

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: P563561

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

Issue Date: 7/18/2022

Test Information

Test Method: LM-79-08
Report Number: P563561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (s22030032e-01)
Test Lab: INNOVATION CENTER
Issue Date: 7/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4NWS3C3MS-UNV-LOW-3500K
Description: 4 FOOT NWS SELETABLE WRAP AT 3500K AND LOW LUMEN SETTING
Light Source: -
Ballast/Driver:

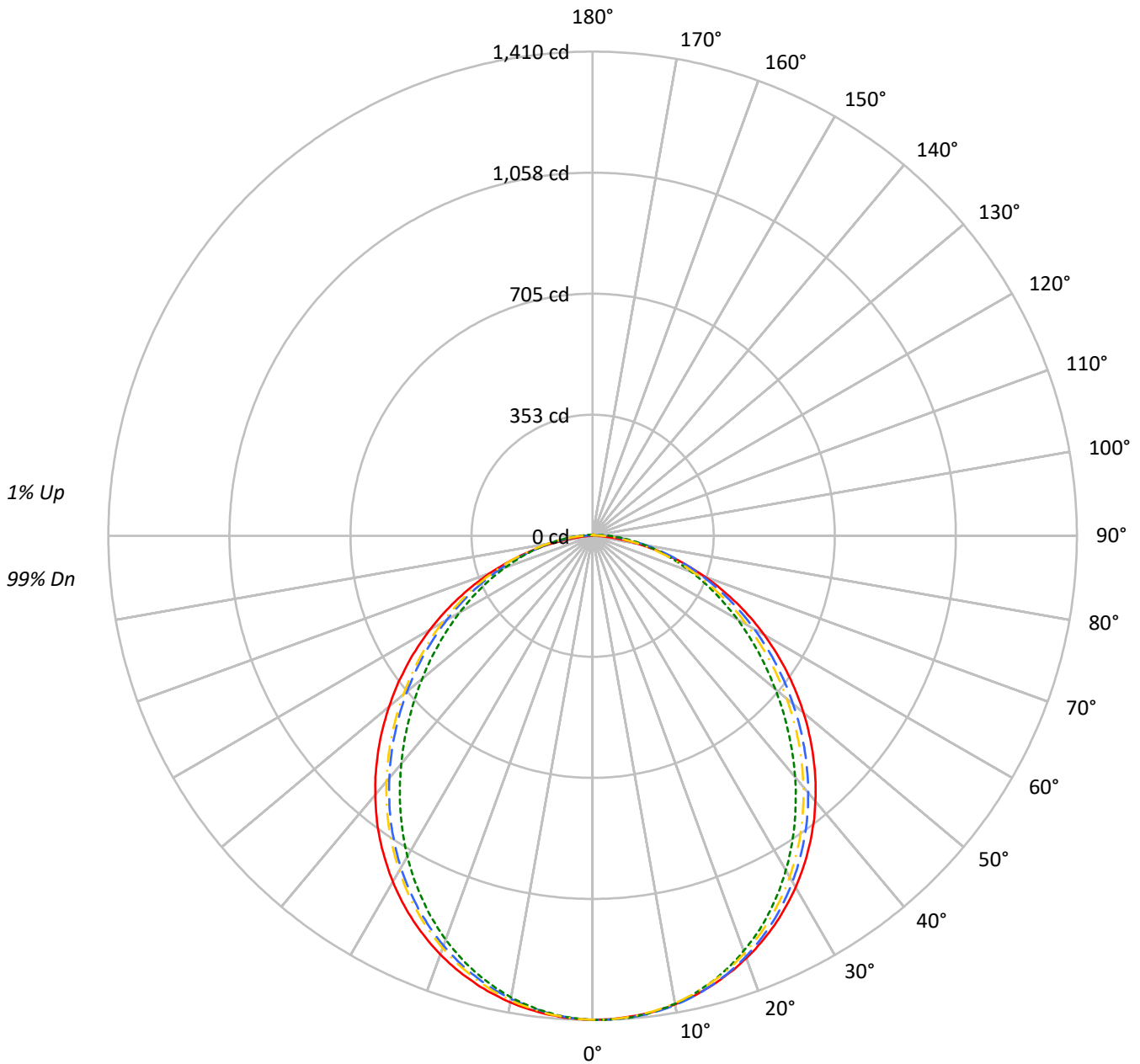
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3675.0 lumens
Efficiency: N/A
Efficacy: 128.0 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): 28.7
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°	8568	8568	8568	8568
5°	8547	8439	8532	8376
10°	8520	8270	8484	8157
15°	8473	8052	8415	7887
20°	8403	7788	8328	7578
25°	8316	7482	8212	7220
30°	8197	7124	8068	6829
35°	8048	6723	7893	6398
40°	7864	6287	7680	5944
45°	7651	5830	7431	5475
50°	7398	5364	7138	5009
55°	7102	4919	6800	4553
60°	6764	4474	6410	4106
65°	6356	4021	5938	3652
70°	5839	3569	5337	3182
75°	5153	3098	4525	2679
80°	4165	2591	3389	2151
85°	2661	2068	1714	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.6
10°-20°	377.6	10.3
20°-30°	560.8	15.3
30°-40°	653.7	17.8
40°-50°	647.1	17.6
50°-60°	555.7	15.1
60°-70°	406.7	11.1
70°-80°	230.9	6.3
80°-90°	76.9	2.1
90°-100°	13.9	0.4
100°-110°	5.9	0.2
110°-120°	3.5	0.1
120°-130°	2.5	0.1
130°-140°	2.2	0.1
140°-150°	2.1	0.1
150°-160°	1.4	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	1071.4	29.2
0°-40°	1725.1	46.9
0°-60°	2927.9	79.7
0°-90°	3642.4	99.1
90°-120°	23.3	0.6
90°-150°	30.1	0.8
90°-180°	33.0	0.9
0°-180°	3675.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1410	1410	1410	1410	1410	
5°	1403	1406	1401	1395	1403	133
15°	1354	1344	1345	1316	1354	382
25°	1252	1213	1236	1171	1252	577
35°	1100	1025	1079	975	1100	688
45°	908	805	882	756	908	700
55°	690	588	661	545	690	617
65°	462	392	431	356	462	457
75°	236	224	208	194	236	250
85°	47	93	30	74	47	56
90°	3	49	0	38	3	2
95°	0	24	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°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
0.5°	1409.2	1409.2	1409.3	1409.5	1409.6	1409.7	1409.8	1409.9	1409.9	1409.9	1409.9
1°	1409.0	1409.2	1409.4	1409.7	1409.9	1410.0	1410.0	1410.0	1409.5	1409.1	1409.4
1.5°	1409.1	1409.6	1409.7	1409.2	1409.0	1409.2	1409.7	1410.0	1409.6	1410.2	1410.3
2°	1408.8	1409.2	1409.2	1409.2	1409.5	1409.9	1410.2	1410.2	1409.5	1409.6	1409.8
2.5°	1408.3	1408.6	1408.7	1408.8	1408.9	1408.4	1408.6	1408.5	1409.9	1409.0	1408.5
3°	1407.3	1407.6	1408.2	1408.5	1408.8	1408.9	1409.2	1409.5	1409.0	1408.8	1408.9
3.5°	1406.4	1407.1	1407.6	1408.7	1408.3	1408.6	1408.6	1408.2	1408.6	1407.7	1407.3
4°	1405.8	1407.0	1406.6	1407.9	1407.6	1407.8	1407.7	1407.5	1406.8	1408.3	1407.0
4.5°	1404.2	1405.4	1405.8	1406.6	1407.3	1407.2	1406.6	1407.3	1406.7	1406.8	1405.5
5°	1403.3	1404.4	1404.9	1405.4	1406.2	1406.2	1404.9	1405.4	1405.8	1405.7	1404.6
5.5°	1402.4	1403.5	1404.0	1404.3	1404.7	1404.3	1403.9	1403.8	1404.4	1404.1	1402.8
6°	1401.3	1402.2	1402.5	1403.2	1403.9	1403.2	1402.9	1402.5	1402.6	1402.2	1400.8
6.5°	1399.8	1401.0	1401.2	1401.6	1402.4	1401.8	1402.0	1401.0	1401.0	1400.9	1399.4
7°	1398.4	1399.1	1400.2	1399.9	1400.0	1399.2	1400.4	1399.1	1398.9	1398.8	1397.7
7.5°	1396.5	1397.2	1398.2	1399.0	1398.8	1398.1	1397.8	1397.2	1396.7	1395.6	1395.7
8°	1395.0	1395.0	1396.6	1396.8	1396.7	1396.2	1395.7	1395.3	1394.8	1394.0	1393.6
8.5°	1392.4	1392.7	1394.8	1394.4	1394.8	1394.4	1393.5	1393.0	1392.1	1391.5	1390.5
9°	1390.9	1392.1	1392.3	1392.8	1392.8	1392.3	1390.8	1390.6	1389.5	1389.9	1387.9
9.5°	1388.3	1389.5	1390.6	1390.3	1390.5	1389.3	1387.7	1387.7	1387.0	1385.6	1385.1
10°	1385.5	1387.1	1387.9	1388.0	1387.8	1386.8	1385.2	1384.3	1383.9	1384.1	1382.7
10.5°	1383.0	1384.3	1385.6	1385.7	1385.1	1384.0	1382.2	1381.2	1380.7	1380.5	1379.3
11°	1380.1	1381.0	1382.6	1382.7	1382.2	1381.5	1378.7	1378.4	1378.1	1377.1	1376.1
11.5°	1377.1	1378.9	1379.6	1380.0	1378.8	1378.4	1375.7	1375.3	1374.4	1373.7	1372.5
12°	1374.2	1375.9	1377.2	1377.3	1375.9	1374.8	1372.9	1371.8	1369.8	1370.2	1368.2
12.5°	1371.5	1372.8	1374.1	1374.1	1372.3	1371.6	1369.5	1368.0	1366.4	1366.0	1364.9
13°	1368.3	1370.1	1371.0	1370.5	1368.5	1368.2	1365.5	1364.3	1362.8	1361.4	1360.8
13.5°	1364.6	1366.8	1367.8	1367.4	1365.2	1364.5	1361.0	1360.0	1358.6	1357.0	1355.8
14°	1361.2	1363.2	1364.1	1364.2	1361.5	1359.9	1357.4	1355.7	1354.2	1352.4	1351.8
14.5°	1357.8	1359.7	1360.5	1360.5	1357.3	1356.2	1353.8	1351.2	1349.0	1348.5	1346.7
15°	1353.9	1356.1	1356.7	1356.3	1353.9	1352.2	1349.1	1346.8	1344.7	1343.9	1342.8
15.5°	1350.3	1352.4	1352.5	1351.9	1350.1	1348.1	1344.0	1342.5	1339.8	1339.2	1337.4
16°	1345.9	1348.6	1348.9	1348.0	1345.5	1343.2	1339.6	1337.4	1335.3	1333.6	1332.1
16.5°	1341.1	1344.4	1345.1	1344.0	1341.0	1338.5	1334.6	1332.0	1329.9	1327.8	1327.3
17°	1336.6	1340.3	1340.3	1339.8	1337.0	1333.8	1329.8	1326.7	1324.2	1323.1	1322.4
17.5°	1332.9	1335.6	1336.0	1334.9	1332.2	1328.7	1323.9	1321.4	1318.3	1317.7	1316.2
18°	1328.8	1330.9	1331.6	1330.2	1327.0	1323.7	1319.0	1315.9	1312.9	1311.3	1310.6
18.5°	1323.6	1326.9	1327.3	1325.7	1322.2	1318.6	1313.5	1309.9	1307.5	1305.4	1304.6
19°	1318.7	1322.3	1322.7	1320.6	1317.3	1313.0	1308.3	1304.1	1301.1	1299.2	1298.9
19.5°	1313.7	1317.0	1317.2	1315.5	1311.7	1307.1	1302.1	1298.3	1294.6	1293.7	1291.5
20°	1308.8	1311.8	1311.8	1310.2	1306.3	1301.4	1295.7	1291.8	1288.6	1286.2	1285.6
20.5°	1303.8	1306.9	1306.8	1304.9	1300.9	1295.9	1289.7	1285.3	1282.2	1279.9	1278.7
21°	1298.8	1301.9	1301.6	1299.3	1294.7	1289.7	1283.8	1278.8	1275.7	1272.8	1272.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
22.5°	1281.5	1284.8	1285.0	1281.9	1277.1	1271.0	1264.1	1258.6	1254.5	1252.1	1250.6
23°	1276.4	1279.2	1278.9	1275.9	1271.0	1264.7	1257.4	1251.5	1247.0	1245.5	1243.7
23.5°	1270.0	1273.4	1273.0	1269.8	1264.6	1257.8	1250.6	1244.0	1239.5	1237.2	1236.0
24°	1263.9	1267.4	1267.2	1263.3	1257.9	1251.0	1242.9	1236.5	1231.9	1229.6	1228.6
24.5°	1258.1	1261.2	1260.7	1257.2	1250.9	1243.9	1236.6	1229.5	1224.1	1221.6	1220.3
25°	1251.9	1255.2	1254.2	1250.6	1244.5	1236.7	1229.0	1221.8	1216.2	1213.1	1212.5
25.5°	1245.2	1248.5	1247.8	1243.8	1238.2	1229.6	1221.2	1213.8	1208.4	1205.4	1204.1
26°	1238.6	1241.4	1241.1	1236.5	1231.0	1221.9	1213.2	1205.4	1199.6	1196.3	1196.1
26.5°	1231.8	1235.1	1233.6	1230.2	1223.1	1214.4	1205.1	1197.5	1191.5	1188.4	1187.2
27°	1225.0	1228.8	1226.9	1222.6	1215.7	1206.9	1197.3	1189.2	1183.1	1179.2	1179.2
27.5°	1218.2	1221.7	1220.4	1215.2	1208.3	1198.7	1190.0	1180.7	1173.8	1171.2	1170.3
28°	1210.8	1214.7	1213.5	1208.2	1200.7	1190.9	1180.6	1172.4	1165.4	1162.1	1161.0
28.5°	1203.7	1207.4	1206.2	1201.1	1193.4	1183.2	1172.5	1163.8	1156.0	1152.2	1151.7
29°	1197.1	1200.4	1198.9	1193.3	1185.1	1174.8	1164.3	1154.8	1148.0	1144.0	1142.9
29.5°	1189.7	1193.2	1191.2	1186.0	1177.2	1166.5	1156.0	1145.9	1137.8	1134.5	1134.5
30°	1181.9	1185.0	1183.6	1177.6	1169.1	1158.0	1146.7	1136.8	1128.9	1124.8	1125.1
30.5°	1174.5	1177.4	1175.9	1170.3	1160.9	1149.1	1137.9	1127.6	1118.6	1115.6	1114.9
31°	1166.9	1170.3	1167.9	1162.4	1153.1	1140.9	1128.6	1118.2	1110.2	1106.1	1105.1
31.5°	1159.0	1162.5	1160.2	1153.8	1144.7	1132.4	1119.4	1108.5	1100.4	1096.1	1095.1
32°	1150.5	1153.9	1151.9	1145.2	1135.7	1123.0	1110.4	1099.3	1090.6	1085.9	1085.6
32.5°	1142.4	1145.7	1143.7	1136.6	1126.9	1113.9	1101.2	1089.8	1081.5	1076.0	1075.8
33°	1134.5	1137.8	1135.3	1128.8	1118.2	1105.2	1092.0	1079.9	1071.3	1066.3	1066.0
33.5°	1126.1	1129.3	1127.0	1120.4	1109.6	1096.1	1082.5	1070.4	1060.9	1055.9	1055.6
34°	1117.4	1121.2	1118.5	1111.3	1100.7	1086.4	1072.4	1060.2	1050.8	1045.5	1045.4
34.5°	1108.5	1112.5	1109.9	1102.6	1091.8	1077.0	1062.5	1049.5	1040.3	1035.5	1034.9
35°	1100.3	1104.0	1101.5	1093.9	1082.3	1067.6	1053.0	1039.5	1029.5	1024.9	1024.8
35.5°	1091.8	1095.1	1093.0	1085.0	1072.8	1057.8	1042.9	1029.4	1019.2	1014.6	1014.3
36°	1082.9	1086.8	1083.4	1076.0	1063.7	1048.1	1033.0	1019.2	1008.6	1004.1	1003.6
36.5°	1073.8	1077.3	1074.6	1066.3	1054.6	1038.6	1022.9	1008.6	998.2	992.8	993.4
37°	1065.0	1068.1	1065.4	1057.3	1044.9	1029.0	1013.0	998.5	987.0	982.2	982.6
37.5°	1056.3	1058.9	1056.2	1048.1	1035.1	1018.9	1002.5	987.9	976.7	971.5	971.6
38°	1047.7	1049.7	1047.3	1038.3	1025.5	1008.8	992.0	977.2	966.2	960.5	960.3
38.5°	1037.9	1040.5	1037.1	1028.8	1015.5	998.6	981.6	966.4	955.5	950.3	949.8
39°	1027.8	1031.2	1027.9	1019.1	1005.6	988.6	971.3	955.7	944.9	938.9	938.5
39.5°	1017.9	1022.0	1018.4	1009.5	995.4	978.0	960.9	945.0	933.4	928.2	928.2
40°	1008.3	1012.1	1009.0	999.2	985.5	967.4	949.8	934.3	922.4	917.0	917.1
40.5°	999.2	1002.3	999.3	989.6	975.3	957.2	939.2	923.3	911.2	905.9	905.5
41°	989.5	992.4	989.4	979.5	965.1	946.6	928.5	912.5	900.3	894.9	894.3
41.5°	979.4	982.4	979.1	969.8	954.8	936.2	917.5	901.2	888.6	883.4	883.4
42°	969.8	973.1	969.4	959.1	944.7	925.9	907.3	890.5	878.1	872.9	872.1
42.5°	960.1	963.0	959.2	949.5	933.7	915.1	896.4	879.6	867.1	861.4	860.9
43°	949.9	952.8	949.1	938.5	923.3	904.2	885.4	868.4	855.9	850.5	849.9
43.5°	939.3	942.8	938.8	928.7	913.3	893.6	874.3	857.3	844.6	838.9	838.9



