8	1332.4	1329.9	1329.3
20.5°	1348.1	1351.4	1351.3	1349.2	1345.2	1340.0	1333.5	1329.0	1325.8	1323.4	1322.2
21°	1343.0	1346.1	1345.8	1343.5	1338.8	1333.6	1327.5	1322.3	1319.1	1316.1	1315.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1325.1	1328.5	1328.7	1325.5	1320.6	1314.3	1307.1	1301.4	1297.1	1294.7	1293.2
23°	1319.8	1322.7	1322.4	1319.3	1314.2	1307.7	1300.2	1294.1	1289.4	1287.8	1286.0
23.5°	1313.2	1316.7	1316.3	1313.0	1307.7	1300.5	1293.2	1286.3	1281.6	1279.3	1278.0
24°	1306.9	1310.5	1310.3	1306.3	1300.7	1293.6	1285.2	1278.6	1273.7	1271.4	1270.3
24.5°	1300.9	1304.0	1303.5	1299.9	1293.5	1286.2	1278.6	1271.3	1265.8	1263.1	1261.8
25°	1294.5	1297.9	1296.8	1293.2	1286.8	1278.8	1270.8	1263.3	1257.6	1254.3	1253.7
25.5°	1287.5	1291.0	1290.3	1286.2	1280.3	1271.4	1262.7	1255.1	1249.5	1246.4	1245.0
26°	1280.8	1283.6	1283.3	1278.6	1272.9	1263.5	1254.5	1246.4	1240.5	1236.9	1236.8
26.5°	1273.7	1277.1	1275.6	1272.0	1264.7	1255.7	1246.1	1238.2	1232.1	1228.9	1227.6
27°	1266.6	1270.5	1268.6	1264.2	1257.0	1247.9	1238.0	1229.6	1223.4	1219.4	1219.3
27.5°	1259.6	1263.3	1261.9	1256.5	1249.4	1239.5	1230.5	1220.8	1213.7	1211.0	1210.1
28°	1252.0	1256.0	1254.8	1249.3	1241.6	1231.4	1220.8	1212.3	1205.1	1201.6	1200.5
28.5°	1244.6	1248.5	1247.2	1241.9	1234.0	1223.4	1212.4	1203.4	1195.3	1191.3	1190.9
29°	1237.8	1241.2	1239.7	1233.9	1225.4	1214.7	1203.9	1194.1	1187.1	1182.9	1181.8
29.5°	1230.2	1233.7	1231.7	1226.4	1217.2	1206.2	1195.4	1184.8	1176.5	1173.1	1173.1
30°	1222.1	1225.3	1223.9	1217.7	1208.9	1197.3	1185.7	1175.5	1167.3	1163.1	1163.4
30.5°	1214.4	1217.5	1215.9	1210.1	1200.4	1188.2	1176.6	1166.0	1156.7	1153.5	1152.8
31°	1206.6	1210.1	1207.6	1202.0	1192.3	1179.7	1166.9	1156.2	1147.9	1143.7	1142.6
31.5°	1198.5	1202.1	1199.6	1193.1	1183.6	1170.9	1157.5	1146.2	1137.8	1133.3	1132.3
32°	1189.6	1193.1	1191.0	1184.2	1174.3	1161.2	1148.2	1136.7	1127.7	1122.9	1122.6
32.5°	1181.2	1184.7	1182.6	1175.3	1165.2	1151.8	1138.7	1126.9	1118.3	1112.6	1112.4
33°	1173.1	1176.5	1173.9	1167.2	1156.2	1142.8	1129.2	1116.6	1107.7	1102.5	1102.3
33.5°	1164.4	1167.8	1165.4	1158.5	1147.4	1133.3	1119.3	1106.8	1097.0	1091.8	1091.5
34°	1155.4	1159.4	1156.5	1149.1	1138.2	1123.3	1108.8	1096.2	1086.5	1081.0	1081.0
34.5°	1146.2	1150.4	1147.7	1140.1	1128.9	1113.6	1098.7	1085.2	1075.6	1070.7	1070.1
35°	1137.8	1141.5	1139.0	1131.1	1119.1	1103.9	1088.8	1074.9	1064.6	1059.8	1059.6
35.5°	1129.0	1132.4	1130.2	1121.9	1109.3	1093.7	1078.4	1064.4	1053.8	1049.1	1048.7
36°	1119.8	1123.8	1120.3	1112.6	1099.9	1083.8	1068.1	1053.9	1042.9	1038.2	1037.7
36.5°	1110.3	1114.0	1111.1	1102.6	1090.5	1074.0	1057.7	1042.9	1032.1	1026.6	1027.2
37°	1101.2	1104.4	1101.7	1093.3	1080.4	1064.0	1047.4	1032.5	1020.6	1015.6	1016.0
37.5°	1092.2	1094.9	1092.1	1083.7	1070.4	1053.6	1036.6	1021.5	1009.9	1004.5	1004.7
38°	1083.3	1085.4	1082.9	1073.6	1060.3	1043.1	1025.7	1010.5	999.1	993.1	993.0
38.5°	1073.2	1075.9	1072.4	1063.8	1050.0	1032.6	1015.0	999.3	988.0	982.6	982.1
39°	1062.8	1066.2	1062.9	1053.7	1039.8	1022.3	1004.4	988.3	977.0	970.8	970.4
39.5°	1052.5	1056.8	1053.0	1043.8	1029.3	1011.2	993.6	977.2	965.1	959.8	959.8
40°	1042.6	1046.5	1043.3	1033.2	1019.0	1000.3	982.1	966.1	953.8	948.2	948.3
40.5°	1033.2	1036.4	1033.3	1023.3	1008.4	989.8	971.1	954.7	942.2	936.7	936.3
41°	1023.2	1026.2	1023.0	1012.8	997.9	978.8	960.1	943.6	930.9	925.4	924.7
41.5°	1012.7	1015.8	1012.4	1002.7	987.3	968.0	948.7	931.9	918.8	913.5	913.4
42°	1002.8	1006.2	1002.3	991.8	976.9	957.4	938.2	920.7	908.0	902.6	901.7
42.5°	992.8	995.8	991.9	981.8	965.4	946.2	926.9	909.5	896.6	890.7	890.2
43°	982.2	985.2	981.4	970.5	954.7	935.0	915.5	897.9	885.0	879.4	878.9
43.5°	971.3	974.9	970.7	960.3	944.4	924.0	904.0	886.4	873.3	867.5	867.4



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CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	939.4	942.7	938.5	927.4	911.5	890.4	870.1	852.0	838.6	832.7	832.5
45.5°	929.0	931.9	927.6	916.4	899.8	879.1	858.8	840.5	827.5	820.9	820.9
46°	917.8	921.1	916.9	905.5	888.7	867.7	847.0	829.0	816.3	808.9	809.6
46.5°	906.4	909.8	905.7	894.4	877.5	856.3	835.4	817.5	804.1	798.1	798.3
47°	895.3	899.1	895.3	883.3	866.5	845.0	824.0	805.9	792.4	786.6	786.3
47.5°	884.6	887.9	884.0	872.7	855.5	833.7	813.0	794.0	781.0	775.1	774.7
48°	873.9	877.0	872.7	861.7	844.5	822.3	801.5	782.8	769.9	763.2	763.8
48.5°	862.4	865.3	861.2	850.2	833.0	811.0	790.3	771.5	758.0	752.1	752.3
49°	851.7	855.1	849.9	838.3	821.6	799.7	778.7	760.2	746.9	740.5	740.4
49.5°	840.3	843.4	839.6	827.5	810.0	788.2	767.5	748.7	735.3	729.1	729.5
50°	829.0	832.4	827.9	816.5	798.5	776.7	756.2	737.3	724.5	717.6	717.9
50.5°	817.3	820.9	816.6	805.3	787.4	765.5	744.7	725.8	712.6	706.5	706.3
51°	806.2	809.6	804.9	793.2	776.2	754.1	733.4	714.9	702.1	695.1	694.8
51.5°	794.6	798.2	793.6	782.3	764.8	742.7	721.7	703.5	690.3	684.8	684.2
52°	783.5	786.9	782.5	770.7	753.2	731.7	710.8	692.6	679.5	672.9	673.1
52.5°	771.7	775.0	770.4	759.2	741.7	719.9	699.4	681.4	668.7	662.3	662.1
53°	760.2	763.7	759.3	747.6	730.2	708.5	688.1	670.3	657.7	650.9	650.7
53.5°	748.7	751.9	747.5	736.2	718.7	697.3	677.0	659.3	645.9	640.5	639.7
54°	737.2	740.2	736.2	725.0	707.4	685.9	665.9	648.1	635.4	629.1	629.3
54.5°	725.4	728.9	724.3	713.3	696.4	674.5	654.3	637.0	624.3	618.3	618.3
55°	713.5	717.3	713.1	701.8	684.5	663.1	643.2	626.0	613.8	608.4	607.1
55.5°	702.2	705.5	701.2	690.5	673.5	652.2	632.2	614.8	602.7	597.2	596.2
56°	690.2	693.7	689.9	678.8	662.1	641.4	621.6	604.0	592.2	586.3	585.9
56.5°	678.6	682.2	678.2	667.4	650.9	630.0	610.3	593.5	581.7	575.8	575.4
57°	667.3	670.3	666.4	655.7	639.1	618.8	599.3	582.7	570.7	565.4	564.8
57.5°	655.2	659.1	654.3	644.4	628.2	607.9	588.5	571.9	560.5	554.8	554.1
58°	643.2	646.9	643.4	632.4	616.1	596.8	577.9	561.6	550.0	544.0	544.2
58.5°	631.8	635.2	631.3	621.3	605.2	585.5	566.8	550.7	539.6	533.9	533.6
59°	619.8	623.8	619.7	609.8	594.0	574.5	556.0	540.1	529.6	524.2	523.3
59.5°	608.1	611.5	608.0	598.3	582.7	563.5	545.5	530.2	519.4	514.4	512.6
60°	596.0	599.8	596.6	586.7	571.3	552.6	534.7	520.0	509.3	504.1	502.5
60.5°	584.3	587.7	584.7	575.3	560.7	541.8	524.7	510.0	499.0	493.8	492.4
61°	572.5	575.7	573.0	564.0	549.6	531.2	511.4	499.5	488.8	483.5	482.3
61.5°	560.8	564.6	561.0	551.8	538.0	520.2	500.7	489.0	478.5	473.1	472.2
62°	548.9	552.8	549.9	540.8	526.4	509.1	490.9	478.7	468.2	462.8	462.1
62.5°	537.0	540.6	538.3	529.7	515.7	498.4	481.1	468.3	458.0	452.8	452.0
63°	525.2	529.0	526.4	518.3	504.6	487.7	471.3	458.0	448.3	443.3	442.4
63.5°	513.5	516.9	514.7	506.3	493.4	477.0	461.6	448.1	438.7	433.7	433.0
64°	501.5	505.0	502.6	496.2	482.2	466.3	451.1	438.5	429.1	424.2	423.3
64.5°	489.3	493.0	490.9	492.4	471.4	455.7	441.2	428.6	419.5	414.5	413.5
65°	477.3	481.0	479.3	478.8	461.1	445.0	431.3	418.9	409.9	405.4	404.2
65.5°	465.2	469.0	467.6	465.2	450.0	434.5	421.0	409.2	400.5	395.7	394.6
66°	453.1	457.1	456.0	451.6	438.9	424.3	411.1	399.5	391.3	386.5	385.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	417.8	421.6	421.1	415.9	406.4	393.8	381.8	371.6	363.6	359.0	357.9
68°	406.3	410.0	409.5	404.8	395.7	383.7	372.1	362.2	354.7	350.2	349.0
68.5°	394.4	398.3	398.4	393.3	385.0	373.5	362.6	352.8	345.7	341.5	339.5
69°	382.5	386.6	386.9	382.9	374.6	363.4	353.1	343.8	336.4	332.5	331.0
69.5°	370.9	375.4	375.5	371.9	364.4	353.5	343.6	334.5	327.5	323.5	322.1
70°	359.1	363.6	364.2	361.1	353.9	343.8	334.2	325.3	318.8	314.6	313.3
70.5°	347.4	351.9	352.9	350.0	343.8	334.2	325.0	316.6	310.3	306.2	304.5
71°	335.9	340.1	341.7	339.4	333.3	324.3	315.7	307.7	301.7	297.7	296.1
71.5°	324.3	328.8	330.1	328.4	323.1	314.6	306.6	299.0	292.8	289.1	287.7
72°	312.9	317.3	319.2	317.5	312.9	305.0	297.3	290.2	284.3	280.5	279.0
72.5°	301.4	305.7	308.2	307.0	302.6	295.3	288.4	281.3	275.9	272.5	270.6
73°	289.7	294.4	297.3	296.7	292.8	285.8	279.3	272.8	267.6	264.1	262.1
73.5°	278.0	283.2	286.1	286.1	282.8	277.0	270.4	264.3	259.2	255.8	254.0
74°	266.9	271.6	275.2	275.8	272.9	267.5	261.7	255.8	251.2	247.7	245.8
74.5°	255.6	260.7	264.3	265.2	263.1	258.0	253.0	247.5	243.0	239.8	238.1
75°	244.4	249.5	253.5	254.8	253.4	249.0	244.3	239.3	235.0	231.8	229.9
75.5°	233.0	238.6	242.7	244.6	243.9	239.9	235.7	231.0	226.9	224.0	222.0
76°	222.0	227.4	232.1	234.7	234.0	230.8	227.3	223.0	219.1	216.3	214.1
76.5°	211.1	216.7	221.6	224.5	224.7	222.1	218.7	214.9	211.4	208.6	206.4
77°	200.2	205.7	211.2	214.5	215.4	213.4	210.6	206.8	203.6	200.8	198.7
77.5°	189.2	195.1	200.9	204.6	206.1	204.8	202.3	199.1	195.9	193.5	191.2
78°	178.8	184.6	190.5	195.1	196.9	196.3	194.3	191.4	188.7	186.2	183.9
78.5°	168.0	174.2	180.3	185.5	187.9	187.7	186.2	183.8	181.4	178.8	176.7
79°	157.5	163.9	170.5	176.0	179.0	179.3	178.4	176.3	174.0	171.6	169.4
79.5°	147.2	153.4	160.6	166.6	170.2	171.1	170.8	168.9	166.9	164.7	162.4
80°	137.5	143.5	150.8	157.5	161.6	163.0	163.0	161.7	159.9	157.9	155.5
80.5°	127.4	133.7	141.4	148.4	153.1	155.1	155.5	154.6	153.1	150.9	148.7
81°	117.6	124.1	132.1	139.5	144.8	147.4	148.3	147.6	146.3	144.3	142.1
81.5°	108.1	114.6	123.0	130.7	136.6	139.6	141.1	140.9	139.8	138.0	135.6
82°	98.7	105.2	113.9	122.3	128.5	132.2	134.1	134.2	133.4	131.5	129.2
82.5°	89.2	96.2	105.3	114.0	120.7	125.0	127.2	127.6	126.9	125.1	122.8
83°	80.8	87.5	96.7	105.9	113.0	117.9	120.5	121.2	120.7	119.3	116.8
83.5°	72.3	79.1	88.4	98.1	105.8	110.8	114.0	115.0	114.9	113.3	110.9
84°	64.2	70.9	80.4	90.3	98.5	104.1	107.6	109.0	108.8	107.5	105.2
84.5°	56.2	63.0	72.8	82.9	91.5	97.6	101.3	103.1	103.1	101.9	99.6
85°	48.9	55.4	65.3	75.8	84.9	91.3	95.3	97.3	97.6	96.4	94.1
85.5°	42.5	48.6	58.4	69.1	78.4	85.2	89.5	91.7	92.1	91.0	88.8
86°	36.1	42.4	51.6	62.6	72.3	79.4	84.0	86.4	86.9	85.9	83.6
86.5°	29.8	36.3	46.1	56.4	66.3	73.7	78.5	81.2	81.9	81.0	78.7
87°	23.4	30.1	40.7	50.2	60.7	68.2	73.3	76.3	77.0	76.3	74.0
87.5°	18.0	24.0	35.3	45.5	55.2	63.1	68.3	71.4	72.3	71.6	69.4
88°	13.0	18.9	29.9	40.7	49.9	58.1	63.6	66.7	67.8	67.1	64.9
88.5°	8.7	14.4	24.4	36.0	45.8	53.3	58.9	62.2	63.4	62.8	60.7



