

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: P201360

Luminaire Tested: **4LBLED-LD4-8-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201360
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-LD4-8-ASYMW-UNV-L835-CD2-U
Description: 4 ft. Low Bay Linear, 8000 lm, Wht Asym lens, 3.5K
Light Source: (308) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
OT50W0900CC, OT30W0500CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8078.3 lumens
Efficiency: N/A
Efficacy: 125.8 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

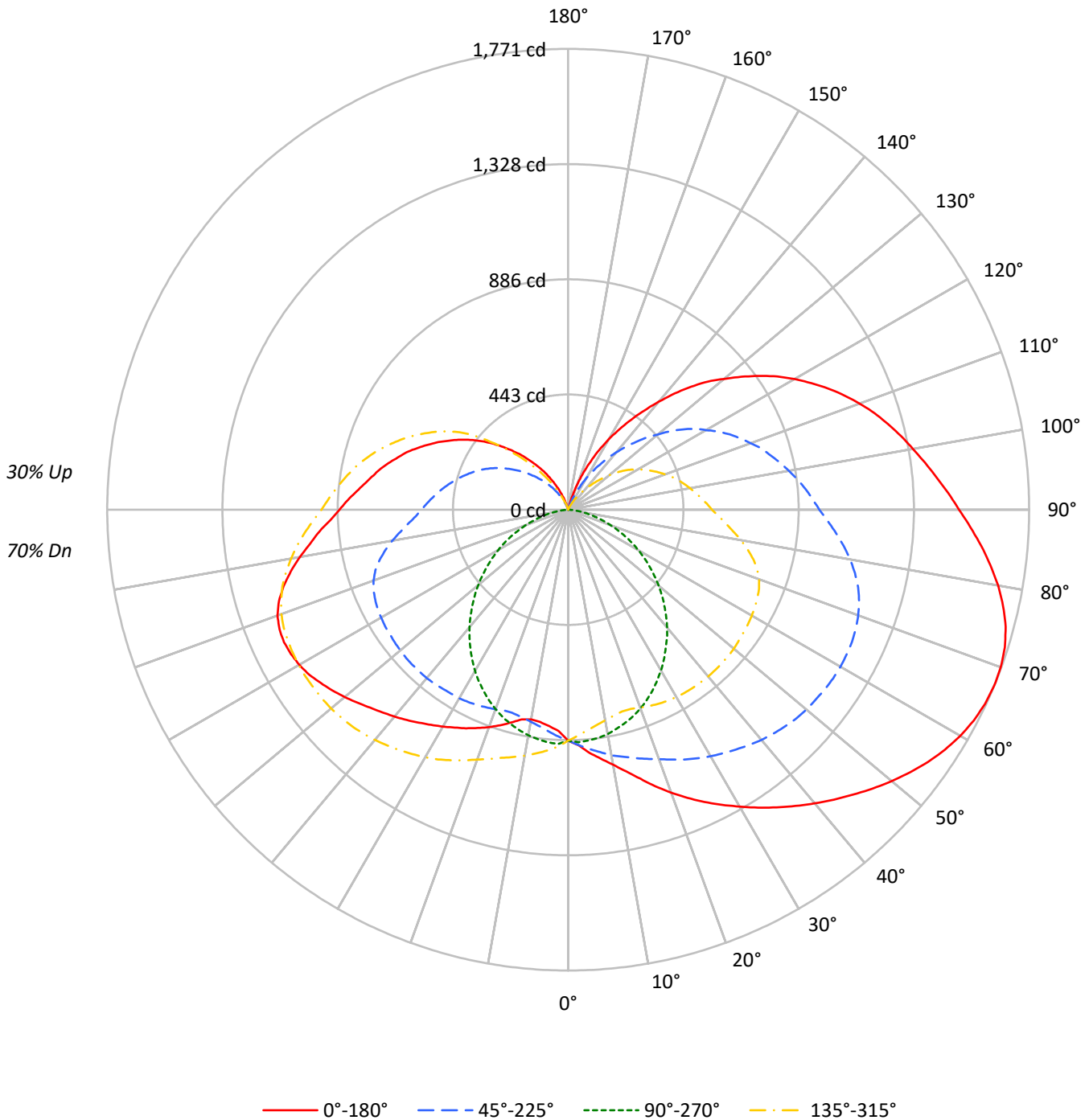
Input Watts (W): 64.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70				
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48				
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36				
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28				
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23				
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19				
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16				
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14				
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12				
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10				
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14299	14299	14299	14299
5°	13679	14336	12179	14447
10°	13350	14195	10977	14274
15°	13386	13949	10592	14031
20°	13653	13670	10493	13719
25°	13936	13311	10425	13345
30°	14257	12887	10418	12923
35°	14672	12379	10497	12417
40°	15154	11910	10672	11890
45°	15714	11323	10921	11281
50°	16372	10707	11307	10660
55°	17073	10000	11739	9922
60°	17751	9203	12174	9174
65°	18351	8270	12511	8270
70°	18845	7128	12665	7086
75°	19180	5772	12471	5772
80°	19297	4035	12042	4178
85°	19329	1832	11643	2180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.0
10°-20°	255.4	3.2
20°-30°	430.1	5.3
30°-40°	596.9	7.4
40°-50°	746.6	9.2
50°-60°	867.4	10.7
60°-70°	938.6	11.6
70°-80°	923.6	11.4
80°-90°	819.6	10.1
90°-100°	708.1	8.8
100°-110°	597.2	7.4
110°-120°	467.9	5.8
120°-130°	328.7	4.1
130°-140°	194.4	2.4
140°-150°	89.6	1.1
150°-160°	26.9	0.3
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	770.3	9.5
0°-40°	1367.2	16.9
0°-60°	2981.2	36.9
0°-90°	5663.0	70.1
90°-120°	1773.2	22.0
90°-150°	2385.8	29.5
90°-180°	2415.0	29.9
0°-180°	8078.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	887	887	887	887	887	