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
45°	908.5	911.7	907.6	896.9	881.5	861.1	841.5	824.0	811.0	805.3	805.1
45.5°	898.4	901.3	897.1	886.2	870.2	850.2	830.5	812.8	800.2	793.9	793.9
46°	887.6	890.8	886.7	875.7	859.5	839.2	819.1	801.8	789.4	782.3	783.0
46.5°	876.5	879.9	875.9	865.0	848.6	828.2	807.9	790.6	777.6	771.8	772.0
47°	865.8	869.5	865.9	854.3	838.0	817.2	796.9	779.3	766.3	760.7	760.4
47.5°	855.5	858.7	854.9	844.0	827.4	806.3	786.2	767.9	755.3	749.6	749.2
48°	845.1	848.1	844.0	833.3	816.7	795.2	775.1	757.1	744.6	738.1	738.6
48.5°	834.0	836.9	832.9	822.2	805.6	784.3	764.3	746.1	733.0	727.4	727.6
49°	823.7	827.0	822.0	810.7	794.5	773.4	753.0	735.2	722.3	716.1	716.1
49.5°	812.7	815.6	812.0	800.3	783.3	762.3	742.2	724.1	711.1	705.1	705.5
50°	801.7	805.0	800.7	789.6	772.2	751.1	731.4	713.0	700.7	694.0	694.3
50.5°	790.4	793.9	789.7	778.9	761.5	740.3	720.2	702.0	689.1	683.3	683.1
51°	779.6	783.0	778.4	767.1	750.6	729.3	709.2	691.4	679.0	672.3	671.9
51.5°	768.5	771.9	767.5	756.5	739.6	718.3	698.0	680.4	667.5	662.3	661.7
52°	757.7	761.1	756.8	745.4	728.4	707.6	687.4	669.8	657.2	650.8	650.9
52.5°	746.3	749.5	745.1	734.2	717.3	696.2	676.4	659.0	646.7	640.5	640.4
53°	735.2	738.6	734.3	723.0	706.2	685.2	665.4	648.2	636.1	629.5	629.3
53.5°	724.0	727.2	722.9	712.0	695.0	674.4	654.7	637.6	624.7	619.4	618.7
54°	712.9	715.9	711.9	701.2	684.1	663.4	644.0	626.8	614.5	608.4	608.6
54.5°	701.5	704.9	700.5	689.9	673.5	652.3	632.8	616.0	603.7	598.0	597.9
55°	690.0	693.7	689.7	678.8	662.0	641.3	622.1	605.4	593.6	588.4	587.2
55.5°	679.1	682.3	678.1	667.8	651.4	630.8	611.4	594.6	582.8	577.5	576.6
56°	667.5	670.9	667.2	656.5	640.4	620.3	601.2	584.1	572.7	567.0	566.6
56.5°	656.3	659.8	655.9	645.5	629.5	609.3	590.3	573.9	562.5	556.9	556.5
57°	645.4	648.3	644.4	634.2	618.1	598.4	579.6	563.5	551.9	546.8	546.2
57.5°	633.6	637.4	632.8	623.2	607.5	587.9	569.2	553.0	542.1	536.6	535.9
58°	622.1	625.6	622.3	611.6	595.8	577.2	558.9	543.1	531.9	526.1	526.3
58.5°	611.0	614.3	610.5	600.9	585.3	566.2	548.2	532.6	521.9	516.4	516.0
59°	599.4	603.3	599.3	589.7	574.4	555.6	537.7	522.3	512.2	507.0	506.0
59.5°	588.1	591.4	588.0	578.7	563.6	545.0	527.6	512.7	502.3	497.4	495.7
60°	576.4	580.1	577.0	567.4	552.5	534.4	517.1	502.9	492.5	487.5	485.9
60.5°	565.1	568.4	565.5	556.4	542.3	524.0	507.4	493.2	482.6	477.5	476.2
61°	553.7	556.8	554.1	545.4	531.5	513.8	494.6	483.1	472.7	467.6	466.4
61.5°	542.3	546.0	542.6	533.7	520.3	503.1	484.2	472.9	462.8	457.6	456.7
62°	530.8	534.6	531.8	523.1	509.1	492.3	474.8	462.9	452.8	447.6	446.9
62.5°	519.4	522.8	520.6	512.3	498.7	482.0	465.3	452.9	442.9	437.9	437.2
63°	507.9	511.6	509.1	501.2	488.0	471.7	455.8	443.0	433.6	428.7	427.9
63.5°	496.6	499.9	497.8	489.7	477.2	461.3	446.4	433.4	424.2	419.4	418.7
64°	485.0	488.3	486.1	479.9	466.3	451.0	436.3	424.1	415.0	410.3	409.4
64.5°	473.2	476.8	474.8	476.2	455.9	440.7	426.7	414.5	405.7	400.9	399.9
65°	461.6	465.2	463.5	463.0	446.0	430.4	417.1	405.1	396.4	392.0	390.9
65.5°	449.9	453.6	452.2	449.9	435.2	420.2	407.2	395.7	387.3	382.7	381.6
66°	438.2	442.0	441.0	436.7	424.5	410.3	397.6	386.4	378.4	373.7	372.9



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
67.5°	404.1	407.7	407.3	402.2	393.0	380.9	369.3	359.4	351.6	347.2	346.1
68°	392.9	396.5	396.0	391.5	382.7	371.1	359.8	350.3	343.0	338.7	337.5
68.5°	381.4	385.2	385.3	380.4	372.4	361.2	350.7	341.2	334.4	330.3	328.4
69°	370.0	373.9	374.2	370.3	362.2	351.4	341.5	332.4	325.3	321.6	320.1
69.5°	358.7	363.0	363.1	359.7	352.4	341.9	332.3	323.5	316.7	312.8	311.5
70°	347.3	351.6	352.2	349.2	342.2	332.5	323.2	314.6	308.3	304.3	303.0
70.5°	336.0	340.3	341.3	338.5	332.5	323.2	314.3	306.2	300.1	296.1	294.5
71°	324.9	328.9	330.4	328.2	322.3	313.7	305.3	297.6	291.8	287.9	286.4
71.5°	313.6	318.0	319.3	317.6	312.5	304.3	296.5	289.2	283.2	279.6	278.2
72°	302.6	306.9	308.7	307.1	302.6	295.0	287.5	280.6	275.0	271.3	269.8
72.5°	291.5	295.7	298.0	296.9	292.6	285.6	278.9	272.1	266.8	263.6	261.7
73°	280.2	284.7	287.6	286.9	283.2	276.4	270.1	263.8	258.8	255.4	253.5
73.5°	268.8	273.9	276.7	276.7	273.5	267.9	261.5	255.6	250.7	247.4	245.6
74°	258.1	262.7	266.1	266.7	263.9	258.7	253.1	247.4	242.9	239.5	237.7
74.5°	247.2	252.1	255.6	256.4	254.5	249.5	244.7	239.3	235.0	231.9	230.3
75°	236.4	241.3	245.2	246.5	245.1	240.8	236.3	231.5	227.3	224.2	222.3
75.5°	225.3	230.8	234.7	236.6	235.8	232.0	228.0	223.4	219.4	216.7	214.7
76°	214.7	219.9	224.5	227.0	226.3	223.2	219.8	215.6	211.9	209.1	207.0
76.5°	204.1	209.6	214.3	217.1	217.3	214.8	211.5	207.8	204.4	201.8	199.6
77°	193.6	198.9	204.2	207.5	208.3	206.4	203.6	200.0	196.9	194.2	192.1
77.5°	183.0	188.7	194.3	197.9	199.3	198.0	195.7	192.6	189.5	187.1	184.9
78°	172.9	178.5	184.2	188.7	190.5	189.8	187.9	185.1	182.5	180.0	177.9
78.5°	162.5	168.5	174.4	179.4	181.8	181.6	180.0	177.8	175.4	172.9	170.9
79°	152.3	158.5	164.9	170.2	173.1	173.4	172.5	170.5	168.3	166.0	163.8
79.5°	142.4	148.4	155.4	161.2	164.6	165.5	165.2	163.4	161.4	159.3	157.0
80°	133.0	138.8	145.8	152.3	156.3	157.7	157.6	156.3	154.6	152.7	150.4
80.5°	123.2	129.3	136.8	143.6	148.1	150.0	150.4	149.5	148.0	145.9	143.8
81°	113.8	120.0	127.8	134.9	140.0	142.5	143.5	142.7	141.5	139.5	137.4
81.5°	104.5	110.8	119.0	126.4	132.1	135.0	136.5	136.3	135.2	133.4	131.1
82°	95.5	101.8	110.1	118.3	124.3	127.9	129.7	129.8	129.0	127.2	124.9
82.5°	86.2	93.1	101.9	110.2	116.7	120.9	123.0	123.4	122.7	121.0	118.8
83°	78.1	84.6	93.5	102.4	109.3	114.0	116.5	117.2	116.7	115.3	113.0
83.5°	69.9	76.5	85.5	94.8	102.3	107.2	110.2	111.2	111.1	109.5	107.3
84°	62.1	68.6	77.7	87.4	95.3	100.7	104.1	105.4	105.3	104.0	101.7
84.5°	54.3	60.9	70.4	80.2	88.5	94.4	97.9	99.7	99.8	98.5	96.3
85°	47.2	53.6	63.2	73.3	82.1	88.3	92.2	94.1	94.4	93.2	91.0
85.5°	41.1	47.0	56.5	66.8	75.8	82.4	86.6	88.7	89.1	88.0	85.9
86°	34.9	41.0	49.9	60.6	69.9	76.8	81.2	83.5	84.0	83.1	80.9
86.5°	28.8	35.1	44.6	54.6	64.1	71.3	75.9	78.5	79.2	78.3	76.2
87°	22.7	29.1	39.4	48.5	58.7	66.0	70.9	73.7	74.5	73.8	71.5
87.5°	17.4	23.2	34.1	44.0	53.4	61.0	66.1	69.0	69.9	69.2	67.1
88°	12.6	18.3	28.9	39.4	48.3	56.2	61.5	64.5	65.6	64.9	62.8
88.5°	8.5	14.0	23.6	34.8	44.3	51.5	57.0	60.2	61.3	60.7	58.7



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
90°	2.7	4.9	13.1	22.9	32.3	40.2	45.9	48.6	49.9	49.4	47.9
90.5°	1.5	4.0	10.5	19.7	28.8	36.6	42.5	45.6	46.9	46.4	44.9
91°	0.3	3.1	8.5	16.9	25.7	33.2	39.1	42.4	43.9	43.5	41.8
91.5°	0.2	2.3	6.9	14.6	22.9	30.1	35.7	39.3	40.8	40.5	38.8
92°	0.2	1.4	5.6	12.6	20.3	27.3	32.6	36.2	37.8	37.6	35.7
92.5°	0.1	1.1	5.0	10.8	18.1	24.7	29.9	33.3	34.8	34.7	33.1
93°	0.1	0.9	4.4	9.4	16.1	22.4	27.4	30.7	32.3	32.2	30.6
93.5°	0.2	0.7	3.8	8.2	14.3	20.3	25.1	28.4	29.9	29.8	28.4
94°	0.2	0.6	3.2	7.3	12.8	18.4	23.0	26.2	27.7	27.7	26.3
94.5°	0.3	0.5	2.9	6.5	11.5	16.7	21.1	24.1	25.6	25.7	24.4
95°	0.3	0.4	2.6	6.0	10.4	15.2	19.3	22.3	23.8	23.8	22.6
95.5°	0.4	0.4	2.3	5.5	9.5	13.9	17.8	20.6	22.0	22.1	21.0
96°	0.4	0.5	2.1	5.2	8.7	12.8	16.4	19.0	20.4	20.5	19.4
96.5°	0.5	0.5	1.9	4.8	8.1	11.8	15.2	17.7	19.0	19.2	18.2
97°	0.5	0.6	1.7	4.5	7.7	10.9	14.1	16.5	17.8	17.9	17.0
97.5°	0.6	0.6	1.6	4.1	7.3	10.3	13.2	15.4	16.6	16.8	15.9
98°	0.6	0.6	1.4	3.9	6.9	9.7	12.4	14.4	15.6	15.8	15.0
98.5°	0.7	0.6	1.3	3.6	6.5	9.3	11.7	13.6	14.7	14.9	14.2
99°	0.7	0.7	1.2	3.4	6.1	8.9	11.1	12.9	13.9	14.1	13.5
99.5°	0.8	0.8	1.1	3.1	5.8	8.5	10.6	12.3	13.3	13.4	12.9
100°	0.9	0.8	1.1	2.9	5.5	8.0	10.2	11.8	12.7	12.9	12.4
100.5°	1.0	0.9	1.0	2.7	5.2	7.6	9.8	11.3	12.2	12.4	11.9
101°	1.1	0.9	1.0	2.5	4.9	7.3	9.4	10.9	11.8	11.9	11.5
101.5°	1.2	1.0	1.0	2.3	4.6	7.0	9.0	10.5	11.4	11.5	11.1
102°	1.2	1.1	1.0	2.2	4.4	6.6	8.6	10.1	11.0	11.1	10.7
102.5°	1.3	1.1	1.0	2.0	4.1	6.3	8.2	9.7	10.5	10.7	10.3
103°	1.4	1.1	1.0	1.9	3.9	6.0	7.8	9.3	10.1	10.3	9.9
103.5°	1.4	1.2	1.0	1.7	3.6	5.7	7.5	8.9	9.7	9.9	9.6
104°	1.4	1.2	1.0	1.6	3.4	5.4	7.2	8.5	9.4	9.6	9.2
104.5°	1.5	1.3	0.9	1.5	3.1	5.1	6.9	8.2	9.0	9.2	8.8
105°	1.5	1.4	0.9	1.5	2.9	4.9	6.5	7.9	8.7	8.9	8.5
105.5°	1.5	1.6	1.0	1.4	2.8	4.6	6.3	7.5	8.4	8.6	8.2
106°	1.5	1.6	1.0	1.3	2.6	4.3	6.0	7.2	8.0	8.2	7.9
106.5°	1.5	1.5	1.0	1.3	2.4	4.1	5.7	6.9	7.7	7.9	7.6
107°	1.5	1.4	1.0	1.3	2.3	3.9	5.4	6.6	7.4	7.6	7.3
107.5°	1.5	1.4	1.0	1.2	2.2	3.7	5.2	6.3	7.1	7.4	7.0
108°	1.5	1.4	1.1	1.2	2.0	3.5	4.9	6.1	6.8	7.1	6.8
108.5°	1.5	1.5	1.1	1.2	1.9	3.3	4.7	5.8	6.6	6.8	6.5
109°	1.5	1.5	1.1	1.2	1.8	3.1	4.4	5.5	6.3	6.5	6.2
109.5°	1.5	1.6	1.1	1.1	1.7	2.9	4.2	5.3	6.1	6.3	6.0
110°	1.5	1.6	1.2	1.1	1.7	2.8	4.0	5.1	5.8	6.0	5.8
110.5°	1.5	1.5	1.2	1.1	1.6	2.6	3.8	4.8	5.6	5.8	5.5
111°	1.5	1.5	1.2	1.1	1.6	2.5	3.6	4.6	5.3	5.5	5.3



