

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: P201357

Luminaire Tested: **4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28229)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U
Description: 4 ft. Low Bay Linear, 7000 lm, Wht Asym lens, 3.5K
Light Source: (308) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
OT50W0800CC, OT30W0440CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7202.5 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

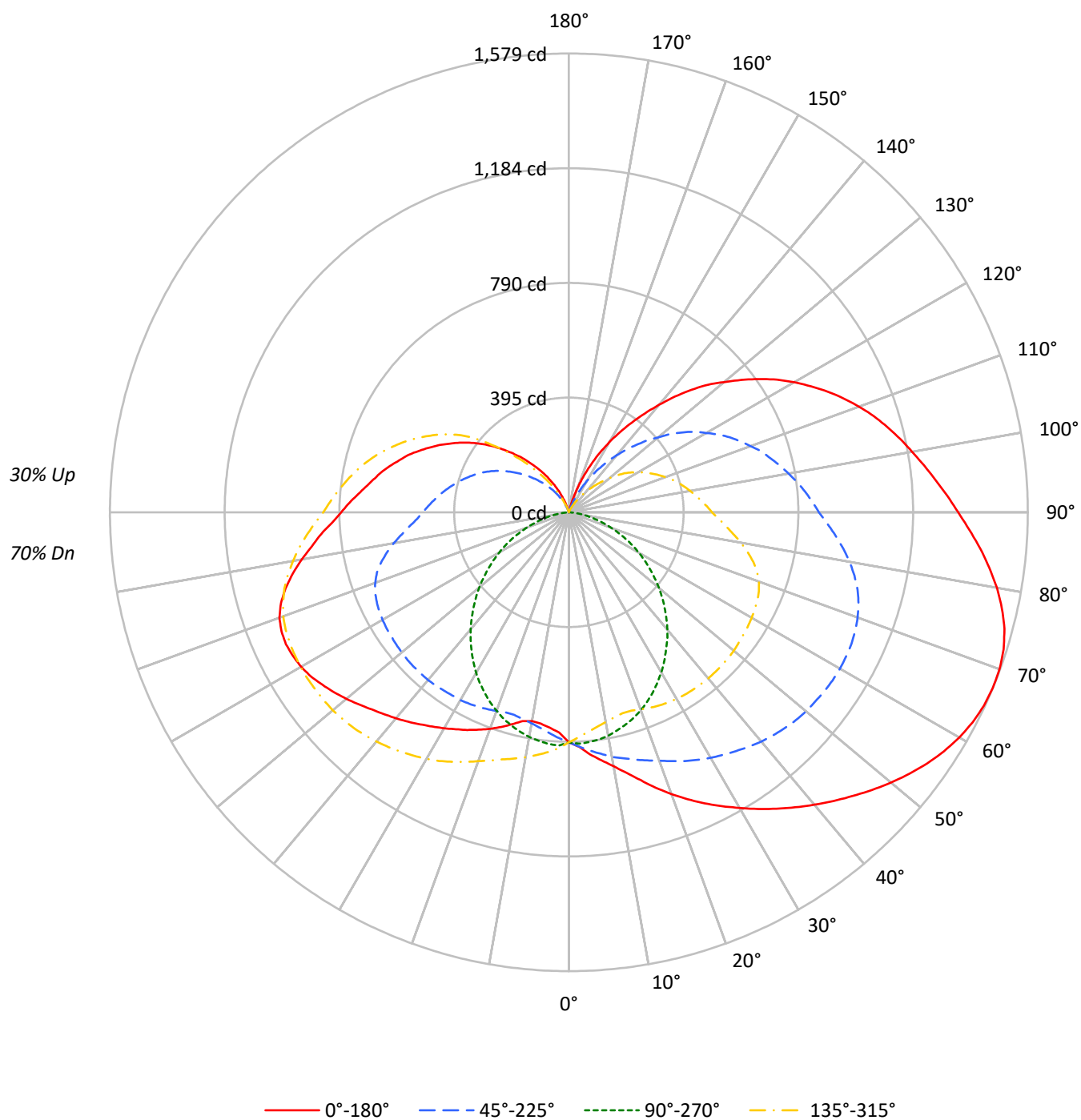
Input Watts (W): 56.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12749	12749	12749	12749
5°	12195	12782	10859	12882
10°	11903	12656	9787	12728
15°	11935	12437	9443	12509
20°	12173	12188	9355	12232
25°	12426	11868	9295	11898
30°	12711	11491	9288	11523
35°	13081	11037	9359	11069
40°	13511	10620	9515	10602
45°	14011	10097	9736	10058
50°	14597	9546	10081	9504
55°	15223	8918	10466	8847
60°	15827	8204	10854	8178
65°	16362	7375	11155	7375
70°	16802	6357	11292	6320
75°	17101	5146	11119	5146
80°	17205	3597	10737	3726
85°	17233	1635	10381	1937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.0
10°-20°	227.7	3.2
20°-30°	383.5	5.3
30°-40°	532.2	7.4
40°-50°	665.7	9.2
50°-60°	773.3	10.7
60°-70°	836.9	11.6
70°-80°	823.4	11.4
80°-90°	730.8	10.1
90°-100°	631.4	8.8
100°-110°	532.5	7.4
110°-120°	417.2	5.8
120°-130°	293.0	4.1
130°-140°	173.3	2.4
140°-150°	79.9	1.1
150°-160°	24.0	0.3
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	686.8	9.5
0°-40°	1219.0	16.9
0°-60°	2658.0	36.9
0°-90°	5049.1	70.1
90°-120°	1581.0	22.0
90°-150°	2127.2	29.5
90°-180°	2153.0	29.9
0°-180°	7202.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	791	791	791	791	791	
5°	836	794	744	800	836	81
15°	954	756	755	760	954	273
25°	1105	684	826	685	1105	513
35°	1245	582	891	583	1245	784
45°	1381	466	959	464	1381	1071
55°	1506	341	1035	338	1506	1349
65°	1575	215	1074	215	1575	1559
75°	1552	99	1009	99	1552	1635
85°	1420	14	856	17	1420	1175
90°	1339	0	783	1	1339	735
95°	1267	0	727	1	1267	1021
105°	1134	0	631	1	1134	1199
115°	982	0	528	1	982	975
125°	799	0	418	1	799	718
135°	596	0	297	1	596	462
145°	377	0	181	1	377	240
155°	182	0	77	1	182	88
165°	29	0	4	2	29	12
175°	0	0	0	2	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	807.9	807.6	807.3	807.0	806.7	806.5	806.2	805.9	805.6	805.3	805.5
5°	836.1	835.1	834.1	833.2	832.2	831.2	830.2	829.3	828.3	827.3	826.8
7.5°	860.8	859.5	858.2	857.0	855.7	854.4	853.1	851.9	850.6	849.3	848.0
10°	887.2	885.4	883.7	881.9	880.1	878.4	876.6	874.8	873.1	871.3	869.4
12.5°	918.0	915.7	913.3	911.0	908.6	906.3	903.9	901.6	899.2	896.9	893.6
15°	954.2	951.3	948.3	945.4	942.4	939.5	936.5	933.6	930.6	927.7	922.5
17.5°	993.8	990.1	986.4	982.6	978.9	975.2	971.5	967.7	964.0	960.3	953.1
20°	1031.7	1027.2	1022.7	1018.2	1013.7	1009.2	1004.7	1000.2	995.7	991.2	982.1
22.5°	1068.7	1063.5	1058.3	1053.1	1047.9	1042.8	1037.6	1032.4	1027.2	1022.0	1011.4
25°	1104.8	1099.1	1093.4	1087.8	1082.1	1076.4	1070.7	1065.1	1059.4	1053.7	1041.6
27.5°	1140.1	1133.9	1127.7	1121.6	1115.4	1109.2	1103.0	1096.9	1090.7	1084.5	1070.7
30°	1174.4	1167.6	1160.9	1154.1	1147.4	1140.6	1133.9	1127.1	1120.4	1113.6	1098.2
32.5°	1210.5	1203.0	1195.4	1187.9	1180.4	1172.8	1165.3	1157.8	1150.2	1142.7	1125.7
35°	1244.9	1236.7	1228.5	1220.2	1212.0	1203.8	1195.6	1187.3	1179.1	1170.9	1152.2
37.5°	1279.3	1270.4	1261.5	1252.6	1243.7	1234.7	1225.8	1216.9	1208.0	1199.1	1178.8
40°	1313.6	1304.0	1294.4	1284.8	1275.2	1265.7	1256.1	1246.5	1236.9	1227.3	1205.4
42.5°	1347.1	1336.8	1326.5	1316.3	1306.0	1295.7	1285.4	1275.2	1264.9	1254.6	1230.8
45°	1380.6	1369.5	1358.5	1347.4	1336.3	1325.3	1314.2	1303.1	1292.1	1281.0	1255.4
47.5°	1414.1	1402.2	1390.4	1378.5	1366.7	1354.8	1343.0	1331.1	1319.3	1307.4	1279.8
50°	1446.6	1434.0	1421.4	1408.7	1396.1	1383.5	1370.9	1358.2	1345.6	1333.0	1303.2
52.5°	1477.5	1464.1	1450.7	1437.3	1423.9	1410.4	1397.0	1383.6	1370.2	1356.8	1324.8
55°	1505.7	1491.6	1477.5	1463.4	1449.3	1435.2	1421.1	1407.0	1392.9	1378.8	1344.8
57.5°	1530.3	1515.7	1501.1	1486.6	1472.0	1457.4	1442.8	1428.3	1413.7	1399.1	1363.2
60°	1550.6	1535.7	1520.8	1506.0	1491.1	1476.2	1461.3	1446.5	1431.6	1416.7	1378.9
62.5°	1565.6	1550.4	1535.2	1520.1	1504.9	1489.7	1474.5	1459.4	1444.2	1429.0	1389.7
65°	1575.3	1560.0	1544.7	1529.5	1514.2	1498.9	1483.6	1468.4	1453.1	1437.8	1397.2
67.5°	1578.8	1563.5	1548.3	1533.0	1517.7	1502.5	1487.2	1471.9	1456.7	1441.4	1399.7
70°	1577.0	1561.7	1546.5	1531.2	1515.9	1500.7	1485.4	1470.1	1454.9	1439.6	1397.1
72.5°	1568.2	1552.8	1537.5	1522.1	1506.7	1491.4	1476.0	1460.6	1445.3	1429.9	1387.1
75°	1551.5	1536.3	1521.1	1506.0	1490.8	1475.6	1460.4	1445.3	1430.1	1414.9	1371.9
77.5°	1525.9	1511.0	1496.1	1481.3	1466.4	1451.5	1436.6	1421.8	1406.9	1392.0	1349.1
80°	1495.1	1480.4	1465.7	1451.1	1436.4	1421.7	1407.0	1392.4	1377.7	1363.0	1320.5
82.5°	1459.0	1444.5	1430.0	1415.5	1401.0	1386.6	1372.1	1357.6	1343.1	1328.6	1286.7
85°	1420.2	1405.9	1391.6	1377.3	1363.0	1348.8	1334.5	1320.2	1305.9	1291.6	1250.4
87.5°	1378.8	1364.7	1350.6	1336.5	1322.4	1308.3	1294.2	1280.1	1266.0	1251.9	1211.7
90°	1339.2	1325.1	1311.0	1296.9	1282.8	1268.7	1254.6	1240.5	1226.4	1212.3	1173.1
92.5°	1303.0	1289.4	1275.8	1262.2	1248.6	1235.0	1221.4	1207.8	1194.2	1180.6	1142.5
95°	1266.9	1253.8	1240.7	1227.6	1214.5	1201.3	1188.2	1175.1	1162.0	1148.9	1111.9
97.5°	1232.6	1219.8	1206.9	1194.1	1181.3	1168.4	1155.6	1142.8	1129.9	1117.1	1081.0
100°	1199.1	1186.5	1173.8	1161.2	1148.6	1135.9	1123.3	1110.7	1098.0	1085.4	1050.1
102.5°	1167.4	1155.0	1142.5	1130.1	1117.7	1105.2	1092.8	1080.4	1067.9	1055.5	1020.8
105°	1133.9	1121.7	1109.4	1097.2	1085.0	1072.7	1060.5	1048.3	1036.0	1023.8	989.8
107.5°	1100.4	1088.2	1075.9	1063.7	1051.5	1039.2	1027.0	1014.8	1002.5	990.3	957.5
110°	1062.5	1050.5	1038.4	1026.4	1014.4	1002.3	990.3	978.3	966.2	954.2	922.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1023.8	1012.4	1001.1	989.7	978.4	967.0	955.7	944.3	933.0	921.6	890.1
115°	982.3	971.2	960.2	949.1	938.1	927.0	916.0	904.9	893.9	882.8	852.6
117.5°	939.2	928.4	917.7	906.9	896.1	885.4	874.6	863.8	853.1	842.3	813.1
120°	895.1	884.6	874.2	863.7	853.2	842.8	832.3	821.8	811.4	800.9	772.5
122.5°	849.3	839.2	829.1	819.1	809.0	798.9	788.8	778.8	768.7	758.6	731.6
125°	799.1	789.7	780.3	770.9	761.5	752.1	742.7	733.3	723.9	714.5	688.5
127.5°	748.0	739.2	730.4	721.6	712.8	703.9	695.1	686.3	677.5	668.7	643.6
130°	696.9	688.6	680.3	671.9	663.6	655.3	647.0	638.6	630.3	622.0	597.3
132.5°	650.2	641.7	633.2	624.6	616.1	607.6	599.1	590.5	582.0	573.5	550.5
135°	595.6	587.6	579.5	571.5	563.5	555.4	547.4	539.4	531.3	523.3	501.6
137.5°	540.1	532.4	524.6	516.9	509.2	501.4	493.7	486.0	478.2	470.5	450.6
140°	482.8	475.9	469.1	462.2	455.4	448.5	441.7	434.8	428.0	421.1	402.8
142.5°	428.2	422.1	416.1	410.0	403.9	397.9	391.8	385.7	379.7	373.6	356.9
145°	377.1	371.7	366.3	360.9	355.5	350.2	344.8	339.4	334.0	328.6	312.9
147.5°	326.9	322.0	317.1	312.2	307.3	302.4	297.5	292.6	287.7	282.8	268.7
150°	278.4	274.1	269.8	265.5	261.2	256.8	252.5	248.2	243.9	239.6	226.9
152.5°	230.8	226.6	222.4	218.2	214.0	209.7	205.5	201.3	197.1	192.9	182.0
155°	182.4	179.0	175.5	172.1	168.7	165.2	161.8	158.4	154.9	151.5	142.1
157.5°	138.3	135.5	132.6	129.8	127.0	124.1	121.3	118.5	115.6	112.8	104.9
160°	96.9	94.6	92.2	89.9	87.5	85.2	82.8	80.5	78.1	75.8	69.9
162.5°	57.3	55.7	54.2	52.6	51.0	49.5	47.9	46.3	44.8	43.2	39.6
165°	29.1	28.1	27.1	26.2	25.2	24.2	23.2	22.3	21.3	20.3	18.4
167.5°	9.7	9.3	8.9	8.5	8.1	7.8	7.4	7.0	6.6	6.2	5.5
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	805.7	805.9	806.1	806.2	806.4	806.6	806.8	807.0	805.5	804.1	802.6
5°	826.3	825.8	825.3	824.9	824.4	823.9	823.4	822.9	820.5	818.0	815.6
7.5°	846.8	845.5	844.2	843.0	841.7	840.4	839.2	837.9	834.2	830.5	826.7
10°	867.6	865.7	863.9	862.0	860.2	858.3	856.5	854.6	849.2	843.8	838.4
12.5°	890.2	886.9	883.6	880.2	876.9	873.6	870.2	866.9	860.1	853.4	846.6
15°	917.3	912.1	906.9	901.8	896.6	891.4	886.2	881.0	872.6	864.2	855.8
17.5°	945.8	938.6	931.3	924.1	916.8	909.6	902.3	895.1	884.7	874.3	864.0
20°	973.0	963.9	954.8	945.6	936.5	927.4	918.3	909.2	896.7	884.1	871.6
22.5°	1000.8	990.3	979.7	969.1	958.5	948.0	937.4	926.8	911.6	896.5	881.3
25°	1029.4	1017.3	1005.2	993.0	980.9	968.8	956.6	944.5	926.5	908.5	890.5
27.5°	1056.9	1043.1	1029.3	1015.5	1001.7	987.9	974.1	960.3	939.6	919.0	898.3
30°	1082.9	1067.5	1052.1	1036.8	1021.4	1006.0	990.7	975.3	952.1	928.9	905.7
32.5°	1108.6	1091.6	1074.6	1057.5	1040.5	1023.5	1006.4	989.4	963.6	937.7	911.9
35°	1133.5	1114.8	1096.1	1077.4	1058.7	1040.0	1021.3	1002.6	974.5	946.4	918.3
37.5°	1158.6	1138.3	1118.0	1097.8	1077.5	1057.2	1037.0	1016.7	986.3	955.8	925.4
40°	1183.4	1161.5	1139.6	1117.6	1095.7	1073.8	1051.8	1029.9	997.2	964.5	931.8
42.5°	1207.0	1183.2	1159.4	1135.7	1111.9	1088.1	1064.3	1040.5	1005.6	970.8	935.9
45°	1229.7	1204.1	1178.4	1152.8	1127.1	1101.5	1075.8	1050.2	1013.2	976.2	939.2
47.5°	1252.2	1224.6	1197.0	1169.4	1141.8	1114.2	1086.6	1059.0	1019.9	980.9	941.8
50°	1273.5	1243.7	1214.0	1184.2	1154.5	1124.7	1095.0	1065.2	1024.2	983.2	942.1
52.5°	1292.8	1260.8	1228.8	1196.7	1164.7	1132.7	1100.7	1068.7	1025.9	983.1	940.4
55°	1310.9	1276.9	1242.9	1209.0	1175.0	1141.0	1107.1	1073.1	1028.4	983.6	938.9
57.5°	1327.2	1291.3	1255.4	1219.4	1183.5	1147.6	1111.6	1075.7	1029.0	982.3	935.6
60°	1341.1	1303.3	1265.5	1227.8	1190.0	1152.2	1114.4	1076.6	1028.2	979.9	931.5
62.5°	1350.3	1311.0	1271.6	1232.3	1192.9	1153.6	1114.2	1074.9	1025.0	975.0	925.1
65°	1356.6	1315.9	1275.3	1234.7	1194.1	1153.4	1112.8	1072.2	1020.6	969.0	917.4
67.5°	1358.0	1316.3	1274.6	1232.8	1191.1	1149.4	1107.7	1066.0	1013.0	960.1	907.1
70°	1354.6	1312.1	1269.6	1227.2	1184.7	1142.2	1099.7	1057.2	1003.1	948.9	894.8
72.5°	1344.3	1301.6	1258.8	1216.0	1173.2	1130.5	1087.7	1044.9	989.9	934.9	879.9
75°	1329.0	1286.0	1243.0	1200.1	1157.1	1114.1	1071.2	1028.2	972.6	917.0	861.4
77.5°	1306.2	1263.4	1220.5	1177.6	1134.7	1091.9	1049.0	1006.1	950.3	894.5	838.7
80°	1278.0	1235.5	1193.0	1150.6	1108.1	1065.6	1023.1	980.6	925.2	869.8	814.4
82.5°	1244.8	1202.9	1161.0	1119.1	1077.2	1035.3	993.4	951.5	896.7	841.9	787.0
85°	1209.2	1168.0	1126.8	1085.5	1044.3	1003.1	961.9	920.7	866.7	812.6	758.6
87.5°	1171.4	1131.2	1091.0	1050.7	1010.5	970.3	930.0	889.8	836.8	783.9	730.9
90°	1134.0	1094.8	1055.7	1016.5	977.4	938.2	899.1	859.9	808.0	756.1	704.2
92.5°	1104.4	1066.4	1028.3	990.2	952.1	914.1	876.0	837.9	787.0	736.1	685.2
95°	1074.9	1037.9	1000.9	963.8	926.8	889.8	852.8	815.8	765.7	715.6	665.4
97.5°	1044.9	1008.7	972.6	936.5	900.4	864.2	828.1	792.0	742.9	693.7	644.6
100°	1014.7	979.4	944.1	908.7	873.4	838.1	802.7	767.4	719.2	671.1	622.9
102.5°	986.2	951.5	916.9	882.2	847.6	812.9	778.3	743.6	696.3	649.0	601.8
105°	955.8	921.9	887.9	853.9	819.9	786.0	752.0	718.0	671.6	625.2	578.8
107.5°	924.7	891.9	859.1	826.3	793.5	760.7	727.9	695.1	649.3	603.5	557.7
110°	890.2	858.2	826.2	794.1	762.1	730.1	698.1	666.1	621.6	577.0	532.5