5°	938	890	835	897	938	91
15°	1070	848	847	853	1070	306
25°	1239	767	927	769	1239	575
35°	1396	652	999	654	1396	879
45°	1548	523	1076	521	1548	1201
55°	1689	382	1161	379	1689	1513
65°	1767	241	1205	241	1767	1749
75°	1740	111	1131	111	1740	1833
85°	1593	16	960	19	1593	1318
90°	1502	0	878	1	1502	824
95°	1421	0	815	1	1421	1146
105°	1272	0	708	1	1272	1345
115°	1102	0	592	1	1102	1093
125°	896	0	468	1	896	805
135°	668	0	333	1	668	518
145°	423	0	203	1	423	269
155°	204	0	86	1	204	99
165°	33	0	4	2	33	13
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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	906.1	905.8	905.5	905.1	904.8	904.5	904.2	903.8	903.5	903.2	903.4
5°	937.8	936.7	935.6	934.5	933.4	932.3	931.2	930.1	929.0	927.9	927.3
7.5°	965.4	964.0	962.6	961.1	959.7	958.3	956.9	955.4	954.0	952.6	951.2
10°	995.1	993.1	991.1	989.2	987.2	985.2	983.2	981.3	979.3	977.3	975.2
12.5°	1029.6	1027.0	1024.3	1021.7	1019.1	1016.4	1013.8	1011.2	1008.5	1005.9	1002.2
15°	1070.2	1066.9	1063.6	1060.3	1057.0	1053.7	1050.4	1047.1	1043.8	1040.5	1034.7
17.5°	1114.6	1110.4	1106.3	1102.1	1097.9	1093.8	1089.6	1085.4	1081.3	1077.1	1069.0
20°	1157.1	1152.1	1147.0	1142.0	1136.9	1131.9	1126.8	1121.8	1116.7	1111.7	1101.5
22.5°	1198.6	1192.8	1187.0	1181.2	1175.4	1169.5	1163.7	1157.9	1152.1	1146.3	1134.4
25°	1239.1	1232.7	1226.4	1220.0	1213.6	1207.3	1200.9	1194.5	1188.2	1181.8	1168.2
27.5°	1278.7	1271.8	1264.9	1257.9	1251.0	1244.1	1237.2	1230.2	1223.3	1216.4	1200.9
30°	1317.2	1309.6	1302.0	1294.5	1286.9	1279.3	1271.7	1264.2	1256.6	1249.0	1231.8
32.5°	1357.7	1349.2	1340.8	1332.3	1323.9	1315.4	1307.0	1298.5	1290.1	1281.6	1262.5
35°	1396.3	1387.1	1377.8	1368.6	1359.4	1350.1	1340.9	1331.7	1322.4	1313.2	1292.2
37.5°	1434.8	1424.8	1414.8	1404.8	1394.8	1384.9	1374.9	1364.9	1354.9	1344.9	1322.2
40°	1473.3	1462.5	1451.8	1441.0	1430.3	1419.5	1408.8	1398.0	1387.3	1376.5	1351.9
42.5°	1510.9	1499.4	1487.8	1476.3	1464.8	1453.2	1441.7	1430.2	1418.6	1407.1	1380.4
45°	1548.4	1536.0	1523.6	1511.2	1498.8	1486.4	1474.0	1461.6	1449.2	1436.8	1408.0
47.5°	1586.0	1572.7	1559.4	1546.1	1532.8	1519.6	1506.3	1493.0	1479.7	1466.4	1435.4
50°	1622.5	1608.3	1594.2	1580.0	1565.9	1551.7	1537.6	1523.4	1509.3	1495.1	1461.7
52.5°	1657.1	1642.1	1627.0	1612.0	1596.9	1581.9	1566.8	1551.8	1536.7	1521.7	1485.8
55°	1688.7	1672.9	1657.1	1641.3	1625.5	1609.7	1593.9	1578.1	1562.3	1546.5	1508.4