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1.5	1.5	1.3	1.2	1.5	2.1	3.0	4.0	4.6	4.8	4.7
113°	1.6	1.5	1.4	1.2	1.4	2.0	2.9	3.8	4.4	4.6	4.4
113.5°	1.6	1.5	1.4	1.2	1.4	1.9	2.7	3.6	4.2	4.4	4.3
114°	1.6	1.5	1.5	1.3	1.4	1.9	2.6	3.4	4.0	4.2	4.1
114.5°	1.6	1.6	1.5	1.3	1.3	1.8	2.5	3.2	3.8	4.0	3.9
115°	1.7	1.6	1.5	1.3	1.3	1.8	2.4	3.1	3.7	3.9	3.7
115.5°	1.7	1.6	1.6	1.3	1.3	1.7	2.3	2.9	3.5	3.7	3.6
116°	1.7	1.6	1.6	1.4	1.3	1.7	2.2	2.8	3.3	3.5	3.4
116.5°	1.7	1.7	1.7	1.4	1.3	1.7	2.1	2.7	3.2	3.4	3.3
117°	1.7	1.7	1.8	1.4	1.3	1.7	2.1	2.6	3.0	3.2	3.2
117.5°	1.7	1.7	1.9	1.4	1.3	1.6	2.0	2.5	2.9	3.1	3.1
118°	1.7	1.8	2.0	1.5	1.4	1.5	2.0	2.4	2.8	3.0	3.0
118.5°	1.7	1.8	2.0	1.5	1.4	1.5	1.9	2.3	2.7	2.9	2.9
119°	1.7	1.8	2.0	1.5	1.4	1.5	1.9	2.3	2.6	2.8	2.8
119.5°	1.7	1.8	1.9	1.5	1.4	1.5	1.8	2.2	2.5	2.7	2.7
120°	1.7	1.9	1.9	1.6	1.5	1.5	1.8	2.1	2.5	2.7	2.6
120.5°	1.8	1.9	1.9	1.6	1.5	1.5	1.7	2.1	2.4	2.6	2.6
121°	1.8	1.9	1.9	1.6	1.5	1.5	1.7	2.0	2.3	2.5	2.5
121.5°	1.8	1.9	1.9	1.7	1.5	1.5	1.6	2.0	2.3	2.5	2.5
122°	1.8	1.9	2.0	1.7	1.6	1.5	1.6	1.9	2.2	2.4	2.4
122.5°	1.8	1.9	2.0	1.8	1.6	1.6	1.6	1.9	2.2	2.4	2.4
123°	1.8	2.0	2.0	1.8	1.6	1.6	1.6	1.8	2.1	2.3	2.3
123.5°	1.9	2.0	2.1	1.8	1.7	1.6	1.6	1.7	2.1	2.3	2.3
124°	1.9	2.0	2.1	1.9	1.7	1.7	1.6	1.7	2.0	2.2	2.2
124.5°	1.9	2.0	2.1	1.9	1.7	1.7	1.6	1.7	2.0	2.2	2.2
125°	1.9	2.0	2.1	2.0	1.8	1.7	1.6	1.7	1.9	2.1	2.1
125.5°	1.9	2.0	2.1	2.0	1.8	1.7	1.6	1.7	1.9	2.1	2.1
126°	1.9	2.0	2.1	2.1	1.8	1.8	1.7	1.7	1.9	2.1	2.1
126.5°	2.0	2.0	2.1	2.2	1.9	1.8	1.7	1.7	1.9	2.1	2.1
127°	2.0	2.0	2.1	2.3	1.9	1.8	1.7	1.8	1.9	2.1	2.2
127.5°	2.0	2.0	2.1	2.3	1.9	1.8	1.8	1.8	2.0	2.1	2.2
128°	2.0	2.0	2.1	2.4	2.0	1.9	1.8	1.9	2.0	2.1	2.2
128.5°	2.0	2.0	2.1	2.4	2.0	1.9	1.9	1.9	2.0	2.2	2.3
129°	2.1	2.1	2.1	2.4	2.0	1.9	1.9	2.0	2.1	2.2	2.3
129.5°	2.1	2.1	2.1	2.5	2.1	2.0	1.9	2.0	2.1	2.2	2.3
130°	2.1	2.1	2.1	2.4	2.1	2.0	2.0	2.0	2.1	2.3	2.3
130.5°	2.1	2.1	2.1	2.4	2.2	2.0	2.0	2.1	2.2	2.3	2.4
131°	2.1	2.1	2.1	2.5	2.2	2.1	2.1	2.1	2.2	2.3	2.4
131.5°	2.1	2.1	2.1	2.5	2.3	2.1	2.1	2.2	2.3	2.4	2.5
132°	2.1	2.1	2.1	2.5	2.3	2.2	2.1	2.2	2.3	2.4	2.5
132.5°	2.1	2.1	2.1	2.6	2.4	2.2	2.2	2.3	2.3	2.4	2.5
133°	2.1	2.2	2.1	2.6	2.5	2.3	2.3	2.3	2.4	2.5	2.6
133.5°	2.1	2.2	2.2	2.6	2.6	2.3	2.3	2.4	2.4	2.5	2.6



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
135°	2.2	2.3	2.3	2.7	2.8	2.5	2.5	2.5	2.5	2.6	2.7
135.5°	2.2	2.3	2.3	2.7	2.9	2.6	2.5	2.5	2.6	2.6	2.8
136°	2.1	2.3	2.3	2.7	2.9	2.6	2.6	2.6	2.6	2.7	2.8
136.5°	2.1	2.2	2.3	2.6	2.9	2.7	2.6	2.6	2.7	2.7	2.9
137°	2.1	2.3	2.4	2.6	2.9	2.7	2.7	2.7	2.7	2.8	2.9
137.5°	2.2	2.3	2.4	2.6	2.9	2.8	2.7	2.7	2.7	2.8	2.9
138°	2.2	2.4	2.4	2.6	2.9	2.9	2.8	2.8	2.8	2.9	3.0
138.5°	2.2	2.4	2.4	2.5	2.9	3.0	2.8	2.8	2.8	2.9	3.0
139°	2.2	2.4	2.4	2.5	2.9	3.1	2.8	2.8	2.9	2.9	3.1
139.5°	2.2	2.4	2.5	2.5	3.0	3.2	2.9	2.9	2.9	3.0	3.1
140°	2.2	2.5	2.5	2.5	3.0	3.2	2.9	2.9	2.9	3.0	3.2
140.5°	2.2	2.5	2.5	2.5	3.0	3.2	3.0	3.0	3.0	3.1	3.2
141°	2.2	2.5	2.5	2.5	3.0	3.3	3.1	3.0	3.0	3.1	3.3
141.5°	2.2	2.5	2.5	2.5	3.1	3.3	3.2	3.0	3.1	3.2	3.3
142°	2.2	2.5	2.5	2.5	3.0	3.3	3.3	3.1	3.1	3.2	3.4
142.5°	2.2	2.6	2.5	2.5	3.0	3.3	3.4	3.1	3.1	3.2	3.4
143°	2.2	2.6	2.6	2.4	3.0	3.3	3.4	3.2	3.2	3.3	3.5
143.5°	2.3	2.6	2.6	2.4	2.9	3.3	3.5	3.3	3.2	3.4	3.6
144°	2.2	2.6	2.6	2.4	2.9	3.3	3.5	3.4	3.3	3.4	3.6
144.5°	2.2	2.6	2.6	2.4	2.9	3.3	3.5	3.5	3.4	3.5	3.7
145°	2.2	2.6	2.6	2.4	2.9	3.3	3.5	3.6	3.4	3.5	3.8
145.5°	2.2	2.6	2.6	2.4	2.8	3.3	3.5	3.7	3.5	3.6	3.8
146°	2.2	2.6	2.6	2.4	2.8	3.3	3.5	3.7	3.7	3.7	3.9
146.5°	2.2	2.6	2.6	2.4	2.8	3.3	3.5	3.7	3.8	3.8	4.1
147°	2.2	2.6	2.6	2.4	2.7	3.3	3.4	3.7	3.9	3.9	4.2
147.5°	2.2	2.6	2.6	2.4	2.7	3.2	3.4	3.7	3.9	4.0	4.2
148°	2.2	2.6	2.6	2.4	2.7	3.2	3.4	3.7	3.8	4.0	4.2
148.5°	2.2	2.6	2.6	2.4	2.6	3.2	3.4	3.7	3.8	4.0	4.1
149°	2.2	2.6	2.6	2.4	2.6	3.2	3.4	3.7	3.8	4.0	4.1
149.5°	2.1	2.6	2.7	2.4	2.6	3.1	3.4	3.6	3.9	4.0	4.2
150°	2.2	2.6	2.7	2.4	2.6	3.1	3.4	3.6	3.9	4.0	4.1
150.5°	2.2	2.5	2.7	2.5	2.5	3.0	3.4	3.6	3.8	3.9	4.1
151°	2.1	2.5	2.7	2.5	2.5	3.0	3.4	3.6	3.8	3.9	4.0
151.5°	2.0	2.5	2.7	2.5	2.5	2.9	3.3	3.6	3.8	3.8	4.0
152°	2.0	2.5	2.7	2.5	2.5	2.9	3.3	3.6	3.8	3.8	4.0
152.5°	2.0	2.4	2.7	2.5	2.5	2.8	3.2	3.6	3.7	3.8	4.0
153°	1.9	2.4	2.7	2.5	2.5	2.8	3.2	3.5	3.7	3.8	4.0
153.5°	1.8	2.4	2.7	2.6	2.5	2.7	3.1	3.5	3.7	3.8	3.9
154°	1.7	2.3	2.7	2.6	2.5	2.7	3.1	3.4	3.6	3.8	3.8
154.5°	1.6	2.3	2.7	2.6	2.5	2.7	3.0	3.3	3.5	3.7	3.7
155°	1.6	2.3	2.7	2.6	2.6	2.7	2.9	3.3	3.5	3.6	3.6
155.5°	1.7	2.3	2.7	2.6	2.6	2.7	2.9	3.2	3.4	3.5	3.6
156°	1.6	2.3	2.7	2.6	2.6	2.6	2.8	3.1	3.3	3.5	3.5



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
0.5°	1409.8	1409.8	1409.7	1409.5	1409.4	1409.2	1409.1	1409.0	1409.0	1409.0	1409.0
1°	1409.8	1410.0	1410.2	1410.3	1410.2	1409.9	1409.5	1409.1	1408.8	1408.6	1408.6
1.5°	1410.2	1410.1	1409.7	1409.0	1408.6	1408.6	1408.6	1408.4	1408.1	1407.9	1407.8
2°	1410.2	1409.1	1407.9	1407.9	1407.9	1407.4	1407.2	1407.3	1407.0	1406.8	1406.8
2.5°	1409.1	1408.9	1409.0	1408.2	1408.1	1407.8	1406.9	1406.8	1406.5	1406.3	1406.0
3°	1408.5	1408.2	1407.9	1407.2	1407.3	1407.0	1406.7	1406.2	1405.1	1404.1	1404.4
3.5°	1407.4	1407.0	1407.0	1407.1	1406.4	1405.4	1405.2	1405.4	1403.7	1403.1	1402.9
4°	1407.1	1406.4	1405.9	1405.9	1405.6	1405.0	1403.9	1404.2	1403.3	1402.2	1401.2
4.5°	1404.5	1405.3	1403.9	1404.8	1404.8	1403.8	1402.7	1402.0	1401.6	1400.6	1399.9
5°	1403.9	1403.9	1403.6	1402.9	1403.2	1402.7	1401.7	1400.9	1400.3	1399.5	1397.7
5.5°	1403.1	1402.5	1402.2	1401.5	1401.8	1400.8	1400.6	1399.6	1399.0	1398.0	1396.0
6°	1401.5	1400.9	1400.2	1399.9	1399.7	1399.2	1398.9	1397.8	1397.0	1396.3	1393.8
6.5°	1399.5	1399.0	1398.6	1398.1	1397.7	1398.2	1397.3	1396.1	1394.5	1394.4	1391.9
7°	1397.7	1396.9	1397.3	1396.4	1396.1	1396.2	1395.6	1393.8	1392.3	1391.7	1390.0
7.5°	1395.4	1394.8	1395.0	1395.0	1393.9	1394.0	1393.1	1392.3	1390.0	1389.7	1388.1
8°	1393.2	1392.9	1392.5	1392.6	1392.2	1392.2	1390.4	1389.5	1387.9	1387.4	1385.1
8.5°	1390.4	1390.4	1390.0	1389.8	1390.2	1389.3	1389.1	1387.3	1386.3	1384.6	1382.6
9°	1387.6	1387.9	1387.5	1387.5	1387.9	1386.7	1386.3	1385.3	1383.1	1381.8	1380.0
9.5°	1385.3	1385.4	1384.6	1384.7	1384.8	1384.6	1383.3	1382.2	1379.9	1378.8	1376.5
10°	1382.2	1382.3	1381.7	1382.5	1382.1	1380.9	1381.0	1379.5	1377.4	1376.0	1373.5
10.5°	1379.0	1379.4	1378.1	1379.6	1379.1	1378.4	1378.4	1376.9	1374.9	1372.4	1370.5
11°	1375.2	1376.4	1375.8	1376.9	1376.3	1375.9	1375.5	1374.0	1371.5	1368.9	1366.9
11.5°	1371.7	1372.9	1372.2	1373.1	1373.1	1373.2	1372.1	1370.3	1367.8	1366.0	1363.1
12°	1368.2	1369.0	1368.7	1369.3	1370.1	1369.4	1368.8	1367.1	1364.9	1362.9	1359.5
12.5°	1364.5	1365.5	1365.4	1365.6	1366.8	1366.0	1365.3	1363.8	1361.8	1358.6	1356.2
13°	1360.6	1361.6	1361.1	1361.6	1362.6	1362.3	1362.1	1360.5	1358.5	1354.8	1352.5
13.5°	1356.2	1356.8	1356.8	1358.1	1358.7	1358.5	1358.3	1356.7	1354.0	1350.8	1347.7
14°	1351.5	1352.6	1353.3	1354.3	1355.0	1354.8	1354.5	1353.3	1350.0	1346.8	1343.4
14.5°	1346.9	1348.1	1349.0	1350.0	1351.1	1351.0	1350.6	1349.1	1346.6	1342.4	1339.0
15°	1342.2	1344.0	1344.4	1345.7	1347.4	1346.7	1346.7	1344.6	1342.6	1337.6	1334.5
15.5°	1337.3	1339.7	1340.2	1341.6	1343.2	1342.2	1342.7	1340.4	1337.8	1333.4	1330.0
16°	1331.9	1334.3	1335.3	1336.7	1338.3	1338.2	1338.2	1336.5	1333.3	1329.5	1325.5
16.5°	1326.9	1329.4	1330.4	1331.9	1333.5	1333.8	1333.4	1332.3	1329.2	1324.9	1320.3
17°	1321.5	1323.8	1325.1	1326.9	1329.0	1329.0	1328.9	1327.7	1324.4	1319.8	1314.8
17.5°	1316.0	1318.8	1320.2	1321.8	1324.5	1324.6	1325.0	1322.8	1319.4	1314.9	1309.8
18°	1310.6	1312.7	1315.1	1317.4	1319.3	1319.4	1319.7	1317.6	1314.2	1309.8	1304.2
18.5°	1304.5	1306.5	1309.8	1311.9	1314.2	1314.1	1314.1	1312.8	1309.2	1304.1	1298.4
19°	1298.1	1300.5	1303.8	1305.9	1308.9	1309.3	1309.3	1307.8	1304.5	1298.6	1293.1
19.5°	1291.8	1294.6	1297.8	1300.7	1303.2	1303.7	1304.1	1302.4	1298.9	1293.2	1287.1
20°	1286.2	1289.1	1292.1	1295.0	1297.6	1298.6	1298.6	1297.2	1293.5	1287.6	1281.3
20.5°	1279.7	1282.6	1286.2	1288.7	1292.2	1292.8	1292.9	1291.9	1288.0	1281.9	1275.2
21°	1272.8	1276.7	1279.5	1282.7	1286.0	1287.5	1287.5	1285.9	1282.2	1275.7	1269.1