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	858.6	827.0	795.5	764.0	732.5	700.9	669.4	637.9	594.4	551.0	507.5
115°	822.3	792.1	761.8	731.6	701.3	671.1	640.8	610.6	568.1	525.6	483.1
117.5°	783.9	754.8	725.6	696.4	667.2	638.1	608.9	579.7	538.2	496.7	455.2
120°	744.1	715.7	687.3	659.0	630.6	602.2	573.8	545.4	505.7	465.9	426.2
122.5°	704.6	677.5	650.5	623.5	596.5	569.4	542.4	515.4	476.9	438.5	400.0
125°	662.4	636.4	610.4	584.3	558.3	532.3	506.2	480.2	443.6	407.0	370.4
127.5°	618.6	593.5	568.5	543.4	518.4	493.3	468.3	443.2	408.7	374.3	339.8
130°	572.7	548.0	523.3	498.7	474.0	449.3	424.7	400.0	368.4	336.8	305.1
132.5°	527.5	504.5	481.5	458.5	435.5	412.5	389.5	366.5	336.7	307.0	277.2
135°	479.8	458.1	436.4	414.6	392.9	371.2	349.4	327.7	300.4	273.1	245.8
137.5°	430.7	410.9	391.0	371.1	351.2	331.4	311.5	291.6	266.5	241.5	216.4
140°	384.5	366.2	347.9	329.6	311.3	293.0	274.7	256.4	233.5	210.6	187.7
142.5°	340.1	323.4	306.6	289.9	273.1	256.4	239.6	222.9	201.9	180.8	159.8
145°	297.3	281.6	266.0	250.3	234.7	219.0	203.4	187.7	169.4	151.1	132.8
147.5°	254.6	240.5	226.4	212.3	198.2	184.1	170.0	155.9	140.2	124.6	108.9
150°	214.2	201.4	188.7	176.0	163.3	150.5	137.8	125.1	112.4	99.7	86.9
152.5°	171.2	160.3	149.5	138.6	127.8	116.9	106.1	95.2	85.3	75.4	65.5
155°	132.7	123.3	113.9	104.6	95.2	85.8	76.4	67.0	59.8	52.7	45.5
157.5°	96.9	89.0	81.1	73.1	65.2	57.3	49.3	41.4	36.8	32.2	27.6
160°	64.0	58.2	52.3	46.4	40.5	34.7	28.8	22.9	20.4	17.8	15.3
162.5°	36.0	32.3	28.7	25.1	21.5	17.8	14.2	10.6	9.4	8.2	7.1
165°	16.6	14.7	12.8	11.0	9.1	7.2	5.4	3.5	3.1	2.7	2.3
167.5°	4.8	4.1	3.4	2.8	2.1	1.4	0.7	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	801.1	799.7	798.2	796.7	795.3	793.8	794.2	794.6	795.0	795.4	795.7
5°	813.1	810.7	808.2	805.8	803.3	800.9	800.1	799.3	798.5	797.7	797.0
7.5°	823.0	819.3	815.6	811.8	808.1	804.4	802.6	800.9	799.1	797.3	795.6
10°	833.0	827.7	822.3	816.9	811.5	806.1	803.3	800.4	797.6	794.8	791.9
12.5°	839.9	833.1	826.4	819.6	812.9	806.1	801.9	797.7	793.5	789.3	785.1
15°	847.4	838.9	830.5	822.1	813.7	805.3	799.8	794.3	788.8	783.3	777.9
17.5°	853.6	843.2	832.8	822.5	812.1	801.7	795.0	788.4	781.7	775.1	768.4
20°	859.1	846.5	834.0	821.5	808.9	796.4	788.4	780.4	772.3	764.3	756.3
22.5°	866.1	851.0	835.8	820.6	805.5	790.3	780.8	771.3	761.8	752.3	742.8
25°	872.5	854.4	836.4	818.4	800.4	782.4	771.4	760.5	749.5	738.5	727.6
27.5°	877.7	857.0	836.4	815.7	795.1	774.4	761.7	749.0	736.2	723.5	710.8
30°	882.5	859.3	836.1	812.9	789.7	766.5	752.0	737.5	723.0	708.5	694.1
32.5°	886.0	860.2	834.3	808.5	782.6	756.8	740.5	724.1	707.8	691.4	675.1
35°	890.2	862.2	834.1	806.0	777.9	749.8	731.1	712.4	693.7	675.0	656.3
37.5°	894.9	864.5	834.0	803.6	773.1	742.7	721.9	701.2	680.4	659.7	638.9
40°	899.1	866.5	833.8	801.1	768.4	735.7	712.5	689.3	666.1	642.9	619.7
42.5°	901.1	866.2	831.4	796.5	761.7	726.8	701.3	675.7	650.2	624.6	599.1
45°	902.2	865.2	828.2	791.2	754.2	717.2	689.3	661.4	633.5	605.6	577.7
47.5°	902.8	863.7	824.7	785.6	746.6	707.5	677.2	647.0	616.7	586.5	556.2
50°	901.1	860.1	819.1	778.0	737.0	696.0	663.6	631.2	598.8	566.4	534.0
52.5°	897.6	854.8	812.0	769.3	726.5	683.7	649.0	614.4	579.7	545.1	510.4
55°	894.2	849.4	804.7	760.0	715.2	670.5	633.9	597.3	560.7	524.1	487.4
57.5°	888.9	842.3	795.6	748.9	702.2	655.5	617.0	578.5	540.1	501.6	463.1
60°	883.2	834.8	786.5	738.1	689.8	641.4	601.0	560.5	520.1	479.7	439.2
62.5°	875.2	825.2	775.3	725.4	675.4	625.5	583.4	541.3	499.2	457.1	415.1
65°	865.8	814.3	762.7	711.1	659.5	607.9	564.2	520.6	476.9	433.3	389.6
67.5°	854.2	801.2	748.3	695.3	642.4	589.4	544.3	499.2	454.0	408.9	363.8
70°	840.7	786.5	732.4	678.3	624.1	570.0	523.8	477.6	431.4	385.2	339.0
72.5°	824.9	769.8	714.8	659.8	604.8	549.8	502.7	455.6	408.5	361.4	314.4
75°	805.8	750.1	694.5	638.9	583.3	527.7	480.0	432.4	384.7	337.0	289.4
77.5°	782.9	727.1	671.3	615.5	559.7	503.9	456.0	408.2	360.3	312.4	264.6
80°	759.0	703.5	648.1	592.7	537.3	481.9	433.9	386.0	338.0	290.0	242.1
82.5°	732.2	677.4	622.6	567.7	512.9	458.1	410.5	363.0	315.4	267.8	220.3
85°	704.5	650.5	596.4	542.4	488.3	434.3	387.6	340.9	294.2	247.5	200.9
87.5°	678.0	625.0	572.1	519.1	466.2	413.2	367.5	321.8	276.1	230.4	184.6
90°	652.3	600.5	548.6	496.7	444.8	392.9	349.2	305.6	261.9	218.3	174.6
92.5°	634.3	583.3	532.4	481.5	430.6	379.7	337.5	295.3	253.1	210.9	168.8
95°	615.3	565.2	515.1	464.9	414.8	364.7	324.2	283.7	243.1	202.6	162.1
97.5°	595.5	546.3	497.2	448.1	398.9	349.8	310.9	272.1	233.2	194.3	155.5
100°	574.7	526.6	478.4	430.2	382.1	333.9	296.8	259.7	222.6	185.5	148.4
102.5°	554.5	507.2	459.9	412.7	365.4	318.1	282.8	247.4	212.1	176.7	141.4
105°	532.4	486.0	439.6	393.2	346.8	300.4	267.0	233.6	200.3	166.9	133.5
107.5°	511.9	466.0	420.2	374.4	328.6	282.8	251.4	220.0	188.5	157.1	125.7
110°	487.9	443.4	398.8	354.3	309.7	265.2	235.7	206.3	176.8	147.3	117.9