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	2.8	5.1	13.5	23.6	33.4	41.5	47.5	50.3	51.6	51.0	49.6
90.5°	1.5	4.1	10.9	20.4	29.8	37.9	43.9	47.1	48.5	48.0	46.4
91°	0.3	3.2	8.8	17.5	26.6	34.3	40.4	43.9	45.4	45.0	43.2
91.5°	0.2	2.3	7.1	15.1	23.6	31.1	36.9	40.7	42.2	41.9	40.1
92°	0.2	1.4	5.8	13.0	21.0	28.2	33.7	37.4	39.1	38.9	37.0
92.5°	0.1	1.1	5.1	11.2	18.7	25.6	30.9	34.4	36.0	35.9	34.2
93°	0.1	0.9	4.5	9.7	16.6	23.2	28.4	31.8	33.4	33.3	31.7
93.5°	0.2	0.7	3.9	8.5	14.8	21.0	26.0	29.3	30.9	30.8	29.4
94°	0.2	0.6	3.3	7.5	13.2	19.0	23.8	27.1	28.6	28.6	27.2
94.5°	0.3	0.5	3.0	6.7	11.9	17.2	21.8	24.9	26.5	26.5	25.2
95°	0.3	0.5	2.7	6.2	10.7	15.7	20.0	23.1	24.6	24.6	23.3
95.5°	0.4	0.5	2.4	5.7	9.8	14.3	18.4	21.3	22.8	22.9	21.7
96°	0.4	0.5	2.2	5.4	9.0	13.2	17.0	19.7	21.1	21.2	20.1
96.5°	0.5	0.6	2.0	5.0	8.4	12.2	15.7	18.3	19.7	19.8	18.8
97°	0.5	0.6	1.8	4.6	7.9	11.3	14.6	17.0	18.4	18.5	17.5
97.5°	0.6	0.6	1.6	4.3	7.5	10.6	13.6	15.9	17.2	17.3	16.5
98°	0.6	0.6	1.5	4.0	7.1	10.0	12.8	14.9	16.1	16.3	15.5
98.5°	0.7	0.7	1.3	3.7	6.7	9.6	12.1	14.1	15.2	15.4	14.7
99°	0.7	0.7	1.2	3.5	6.3	9.2	11.5	13.3	14.4	14.6	13.9
99.5°	0.8	0.8	1.1	3.3	6.0	8.7	11.0	12.7	13.7	13.9	13.3
100°	0.9	0.8	1.1	3.0	5.7	8.3	10.5	12.2	13.1	13.3	12.8
100.5°	1.0	0.9	1.1	2.8	5.4	7.9	10.1	11.7	12.6	12.8	12.3
101°	1.1	1.0	1.1	2.6	5.1	7.5	9.7	11.3	12.2	12.4	11.9
101.5°	1.2	1.0	1.1	2.4	4.8	7.2	9.3	10.8	11.7	11.9	11.5
102°	1.3	1.1	1.1	2.3	4.5	6.9	8.9	10.4	11.3	11.5	11.1
102.5°	1.3	1.1	1.1	2.1	4.3	6.5	8.5	10.0	10.9	11.1	10.7
103°	1.4	1.2	1.1	1.9	4.0	6.2	8.1	9.6	10.5	10.7	10.3
103.5°	1.5	1.2	1.0	1.8	3.7	5.9	7.8	9.2	10.1	10.3	9.9
104°	1.5	1.3	1.0	1.7	3.5	5.6	7.4	8.8	9.7	9.9	9.5
104.5°	1.5	1.3	1.0	1.6	3.3	5.3	7.1	8.5	9.3	9.5	9.1
105°	1.5	1.5	1.0	1.5	3.0	5.0	6.8	8.1	9.0	9.2	8.8
105.5°	1.5	1.7	1.0	1.4	2.9	4.8	6.5	7.8	8.6	8.9	8.5
106°	1.5	1.7	1.0	1.4	2.7	4.5	6.2	7.5	8.3	8.5	8.2
106.5°	1.5	1.5	1.0	1.3	2.5	4.2	5.9	7.1	8.0	8.2	7.8
107°	1.5	1.5	1.1	1.3	2.4	4.0	5.6	6.8	7.7	7.9	7.6
107.5°	1.5	1.5	1.1	1.3	2.2	3.8	5.3	6.5	7.4	7.6	7.3
108°	1.5	1.5	1.1	1.3	2.1	3.6	5.1	6.3	7.1	7.3	7.0
108.5°	1.5	1.5	1.1	1.2	2.0	3.4	4.8	6.0	6.8	7.0	6.7
109°	1.5	1.6	1.2	1.2	1.9	3.2	4.6	5.7	6.5	6.7	6.5
109.5°	1.6	1.6	1.2	1.1	1.8	3.0	4.3	5.5	6.3	6.5	6.2
110°	1.6	1.6	1.2	1.1	1.7	2.9	4.1	5.2	6.0	6.2	6.0
110.5°	1.6	1.6	1.2	1.1	1.7	2.7	3.9	5.0	5.8	6.0	5.7
111°	1.6	1.6	1.3	1.1	1.6	2.6	3.7	4.8	5.5	5.7	5.5



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1.6	1.6	1.4	1.2	1.5	2.2	3.2	4.1	4.8	5.0	4.8
113°	1.6	1.6	1.4	1.3	1.5	2.1	3.0	3.9	4.6	4.8	4.6
113.5°	1.6	1.6	1.5	1.3	1.5	2.0	2.8	3.7	4.4	4.6	4.4
114°	1.7	1.6	1.5	1.3	1.4	1.9	2.7	3.5	4.2	4.4	4.2
114.5°	1.7	1.6	1.5	1.3	1.4	1.9	2.6	3.4	4.0	4.2	4.0
115°	1.7	1.6	1.6	1.3	1.3	1.8	2.4	3.2	3.8	4.0	3.9
115.5°	1.7	1.7	1.6	1.4	1.3	1.8	2.3	3.0	3.6	3.8	3.7
116°	1.7	1.7	1.7	1.4	1.3	1.8	2.3	2.9	3.4	3.7	3.6
116.5°	1.7	1.7	1.8	1.4	1.4	1.7	2.2	2.8	3.3	3.5	3.4
117°	1.7	1.8	1.9	1.4	1.4	1.7	2.1	2.7	3.1	3.4	3.3
117.5°	1.7	1.8	2.0	1.5	1.4	1.7	2.1	2.6	3.0	3.2	3.2
118°	1.7	1.9	2.1	1.5	1.4	1.6	2.0	2.5	2.9	3.1	3.1
118.5°	1.7	1.9	2.1	1.5	1.4	1.5	2.0	2.4	2.8	3.0	3.0
119°	1.8	1.9	2.1	1.6	1.5	1.5	1.9	2.3	2.7	2.9	2.9
119.5°	1.8	1.9	2.0	1.6	1.5	1.5	1.9	2.3	2.6	2.8	2.8
120°	1.8	1.9	2.0	1.6	1.5	1.5	1.9	2.2	2.6	2.8	2.7
120.5°	1.8	2.0	2.0	1.7	1.5	1.5	1.8	2.1	2.5	2.7	2.7
121°	1.8	2.0	2.0	1.7	1.6	1.5	1.7	2.1	2.4	2.6	2.6
121.5°	1.9	2.0	2.0	1.7	1.6	1.6	1.7	2.0	2.3	2.5	2.6
122°	1.9	2.0	2.0	1.8	1.6	1.6	1.6	2.0	2.3	2.5	2.5
122.5°	1.9	2.0	2.1	1.8	1.7	1.6	1.6	1.9	2.2	2.4	2.5
123°	1.9	2.0	2.1	1.9	1.7	1.6	1.6	1.9	2.2	2.4	2.4
123.5°	1.9	2.0	2.1	1.9	1.7	1.7	1.6	1.8	2.2	2.4	2.4
124°	1.9	2.1	2.1	1.9	1.8	1.7	1.6	1.8	2.1	2.3	2.3
124.5°	2.0	2.1	2.2	2.0	1.8	1.7	1.7	1.7	2.0	2.2	2.3
125°	2.0	2.1	2.2	2.0	1.8	1.8	1.7	1.7	2.0	2.2	2.2
125.5°	2.0	2.1	2.2	2.1	1.9	1.8	1.7	1.7	2.0	2.2	2.2
126°	2.0	2.1	2.2	2.2	1.9	1.8	1.7	1.8	2.0	2.1	2.2
126.5°	2.0	2.1	2.2	2.3	1.9	1.8	1.8	1.8	2.0	2.1	2.2
127°	2.1	2.1	2.2	2.3	2.0	1.9	1.8	1.8	2.0	2.1	2.2
127.5°	2.1	2.1	2.2	2.4	2.0	1.9	1.8	1.9	2.0	2.2	2.3
128°	2.1	2.1	2.2	2.5	2.0	1.9	1.9	1.9	2.1	2.2	2.3
128.5°	2.1	2.1	2.2	2.5	2.1	1.9	1.9	2.0	2.1	2.2	2.3
129°	2.1	2.1	2.1	2.5	2.1	2.0	2.0	2.0	2.1	2.3	2.4
129.5°	2.1	2.1	2.1	2.5	2.2	2.0	2.0	2.1	2.2	2.3	2.4
130°	2.2	2.2	2.1	2.5	2.2	2.1	2.0	2.1	2.2	2.3	2.4
130.5°	2.2	2.2	2.1	2.5	2.2	2.1	2.1	2.2	2.3	2.4	2.5
131°	2.2	2.2	2.1	2.5	2.3	2.2	2.1	2.2	2.3	2.4	2.5
131.5°	2.2	2.2	2.2	2.6	2.3	2.2	2.2	2.3	2.3	2.5	2.5
132°	2.2	2.2	2.2	2.6	2.4	2.2	2.2	2.3	2.4	2.5	2.6
132.5°	2.2	2.2	2.2	2.6	2.5	2.3	2.3	2.3	2.4	2.5	2.6
133°	2.2	2.2	2.2	2.7	2.6	2.4	2.3	2.4	2.5	2.6	2.7
133.5°	2.2	2.3	2.2	2.7	2.7	2.4	2.4	2.4	2.5	2.6	2.7



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	2.3	2.3	2.3	2.8	2.9	2.6	2.6	2.6	2.6	2.7	2.8
135.5°	2.3	2.3	2.4	2.8	3.0	2.6	2.6	2.6	2.7	2.7	2.9
136°	2.2	2.3	2.4	2.8	3.0	2.7	2.7	2.7	2.7	2.8	2.9
136.5°	2.2	2.3	2.4	2.7	3.0	2.8	2.7	2.7	2.7	2.8	2.9
137°	2.2	2.3	2.4	2.7	3.0	2.8	2.8	2.8	2.8	2.9	3.0
137.5°	2.3	2.4	2.5	2.7	3.0	2.9	2.8	2.8	2.8	2.9	3.0
138°	2.3	2.4	2.5	2.7	3.0	3.0	2.9	2.9	2.9	2.9	3.1
138.5°	2.3	2.5	2.5	2.6	3.0	3.1	2.9	2.9	2.9	3.0	3.1
139°	2.3	2.5	2.5	2.6	3.0	3.2	2.9	2.9	2.9	3.0	3.2
139.5°	2.3	2.5	2.5	2.6	3.1	3.3	3.0	3.0	3.0	3.1	3.2
140°	2.3	2.6	2.6	2.6	3.1	3.3	3.0	3.0	3.0	3.1	3.3
140.5°	2.3	2.6	2.6	2.6	3.1	3.3	3.1	3.1	3.1	3.2	3.3
141°	2.3	2.6	2.6	2.6	3.2	3.4	3.2	3.1	3.1	3.2	3.4
141.5°	2.3	2.6	2.6	2.6	3.2	3.4	3.3	3.1	3.2	3.3	3.5
142°	2.3	2.6	2.6	2.5	3.1	3.4	3.4	3.2	3.2	3.3	3.5
142.5°	2.3	2.6	2.6	2.5	3.1	3.4	3.5	3.2	3.2	3.4	3.6
143°	2.3	2.7	2.6	2.5	3.1	3.4	3.6	3.3	3.3	3.4	3.6
143.5°	2.3	2.7	2.7	2.5	3.0	3.4	3.6	3.4	3.4	3.5	3.7
144°	2.3	2.7	2.7	2.5	3.0	3.4	3.6	3.5	3.4	3.6	3.8
144.5°	2.3	2.7	2.7	2.5	3.0	3.4	3.6	3.6	3.5	3.6	3.8
145°	2.3	2.7	2.7	2.5	3.0	3.4	3.6	3.7	3.5	3.6	3.9
145.5°	2.3	2.7	2.7	2.5	2.9	3.4	3.6	3.8	3.6	3.7	4.0
146°	2.3	2.7	2.7	2.5	2.9	3.4	3.6	3.8	3.8	3.8	4.1
146.5°	2.3	2.7	2.7	2.5	2.9	3.4	3.6	3.8	3.9	3.9	4.2
147°	2.3	2.7	2.7	2.5	2.8	3.4	3.5	3.8	4.0	4.1	4.3
147.5°	2.3	2.7	2.7	2.5	2.8	3.3	3.5	3.8	4.0	4.1	4.3
148°	2.3	2.7	2.7	2.5	2.8	3.3	3.5	3.8	4.0	4.1	4.3
148.5°	2.3	2.7	2.7	2.5	2.7	3.3	3.5	3.8	4.0	4.2	4.3
149°	2.2	2.7	2.7	2.5	2.7	3.3	3.5	3.8	4.0	4.1	4.3
149.5°	2.2	2.7	2.7	2.5	2.7	3.2	3.5	3.7	4.0	4.1	4.3
150°	2.2	2.6	2.7	2.5	2.7	3.2	3.5	3.7	4.0	4.1	4.3
150.5°	2.3	2.6	2.8	2.5	2.6	3.1	3.5	3.7	3.9	4.1	4.2
151°	2.1	2.6	2.8	2.6	2.6	3.1	3.5	3.7	3.9	4.0	4.2
151.5°	2.0	2.6	2.8	2.6	2.6	3.0	3.5	3.7	3.9	4.0	4.2
152°	2.0	2.5	2.8	2.6	2.6	3.0	3.4	3.7	3.9	4.0	4.2
152.5°	2.1	2.5	2.8	2.6	2.6	2.9	3.4	3.7	3.9	4.0	4.2
153°	2.0	2.5	2.8	2.6	2.6	2.9	3.3	3.6	3.8	4.0	4.1
153.5°	1.8	2.5	2.8	2.6	2.6	2.8	3.2	3.6	3.8	3.9	4.0
154°	1.7	2.4	2.8	2.7	2.6	2.8	3.2	3.5	3.7	3.9	3.9
154.5°	1.7	2.4	2.8	2.7	2.6	2.8	3.1	3.5	3.7	3.8	3.8
155°	1.7	2.4	2.8	2.7	2.6	2.8	3.0	3.4	3.6	3.7	3.8
155.5°	1.7	2.4	2.8	2.7	2.7	2.7	3.0	3.3	3.5	3.6	3.7
156°	1.6	2.4	2.8	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
157.5°	1.5	2.4	2.8	2.8	2.8	2.8	2.8	3.0	3.2	3.3	3.4
158°	1.5	2.4	2.8	2.8	2.8	2.8	2.8	3.0	3.2	3.3	3.3
158.5°	1.5	2.4	2.8	2.8	2.8	2.8	2.8	2.9	3.1	3.2	3.2
159°	1.5	2.3	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.1	3.2
159.5°	1.5	2.3	2.7	2.8	2.9	2.8	2.8	2.9	3.0	3.1	3.1
160°	1.5	2.3	2.7	2.8	2.9	2.9	2.8	2.9	2.9	3.0	3.1
160.5°	1.5	2.3	2.7	2.8	2.9	2.9	2.9	2.9	2.9	3.0	3.0
161°	1.5	2.3	2.7	2.8	2.9	2.9	2.9	2.9	2.9	3.0	3.0
161.5°	1.6	2.3	2.7	2.8	2.9	3.0	2.9	2.9	2.9	2.9	3.0
162°	1.6	2.2	2.7	2.8	2.9	3.0	2.9	2.9	2.9	2.9	3.0
162.5°	1.6	2.2	2.7	2.8	3.0	3.0	3.0	2.9	2.9	2.9	3.0
163°	1.6	2.1	2.6	2.8	3.0	3.0	3.0	3.0	2.9	3.0	3.0
163.5°	1.6	2.1	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0
164°	1.6	2.0	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0
164.5°	1.6	1.9	2.6	2.8	3.0	3.1	3.0	3.0	3.0	3.0	3.0
165°	1.6	1.9	2.6	2.8	3.0	3.1	3.1	3.0	3.0	3.0	3.1
165.5°	1.6	1.9	2.6	2.8	3.0	3.1	3.1	3.1	3.1	3.0	3.1
166°	1.6	1.9	2.6	2.7	3.0	3.1	3.1	3.1	3.1	3.1	3.1
166.5°	1.6	2.0	2.7	2.7	3.0	3.1	3.1	3.1	3.1	3.1	3.1
167°	1.7	2.0	2.6	2.7	3.0	3.1	3.1	3.1	3.1	3.1	3.2
167.5°	1.7	2.0	2.4	2.7	2.9	3.1	3.2	3.2	3.2	3.1	3.2
168°	1.7	2.0	2.5	2.5	2.9	3.1	3.2	3.2	3.2	3.2	3.2
168.5°	1.7	1.9	2.6	2.5	3.0	3.1	3.2	3.2	3.2	3.2	3.2
169°	1.7	1.8	2.4	2.6	2.9	3.1	3.2	3.2	3.2	3.2	3.2
169.5°	1.8	2.0	2.1	2.7	2.6	3.0	3.2	3.2	3.2	3.2	3.2
170°	1.8	2.1	2.2	2.6	2.7	2.9	3.1	3.2	3.2	3.2	3.2
170.5°	2.0	2.1	2.4	2.5	2.9	3.0	3.1	3.2	3.2	3.2	3.2
171°	2.3	2.1	2.5	2.5	2.8	2.9	3.1	3.2	3.2	3.2	3.2
171.5°	2.3	2.4	2.3	2.5	2.5	2.6	3.0	3.2	3.2	3.2	3.2
172°	2.3	2.4	2.4	2.5	2.5	2.5	3.0	3.1	3.2	3.2	3.2
172.5°	2.5	2.4	2.5	2.4	2.6	2.8	2.9	3.1	3.1	3.1	3.1
173°	2.5	2.5	2.5	2.5	2.5	2.8	2.9	3.0	3.1	3.1	3.1
173.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.9	3.0	3.0	3.0	3.0
174°	2.5	2.5	2.6	2.4	2.6	2.7	2.8	2.9	3.0	3.0	3.0
174.5°	2.6	2.6	2.7	2.5	2.4	2.6	2.6	2.8	3.0	3.0	3.0
175°	2.7	2.7	2.7	2.6	2.4	2.5	2.7	2.9	3.0	2.9	3.0
175.5°	2.7	2.7	2.7	2.6	2.5	2.5	2.7	2.9	3.0	2.9	2.9
176°	2.7	2.7	2.7	2.6	2.4	2.3	2.5	2.8	3.0	2.9	2.9
176.5°	2.7	2.7	2.8	2.7	2.5	2.4	2.5	2.7	2.9	2.9	2.9
177°	2.7	2.7	2.8	2.8	2.6	2.4	2.5	2.7	2.8	2.8	2.8
177.5°	2.7	2.8	2.8	2.7	2.5	2.4	2.5	2.6	2.8	2.8	2.8
178°	2.7	2.7	2.7	2.6	2.5	2.4	2.4	2.5	2.7	2.8	2.7
178.5°	2.8	2.8	2.7	2.6	2.4	2.2	2.2	2.4	2.6	2.8	2.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5
0.5°	1457.8	1457.7	1457.6	1457.5	1457.3	1457.2	1457.0	1456.9	1456.9	1456.9	1456.9
1°	1457.8	1458.0	1458.1	1458.3	1458.1	1457.8	1457.4	1457.1	1456.7	1456.6	1456.5
1.5°	1458.2	1458.1	1457.7	1457.0	1456.5	1456.5	1456.5	1456.3	1456.0	1455.8	1455.7
2°	1458.1	1457.0	1455.8	1455.8	1455.8	1455.2	1455.1	1455.1	1454.8	1454.7	1454.7
2.5°	1457.0	1456.8	1457.0	1456.1	1456.0	1455.6	1454.8	1454.6	1454.3	1454.2	1453.8
3°	1456.4	1456.1	1455.8	1455.1	1455.1	1454.8	1454.5	1454.0	1452.9	1451.9	1452.2
3.5°	1455.2	1454.9	1454.9	1454.9	1454.3	1453.2	1453.0	1453.2	1451.4	1450.8	1450.6
4°	1454.9	1454.3	1453.7	1453.7	1453.5	1452.8	1451.7	1452.0	1451.1	1449.8	1448.9
4.5°	1452.3	1453.1	1451.7	1452.6	1452.6	1451.6	1450.4	1449.7	1449.2	1448.2	1447.5
5°	1451.7	1451.6	1451.4	1450.6	1451.0	1450.4	1449.4	1448.5	1448.0	1447.1	1445.2
5.5°	1450.8	1450.2	1449.9	1449.1	1449.5	1448.4	1448.2	1447.2	1446.6	1445.5	1443.5
6°	1449.2	1448.5	1447.8	1447.5	1447.3	1446.8	1446.5	1445.4	1444.5	1443.8	1441.2
6.5°	1447.1	1446.6	1446.2	1445.7	1445.2	1445.8	1444.9	1443.5	1441.9	1441.8	1439.2
7°	1445.3	1444.4	1444.8	1443.9	1443.6	1443.7	1443.1	1441.2	1439.7	1439.0	1437.3
7.5°	1442.9	1442.3	1442.4	1442.4	1441.3	1441.4	1440.5	1439.6	1437.3	1436.9	1435.3
8°	1440.6	1440.3	1439.9	1440.0	1439.5	1439.6	1437.7	1436.7	1435.1	1434.6	1432.2
8.5°	1437.7	1437.7	1437.3	1437.1	1437.4	1436.6	1436.4	1434.5	1433.5	1431.7	1429.7
9°	1434.8	1435.1	1434.7	1434.7	1435.1	1433.9	1433.5	1432.5	1430.2	1428.8	1426.9
9.5°	1432.4	1432.5	1431.7	1431.8	1431.9	1431.7	1430.3	1429.2	1426.9	1425.7	1423.4
10°	1429.2	1429.3	1428.7	1429.5	1429.1	1427.8	1427.9	1426.5	1424.2	1422.8	1420.2
10.5°	1425.9	1426.3	1425.0	1426.5	1426.0	1425.3	1425.3	1423.7	1421.7	1419.1	1417.2
11°	1422.0	1423.2	1422.6	1423.7	1423.2	1422.7	1422.3	1420.7	1418.2	1415.5	1413.4
11.5°	1418.3	1419.6	1418.8	1419.9	1419.8	1419.9	1418.8	1416.9	1414.3	1412.4	1409.5
12°	1414.7	1415.5	1415.2	1415.9	1416.8	1416.0	1415.3	1413.6	1411.3	1409.2	1405.8
12.5°	1410.9	1411.9	1411.8	1412.1	1413.3	1412.4	1411.7	1410.2	1408.1	1404.8	1402.4
13°	1406.9	1407.9	1407.4	1407.9	1409.0	1408.6	1408.4	1406.7	1404.7	1400.9	1398.5
13.5°	1402.3	1402.9	1403.0	1404.3	1405.0	1404.7	1404.5	1402.9	1400.1	1396.7	1393.5
14°	1397.5	1398.6	1399.3	1400.4	1401.1	1400.9	1400.6	1399.4	1395.9	1392.6	1389.1
14.5°	1392.7	1393.9	1394.8	1395.9	1397.1	1397.0	1396.5	1395.0	1392.4	1388.1	1384.5
15°	1387.8	1389.7	1390.1	1391.5	1393.2	1392.5	1392.5	1390.4	1388.2	1383.1	1379.9
15.5°	1382.7	1385.2	1385.8	1387.2	1388.9	1387.8	1388.4	1386.0	1383.3	1378.8	1375.2
16°	1377.3	1379.7	1380.8	1382.2	1383.9	1383.7	1383.7	1381.9	1378.6	1374.7	1370.6
16.5°	1372.1	1374.6	1375.7	1377.2	1378.8	1379.2	1378.8	1377.6	1374.4	1369.9	1365.2
17°	1366.5	1368.9	1370.2	1372.0	1374.2	1374.2	1374.1	1372.9	1369.4	1364.6	1359.5
17.5°	1360.7	1363.6	1365.1	1366.8	1369.6	1369.6	1370.1	1367.8	1364.3	1359.6	1354.3
18°	1355.1	1357.3	1359.8	1362.2	1364.2	1364.2	1364.6	1362.4	1358.9	1354.4	1348.6
18.5°	1348.9	1350.9	1354.4	1356.5	1358.9	1358.7	1358.8	1357.5	1353.7	1348.4	1342.5
19°	1342.3	1344.8	1348.1	1350.3	1353.5	1353.8	1353.8	1352.3	1348.8	1342.8	1337.1
19.5°	1335.8	1338.6	1341.9	1344.9	1347.6	1348.0	1348.4	1346.7	1343.1	1337.2	1330.9
20°	1330.0	1332.9	1336.0	1339.1	1341.7	1342.8	1342.8	1341.3	1337.5	1331.4	1324.8
20.5°	1323.2	1326.2	1330.0	1332.5	1336.2	1336.8	1336.9	1335.8	1331.8	1325.5	1318.5
21°	1316.1	1320.1	1323.1	1326.3	1329.8	1331.3	1331.3	1329.7	1325.8	1319.1	1312.3