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
22.5°	1251.9	1255.4	1259.8	1264.4	1267.8	1269.8	1269.7	1267.8	1264.1	1256.9	1250.2
23°	1244.6	1248.4	1253.3	1257.6	1261.5	1263.3	1263.4	1261.4	1257.9	1250.9	1243.0
23.5°	1237.2	1241.2	1246.1	1250.4	1255.3	1257.4	1257.5	1255.6	1251.4	1244.8	1236.3
24°	1229.3	1234.3	1238.7	1243.8	1248.4	1250.6	1251.0	1249.3	1245.1	1238.0	1229.5
24.5°	1221.7	1226.5	1231.7	1236.7	1241.4	1244.1	1244.9	1242.9	1238.4	1231.1	1222.4
25°	1214.2	1218.8	1224.6	1229.6	1234.5	1237.6	1238.5	1236.3	1231.7	1223.9	1215.0
25.5°	1206.2	1211.3	1216.8	1222.1	1227.3	1230.6	1231.4	1229.3	1224.8	1217.0	1208.1
26°	1198.0	1203.4	1209.3	1214.5	1220.4	1223.4	1224.1	1222.9	1218.0	1209.8	1200.5
26.5°	1189.9	1195.0	1201.3	1207.0	1213.5	1216.8	1217.3	1215.7	1210.6	1202.7	1193.0
27°	1181.2	1187.1	1193.3	1199.6	1205.5	1209.3	1210.1	1208.2	1203.6	1195.3	1185.4
27.5°	1172.9	1178.5	1185.3	1191.7	1198.5	1201.7	1202.7	1201.1	1196.3	1187.9	1177.5
28°	1164.0	1170.4	1176.7	1184.1	1190.5	1194.0	1195.1	1193.8	1188.7	1180.3	1169.4
28.5°	1155.3	1161.5	1168.8	1176.1	1182.4	1186.6	1187.8	1186.5	1181.2	1172.4	1161.9
29°	1146.3	1152.9	1160.6	1167.3	1175.0	1179.4	1180.5	1178.7	1173.6	1164.7	1153.6
29.5°	1136.9	1143.5	1151.8	1159.1	1166.9	1170.9	1173.1	1171.0	1165.5	1156.7	1145.1
30°	1128.1	1135.0	1143.2	1151.1	1158.6	1163.8	1164.5	1163.2	1157.4	1148.6	1137.0
30.5°	1118.8	1125.2	1134.4	1142.9	1150.3	1155.4	1156.4	1154.8	1150.2	1140.3	1128.4
31°	1108.6	1116.7	1125.6	1133.8	1142.2	1146.8	1148.8	1147.5	1141.7	1131.7	1120.0
31.5°	1099.0	1107.4	1116.5	1124.8	1134.0	1138.9	1140.5	1138.9	1133.1	1123.8	1111.4
32°	1089.5	1097.6	1107.1	1116.4	1124.9	1130.3	1131.8	1130.7	1125.3	1115.2	1102.6
32.5°	1079.7	1088.5	1098.2	1107.4	1116.0	1121.9	1123.7	1122.6	1116.5	1106.7	1093.9
33°	1069.9	1078.5	1089.0	1098.4	1107.9	1113.1	1115.4	1113.7	1108.2	1098.1	1084.6
33.5°	1059.8	1068.8	1079.3	1089.5	1098.6	1104.6	1106.3	1105.5	1099.5	1089.0	1075.5
34°	1049.8	1058.9	1069.8	1080.1	1089.1	1095.7	1097.7	1097.2	1090.8	1080.2	1066.5
34.5°	1040.0	1049.0	1060.1	1070.6	1080.3	1087.1	1089.2	1088.1	1081.6	1071.6	1058.4
35°	1029.6	1038.6	1050.2	1060.8	1071.4	1077.8	1080.4	1079.1	1073.0	1062.4	1049.5
35.5°	1018.7	1029.0	1040.4	1051.4	1062.0	1068.2	1071.2	1070.1	1064.1	1053.9	1039.6
36°	1008.2	1018.5	1030.4	1042.1	1052.2	1059.5	1062.2	1061.5	1055.2	1044.2	1029.7
36.5°	997.8	1007.9	1020.5	1032.5	1042.9	1050.5	1053.2	1052.5	1045.7	1034.5	1019.8
37°	987.2	997.8	1010.3	1022.0	1033.8	1041.3	1043.8	1042.9	1036.2	1024.9	1009.9
37.5°	976.8	987.1	1000.1	1012.5	1023.9	1031.7	1034.3	1033.3	1026.6	1015.3	1000.1
38°	965.9	976.9	990.2	1002.8	1014.4	1021.9	1024.8	1023.8	1017.1	1005.7	990.3
38.5°	955.5	965.9	980.0	992.5	1003.8	1012.0	1015.4	1014.3	1007.6	996.0	980.2
39°	944.6	955.7	969.4	982.2	994.2	1002.2	1005.5	1004.5	997.8	986.2	970.4
39.5°	934.0	944.9	958.9	972.0	984.2	992.4	995.5	994.5	987.8	976.5	960.1
40°	922.8	934.0	948.2	961.8	974.1	982.7	985.9	984.7	978.1	966.4	950.1
40.5°	911.4	923.3	937.3	951.9	963.7	972.7	975.9	974.6	968.2	956.5	940.1
41°	900.2	912.1	926.9	941.0	953.8	962.2	965.7	964.8	958.2	946.7	929.9
41.5°	889.7	901.4	916.2	930.4	943.2	952.1	955.8	954.8	948.4	936.0	919.2
42°	878.8	891.0	905.5	919.9	932.8	941.7	945.2	945.0	937.8	925.4	908.8
42.5°	867.9	879.9	894.8	909.4	922.2	931.4	935.2	934.5	927.8	915.4	898.1
43°	856.8	868.2	883.8	898.7	911.9	921.8	924.8	924.2	917.3	905.2	888.6
43.5°	845.2	857.7	873.1	888.1	901.7	910.8	914.5	913.8	906.7	894.7	877.7



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
45°	812.3	824.6	840.3	855.6	870.0	879.2	882.7	882.4	875.6	862.7	845.5
45.5°	800.7	813.2	829.3	844.9	858.6	868.0	872.5	871.8	864.5	852.0	834.8
46°	789.5	801.9	818.3	833.8	847.7	857.8	861.4	861.0	853.6	841.5	824.0
46.5°	778.3	791.2	806.7	822.7	836.6	846.6	850.5	850.0	843.0	830.8	813.3
47°	767.3	779.6	795.7	812.0	826.2	836.2	840.0	839.2	832.1	819.8	802.3
47.5°	756.1	769.2	784.7	800.8	815.3	825.4	828.5	828.4	821.4	808.9	791.4
48°	745.0	757.3	773.6	789.7	804.2	814.4	817.8	817.2	810.5	798.2	780.5
48.5°	734.0	746.5	763.0	778.9	792.7	802.9	806.7	806.4	799.5	787.1	769.2
49°	722.7	735.6	752.0	767.7	782.3	792.1	795.9	795.6	788.8	776.0	758.6
49.5°	712.0	724.6	740.8	756.5	770.7	781.5	785.2	784.4	777.6	764.9	747.8
50°	701.0	713.1	729.6	745.1	760.2	770.3	774.1	773.5	766.5	754.2	736.6
50.5°	690.0	702.2	718.4	734.5	748.9	759.2	762.9	762.3	755.7	742.9	725.3
51°	678.8	691.3	707.4	723.6	738.0	747.8	751.5	751.1	744.0	731.7	714.4
51.5°	668.2	680.9	696.3	712.4	726.5	737.1	740.3	740.0	733.1	721.0	703.3
52°	657.4	669.4	685.3	701.0	715.6	725.2	729.4	728.8	722.0	709.4	692.2
52.5°	646.7	658.6	674.3	690.0	704.3	714.3	718.3	718.6	710.7	698.0	681.1
53°	636.0	647.8	663.2	679.1	693.4	703.0	707.8	707.3	699.4	687.0	670.2
53.5°	625.2	637.2	652.5	667.8	682.2	692.1	697.6	694.8	688.2	676.1	659.0
54°	614.5	625.5	641.7	656.7	671.1	680.6	685.5	683.4	676.6	664.7	648.2
54.5°	604.1	615.3	630.5	645.8	659.4	669.7	673.1	672.2	665.5	653.6	637.1
55°	593.2	604.8	619.8	634.8	648.6	658.2	661.7	660.7	654.1	642.4	625.9
55.5°	582.4	594.2	609.2	623.8	637.1	647.0	650.0	649.2	642.5	631.1	614.6
56°	572.0	583.3	598.2	612.6	626.0	635.2	638.7	639.1	631.5	619.7	603.7
56.5°	561.7	572.7	587.3	601.7	614.9	623.9	628.0	627.6	620.4	608.5	592.6
57°	551.6	562.1	576.2	590.8	603.7	612.8	618.0	614.8	609.2	597.4	581.6
57.5°	541.1	551.9	565.5	580.3	592.5	601.7	606.0	603.7	597.0	586.0	570.6
58°	530.8	541.4	555.2	569.2	581.1	590.3	592.8	592.2	585.7	574.8	559.5
58.5°	520.8	530.8	544.3	557.8	569.9	578.7	581.6	581.0	574.3	563.9	548.4
59°	510.8	520.5	533.4	546.6	559.1	567.4	570.4	569.8	563.2	552.3	537.2
59.5°	500.5	510.4	522.9	535.9	548.0	556.8	559.9	557.5	551.5	541.0	526.6
60°	490.8	500.3	512.4	525.3	537.7	545.5	548.1	546.2	540.2	529.9	515.2
60.5°	480.9	490.1	502.1	514.5	526.8	533.6	535.5	534.8	528.4	518.5	504.4
61°	471.0	479.9	491.9	503.8	515.0	521.7	523.8	523.5	517.2	507.2	493.5
61.5°	461.0	469.7	481.4	493.6	503.5	510.8	512.8	511.6	505.4	495.8	482.2
62°	451.2	459.4	470.9	482.7	495.7	500.7	502.2	500.3	494.0	484.9	471.4
62.5°	441.2	449.2	460.4	472.2	484.0	497.0	487.5	488.5	482.8	473.6	460.3
63°	431.4	439.3	449.7	461.0	473.1	483.2	476.2	477.3	471.6	462.4	450.0
63.5°	422.0	429.5	439.3	449.9	460.9	469.8	465.2	465.6	459.7	451.3	439.1
64°	412.7	419.8	429.1	438.9	448.6	456.5	454.1	453.9	448.5	440.2	428.2
64.5°	403.2	409.9	419.1	428.4	437.3	443.2	443.0	442.4	437.2	428.9	417.3
65°	393.9	400.4	409.3	418.1	426.0	431.3	431.6	431.2	426.0	417.7	406.9
65.5°	384.6	390.9	399.1	407.5	415.1	419.8	420.8	419.6	414.5	406.7	396.0
66°	375.3	381.4	389.0	397.3	404.2	409.6	409.5	408.1	403.3	395.7	385.2



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
67.5°	348.4	353.2	360.1	366.7	372.2	375.3	375.0	374.0	369.4	362.8	353.7
68°	339.3	344.0	350.4	356.3	361.4	364.5	363.6	362.8	358.2	351.7	342.8
68.5°	330.6	334.8	340.5	346.2	350.8	353.3	352.7	351.4	346.7	340.7	332.6
69°	321.7	325.4	331.0	336.0	340.1	342.4	341.3	339.9	335.5	330.0	322.1
69.5°	312.7	316.2	321.5	326.1	329.9	331.7	330.3	328.4	324.5	319.2	312.0
70°	303.8	307.4	312.1	316.3	319.5	320.5	318.7	317.4	313.5	308.4	301.6
70.5°	295.5	298.6	302.9	306.4	309.0	309.5	307.7	306.2	302.1	297.8	291.3
71°	287.2	289.8	293.5	296.7	298.7	298.8	296.4	295.2	291.4	286.8	280.9
71.5°	278.5	281.2	284.2	286.8	288.4	288.0	285.4	284.0	280.3	276.3	271.0
72°	270.1	272.3	275.0	277.2	278.2	277.3	274.6	272.9	269.3	265.7	261.0
72.5°	261.9	263.5	265.9	267.5	268.3	266.8	263.7	261.7	258.3	255.3	251.1
73°	253.5	254.8	256.9	258.0	258.2	256.2	252.7	250.7	247.5	244.8	240.9
73.5°	245.4	246.3	248.0	248.6	248.2	245.8	242.0	239.9	236.9	234.5	231.2
74°	237.5	238.0	239.3	239.5	238.3	235.4	231.2	229.1	226.4	224.1	221.4
74.5°	229.4	229.8	230.5	230.1	228.4	225.1	220.5	218.1	215.7	213.7	212.0
75°	221.4	221.4	221.7	220.6	218.5	214.9	210.0	207.6	205.3	203.8	202.5
75.5°	213.7	213.3	213.1	211.6	209.0	204.7	199.6	197.0	194.7	193.9	193.1
76°	206.0	205.3	204.5	202.6	199.5	194.7	189.2	186.6	184.5	184.0	183.6
76.5°	198.3	197.3	196.1	193.6	190.1	184.8	178.7	176.0	174.3	174.4	174.6
77°	190.7	189.4	188.0	185.2	180.7	175.0	168.8	165.9	164.3	164.6	165.5
77.5°	183.2	181.7	179.8	176.4	171.5	165.3	158.7	155.8	154.2	155.4	156.7
78°	176.0	174.1	171.6	167.8	162.5	155.8	148.9	145.8	144.6	145.8	147.5
78.5°	168.8	166.6	163.8	159.5	153.6	146.4	139.3	136.0	135.0	136.7	139.2
79°	161.7	159.3	156.0	151.2	144.9	137.2	129.8	126.7	125.9	128.2	131.2
79.5°	154.7	151.9	148.3	142.9	136.4	128.2	120.2	117.5	116.8	119.7	123.2
80°	147.8	144.9	140.8	135.0	127.8	119.1	111.1	108.2	107.8	111.2	115.3
80.5°	141.1	137.8	133.4	127.0	119.5	110.7	102.2	98.9	98.7	102.7	107.3
81°	134.7	131.1	126.2	119.6	111.5	102.2	93.6	90.1	90.2	94.2	99.3
81.5°	128.2	124.4	119.2	112.0	103.8	94.0	85.0	81.1	82.0	86.2	91.8
82°	121.8	117.7	112.4	105.0	95.9	86.0	76.8	72.8	73.7	78.4	84.5
82.5°	115.6	111.4	105.7	97.8	88.6	78.3	69.0	65.1	65.9	71.0	77.6
83°	109.7	105.2	99.2	91.1	81.5	70.8	61.3	57.3	58.5	64.0	70.9
83.5°	103.8	99.3	93.0	84.5	74.5	63.7	54.1	50.1	51.6	57.2	64.5
84°	98.2	93.5	86.9	78.2	67.9	56.8	47.3	43.1	44.7	50.6	58.4
84.5°	92.8	87.8	81.0	71.9	61.6	50.4	41.4	36.5	38.3	44.4	52.6
85°	87.3	82.3	75.2	66.2	55.5	45.0	35.5	30.4	32.2	38.8	47.1
85.5°	82.1	77.0	69.8	60.6	50.0	39.8	29.7	24.6	26.7	33.5	42.1
86°	77.1	71.9	64.7	55.4	45.3	34.5	23.9	20.5	21.6	28.7	37.3
86.5°	72.4	67.1	59.7	50.4	40.7	29.2	18.9	16.3	18.3	24.2	32.9
87°	67.8	62.4	54.9	46.4	36.1	24.0	14.6	12.2	14.9	20.3	28.8
87.5°	63.3	57.8	50.6	42.3	31.5	19.9	10.9	8.0	11.5	17.7	25.1
88°	59.0	53.6	46.7	38.2	26.9	16.4	7.8	3.9	8.2	15.1	21.8
88.5°	55.0	49.4	43.1	34.0	23.3	13.4	5.4	1.8	5.0	12.6	18.9



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
90°	44.5	39.3	32.2	23.8	14.9	6.9	2.4	0.5	2.1	6.3	13.3
90.5°	41.4	36.0	29.2	21.1	12.7	5.6	1.5	0.4	1.8	5.4	11.7
91°	38.2	33.0	26.4	18.7	10.9	4.9	1.1	0.3	1.6	4.7	10.2
91.5°	35.2	30.3	23.9	16.6	9.4	4.3	0.9	0.2	1.4	4.3	8.6
92°	32.5	27.7	21.6	14.8	8.2	3.7	0.7	0.2	1.3	4.0	7.9
92.5°	29.9	25.4	19.6	13.1	7.2	3.1	0.6	0.3	1.2	3.7	7.3
93°	27.7	23.2	17.7	11.8	6.5	2.8	0.5	0.3	1.0	3.5	6.8
93.5°	25.5	21.3	16.1	10.6	5.9	2.5	0.5	0.4	1.0	3.3	6.5
94°	23.6	19.5	14.6	9.6	5.4	2.3	0.4	0.4	0.9	3.2	6.2
94.5°	21.7	17.9	13.4	8.8	5.1	2.1	0.5	0.5	1.0	3.2	5.9
95°	20.1	16.5	12.3	8.2	4.8	1.9	0.5	0.5	1.0	3.1	5.7
95.5°	18.6	15.2	11.4	7.7	4.5	1.8	0.6	0.6	1.0	3.1	5.6
96°	17.2	14.1	10.6	7.3	4.2	1.6	0.7	0.7	1.0	3.0	5.4
96.5°	16.1	13.2	10.0	6.9	3.9	1.5	0.7	0.8	1.0	2.9	5.3
97°	15.0	12.4	9.5	6.6	3.7	1.5	0.8	0.8	0.9	2.8	5.2
97.5°	14.1	11.7	9.0	6.3	3.5	1.4	0.9	0.9	0.9	2.7	5.1
98°	13.3	11.1	8.6	6.0	3.3	1.3	0.9	1.0	0.9	2.6	5.1
98.5°	12.7	10.7	8.3	5.7	3.1	1.3	1.0	1.1	1.0	2.5	5.0
99°	12.1	10.2	7.9	5.4	3.0	1.2	1.1	1.2	1.1	2.5	4.9
99.5°	11.6	9.9	7.6	5.1	2.8	1.2	1.1	1.3	1.2	2.5	4.8
100°	11.2	9.5	7.3	4.9	2.7	1.2	1.2	1.5	1.3	2.5	4.7
100.5°	10.8	9.1	7.0	4.6	2.5	1.2	1.3	1.6	1.4	2.5	4.5
101°	10.4	8.7	6.7	4.4	2.4	1.2	1.3	1.7	1.5	2.4	4.5
101.5°	10.0	8.4	6.4	4.1	2.2	1.2	1.4	1.7	1.5	2.3	4.4
102°	9.6	8.0	6.1	3.9	2.1	1.2	1.4	1.8	1.6	2.3	4.3
102.5°	9.3	7.7	5.8	3.7	2.0	1.2	1.6	1.8	1.7	2.2	4.2
103°	8.9	7.4	5.6	3.6	1.9	1.2	1.7	1.9	1.7	2.1	4.1
103.5°	8.6	7.1	5.3	3.4	1.8	1.3	1.7	1.9	1.8	2.1	4.0
104°	8.2	6.8	5.1	3.2	1.7	1.4	1.8	2.0	1.9	2.0	3.9
104.5°	7.9	6.6	4.9	3.1	1.7	1.5	1.8	2.0	1.9	2.0	3.8
105°	7.6	6.3	4.7	2.9	1.7	1.6	2.0	2.1	2.0	2.0	3.7
105.5°	7.3	6.0	4.5	2.8	1.7	1.6	2.3	2.2	2.1	2.0	3.6
106°	7.0	5.8	4.3	2.7	1.7	1.7	2.6	2.2	2.2	2.0	3.5
106.5°	6.7	5.6	4.1	2.5	1.7	1.7	2.8	2.3	2.3	1.9	3.3
107°	6.5	5.3	3.9	2.4	1.7	1.7	3.0	2.3	2.6	1.9	3.2
107.5°	6.2	5.1	3.7	2.3	1.7	1.8	3.1	2.4	2.8	1.8	3.1
108°	6.0	4.9	3.5	2.3	1.7	1.8	3.1	2.4	2.8	1.9	3.0
108.5°	5.7	4.6	3.4	2.2	1.7	1.9	3.0	2.5	2.7	1.9	2.9
109°	5.5	4.4	3.2	2.1	1.8	1.9	2.9	2.5	2.7	2.0	2.8
109.5°	5.3	4.2	3.1	2.0	1.8	2.0	2.9	2.5	2.8	2.0	2.8
110°	5.1	4.0	2.9	2.0	1.9	2.1	2.9	2.6	2.8	2.1	2.7
110.5°	4.9	3.9	2.8	1.9	1.9	2.2	2.9	2.6	2.9	2.2	2.7
111°	4.6	3.7	2.7	1.9	1.9	2.3	2.9	2.6	2.9	2.2	2.6