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	464.0	420.6	377.1	333.6	290.2	246.7	219.3	191.9	164.5	137.1	109.6
115°	440.6	398.2	355.7	313.2	270.7	228.2	202.8	177.5	152.1	126.8	101.4
117.5°	413.7	372.2	330.7	289.2	247.7	206.2	183.3	160.4	137.5	114.6	91.6
120°	386.4	346.7	306.9	267.2	227.4	187.7	166.8	146.0	125.1	104.3	83.4
122.5°	361.5	323.1	284.6	246.1	207.7	169.2	150.4	131.6	112.8	94.0	75.2
125°	333.8	297.1	260.5	223.9	187.3	150.7	134.0	117.2	100.5	83.7	67.0
127.5°	305.3	270.9	236.4	201.9	167.5	133.0	118.2	103.4	88.7	73.9	59.1
130°	273.5	241.9	210.3	178.6	147.0	115.4	102.6	89.8	76.9	64.1	51.3
132.5°	247.5	217.7	188.0	158.2	128.5	98.7	87.7	76.8	65.8	54.8	43.9
135°	218.5	191.1	163.8	136.5	109.2	81.9	72.8	63.7	54.6	45.5	36.4
137.5°	191.4	166.3	141.3	116.2	91.2	66.1	58.8	51.4	44.1	36.7	29.4
140°	164.8	141.8	118.9	96.0	73.1	50.2	44.6	39.0	33.5	27.9	22.3
142.5°	138.7	117.7	96.6	75.6	54.5	33.5	29.8	26.1	22.3	18.6	14.9
145°	114.5	96.1	77.8	59.5	41.2	22.9	20.4	17.8	15.3	12.7	10.2
147.5°	93.3	77.6	62.0	46.3	30.7	15.0	13.3	11.7	10.0	8.3	6.7
150°	74.2	61.5	48.8	36.0	23.3	10.6	9.4	8.2	7.1	5.9	4.7
152.5°	55.6	45.8	35.9	26.0	16.1	6.2	5.5	4.8	4.1	3.4	2.8
155°	38.4	31.2	24.1	16.9	9.8	2.6	2.3	2.0	1.7	1.4	1.2
157.5°	23.0	18.4	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	12.7	10.2	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.9	4.7	3.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.9	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	796.1	796.5	796.9	797.3	795.3	793.4	791.4	789.5	787.5	785.6	783.6
5°	796.2	795.4	794.6	793.8	791.0	788.1	785.3	782.5	779.6	776.8	774.0
7.5°	793.8	792.0	790.3	788.5	784.9	781.3	777.6	774.0	770.4	766.8	763.1
10°	789.1	786.3	783.4	780.6	776.4	772.2	768.0	763.8	759.5	755.3	751.1
12.5°	780.9	776.7	772.5	768.3	763.9	759.5	755.1	750.7	746.2	741.8	737.4
15°	772.4	766.9	761.4	755.9	751.1	746.3	741.5	736.7	732.0	727.2	722.4
17.5°	761.8	755.1	748.5	741.8	736.8	731.8	726.8	721.8	716.9	711.9	706.9
20°	748.3	740.2	732.2	724.2	719.5	714.8	710.1	705.4	700.7	696.0	691.3
22.5°	733.3	723.8	714.3	704.8	700.4	696.0	691.6	687.2	682.8	678.4	674.0
25°	716.6	705.6	694.7	683.7	679.9	676.1	672.2	668.4	664.6	660.8	656.9
27.5°	698.1	685.3	672.6	659.9	657.1	654.2	651.4	648.5	645.7	642.8	640.0
30°	679.6	665.1	650.6	636.1	634.4	632.8	631.1	629.4	627.8	626.1	624.4
32.5°	658.7	642.4	626.0	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
35°	637.6	618.9	600.2	581.5	583.4	585.2	587.1	588.9	590.8	592.6	594.5
37.5°	618.2	597.4	576.7	555.9	559.4	562.9	566.5	570.0	573.5	577.0	580.6
40°	596.5	573.3	550.1	526.9	532.2	537.5	542.7	548.0	553.3	558.6	563.8
42.5°	573.5	548.0	522.4	496.9	504.0	511.2	518.3	525.5	532.6	539.8	546.9
45°	549.8	521.9	494.0	466.1	475.1	484.1	493.1	502.1	511.1	520.1	529.1
47.5°	526.0	495.7	465.5	435.2	446.1	456.9	467.8	478.7	489.5	500.4	511.3
50°	501.6	469.2	436.8	404.4	417.0	429.6	442.3	454.9	467.5	480.1	492.8
52.5°	475.8	441.1	406.5	371.8	386.3	400.8	415.3	429.8	444.2	458.7	473.2
55°	450.8	414.2	377.6	341.0	357.1	373.3	389.4	405.6	421.7	437.9	454.0
57.5°	424.6	386.2	347.7	309.2	327.1	345.0	363.0	380.9	398.8	416.7	434.7
60°	398.8	358.4	317.9	277.5	296.9	316.3	335.7	355.1	374.4	393.8	413.2
62.5°	373.0	330.9	288.8	246.7	267.5	288.4	309.2	330.1	350.9	371.8	392.6
65°	346.0	302.3	258.7	215.0	237.3	259.6	281.9	304.2	326.6	348.9	371.2
67.5°	318.7	273.5	228.4	183.3	207.0	230.7	254.4	278.1	301.7	325.4	349.1
70°	292.8	246.6	200.4	154.2	178.9	203.5	228.2	252.9	277.5	302.2	326.9
72.5°	267.3	220.2	173.1	126.0	151.5	176.9	202.4	227.8	253.3	278.7	304.2
75°	241.7	194.0	146.4	98.7	124.8	151.0	177.1	203.2	229.4	255.5	281.6
77.5°	216.7	168.8	121.0	73.1	99.4	125.8	152.1	178.4	204.8	231.1	257.4
80°	194.1	146.1	98.2	50.2	76.7	103.3	129.8	156.3	182.9	209.4	235.9
82.5°	172.7	125.1	77.6	30.0	56.3	82.7	109.0	135.3	161.7	188.0	214.3
85°	154.2	107.5	60.8	14.1	40.0	66.0	91.9	117.9	143.8	169.8	195.7
87.5°	138.9	93.2	47.5	1.8	27.1	52.5	77.8	103.2	128.5	153.9	179.2
90°	131.0	87.3	43.7	0.0	24.1	48.2	72.2	96.3	120.4	144.5	168.5
92.5°	126.6	84.4	42.2	0.0	22.7	45.4	68.1	90.8	113.6	136.3	159.0
95°	121.6	81.0	40.5	0.0	21.5	43.1	64.6	86.1	107.7	129.2	150.7
97.5°	116.6	77.7	38.9	0.0	20.3	40.5	60.8	81.1	101.3	121.6	141.9
100°	111.3	74.2	37.1	0.0	19.1	38.2	57.3	76.4	95.4	114.5	133.6
102.5°	106.0	70.7	35.3	0.0	17.9	35.8	53.7	71.6	89.6	107.5	125.4
105°	100.1	66.8	33.4	0.0	16.6	33.3	49.9	66.6	83.2	99.9	116.5
107.5°	94.3	62.8	31.4	0.0	15.4	30.7	46.1	61.5	76.8	92.2	107.6
110°	88.4	58.9	29.5	0.0	14.2	28.4	42.6	56.8	70.9	85.1	99.3



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	82.2	54.8	27.4	0.0	12.9	25.8	38.8	51.7	64.6	77.5	90.5
115°	76.1	50.7	25.4	0.0	11.6	23.3	34.9	46.6	58.2	69.9	81.5
117.5°	68.7	45.8	22.9	0.0	10.4	20.8	31.1	41.5	51.9	62.3	72.6
120°	62.6	41.7	20.9	0.0	9.1	18.2	27.3	36.4	45.5	54.6	63.7
122.5°	56.4	37.6	18.8	0.0	8.0	16.0	24.1	32.1	40.1	48.1	56.2
125°	50.2	33.5	16.7	0.0	6.8	13.5	20.3	27.0	33.8	40.5	47.3
127.5°	44.3	29.6	14.8	0.0	5.5	11.0	16.4	21.9	27.4	32.9	38.3
130°	38.5	25.6	12.8	0.0	4.3	8.6	12.9	17.2	21.6	25.9	30.2
132.5°	32.9	21.9	11.0	0.0	3.2	6.5	9.7	12.9	16.2	19.4	22.6
135°	27.3	18.2	9.1	0.0	2.3	4.5	6.8	9.0	11.3	13.5	15.8
137.5°	22.0	14.7	7.3	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.3
140°	16.7	11.2	5.6	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4
142.5°	11.2	7.4	3.7	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7
145°	7.6	5.1	2.5	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
147.5°	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	781.7	779.7	779.1	778.5	777.9	777.3	776.8	776.2	775.6	775.0	774.4
5°	771.1	768.3	767.2	766.1	765.1	764.0	762.9	761.8	760.8	759.7	758.6
7.5°	759.5	755.9	754.6	753.4	752.1	750.8	749.6	748.3	747.0	745.8	744.5
10°	746.9	742.7	741.5	740.3	739.2	738.0	736.8	735.6	734.5	733.3	732.1
12.5°	733.0	728.6	727.9	727.2	726.5	725.8	725.2	724.5	723.8	723.1	722.4
15°	717.6	712.8	713.1	713.4	713.7	714.0	714.2	714.5	714.8	715.1	715.4
17.5°	701.9	696.9	699.0	701.0	703.1	705.1	707.2	709.2	711.3	713.3	715.4
20°	686.6	681.9	686.3	690.7	695.1	699.5	704.0	708.4	712.8	717.2	721.6
22.5°	669.6	665.2	672.1	679.1	686.0	693.0	699.9	706.9	713.8	720.8	727.7
25°	653.1	649.3	658.7	668.1	677.5	686.9	696.3	705.7	715.1	724.5	733.9
27.5°	637.1	634.3	645.8	657.2	668.7	680.1	691.6	703.0	714.5	725.9	737.4
30°	622.8	621.1	634.4	647.7	661.0	674.3	687.7	701.0	714.3	727.6	740.9
32.5°	609.7	609.7	624.6	639.5	654.3	669.2	684.1	699.0	713.8	728.7	743.6
35°	596.3	598.2	614.5	630.7	647.0	663.2	679.5	695.7	712.0	728.2	744.5
37.5°	584.1	587.6	605.1	622.7	640.2	657.7	675.3	692.8	710.3	727.9	745.4
40°	569.1	574.4	593.5	612.6	631.7	650.8	669.8	688.9	708.0	727.1	746.2
42.5°	554.1	561.2	581.7	602.1	622.6	643.1	663.5	684.0	704.5	724.9	745.4
45°	538.1	547.1	569.0	591.0	612.9	634.8	656.8	678.7	700.6	722.6	744.5
47.5°	522.1	533.0	556.3	579.6	602.9	626.2	649.5	672.8	696.1	719.4	742.7
50°	505.4	518.0	542.8	567.5	592.3	617.1	641.8	666.6	691.4	716.1	740.9
52.5°	487.7	502.2	528.2	554.3	580.3	606.3	632.4	658.4	684.4	710.5	736.5
55°	470.2	486.3	513.7	541.1	568.5	595.9	623.4	650.8	678.2	705.6	733.0
57.5°	452.6	470.5	499.4	528.3	557.1	586.0	614.9	643.8	672.6	701.5	730.4
60°	432.6	452.0	482.4	512.9	543.3	573.8	604.2	634.7	665.1	695.6	726.0
62.5°	413.5	434.3	466.2	498.1	530.1	562.0	593.9	625.8	657.8	689.7	721.6
65°	393.5	415.8	449.1	482.4	515.7	549.0	582.2	615.5	648.8	682.1	715.4
67.5°	372.8	396.5	431.1	465.6	500.2	534.7	569.3	603.8	638.4	672.9	707.5
70°	351.5	376.2	411.7	447.3	482.8	518.3	553.9	589.4	624.9	660.5	696.0
72.5°	329.6	355.1	391.0	426.9	462.9	498.8	534.7	570.6	606.6	642.5	678.4
75°	307.8	333.9	369.7	405.6	441.4	477.2	513.1	548.9	584.7	620.6	656.4
77.5°	283.8	310.1	345.6	381.2	416.7	452.2	487.8	523.3	558.8	594.4	629.9
80°	262.5	289.0	323.7	358.3	393.0	427.6	462.3	496.9	531.6	566.2	600.9
82.5°	240.7	267.0	300.7	334.3	368.0	401.7	435.3	469.0	502.7	536.3	570.0
85°	221.7	247.6	280.2	312.8	345.4	378.0	410.6	443.2	475.8	508.4	541.0
87.5°	204.6	229.9	261.6	293.3	325.1	356.8	388.5	420.2	452.0	483.7	515.4
90°	192.6	216.7	247.3	278.0	308.6	339.3	369.9	400.6	431.2	461.9	492.5
92.5°	181.7	204.4	234.5	264.5	294.6	324.6	354.7	384.7	414.8	444.8	474.9
95°	172.3	193.8	223.1	252.4	281.6	310.9	340.2	369.5	398.7	428.0	457.3
97.5°	162.1	182.4	211.1	239.8	268.4	297.1	325.8	354.5	383.1	411.8	440.5
100°	152.7	171.8	199.8	227.8	255.8	283.8	311.8	339.8	367.8	395.8	423.8
102.5°	143.3	161.2	188.5	215.8	243.1	270.4	297.8	325.1	352.4	379.7	407.0
105°	133.2	149.8	176.6	203.4	230.3	257.1	283.9	310.7	337.6	364.4	391.2
107.5°	122.9	138.3	164.3	190.4	216.4	242.5	268.5	294.6	320.6	346.7	372.7
110°	113.5	127.7	152.8	177.8	202.9	228.0	253.0	278.1	303.2	328.2	353.3