57.5°	1716.4	1700.0	1683.7	1667.3	1651.0	1634.6	1618.3	1601.9	1585.6	1569.2	1528.9
60°	1739.1	1722.4	1705.7	1689.0	1672.3	1655.7	1639.0	1622.3	1605.6	1588.9	1546.5
62.5°	1755.9	1738.9	1721.9	1704.9	1687.9	1670.8	1653.8	1636.8	1619.8	1602.8	1558.7
65°	1766.8	1749.7	1732.6	1715.4	1698.3	1681.2	1664.1	1646.9	1629.8	1612.7	1567.1
67.5°	1770.8	1753.7	1736.5	1719.4	1702.3	1685.1	1668.0	1650.9	1633.7	1616.6	1569.8
70°	1768.8	1751.7	1734.5	1717.4	1700.3	1683.1	1666.0	1648.9	1631.7	1614.6	1567.0
72.5°	1758.9	1741.7	1724.4	1707.2	1690.0	1672.7	1655.5	1638.3	1621.0	1603.8	1555.8
75°	1740.1	1723.1	1706.1	1689.1	1672.1	1655.0	1638.0	1621.0	1604.0	1587.0	1538.8
77.5°	1711.5	1694.8	1678.1	1661.4	1644.7	1628.1	1611.4	1594.7	1578.0	1561.3	1513.2
80°	1676.9	1660.4	1644.0	1627.5	1611.0	1594.6	1578.1	1561.6	1545.2	1528.7	1481.0
82.5°	1636.4	1620.1	1603.9	1587.6	1571.4	1555.1	1538.9	1522.6	1506.4	1490.1	1443.1
85°	1592.9	1576.9	1560.8	1544.8	1528.8	1512.7	1496.7	1480.7	1464.6	1448.6	1402.4
87.5°	1546.5	1530.7	1514.9	1499.1	1483.3	1467.4	1451.6	1435.8	1420.0	1404.2	1359.1
90°	1502.0	1486.2	1470.4	1454.6	1438.8	1422.9	1407.1	1391.3	1375.5	1359.7	1315.8
92.5°	1461.5	1446.2	1431.0	1415.7	1400.4	1385.2	1369.9	1354.6	1339.4	1324.1	1281.4
95°	1421.0	1406.3	1391.6	1376.8	1362.1	1347.4	1332.7	1317.9	1303.2	1288.5	1247.0
97.5°	1382.4	1368.0	1353.6	1339.3	1324.9	1310.5	1296.1	1281.8	1267.4	1253.0	1212.5
100°	1344.9	1330.7	1316.6	1302.4	1288.2	1274.1	1259.9	1245.7	1231.6	1217.4	1177.8
102.5°	1309.3	1295.4	1281.4	1267.5	1253.5	1239.6	1225.6	1211.7	1197.7	1183.8	1144.9
105°	1271.7	1258.0	1244.3	1230.5	1216.8	1203.1	1189.4	1175.6	1161.9	1148.2	1110.1
107.5°	1234.2	1220.5	1206.8	1193.0	1179.3	1165.6	1151.9	1138.1	1124.4	1110.7	1073.9
110°	1191.7	1178.2	1164.7	1151.2	1137.7	1124.2	1110.7	1097.2	1083.7	1070.2	1034.3



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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°	1148.2	1135.5	1122.7	1110.0	1097.3	1084.5	1071.8	1059.1	1046.3	1033.6	998.2
115°	1101.8	1089.4	1077.0	1064.6	1052.2	1039.7	1027.3	1014.9	1002.5	990.1	956.2
117.5°	1053.4	1041.3	1029.2	1017.2	1005.1	993.0	980.9	968.9	956.8	944.7	912.0
120°	1004.0	992.2	980.5	968.7	957.0	945.2	933.5	921.7	910.0	898.2	866.4
122.5°	952.6	941.3	930.0	918.7	907.4	896.0	884.7	873.4	862.1	850.8	820.5
125°	896.2	885.7	875.1	864.6	854.1	843.5	833.0	822.5	811.9	801.4	772.2