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	4.1	3.2	2.4	1.9	2.0	2.6	2.9	2.7	3.2	2.4	2.6
113°	3.9	3.1	2.3	1.9	2.0	2.7	3.0	2.7	3.2	2.4	2.5
113.5°	3.8	3.0	2.3	1.9	2.1	2.8	3.0	2.8	3.3	2.4	2.4
114°	3.6	2.9	2.3	1.9	2.2	3.0	3.1	2.8	3.3	2.5	2.3
114.5°	3.5	2.8	2.2	1.9	2.2	3.1	3.1	2.8	3.4	2.5	2.2
115°	3.3	2.8	2.2	2.0	2.3	3.2	3.2	2.8	3.4	2.6	2.1
115.5°	3.2	2.7	2.2	2.0	2.4	3.3	3.2	2.8	3.4	2.6	2.1
116°	3.1	2.7	2.2	2.1	2.5	3.5	3.2	2.8	3.5	2.7	2.2
116.5°	3.0	2.6	2.2	2.2	2.6	3.6	3.2	2.8	3.5	2.7	2.2
117°	2.9	2.5	2.1	2.2	2.6	3.6	3.3	2.8	3.5	2.8	2.3
117.5°	2.8	2.5	2.1	2.3	2.7	3.6	3.3	2.8	3.6	2.9	2.3
118°	2.7	2.5	2.1	2.4	2.8	3.7	3.4	2.8	3.6	2.9	2.4
118.5°	2.7	2.4	2.1	2.4	2.9	3.8	3.4	2.8	3.6	2.9	2.4
119°	2.6	2.3	2.1	2.5	2.9	4.0	3.5	2.8	3.7	3.0	2.4
119.5°	2.5	2.3	2.2	2.6	3.0	4.1	3.5	2.8	3.7	3.1	2.5
120°	2.5	2.3	2.2	2.6	3.1	4.1	3.5	2.8	3.7	3.2	2.6
120.5°	2.5	2.2	2.3	2.7	3.1	4.3	3.5	2.8	3.7	3.3	2.7
121°	2.4	2.2	2.3	2.7	3.2	4.3	3.5	2.8	3.7	3.4	2.7
121.5°	2.3	2.2	2.3	2.8	3.3	4.4	3.6	2.8	3.7	3.4	2.8
122°	2.3	2.2	2.4	2.8	3.4	4.4	3.5	2.8	3.8	3.4	2.8
122.5°	2.3	2.2	2.5	2.9	3.5	4.4	3.5	2.8	3.8	3.4	2.8
123°	2.2	2.2	2.5	2.9	3.5	4.3	3.5	2.8	3.8	3.4	2.9
123.5°	2.2	2.2	2.6	3.0	3.6	4.2	3.5	2.8	3.8	3.4	2.9
124°	2.2	2.3	2.6	3.0	3.7	4.1	3.4	2.8	3.8	3.5	3.0
124.5°	2.2	2.3	2.7	3.1	3.8	4.1	3.4	2.8	3.8	3.5	3.0
125°	2.2	2.3	2.7	3.2	3.9	4.0	3.4	2.8	3.8	3.5	3.0
125.5°	2.2	2.4	2.8	3.2	4.0	4.0	3.4	2.8	3.8	3.6	3.1
126°	2.2	2.4	2.8	3.3	4.1	3.9	3.3	2.9	3.8	3.6	3.1
126.5°	2.3	2.5	2.9	3.3	4.2	3.9	3.3	2.9	3.8	3.6	3.2
127°	2.3	2.5	2.9	3.4	4.3	3.8	3.3	2.9	3.8	3.7	3.2
127.5°	2.3	2.6	3.0	3.5	4.3	3.8	3.3	2.9	3.8	3.7	3.2
128°	2.3	2.6	3.0	3.5	4.3	3.8	3.3	2.9	3.8	3.7	3.3
128.5°	2.4	2.7	3.1	3.6	4.4	3.8	3.3	2.9	3.8	3.7	3.3
129°	2.4	2.7	3.1	3.7	4.5	3.8	3.3	2.9	3.8	3.7	3.5
129.5°	2.5	2.7	3.2	3.8	4.5	3.8	3.3	2.9	3.8	3.7	3.6
130°	2.5	2.8	3.2	3.9	4.6	3.8	3.2	2.9	3.8	3.8	3.6
130.5°	2.5	2.8	3.3	3.9	4.6	3.8	3.2	2.9	3.8	3.8	3.7
131°	2.6	2.9	3.3	4.0	4.7	3.8	3.2	2.9	3.8	3.8	3.6
131.5°	2.6	2.9	3.4	4.0	4.7	3.8	3.2	2.9	3.8	3.9	3.6
132°	2.7	3.0	3.4	4.1	4.7	3.7	3.2	2.9	3.8	3.9	3.6
132.5°	2.7	3.0	3.5	4.2	4.7	3.7	3.2	2.9	3.8	3.9	3.6
133°	2.7	3.1	3.6	4.3	4.7	3.7	3.2	3.0	3.8	3.9	3.6
133.5°	2.8	3.1	3.6	4.4	4.7	3.7	3.2	3.0	3.8	3.9	3.6



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
135°	2.9	3.3	3.9	4.7	4.5	3.6	3.2	3.0	3.7	4.0	3.6
135.5°	3.0	3.4	3.9	4.7	4.5	3.6	3.2	3.0	3.8	4.0	3.6
136°	3.0	3.4	4.0	4.7	4.4	3.6	3.2	3.0	3.8	4.0	3.6
136.5°	3.1	3.5	4.0	4.7	4.4	3.6	3.3	3.0	3.7	3.9	3.6
137°	3.1	3.5	4.1	4.8	4.3	3.6	3.3	3.0	3.7	3.9	3.7
137.5°	3.2	3.6	4.1	4.8	4.3	3.6	3.3	3.0	3.7	3.9	3.7
138°	3.2	3.6	4.2	4.9	4.2	3.6	3.3	3.0	3.6	3.9	3.7
138.5°	3.3	3.7	4.3	4.9	4.2	3.6	3.3	3.0	3.5	3.9	3.7
139°	3.3	3.8	4.4	4.8	4.1	3.6	3.3	3.0	3.5	3.9	3.7
139.5°	3.4	3.8	4.5	4.9	4.0	3.6	3.3	3.0	3.5	3.9	3.7
140°	3.5	3.9	4.5	4.8	4.0	3.6	3.4	3.0	3.6	3.9	3.7
140.5°	3.5	3.9	4.6	4.8	3.9	3.6	3.3	2.9	3.6	4.0	3.7
141°	3.6	4.0	4.6	4.7	3.9	3.6	3.3	2.9	3.6	4.0	3.7
141.5°	3.6	4.1	4.7	4.6	3.8	3.6	3.3	2.9	3.5	4.0	3.7
142°	3.7	4.2	4.7	4.6	3.8	3.6	3.4	2.9	3.5	4.0	3.7
142.5°	3.7	4.3	4.7	4.5	3.7	3.6	3.4	2.8	3.5	4.0	3.6
143°	3.8	4.4	4.7	4.4	3.7	3.6	3.3	2.8	3.5	3.9	3.6
143.5°	3.8	4.4	4.7	4.4	3.7	3.7	3.2	2.8	3.5	3.8	3.6
144°	3.9	4.5	4.7	4.3	3.6	3.6	3.3	2.9	3.5	3.8	3.7
144.5°	4.0	4.5	4.7	4.2	3.6	3.6	3.3	2.9	3.5	3.9	3.7
145°	4.2	4.5	4.6	4.1	3.6	3.6	3.3	2.9	3.4	4.0	3.7
145.5°	4.3	4.5	4.6	4.1	3.6	3.6	3.3	2.9	3.4	4.0	3.7
146°	4.3	4.5	4.5	4.0	3.5	3.6	3.3	2.9	3.4	4.0	3.7
146.5°	4.3	4.5	4.4	3.9	3.5	3.6	3.3	2.9	3.3	4.0	3.7
147°	4.3	4.4	4.4	3.8	3.5	3.6	3.3	2.9	3.3	4.0	3.8
147.5°	4.3	4.4	4.3	3.7	3.5	3.5	3.2	2.8	3.3	4.0	3.8
148°	4.3	4.4	4.2	3.7	3.5	3.4	3.2	2.9	3.4	4.0	3.9
148.5°	4.3	4.4	4.1	3.6	3.5	3.4	3.2	2.9	3.3	4.0	3.9
149°	4.3	4.3	4.1	3.6	3.4	3.4	3.2	2.9	3.3	3.9	3.9
149.5°	4.2	4.2	4.0	3.5	3.4	3.5	3.2	2.9	3.3	3.9	3.9
150°	4.2	4.2	3.9	3.5	3.4	3.5	3.2	2.9	3.3	3.9	3.9
150.5°	4.2	4.1	3.8	3.4	3.4	3.4	3.2	2.9	3.3	3.9	3.9
151°	4.2	4.0	3.7	3.4	3.3	3.4	3.2	2.9	3.2	3.8	3.8
151.5°	4.1	3.9	3.6	3.3	3.3	3.4	3.2	2.9	3.2	3.8	3.8
152°	4.1	3.9	3.5	3.3	3.3	3.4	3.1	2.9	3.2	3.7	3.9
152.5°	4.0	3.8	3.5	3.3	3.3	3.4	3.1	2.9	3.0	3.7	3.9
153°	3.9	3.7	3.4	3.2	3.3	3.3	3.1	2.8	2.8	3.6	3.9
153.5°	3.8	3.6	3.3	3.2	3.3	3.3	3.1	2.8	2.8	3.6	3.9
154°	3.7	3.5	3.3	3.2	3.3	3.3	3.1	2.7	2.8	3.5	3.9
154.5°	3.6	3.4	3.2	3.2	3.3	3.3	3.1	2.7	2.7	3.4	3.8
155°	3.6	3.4	3.2	3.2	3.3	3.2	3.0	2.7	2.6	3.2	3.7
155.5°	3.5	3.3	3.1	3.2	3.2	3.1	3.0	2.6	2.6	3.1	3.5
156°	3.4	3.2	3.1	3.2	3.2	3.0	2.9	2.5	2.6	3.0	3.4



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P563561
 CATALOG NUMBER: 4NWS3C3MS-UNV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5	1409.5
0.5°	1409.0	1409.0	1409.1	1409.1	1409.1	1409.1	1409.2	1409.2	1409.2	1409.3	1409.3
1°	1408.6	1408.6	1408.4	1408.1	1407.8	1407.6	1407.8	1408.1	1408.4	1408.7	1408.9
1.5°	1407.9	1407.9	1407.9	1407.7	1407.6	1407.6	1407.7	1407.9	1408.1	1408.2	1408.4
2°	1406.6	1406.7	1406.5	1406.2	1406.0	1406.0	1406.2	1406.5	1406.9	1407.3	1407.3
2.5°	1405.8	1405.7	1405.1	1404.5	1404.6	1404.8	1404.8	1404.9	1405.4	1406.0	1406.4
3°	1404.5	1404.3	1403.5	1403.3	1403.5	1403.7	1403.6	1403.6	1404.0	1404.6	1404.8
3.5°	1402.3	1402.1	1402.0	1401.5	1401.6	1402.1	1402.4	1402.6	1402.9	1403.4	1403.9
4°	1401.2	1401.1	1400.5	1400.0	1400.2	1400.6	1400.9	1401.0	1401.0	1401.6	1402.1
4.5°	1399.0	1398.7	1398.6	1398.6	1398.5	1398.3	1398.5	1398.9	1399.1	1400.0	1401.1
5°	1397.3	1397.1	1396.3	1396.0	1395.5	1395.3	1395.9	1396.7	1397.5	1398.6	1399.9
5.5°	1395.5	1394.8	1394.3	1393.8	1393.6	1393.8	1393.9	1394.5	1395.5	1396.9	1398.2
6°	1392.9	1392.4	1392.0	1391.6	1391.5	1391.2	1391.1	1391.7	1393.0	1394.0	1395.8
6.5°	1390.5	1389.5	1389.1	1388.7	1388.5	1388.7	1388.7	1389.5	1390.7	1392.0	1393.8
7°	1388.5	1387.5	1386.4	1385.7	1385.9	1386.1	1386.4	1387.1	1388.5	1389.5	1392.0
7.5°	1386.2	1385.2	1383.5	1383.0	1382.5	1382.0	1382.7	1383.9	1385.3	1387.0	1389.2
8°	1382.9	1382.1	1380.7	1379.8	1379.3	1379.4	1379.8	1380.9	1382.3	1383.9	1386.5
8.5°	1379.9	1378.3	1377.5	1376.6	1375.9	1376.2	1376.4	1377.7	1379.5	1381.1	1383.7
9°	1376.4	1375.1	1374.1	1372.9	1372.7	1372.7	1372.8	1373.9	1376.1	1378.6	1381.6
9.5°	1373.5	1372.0	1370.1	1369.4	1369.0	1368.8	1369.0	1370.5	1372.6	1375.2	1378.5
10°	1371.2	1368.6	1366.8	1365.6	1365.2	1365.2	1365.1	1366.6	1369.2	1372.0	1375.1
10.5°	1367.2	1365.0	1362.8	1361.4	1360.8	1360.2	1361.2	1363.0	1365.4	1368.5	1372.3
11°	1363.2	1361.0	1358.8	1357.5	1356.8	1356.6	1356.9	1358.6	1361.5	1364.4	1368.6
11.5°	1359.2	1356.8	1354.5	1353.0	1352.4	1351.8	1352.7	1354.4	1357.4	1361.4	1364.4
12°	1355.9	1352.6	1350.1	1348.6	1347.7	1347.4	1348.5	1350.6	1353.4	1357.7	1361.7
12.5°	1352.0	1348.5	1345.9	1344.3	1343.4	1342.3	1343.8	1345.8	1348.9	1353.1	1358.2
13°	1347.8	1343.9	1341.2	1339.2	1337.6	1337.2	1339.0	1341.0	1344.0	1348.7	1353.6
13.5°	1342.8	1339.0	1336.2	1334.0	1332.4	1332.3	1333.8	1335.7	1339.4	1344.0	1349.6
14°	1338.7	1334.4	1331.3	1329.0	1327.3	1327.8	1328.3	1330.8	1334.9	1340.1	1344.7
14.5°	1333.9	1329.2	1326.3	1324.0	1321.5	1321.8	1323.4	1325.6	1329.7	1335.3	1340.6
15°	1329.1	1324.3	1321.3	1318.3	1316.6	1316.3	1317.6	1320.5	1324.3	1330.0	1335.8
15.5°	1324.5	1319.5	1315.5	1312.3	1311.1	1310.3	1311.8	1314.7	1319.2	1324.9	1331.1
16°	1319.4	1314.2	1309.8	1306.3	1304.3	1304.2	1305.6	1308.8	1313.4	1319.4	1325.8
16.5°	1314.1	1308.7	1304.2	1300.5	1298.7	1298.8	1300.0	1302.9	1308.0	1314.0	1320.6
17°	1308.8	1303.1	1298.5	1294.9	1292.8	1292.4	1293.8	1296.9	1302.1	1309.0	1315.5
17.5°	1303.2	1297.3	1292.6	1288.7	1286.4	1285.8	1287.7	1290.6	1295.9	1303.2	1310.7
18°	1297.4	1291.2	1286.3	1282.0	1279.7	1278.9	1280.3	1284.8	1290.2	1297.3	1305.2
18.5°	1291.5	1285.4	1279.6	1275.1	1273.1	1272.6	1274.2	1278.3	1284.4	1291.4	1299.4
19°	1286.1	1278.8	1272.9	1268.4	1266.8	1265.3	1266.8	1271.3	1277.2	1285.1	1293.0
19.5°	1279.4	1272.3	1266.3	1261.6	1259.7	1258.4	1260.2	1264.2	1270.5	1279.1	1287.4
20°	1273.5	1266.2	1259.7	1254.6	1251.9	1251.4	1253.6	1257.6	1264.3	1272.8	1282.2
20.5°	1267.3	1259.5	1253.0	1247.4	1244.3	1243.9	1246.2	1250.9	1257.6	1266.4	1276.1
21°	1260.6	1252.8	1245.9	1240.0	1236.6	1236.5	1238.7	1243.4	1250.7	1260.0	1269.4