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1294.5	1298.1	1302.7	1307.4	1311.0	1313.0	1312.9	1310.9	1307.0	1299.6	1292.7
23°	1286.9	1290.9	1295.9	1300.4	1304.4	1306.3	1306.4	1304.4	1300.7	1293.5	1285.2
23.5°	1279.3	1283.5	1288.5	1292.9	1298.0	1300.1	1300.3	1298.3	1293.9	1287.1	1278.4
24°	1271.2	1276.3	1280.9	1286.1	1290.8	1293.2	1293.5	1291.8	1287.5	1280.1	1271.3
24.5°	1263.2	1268.2	1273.6	1278.7	1283.7	1286.4	1287.2	1285.1	1280.6	1273.0	1264.0
25°	1255.5	1260.2	1266.2	1271.4	1276.5	1279.6	1280.6	1278.3	1273.6	1265.5	1256.4
25.5°	1247.2	1252.5	1258.2	1263.7	1269.1	1272.4	1273.2	1271.1	1266.5	1258.4	1249.2
26°	1238.8	1244.4	1250.4	1255.8	1261.9	1265.0	1265.7	1264.5	1259.5	1250.9	1241.3
26.5°	1230.4	1235.7	1242.1	1248.1	1254.7	1258.1	1258.7	1257.1	1251.8	1243.6	1233.6
27°	1221.4	1227.5	1233.9	1240.4	1246.5	1250.4	1251.3	1249.3	1244.6	1235.9	1225.7
27.5°	1212.8	1218.6	1225.7	1232.2	1239.2	1242.6	1243.6	1241.9	1237.0	1228.3	1217.5
28°	1203.6	1210.2	1216.7	1224.4	1231.0	1234.6	1235.8	1234.4	1229.2	1220.4	1209.2
28.5°	1194.6	1201.0	1208.5	1216.1	1222.6	1227.0	1228.2	1226.9	1221.4	1212.3	1201.4
29°	1185.3	1192.1	1200.0	1207.0	1215.0	1219.5	1220.6	1218.8	1213.5	1204.3	1192.8
29.5°	1175.5	1182.4	1190.9	1198.5	1206.5	1210.7	1213.0	1210.9	1205.1	1196.0	1184.0
30°	1166.5	1173.7	1182.1	1190.2	1198.0	1203.4	1204.2	1202.7	1196.8	1187.6	1175.6
30.5°	1156.9	1163.5	1172.9	1181.8	1189.4	1194.7	1195.7	1194.1	1189.3	1179.1	1166.8
31°	1146.4	1154.7	1163.9	1172.4	1181.0	1185.8	1187.9	1186.5	1180.6	1170.2	1158.1
31.5°	1136.4	1145.0	1154.5	1163.1	1172.5	1177.6	1179.3	1177.6	1171.6	1162.1	1149.2
32°	1126.6	1135.0	1144.8	1154.4	1163.1	1168.7	1170.3	1169.2	1163.6	1153.1	1140.1
32.5°	1116.5	1125.5	1135.6	1145.0	1153.9	1160.1	1161.9	1160.8	1154.5	1144.3	1131.1
33°	1106.3	1115.2	1126.0	1135.7	1145.6	1150.9	1153.4	1151.6	1145.9	1135.4	1121.4
33.5°	1095.9	1105.2	1116.0	1126.5	1136.0	1142.1	1144.0	1143.1	1136.9	1126.0	1112.1
34°	1085.5	1095.0	1106.1	1116.8	1126.1	1133.0	1135.1	1134.5	1127.9	1116.9	1102.8
34.5°	1075.4	1084.7	1096.1	1107.0	1117.0	1124.1	1126.2	1125.1	1118.4	1108.0	1094.4
35°	1064.6	1073.9	1086.0	1096.9	1107.8	1114.5	1117.2	1115.8	1109.5	1098.6	1085.2
35.5°	1053.3	1064.0	1075.7	1087.1	1098.1	1104.5	1107.7	1106.5	1100.3	1089.7	1074.9
36°	1042.5	1053.2	1065.5	1077.6	1087.9	1095.6	1098.3	1097.6	1091.1	1079.7	1064.7
36.5°	1031.7	1042.2	1055.3	1067.7	1078.4	1086.2	1089.0	1088.3	1081.2	1069.7	1054.5
37°	1020.8	1031.8	1044.7	1056.7	1069.0	1076.7	1079.3	1078.4	1071.4	1059.8	1044.3
37.5°	1010.0	1020.7	1034.2	1047.0	1058.7	1066.8	1069.5	1068.5	1061.6	1049.8	1034.1
38°	998.8	1010.2	1023.9	1037.0	1048.9	1056.6	1059.7	1058.6	1051.7	1039.9	1024.0
38.5°	988.0	998.8	1013.4	1026.3	1037.9	1046.4	1049.9	1048.8	1041.9	1029.8	1013.5
39°	976.7	988.2	1002.4	1015.6	1028.0	1036.2	1039.7	1038.7	1031.7	1019.7	1003.5
39.5°	965.8	977.1	991.5	1005.1	1017.7	1026.1	1029.4	1028.3	1021.4	1009.7	992.7
40°	954.1	965.7	980.5	994.5	1007.3	1016.1	1019.5	1018.2	1011.4	999.3	982.5
40.5°	942.4	954.7	969.1	984.2	996.5	1005.8	1009.1	1007.7	1001.1	989.1	972.0
41°	930.9	943.1	958.4	973.0	986.3	994.9	998.5	997.6	990.8	978.9	961.5
41.5°	920.0	932.0	947.4	962.0	975.2	984.5	988.3	987.2	980.6	967.9	950.4
42°	908.7	921.3	936.3	951.2	964.6	973.8	977.3	977.2	969.7	956.8	939.7
42.5°	897.4	909.8	925.3	940.3	953.6	963.1	967.0	966.3	959.4	946.6	928.6
43°	885.9	897.7	913.8	929.3	942.9	953.1	956.3	955.6	948.5	936.0	918.8
43.5°	874.0	886.9	902.8	918.3	932.3	941.8	945.6	944.9	937.6	925.1	907.5



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	839.9	852.6	868.9	884.7	899.6	909.1	912.8	912.4	905.4	892.1	874.3
45.5°	827.9	840.8	857.5	873.6	887.8	897.5	902.1	901.5	893.9	881.0	863.1
46°	816.4	829.1	846.1	862.1	876.5	887.0	890.7	890.3	882.6	870.2	852.0
46.5°	804.7	818.1	834.2	850.7	865.0	875.4	879.5	878.9	871.7	859.0	841.0
47°	793.4	806.1	822.8	839.6	854.3	864.7	868.6	867.8	860.4	847.7	829.6
47.5°	781.8	795.4	811.4	828.0	843.0	853.5	856.7	856.6	849.4	836.4	818.3
48°	770.3	783.1	799.9	816.5	831.6	842.1	845.6	845.0	838.1	825.3	807.1
48.5°	759.0	771.9	789.0	805.4	819.6	830.2	834.1	833.9	826.7	813.9	795.4
49°	747.3	760.6	777.6	793.8	808.9	819.0	822.9	822.7	815.7	802.4	784.4
49.5°	736.2	749.3	766.0	782.2	796.9	808.1	811.9	811.1	804.0	791.0	773.3
50°	724.9	737.3	754.4	770.4	786.1	796.5	800.5	799.8	792.6	779.8	761.7
50.5°	713.5	726.1	742.9	759.4	774.4	785.0	788.9	788.2	781.4	768.2	750.0
51°	701.9	714.8	731.5	748.2	763.1	773.3	777.1	776.6	769.3	756.6	738.7
51.5°	691.0	704.0	720.0	736.6	751.2	762.2	765.5	765.1	758.1	745.5	727.2
52°	679.7	692.1	708.7	724.8	739.9	749.8	754.2	753.6	746.5	733.5	715.7
52.5°	668.7	681.0	697.3	713.5	728.2	738.6	742.8	743.1	734.8	721.8	704.3
53°	657.6	669.8	685.8	702.2	717.0	726.9	731.8	731.4	723.1	710.4	693.0
53.5°	646.5	658.9	674.7	690.6	705.4	715.6	721.3	718.5	711.6	699.1	681.4
54°	635.4	646.8	663.6	679.0	693.9	703.7	708.9	706.7	699.6	687.3	670.2
54.5°	624.6	636.2	652.0	667.7	681.9	692.5	696.0	695.1	688.1	675.9	658.8
55°	613.3	625.3	640.8	656.4	670.6	680.6	684.2	683.2	676.3	664.3	647.2
55.5°	602.3	614.4	629.9	645.0	658.8	669.0	672.2	671.2	664.4	652.5	635.5
56°	591.5	603.1	618.6	633.4	647.3	656.8	660.4	660.8	653.0	640.8	624.2
56.5°	580.8	592.2	607.3	622.1	635.8	645.2	649.4	649.0	641.5	629.2	612.8
57°	570.4	581.3	595.8	610.9	624.2	633.6	639.0	635.7	629.9	617.7	601.4
57.5°	559.6	570.7	584.7	600.0	612.7	622.1	626.6	624.2	617.3	605.9	590.0
58°	548.9	559.8	574.1	588.5	600.9	610.4	613.0	612.4	605.7	594.3	578.5
58.5°	538.5	548.9	562.8	576.7	589.3	598.4	601.4	600.8	593.8	583.1	567.0
59°	528.2	538.2	551.5	565.2	578.1	586.7	589.8	589.1	582.4	571.1	555.5
59.5°	517.6	527.8	540.7	554.1	566.7	575.7	579.0	576.4	570.3	559.4	544.5
60°	507.5	517.3	529.8	543.2	556.0	564.1	566.7	564.7	558.6	547.9	532.7
60.5°	497.2	506.7	519.2	532.0	544.8	551.7	553.7	553.0	546.4	536.2	521.5
61°	487.0	496.2	508.7	521.0	532.5	539.4	541.6	541.3	534.8	524.4	510.3
61.5°	476.7	485.6	497.8	510.4	520.6	528.1	530.3	529.0	522.6	512.6	498.7
62°	466.5	475.0	487.0	499.1	512.6	517.7	519.3	517.3	510.8	501.3	487.4
62.5°	456.2	464.4	476.0	488.2	500.4	513.9	504.1	505.1	499.2	489.7	476.0
63°	446.0	454.2	465.0	476.7	489.2	499.6	492.4	493.6	487.6	478.1	465.3
63.5°	436.4	444.1	454.3	465.2	476.5	485.8	481.0	481.5	475.3	466.7	454.0
64°	426.7	434.1	443.7	453.8	463.8	472.0	469.6	469.3	463.8	455.2	442.8
64.5°	416.9	423.8	433.3	443.0	452.1	458.2	458.1	457.5	452.0	443.5	431.5
65°	407.3	414.0	423.2	432.3	440.5	445.9	446.3	445.9	440.5	431.9	420.7
65.5°	397.7	404.2	412.7	421.4	429.2	434.0	435.1	433.9	428.6	420.6	409.5
66°	388.0	394.4	402.2	410.8	418.0	423.5	423.4	422.0	417.0	409.2	398.3