127.5°	838.9	829.0	819.1	809.3	799.4	789.5	779.6	769.8	759.9	750.0	721.9
130°	781.6	772.3	762.9	753.6	744.3	734.9	725.6	716.3	706.9	697.6	669.9
132.5°	729.3	719.7	710.2	700.6	691.1	681.5	672.0	662.4	652.9	643.3	617.5
135°	668.0	659.0	650.0	641.0	632.0	623.0	614.0	605.0	596.0	587.0	562.6
137.5°	605.7	597.0	588.4	579.7	571.0	562.4	553.7	545.0	536.4	527.7	505.4
140°	541.5	533.8	526.1	518.4	510.7	503.1	495.4	487.7	480.0	472.3	451.8
142.5°	480.2	473.4	466.6	459.8	453.0	446.2	439.4	432.6	425.8	419.0	400.2
145°	422.9	416.9	410.8	404.8	398.8	392.7	386.7	380.7	374.6	368.6	351.0
147.5°	366.6	361.1	355.6	350.1	344.6	339.2	333.7	328.2	322.7	317.2	301.4
150°	312.3	307.5	302.6	297.8	293.0	288.1	283.3	278.5	273.6	268.8	254.5
152.5°	258.9	254.2	249.5	244.7	240.0	235.3	230.6	225.8	221.1	216.4	204.2
155°	204.5	200.7	196.8	193.0	189.2	185.3	181.5	177.7	173.8	170.0	159.5
157.5°	155.1	151.9	148.7	145.6	142.4	139.2	136.0	132.9	129.7	126.5	117.6
160°	108.7	106.1	103.4	100.8	98.2	95.5	92.9	90.3	87.6	85.0	78.4
162.5°	64.2	62.4	60.7	58.9	57.2	55.4	53.7	51.9	50.2	48.4	44.3
165°	32.6	31.5	30.4	29.3	28.2	27.1	26.0	24.9	23.8	22.7	20.6
167.5°	10.9	10.5	10.0	9.6	9.1	8.7	8.2	7.8	7.3	6.9	6.1
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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	903.6	903.8	904.0	904.3	904.5	904.7	904.9	905.1	903.5	901.8	900.2
5°	926.8	926.2	925.7	925.1	924.6	924.0	923.5	922.9	920.2	917.4	914.7
7.5°	949.7	948.3	946.9	945.4	944.0	942.6	941.1	939.7	935.5	931.4	927.2
10°	973.1	971.0	968.9	966.9	964.8	962.7	960.6	958.5	952.5	946.4	940.4
12.5°	998.4	994.7	991.0	987.2	983.5	979.8	976.0	972.3	964.7	957.2	949.6
15°	1028.9	1023.0	1017.2	1011.4	1005.6	999.7	993.9	988.1	978.7	969.2	959.8
17.5°	1060.9	1052.7	1044.6	1036.5	1028.4	1020.2	1012.1	1004.0	992.4	980.7	969.1
20°	1091.3	1081.1	1070.9	1060.6	1050.4	1040.2	1030.0	1019.8	1005.7	991.7	977.6
22.5°	1122.6	1110.7	1098.8	1087.0	1075.1	1063.2	1051.4	1039.5	1022.5	1005.5	988.5
25°	1154.6	1141.0	1127.4	1113.7	1100.1	1086.5	1072.9	1059.3	1039.1	1018.9	998.7
27.5°	1185.4	1170.0	1154.5	1139.0	1123.5	1108.1	1092.6	1077.1	1053.9	1030.8	1007.6
30°	1214.5	1197.3	1180.1	1162.8	1145.6	1128.4	1111.1	1093.9	1067.9	1041.9	1015.8
32.5°	1243.4	1224.3	1205.2	1186.1	1167.0	1147.9	1128.8	1109.7	1080.7	1051.7	1022.7
35°	1271.3	1250.3	1229.3	1208.4	1187.4	1166.4	1145.5	1124.5	1093.0	1061.5	1030.0