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	103.4	116.3	140.6	164.9	189.1	213.4	237.7	262.0	286.2	310.5	334.8
115°	93.2	104.8	128.2	151.6	175.0	198.4	221.8	245.2	268.6	292.0	315.4
117.5°	83.0	93.4	115.9	138.4	160.9	183.4	206.0	228.5	251.0	273.5	296.0
120°	72.8	81.9	103.4	125.0	146.5	168.1	189.6	211.2	232.7	254.3	275.8
122.5°	64.2	72.2	92.6	112.9	133.3	153.7	174.0	194.4	214.8	235.1	255.5
125°	54.0	60.8	80.1	99.4	118.7	138.0	157.2	176.5	195.8	215.1	234.4
127.5°	43.8	49.3	67.0	84.7	102.5	120.2	137.9	155.6	173.4	191.1	208.8
130°	34.5	38.8	54.9	71.1	87.2	103.4	119.5	135.7	151.8	168.0	184.1
132.5°	25.9	29.1	43.5	57.9	72.3	86.7	101.0	115.4	129.8	144.2	158.6
135°	18.0	20.3	33.1	45.9	58.8	71.6	84.4	97.2	110.1	122.9	135.7
137.5°	11.7	13.2	24.4	35.5	46.7	57.9	69.0	80.2	91.4	102.5	113.7
140°	6.2	7.0	16.7	26.4	36.1	45.8	55.5	65.2	74.9	84.6	94.3
142.5°	3.1	3.5	11.5	19.6	27.6	35.6	43.7	51.7	59.7	67.8	75.8
145°	0.8	0.9	7.4	13.8	20.3	26.7	33.2	39.6	46.1	52.5	59.0
147.5°	0.0	0.0	4.9	9.8	14.7	19.6	24.5	29.4	34.3	39.2	44.1
150°	0.0	0.0	3.4	6.8	10.3	13.7	17.1	20.5	24.0	27.4	30.8
152.5°	0.0	0.0	2.1	4.1	6.2	8.2	10.3	12.3	14.4	16.4	18.5
155°	0.0	0.0	1.1	2.2	3.2	4.3	5.4	6.5	7.5	8.6	9.7
157.5°	0.0	0.0	0.3	0.6	0.9	1.2	1.4	1.7	2.0	2.3	2.6
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	773.5	772.6	771.8	770.9	770.0	769.1	768.3	767.4	766.5	765.6	764.7
5°	757.6	756.6	755.7	754.7	753.7	752.7	751.8	750.8	749.8	749.2	748.6
7.5°	743.6	742.7	741.8	740.9	740.1	739.2	738.3	737.4	736.5	736.2	735.9
10°	732.0	731.9	731.8	731.7	731.7	731.6	731.5	731.4	731.3	731.1	730.9
12.5°	723.3	724.2	725.1	726.0	726.8	727.7	728.6	729.5	730.4	731.0	731.6
15°	718.2	721.1	723.9	726.7	729.6	732.4	735.2	738.1	740.9	742.5	744.0
17.5°	720.1	724.8	729.5	734.2	738.9	743.6	748.3	753.0	757.7	759.6	761.4
20°	727.3	733.0	738.6	744.3	750.0	755.7	761.3	767.0	772.7	774.9	777.2
22.5°	734.4	741.0	747.7	754.3	761.0	767.6	774.3	780.9	787.6	790.1	792.5
25°	741.3	748.8	756.2	763.7	771.1	778.6	786.0	793.5	800.9	803.7	806.6
27.5°	745.9	754.4	763.0	771.5	780.0	788.5	797.1	805.6	814.1	817.1	820.2
30°	750.3	759.7	769.1	778.5	787.9	797.3	806.7	816.1	825.5	829.1	832.7
32.5°	754.0	764.4	774.7	785.1	795.5	805.9	816.2	826.6	837.0	841.1	845.2
35°	756.0	767.6	779.1	790.7	802.2	813.8	825.3	836.9	848.4	853.1	857.8
37.5°	758.1	770.8	783.6	796.3	809.0	821.7	834.5	847.2	859.9	865.3	870.7
40°	760.1	774.0	787.9	801.8	815.7	829.6	843.5	857.4	871.3	877.3	883.3
42.5°	760.6	775.7	790.9	806.1	821.2	836.4	851.6	866.7	881.9	888.6	895.2
45°	761.1	777.8	794.4	811.0	827.7	844.3	860.9	877.6	894.2	901.4	908.7
47.5°	761.0	779.3	797.6	815.9	834.3	852.6	870.9	889.2	907.5	915.4	923.3
50°	760.8	780.7	800.5	820.4	840.3	860.2	880.0	899.9	919.8	928.6	937.4
52.5°	758.1	779.8	801.4	823.0	844.7	866.3	887.9	909.6	931.2	940.8	950.4
55°	756.5	780.0	803.5	827.0	850.5	874.0	897.5	921.0	944.5	954.6	964.7
57.5°	755.4	780.3	805.3	830.2	855.2	880.1	905.1	930.0	955.0	965.8	976.5
60°	752.4	778.8	805.3	831.7	858.1	884.5	911.0	937.4	963.8	974.9	985.9
62.5°	749.2	776.8	804.4	832.0	859.6	887.2	914.8	942.4	970.0	981.2	992.3
65°	744.0	772.6	801.2	829.8	858.3	886.9	915.5	944.1	972.7	984.0	995.2
67.5°	736.6	765.6	794.7	823.8	852.8	881.9	911.0	940.0	969.1	980.4	991.6
70°	725.4	754.7	784.1	813.5	842.8	872.2	901.6	930.9	960.3	971.4	982.4
72.5°	707.8	737.1	766.5	795.9	825.2	854.6	884.0	913.3	942.7	953.4	964.0
75°	685.3	714.2	743.0	771.9	800.8	829.7	858.5	887.4	916.3	926.6	936.9
77.5°	657.9	685.9	713.9	741.9	769.9	797.9	825.9	853.9	881.9	892.0	902.1
80°	628.0	655.1	682.2	709.3	736.5	763.6	790.7	817.8	844.9	854.7	864.5
82.5°	596.1	622.3	648.4	674.6	700.7	726.9	753.0	779.2	805.3	814.9	824.5
85°	566.6	592.3	617.9	643.6	669.2	694.9	720.5	746.2	771.8	781.1	790.4
87.5°	539.6	563.8	587.9	612.1	636.3	660.5	684.6	708.8	733.0	742.1	751.2
90°	516.2	539.9	563.6	587.3	610.9	634.6	658.3	682.0	705.7	714.3	722.9
92.5°	497.8	520.7	543.6	566.5	589.4	612.3	635.2	658.1	681.0	689.3	697.6
95°	479.3	501.3	523.4	545.4	567.4	589.4	611.5	633.5	655.5	663.4	671.3
97.5°	461.8	483.2	504.5	525.9	547.2	568.6	589.9	611.3	632.6	640.1	647.7
100°	444.6	465.5	486.3	507.2	528.0	548.9	569.7	590.6	611.4	618.7	626.1
102.5°	427.4	447.7	468.1	488.5	508.8	529.2	549.6	569.9	590.3	597.6	605.0
105°	410.9	430.6	450.2	469.9	489.6	509.3	528.9	548.6	568.3	575.2	582.2
107.5°	391.9	411.1	430.3	449.5	468.6	487.8	507.0	526.2	545.4	552.1	558.9
110°	372.0	390.7	409.4	428.1	446.8	465.5	484.2	502.9	521.6	528.4	535.3



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	352.8	370.8	388.8	406.8	424.9	442.9	460.9	478.9	496.9	503.4	509.8
115°	332.8	350.2	367.7	385.1	402.5	419.9	437.4	454.8	472.2	478.4	484.5
117.5°	312.7	329.5	346.2	363.0	379.7	396.5	413.2	430.0	446.7	452.8	458.8
120°	291.9	308.1	324.2	340.4	356.5	372.7	388.8	405.0	421.1	426.9	432.7
122.5°	271.0	286.4	301.9	317.4	332.8	348.3	363.8	379.2	394.7	400.4	406.1
125°	249.3	264.2	279.0	293.9	308.8	323.7	338.5	353.4	368.3	373.8	379.3
127.5°	223.5	238.2	252.9	267.6	282.2	296.9	311.6	326.3	341.0	346.3	351.6
130°	198.4	212.7	227.0	241.3	255.6	269.9	284.2	298.5	312.8	317.9	323.0
132.5°	172.5	186.4	200.3	214.2	228.1	242.0	255.9	269.8	283.7	288.6	293.5
135°	149.1	162.5	175.9	189.3	202.8	216.2	229.6	243.0	256.4	260.9	265.4
137.5°	126.2	138.7	151.3	163.8	176.3	188.8	201.4	213.9	226.4	230.9	235.4
140°	105.4	116.4	127.5	138.5	149.6	160.6	171.7	182.7	193.8	198.9	204.0
142.5°	85.6	95.4	105.2	115.0	124.7	134.5	144.3	154.1	163.9	168.9	173.9
145°	67.4	75.8	84.3	92.7	101.1	109.5	118.0	126.4	134.8	139.9	145.0
147.5°	51.2	58.4	65.5	72.7	79.8	87.0	94.1	101.3	108.4	113.5	118.6
150°	36.8	42.8	48.7	54.7	60.7	66.7	72.6	78.6	84.6	89.3	94.0
152.5°	23.4	28.3	33.2	38.1	43.0	47.9	52.8	57.7	62.6	66.9	71.2
155°	13.3	16.9	20.6	24.2	27.8	31.4	35.1	38.7	42.3	46.1	49.9
157.5°	5.1	7.5	10.0	12.4	14.9	17.3	19.8	22.2	24.7	27.9	31.1
160°	1.3	2.6	3.8	5.1	6.4	7.7	8.9	10.2	11.5	13.8	16.2
162.5°	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	3.3	4.7
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	763.9	763.0	762.1	761.2	760.4	759.5	758.6	759.4	760.2	760.9	761.7
5°	748.0	747.4	746.9	746.3	745.7	745.1	744.5	745.0	745.5	746.0	746.5
7.5°	735.6	735.3	735.1	734.8	734.5	734.2	733.9	734.2	734.5	734.8	735.1
10°	730.7	730.5	730.3	730.1	729.9	729.7	729.5	729.4	729.3	729.2	729.1
12.5°	732.2	732.8	733.3	733.9	734.5	735.1	735.7	734.7	733.7	732.7	731.7
15°	745.6	747.2	748.7	750.3	751.9	753.4	755.0	753.3	751.7	750.0	748.4
17.5°	763.3	765.1	767.0	768.8	770.7	772.5	774.4	772.6	770.9	769.1	767.4
20°	779.4	781.7	783.9	786.2	788.4	790.7	792.9	790.5	788.0	785.6	783.1
22.5°	795.0	797.4	799.9	802.3	804.8	807.2	809.7	806.9	804.0	801.2	798.3
25°	809.4	812.2	815.1	817.9	820.7	823.6	826.4	823.3	820.1	817.0	813.9
27.5°	823.2	826.2	829.3	832.3	835.3	838.4	841.4	838.1	834.7	831.4	828.1
30°	836.4	840.0	843.6	847.2	850.9	854.5	858.1	854.3	850.5	846.7	842.9
32.5°	849.3	853.4	857.6	861.7	865.8	869.9	874.0	869.7	865.4	861.1	856.8
35°	862.5	867.2	871.9	876.6	881.3	886.0	890.7	885.9	881.1	876.3	871.5
37.5°	876.0	881.4	886.8	892.2	897.5	902.9	908.3	903.0	897.7	892.5	887.2
40°	889.2	895.2	901.2	907.2	913.1	919.1	925.1	919.3	913.5	907.8	902.0
42.5°	901.9	908.5	915.2	921.8	928.5	935.1	941.8	935.5	929.3	923.0	916.7
45°	915.9	923.2	930.4	937.7	944.9	952.2	959.4	952.6	945.9	939.1	932.4
47.5°	931.3	939.2	947.1	955.0	963.0	970.9	978.8	971.5	964.1	956.8	949.4
50°	946.2	955.0	963.9	972.7	981.5	990.3	999.1	991.1	983.0	975.0	967.0
52.5°	960.0	969.6	979.2	988.8	998.4	1008.0	1017.6	1009.0	1000.4	991.8	983.2
55°	974.7	984.8	994.9	1005.0	1015.0	1025.1	1035.2	1026.1	1017.0	1007.9	998.8
57.5°	987.3	998.1	1008.8	1019.6	1030.4	1041.1	1051.9	1042.3	1032.7	1023.1	1013.5
60°	997.0	1008.1	1019.1	1030.2	1041.3	1052.3	1063.4	1053.7	1044.0	1034.3	1024.6
62.5°	1003.5	1014.6	1025.8	1036.9	1048.1	1059.2	1070.4	1060.6	1050.8	1041.0	1031.2
65°	1006.5	1017.7	1029.0	1040.2	1051.5	1062.7	1074.0	1064.0	1054.0	1044.0	1034.0
67.5°	1002.9	1014.1	1025.4	1036.6	1047.9	1059.1	1070.4	1060.6	1050.8	1041.0	1031.2
70°	993.5	1004.6	1015.6	1026.7	1037.8	1048.8	1059.9	1050.0	1040.1	1030.2	1020.3
72.5°	974.7	985.4	996.0	1006.7	1017.4	1028.0	1038.7	1029.1	1019.5	1009.9	1000.3
75°	947.1	957.4	967.7	978.0	988.2	998.5	1008.8	999.5	990.2	980.9	971.6
77.5°	912.2	922.3	932.3	942.4	952.5	962.6	972.7	963.5	954.3	945.1	935.9
80°	874.3	884.1	893.8	903.6	913.4	923.2	933.0	924.0	915.0	906.0	897.0
82.5°	834.1	843.7	853.2	862.8	872.4	882.0	891.6	883.3	875.0	866.6	858.3
85°	799.7	809.0	818.3	827.6	836.9	846.2	855.5	846.9	838.3	829.6	821.0
87.5°	760.3	769.4	778.6	787.7	796.8	805.9	815.0	806.8	798.5	790.3	782.1
90°	731.5	740.1	748.8	757.4	766.0	774.6	783.2	775.2	767.2	759.1	751.1
92.5°	706.0	714.3	722.6	730.9	739.3	747.6	755.9	748.1	740.2	732.4	724.6
95°	679.3	687.2	695.1	703.0	711.0	718.9	726.8	719.5	712.1	704.8	697.5
97.5°	655.2	662.7	670.3	677.8	685.3	692.9	700.4	693.5	686.5	679.6	672.6
100°	633.4	640.8	648.1	655.5	662.8	670.2	677.5	670.4	663.2	656.1	648.9
102.5°	612.3	619.7	627.0	634.4	641.7	649.1	656.4	649.2	641.9	634.7	627.4
105°	589.1	596.1	603.0	610.0	616.9	623.9	630.8	623.9	617.1	610.2	603.4
107.5°	565.6	572.4	579.1	585.9	592.6	599.4	606.1	599.4	592.8	586.1	579.5
110°	542.1	549.0	555.8	562.7	569.5	576.4	583.2	576.5	569.7	563.0	556.2