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	360.3	365.2	372.4	379.1	384.9	388.1	387.7	386.7	382.0	375.1	365.7
68°	350.9	355.7	362.3	368.5	373.7	376.9	375.9	375.1	370.4	363.6	354.5
68.5°	341.8	346.2	352.1	358.0	362.7	365.4	364.7	363.3	358.5	352.2	343.9
69°	332.6	336.5	342.3	347.4	351.7	354.0	353.0	351.5	346.9	341.2	333.1
69.5°	323.4	327.0	332.4	337.2	341.1	343.0	341.5	339.6	335.5	330.1	322.7
70°	314.2	317.9	322.7	327.1	330.3	331.4	329.6	328.2	324.1	318.9	311.9
70.5°	305.6	308.7	313.2	316.8	319.5	320.0	318.2	316.6	312.3	308.0	301.2
71°	296.9	299.7	303.5	306.8	308.8	309.0	306.5	305.2	301.3	296.6	290.5
71.5°	288.0	290.7	293.9	296.5	298.2	297.8	295.2	293.6	289.8	285.7	280.2
72°	279.3	281.6	284.4	286.6	287.6	286.8	283.9	282.2	278.4	274.7	269.9
72.5°	270.8	272.4	275.0	276.6	277.4	275.9	272.6	270.6	267.1	264.0	259.6
73°	262.1	263.5	265.6	266.8	267.0	264.9	261.3	259.3	255.9	253.1	249.1
73.5°	253.7	254.7	256.4	257.1	256.7	254.2	250.2	248.1	244.9	242.4	239.1
74°	245.6	246.1	247.4	247.6	246.4	243.4	239.1	236.9	234.1	231.7	228.9
74.5°	237.2	237.6	238.3	237.9	236.2	232.8	228.0	225.5	223.0	221.0	219.2
75°	228.9	229.0	229.2	228.1	226.0	222.2	217.1	214.6	212.3	210.7	209.3
75.5°	220.9	220.6	220.3	218.8	216.1	211.7	206.4	203.7	201.3	200.5	199.7
76°	213.0	212.3	211.5	209.5	206.3	201.3	195.6	192.9	190.8	190.3	189.8
76.5°	205.1	204.0	202.8	200.1	196.6	191.1	184.8	182.0	180.3	180.3	180.5
77°	197.2	195.8	194.4	191.5	186.9	180.9	174.6	171.5	169.9	170.2	171.1
77.5°	189.5	187.9	185.9	182.4	177.3	170.9	164.1	161.1	159.5	160.6	162.0
78°	182.0	180.0	177.5	173.5	168.0	161.1	154.0	150.7	149.5	150.8	152.6
78.5°	174.5	172.2	169.4	164.9	158.9	151.4	144.0	140.6	139.6	141.3	144.0
79°	167.2	164.7	161.3	156.3	149.9	141.9	134.2	131.0	130.2	132.5	135.7
79.5°	160.0	157.1	153.3	147.7	141.0	132.5	124.3	121.5	120.8	123.8	127.4
80°	152.9	149.8	145.6	139.6	132.2	123.2	114.9	111.9	111.4	115.0	119.2
80.5°	145.9	142.5	138.0	131.3	123.6	114.4	105.7	102.3	102.1	106.2	110.9
81°	139.3	135.5	130.5	123.6	115.3	105.7	96.8	93.1	93.2	97.4	102.7
81.5°	132.6	128.6	123.2	115.9	107.3	97.2	87.9	83.9	84.8	89.1	94.9
82°	125.9	121.7	116.2	108.6	99.2	88.9	79.4	75.3	76.2	81.0	87.4
82.5°	119.5	115.2	109.3	101.1	91.6	80.9	71.3	67.3	68.1	73.5	80.2
83°	113.4	108.8	102.6	94.2	84.2	73.2	63.4	59.3	60.5	66.2	73.3
83.5°	107.4	102.7	96.1	87.4	77.1	65.9	56.0	51.8	53.4	59.1	66.7
84°	101.5	96.6	89.9	80.8	70.2	58.8	48.9	44.5	46.2	52.3	60.4
84.5°	95.9	90.7	83.7	74.3	63.7	52.1	42.8	37.8	39.6	46.0	54.4
85°	90.3	85.1	77.8	68.5	57.4	46.6	36.7	31.4	33.3	40.1	48.8
85.5°	84.9	79.6	72.2	62.7	51.6	41.1	30.7	25.5	27.6	34.6	43.5
86°	79.8	74.4	66.9	57.3	46.9	35.7	24.7	21.2	22.4	29.6	38.6
86.5°	74.9	69.4	61.7	52.2	42.1	30.2	19.5	16.8	18.9	25.0	34.0
87°	70.1	64.5	56.8	47.9	37.3	24.8	15.1	12.6	15.4	21.0	29.8
87.5°	65.4	59.8	52.3	43.7	32.6	20.6	11.3	8.3	11.9	18.3	25.9
88°	61.0	55.4	48.3	39.5	27.9	16.9	8.1	4.0	8.4	15.7	22.5
88.5°	56.8	51.0	44.5	35.2	24.1	13.8	5.6	1.8	5.1	13.0	19.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	46.1	40.7	33.3	24.6	15.4	7.2	2.5	0.6	2.2	6.5	13.7
90.5°	42.8	37.3	30.2	21.8	13.1	5.8	1.5	0.4	1.8	5.6	12.1
91°	39.5	34.2	27.3	19.3	11.3	5.1	1.1	0.3	1.6	4.9	10.5
91.5°	36.4	31.3	24.7	17.1	9.7	4.5	0.9	0.2	1.4	4.4	8.9
92°	33.6	28.6	22.3	15.3	8.5	3.8	0.7	0.2	1.3	4.1	8.1
92.5°	31.0	26.2	20.2	13.6	7.5	3.2	0.6	0.3	1.2	3.8	7.5
93°	28.6	24.0	18.3	12.2	6.7	2.9	0.5	0.3	1.1	3.6	7.1
93.5°	26.4	22.1	16.6	10.9	6.1	2.6	0.5	0.4	1.0	3.4	6.7
94°	24.4	20.2	15.1	9.9	5.6	2.4	0.5	0.4	1.0	3.3	6.4
94.5°	22.5	18.6	13.8	9.1	5.3	2.2	0.5	0.5	1.0	3.3	6.1
95°	20.8	17.1	12.7	8.5	5.0	2.0	0.5	0.5	1.0	3.2	5.9
95.5°	19.2	15.8	11.8	8.0	4.7	1.8	0.6	0.6	1.0	3.2	5.7
96°	17.8	14.6	11.0	7.5	4.3	1.7	0.7	0.7	1.0	3.1	5.6
96.5°	16.6	13.7	10.4	7.1	4.1	1.6	0.8	0.8	1.0	3.0	5.5
97°	15.5	12.8	9.8	6.8	3.9	1.5	0.8	0.9	1.0	2.9	5.4
97.5°	14.6	12.1	9.3	6.5	3.6	1.4	0.9	0.9	1.0	2.7	5.3
98°	13.8	11.5	8.9	6.2	3.4	1.3	1.0	1.0	1.0	2.7	5.2
98.5°	13.1	11.0	8.6	5.9	3.3	1.3	1.0	1.1	1.1	2.6	5.2
99°	12.5	10.6	8.2	5.6	3.1	1.3	1.1	1.2	1.1	2.6	5.1
99.5°	12.0	10.2	7.9	5.3	2.9	1.2	1.2	1.4	1.2	2.6	5.0
100°	11.6	9.8	7.5	5.0	2.8	1.2	1.3	1.5	1.3	2.6	4.8
100.5°	11.1	9.4	7.2	4.8	2.6	1.2	1.3	1.6	1.4	2.6	4.7
101°	10.7	9.0	6.9	4.5	2.5	1.2	1.4	1.7	1.5	2.5	4.6
101.5°	10.3	8.7	6.6	4.3	2.3	1.2	1.4	1.8	1.6	2.4	4.5
102°	9.9	8.3	6.3	4.1	2.2	1.2	1.5	1.9	1.6	2.4	4.4
102.5°	9.6	8.0	6.0	3.9	2.0	1.2	1.6	1.9	1.7	2.3	4.3
103°	9.2	7.7	5.8	3.7	1.9	1.3	1.7	1.9	1.8	2.2	4.2
103.5°	8.9	7.4	5.5	3.5	1.9	1.4	1.8	2.0	1.9	2.1	4.1
104°	8.5	7.1	5.3	3.3	1.8	1.5	1.8	2.0	1.9	2.1	4.1
104.5°	8.2	6.8	5.1	3.2	1.8	1.6	1.9	2.1	2.0	2.1	4.0
105°	7.9	6.5	4.8	3.0	1.8	1.7	2.1	2.2	2.1	2.1	3.8
105.5°	7.6	6.2	4.6	2.9	1.8	1.7	2.4	2.2	2.1	2.1	3.7
106°	7.3	6.0	4.4	2.7	1.8	1.7	2.7	2.3	2.2	2.0	3.6
106.5°	7.0	5.8	4.2	2.6	1.7	1.8	2.9	2.4	2.4	2.0	3.4
107°	6.7	5.5	4.0	2.5	1.7	1.8	3.2	2.4	2.7	1.9	3.3
107.5°	6.4	5.3	3.8	2.4	1.7	1.8	3.2	2.5	2.9	1.9	3.2
108°	6.2	5.0	3.6	2.3	1.7	1.9	3.2	2.5	2.9	1.9	3.1
108.5°	5.9	4.8	3.5	2.3	1.8	1.9	3.1	2.5	2.8	2.0	3.0
109°	5.7	4.6	3.3	2.2	1.9	2.0	3.0	2.6	2.8	2.1	2.9
109.5°	5.5	4.4	3.2	2.1	1.9	2.1	3.0	2.6	2.9	2.1	2.9
110°	5.2	4.2	3.0	2.1	1.9	2.1	3.0	2.6	2.9	2.2	2.8
110.5°	5.0	4.0	2.9	2.0	2.0	2.2	3.0	2.7	3.0	2.2	2.8
111°	4.8	3.8	2.8	2.0	2.0	2.3	3.0	2.7	3.0	2.3	2.7



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	3.0	3.4	4.0	4.8	4.7	3.7	3.3	3.1	3.9	4.1	3.7
135.5°	3.1	3.5	4.0	4.9	4.6	3.7	3.3	3.1	3.9	4.1	3.7
136°	3.1	3.5	4.1	4.9	4.6	3.7	3.4	3.1	3.9	4.1	3.7
136.5°	3.2	3.6	4.1	4.9	4.5	3.7	3.4	3.1	3.9	4.1	3.8
137°	3.2	3.6	4.2	4.9	4.5	3.7	3.4	3.1	3.8	4.1	3.8
137.5°	3.3	3.7	4.3	5.0	4.4	3.7	3.4	3.1	3.8	4.1	3.8
138°	3.4	3.8	4.4	5.0	4.4	3.7	3.4	3.1	3.8	4.0	3.8
138.5°	3.4	3.8	4.5	5.0	4.3	3.7	3.4	3.1	3.6	4.0	3.8
139°	3.5	3.9	4.6	5.0	4.2	3.7	3.4	3.1	3.6	4.0	3.8
139.5°	3.5	4.0	4.6	5.0	4.2	3.7	3.5	3.1	3.6	4.0	3.8
140°	3.6	4.0	4.7	5.0	4.1	3.7	3.5	3.1	3.7	4.1	3.8
140.5°	3.6	4.0	4.7	4.9	4.1	3.7	3.5	3.0	3.7	4.1	3.8
141°	3.7	4.1	4.8	4.9	4.0	3.8	3.4	3.0	3.7	4.1	3.8
141.5°	3.8	4.2	4.8	4.8	4.0	3.8	3.4	3.0	3.7	4.2	3.8
142°	3.8	4.3	4.9	4.7	3.9	3.8	3.5	3.0	3.7	4.2	3.8
142.5°	3.8	4.4	4.9	4.7	3.9	3.8	3.5	2.9	3.6	4.2	3.8
143°	3.9	4.5	4.9	4.6	3.8	3.8	3.4	2.9	3.6	4.1	3.7
143.5°	4.0	4.6	4.9	4.5	3.8	3.8	3.4	2.9	3.6	4.0	3.7
144°	4.1	4.6	4.9	4.5	3.8	3.8	3.4	3.0	3.6	4.0	3.8
144.5°	4.2	4.6	4.8	4.4	3.7	3.7	3.4	3.0	3.6	4.1	3.9
145°	4.3	4.6	4.8	4.3	3.7	3.7	3.4	3.0	3.5	4.2	3.8
145.5°	4.4	4.7	4.7	4.2	3.7	3.7	3.5	3.0	3.5	4.2	3.8
146°	4.5	4.7	4.7	4.1	3.7	3.7	3.4	3.0	3.5	4.2	3.8
146.5°	4.5	4.6	4.6	4.1	3.6	3.7	3.4	3.0	3.5	4.2	3.8
147°	4.5	4.6	4.5	4.0	3.6	3.7	3.4	2.9	3.4	4.2	3.9
147.5°	4.5	4.6	4.4	3.9	3.6	3.7	3.3	2.9	3.5	4.1	4.0
148°	4.5	4.6	4.4	3.8	3.6	3.5	3.3	3.0	3.5	4.1	4.0
148.5°	4.4	4.5	4.3	3.7	3.6	3.5	3.3	3.0	3.4	4.1	4.0
149°	4.4	4.5	4.2	3.7	3.5	3.6	3.4	3.0	3.4	4.1	4.0
149.5°	4.4	4.4	4.1	3.6	3.5	3.6	3.4	3.0	3.4	4.1	4.0
150°	4.4	4.3	4.0	3.6	3.5	3.6	3.3	3.0	3.4	4.0	4.0
150.5°	4.3	4.2	3.9	3.5	3.5	3.5	3.3	3.0	3.4	4.0	4.0
151°	4.3	4.2	3.8	3.5	3.4	3.5	3.3	3.0	3.3	4.0	3.9
151.5°	4.3	4.1	3.7	3.4	3.4	3.5	3.3	3.0	3.3	4.0	3.9
152°	4.2	4.0	3.6	3.4	3.4	3.5	3.2	3.0	3.3	3.9	4.0
152.5°	4.1	3.9	3.6	3.4	3.5	3.5	3.2	3.0	3.1	3.8	4.1
153°	4.0	3.8	3.5	3.3	3.5	3.5	3.2	2.9	2.9	3.8	4.1
153.5°	4.0	3.7	3.4	3.3	3.4	3.4	3.2	2.9	2.9	3.7	4.1
154°	3.9	3.6	3.4	3.3	3.4	3.4	3.2	2.8	2.9	3.6	4.0
154.5°	3.8	3.6	3.3	3.3	3.4	3.4	3.2	2.8	2.8	3.5	4.0
155°	3.7	3.5	3.3	3.3	3.4	3.3	3.2	2.8	2.7	3.3	3.8
155.5°	3.6	3.4	3.2	3.3	3.3	3.2	3.1	2.7	2.7	3.2	3.6
156°	3.5	3.3	3.2	3.3	3.3	3.1	3.0	2.6	2.7	3.1	3.5