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
22.5°	1240.5	1231.3	1223.7	1217.8	1213.5	1212.9	1214.8	1220.0	1228.3	1239.3	1249.6
23°	1233.8	1224.0	1216.3	1209.8	1205.7	1205.4	1207.0	1212.5	1221.1	1232.1	1243.3
23.5°	1226.4	1216.2	1208.2	1201.7	1198.1	1196.6	1198.7	1204.4	1213.5	1224.4	1236.2
24°	1219.4	1208.9	1200.2	1192.9	1189.4	1187.9	1189.9	1196.5	1205.3	1216.8	1228.7
24.5°	1211.9	1201.4	1191.9	1184.5	1181.0	1179.0	1182.0	1189.0	1198.0	1209.3	1221.7
25°	1205.4	1193.6	1184.5	1176.6	1172.8	1170.6	1173.5	1180.7	1190.0	1201.7	1214.1
25.5°	1196.9	1185.5	1176.2	1168.0	1163.5	1162.0	1164.8	1171.6	1181.3	1193.6	1207.0
26°	1189.0	1177.3	1167.3	1159.5	1155.0	1153.0	1156.1	1163.0	1173.6	1186.1	1199.6
26.5°	1181.3	1169.2	1158.6	1150.7	1146.3	1144.1	1146.7	1154.3	1165.0	1178.1	1191.6
27°	1173.8	1161.5	1150.3	1141.4	1136.7	1135.4	1137.8	1145.2	1156.4	1169.6	1183.7
27.5°	1165.6	1152.3	1141.4	1132.1	1126.9	1126.4	1128.9	1136.1	1147.5	1161.7	1175.5
28°	1156.9	1143.9	1132.7	1123.1	1118.2	1116.7	1119.9	1127.9	1139.2	1153.1	1167.9
28.5°	1149.0	1135.8	1124.0	1114.5	1108.9	1107.1	1110.1	1118.4	1130.3	1144.3	1159.0
29°	1140.7	1126.7	1114.8	1104.7	1099.1	1098.3	1101.3	1108.6	1120.6	1135.4	1150.9
29.5°	1132.2	1117.6	1105.5	1095.3	1089.8	1088.0	1090.6	1099.3	1111.7	1127.1	1143.0
30°	1123.5	1108.6	1096.2	1085.8	1079.8	1078.2	1081.6	1090.1	1102.7	1118.5	1134.4
30.5°	1114.6	1099.8	1086.9	1076.2	1070.5	1068.4	1071.6	1080.3	1093.1	1109.1	1125.5
31°	1105.8	1090.6	1077.4	1066.6	1060.7	1058.5	1062.2	1070.9	1083.8	1099.9	1117.2
31.5°	1096.8	1081.4	1067.9	1056.8	1050.4	1048.3	1052.1	1061.3	1074.6	1091.1	1108.1
32°	1087.6	1072.3	1058.5	1046.5	1040.2	1038.0	1041.9	1051.1	1065.3	1081.9	1099.3
32.5°	1079.0	1062.9	1048.6	1036.2	1029.9	1027.8	1031.7	1041.0	1055.6	1072.8	1090.3
33°	1069.6	1053.1	1038.8	1025.9	1019.7	1017.5	1021.5	1030.8	1045.6	1063.6	1081.5
33.5°	1059.9	1043.2	1028.9	1015.6	1009.4	1007.3	1011.4	1020.6	1035.5	1054.0	1072.3
34°	1051.8	1033.5	1019.2	1005.9	998.5	996.9	1000.4	1010.3	1025.5	1044.3	1063.0
34.5°	1041.9	1023.8	1009.2	996.2	988.3	986.0	990.1	1000.5	1015.6	1034.6	1054.1
35°	1032.0	1013.8	998.3	985.7	978.0	975.4	979.8	990.4	1005.6	1024.8	1044.6
35.5°	1022.3	1003.9	988.2	975.4	967.5	965.0	969.3	980.2	995.3	1015.1	1035.1
36°	1012.4	994.2	978.2	964.3	956.5	954.2	958.4	968.7	985.0	1005.3	1025.6
36.5°	1002.5	983.9	967.1	953.7	945.4	943.6	947.7	958.6	974.5	994.7	1016.0
37°	992.5	973.1	956.9	943.4	934.6	932.3	936.7	948.2	964.2	984.5	1006.1
37.5°	982.5	962.9	946.4	932.7	924.5	921.6	926.1	937.2	953.4	974.1	996.1
38°	972.0	952.4	935.6	921.4	913.1	911.2	915.0	926.7	943.4	964.0	985.5
38.5°	961.9	942.2	925.0	910.9	902.4	899.5	904.4	915.9	932.7	953.8	975.5
39°	951.8	931.9	914.2	899.9	891.6	889.0	893.8	905.3	922.2	943.5	965.5
39.5°	941.3	921.7	903.8	889.1	880.9	877.9	882.3	894.2	911.3	932.9	955.5
40°	931.3	910.9	893.1	878.5	869.5	866.9	871.7	883.4	900.5	922.4	945.2
40.5°	920.9	900.2	882.3	867.4	858.4	855.9	860.1	872.1	890.3	911.9	935.2
41°	910.5	889.5	871.4	856.1	847.4	844.8	849.7	861.6	879.2	901.4	924.5
41.5°	899.9	879.0	860.7	845.6	836.5	834.0	838.3	850.8	868.6	890.9	914.2
42°	889.2	868.1	849.5	834.6	825.1	822.6	827.6	839.5	857.7	879.9	904.2
42.5°	879.0	857.7	838.7	823.5	814.2	811.8	816.4	828.7	847.2	869.1	893.1
43°	868.6	846.6	828.0	812.5	802.8	800.9	805.7	817.9	836.3	858.8	882.8
43.5°	857.7	836.0	817.0	801.3	792.3	789.6	794.4	806.5	824.8	848.2	872.2



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
45°	825.3	802.9	783.8	768.5	759.4	756.3	760.9	773.7	791.9	815.6	840.3
45.5°	814.6	792.3	773.4	757.3	748.2	745.4	750.4	762.9	781.1	804.6	829.4
46°	803.7	781.6	762.1	746.6	737.0	734.9	739.5	752.2	770.7	793.8	818.8
46.5°	792.8	770.6	751.3	735.6	726.2	723.8	728.5	741.4	759.9	782.9	807.7
47°	782.1	759.4	740.2	724.7	715.0	712.7	717.7	730.0	748.7	771.9	797.3
47.5°	770.9	748.6	729.5	713.8	704.3	702.1	706.8	719.2	737.7	761.1	786.2
48°	759.7	738.0	718.1	702.8	693.6	690.9	695.5	708.1	726.8	750.0	775.1
48.5°	748.8	726.9	707.6	692.2	683.0	680.1	685.1	697.3	715.8	739.2	764.0
49°	738.1	715.9	696.7	681.5	671.8	669.3	674.5	686.9	705.5	728.7	753.1
49.5°	727.7	705.0	686.1	670.8	661.0	659.1	663.6	676.1	694.2	717.7	742.6
50°	715.8	694.1	675.0	659.8	650.3	648.1	653.3	665.1	683.9	706.5	731.8
50.5°	705.4	683.2	663.7	648.9	640.1	637.6	642.0	654.2	672.8	695.6	720.7
51°	694.3	672.1	653.4	638.5	629.2	627.5	631.8	643.8	661.7	684.8	710.0
51.5°	683.1	661.3	642.9	628.0	618.7	616.7	621.4	633.6	651.3	674.1	698.8
52°	671.9	650.9	632.3	617.5	608.2	606.1	610.9	623.2	640.8	663.8	688.0
52.5°	661.1	640.1	621.6	606.9	598.1	596.3	600.4	612.6	630.4	652.9	677.1
53°	650.3	629.3	610.6	596.3	587.5	585.9	590.2	602.0	619.7	642.0	666.3
53.5°	639.5	618.5	600.0	585.9	577.1	575.3	580.2	591.4	609.2	631.3	655.9
54°	628.6	607.9	589.4	575.6	567.0	564.6	569.4	580.8	598.5	620.5	644.9
54.5°	617.7	596.8	578.9	565.1	556.7	554.9	559.6	570.6	588.1	609.7	633.6
55°	606.7	585.9	568.6	555.0	546.4	544.7	549.2	560.5	577.5	599.4	622.8
55.5°	596.2	575.5	558.1	544.7	536.8	534.9	539.4	550.3	567.1	588.7	611.7
56°	585.1	564.9	547.6	534.6	526.6	525.0	529.3	539.9	556.6	578.1	601.2
56.5°	574.1	554.1	537.6	524.6	516.3	514.7	519.4	530.1	546.6	567.5	590.2
57°	563.4	543.7	527.0	514.4	506.5	505.2	509.5	520.3	536.1	556.7	579.5
57.5°	552.3	533.4	517.1	504.2	496.6	495.1	499.2	509.9	526.0	546.2	568.6
58°	541.7	522.7	506.7	494.3	487.2	485.5	489.8	499.9	515.7	535.6	557.9
58.5°	530.7	512.6	496.7	484.4	477.3	476.0	480.1	490.1	505.7	525.4	547.5
59°	520.1	502.2	486.4	474.8	467.4	466.2	470.3	480.4	495.6	515.1	536.8
59.5°	509.5	491.6	476.7	464.8	457.6	456.5	461.1	470.6	485.8	504.6	526.1
60°	498.7	481.5	466.9	455.0	448.6	447.4	451.3	460.8	475.6	494.4	515.1
60.5°	488.3	471.2	456.8	445.3	438.9	437.6	441.7	451.1	465.8	484.1	504.3
61°	477.4	461.0	446.8	435.7	429.3	428.4	432.1	441.6	455.8	473.9	494.1
61.5°	466.9	450.8	437.1	426.6	420.6	419.1	423.1	432.2	446.2	463.7	483.2
62°	456.1	440.7	427.6	416.9	410.9	410.0	413.7	422.9	436.3	453.7	472.7
62.5°	445.9	430.7	417.7	407.4	401.5	400.9	404.5	413.3	426.7	443.7	462.3
63°	435.6	420.8	407.8	398.0	392.5	391.7	395.3	403.9	416.9	433.5	451.8
63.5°	425.3	410.6	398.2	388.7	383.6	382.7	386.3	394.6	407.4	423.7	441.7
64°	414.6	400.7	389.2	379.6	374.6	373.8	377.1	385.5	397.7	413.8	431.1
64.5°	404.4	390.9	379.5	370.3	365.3	364.9	368.3	376.2	388.3	403.7	420.9
65°	394.1	381.1	370.0	361.4	356.7	356.0	359.5	367.3	379.0	394.0	410.6
65.5°	383.9	371.4	361.0	352.5	347.8	347.2	350.7	358.2	369.9	384.2	400.3
66°	374.0	361.8	351.8	343.3	338.8	338.3	341.5	349.0	360.3	374.6	390.0



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
67.5°	343.2	332.7	323.7	316.9	313.1	312.6	315.8	322.6	332.7	345.6	359.4
68°	333.3	323.3	314.7	308.0	304.7	304.4	307.4	314.0	323.5	336.1	349.7
68.5°	323.5	313.8	305.7	299.5	296.3	295.7	298.9	305.4	314.7	326.7	339.9
69°	313.6	304.4	296.9	291.0	287.8	287.7	290.4	296.8	305.7	317.3	330.1
69.5°	303.8	295.2	288.0	282.3	279.2	279.2	282.0	288.2	296.8	307.8	320.0
70°	294.2	286.0	279.3	273.8	271.2	271.3	273.9	279.6	287.9	298.4	310.1
70.5°	284.1	276.8	270.5	265.7	263.1	263.2	265.8	271.2	279.1	289.4	300.1
71°	274.6	267.7	262.0	257.4	255.1	255.1	257.6	262.9	270.6	280.1	290.8
71.5°	265.2	258.7	253.4	249.1	246.9	247.1	249.7	254.6	262.0	271.1	281.0
72°	255.7	249.9	244.9	241.0	239.1	239.5	241.8	246.5	253.5	262.2	271.6
72.5°	246.2	241.0	236.5	233.0	231.3	231.5	234.0	238.5	245.0	253.2	261.9
73°	237.0	232.3	228.1	224.9	223.3	223.7	226.0	230.4	236.4	244.3	253.0
73.5°	227.7	223.6	219.7	217.0	215.8	216.0	218.4	222.3	228.2	235.5	243.4
74°	218.5	214.8	211.8	209.4	208.1	208.9	210.7	214.6	220.0	226.9	234.1
74.5°	209.4	206.4	203.6	201.8	200.7	201.3	203.3	207.0	212.0	218.2	224.7
75°	200.6	198.1	195.8	194.0	193.2	193.9	195.8	199.2	203.9	209.6	216.0
75.5°	191.9	189.8	187.8	186.6	186.0	186.6	188.4	191.5	195.8	201.2	207.0
76°	182.9	181.6	180.3	179.1	178.6	179.4	181.1	184.2	188.2	192.9	198.1
76.5°	174.4	173.4	172.6	171.8	171.5	172.3	174.0	176.8	180.3	184.6	189.3
77°	166.0	165.5	165.2	164.6	164.5	165.3	166.9	169.4	172.7	176.4	180.7
77.5°	157.4	157.7	157.6	157.7	157.8	158.6	160.2	162.3	165.3	168.5	171.7
78°	149.3	150.2	150.4	150.7	151.2	151.9	153.3	155.4	158.0	160.7	163.5
78.5°	141.4	142.9	143.4	143.9	144.6	145.4	146.7	148.5	150.6	153.0	155.1
79°	133.5	135.3	136.5	137.3	138.0	139.0	140.2	141.8	143.5	145.3	147.1
79.5°	126.0	128.3	129.8	130.9	131.8	132.7	134.0	135.3	136.6	138.0	138.8
80°	118.6	121.7	123.6	124.9	126.0	126.8	127.7	128.7	130.0	130.7	131.2
80.5°	111.2	115.0	117.4	119.1	120.3	121.1	122.0	122.7	123.8	123.8	123.8
81°	103.8	108.4	111.2	113.2	114.5	115.4	116.2	116.9	117.5	117.2	116.5
81.5°	96.9	101.7	104.9	107.3	108.8	109.7	110.5	111.1	111.3	110.5	109.2
82°	90.5	95.3	98.8	101.4	103.0	104.0	104.7	105.3	105.0	103.8	101.9
82.5°	83.9	89.3	93.1	95.8	97.7	98.7	99.4	99.5	98.8	97.4	94.8
83°	77.6	83.3	87.5	90.5	92.4	93.5	94.1	94.0	93.0	91.2	88.3
83.5°	71.6	77.6	82.1	85.2	87.2	88.3	88.9	88.6	87.5	85.1	81.7
84°	65.9	72.1	76.8	80.2	82.2	83.5	83.9	83.5	82.0	79.3	75.5
84.5°	60.3	67.0	71.9	75.3	77.5	78.7	79.0	78.5	76.8	73.8	69.4
85°	55.2	62.0	67.0	70.6	72.9	74.1	74.4	73.6	71.7	68.5	63.8
85.5°	50.3	57.2	62.4	66.1	68.4	69.5	69.7	69.0	66.8	63.3	58.4
86°	45.6	52.5	57.9	61.8	64.1	65.3	65.5	64.6	62.1	58.4	53.2
86.5°	41.2	48.3	53.8	57.6	60.0	61.2	61.3	60.2	57.8	53.7	48.2
87°	37.1	44.3	49.7	53.7	56.2	57.3	57.4	56.1	53.5	49.4	43.6
87.5°	33.3	40.5	46.0	50.0	52.4	53.6	53.5	52.3	49.5	45.2	39.3
88°	29.9	37.0	42.5	46.5	48.9	50.0	50.0	48.6	45.7	41.4	35.3
88.5°	26.7	33.7	39.2	43.2	45.5	46.7	46.6	45.1	42.2	37.8	31.7