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	516.3	522.7	529.2	535.6	542.1	548.5	555.0	548.6	542.3	535.9	529.6
115°	490.7	496.9	503.0	509.2	515.4	521.5	527.7	521.6	515.6	509.5	503.4
117.5°	464.9	471.0	477.0	483.1	489.2	495.2	501.3	495.4	489.5	483.7	477.8
120°	438.4	444.2	450.0	455.8	461.5	467.3	473.1	467.5	461.9	456.4	450.8
122.5°	411.7	417.4	423.1	428.8	434.4	440.1	445.8	440.5	435.2	429.9	424.6
125°	384.7	390.2	395.7	401.2	406.6	412.1	417.6	412.5	407.4	402.3	397.2
127.5°	356.8	362.1	367.4	372.7	377.9	383.2	388.5	383.7	378.9	374.1	369.3
130°	328.1	333.2	338.2	343.3	348.4	353.5	358.6	354.0	349.4	344.8	340.2
132.5°	298.4	303.3	308.1	313.0	317.9	322.8	327.7	323.4	319.1	314.8	310.5
135°	269.9	274.4	278.9	283.4	287.9	292.4	296.9	293.0	289.1	285.2	281.3
137.5°	239.9	244.4	249.0	253.5	258.0	262.5	267.0	263.4	259.8	256.1	252.5
140°	209.1	214.2	219.2	224.3	229.4	234.5	239.6	236.0	232.4	228.7	225.1
142.5°	178.9	183.9	188.8	193.8	198.8	203.8	208.8	205.8	202.7	199.7	196.7
145°	150.1	155.2	160.2	165.3	170.4	175.5	180.6	177.9	175.1	172.4	169.6
147.5°	123.7	128.8	133.8	138.9	144.0	149.1	154.2	151.7	149.1	146.6	144.0
150°	98.7	103.4	108.1	112.8	117.5	122.2	126.9	124.7	122.6	120.4	118.3
152.5°	75.5	79.8	84.1	88.4	92.7	97.0	101.3	99.4	97.6	95.7	93.9
155°	53.7	57.5	61.4	65.2	69.0	72.8	76.6	75.2	73.9	72.5	71.1
157.5°	34.4	37.6	40.8	44.0	47.3	50.5	53.7	52.6	51.6	50.5	49.4
160°	18.5	20.9	23.2	25.6	27.9	30.3	32.6	31.8	31.0	30.2	29.4
162.5°	6.2	7.7	9.1	10.6	12.1	13.5	15.0	14.6	14.2	13.8	13.4
165°	1.2	1.6	1.9	2.3	2.7	3.1	3.5	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	762.5	763.3	764.0	764.8	765.6	767.0	768.3	769.7	771.1	772.4	773.8
5°	746.9	747.4	747.9	748.4	748.9	750.5	752.0	753.6	755.2	756.7	758.3
7.5°	735.3	735.6	735.9	736.2	736.5	737.9	739.3	740.6	742.0	743.4	744.8
10°	729.0	728.9	728.8	728.7	728.6	729.6	730.6	731.5	732.5	733.5	734.5
12.5°	730.8	729.8	728.8	727.8	726.8	727.0	727.2	727.4	727.6	727.8	728.0
15°	746.7	745.1	743.4	741.8	740.1	738.1	736.2	734.2	732.2	730.3	728.3
17.5°	765.6	763.9	762.1	760.4	758.6	754.5	750.4	746.3	742.2	738.0	733.9
20°	780.7	778.2	775.8	773.3	770.9	766.1	761.3	756.5	751.7	746.9	742.1
22.5°	795.5	792.6	789.8	786.9	784.1	778.4	772.7	767.1	761.4	755.7	750.0
25°	810.7	807.6	804.5	801.3	798.2	791.5	784.9	778.2	771.6	764.9	758.3
27.5°	824.7	821.4	818.1	814.7	811.4	803.8	796.1	788.5	780.9	773.2	765.6
30°	839.0	835.2	831.4	827.6	823.8	815.2	806.6	797.9	789.3	780.7	772.1
32.5°	852.4	848.1	843.8	839.5	835.2	825.4	815.6	805.8	796.0	786.3	776.5
35°	866.7	861.9	857.1	852.3	847.5	836.5	825.6	814.6	803.7	792.7	781.8
37.5°	881.9	876.6	871.4	866.1	860.8	848.7	836.5	824.4	812.2	800.1	787.9
40°	896.2	890.4	884.7	878.9	873.1	859.8	846.5	833.2	819.9	806.5	793.2
42.5°	910.5	904.2	897.9	891.7	885.4	870.7	856.0	841.4	826.7	812.0	797.3
45°	925.6	918.9	912.1	905.4	898.6	882.5	866.3	850.2	834.0	817.9	801.7
47.5°	942.1	934.7	927.4	920.0	912.7	894.9	877.1	859.3	841.5	823.6	805.8
50°	958.9	950.9	942.9	934.8	926.8	907.2	887.6	868.1	848.5	828.9	809.3
52.5°	974.5	965.9	957.3	948.7	940.1	918.8	897.4	876.1	854.7	833.4	812.0
55°	989.7	980.6	971.5	962.4	953.3	930.2	907.1	884.0	860.9	837.8	814.7
57.5°	1004.0	994.4	984.8	975.2	965.6	940.9	916.3	891.6	866.9	842.3	817.6
60°	1015.0	1005.3	995.6	985.9	976.2	950.0	923.7	897.5	871.3	845.0	818.8
62.5°	1021.5	1011.7	1001.9	992.1	982.3	954.9	927.5	900.1	872.7	845.3	817.9
65°	1024.1	1014.1	1004.1	994.1	984.1	955.8	927.5	899.2	870.9	842.7	814.4
67.5°	1021.5	1011.7	1001.9	992.1	982.3	953.3	924.4	895.4	866.4	837.5	808.5
70°	1010.5	1000.6	990.7	980.8	970.9	941.8	912.7	883.7	854.6	825.5	796.4
72.5°	990.8	981.2	971.6	962.0	952.4	923.5	894.6	865.8	836.9	808.0	779.1
75°	962.3	953.0	943.7	934.4	925.1	896.7	868.3	839.9	811.5	783.2	754.8
77.5°	926.6	917.4	908.2	899.0	889.8	862.2	834.6	807.0	779.4	751.8	724.2
80°	888.0	879.0	870.0	861.0	852.0	825.3	798.5	771.8	745.1	718.3	691.6
82.5°	850.0	841.7	833.3	825.0	816.7	790.4	764.0	737.7	711.4	685.0	658.7
85°	812.4	803.8	795.1	786.5	777.9	752.6	727.2	701.9	676.5	651.2	625.8
87.5°	773.8	765.6	757.4	749.1	740.9	716.6	692.4	668.1	643.8	619.6	595.3
90°	743.1	735.1	727.0	719.0	711.0	687.8	664.6	641.4	618.2	595.0	571.8
92.5°	716.7	708.9	701.1	693.2	685.4	663.1	640.8	618.5	596.2	573.8	551.5
95°	690.1	682.8	675.5	668.1	660.8	639.3	617.7	596.2	574.6	553.1	531.5
97.5°	665.7	658.7	651.8	644.8	637.9	617.0	596.2	575.3	554.5	533.6	512.8
100°	641.8	634.6	627.5	620.3	613.2	593.1	573.1	553.0	532.9	512.9	492.8
102.5°	620.2	612.9	605.7	598.4	591.2	571.6	552.0	532.5	512.9	493.3	473.7
105°	596.5	589.7	582.8	576.0	569.1	549.9	530.7	511.6	492.4	473.2	454.0
107.5°	572.8	566.2	559.5	552.9	546.2	527.7	509.2	490.7	472.2	453.7	435.2
110°	549.5	542.7	536.0	529.2	522.5	504.7	486.9	469.0	451.2	433.4	415.6