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
157.5°	3.3	3.2	3.1	3.2	3.2	3.1	2.6	2.6	2.7	3.0	3.5
158°	3.2	3.1	3.1	3.3	3.3	3.1	2.5	2.6	2.7	3.0	3.4
158.5°	3.2	3.1	3.1	3.3	3.3	3.0	2.5	2.6	2.6	2.9	3.4
159°	3.1	3.1	3.1	3.2	3.3	3.0	2.5	2.6	2.6	2.9	3.3
159.5°	3.1	3.1	3.1	3.2	3.2	3.0	2.5	2.5	2.6	2.9	3.2
160°	3.1	3.1	3.1	3.1	3.1	3.0	2.5	2.5	2.6	2.9	3.2
160.5°	3.0	3.1	3.1	3.1	3.1	3.0	2.5	2.5	2.6	2.8	3.2
161°	3.0	3.1	3.2	3.1	3.2	3.0	2.5	2.5	2.6	2.8	3.1
161.5°	3.0	3.1	3.2	3.2	3.2	2.8	2.5	2.5	2.6	2.8	3.1
162°	3.0	3.1	3.2	3.3	3.1	2.6	2.5	2.5	2.6	2.7	3.0
162.5°	3.0	3.1	3.2	3.3	3.0	2.5	2.5	2.5	2.6	2.7	3.0
163°	3.1	3.1	3.2	3.3	3.0	2.5	2.5	2.5	2.6	2.7	3.0
163.5°	3.1	3.1	3.2	3.2	2.8	2.5	2.5	2.5	2.6	2.7	2.9
164°	3.1	3.2	3.2	3.1	2.6	2.5	2.5	2.4	2.6	2.7	2.9
164.5°	3.1	3.2	3.3	3.1	2.6	2.4	2.5	2.4	2.6	2.6	2.9
165°	3.1	3.2	3.3	3.1	2.6	2.4	2.5	2.4	2.6	2.6	2.8
165.5°	3.1	3.2	3.3	3.0	2.5	2.4	2.5	2.4	2.5	2.6	2.8
166°	3.2	3.2	3.2	3.0	2.5	2.4	2.5	2.4	2.5	2.6	2.8
166.5°	3.2	3.2	3.2	3.0	2.5	2.4	2.5	2.4	2.5	2.6	2.8
167°	3.2	3.3	3.2	2.9	2.5	2.4	2.5	2.5	2.5	2.6	2.8
167.5°	3.2	3.3	3.2	2.7	2.5	2.5	2.5	2.5	2.5	2.6	2.8
168°	3.3	3.3	3.1	2.6	2.5	2.5	2.5	2.5	2.5	2.6	2.7
168.5°	3.3	3.3	3.0	2.6	2.5	2.5	2.5	2.5	2.5	2.6	2.7
169°	3.3	3.2	3.0	2.6	2.5	2.5	2.5	2.5	2.5	2.6	2.7
169.5°	3.3	3.2	3.0	2.5	2.5	2.5	2.6	2.5	2.5	2.6	2.7
170°	3.2	3.2	2.9	2.5	2.5	2.6	2.7	2.6	2.5	2.7	2.8
170.5°	3.2	3.1	2.7	2.5	2.5	2.7	2.8	2.8	2.5	2.8	3.1
171°	3.2	3.0	2.5	2.5	2.5	2.7	2.9	2.8	2.5	3.0	3.0
171.5°	3.2	2.9	2.5	2.4	2.5	2.7	2.9	2.8	2.8	3.0	3.0
172°	3.1	2.9	2.5	2.4	2.6	2.9	2.9	2.8	2.8	3.0	3.0
172.5°	3.0	2.8	2.5	2.4	2.6	2.9	2.9	2.8	2.8	3.0	3.0
173°	3.0	2.8	2.5	2.4	2.7	2.9	2.9	2.9	2.8	2.9	3.0
173.5°	2.9	2.7	2.5	2.5	2.7	2.9	2.9	2.9	2.8	2.9	3.0
174°	2.9	2.5	2.4	2.5	2.7	2.9	2.9	2.9	2.9	2.9	3.0
174.5°	2.8	2.4	2.4	2.5	2.8	2.9	2.9	2.9	2.9	2.9	3.0
175°	2.8	2.5	2.4	2.5	2.8	2.9	2.9	2.9	2.9	2.9	2.9
175.5°	2.7	2.5	2.4	2.6	2.8	2.9	2.9	2.9	2.9	2.9	2.9
176°	2.7	2.5	2.5	2.6	2.8	2.9	2.9	2.9	2.9	2.9	2.9
176.5°	2.7	2.6	2.5	2.6	2.7	2.9	2.9	2.9	2.9	2.9	2.9
177°	2.7	2.6	2.5	2.6	2.8	2.9	2.9	2.8	2.9	2.9	2.9
177.5°	2.6	2.5	2.5	2.6	2.8	2.9	2.9	2.8	2.8	2.8	2.8
178°	2.5	2.3	2.3	2.4	2.6	2.7	2.8	2.8	2.8	2.7	2.7
178.5°	2.5	2.3	2.3	2.4	2.5	2.6	2.7	2.7	2.7	2.8	2.8



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5	1457.5
0.5°	1456.9	1457.0	1457.0	1457.0	1457.0	1457.0	1457.1	1457.1	1457.2	1457.2	1457.2
1°	1456.5	1456.5	1456.3	1456.0	1455.7	1455.5	1455.7	1456.0	1456.3	1456.6	1456.8
1.5°	1455.7	1455.8	1455.8	1455.6	1455.5	1455.4	1455.6	1455.8	1456.0	1456.1	1456.3
2°	1454.5	1454.5	1454.4	1454.1	1453.8	1453.8	1454.0	1454.4	1454.8	1455.1	1455.2
2.5°	1453.6	1453.5	1452.9	1452.3	1452.3	1452.6	1452.6	1452.7	1453.2	1453.8	1454.2
3°	1452.3	1452.1	1451.3	1451.0	1451.2	1451.5	1451.4	1451.3	1451.8	1452.4	1452.6
3.5°	1450.0	1449.8	1449.7	1449.2	1449.3	1449.8	1450.1	1450.3	1450.6	1451.1	1451.6
4°	1448.9	1448.7	1448.1	1447.6	1447.8	1448.3	1448.5	1448.6	1448.7	1449.3	1449.8
4.5°	1446.6	1446.3	1446.2	1446.2	1446.1	1445.9	1446.0	1446.4	1446.7	1447.6	1448.7
5°	1444.8	1444.6	1443.8	1443.4	1443.0	1442.8	1443.4	1444.2	1445.1	1446.2	1447.5
5.5°	1443.0	1442.3	1441.7	1441.2	1441.0	1441.2	1441.3	1441.9	1443.0	1444.4	1445.8
6°	1440.3	1439.7	1439.3	1438.9	1438.8	1438.5	1438.5	1439.0	1440.4	1441.4	1443.2
6.5°	1437.8	1436.8	1436.3	1436.0	1435.7	1435.9	1436.0	1436.8	1438.0	1439.3	1441.2
7°	1435.7	1434.7	1433.5	1432.8	1433.0	1433.3	1433.6	1434.3	1435.7	1436.7	1439.3
7.5°	1433.3	1432.3	1430.6	1430.1	1429.6	1429.0	1429.8	1431.0	1432.4	1434.1	1436.5
8°	1430.0	1429.2	1427.7	1426.7	1426.2	1426.3	1426.7	1427.9	1429.3	1430.9	1433.7
8.5°	1426.8	1425.2	1424.4	1423.5	1422.7	1423.0	1423.2	1424.5	1426.4	1428.1	1430.8
9°	1423.2	1421.8	1420.9	1419.6	1419.4	1419.4	1419.4	1420.7	1422.9	1425.5	1428.6
9.5°	1420.3	1418.7	1416.7	1416.0	1415.6	1415.3	1415.5	1417.1	1419.3	1422.0	1425.4
10°	1417.8	1415.1	1413.3	1412.0	1411.6	1411.6	1411.5	1413.1	1415.8	1418.6	1421.8
10.5°	1413.7	1411.5	1409.2	1407.7	1407.1	1406.4	1407.5	1409.4	1411.8	1415.0	1419.0
11°	1409.6	1407.3	1405.0	1403.7	1402.9	1402.7	1403.1	1404.8	1407.8	1410.8	1415.1
11.5°	1405.4	1402.9	1400.6	1399.0	1398.4	1397.8	1398.7	1400.4	1403.6	1407.7	1410.8
12°	1402.0	1398.6	1396.0	1394.5	1393.5	1393.2	1394.4	1396.5	1399.4	1403.8	1408.0
12.5°	1398.0	1394.4	1391.7	1390.0	1389.0	1388.0	1389.5	1391.6	1394.8	1399.1	1404.4
13°	1393.6	1389.6	1386.8	1384.8	1383.1	1382.7	1384.5	1386.6	1389.7	1394.6	1399.6
13.5°	1388.5	1384.5	1381.6	1379.4	1377.7	1377.6	1379.1	1381.1	1384.9	1389.7	1395.5
14°	1384.2	1379.8	1376.6	1374.2	1372.4	1372.9	1373.5	1376.0	1380.3	1385.7	1390.4
14.5°	1379.3	1374.4	1371.4	1369.0	1366.4	1366.8	1368.4	1370.6	1374.9	1380.7	1386.2
15°	1374.3	1369.4	1366.2	1363.1	1361.4	1361.1	1362.4	1365.4	1369.3	1375.2	1381.3
15.5°	1369.5	1364.3	1360.2	1357.0	1355.7	1354.9	1356.4	1359.4	1364.1	1370.0	1376.4
16°	1364.3	1358.9	1354.3	1350.8	1348.7	1348.6	1350.0	1353.3	1358.1	1364.3	1370.9
16.5°	1358.8	1353.2	1348.5	1344.7	1342.8	1343.0	1344.2	1347.2	1352.5	1358.7	1365.5
17°	1353.3	1347.4	1342.7	1338.9	1336.8	1336.4	1337.8	1341.0	1346.4	1353.6	1360.2
17.5°	1347.5	1341.5	1336.6	1332.5	1330.2	1329.6	1331.5	1334.5	1340.0	1347.5	1355.2
18°	1341.6	1335.1	1330.0	1325.7	1323.2	1322.3	1323.9	1328.5	1334.1	1341.4	1349.6
18.5°	1335.5	1329.1	1323.1	1318.4	1316.4	1315.9	1317.5	1321.8	1328.1	1335.3	1343.6
19°	1329.9	1322.3	1316.2	1311.6	1309.9	1308.3	1309.9	1314.5	1320.7	1328.8	1336.9
19.5°	1322.9	1315.5	1309.3	1304.5	1302.5	1301.2	1303.1	1307.2	1313.7	1322.6	1331.2
20°	1316.9	1309.3	1302.6	1297.3	1294.5	1293.9	1296.3	1300.3	1307.3	1316.1	1325.8
20.5°	1310.4	1302.3	1295.6	1289.8	1286.6	1286.2	1288.6	1293.5	1300.3	1309.4	1319.5
21°	1303.5	1295.5	1288.3	1282.2	1278.7	1278.5	1280.8	1285.7	1293.3	1302.9	1312.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1282.7	1273.2	1265.3	1259.2	1254.7	1254.1	1256.2	1261.5	1270.1	1281.4	1292.1
23°	1275.8	1265.7	1257.7	1250.9	1246.7	1246.4	1248.1	1253.8	1262.7	1274.0	1285.6
23.5°	1268.2	1257.6	1249.3	1242.6	1238.9	1237.3	1239.5	1245.4	1254.7	1266.1	1278.2
24°	1260.8	1250.0	1241.0	1233.5	1229.9	1228.3	1230.4	1237.2	1246.3	1258.1	1270.5
24.5°	1253.1	1242.3	1232.5	1224.8	1221.1	1219.1	1222.3	1229.4	1238.8	1250.4	1263.2
25°	1246.4	1234.2	1224.8	1216.6	1212.7	1210.4	1213.5	1220.8	1230.5	1242.6	1255.4
25.5°	1237.6	1225.8	1216.2	1207.8	1203.1	1201.5	1204.4	1211.4	1221.5	1234.2	1248.0
26°	1229.5	1217.3	1207.0	1199.0	1194.3	1192.2	1195.5	1202.5	1213.5	1226.5	1240.4
26.5°	1221.4	1209.0	1198.0	1189.8	1185.3	1183.0	1185.7	1193.6	1204.6	1218.2	1232.1
27°	1213.7	1201.0	1189.4	1180.2	1175.4	1174.1	1176.5	1184.2	1195.8	1209.4	1224.0
27.5°	1205.2	1191.5	1180.2	1170.6	1165.3	1164.7	1167.3	1174.8	1186.5	1201.2	1215.5
28°	1196.3	1182.8	1171.3	1161.3	1156.2	1154.7	1158.0	1166.2	1177.9	1192.3	1207.7
28.5°	1188.1	1174.4	1162.2	1152.4	1146.6	1144.8	1147.8	1156.4	1168.8	1183.3	1198.4
29°	1179.5	1165.0	1152.7	1142.3	1136.5	1135.6	1138.7	1146.3	1158.7	1174.0	1190.0
29.5°	1170.7	1155.6	1143.1	1132.5	1126.8	1125.0	1127.6	1136.7	1149.6	1165.5	1181.9
30°	1161.7	1146.3	1133.5	1122.8	1116.5	1114.9	1118.4	1127.2	1140.2	1156.5	1173.0
30.5°	1152.5	1137.2	1123.8	1112.8	1106.9	1104.7	1108.1	1117.0	1130.3	1146.8	1163.8
31°	1143.4	1127.7	1114.1	1102.9	1096.7	1094.5	1098.3	1107.3	1120.7	1137.3	1155.2
31.5°	1134.1	1118.1	1104.3	1092.7	1086.1	1083.9	1087.8	1097.4	1111.2	1128.2	1145.7
32°	1124.6	1108.7	1094.5	1082.1	1075.5	1073.3	1077.3	1086.9	1101.6	1118.7	1136.7
32.5°	1115.7	1099.1	1084.3	1071.5	1064.9	1062.7	1066.8	1076.4	1091.5	1109.3	1127.4
33°	1106.0	1088.9	1074.1	1060.8	1054.3	1052.2	1056.3	1065.8	1081.1	1099.7	1118.2
33.5°	1095.9	1078.7	1063.9	1050.2	1043.7	1041.6	1045.8	1055.3	1070.8	1089.9	1108.8
34°	1087.6	1068.7	1053.9	1040.1	1032.5	1030.8	1034.4	1044.7	1060.4	1079.8	1099.2
34.5°	1077.3	1058.6	1043.5	1030.1	1021.9	1019.6	1023.8	1034.6	1050.2	1069.7	1090.0
35°	1067.1	1048.3	1032.2	1019.2	1011.2	1008.6	1013.2	1024.1	1039.8	1059.7	1080.1
35.5°	1057.0	1038.1	1021.8	1008.5	1000.4	997.8	1002.2	1013.5	1029.1	1049.6	1070.3
36°	1046.9	1028.0	1011.5	997.2	989.0	986.6	991.0	1001.7	1018.5	1039.5	1060.4
36.5°	1036.6	1017.3	1000.0	986.2	977.6	975.7	979.9	991.2	1007.7	1028.5	1050.6
37°	1026.2	1006.2	989.4	975.5	966.4	964.0	968.6	980.5	997.0	1018.0	1040.3
37.5°	1015.9	995.6	978.6	964.5	956.0	952.9	957.6	969.1	985.9	1007.2	1030.0
38°	1005.1	984.8	967.4	952.7	944.1	942.2	946.2	958.3	975.4	996.8	1019.0
38.5°	994.6	974.3	956.4	941.9	933.1	930.1	935.2	947.1	964.5	986.3	1008.7
39°	984.1	963.6	945.3	930.5	921.9	919.2	924.2	936.1	953.5	975.6	998.4
39.5°	973.3	953.0	934.6	919.3	910.9	907.7	912.3	924.6	942.3	964.6	988.0
40°	963.0	941.8	923.4	908.3	899.1	896.4	901.3	913.5	931.2	953.8	977.3
40.5°	952.2	930.8	912.3	896.9	887.6	885.0	889.4	901.7	920.6	942.9	967.0
41°	941.5	919.8	901.0	885.2	876.3	873.5	878.6	891.0	909.1	932.1	956.0
41.5°	930.5	908.9	889.9	874.3	864.9	862.3	866.8	879.7	898.2	921.2	945.3
42°	919.4	897.6	878.4	863.0	853.1	850.6	855.8	868.0	886.9	909.9	935.0
42.5°	908.9	886.9	867.2	851.6	841.9	839.4	844.2	856.9	876.0	898.6	923.5
43°	898.1	875.3	856.2	840.2	830.1	828.2	833.1	845.7	864.7	888.0	912.9
43.5°	886.8	864.4	844.8	828.5	819.2	816.4	821.4	833.9	852.9	877.0	901.8