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
90°	19.1	25.4	30.5	34.3	36.8	37.8	37.5	35.9	32.8	28.3	22.4
90.5°	17.1	23.1	28.1	31.8	34.2	35.1	34.9	33.3	30.2	25.7	19.9
91°	15.4	21.1	25.9	29.6	31.8	32.8	32.5	30.8	27.8	23.4	17.8
91.5°	14.0	19.3	23.9	27.4	29.7	30.5	30.2	28.6	25.6	21.3	15.9
92°	13.1	17.8	22.2	25.5	27.6	28.5	28.1	26.5	23.6	19.5	14.3
92.5°	12.2	16.5	20.6	23.8	25.8	26.6	26.2	24.6	21.8	17.8	13.3
93°	11.4	15.3	19.2	22.2	24.1	24.9	24.5	23.0	20.2	16.4	12.4
93.5°	10.6	14.3	18.0	20.8	22.7	23.4	23.0	21.5	18.8	15.2	11.4
94°	9.7	13.5	17.0	19.7	21.4	22.1	21.7	20.2	17.6	14.2	10.5
94.5°	9.2	12.9	16.1	18.7	20.3	20.9	20.5	19.0	16.6	13.3	9.6
95°	8.9	12.3	15.4	17.8	19.3	19.8	19.4	18.1	15.7	12.6	9.1
95.5°	8.6	11.8	14.7	17.0	18.4	18.9	18.5	17.2	14.9	12.0	8.7
96°	8.3	11.5	14.1	16.3	17.6	18.1	17.7	16.4	14.2	11.5	8.4
96.5°	8.0	11.1	13.6	15.6	16.9	17.3	17.0	15.8	13.7	11.1	8.1
97°	7.9	10.8	13.2	15.0	16.2	16.7	16.3	15.2	13.2	10.7	7.7
97.5°	7.7	10.4	12.7	14.5	15.7	16.1	15.8	14.7	12.8	10.2	7.4
98°	7.6	10.1	12.3	14.1	15.2	15.6	15.3	14.3	12.5	9.8	7.1
98.5°	7.5	9.9	12.0	13.7	14.7	15.1	14.9	13.8	12.0	9.4	6.8
99°	7.4	9.7	11.7	13.3	14.3	14.7	14.4	13.4	11.6	9.1	6.7
99.5°	7.3	9.5	11.5	13.0	13.9	14.3	14.0	13.0	11.3	8.8	6.6
100°	7.2	9.4	11.2	12.7	13.6	13.9	13.6	12.6	11.0	8.6	6.5
100.5°	7.1	9.2	11.0	12.4	13.3	13.6	13.2	12.2	10.6	8.5	6.4
101°	7.0	9.1	10.8	12.2	13.0	13.3	12.9	11.9	10.3	8.4	6.4
101.5°	6.9	9.0	10.7	11.9	12.7	13.0	12.5	11.6	10.0	8.2	6.3
102°	6.7	8.9	10.5	11.7	12.4	12.7	12.3	11.3	9.9	8.1	6.2
102.5°	6.6	8.8	10.3	11.5	12.2	12.4	12.0	11.2	9.7	8.0	6.1
103°	6.5	8.6	10.1	11.3	12.0	12.2	11.9	11.0	9.6	8.0	5.9
103.5°	6.3	8.5	10.0	11.2	11.8	12.1	11.7	10.9	9.5	7.9	5.7
104°	6.2	8.3	9.9	11.0	11.6	11.9	11.6	10.7	9.4	7.8	5.6
104.5°	6.0	8.2	9.7	10.8	11.5	11.7	11.4	10.6	9.3	7.6	5.4
105°	5.9	8.0	9.6	10.7	11.3	11.6	11.3	10.5	9.2	7.5	5.3
105.5°	5.8	7.8	9.4	10.5	11.2	11.4	11.2	10.3	9.0	7.3	5.1
106°	5.7	7.7	9.2	10.3	11.0	11.3	11.0	10.2	8.9	7.1	5.0
106.5°	5.5	7.5	9.0	10.1	10.8	11.1	10.9	10.0	8.7	6.9	4.8
107°	5.4	7.3	8.8	10.0	10.6	10.9	10.7	9.9	8.6	6.7	4.7
107.5°	5.3	7.2	8.6	9.8	10.4	10.7	10.5	9.7	8.3	6.5	4.6
108°	5.1	7.0	8.4	9.6	10.2	10.5	10.3	9.5	8.1	6.4	4.5
108.5°	5.0	6.9	8.3	9.4	10.0	10.3	10.1	9.3	7.9	6.2	4.3
109°	4.9	6.7	8.1	9.2	9.8	10.1	9.9	9.0	7.7	6.0	4.2
109.5°	4.7	6.6	8.0	9.0	9.6	9.9	9.7	8.8	7.5	5.9	4.1
110°	4.6	6.4	7.8	8.7	9.4	9.7	9.4	8.6	7.3	5.7	4.0
110.5°	4.4	6.3	7.6	8.6	9.2	9.4	9.2	8.4	7.1	5.6	3.9
111°	4.3	6.1	7.4	8.4	9.0	9.2	9.0	8.2	6.9	5.5	3.8



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	3.8	5.6	7.0	7.8	8.3	8.6	8.4	7.6	6.4	5.1	3.4
113°	3.7	5.4	6.8	7.6	8.2	8.4	8.2	7.4	6.2	5.0	3.3
113.5°	3.6	5.3	6.6	7.5	8.0	8.2	8.0	7.2	6.1	4.8	3.2
114°	3.4	5.1	6.5	7.3	7.8	8.0	7.8	7.0	5.9	4.7	3.1
114.5°	3.3	4.9	6.3	7.1	7.6	7.8	7.6	6.9	5.8	4.6	3.0
115°	3.2	4.7	6.1	7.0	7.5	7.6	7.4	6.7	5.6	4.4	2.9
115.5°	3.2	4.6	5.9	6.8	7.3	7.4	7.2	6.5	5.4	4.3	2.8
116°	3.1	4.4	5.8	6.7	7.1	7.2	7.0	6.3	5.3	4.1	2.8
116.5°	3.1	4.2	5.6	6.5	7.0	7.1	6.8	6.1	5.1	4.0	2.7
117°	3.0	4.1	5.4	6.3	6.8	6.9	6.7	6.0	5.0	3.8	2.7
117.5°	3.0	3.9	5.2	6.1	6.7	6.7	6.5	5.8	4.8	3.7	2.6
118°	2.9	3.8	5.0	6.0	6.5	6.6	6.3	5.6	4.6	3.6	2.6
118.5°	2.9	3.7	4.8	5.8	6.3	6.4	6.1	5.5	4.4	3.5	2.5
119°	2.8	3.6	4.6	5.6	6.1	6.2	6.0	5.3	4.2	3.4	2.4
119.5°	2.7	3.5	4.4	5.3	5.9	6.0	5.8	5.1	4.1	3.3	2.2
120°	2.6	3.4	4.2	5.1	5.7	5.9	5.6	4.9	3.9	3.2	2.2
120.5°	2.4	3.3	4.1	4.9	5.5	5.6	5.4	4.7	3.8	3.1	2.1
121°	2.3	3.2	4.0	4.7	5.3	5.4	5.2	4.5	3.7	3.0	2.1
121.5°	2.3	3.1	3.9	4.6	5.1	5.2	5.0	4.3	3.6	2.9	2.0
122°	2.3	3.1	3.8	4.4	4.9	5.0	4.8	4.2	3.5	2.9	2.0
122.5°	2.3	3.1	3.7	4.2	4.7	4.8	4.6	4.1	3.4	2.8	2.1
123°	2.4	3.0	3.6	4.1	4.5	4.6	4.4	3.9	3.3	2.6	2.1
123.5°	2.4	2.9	3.5	4.0	4.4	4.5	4.3	3.8	3.2	2.5	2.2
124°	2.5	2.8	3.4	3.9	4.2	4.3	4.2	3.7	3.1	2.3	2.2
124.5°	2.5	2.6	3.3	3.8	4.1	4.2	4.0	3.6	3.0	2.2	2.2
125°	2.6	2.5	3.2	3.7	4.0	4.0	3.9	3.5	2.9	2.1	2.3
125.5°	2.6	2.3	3.1	3.6	3.9	3.9	3.8	3.4	2.9	2.0	2.3
126°	2.7	2.2	3.0	3.5	3.8	3.8	3.7	3.4	2.7	1.9	2.3
126.5°	2.7	2.3	2.9	3.4	3.7	3.7	3.6	3.3	2.6	1.9	2.4
127°	2.8	2.3	2.8	3.3	3.6	3.6	3.5	3.2	2.4	1.9	2.4
127.5°	2.8	2.3	2.7	3.2	3.5	3.5	3.5	3.1	2.3	2.0	2.4
128°	2.9	2.4	2.5	3.1	3.4	3.5	3.4	3.0	2.2	2.0	2.4
128.5°	2.9	2.4	2.4	3.0	3.3	3.4	3.3	2.9	2.2	2.0	2.4
129°	3.0	2.5	2.3	2.8	3.2	3.3	3.2	2.7	2.1	2.1	2.4
129.5°	3.0	2.5	2.2	2.7	3.1	3.2	3.1	2.5	2.0	2.1	2.4
130°	3.0	2.5	2.3	2.6	2.9	3.0	2.9	2.4	2.0	2.2	2.5
130.5°	3.0	2.6	2.3	2.4	2.8	2.9	2.7	2.3	2.1	2.2	2.5
131°	3.1	2.6	2.3	2.3	2.7	2.7	2.6	2.2	2.1	2.2	2.5
131.5°	3.1	2.7	2.4	2.2	2.5	2.6	2.5	2.1	2.2	2.3	2.5
132°	3.1	2.7	2.4	2.2	2.4	2.5	2.3	2.1	2.2	2.3	2.5
132.5°	3.2	2.7	2.5	2.3	2.2	2.3	2.2	2.2	2.2	2.4	2.6
133°	3.2	2.8	2.5	2.3	2.2	2.2	2.2	2.2	2.3	2.4	2.7
133.5°	3.3	2.9	2.5	2.3	2.2	2.2	2.2	2.2	2.3	2.5	2.8



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
157.5°	3.7	3.5	3.4	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.0
158°	3.6	3.4	3.4	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.1
158.5°	3.3	3.4	3.4	3.3	3.2	3.3	3.3	3.3	3.2	3.2	3.1
159°	3.2	3.3	3.5	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.1
159.5°	3.2	3.3	3.5	3.4	3.3	3.3	3.3	3.3	3.4	3.3	3.2
160°	3.2	3.4	3.6	3.5	3.4	3.3	3.3	3.4	3.4	3.3	3.2
160.5°	3.2	3.4	3.6	3.5	3.4	3.4	3.4	3.4	3.5	3.4	3.2
161°	3.2	3.3	3.5	3.6	3.4	3.4	3.4	3.5	3.5	3.4	3.3
161.5°	3.2	3.2	3.4	3.6	3.5	3.5	3.5	3.5	3.6	3.5	3.3
162°	3.1	3.2	3.4	3.6	3.5	3.5	3.5	3.6	3.6	3.5	3.3
162.5°	3.1	3.2	3.4	3.7	3.6	3.6	3.6	3.6	3.7	3.5	3.3
163°	3.1	3.2	3.4	3.7	3.7	3.6	3.6	3.7	3.7	3.5	3.3
163.5°	3.1	3.2	3.3	3.6	3.7	3.7	3.7	3.7	3.7	3.5	3.4
164°	3.0	3.2	3.2	3.5	3.7	3.7	3.7	3.8	3.7	3.6	3.3
164.5°	3.0	3.2	3.2	3.4	3.7	3.8	3.8	3.8	3.7	3.7	2.9
165°	3.0	3.1	3.2	3.4	3.8	3.8	3.8	3.8	3.8	3.4	2.8
165.5°	3.0	3.1	3.2	3.3	3.7	3.8	3.8	3.8	3.7	2.9	3.2
166°	2.9	3.1	3.2	3.2	3.7	3.8	3.8	3.9	3.7	3.0	3.3
166.5°	2.9	3.2	3.1	3.1	3.6	3.8	3.8	3.9	3.7	3.4	2.9
167°	2.9	3.3	3.2	3.1	3.5	3.8	3.8	3.9	3.3	3.3	2.6
167.5°	2.9	3.4	3.2	3.1	3.5	3.8	3.8	3.9	2.9	2.8	2.9
168°	2.9	3.4	3.3	3.1	3.4	3.8	3.8	3.8	3.2	2.6	3.3
168.5°	3.0	3.4	3.5	3.1	3.2	3.8	3.8	3.8	3.5	3.2	3.0
169°	3.0	3.4	3.5	3.2	3.1	3.8	3.8	3.7	2.8	3.3	3.0
169.5°	3.0	3.3	3.5	3.2	3.0	3.7	3.7	3.5	2.5	3.2	3.2
170°	3.1	3.3	3.4	3.3	3.0	3.5	3.7	3.0	3.3	3.3	3.1
170.5°	3.1	3.2	3.3	3.4	3.0	3.5	3.7	2.9	3.4	3.3	3.1
171°	3.1	3.2	3.3	3.4	3.0	3.4	3.6	2.9	3.2	3.3	3.1
171.5°	3.0	3.1	3.2	3.3	3.0	3.3	3.6	2.5	3.3	3.2	3.1
172°	3.0	3.1	3.2	3.3	3.1	2.9	3.5	2.7	3.3	3.2	3.0
172.5°	3.0	3.1	3.1	3.2	3.2	2.9	3.3	3.1	3.2	3.1	3.0
173°	2.9	3.0	3.1	3.2	3.2	2.8	3.2	3.1	3.2	3.0	2.9
173.5°	2.9	3.0	3.0	3.1	3.1	2.7	2.7	3.1	3.0	2.9	2.8
174°	2.9	3.0	3.0	3.1	3.1	2.7	2.4	3.0	3.0	2.9	2.8
174.5°	2.9	2.9	3.0	3.0	3.1	2.6	2.2	3.0	2.9	2.8	2.8
175°	2.9	2.9	2.9	3.0	3.0	2.6	2.6	2.9	2.8	2.8	2.7
175.5°	2.9	2.9	2.9	2.9	2.9	2.6	2.9	2.8	2.7	2.7	2.7
176°	2.8	2.9	2.9	2.9	2.9	2.5	2.8	2.7	2.7	2.7	2.7
176.5°	2.8	2.8	2.8	2.8	2.8	2.5	2.7	2.7	2.7	2.7	2.7
177°	2.8	2.7	2.7	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7
177.5°	2.7	2.7	2.6	2.6	2.7	1.1	2.7	2.7	2.7	2.7	2.7
178°	2.6	2.6	2.7	2.7	2.7	1.6	2.7	2.7	2.7	2.7	2.6
178.5°	2.7	2.7	2.7	2.7	2.5	2.1	2.5	2.7	2.7	2.7	2.7



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1409.5	1409.5	1409.5	1409.5
0.5°	1409.2	1409.2	1409.2	1409.2
1°	1409.0	1409.0	1409.0	1409.0
1.5°	1408.7	1408.8	1408.8	1409.1
2°	1407.5	1408.1	1408.6	1408.8
2.5°	1406.3	1406.6	1407.8	1408.3
3°	1405.3	1406.1	1407.2	1407.3
3.5°	1404.6	1405.9	1406.2	1406.4
4°	1403.7	1405.1	1405.1	1405.8
4.5°	1401.7	1403.3	1403.6	1404.2
5°	1400.5	1401.6	1402.7	1403.3
5.5°	1399.5	1400.0	1401.4	1402.4
6°	1397.2	1399.1	1399.8	1401.3
6.5°	1395.1	1396.4	1398.2	1399.8
7°	1394.1	1394.5	1397.1	1398.4
7.5°	1391.5	1393.2	1394.0	1396.5
8°	1388.7	1390.6	1392.9	1395.0
8.5°	1385.9	1388.1	1390.9	1392.4
9°	1383.6	1385.6	1388.3	1390.9
9.5°	1380.9	1383.1	1385.7	1388.3
10°	1377.6	1379.8	1383.3	1385.5
10.5°	1374.8	1377.7	1380.1	1383.0
11°	1371.5	1375.2	1378.2	1380.1
11.5°	1368.2	1371.9	1375.5	1377.1
12°	1365.0	1368.6	1372.7	1374.2
12.5°	1361.1	1365.1	1369.2	1371.5
13°	1357.2	1361.4	1365.8	1368.3
13.5°	1353.5	1357.7	1362.6	1364.6
14°	1349.4	1354.1	1358.6	1361.2
14.5°	1345.2	1350.8	1354.8	1357.8
15°	1340.8	1346.4	1350.9	1353.9
15.5°	1336.2	1341.8	1346.9	1350.3
16°	1331.5	1337.6	1343.3	1345.9
16.5°	1326.7	1332.9	1339.3	1341.1
17°	1322.1	1328.3	1334.5	1336.6
17.5°	1317.1	1323.7	1329.3	1332.9
18°	1312.3	1319.2	1324.7	1328.8
18.5°	1307.2	1314.4	1320.1	1323.6
19°	1301.6	1309.2	1315.3	1318.7
19.5°	1295.4	1303.9	1310.2	1313.7
20°	1289.8	1298.4	1304.8	1308.8
20.5°	1284.5	1292.6	1299.6	1303.8
21°	1279.0	1286.8	1293.9	1298.8