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	523.2	516.9	510.5	504.2	497.8	480.7	463.5	446.4	429.3	412.1	395.0
115°	497.4	491.3	485.2	479.2	473.1	456.7	440.2	423.8	407.3	390.9	374.4
117.5°	471.9	466.0	460.2	454.3	448.4	432.5	416.7	400.8	385.0	369.1	353.3
120°	445.2	439.6	434.1	428.5	422.9	407.6	392.4	377.1	361.8	346.6	331.3
122.5°	419.4	414.1	408.8	403.5	398.2	383.3	368.4	353.6	338.7	323.8	308.9
125°	392.2	387.1	382.0	376.9	371.8	357.4	343.0	328.6	314.2	299.9	285.5
127.5°	364.6	359.8	355.0	350.2	345.4	331.7	318.0	304.3	290.6	276.8	263.1
130°	335.6	331.0	326.4	321.8	317.2	304.2	291.2	278.1	265.1	252.1	239.1
132.5°	306.2	301.9	297.6	293.3	289.0	276.9	264.7	252.6	240.4	228.3	216.1
135°	277.3	273.4	269.5	265.6	261.7	250.4	239.2	227.9	216.6	205.4	194.1
137.5°	248.9	245.3	241.6	238.0	234.4	224.0	213.6	203.3	192.9	182.5	172.1
140°	221.5	217.9	214.2	210.6	207.0	197.7	188.4	179.1	169.8	160.5	151.2
142.5°	193.6	190.6	187.6	184.5	181.5	173.0	164.5	155.9	147.4	138.9	130.4
145°	166.9	164.1	161.4	158.6	155.9	148.3	140.6	133.0	125.4	117.7	110.1
147.5°	141.5	138.9	136.4	133.8	131.3	124.4	117.6	110.7	103.9	97.0	90.2
150°	116.1	114.0	111.8	109.7	107.5	101.5	95.5	89.6	83.6	77.6	71.6
152.5°	92.0	90.2	88.3	86.5	84.6	79.4	74.2	69.0	63.8	58.7	53.5
155°	69.8	68.4	67.0	65.7	64.3	59.9	55.5	51.1	46.7	42.3	37.9
157.5°	48.4	47.3	46.2	45.2	44.1	40.7	37.2	33.8	30.4	26.9	23.5
160°	28.7	27.9	27.1	26.3	25.5	23.4	21.4	19.3	17.3	15.2	13.2
162.5°	13.1	12.7	12.3	11.9	11.5	10.5	9.5	8.5	7.5	6.6	5.6
165°	3.5	3.5	3.5	3.5	3.5	3.2	2.9	2.6	2.3	2.1	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	775.2	776.5	777.9	778.3	778.7	779.1	779.5	779.9	780.3	780.7	781.1
5°	759.9	761.4	763.0	763.9	764.8	765.6	766.5	767.4	768.3	769.1	770.0
7.5°	746.1	747.5	748.9	749.9	750.9	751.8	752.8	753.8	754.8	755.7	756.7
10°	735.4	736.4	737.4	738.1	738.8	739.5	740.2	740.8	741.5	742.2	742.9
12.5°	728.2	728.4	728.6	728.7	728.8	728.9	729.0	729.1	729.2	729.3	729.4
15°	726.3	724.4	722.4	721.4	720.4	719.5	718.5	717.5	716.5	715.6	714.6
17.5°	729.8	725.7	721.6	719.1	716.5	714.0	711.4	708.9	706.3	703.8	701.2
20°	737.3	732.5	727.7	722.7	717.7	712.7	707.7	702.8	697.8	692.8	687.8
22.5°	744.4	738.7	733.0	725.7	718.3	711.0	703.6	696.3	688.9	681.6	674.2
25°	751.6	745.0	738.3	728.5	718.7	708.9	699.1	689.4	679.6	669.8	660.0
27.5°	758.0	750.3	742.7	730.7	718.6	706.6	694.5	682.5	670.4	658.4	646.3
30°	763.4	754.8	746.2	732.3	718.4	704.5	690.6	676.7	662.8	648.9	635.0
32.5°	766.7	756.9	747.1	731.9	716.8	701.6	686.4	671.3	656.1	640.9	625.8
35°	770.8	759.9	748.9	732.5	716.0	699.6	683.1	666.7	650.2	633.8	617.3
37.5°	775.8	763.6	751.5	733.5	715.5	697.5	679.5	661.4	643.4	625.4	607.4
40°	779.9	766.6	753.3	733.9	714.5	695.1	675.7	656.4	637.0	617.6	598.2
42.5°	782.7	768.0	753.3	732.5	711.8	691.0	670.3	649.5	628.8	608.0	587.3
45°	785.6	769.4	753.3	731.1	708.9	686.6	664.4	642.2	620.0	597.7	575.5
47.5°	788.0	770.2	752.4	728.8	705.2	681.6	658.0	634.5	610.9	587.3	563.7
50°	789.8	770.2	750.6	725.5	700.5	675.4	650.4	625.3	600.3	575.2	550.2
52.5°	790.7	769.3	748.0	721.6	695.1	668.7	642.3	615.8	589.4	563.0	536.5
55°	791.6	768.5	745.4	717.6	689.8	662.0	634.2	606.3	578.5	550.7	522.9
57.5°	792.9	768.3	743.6	714.2	684.9	655.5	626.1	596.8	567.4	538.0	508.7
60°	792.6	766.3	740.1	709.3	678.4	647.6	616.7	585.9	555.0	524.2	493.3
62.5°	790.5	763.1	735.7	703.5	671.3	639.1	606.9	574.6	542.4	510.2	478.0
65°	786.1	757.8	729.5	695.7	661.9	628.2	594.4	560.6	526.8	493.1	459.3
67.5°	779.5	750.6	721.6	686.6	651.7	616.7	581.8	546.8	511.9	476.9	442.0
70°	767.4	738.3	709.2	673.5	637.8	602.0	566.3	530.6	494.9	459.1	423.4
72.5°	750.3	721.4	692.5	656.3	620.1	583.8	547.6	511.4	475.2	438.9	402.7
75°	726.4	698.0	669.6	633.4	597.2	560.9	524.7	488.5	452.3	416.0	379.8
77.5°	696.6	669.0	641.4	605.9	570.3	534.8	499.3	463.7	428.2	392.7	357.1
80°	664.9	638.1	611.4	576.7	542.1	507.4	472.8	438.1	403.5	368.8	334.2
82.5°	632.4	606.0	579.7	546.1	512.5	479.0	445.4	411.8	378.2	344.7	311.1
85°	600.5	575.1	549.8	517.3	484.8	452.3	419.8	387.3	354.8	322.3	289.8
87.5°	571.0	546.8	522.5	491.1	459.6	428.2	396.8	365.3	333.9	302.5	271.0
90°	548.6	525.4	502.2	471.7	441.1	410.6	380.0	349.5	318.9	288.4	257.8
92.5°	529.2	506.9	484.6	454.9	425.3	395.6	365.9	336.3	306.6	276.9	247.3
95°	510.0	488.4	466.9	437.8	408.8	379.7	350.6	321.6	292.5	263.4	234.4
97.5°	491.9	471.1	450.2	421.8	393.4	365.0	336.6	308.3	279.9	251.5	223.1
100°	472.7	452.7	432.6	404.9	377.2	349.5	321.8	294.1	266.4	238.7	211.0
102.5°	454.2	434.6	415.0	388.0	361.0	333.9	306.9	279.9	252.9	225.8	198.8
105°	434.9	415.7	396.5	370.3	344.0	317.8	291.5	265.3	239.0	212.8	186.5
107.5°	416.7	398.2	379.7	354.1	328.4	302.8	277.1	251.5	225.8	200.2	174.5
110°	397.7	379.9	362.1	337.1	312.2	287.2	262.2	237.3	212.3	187.3	162.4



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	377.9	360.7	343.6	319.4	295.2	271.1	246.9	222.7	198.5	174.4	150.2
115°	358.0	341.5	325.1	301.7	278.3	254.9	231.5	208.1	184.7	161.3	137.9
117.5°	337.4	321.6	305.7	283.2	260.7	238.2	215.7	193.1	170.6	148.1	125.6
120°	316.0	300.8	285.5	264.1	242.6	221.2	199.7	178.3	156.8	135.4	113.9
122.5°	294.1	279.2	264.3	244.0	223.8	203.5	183.2	163.0	142.7	122.4	102.2
125°	271.1	256.7	242.3	223.3	204.3	185.3	166.3	147.4	128.4	109.4	90.4
127.5°	249.4	235.7	222.0	204.1	186.2	168.3	150.4	132.4	114.5	96.6	78.7
130°	226.0	213.0	200.0	183.5	166.9	150.4	133.8	117.3	100.7	84.2	67.6
132.5°	204.0	191.8	179.7	164.4	149.2	133.9	118.6	103.4	88.1	72.8	57.6
135°	182.8	171.6	160.3	146.2	132.1	118.0	103.9	89.9	75.8	61.7	47.6
137.5°	161.8	151.4	141.0	128.3	115.5	102.8	90.1	77.3	64.6	51.9	39.1
140°	141.9	132.6	123.3	111.7	100.0	88.4	76.7	65.1	53.4	41.8	30.1
142.5°	121.8	113.3	104.8	94.5	84.2	74.0	63.7	53.4	43.1	32.9	22.6
145°	102.5	94.8	87.2	78.4	69.6	60.8	52.0	43.1	34.3	25.5	16.7
147.5°	83.3	76.5	69.6	62.6	55.5	48.5	41.4	34.4	27.3	20.3	13.2
150°	65.7	59.7	53.7	48.2	42.7	37.3	31.8	26.3	20.8	15.4	9.9
152.5°	48.3	43.1	37.9	34.0	30.1	26.1	22.2	18.3	14.4	10.4	6.5
155°	33.5	29.1	24.7	22.2	19.6	17.1	14.5	12.0	9.4	6.9	4.3
157.5°	20.1	16.6	13.2	11.8	10.5	9.1	7.7	6.4	5.0	3.6	2.3
160°	11.1	9.1	7.0	6.3	5.6	5.0	4.3	3.6	2.9	2.3	1.6
162.5°	4.6	3.6	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.3	1.1
165°	1.5	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	781.5	783.9	786.4	788.8	791.3	793.7	796.2	798.6	801.1	803.5	803.7
5°	770.9	774.1	777.4	780.6	783.8	787.1	790.3	793.5	796.8	800.0	801.3
7.5°	757.7	761.6	765.5	769.4	773.3	777.3	781.2	785.1	789.0	792.9	795.4
10°	743.6	748.2	752.8	757.4	762.0	766.6	771.2	775.8	780.4	785.0	788.6
12.5°	729.5	734.4	739.3	744.2	749.1	753.9	758.8	763.7	768.6	773.5	778.2
15°	713.6	718.8	724.0	729.2	734.4	739.5	744.7	749.9	755.1	760.3	766.3
17.5°	698.7	703.9	709.1	714.3	719.5	724.6	729.8	735.0	740.2	745.4	752.6
20°	682.8	687.7	692.6	697.5	702.4	707.2	712.1	717.0	721.9	726.8	735.4
22.5°	666.9	671.4	675.9	680.4	684.9	689.5	694.0	698.5	703.0	707.5	717.7
25°	650.2	654.1	658.0	661.9	665.8	669.8	673.7	677.6	681.5	685.4	697.1
27.5°	634.3	637.4	640.6	643.7	646.8	650.0	653.1	656.2	659.4	662.5	675.7
30°	621.1	623.0	624.8	626.7	628.6	630.4	632.3	634.2	636.0	637.9	652.9
32.5°	610.6	610.7	610.8	610.9	611.0	611.0	611.1	611.2	611.3	611.4	628.1
35°	600.9	598.9	597.0	595.0	593.0	591.1	589.1	587.1	585.2	583.2	602.1
37.5°	589.4	585.6	581.8	577.9	574.1	570.3	566.5	562.6	558.8	555.0	576.1
40°	578.8	572.9	567.1	561.2	555.3	549.5	543.6	537.7	531.9	526.0	549.3
42.5°	566.5	558.6	550.6	542.7	534.8	526.8	518.9	511.0	503.0	495.1	520.8
45°	553.3	543.4	533.5	523.6	513.7	503.9	494.0	484.1	474.2	464.3	492.0
47.5°	540.1	528.3	516.4	504.6	492.7	480.9	469.0	457.2	445.3	433.5	463.5
50°	525.1	511.5	497.9	484.3	470.7	457.0	443.4	429.8	416.2	402.6	434.7
52.5°	510.1	494.5	479.0	463.4	447.8	432.3	416.7	401.1	385.6	370.0	404.4
55°	495.1	477.7	460.3	442.8	425.4	408.0	390.6	373.1	355.7	338.3	374.6
57.5°	479.3	460.2	441.1	422.0	402.9	383.9	364.8	345.7	326.6	307.5	345.6
60°	462.5	441.8	421.2	400.5	379.9	359.2	338.6	317.9	297.3	276.6	316.3
62.5°	445.8	423.6	401.4	379.1	356.9	334.7	312.5	290.2	268.0	245.8	287.1
65°	425.5	402.1	378.7	355.3	331.9	308.6	285.2	261.8	238.4	215.0	257.7
67.5°	407.0	382.0	357.1	332.1	307.2	282.2	257.3	232.3	207.4	182.4	226.5
70°	387.7	361.7	335.6	309.6	283.5	257.5	231.4	205.4	179.3	153.3	198.4
72.5°	366.5	339.7	312.9	286.0	259.2	232.4	205.6	178.7	151.9	125.1	171.0
75°	343.6	316.4	289.2	262.0	234.8	207.5	180.3	153.1	125.9	98.7	145.0
77.5°	321.6	294.1	266.6	239.1	211.6	184.0	156.5	129.0	101.5	74.0	120.5
80°	299.5	272.0	244.5	217.0	189.5	162.0	134.5	107.0	79.5	52.0	98.3
82.5°	277.5	250.3	223.1	195.9	168.7	141.4	114.2	87.0	59.8	32.6	78.4
85°	257.3	230.6	203.8	177.1	150.4	123.6	96.9	70.2	43.4	16.7	61.6
87.5°	239.6	213.6	187.5	161.5	135.5	109.4	83.4	57.4	31.3	5.3	49.1
90°	227.3	202.1	177.0	151.8	126.7	101.5	76.4	51.2	26.1	0.9	43.0
92.5°	217.6	193.4	169.2	145.1	120.9	96.7	72.5	48.4	24.2	0.0	40.6
95°	205.3	182.6	159.9	137.2	114.5	91.7	69.0	46.3	23.6	0.9	39.8
97.5°	194.7	173.1	151.4	129.8	108.2	86.5	64.9	43.3	21.6	0.0	37.2
100°	183.3	163.0	142.8	122.5	102.2	82.0	61.7	41.4	21.2	0.9	36.2
102.5°	171.8	152.8	133.8	114.8	95.8	76.9	57.9	38.9	19.9	0.9	34.8
105°	160.3	142.6	124.9	107.2	89.5	71.7	54.0	36.3	18.6	0.9	32.7
107.5°	148.9	132.5	116.0	99.6	83.1	66.7	50.2	33.8	17.3	0.9	31.0
110°	137.4	122.2	107.1	91.9	76.7	61.6	46.4	31.2	16.1	0.9	29.1