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	853.4	830.2	810.5	794.6	785.2	782.0	786.8	800.0	818.8	843.3	868.9
45.5°	842.3	819.3	799.7	783.1	773.7	770.8	775.9	788.8	807.7	832.0	857.6
46°	831.1	808.2	788.0	772.0	762.1	759.9	764.7	777.7	796.9	820.8	846.6
46.5°	819.7	796.8	776.8	760.6	750.9	748.4	753.3	766.6	785.7	809.5	835.2
47°	808.7	785.3	765.4	749.3	739.3	736.9	742.1	754.9	774.2	798.2	824.4
47.5°	797.1	774.1	754.4	738.1	728.3	726.0	730.8	743.7	762.8	787.0	813.0
48°	785.6	763.1	742.5	726.7	717.2	714.4	719.2	732.2	751.5	775.5	801.5
48.5°	774.3	751.6	731.7	715.7	706.2	703.3	708.4	721.1	740.2	764.4	789.9
49°	763.2	740.2	720.4	704.7	694.7	692.0	697.5	710.2	729.5	753.5	778.7
49.5°	752.4	728.9	709.5	693.6	683.5	681.5	686.2	699.1	717.8	742.1	767.8
50°	740.1	717.8	697.9	682.2	672.5	670.1	675.5	687.7	707.2	730.6	756.7
50.5°	729.4	706.4	686.2	671.0	661.9	659.3	663.8	676.4	695.7	719.3	745.2
51°	717.9	694.9	675.7	660.2	650.6	648.8	653.2	665.7	684.2	708.1	734.2
51.5°	706.4	683.8	664.8	649.4	639.7	637.7	642.6	655.1	673.5	697.0	722.6
52°	694.8	673.0	653.8	638.5	628.9	626.8	631.7	644.4	662.6	686.4	711.4
52.5°	683.6	661.9	642.7	627.5	618.4	616.6	620.8	633.4	651.8	675.1	700.1
53°	672.4	650.7	631.4	616.5	607.5	605.8	610.2	622.5	640.7	663.8	688.9
53.5°	661.2	639.6	620.4	605.8	596.8	594.9	600.0	611.5	629.9	652.8	678.2
54°	650.0	628.6	609.4	595.2	586.2	583.8	588.7	600.6	618.8	641.6	666.8
54.5°	638.7	617.1	598.6	584.4	575.6	573.8	578.6	590.0	608.1	630.5	655.1
55°	627.3	605.8	587.9	573.9	565.0	563.2	567.8	579.6	597.2	619.7	644.0
55.5°	616.5	595.1	577.1	563.2	555.1	553.1	557.7	569.0	586.4	608.7	632.5
56°	605.0	584.1	566.2	552.8	544.5	542.8	547.3	558.3	575.5	597.8	621.6
56.5°	593.7	572.9	555.8	542.4	533.8	532.2	537.1	548.1	565.2	586.8	610.3
57°	582.6	562.2	544.9	531.9	523.8	522.3	526.8	538.0	554.3	575.7	599.2
57.5°	571.0	551.5	534.7	521.4	513.5	511.9	516.2	527.2	543.9	564.7	587.9
58°	560.1	540.5	523.9	511.2	503.7	502.0	506.4	516.9	533.2	553.8	576.9
58.5°	548.8	530.0	513.6	500.9	493.5	492.1	496.4	506.7	522.9	543.2	566.2
59°	537.8	519.2	503.0	490.9	483.3	482.0	486.3	496.7	512.4	532.6	555.1
59.5°	526.8	508.3	492.9	480.6	473.2	472.0	476.8	486.6	502.3	521.8	544.0
60°	515.7	497.9	482.8	470.4	463.8	462.6	466.6	476.5	491.8	511.2	532.6
60.5°	504.9	487.2	472.3	460.5	453.8	452.5	456.7	466.4	481.7	500.6	521.4
61°	493.6	476.7	462.0	450.6	443.9	442.9	446.8	456.6	471.3	490.0	510.9
61.5°	482.7	466.1	452.0	441.1	434.9	433.4	437.5	446.9	461.4	479.4	499.6
62°	471.6	455.7	442.1	431.0	424.8	423.9	427.8	437.3	451.1	469.2	488.8
62.5°	461.1	445.3	431.9	421.3	415.1	414.6	418.3	427.4	441.2	458.8	478.0
63°	450.4	435.1	421.6	411.5	405.9	405.0	408.7	417.6	431.1	448.3	467.2
63.5°	439.7	424.6	411.7	401.9	396.6	395.7	399.4	408.0	421.2	438.1	456.7
64°	428.7	414.3	402.4	392.5	387.3	386.5	389.9	398.6	411.2	427.9	445.8
64.5°	418.1	404.2	392.4	382.9	377.8	377.3	380.8	389.0	401.5	417.5	435.2
65°	407.5	394.1	382.5	373.7	368.9	368.1	371.7	379.8	391.9	407.4	424.5
65.5°	396.9	384.0	373.3	364.5	359.6	359.0	362.6	370.4	382.4	397.2	413.9
66°	386.7	374.1	363.8	354.9	350.3	349.8	353.1	360.9	372.6	387.3	403.3



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	354.9	344.0	334.8	327.6	323.7	323.3	326.5	333.6	344.0	357.3	371.6
68°	344.6	334.3	325.4	318.5	315.0	314.7	317.8	324.7	334.5	347.5	361.6
68.5°	334.5	324.5	316.1	309.7	306.3	305.8	309.0	315.8	325.4	337.8	351.5
69°	324.3	314.7	307.0	300.9	297.6	297.4	300.3	306.9	316.1	328.1	341.4
69.5°	314.1	305.2	297.7	291.9	288.7	288.7	291.6	298.0	306.9	318.3	330.9
70°	304.2	295.8	288.8	283.1	280.4	280.5	283.2	289.1	297.7	308.5	320.7
70.5°	293.8	286.2	279.7	274.7	272.1	272.2	274.8	280.4	288.6	299.2	310.3
71°	284.0	276.8	270.9	266.2	263.7	263.8	266.4	271.9	279.8	289.6	300.7
71.5°	274.2	267.5	262.0	257.6	255.3	255.5	258.2	263.3	270.9	280.3	290.6
72°	264.4	258.4	253.2	249.2	247.2	247.6	250.0	254.9	262.1	271.1	280.9
72.5°	254.6	249.2	244.5	240.9	239.1	239.4	241.9	246.6	253.3	261.8	270.8
73°	245.1	240.2	235.9	232.6	230.9	231.4	233.7	238.3	244.4	252.6	261.6
73.5°	235.5	231.2	227.2	224.4	223.1	223.4	225.8	229.9	236.0	243.5	251.7
74°	225.9	222.2	219.0	216.5	215.1	216.0	217.9	221.9	227.5	234.6	242.0
74.5°	216.6	213.4	210.5	208.6	207.5	208.2	210.2	214.0	219.2	225.6	232.4
75°	207.4	204.9	202.5	200.6	199.8	200.5	202.5	205.9	210.8	216.8	223.4
75.5°	198.4	196.3	194.2	192.9	192.3	192.9	194.8	198.1	202.5	208.0	214.0
76°	189.2	187.8	186.4	185.1	184.6	185.5	187.2	190.4	194.6	199.4	204.9
76.5°	180.3	179.3	178.4	177.6	177.4	178.1	179.9	182.8	186.5	190.8	195.7
77°	171.6	171.1	170.8	170.2	170.1	171.0	172.6	175.2	178.6	182.4	186.8
77.5°	162.8	163.1	163.0	163.0	163.2	164.0	165.6	167.8	170.9	174.2	177.5
78°	154.4	155.3	155.6	155.8	156.4	157.1	158.5	160.7	163.4	166.2	169.0
78.5°	146.2	147.7	148.3	148.8	149.5	150.4	151.7	153.6	155.7	158.2	160.4
79°	138.0	139.9	141.1	142.0	142.7	143.7	145.0	146.7	148.4	150.3	152.1
79.5°	130.3	132.6	134.2	135.4	136.3	137.2	138.6	139.9	141.3	142.7	143.5
80°	122.6	125.8	127.8	129.1	130.3	131.1	132.1	133.1	134.5	135.1	135.6
80.5°	115.0	118.9	121.4	123.1	124.4	125.2	126.1	126.9	128.0	128.0	128.0
81°	107.3	112.0	115.0	117.0	118.4	119.3	120.2	120.9	121.5	121.1	120.5
81.5°	100.2	105.1	108.5	111.0	112.5	113.4	114.2	114.9	115.0	114.3	113.0
82°	93.6	98.5	102.2	104.9	106.5	107.5	108.3	108.8	108.6	107.3	105.4
82.5°	86.8	92.4	96.2	99.1	101.0	102.1	102.8	102.9	102.2	100.7	98.0
83°	80.2	86.2	90.5	93.5	95.5	96.7	97.3	97.2	96.2	94.3	91.3
83.5°	74.1	80.3	84.9	88.1	90.1	91.3	91.9	91.6	90.5	88.0	84.5
84°	68.1	74.6	79.5	82.9	85.0	86.3	86.8	86.4	84.8	82.0	78.1
84.5°	62.4	69.3	74.3	77.8	80.1	81.3	81.7	81.2	79.4	76.3	71.8
85°	57.1	64.1	69.3	73.0	75.4	76.6	76.9	76.1	74.1	70.8	66.0
85.5°	52.0	59.1	64.5	68.3	70.7	71.9	72.1	71.3	69.1	65.5	60.4
86°	47.2	54.3	59.9	63.9	66.3	67.5	67.8	66.8	64.2	60.4	55.0
86.5°	42.6	50.0	55.6	59.5	62.0	63.2	63.4	62.3	59.8	55.5	49.8
87°	38.4	45.8	51.4	55.5	58.1	59.3	59.3	58.0	55.4	51.0	45.1
87.5°	34.4	41.8	47.6	51.7	54.2	55.4	55.4	54.1	51.2	46.8	40.6
88°	30.9	38.2	43.9	48.1	50.6	51.7	51.7	50.3	47.3	42.8	36.5
88.5°	27.6	34.9	40.5	44.6	47.1	48.2	48.1	46.6	43.7	39.0	32.8



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	19.7	26.3	31.6	35.5	38.0	39.1	38.8	37.1	33.9	29.3	23.1
90.5°	17.7	23.9	29.1	32.9	35.4	36.3	36.0	34.4	31.2	26.6	20.6
91°	15.9	21.8	26.8	30.6	32.9	33.9	33.6	31.9	28.7	24.2	18.4
91.5°	14.5	20.0	24.8	28.4	30.7	31.5	31.2	29.6	26.4	22.0	16.5
92°	13.5	18.4	22.9	26.3	28.6	29.5	29.1	27.4	24.4	20.1	14.8
92.5°	12.7	17.0	21.3	24.6	26.7	27.5	27.1	25.5	22.5	18.4	13.8
93°	11.8	15.8	19.9	23.0	25.0	25.7	25.4	23.8	20.9	17.0	12.8
93.5°	10.9	14.8	18.6	21.6	23.5	24.2	23.8	22.2	19.5	15.7	11.8
94°	10.0	14.0	17.6	20.3	22.1	22.8	22.4	20.9	18.2	14.7	10.9
94.5°	9.6	13.3	16.7	19.3	21.0	21.6	21.2	19.7	17.2	13.8	9.9
95°	9.2	12.7	15.9	18.4	20.0	20.5	20.1	18.7	16.2	13.0	9.4
95.5°	8.9	12.2	15.2	17.6	19.0	19.5	19.1	17.8	15.4	12.4	9.0
96°	8.6	11.8	14.6	16.8	18.2	18.7	18.3	17.0	14.7	11.9	8.7
96.5°	8.3	11.5	14.1	16.1	17.4	17.9	17.5	16.3	14.2	11.5	8.3
97°	8.1	11.2	13.6	15.5	16.8	17.2	16.9	15.7	13.7	11.0	8.0
97.5°	8.0	10.8	13.2	15.0	16.2	16.6	16.3	15.2	13.3	10.6	7.6
98°	7.9	10.4	12.8	14.6	15.7	16.1	15.8	14.8	12.9	10.2	7.3
98.5°	7.7	10.2	12.4	14.1	15.2	15.7	15.4	14.3	12.4	9.8	7.0
99°	7.6	10.0	12.1	13.7	14.8	15.2	14.9	13.8	12.0	9.4	6.9
99.5°	7.5	9.8	11.9	13.4	14.4	14.8	14.4	13.4	11.7	9.1	6.8
100°	7.4	9.7	11.6	13.1	14.0	14.4	14.0	13.0	11.3	8.9	6.7
100.5°	7.3	9.6	11.4	12.8	13.7	14.0	13.6	12.6	11.0	8.7	6.7
101°	7.2	9.4	11.2	12.6	13.4	13.7	13.3	12.3	10.6	8.6	6.6
101.5°	7.1	9.3	11.0	12.3	13.1	13.4	13.0	12.0	10.3	8.5	6.5
102°	7.0	9.2	10.8	12.1	12.8	13.1	12.7	11.7	10.2	8.4	6.4
102.5°	6.8	9.1	10.7	11.9	12.6	12.8	12.4	11.5	10.1	8.3	6.3
103°	6.7	8.9	10.5	11.7	12.4	12.7	12.3	11.4	9.9	8.2	6.1
103.5°	6.5	8.8	10.4	11.5	12.2	12.5	12.1	11.3	9.8	8.1	5.9
104°	6.4	8.6	10.2	11.4	12.0	12.3	12.0	11.1	9.7	8.0	5.8
104.5°	6.2	8.4	10.1	11.2	11.9	12.1	11.8	11.0	9.6	7.9	5.6
105°	6.1	8.3	9.9	11.0	11.7	12.0	11.7	10.8	9.5	7.7	5.4
105.5°	6.0	8.1	9.7	10.8	11.5	11.8	11.5	10.7	9.4	7.5	5.3
106°	5.9	7.9	9.5	10.7	11.4	11.7	11.4	10.5	9.2	7.4	5.1
106.5°	5.7	7.8	9.3	10.5	11.2	11.5	11.2	10.4	9.0	7.1	5.0
107°	5.6	7.6	9.1	10.3	11.0	11.3	11.0	10.2	8.8	6.9	4.8
107.5°	5.5	7.4	8.9	10.1	10.8	11.1	10.8	10.0	8.6	6.8	4.7
108°	5.3	7.3	8.7	9.9	10.6	10.9	10.6	9.8	8.4	6.6	4.6
108.5°	5.2	7.1	8.6	9.7	10.4	10.7	10.5	9.6	8.2	6.4	4.5
109°	5.0	7.0	8.4	9.5	10.2	10.5	10.2	9.3	7.9	6.2	4.4
109.5°	4.9	6.8	8.2	9.3	9.9	10.2	10.0	9.1	7.7	6.1	4.3
110°	4.7	6.6	8.0	9.0	9.7	10.0	9.8	8.9	7.5	5.9	4.2
110.5°	4.6	6.5	7.8	8.9	9.5	9.8	9.5	8.7	7.3	5.8	4.0
111°	4.4	6.3	7.7	8.7	9.3	9.5	9.3	8.4	7.1	5.6	3.9



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	4.0	5.8	7.2	8.1	8.6	8.9	8.7	7.8	6.6	5.3	3.5
113°	3.8	5.6	7.0	7.9	8.4	8.7	8.4	7.6	6.4	5.1	3.4
113.5°	3.7	5.4	6.8	7.7	8.2	8.5	8.2	7.5	6.3	5.0	3.3
114°	3.5	5.3	6.7	7.5	8.1	8.3	8.1	7.3	6.1	4.9	3.2
114.5°	3.4	5.1	6.5	7.4	7.9	8.1	7.9	7.1	5.9	4.7	3.1
115°	3.4	4.9	6.3	7.2	7.7	7.9	7.7	6.9	5.8	4.6	3.0
115.5°	3.3	4.7	6.1	7.1	7.5	7.6	7.5	6.7	5.6	4.4	2.9
116°	3.2	4.5	6.0	6.9	7.4	7.5	7.3	6.5	5.5	4.2	2.9
116.5°	3.2	4.3	5.8	6.7	7.2	7.3	7.1	6.3	5.3	4.1	2.8
117°	3.1	4.2	5.6	6.5	7.1	7.1	6.9	6.2	5.1	4.0	2.8
117.5°	3.1	4.0	5.3	6.4	6.9	7.0	6.7	6.0	5.0	3.8	2.7
118°	3.0	3.9	5.1	6.2	6.7	6.8	6.5	5.8	4.8	3.7	2.7
118.5°	3.0	3.8	4.9	6.0	6.5	6.6	6.4	5.7	4.6	3.6	2.6
119°	2.9	3.7	4.8	5.8	6.3	6.4	6.2	5.5	4.4	3.5	2.5
119.5°	2.8	3.6	4.6	5.5	6.1	6.2	6.0	5.3	4.2	3.4	2.3
120°	2.7	3.5	4.4	5.3	5.9	6.1	5.8	5.0	4.1	3.3	2.2
120.5°	2.5	3.4	4.2	5.1	5.7	5.8	5.6	4.8	3.9	3.2	2.2
121°	2.4	3.3	4.1	4.9	5.4	5.6	5.3	4.7	3.8	3.1	2.1
121.5°	2.4	3.3	4.0	4.7	5.2	5.4	5.1	4.5	3.7	3.0	2.1
122°	2.4	3.2	3.9	4.5	5.0	5.2	5.0	4.3	3.6	3.0	2.1
122.5°	2.4	3.2	3.8	4.4	4.8	5.0	4.8	4.2	3.5	2.9	2.1
123°	2.5	3.1	3.7	4.3	4.7	4.8	4.6	4.1	3.4	2.7	2.2
123.5°	2.5	3.0	3.6	4.1	4.5	4.6	4.4	4.0	3.3	2.6	2.2
124°	2.6	2.8	3.5	4.0	4.4	4.5	4.3	3.8	3.2	2.4	2.3
124.5°	2.6	2.7	3.4	3.9	4.2	4.3	4.2	3.7	3.1	2.3	2.3
125°	2.6	2.6	3.3	3.8	4.1	4.2	4.1	3.6	3.0	2.2	2.3
125.5°	2.7	2.4	3.2	3.7	4.0	4.1	3.9	3.6	3.0	2.1	2.4
126°	2.7	2.3	3.1	3.6	3.9	3.9	3.8	3.5	2.8	2.0	2.4
126.5°	2.8	2.3	3.0	3.5	3.8	3.8	3.7	3.4	2.7	2.0	2.5
127°	2.9	2.4	2.9	3.4	3.7	3.7	3.6	3.3	2.5	2.0	2.5
127.5°	2.9	2.4	2.7	3.3	3.6	3.6	3.6	3.2	2.4	2.0	2.5
128°	2.9	2.5	2.6	3.2	3.5	3.6	3.5	3.1	2.3	2.1	2.5
128.5°	3.0	2.5	2.5	3.1	3.4	3.5	3.4	2.9	2.2	2.1	2.5
129°	3.1	2.5	2.3	2.9	3.3	3.4	3.3	2.8	2.1	2.2	2.5
129.5°	3.1	2.6	2.3	2.8	3.2	3.3	3.2	2.6	2.1	2.2	2.5
130°	3.1	2.6	2.3	2.7	3.0	3.1	3.0	2.5	2.1	2.2	2.5
130.5°	3.1	2.7	2.4	2.5	2.9	3.0	2.8	2.4	2.2	2.3	2.6
131°	3.2	2.7	2.4	2.4	2.7	2.8	2.7	2.3	2.2	2.3	2.6
131.5°	3.2	2.7	2.5	2.3	2.6	2.7	2.6	2.2	2.2	2.4	2.6
132°	3.2	2.8	2.5	2.3	2.4	2.5	2.4	2.2	2.3	2.4	2.6
132.5°	3.3	2.8	2.5	2.3	2.3	2.4	2.3	2.3	2.3	2.5	2.7
133°	3.3	2.9	2.6	2.4	2.3	2.3	2.3	2.3	2.4	2.5	2.8
133.5°	3.4	2.9	2.6	2.4	2.3	2.2	2.3	2.3	2.4	2.6	2.9