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
22.5°	1259.7	1269.3	1277.3	1281.5
23°	1253.2	1263.1	1271.1	1276.4
23.5°	1246.7	1256.6	1264.8	1270.0
24°	1240.0	1250.4	1258.7	1263.9
24.5°	1233.0	1243.9	1252.6	1258.1
25°	1226.3	1237.0	1246.2	1251.9
25.5°	1218.7	1230.5	1239.3	1245.2
26°	1212.2	1223.5	1232.7	1238.6
26.5°	1204.7	1216.4	1225.9	1231.8
27°	1197.3	1209.3	1218.7	1225.0
27.5°	1189.5	1202.6	1211.7	1218.2
28°	1181.9	1194.6	1204.7	1210.8
28.5°	1174.0	1187.2	1197.4	1203.7
29°	1165.6	1179.4	1190.0	1197.1
29.5°	1158.3	1171.4	1182.3	1189.7
30°	1150.2	1164.1	1174.7	1181.9
30.5°	1141.6	1155.8	1167.1	1174.5
31°	1132.9	1148.0	1159.2	1166.9
31.5°	1124.9	1139.3	1151.1	1159.0
32°	1116.1	1131.1	1142.8	1150.5
32.5°	1107.6	1122.7	1134.7	1142.4
33°	1099.1	1114.6	1126.3	1134.5
33.5°	1090.6	1106.5	1117.8	1126.1
34°	1081.2	1097.5	1109.4	1117.4
34.5°	1072.4	1088.4	1100.5	1108.5
35°	1063.5	1079.8	1092.1	1100.3
35.5°	1054.0	1070.7	1083.2	1091.8
36°	1044.7	1061.8	1074.2	1082.9
36.5°	1035.4	1052.5	1066.0	1073.8
37°	1026.1	1043.1	1057.0	1065.0
37.5°	1016.9	1033.9	1048.1	1056.3
38°	1007.2	1024.6	1038.2	1047.7
38.5°	996.6	1015.3	1028.4	1037.9
39°	986.5	1005.6	1018.6	1027.8
39.5°	976.7	995.6	1008.9	1017.9
40°	966.9	985.9	999.8	1008.3
40.5°	957.1	976.2	990.4	999.2
41°	946.7	966.1	980.3	989.5
41.5°	936.7	955.8	970.6	979.4
42°	926.1	945.8	960.6	969.8
42.5°	915.8	935.8	950.3	960.1
43°	905.4	925.3	940.1	949.9
43.5°	895.1	914.9	930.2	939.3



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
45°	863.3	884.2	899.2	908.5
45.5°	852.9	873.5	888.4	898.4
46°	842.1	863.0	878.0	887.6
46.5°	831.5	852.4	867.2	876.5
47°	821.1	841.8	856.8	865.8
47.5°	810.0	831.2	846.1	855.5
48°	799.4	819.8	835.1	845.1
48.5°	788.2	809.4	824.5	834.0
49°	777.5	798.6	813.9	823.7
49.5°	766.8	787.4	802.8	812.7
50°	755.6	776.4	791.7	801.7
50.5°	744.7	765.7	780.7	790.4
51°	734.3	754.4	769.9	779.6
51.5°	723.3	743.8	759.1	768.5
52°	712.0	732.6	747.6	757.7
52.5°	701.0	721.5	736.8	746.3
53°	689.9	710.5	725.4	735.2
53.5°	679.2	699.3	714.4	724.0
54°	668.3	688.2	703.2	712.9
54.5°	657.4	677.1	692.0	701.5
55°	646.6	666.1	680.8	690.0
55.5°	634.8	655.2	669.5	679.1
56°	623.9	643.4	658.0	667.5
56.5°	613.2	632.7	647.1	656.3
57°	602.3	621.4	635.7	645.4
57.5°	591.0	610.3	624.6	633.6
58°	580.0	598.6	612.9	622.1
58.5°	569.0	587.6	601.6	611.0
59°	558.5	576.3	590.4	599.4
59.5°	547.1	565.2	579.2	588.1
60°	536.2	553.9	567.9	576.4
60.5°	525.0	542.9	556.4	565.1
61°	514.4	531.8	544.8	553.7
61.5°	503.3	520.5	533.4	542.3
62°	492.4	509.4	522.1	530.8
62.5°	481.6	498.4	510.7	519.4
63°	471.0	487.1	499.3	507.9
63.5°	459.9	475.9	488.1	496.6
64°	448.9	464.8	476.6	485.0
64.5°	438.2	453.7	465.6	473.2
65°	427.8	442.4	454.2	461.6
65.5°	416.7	431.5	442.7	449.9
66°	406.5	420.7	431.4	438.2



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
67.5°	374.5	387.7	397.8	404.1
68°	363.8	376.4	386.3	392.9
68.5°	353.2	365.7	374.9	381.4
69°	343.1	354.5	364.0	370.0
69.5°	332.6	343.6	352.7	358.7
70°	322.1	333.0	341.7	347.3
70.5°	311.8	322.2	330.5	336.0
71°	301.6	311.4	319.5	324.9
71.5°	291.3	300.6	308.3	313.6
72°	281.2	290.1	297.2	302.6
72.5°	271.0	279.6	286.1	291.5
73°	261.0	268.8	275.4	280.2
73.5°	251.3	258.6	264.6	268.8
74°	241.4	248.0	253.8	258.1
74.5°	231.4	237.7	243.0	247.2
75°	221.7	227.1	232.2	236.4
75.5°	212.1	217.2	221.5	225.3
76°	202.8	206.9	211.4	214.7
76.5°	193.3	197.1	200.7	204.1
77°	184.0	187.1	190.5	193.6
77.5°	174.7	177.5	180.2	183.0
78°	165.7	167.5	170.2	172.9
78.5°	156.9	158.2	159.9	162.5
79°	148.1	148.9	150.2	152.3
79.5°	139.5	139.8	140.8	142.4
80°	131.5	131.1	131.6	133.0
80.5°	123.4	122.5	122.5	123.2
81°	115.4	113.8	113.4	113.8
81.5°	107.4	105.1	104.2	104.5
82°	99.4	96.5	95.1	95.5
82.5°	91.9	88.6	86.5	86.2
83°	84.4	80.8	78.5	78.1
83.5°	77.4	73.1	70.3	69.9
84°	70.6	65.7	62.5	62.1
84.5°	64.2	58.8	55.1	54.3
85°	57.9	52.2	48.2	47.2
85.5°	52.2	45.9	41.4	41.1
86°	46.7	40.0	35.2	34.9
86.5°	41.5	34.5	29.4	28.8
87°	36.6	29.4	24.0	22.7
87.5°	32.2	24.8	20.3	17.4
88°	28.2	20.7	16.5	12.6
88.5°	24.5	18.0	12.7	8.5



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
90°	15.7	9.8	3.6	2.7
90.5°	14.1	7.2	2.4	1.5
91°	12.6	5.9	1.8	0.3
91.5°	11.0	4.9	1.4	0.2
92°	9.5	4.3	1.2	0.2
92.5°	8.0	3.8	1.1	0.1
93°	7.3	3.5	1.0	0.1
93.5°	6.7	3.3	0.9	0.2
94°	6.3	3.1	0.9	0.2
94.5°	6.0	2.9	0.9	0.3
95°	5.7	2.8	0.9	0.3
95.5°	5.4	2.7	0.9	0.4
96°	5.1	2.7	0.9	0.4
96.5°	4.9	2.7	0.8	0.5
97°	4.7	2.7	0.8	0.5
97.5°	4.7	2.5	0.8	0.6
98°	4.6	2.4	0.8	0.6
98.5°	4.6	2.3	0.8	0.7
99°	4.6	2.3	0.8	0.7
99.5°	4.5	2.2	0.8	0.8
100°	4.4	2.2	0.9	0.9
100.5°	4.3	2.2	1.0	1.0
101°	4.2	2.2	1.0	1.1
101.5°	4.0	2.1	1.1	1.2
102°	3.9	2.1	1.1	1.2
102.5°	3.8	2.1	1.2	1.3
103°	3.6	2.0	1.3	1.4
103.5°	3.5	1.9	1.3	1.4
104°	3.4	1.8	1.4	1.4
104.5°	3.4	1.7	1.4	1.5
105°	3.3	1.7	1.5	1.5
105.5°	3.2	1.7	1.5	1.5
106°	3.2	1.6	1.6	1.5
106.5°	3.0	1.6	1.9	1.5
107°	2.9	1.5	2.0	1.5
107.5°	2.8	1.5	1.8	1.5
108°	2.7	1.4	1.8	1.5
108.5°	2.6	1.4	1.8	1.5
109°	2.5	1.4	1.8	1.5
109.5°	2.4	1.4	1.7	1.5
110°	2.3	1.5	1.7	1.5
110.5°	2.2	1.5	1.7	1.5
111°	2.2	1.5	1.7	1.5



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	2.0	1.6	1.8	1.5
113°	2.0	1.6	1.8	1.6
113.5°	1.9	1.7	1.8	1.6
114°	1.8	1.7	1.8	1.6
114.5°	1.8	1.8	1.8	1.6
115°	1.7	1.8	1.9	1.7
115.5°	1.7	1.8	1.9	1.7
116°	1.7	1.9	1.9	1.7
116.5°	1.7	1.9	1.9	1.7
117°	1.8	2.0	1.9	1.7
117.5°	1.8	2.1	1.9	1.7
118°	1.9	2.2	1.9	1.7
118.5°	1.9	2.3	1.9	1.7
119°	2.0	2.4	1.9	1.7
119.5°	2.0	2.4	1.9	1.7
120°	2.0	2.3	2.0	1.7
120.5°	2.1	2.3	2.0	1.8
121°	2.1	2.3	2.0	1.8
121.5°	2.1	2.3	2.0	1.8
122°	2.1	2.3	2.0	1.8
122.5°	2.2	2.3	2.0	1.8
123°	2.2	2.2	2.0	1.8
123.5°	2.2	2.2	2.1	1.9
124°	2.2	2.1	2.1	1.9
124.5°	2.3	2.1	2.1	1.9
125°	2.4	2.2	2.1	1.9
125.5°	2.5	2.3	2.2	1.9
126°	2.6	2.4	2.2	1.9
126.5°	2.7	2.5	2.2	2.0
127°	2.8	2.5	2.2	2.0
127.5°	2.9	2.5	2.3	2.0
128°	3.0	2.5	2.3	2.0
128.5°	3.0	2.6	2.3	2.0
129°	2.9	2.6	2.3	2.1
129.5°	2.9	2.6	2.3	2.1
130°	2.9	2.6	2.4	2.1
130.5°	2.9	2.5	2.3	2.1
131°	2.8	2.5	2.1	2.1
131.5°	2.8	2.5	2.1	2.1
132°	2.7	2.5	2.1	2.1
132.5°	2.7	2.5	2.2	2.1
133°	2.6	2.5	2.4	2.1
133.5°	2.6	2.5	2.4	2.1



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P563561

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
180°	2.4	2.4	2.4	2.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







21.5°	1293.4	1296.5	1296.2	1293.8	1289.1	1283.5	1277.5	1272.5	1268.3	1266.2	1265.3
22°	1287.2	1290.6	1290.5	1287.8	1283.1	1277.3	1270.7	1265.6	1261.8	1258.9	1258.3



44°	929.1	932.6	928.2	918.3	902.4	882.9	863.0	845.9	833.4	827.2	828.0
44.5°	918.9	921.7	918.1	907.7	891.8	871.8	852.3	835.0	822.4	816.3	816.3



66.5°	426.7	430.7	429.7	423.7	414.0	400.5	388.2	377.3	369.4	364.8	363.5
67°	415.3	419.0	418.6	413.1	403.4	390.8	379.0	368.2	360.3	356.0	355.1



89°	5.2	10.3	19.6	30.3	40.3	47.2	52.8	56.1	57.3	56.8	54.7
89.5°	3.9	7.2	16.1	26.4	36.3	43.7	49.3	52.1	53.4	53.0	51.0



111.5°	1.5	1.5	1.3	1.1	1.5	2.3	3.4	4.4	5.1	5.3	5.1
112°	1.5	1.5	1.3	1.2	1.5	2.2	3.2	4.2	4.9	5.1	4.9



134°	2.2	2.2	2.2	2.7	2.7	2.4	2.4	2.4	2.4	2.5	2.6
134.5°	2.2	2.2	2.2	2.7	2.8	2.4	2.4	2.5	2.5	2.6	2.7



156.5°	1.5	2.3	2.7	2.6	2.6	2.6	2.8	3.1	3.3	3.4	3.4
157°	1.5	2.3	2.7	2.7	2.6	2.7	2.8	3.0	3.2	3.3	3.3



179°	2.6	2.5	2.4	2.3	2.1	2.0	2.1	2.3	2.5	2.6	2.6
179.5°	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.5





21.5°	1266.6	1269.9	1272.8	1276.6	1280.1	1281.7	1281.8	1280.1	1276.2	1270.2	1262.6
22°	1259.5	1262.6	1266.4	1270.6	1274.4	1275.7	1276.0	1274.4	1270.0	1263.9	1256.1



44°	834.0	846.5	862.5	877.5	891.0	900.7	904.5	902.9	896.3	884.2	866.6
44.5°	823.3	835.9	851.6	866.4	880.3	890.0	893.3	892.6	886.1	873.6	855.6



66.5°	366.2	371.8	379.4	387.1	393.9	398.5	397.4	396.7	391.8	384.9	374.7
67°	357.5	362.5	369.8	376.9	383.0	386.6	386.4	385.4	380.7	373.8	364.2



89°	51.1	45.9	39.4	30.0	20.2	10.8	4.4	0.7	3.6	10.0	16.4
89.5°	47.7	42.6	35.7	26.7	17.3	8.7	3.4	0.6	2.6	7.5	14.8



111.5°	4.4	3.5	2.6	1.9	2.0	2.4	2.9	2.6	3.0	2.3	2.6
112°	4.3	3.4	2.5	1.9	2.0	2.5	2.9	2.7	3.1	2.3	2.6



134°	2.8	3.2	3.7	4.5	4.6	3.6	3.2	3.0	3.7	3.9	3.6
134.5°	2.9	3.2	3.8	4.6	4.6	3.6	3.2	3.0	3.7	3.9	3.6



156.5°	3.3	3.2	3.1	3.2	3.1	3.0	2.8	2.5	2.6	3.0	3.3
157°	3.3	3.1	3.0	3.2	3.1	2.9	2.7	2.5	2.6	2.9	3.3



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





21.5°	1254.4	1245.5	1238.3	1232.2	1229.3	1228.6	1230.3	1235.7	1243.4	1253.2	1263.1
22°	1247.8	1238.2	1230.4	1225.1	1221.9	1220.5	1222.9	1227.7	1235.9	1245.8	1256.3



44°	846.8	825.0	805.7	790.3	780.9	778.4	783.3	795.5	814.2	836.7	861.8
44.5°	836.3	813.8	794.7	779.4	769.6	767.1	772.2	784.7	803.3	826.1	850.6



66.5°	363.5	351.9	341.9	334.4	330.1	329.7	333.0	340.3	350.9	364.8	380.0
67°	353.2	342.2	332.9	325.8	321.7	321.3	324.2	331.6	341.8	355.0	369.9



89°	23.9	30.7	36.0	40.0	42.4	43.5	43.3	41.8	38.8	34.3	28.2
89.5°	21.3	27.9	33.2	37.0	39.5	40.6	40.3	38.7	35.7	31.1	25.1



111.5°	4.1	5.9	7.3	8.2	8.7	9.0	8.8	8.0	6.7	5.3	3.7
112°	4.0	5.8	7.1	8.0	8.5	8.8	8.6	7.8	6.5	5.2	3.5



134°	3.4	2.9	2.6	2.4	2.3	2.2	2.3	2.3	2.4	2.6	2.9
134.5°	3.4	2.9	2.6	2.4	2.3	2.2	2.3	2.3	2.4	2.6	2.9



156.5°	3.6	3.5	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0
157°	3.7	3.5	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0



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





21.5°	1272.6	1281.4	1288.3	1293.4
22°	1265.9	1275.9	1283.1	1287.2



44°	884.7	905.0	919.5	929.1
44.5°	874.7	894.3	909.5	918.9



66.5°	395.6	409.6	420.2	426.7
67°	384.9	398.6	409.2	415.3



89°	21.2	15.3	8.9	5.2
89.5°	18.2	12.5	5.3	3.9



111.5°	2.1	1.5	1.7	1.5
112°	2.1	1.6	1.8	1.5



134°	2.6	2.5	2.4	2.2
134.5°	2.6	2.5	2.3	2.2



156.5°	3.0	2.3	1.7	1.5
157°	3.0	2.3	1.7	1.5



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



(END OF REPORT)