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	126.0	112.1	98.2	84.3	70.4	56.5	42.6	28.7	14.8	0.9	27.0
115°	114.5	101.9	89.3	76.6	64.0	51.4	38.8	26.1	13.5	0.9	24.9
117.5°	103.1	91.7	80.4	69.0	57.7	46.3	35.0	23.6	12.3	0.9	22.7
120°	92.5	82.3	72.1	62.0	51.8	41.6	31.4	21.3	11.1	0.9	20.7
122.5°	81.9	72.9	63.9	54.9	45.9	36.9	27.9	18.9	9.9	0.9	18.6
125°	71.4	63.6	55.7	47.9	40.1	32.2	24.4	16.6	8.7	0.9	16.5
127.5°	60.8	54.1	47.5	40.8	34.2	27.5	20.9	14.2	7.6	0.9	14.0
130°	51.1	45.5	39.9	34.4	28.8	23.2	17.6	12.1	6.5	0.9	11.8
132.5°	42.3	37.7	33.1	28.5	23.9	19.3	14.7	10.1	5.5	0.9	9.6
135°	33.5	29.9	26.3	22.6	19.0	15.4	11.8	8.1	4.5	0.9	7.7
137.5°	26.4	23.6	20.7	17.9	15.1	12.2	9.4	6.6	3.7	0.9	6.1
140°	18.5	16.5	14.6	12.6	10.7	8.7	6.8	4.8	2.9	0.9	4.5
142.5°	12.3	11.0	9.8	8.5	7.2	6.0	4.7	3.4	2.2	0.9	3.5
145°	7.9	7.1	6.3	5.6	4.8	4.0	3.2	2.5	1.7	0.9	2.6
147.5°	6.2	5.6	5.0	4.4	3.8	3.3	2.7	2.1	1.5	0.9	2.1
150°	4.4	4.0	3.6	3.2	2.8	2.5	2.1	1.7	1.3	0.9	1.7
152.5°	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.3	1.1	0.9	1.5
155°	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	1.3
157.5°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
160°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8
162.5°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.7
165°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.6
167.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.6
170°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.6
172.5°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.6
175°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.6
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	803.9	804.1	804.3	804.5	804.7	804.9	805.1	805.3	806.1	806.9	807.6
5°	802.5	803.8	805.1	806.3	807.6	808.9	810.1	811.4	813.3	815.1	817.0
7.5°	797.8	800.3	802.7	805.2	807.6	810.1	812.5	815.0	818.0	821.1	824.1
10°	792.2	795.9	799.5	803.1	806.7	810.4	814.0	817.6	821.8	826.0	830.2
12.5°	782.9	787.6	792.3	797.0	801.7	806.4	811.1	815.8	821.6	827.4	833.1
15°	772.3	778.2	784.2	790.2	796.2	802.1	808.1	814.1	821.4	828.8	836.1
17.5°	759.9	767.1	774.3	781.6	788.8	796.0	803.3	810.5	819.9	829.3	838.7
20°	744.0	752.7	761.3	769.9	778.5	787.2	795.8	804.4	816.2	828.1	839.9
22.5°	727.9	738.0	748.2	758.4	768.6	778.7	788.9	799.1	813.6	828.1	842.6
25°	708.7	720.4	732.0	743.7	755.3	767.0	778.6	790.3	807.7	825.1	842.6
27.5°	688.9	702.2	715.4	728.6	741.8	755.1	768.3	781.5	801.9	822.2	842.6
30°	667.9	682.8	697.8	712.8	727.8	742.7	757.7	772.7	795.7	818.7	841.7
32.5°	644.9	661.6	678.4	695.1	711.9	728.6	745.4	762.1	787.7	813.4	839.0
35°	621.0	639.9	658.8	677.7	696.6	715.5	734.4	753.3	781.4	809.5	837.6
37.5°	597.1	618.2	639.2	660.3	681.3	702.4	723.4	744.5	774.9	805.4	835.8
40°	572.6	595.9	619.2	642.5	665.8	689.1	712.4	735.7	768.4	801.1	833.8
42.5°	546.4	572.1	597.7	623.4	649.0	674.7	700.3	726.0	760.8	795.7	830.5
45°	519.7	547.4	575.1	602.8	630.5	658.2	685.9	713.6	750.8	788.0	825.2
47.5°	493.4	523.4	553.3	583.3	613.2	643.2	673.1	703.1	742.2	781.2	820.3
50°	466.8	498.9	531.0	563.2	595.3	627.4	659.5	691.6	732.5	773.4	814.4
52.5°	438.7	473.1	507.5	541.8	576.2	610.6	644.9	679.3	721.9	764.5	807.0
55°	410.9	447.3	483.6	519.9	556.2	592.6	628.9	665.2	709.5	753.9	798.2
57.5°	383.7	421.7	459.8	497.9	536.0	574.0	612.1	650.2	696.4	742.6	788.8
60°	356.1	395.8	435.6	475.3	515.1	554.8	594.6	634.3	682.2	730.1	777.9
62.5°	328.4	369.7	411.0	452.4	493.7	535.0	576.3	617.6	667.1	716.7	766.2
65°	300.4	343.0	385.7	428.4	471.1	513.7	556.4	599.1	650.3	701.5	752.7
67.5°	270.7	314.8	359.0	403.1	447.3	491.4	535.6	579.7	632.5	685.2	738.0
70°	243.6	288.7	333.8	379.0	424.1	469.2	514.4	559.5	613.5	667.6	721.6
72.5°	216.9	262.8	308.7	354.7	400.6	446.5	492.4	538.3	593.0	647.7	702.5
75°	191.3	237.6	283.9	330.2	376.5	422.8	469.1	515.4	570.7	626.0	681.3
77.5°	167.0	213.5	260.0	306.5	353.0	399.5	446.0	492.5	547.8	603.1	658.4
80°	144.6	190.9	237.2	283.5	329.8	376.1	422.4	468.7	523.7	578.7	633.7
82.5°	124.2	170.0	215.8	261.7	307.5	353.3	399.1	444.9	499.4	554.0	608.5
85°	106.6	151.5	196.4	241.4	286.3	331.2	376.2	421.1	474.9	528.8	582.6
87.5°	92.8	136.6	180.3	224.1	267.8	311.6	355.3	399.1	452.0	504.8	557.7
90°	85.1	127.2	169.3	211.3	253.4	295.5	337.6	379.7	431.4	483.1	534.8
92.5°	81.2	121.9	162.5	203.1	243.7	284.4	325.0	365.6	416.3	467.0	517.7
95°	78.6	117.5	156.3	195.2	234.0	272.9	311.7	350.6	400.5	450.5	500.4
97.5°	74.4	111.6	148.8	186.0	223.2	260.4	297.6	334.8	384.0	433.3	482.5
100°	71.6	106.9	142.2	177.6	212.9	248.2	283.6	318.9	367.4	415.8	464.3
102.5°	68.6	102.5	136.4	170.2	204.1	238.0	271.8	305.7	353.1	400.5	447.8
105°	64.5	96.3	128.1	160.0	191.8	223.6	255.4	287.2	333.8	380.4	427.0
107.5°	61.2	91.3	121.5	151.6	181.8	211.9	242.1	272.2	317.5	362.9	408.2
110°	57.3	85.5	113.7	141.8	170.0	198.2	226.4	254.6	298.8	342.9	387.1



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	53.2	79.3	105.4	131.6	157.7	183.8	210.0	236.1	279.2	322.3	365.3
115°	48.9	72.8	96.8	120.8	144.8	168.7	192.7	216.7	258.7	300.7	342.7
117.5°	44.6	66.4	88.2	110.1	131.9	153.7	175.6	197.4	238.0	278.6	319.3
120°	40.4	60.2	80.0	99.7	119.5	139.3	159.0	178.8	218.1	257.3	296.6
122.5°	36.3	54.0	71.7	89.5	107.2	124.9	142.6	160.3	198.0	235.7	273.4
125°	32.0	47.6	63.2	78.7	94.3	109.9	125.4	141.0	176.9	212.8	248.8
127.5°	27.1	40.2	53.3	66.5	79.6	92.7	105.8	118.9	152.8	186.7	220.5
130°	22.6	33.5	44.4	55.2	66.1	77.0	87.8	98.7	129.4	160.2	190.9
132.5°	18.3	27.0	35.7	44.5	53.2	61.9	70.6	79.3	107.0	134.7	162.4
135°	14.4	21.2	27.9	34.7	41.4	48.2	54.9	61.7	86.6	111.4	136.3
137.5°	11.3	16.5	21.7	26.8	32.0	37.2	42.4	47.6	69.6	91.6	113.7
140°	8.1	11.8	15.4	19.0	22.6	26.3	29.9	33.5	52.8	72.1	91.3
142.5°	6.2	8.8	11.5	14.1	16.8	19.4	22.1	24.7	41.1	57.6	74.0
145°	4.2	5.9	7.6	9.2	10.9	12.6	14.2	15.9	29.8	43.7	57.6
147.5°	3.3	4.4	5.6	6.8	8.0	9.1	10.3	11.5	22.7	33.8	45.0
150°	2.5	3.2	4.0	4.8	5.6	6.3	7.1	7.9	16.4	24.9	33.5
152.5°	2.1	2.7	3.3	3.8	4.4	5.0	5.6	6.2	12.4	18.5	24.7
155°	1.7	2.1	2.5	2.8	3.2	3.6	4.0	4.4	8.3	12.2	16.1
157.5°	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.6	4.9	7.1	9.4
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.0	4.1	5.3
162.5°	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	1.5	2.1	2.7
165°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.2	0.4	0.6
167.5°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
170°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
172.5°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
175°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	808.4	809.2	810.0	810.7	811.5	812.3	812.7	813.1	813.5	813.9	814.2
5°	818.9	820.7	822.6	824.5	826.3	828.2	829.2	830.2	831.1	832.1	833.1
7.5°	827.1	830.2	833.2	836.2	839.3	842.3	844.2	846.0	847.9	849.7	851.6
10°	834.4	838.7	842.9	847.1	851.3	855.5	858.6	861.8	864.9	868.0	871.2
12.5°	838.9	844.7	850.5	856.2	862.0	867.8	872.2	876.6	881.0	885.4	889.9
15°	843.4	850.8	858.1	865.4	872.8	880.1	886.2	892.3	898.3	904.4	910.5
17.5°	848.1	857.5	866.9	876.3	885.7	895.1	903.4	911.7	920.1	928.4	936.7
20°	851.8	863.6	875.5	887.3	899.2	911.0	921.2	931.4	941.5	951.7	961.9
22.5°	857.1	871.5	886.0	900.5	915.0	929.5	941.0	952.6	964.1	975.7	987.2
25°	860.0	877.4	894.8	912.3	929.7	947.1	960.2	973.3	986.5	999.6	1012.7
27.5°	862.9	883.3	903.6	924.0	944.3	964.7	979.1	993.5	1007.9	1022.3	1036.6
30°	864.7	887.7	910.7	933.7	956.7	979.7	995.6	1011.4	1027.3	1043.1	1059.0
32.5°	864.7	890.3	916.0	941.6	967.3	992.9	1010.3	1027.7	1045.2	1062.6	1080.0
35°	865.7	893.7	921.8	949.9	978.0	1006.1	1025.2	1044.3	1063.4	1082.5	1101.5
37.5°	866.3	896.7	927.2	957.6	988.1	1018.5	1039.2	1060.0	1080.7	1101.5	1122.2
40°	866.5	899.1	931.8	964.5	997.2	1029.9	1052.3	1074.7	1097.2	1119.6	1142.0
42.5°	865.4	900.2	935.1	969.9	1004.8	1039.6	1063.7	1087.8	1111.8	1135.9	1160.0
45°	862.4	899.6	936.8	974.0	1011.2	1048.4	1074.3	1100.3	1126.2	1152.2	1178.1
47.5°	859.3	898.4	937.4	976.5	1015.5	1054.6	1082.7	1110.8	1138.9	1167.0	1195.0
50°	855.3	896.2	937.1	978.1	1019.0	1059.9	1090.0	1120.2	1150.3	1180.5	1210.6
52.5°	849.6	892.2	934.8	977.3	1019.9	1062.5	1095.0	1127.5	1160.0	1192.5	1225.0
55°	842.6	886.9	931.3	975.6	1020.0	1064.3	1098.8	1133.2	1167.7	1202.1	1236.6
57.5°	835.0	881.2	927.4	973.6	1019.8	1066.0	1102.4	1138.8	1175.3	1211.7	1248.1
60°	825.8	873.7	921.6	969.4	1017.3	1065.2	1103.4	1141.6	1179.7	1217.9	1256.1
62.5°	815.7	865.3	914.8	964.3	1013.9	1063.4	1103.0	1142.7	1182.3	1222.0	1261.6
65°	803.9	855.1	906.3	957.5	1008.7	1059.9	1100.7	1141.5	1182.4	1223.2	1264.0
67.5°	790.8	843.5	896.3	949.1	1001.8	1054.6	1096.3	1138.0	1179.7	1221.4	1263.1
70°	775.6	829.7	883.7	937.7	991.8	1045.8	1088.3	1130.8	1173.2	1215.7	1258.2
72.5°	757.2	811.9	866.6	921.4	976.1	1030.8	1073.9	1117.0	1160.0	1203.1	1246.2
75°	736.6	792.0	847.3	902.6	957.9	1013.2	1056.6	1099.9	1143.3	1186.7	1230.0
77.5°	713.7	769.1	824.4	879.7	935.0	990.3	1033.5	1076.6	1119.8	1163.0	1206.1
80°	688.7	743.8	798.8	853.8	908.8	963.8	1006.6	1049.4	1092.2	1135.0	1177.7
82.5°	663.0	717.6	772.1	826.6	881.2	935.7	978.2	1020.7	1063.1	1105.6	1148.1
85°	636.5	690.3	744.2	798.0	851.9	905.7	947.1	988.5	1029.9	1071.3	1112.8
87.5°	610.6	663.4	716.3	769.2	822.0	874.9	915.7	956.5	997.4	1038.2	1079.0
90°	586.5	638.1	689.8	741.5	793.2	844.9	884.4	924.0	963.5	1003.1	1042.6
92.5°	568.4	619.2	669.9	720.6	771.3	822.0	860.5	898.9	937.4	975.9	1014.3
95°	550.3	600.3	650.2	700.1	750.1	800.0	837.9	875.8	913.6	951.5	989.4
97.5°	531.7	581.0	630.2	679.4	728.7	777.9	814.8	851.7	888.6	925.5	962.5
100°	512.7	561.2	609.6	658.1	706.5	755.0	790.7	826.5	862.2	897.9	933.7
102.5°	495.2	542.6	590.0	637.3	684.7	732.1	767.1	802.2	837.2	872.3	907.3
105°	473.6	520.2	566.8	613.4	660.0	706.6	741.1	775.5	810.0	844.4	878.9
107.5°	453.5	498.9	544.2	589.5	634.9	680.2	714.1	747.9	781.8	815.7	849.5
110°	431.2	475.4	519.5	563.7	607.8	652.0	685.1	718.2	751.2	784.3	817.4