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
135°	3.6	3.1	2.7	2.5	2.4	2.3	2.4	2.4	2.5	2.7	3.1
135.5°	3.6	3.1	2.8	2.6	2.4	2.4	2.4	2.5	2.6	2.8	3.1
136°	3.7	3.2	2.8	2.6	2.5	2.4	2.5	2.5	2.6	2.8	3.2
136.5°	3.7	3.2	2.8	2.6	2.5	2.5	2.5	2.5	2.7	2.9	3.2
137°	3.8	3.3	2.9	2.7	2.6	2.5	2.5	2.6	2.7	2.9	3.2
137.5°	3.8	3.3	2.9	2.7	2.6	2.5	2.6	2.6	2.8	3.0	3.1
138°	3.7	3.4	3.0	2.8	2.6	2.6	2.6	2.6	2.8	3.1	3.0
138.5°	3.6	3.5	3.0	2.8	2.7	2.6	2.7	2.7	2.9	3.2	3.0
139°	3.6	3.5	3.1	2.8	2.7	2.6	2.7	2.7	2.9	3.2	3.0
139.5°	3.6	3.6	3.1	2.9	2.7	2.7	2.7	2.8	3.0	3.3	2.9
140°	3.6	3.6	3.2	2.9	2.8	2.7	2.8	2.8	3.0	3.3	2.9
140.5°	3.6	3.6	3.3	3.0	2.8	2.8	2.8	2.9	3.1	3.3	2.9
141°	3.6	3.7	3.4	3.0	2.9	2.8	2.9	2.9	3.2	3.4	2.9
141.5°	3.5	3.7	3.5	3.1	2.9	2.9	2.9	3.0	3.3	3.4	2.9
142°	3.6	3.7	3.5	3.1	2.9	2.9	3.0	3.1	3.4	3.3	2.9
142.5°	3.6	3.6	3.6	3.2	3.0	2.9	3.0	3.2	3.4	3.2	2.9
143°	3.6	3.5	3.6	3.3	3.1	3.0	3.1	3.3	3.4	3.2	2.9
143.5°	3.6	3.5	3.6	3.4	3.1	3.1	3.2	3.4	3.5	3.2	3.0
144°	3.6	3.5	3.7	3.5	3.3	3.2	3.3	3.5	3.5	3.2	2.9
144.5°	3.6	3.5	3.7	3.6	3.4	3.3	3.4	3.5	3.5	3.1	2.9
145°	3.5	3.5	3.6	3.6	3.5	3.4	3.5	3.5	3.4	3.1	2.9
145.5°	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.6	3.3	3.1	2.9
146°	3.5	3.5	3.5	3.7	3.6	3.6	3.6	3.6	3.3	3.1	2.9
146.5°	3.6	3.5	3.4	3.7	3.6	3.6	3.6	3.6	3.3	3.1	2.9
147°	3.6	3.5	3.4	3.6	3.7	3.7	3.7	3.5	3.3	3.1	2.9
147.5°	3.6	3.5	3.4	3.5	3.7	3.7	3.7	3.4	3.2	3.1	2.9
148°	3.6	3.5	3.4	3.4	3.6	3.7	3.6	3.4	3.2	3.1	2.9
148.5°	3.6	3.5	3.4	3.4	3.5	3.6	3.5	3.4	3.2	3.1	2.9
149°	3.6	3.5	3.4	3.4	3.4	3.5	3.5	3.4	3.2	3.0	2.9
149.5°	3.6	3.5	3.4	3.4	3.4	3.5	3.4	3.3	3.2	3.0	2.9
150°	3.6	3.5	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	2.9
150.5°	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	2.9
151°	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	2.9
151.5°	3.6	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	2.9
152°	3.7	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	2.9
152.5°	3.7	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.0	2.9
153°	3.7	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.1	3.0	2.9
153.5°	3.7	3.4	3.3	3.4	3.4	3.4	3.4	3.3	3.1	3.0	2.9
154°	3.8	3.4	3.3	3.4	3.4	3.4	3.4	3.3	3.1	3.0	3.0
154.5°	3.8	3.5	3.3	3.3	3.4	3.4	3.3	3.3	3.1	3.0	3.0
155°	3.8	3.5	3.3	3.3	3.3	3.4	3.3	3.3	3.2	3.0	3.0
155.5°	3.7	3.6	3.4	3.3	3.3	3.4	3.3	3.3	3.2	3.1	3.0
156°	3.6	3.6	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	3.8	3.6	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.1
158°	3.7	3.5	3.5	3.4	3.3	3.4	3.4	3.3	3.3	3.3	3.2
158.5°	3.5	3.5	3.6	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2
159°	3.4	3.4	3.6	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.2
159.5°	3.3	3.5	3.7	3.5	3.4	3.4	3.4	3.5	3.5	3.4	3.3
160°	3.3	3.5	3.7	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.3
160.5°	3.3	3.5	3.7	3.6	3.5	3.5	3.5	3.5	3.6	3.5	3.4
161°	3.3	3.4	3.6	3.7	3.6	3.5	3.5	3.6	3.6	3.5	3.4
161.5°	3.3	3.4	3.5	3.7	3.6	3.6	3.6	3.6	3.7	3.6	3.4
162°	3.3	3.3	3.5	3.7	3.7	3.6	3.7	3.7	3.7	3.6	3.4
162.5°	3.2	3.3	3.5	3.8	3.7	3.7	3.7	3.8	3.8	3.7	3.4
163°	3.2	3.3	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.4
163.5°	3.2	3.3	3.4	3.7	3.8	3.8	3.8	3.8	3.8	3.6	3.5
164°	3.2	3.3	3.3	3.6	3.8	3.8	3.9	3.9	3.8	3.7	3.4
164.5°	3.1	3.3	3.3	3.5	3.9	3.9	3.9	3.9	3.9	3.8	3.0
165°	3.1	3.2	3.3	3.5	3.9	3.9	3.9	4.0	3.9	3.5	2.9
165.5°	3.1	3.2	3.3	3.5	3.8	3.9	4.0	4.0	3.8	3.0	3.3
166°	3.0	3.2	3.3	3.3	3.8	4.0	4.0	4.0	3.8	3.1	3.4
166.5°	3.0	3.3	3.3	3.2	3.7	4.0	4.0	4.0	3.8	3.5	3.0
167°	3.0	3.4	3.3	3.2	3.6	4.0	4.0	4.0	3.4	3.4	2.7
167.5°	3.0	3.5	3.4	3.2	3.6	4.0	4.0	4.0	3.0	2.9	3.0
168°	3.0	3.5	3.4	3.2	3.5	3.9	4.0	4.0	3.4	2.7	3.4
168.5°	3.2	3.5	3.7	3.2	3.3	3.9	3.9	3.9	3.7	3.4	3.1
169°	3.1	3.5	3.6	3.3	3.2	3.9	3.9	3.8	2.9	3.4	3.1
169.5°	3.1	3.4	3.6	3.3	3.1	3.8	3.9	3.6	2.6	3.4	3.3
170°	3.2	3.4	3.5	3.5	3.1	3.6	3.8	3.1	3.4	3.4	3.3
170.5°	3.2	3.3	3.5	3.5	3.1	3.6	3.8	3.0	3.5	3.4	3.2
171°	3.2	3.3	3.4	3.5	3.1	3.5	3.7	3.0	3.3	3.4	3.2
171.5°	3.1	3.2	3.3	3.5	3.1	3.4	3.7	2.6	3.4	3.3	3.2
172°	3.1	3.2	3.3	3.4	3.2	3.0	3.6	2.8	3.4	3.3	3.1
172.5°	3.1	3.2	3.2	3.3	3.3	2.9	3.4	3.2	3.3	3.2	3.1
173°	3.0	3.1	3.2	3.3	3.3	2.9	3.3	3.2	3.3	3.1	3.0
173.5°	3.0	3.1	3.1	3.2	3.2	2.8	2.8	3.2	3.2	3.0	2.9
174°	3.0	3.1	3.1	3.2	3.2	2.8	2.4	3.1	3.1	3.0	2.9
174.5°	3.0	3.0	3.1	3.1	3.2	2.7	2.2	3.1	3.0	2.9	2.8
175°	3.0	3.0	3.0	3.1	3.1	2.7	2.6	3.0	2.9	2.9	2.8
175.5°	2.9	3.0	3.0	3.0	3.0	2.7	2.9	2.9	2.8	2.8	2.8
176°	2.9	2.9	2.9	3.0	3.0	2.6	2.9	2.8	2.8	2.8	2.8
176.5°	2.9	2.9	2.9	2.9	2.9	2.6	2.8	2.8	2.8	2.8	2.8
177°	2.8	2.8	2.8	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8
177.5°	2.8	2.8	2.7	2.7	2.8	1.1	2.8	2.8	2.8	2.8	2.7
178°	2.7	2.7	2.7	2.8	2.8	1.6	2.8	2.8	2.8	2.7	2.7
178.5°	2.8	2.8	2.8	2.7	2.5	2.2	2.6	2.8	2.8	2.8	2.8



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1457.5	1457.5	1457.5	1457.5
0.5°	1457.2	1457.1	1457.1	1457.1
1°	1456.9	1456.9	1456.9	1457.0
1.5°	1456.6	1456.7	1456.7	1457.0
2°	1455.4	1456.0	1456.6	1456.7
2.5°	1454.1	1454.4	1455.7	1456.2
3°	1453.1	1453.9	1455.1	1455.2
3.5°	1452.4	1453.7	1454.0	1454.2
4°	1451.4	1452.9	1452.9	1453.6
4.5°	1449.3	1451.0	1451.4	1452.0
5°	1448.2	1449.2	1450.5	1451.1
5.5°	1447.1	1447.7	1449.1	1450.1
6°	1444.8	1446.7	1447.5	1449.0
6.5°	1442.6	1443.9	1445.8	1447.4
7°	1441.5	1441.9	1444.6	1446.0
7.5°	1438.8	1440.5	1441.5	1444.0
8°	1436.0	1437.9	1440.3	1442.5
8.5°	1433.0	1435.3	1438.2	1439.7
9°	1430.7	1432.7	1435.5	1438.2
9.5°	1427.9	1430.1	1432.9	1435.5
10°	1424.5	1426.8	1430.4	1432.7
10.5°	1421.6	1424.6	1427.0	1430.0
11°	1418.2	1422.0	1425.0	1427.0
11.5°	1414.8	1418.6	1422.3	1423.9
12°	1411.4	1415.2	1419.3	1421.0
12.5°	1407.4	1411.5	1415.7	1418.2
13°	1403.3	1407.7	1412.3	1414.8
13.5°	1399.5	1403.9	1408.9	1411.0
14°	1395.3	1400.2	1404.8	1407.5
14.5°	1390.9	1396.7	1400.9	1404.0
15°	1386.4	1392.2	1396.8	1399.9
15.5°	1381.6	1387.4	1392.7	1396.2
16°	1376.8	1383.1	1388.9	1391.7
16.5°	1371.8	1378.2	1384.9	1386.7
17°	1367.1	1373.5	1379.9	1382.1
17.5°	1361.9	1368.7	1374.5	1378.2
18°	1356.9	1364.1	1369.8	1374.0
18.5°	1351.6	1359.1	1365.0	1368.6
19°	1345.8	1353.7	1360.0	1363.5
19.5°	1339.5	1348.3	1354.8	1358.4
20°	1333.7	1342.6	1349.2	1353.3
20.5°	1328.2	1336.6	1343.8	1348.1
21°	1322.5	1330.5	1337.9	1343.0



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	1302.6	1312.4	1320.8	1325.1
23°	1295.9	1306.1	1314.3	1319.8
23.5°	1289.1	1299.4	1307.8	1313.2
24°	1282.2	1292.9	1301.5	1306.9
24.5°	1275.0	1286.2	1295.2	1300.9
25°	1268.0	1279.0	1288.6	1294.5
25.5°	1260.2	1272.4	1281.4	1287.5
26°	1253.4	1265.1	1274.6	1280.8
26.5°	1245.7	1257.7	1267.6	1273.7
27°	1238.0	1250.5	1260.2	1266.6
27.5°	1229.9	1243.5	1252.9	1259.6
28°	1222.1	1235.3	1245.7	1252.0
28.5°	1213.9	1227.5	1238.1	1244.6
29°	1205.2	1219.5	1230.5	1237.8
29.5°	1197.7	1211.3	1222.5	1230.2
30°	1189.3	1203.7	1214.6	1222.1
30.5°	1180.4	1195.1	1206.8	1214.4
31°	1171.4	1187.1	1198.7	1206.6
31.5°	1163.2	1178.0	1190.3	1198.5
32°	1154.1	1169.6	1181.7	1189.6
32.5°	1145.3	1160.8	1173.3	1181.2
33°	1136.5	1152.5	1164.6	1173.1
33.5°	1127.7	1144.1	1155.8	1164.4
34°	1117.9	1134.9	1147.1	1155.4
34.5°	1108.9	1125.4	1137.9	1146.2
35°	1099.7	1116.6	1129.2	1137.8
35.5°	1089.9	1107.1	1120.1	1129.0
36°	1080.3	1097.9	1110.7	1119.8
36.5°	1070.6	1088.3	1102.2	1110.3
37°	1061.0	1078.6	1093.0	1101.2
37.5°	1051.5	1069.1	1083.8	1092.2
38°	1041.5	1059.5	1073.5	1083.3
38.5°	1030.5	1049.9	1063.4	1073.2
39°	1020.1	1039.8	1053.2	1062.8
39.5°	1010.0	1029.5	1043.3	1052.5
40°	999.8	1019.5	1033.8	1042.6
40.5°	989.6	1009.4	1024.1	1033.2
41°	978.9	999.0	1013.6	1023.2
41.5°	968.6	988.3	1003.6	1012.7
42°	957.6	977.9	993.3	1002.8
42.5°	946.9	967.6	982.6	992.8
43°	936.2	956.8	972.1	982.2
43.5°	925.5	946.1	961.8	971.3



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	892.6	914.3	929.8	939.4
45.5°	881.9	903.2	918.6	929.0
46°	870.8	892.4	907.8	917.8
46.5°	859.8	881.4	896.7	906.4
47°	849.1	870.4	885.9	895.3
47.5°	837.6	859.4	874.9	884.6
48°	826.6	847.7	863.5	873.9
48.5°	815.1	836.9	852.6	862.4
49°	804.0	825.8	841.5	851.7
49.5°	792.9	814.2	830.1	840.3
50°	781.3	802.9	818.6	829.0
50.5°	770.1	791.8	807.2	817.3
51°	759.3	780.1	796.1	806.2
51.5°	747.9	769.1	785.0	794.6
52°	736.2	757.5	773.0	783.5
52.5°	724.9	746.0	761.8	771.7
53°	713.4	734.6	750.0	760.2
53.5°	702.3	723.1	738.7	748.7
54°	691.0	711.6	727.1	737.2
54.5°	679.8	700.2	715.5	725.4
55°	668.6	688.8	704.0	713.5
55.5°	656.4	677.5	692.2	702.2
56°	645.1	665.2	680.4	690.2
56.5°	634.0	654.2	669.1	678.6
57°	622.8	642.6	657.4	667.3
57.5°	611.1	631.1	645.9	655.2
58°	599.8	619.0	633.8	643.2
58.5°	588.3	607.6	622.1	631.8
59°	577.5	595.9	610.4	619.8
59.5°	565.7	584.4	598.9	608.1
60°	554.4	572.7	587.2	596.0
60.5°	542.9	561.3	575.3	584.3
61°	531.9	549.8	563.4	572.5
61.5°	520.4	538.2	551.6	560.8
62°	509.2	526.7	539.9	548.9
62.5°	497.9	515.4	528.1	537.0
63°	487.0	503.7	516.3	525.2
63.5°	475.6	492.1	504.7	513.5
64°	464.1	480.6	492.8	501.5
64.5°	453.1	469.1	481.4	489.3
65°	442.3	457.4	469.7	477.3
65.5°	430.9	446.2	457.7	465.2
66°	420.3	435.1	446.1	453.1