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	408.4	451.5	494.6	537.6	580.7	623.8	656.0	688.2	720.4	752.6	784.8
115°	384.7	426.7	468.7	510.7	552.7	594.7	626.0	657.3	688.7	720.0	751.3
117.5°	359.9	400.5	441.1	481.8	522.4	563.0	593.4	623.9	654.3	684.8	715.2
120°	335.8	375.1	414.3	453.6	492.8	532.1	561.3	590.5	619.6	648.8	678.0
122.5°	311.1	348.7	386.4	424.1	461.8	499.5	527.6	555.7	583.8	611.9	640.0
125°	284.7	320.6	356.5	392.5	428.4	464.3	491.2	518.1	545.1	572.0	598.9
127.5°	254.4	288.3	322.2	356.0	389.9	423.8	450.1	476.5	502.8	529.1	555.5
130°	221.6	252.4	283.1	313.8	344.6	375.3	401.8	428.4	454.9	481.4	508.0
132.5°	190.1	217.8	245.5	273.2	300.9	328.6	354.9	381.3	407.6	433.9	460.3
135°	161.2	186.0	210.9	235.8	260.6	285.5	310.9	336.4	361.8	387.3	412.7
137.5°	135.7	157.7	179.7	201.8	223.8	245.8	269.4	293.0	316.6	340.2	363.7
140°	110.6	129.9	149.2	168.4	187.7	207.0	228.2	249.5	270.7	292.0	313.2
142.5°	90.5	106.9	123.4	139.8	156.3	172.7	191.5	210.3	229.1	247.9	266.6
145°	71.5	85.4	99.3	113.2	127.1	141.0	157.2	173.5	189.7	206.0	222.2
147.5°	56.1	67.3	78.4	89.6	100.7	111.9	125.8	139.7	153.6	167.5	181.4
150°	42.0	50.5	59.0	67.6	76.1	84.6	96.1	107.7	119.2	130.8	142.3
152.5°	30.9	37.0	43.2	49.4	55.5	61.7	71.1	80.5	89.9	99.3	108.7
155°	20.0	24.0	27.9	31.8	35.7	39.6	47.1	54.7	62.2	69.8	77.3
157.5°	11.6	13.9	16.1	18.4	20.6	22.9	28.6	34.3	39.9	45.6	51.3
160°	6.5	7.6	8.8	10.0	11.1	12.3	15.9	19.5	23.2	26.8	30.4
162.5°	3.3	3.8	4.4	5.0	5.6	6.2	8.0	9.7	11.5	13.2	15.0
165°	0.8	1.0	1.2	1.4	1.6	1.8	2.5	3.2	3.8	4.5	5.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2	791.2
2.5°	814.6	815.0	815.4	815.8	814.9	814.0	813.2	812.3	811.4	810.5	809.7
5°	834.1	835.0	836.0	837.0	836.9	836.8	836.7	836.6	836.5	836.4	836.3
7.5°	853.4	855.3	857.1	859.0	859.2	859.4	859.6	859.8	860.0	860.2	860.4
10°	874.3	877.4	880.6	883.7	884.1	884.5	884.9	885.3	885.6	886.0	886.4
12.5°	894.3	898.7	903.1	907.5	908.7	909.8	911.0	912.2	913.3	914.5	915.7
15°	916.6	922.6	928.7	934.8	937.0	939.1	941.3	943.4	945.6	947.7	949.9
17.5°	945.0	953.4	961.7	970.0	972.6	975.3	977.9	980.6	983.2	985.9	988.5
20°	972.1	982.2	992.4	1002.6	1005.8	1009.1	1012.3	1015.5	1018.8	1022.0	1025.2
22.5°	998.8	1010.3	1021.9	1033.4	1037.3	1041.2	1045.2	1049.1	1053.0	1056.9	1060.9
25°	1025.8	1039.0	1052.1	1065.2	1069.6	1074.0	1078.4	1082.8	1087.2	1091.6	1096.0
27.5°	1051.0	1065.4	1079.8	1094.2	1099.3	1104.4	1109.5	1114.6	1119.7	1124.8	1129.9
30°	1074.8	1090.7	1106.5	1122.4	1128.2	1134.0	1139.7	1145.5	1151.3	1157.1	1162.8
32.5°	1097.4	1114.9	1132.3	1149.7	1156.5	1163.2	1170.0	1176.7	1183.5	1190.2	1197.0
35°	1120.6	1139.7	1158.8	1177.9	1185.3	1192.8	1200.2	1207.7	1215.1	1222.6	1230.0
37.5°	1143.0	1163.7	1184.5	1205.2	1213.4	1221.7	1229.9	1238.1	1246.4	1254.6	1262.8
40°	1164.4	1186.9	1209.3	1231.7	1240.8	1249.9	1259.0	1268.1	1277.2	1286.3	1295.4
42.5°	1184.1	1208.1	1232.2	1256.3	1266.4	1276.5	1286.6	1296.7	1306.7	1316.8	1326.9
45°	1204.1	1230.0	1256.0	1281.9	1292.9	1303.8	1314.8	1325.8	1336.7	1347.7	1358.7
47.5°	1223.1	1251.2	1279.3	1307.4	1319.3	1331.1	1343.0	1354.8	1366.7	1378.5	1390.4
50°	1240.8	1270.9	1301.1	1331.2	1344.0	1356.8	1369.7	1382.5	1395.3	1408.1	1421.0
52.5°	1257.5	1290.0	1322.5	1355.0	1368.6	1382.2	1395.8	1409.4	1423.1	1436.7	1450.3
55°	1271.0	1305.5	1339.9	1374.4	1389.0	1403.6	1418.2	1432.8	1447.3	1461.9	1476.5
57.5°	1284.5	1321.0	1357.4	1393.8	1409.0	1424.1	1439.3	1454.5	1469.6	1484.8	1500.0
60°	1294.3	1332.4	1370.6	1408.8	1424.6	1440.3	1456.1	1471.8	1487.6	1503.3	1519.1
62.5°	1301.3	1340.9	1380.6	1420.2	1436.4	1452.5	1468.7	1484.8	1501.0	1517.1	1533.3
65°	1304.8	1345.7	1386.5	1427.3	1443.7	1460.2	1476.6	1493.1	1509.5	1526.0	1542.4
67.5°	1304.8	1346.5	1388.2	1429.9	1446.4	1463.0	1479.5	1496.1	1512.6	1529.2	1545.7
70°	1300.7	1343.1	1385.6	1428.1	1444.6	1461.2	1477.7	1494.3	1510.8	1527.4	1543.9
72.5°	1289.3	1332.3	1375.4	1418.5	1435.1	1451.8	1468.4	1485.0	1501.7	1518.3	1534.9
75°	1273.4	1316.8	1360.1	1403.5	1419.9	1436.4	1452.8	1469.3	1485.7	1502.2	1518.6
77.5°	1249.3	1292.5	1335.6	1378.8	1395.1	1411.5	1427.8	1444.2	1460.5	1476.9	1493.2
80°	1220.5	1263.3	1306.1	1348.9	1365.1	1381.4	1397.6	1413.9	1430.1	1446.4	1462.6
82.5°	1190.6	1233.0	1275.5	1318.0	1333.7	1349.3	1365.0	1380.7	1396.3	1412.0	1427.7
85°	1154.2	1195.6	1237.0	1278.4	1294.2	1309.9	1325.7	1341.4	1357.2	1372.9	1388.7
87.5°	1119.8	1160.7	1201.5	1242.3	1257.5	1272.6	1287.8	1303.0	1318.1	1333.3	1348.5
90°	1082.2	1121.7	1161.3	1200.8	1216.2	1231.6	1246.9	1262.3	1277.7	1293.1	1308.4
92.5°	1052.8	1091.3	1129.7	1168.2	1183.2	1198.2	1213.1	1228.1	1243.1	1258.1	1273.0
95°	1027.3	1065.1	1103.0	1140.9	1154.9	1168.9	1182.9	1196.9	1210.9	1224.9	1238.9
97.5°	999.4	1036.3	1073.2	1110.1	1123.7	1137.3	1150.9	1164.5	1178.2	1191.8	1205.4
100°	969.4	1005.1	1040.9	1076.6	1090.2	1103.8	1117.4	1131.0	1144.7	1158.3	1171.9
102.5°	942.4	977.4	1012.5	1047.5	1060.8	1074.1	1087.5	1100.8	1114.1	1127.4	1140.8
105°	913.3	947.8	982.2	1016.7	1029.7	1042.7	1055.8	1068.8	1081.8	1094.8	1107.9
107.5°	883.4	917.3	951.1	985.0	997.8	1010.6	1023.5	1036.3	1049.1	1061.9	1074.8
110°	850.5	883.5	916.6	949.7	962.2	974.8	987.3	999.8	1012.4	1024.9	1037.4



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	817.0	849.2	881.4	913.6	925.8	938.1	950.3	962.6	974.8	987.1	999.3
115°	782.6	814.0	845.3	876.6	888.3	900.1	911.8	923.6	935.3	947.1	958.8
117.5°	745.7	776.1	806.6	837.0	848.4	859.7	871.1	882.4	893.8	905.1	916.5
120°	707.2	736.3	765.5	794.7	805.9	817.0	828.2	839.3	850.5	861.6	872.8
122.5°	668.1	696.2	724.3	752.4	763.2	773.9	784.7	795.5	806.2	817.0	827.8
125°	625.8	652.8	679.7	706.6	716.9	727.2	737.4	747.7	758.0	768.3	778.5
127.5°	581.8	608.1	634.5	660.8	670.5	680.2	689.9	699.6	709.2	718.9	728.6
130°	534.5	561.0	587.6	614.1	623.3	632.5	641.7	650.9	660.1	669.3	678.5
132.5°	486.6	512.9	539.3	565.6	575.0	584.4	593.8	603.2	612.6	622.0	631.4
135°	438.2	463.6	489.1	514.5	523.5	532.5	541.5	550.5	559.6	568.6	577.6
137.5°	387.3	410.9	434.5	458.1	467.2	476.3	485.4	494.5	503.7	512.8	521.9
140°	334.5	355.7	377.0	398.2	407.6	417.0	426.4	435.8	445.2	454.6	464.0
142.5°	285.4	304.2	323.0	341.8	351.4	361.0	370.6	380.2	389.8	399.4	409.0
145°	238.5	254.7	271.0	287.2	297.2	307.2	317.2	327.2	337.1	347.1	357.1
147.5°	195.3	209.2	223.1	237.0	247.0	257.0	267.0	277.0	286.9	296.9	306.9
150°	153.9	165.4	177.0	188.5	198.5	208.5	218.5	228.5	238.4	248.4	258.4
152.5°	118.1	127.5	136.9	146.3	155.7	165.1	174.5	183.9	193.2	202.6	212.0
155°	84.9	92.4	100.0	107.5	115.8	124.1	132.5	140.8	149.1	157.4	165.8
157.5°	57.0	62.6	68.3	74.0	81.1	88.3	95.4	102.6	109.7	116.9	124.0
160°	34.0	37.7	41.3	44.9	50.7	56.5	62.2	68.0	73.8	79.6	85.3
162.5°	16.7	18.5	20.2	22.0	25.9	29.8	33.8	37.7	41.6	45.5	49.5
165°	5.9	6.5	7.2	7.9	10.3	12.6	15.0	17.3	19.7	22.0	24.4
167.5°	1.2	1.4	1.6	1.8	2.7	3.6	4.4	5.3	6.2	7.1	7.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	791.2	791.2
2.5°	808.8	807.9
5°	836.2	836.1
7.5°	860.6	860.8
10°	886.8	887.2
12.5°	916.8	918.0
15°	952.0	954.2
17.5°	991.2	993.8
20°	1028.5	1031.7
22.5°	1064.8	1068.7
25°	1100.4	1104.8
27.5°	1135.0	1140.1
30°	1168.6	1174.4
32.5°	1203.7	1210.5
35°	1237.5	1244.9
37.5°	1271.1	1279.3
40°	1304.5	1313.6
42.5°	1337.0	1347.1
45°	1369.6	1380.6
47.5°	1402.2	1414.1
50°	1433.8	1446.6
52.5°	1463.9	1477.5
55°	1491.1	1505.7
57.5°	1515.1	1530.3
60°	1534.8	1550.6
62.5°	1549.4	1565.6
65°	1558.9	1575.3
67.5°	1562.3	1578.8
70°	1560.5	1577.0
72.5°	1551.6	1568.2
75°	1535.1	1551.5
77.5°	1509.6	1525.9
80°	1478.9	1495.1
82.5°	1443.3	1459.0
85°	1404.4	1420.2
87.5°	1363.6	1378.8
90°	1323.8	1339.2
92.5°	1288.0	1303.0
95°	1252.9	1266.9
97.5°	1219.0	1232.6
100°	1185.5	1199.1
102.5°	1154.1	1167.4
105°	1120.9	1133.9
107.5°	1087.6	1100.4
110°	1050.0	1062.5



TEST NUMBER: P201357

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1011.6	1023.8
115°	970.6	982.3
117.5°	927.8	939.2
120°	883.9	895.1
122.5°	838.5	849.3
125°	788.8	799.1
127.5°	738.3	748.0
130°	687.7	696.9
132.5°	640.8	650.2
135°	586.6	595.6
137.5°	531.0	540.1
140°	473.4	482.8
142.5°	418.6	428.2
145°	367.1	377.1
147.5°	316.9	326.9
150°	268.4	278.4
152.5°	221.4	230.8
155°	174.1	182.4
157.5°	131.2	138.3
160°	91.1	96.9
162.5°	53.4	57.3
165°	26.7	29.1
167.5°	8.8	9.7
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)