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	387.2	400.8	411.3	417.8
68°	376.2	389.2	399.5	406.3
68.5°	365.2	378.1	387.6	394.4
69°	354.8	366.6	376.4	382.5
69.5°	343.9	355.3	364.7	370.9
70°	333.1	344.3	353.3	359.1
70.5°	322.4	333.2	341.7	347.4
71°	311.8	322.0	330.4	335.9
71.5°	301.3	310.9	318.8	324.3
72°	290.7	299.9	307.3	312.9
72.5°	280.2	289.1	295.8	301.4
73°	269.8	278.0	284.7	289.7
73.5°	259.9	267.4	273.6	278.0
74°	249.6	256.4	262.5	266.9
74.5°	239.3	245.7	251.3	255.6
75°	229.2	234.8	240.1	244.4
75.5°	219.3	224.5	229.0	233.0
76°	209.7	214.0	218.6	222.0
76.5°	199.8	203.8	207.5	211.1
77°	190.3	193.4	197.0	200.2
77.5°	180.6	183.5	186.3	189.2
78°	171.3	173.2	176.0	178.8
78.5°	162.2	163.6	165.3	168.0
79°	153.1	154.0	155.3	157.5
79.5°	144.3	144.5	145.6	147.2
80°	135.9	135.6	136.1	137.5
80.5°	127.6	126.6	126.7	127.4
81°	119.3	117.7	117.2	117.6
81.5°	111.0	108.7	107.8	108.1
82°	102.8	99.8	98.3	98.7
82.5°	95.0	91.6	89.4	89.2
83°	87.3	83.5	81.1	80.8
83.5°	80.0	75.6	72.7	72.3
84°	73.0	67.9	64.7	64.2
84.5°	66.4	60.8	57.0	56.2
85°	59.9	53.9	49.9	48.9
85.5°	54.0	47.4	42.9	42.5
86°	48.3	41.4	36.4	36.1
86.5°	42.9	35.7	30.4	29.8
87°	37.9	30.4	24.8	23.4
87.5°	33.3	25.6	20.9	18.0
88°	29.1	21.4	17.0	13.0
88.5°	25.3	18.6	13.1	8.7



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	16.2	10.1	3.7	2.8
90.5°	14.6	7.4	2.5	1.5
91°	13.0	6.1	1.8	0.3
91.5°	11.4	5.1	1.5	0.2
92°	9.8	4.4	1.3	0.2
92.5°	8.3	4.0	1.1	0.1
93°	7.5	3.7	1.0	0.1
93.5°	7.0	3.4	1.0	0.2
94°	6.5	3.2	0.9	0.2
94.5°	6.2	3.0	0.9	0.3
95°	5.9	2.9	0.9	0.3
95.5°	5.6	2.8	0.9	0.4
96°	5.3	2.8	0.9	0.4
96.5°	5.0	2.8	0.9	0.5
97°	4.9	2.7	0.8	0.5
97.5°	4.8	2.6	0.8	0.6
98°	4.8	2.5	0.8	0.6
98.5°	4.8	2.4	0.8	0.7
99°	4.7	2.3	0.8	0.7
99.5°	4.7	2.3	0.9	0.8
100°	4.6	2.3	0.9	0.9
100.5°	4.5	2.2	1.0	1.0
101°	4.3	2.2	1.1	1.1
101.5°	4.1	2.2	1.1	1.2
102°	4.0	2.2	1.2	1.3
102.5°	3.9	2.1	1.2	1.3
103°	3.7	2.0	1.3	1.4
103.5°	3.6	2.0	1.4	1.5
104°	3.5	1.9	1.4	1.5
104.5°	3.5	1.8	1.5	1.5
105°	3.4	1.7	1.5	1.5
105.5°	3.3	1.7	1.5	1.5
106°	3.3	1.7	1.7	1.5
106.5°	3.2	1.6	1.9	1.5
107°	3.0	1.5	2.0	1.5
107.5°	2.9	1.5	1.9	1.5
108°	2.8	1.5	1.9	1.5
108.5°	2.7	1.5	1.9	1.5
109°	2.6	1.5	1.8	1.5
109.5°	2.5	1.5	1.8	1.6
110°	2.4	1.5	1.8	1.6
110.5°	2.3	1.5	1.8	1.6
111°	2.2	1.6	1.8	1.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	2.1	1.6	1.8	1.6
113°	2.1	1.7	1.9	1.6
113.5°	2.0	1.7	1.9	1.6
114°	1.9	1.8	1.9	1.7
114.5°	1.8	1.8	1.9	1.7
115°	1.8	1.9	1.9	1.7
115.5°	1.8	1.9	1.9	1.7
116°	1.8	1.9	1.9	1.7
116.5°	1.8	2.0	1.9	1.7
117°	1.8	2.1	1.9	1.7
117.5°	1.9	2.2	1.9	1.7
118°	2.0	2.3	1.9	1.7
118.5°	2.0	2.4	2.0	1.7
119°	2.0	2.5	2.0	1.8
119.5°	2.1	2.4	2.0	1.8
120°	2.1	2.4	2.0	1.8
120.5°	2.2	2.4	2.1	1.8
121°	2.2	2.4	2.1	1.8
121.5°	2.2	2.4	2.1	1.9
122°	2.2	2.4	2.1	1.9
122.5°	2.2	2.4	2.1	1.9
123°	2.2	2.3	2.1	1.9
123.5°	2.3	2.3	2.1	1.9
124°	2.3	2.2	2.2	1.9
124.5°	2.4	2.2	2.2	2.0
125°	2.5	2.3	2.2	2.0
125.5°	2.6	2.3	2.2	2.0
126°	2.7	2.5	2.3	2.0
126.5°	2.8	2.5	2.3	2.0
127°	2.9	2.6	2.3	2.1
127.5°	3.0	2.6	2.3	2.1
128°	3.1	2.6	2.3	2.1
128.5°	3.1	2.6	2.4	2.1
129°	3.0	2.6	2.4	2.1
129.5°	3.0	2.6	2.4	2.1
130°	3.0	2.6	2.4	2.2
130.5°	3.0	2.6	2.3	2.2
131°	2.9	2.6	2.2	2.2
131.5°	2.8	2.6	2.2	2.2
132°	2.8	2.6	2.2	2.2
132.5°	2.7	2.6	2.3	2.2
133°	2.7	2.6	2.4	2.2
133.5°	2.7	2.6	2.5	2.2



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
135°	2.7	2.6	2.4	2.3
135.5°	2.7	2.6	2.4	2.3
136°	2.7	2.6	2.4	2.2
136.5°	2.7	2.5	2.4	2.2
137°	2.8	2.5	2.4	2.2
137.5°	2.8	2.5	2.3	2.3
138°	2.8	2.5	2.3	2.3
138.5°	2.8	2.6	2.3	2.3
139°	2.8	2.6	2.3	2.3
139.5°	2.8	2.6	2.3	2.3
140°	2.8	2.7	2.4	2.3
140.5°	2.8	2.7	2.5	2.3
141°	2.8	2.7	2.5	2.3
141.5°	2.8	2.7	2.5	2.3
142°	2.8	2.7	2.4	2.3
142.5°	2.8	2.7	2.4	2.3
143°	2.8	2.7	2.4	2.3
143.5°	2.8	2.7	2.4	2.3
144°	2.8	2.8	2.4	2.3
144.5°	2.8	2.8	2.4	2.3
145°	2.8	2.8	2.4	2.3
145.5°	2.8	2.8	2.4	2.3
146°	2.8	2.8	2.4	2.3
146.5°	2.8	2.8	2.4	2.3
147°	2.9	2.8	2.4	2.3
147.5°	2.9	2.8	2.4	2.3
148°	2.9	2.9	2.4	2.3
148.5°	2.9	2.9	2.4	2.3
149°	2.9	2.9	2.4	2.2
149.5°	2.9	2.9	2.4	2.2
150°	2.9	2.9	2.4	2.2
150.5°	3.0	2.9	2.4	2.3
151°	3.0	2.9	2.3	2.1
151.5°	3.0	2.9	2.3	2.0
152°	3.0	2.9	2.3	2.0
152.5°	3.0	2.8	2.3	2.1
153°	3.0	2.8	2.2	2.0
153.5°	3.0	2.7	2.1	1.8
154°	3.0	2.7	2.0	1.7
154.5°	3.0	2.7	2.0	1.7
155°	3.0	2.6	2.0	1.7
155.5°	3.0	2.5	1.9	1.7
156°	3.1	2.4	1.8	1.6



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
157.5°	3.1	2.4	1.7	1.5
158°	3.1	2.4	1.7	1.5
158.5°	3.1	2.3	1.7	1.5
159°	3.1	2.3	1.7	1.5
159.5°	3.1	2.3	1.6	1.5
160°	3.1	2.3	1.6	1.5
160.5°	3.2	2.3	1.6	1.5
161°	3.2	2.3	1.6	1.5
161.5°	3.2	2.3	1.6	1.6
162°	3.2	2.3	1.6	1.6
162.5°	3.2	2.2	1.6	1.6
163°	3.1	2.1	1.6	1.6
163.5°	3.2	2.0	1.6	1.6
164°	3.2	2.0	1.6	1.6
164.5°	2.8	2.0	1.6	1.6
165°	2.7	1.9	1.6	1.6
165.5°	2.9	1.8	1.6	1.6
166°	3.0	1.7	1.6	1.6
166.5°	2.6	1.7	1.6	1.6
167°	2.4	1.7	1.6	1.7
167.5°	2.8	1.9	1.6	1.7
168°	3.0	2.2	1.7	1.7
168.5°	2.8	2.1	1.7	1.7
169°	2.7	2.2	1.8	1.7
169.5°	2.8	2.3	1.8	1.8
170°	2.7	2.3	2.1	1.8
170.5°	2.7	2.3	2.2	2.0
171°	2.9	2.6	2.2	2.3
171.5°	2.9	2.6	2.4	2.3
172°	2.9	2.6	2.5	2.3
172.5°	2.9	2.7	2.6	2.5
173°	2.8	2.7	2.6	2.5
173.5°	2.8	2.7	2.6	2.5
174°	2.8	2.7	2.7	2.5
174.5°	2.8	2.7	2.7	2.6
175°	2.8	2.7	2.7	2.7
175.5°	2.8	2.7	2.7	2.7
176°	2.8	2.7	2.7	2.7
176.5°	2.7	2.7	2.7	2.7
177°	2.7	2.7	2.7	2.7
177.5°	2.7	2.7	2.7	2.7
178°	2.7	2.7	2.7	2.7
178.5°	2.7	2.7	2.7	2.8



TEST NUMBER: P563543

CATALOG NUMBER: 4NWS3C3-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	2.5	2.5	2.5	2.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







21.5°	1337.4	1340.6	1340.2	1337.8	1332.9	1327.1	1321.0	1315.8	1311.4	1309.2	1308.4
22°	1331.0	1334.5	1334.4	1331.6	1326.8	1320.7	1313.9	1308.6	1304.7	1301.8	1301.1



44°	960.7	964.3	959.8	949.6	933.1	912.9	892.3	874.7	861.7	855.3	856.2
44.5°	950.1	953.1	949.4	938.6	922.1	901.5	881.3	863.4	850.4	844.1	844.1



66.5°	441.2	445.4	444.3	438.1	428.1	414.2	401.4	390.1	381.9	377.2	375.9
67°	429.4	433.2	432.8	427.2	417.2	404.1	391.9	380.8	372.5	368.1	367.2



89°	5.4	10.6	20.3	31.3	41.7	48.8	54.6	58.0	59.2	58.7	56.6
89.5°	4.0	7.5	16.6	27.3	37.5	45.2	51.0	53.9	55.2	54.8	52.7



111.5°	1.6	1.6	1.3	1.2	1.6	2.4	3.5	4.5	5.3	5.5	5.3
112°	1.6	1.6	1.3	1.2	1.5	2.3	3.3	4.3	5.0	5.2	5.1



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



156.5°	1.5	2.4	2.8	2.7	2.7	2.7	2.9	3.2	3.4	3.5	3.5
157°	1.5	2.3	2.8	2.7	2.7	2.7	2.9	3.1	3.3	3.4	3.4



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





21.5°	1309.6	1313.0	1316.1	1320.0	1323.7	1325.3	1325.4	1323.7	1319.6	1313.4	1305.6
22°	1302.4	1305.5	1309.5	1313.8	1317.8	1319.1	1319.4	1317.7	1313.2	1306.9	1298.8



44°	862.4	875.2	891.8	907.4	921.3	931.3	935.2	933.6	926.8	914.3	896.1
44.5°	851.3	864.4	880.6	895.9	910.2	920.3	923.7	923.0	916.2	903.3	884.7



66.5°	378.6	384.4	392.3	400.3	407.3	412.0	411.0	410.2	405.1	397.9	387.4
67°	369.6	374.8	382.3	389.7	396.0	399.8	399.6	398.5	393.6	386.6	376.6



89°	52.8	47.4	40.7	31.0	20.9	11.1	4.5	0.7	3.7	10.3	17.0
89.5°	49.3	44.1	36.9	27.7	17.9	9.0	3.5	0.6	2.7	7.8	15.4



111.5°	4.6	3.6	2.7	2.0	2.0	2.4	3.0	2.7	3.1	2.3	2.7
112°	4.4	3.5	2.6	2.0	2.0	2.5	3.0	2.8	3.2	2.4	2.7



134°	2.9	3.3	3.8	4.7	4.8	3.8	3.3	3.1	3.9	4.0	3.7
134.5°	3.0	3.4	3.9	4.8	4.7	3.7	3.3	3.1	3.8	4.1	3.7



156.5°	3.4	3.3	3.2	3.3	3.3	3.1	2.9	2.6	2.7	3.1	3.4
157°	3.4	3.2	3.2	3.3	3.2	3.0	2.8	2.6	2.7	3.0	3.4



179°	2.6	2.4	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7
179.5°	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3





21.5°	1297.0	1287.9	1280.4	1274.2	1271.1	1270.4	1272.2	1277.7	1285.7	1295.8	1306.1
22°	1290.2	1280.3	1272.3	1266.8	1263.5	1262.0	1264.5	1269.5	1277.9	1288.2	1299.0



44°	875.6	853.1	833.1	817.2	807.5	804.9	809.9	822.6	841.9	865.1	891.1
44.5°	864.8	841.5	821.7	805.9	795.8	793.2	798.5	811.4	830.6	854.2	879.5



66.5°	375.9	363.9	353.5	345.8	341.3	340.9	344.3	351.8	362.9	377.2	392.9
67°	365.3	353.8	344.2	336.9	332.7	332.2	335.2	342.9	353.4	367.0	382.5



89°	24.7	31.7	37.3	41.3	43.9	45.0	44.8	43.2	40.2	35.5	29.2
89.5°	22.1	28.8	34.3	38.3	40.9	41.9	41.7	40.0	36.9	32.2	26.0



111.5°	4.3	6.1	7.5	8.5	9.0	9.3	9.1	8.2	6.9	5.5	3.8
112°	4.1	6.0	7.4	8.3	8.8	9.1	8.9	8.0	6.8	5.4	3.6



134°	3.5	3.0	2.6	2.5	2.3	2.3	2.3	2.4	2.4	2.6	3.0
134.5°	3.6	3.0	2.7	2.5	2.4	2.3	2.4	2.4	2.5	2.7	3.0



156.5°	3.7	3.6	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1
157°	3.8	3.6	3.5	3.4	3.3	3.3	3.3	3.3	3.2	3.2	3.1



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





21.5°	1315.9	1325.0	1332.1	1337.4
22°	1309.0	1319.3	1326.8	1331.0



44°	914.8	935.8	950.8	960.7
44.5°	904.4	924.7	940.4	950.1



66.5°	409.0	423.6	434.5	441.2
67°	398.0	412.2	423.1	429.4



89°	21.9	15.8	9.2	5.4
89.5°	18.8	12.9	5.5	4.0



111.5°	2.2	1.6	1.8	1.6
112°	2.1	1.6	1.8	1.6



134°	2.7	2.5	2.5	2.3
134.5°	2.7	2.6	2.4	2.3



156.5°	3.1	2.4	1.7	1.5
157°	3.1	2.4	1.7	1.5



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



(END OF REPORT)