37.5°	1299.4	1276.7	1254.0	1231.2	1208.5	1185.8	1163.0	1140.3	1106.2	1072.0	1037.9
40°	1327.3	1302.7	1278.1	1253.5	1228.9	1204.3	1179.7	1155.1	1118.4	1081.8	1045.1
42.5°	1353.7	1327.1	1300.4	1273.7	1247.0	1220.4	1193.7	1167.0	1127.9	1088.8	1049.7
45°	1379.3	1350.5	1321.7	1293.0	1264.2	1235.4	1206.7	1177.9	1136.4	1094.9	1053.4
47.5°	1404.5	1373.5	1342.6	1311.6	1280.7	1249.7	1218.8	1187.8	1144.0	1100.2	1056.4
50°	1428.3	1395.0	1361.6	1328.2	1294.8	1261.5	1228.1	1194.7	1148.7	1102.7	1056.7
52.5°	1449.9	1414.0	1378.1	1342.2	1306.3	1270.4	1234.5	1198.6	1150.6	1102.6	1054.7
55°	1470.3	1432.2	1394.1	1356.0	1317.9	1279.8	1241.7	1203.6	1153.4	1103.2	1053.1
57.5°	1488.6	1448.3	1408.0	1367.7	1327.4	1287.1	1246.8	1206.5	1154.1	1101.8	1049.4
60°	1504.1	1461.8	1419.4	1377.0	1334.6	1292.3	1249.9	1207.5	1153.3	1099.0	1044.8
62.5°	1514.5	1470.4	1426.2	1382.1	1337.9	1293.8	1249.6	1205.5	1149.5	1093.5	1037.5
65°	1521.6	1476.0	1430.4	1384.9	1339.3	1293.7	1248.2	1202.6	1144.7	1086.9	1029.0
67.5°	1523.1	1476.3	1429.5	1382.8	1336.0	1289.2	1242.5	1195.7	1136.3	1076.9	1017.5
70°	1519.3	1471.7	1424.0	1376.4	1328.7	1281.1	1233.4	1185.8	1125.1	1064.4	1003.6
72.5°	1507.8	1459.8	1411.8	1363.9	1315.9	1267.9	1219.9	1171.9	1110.2	1048.5	986.8
75°	1490.6	1442.4	1394.2	1346.0	1297.8	1249.6	1201.4	1153.2	1090.8	1028.5	966.1
77.5°	1465.1	1417.0	1368.9	1320.9	1272.8	1224.7	1176.6	1128.5	1065.9	1003.3	940.7
80°	1433.4	1385.7	1338.1	1290.4	1242.8	1195.1	1147.5	1099.8	1037.7	975.5	913.4
82.5°	1396.1	1349.1	1302.1	1255.2	1208.2	1161.2	1114.2	1067.2	1005.7	944.2	882.7
85°	1356.2	1309.9	1263.7	1217.5	1171.3	1125.0	1078.8	1032.6	972.0	911.4	850.8
87.5°	1313.9	1268.8	1223.7	1178.5	1133.4	1088.3	1043.1	998.0	938.6	879.2	819.8
90°	1271.9	1227.9	1184.0	1140.1	1096.2	1052.2	1008.3	964.4	906.2	848.0	789.8
92.5°	1238.7	1196.0	1153.3	1110.5	1067.8	1025.1	982.4	939.7	882.6	825.5	768.4
95°	1205.5	1164.0	1122.5	1081.0	1039.5	998.0	956.5	915.0	858.8	802.6	746.4
97.5°	1172.0	1131.4	1090.9	1050.4	1009.9	969.3	928.8	888.3	833.2	778.1	723.0
100°	1138.1	1098.5	1058.9	1019.2	979.6	940.0	900.3	860.7	806.7	752.7	698.6
102.5°	1106.1	1067.2	1028.3	989.5	950.6	911.7	872.9	834.0	781.0	727.9	674.9
105°	1072.0	1033.9	995.8	957.7	919.6	881.5	843.4	805.3	753.3	701.2	649.2
107.5°	1037.1	1000.3	963.5	926.8	890.0	853.2	816.4	779.6	728.2	676.8	625.5
110°	998.4	962.5	926.6	890.6	854.7	818.8	782.9	747.0	697.0	647.1	597.1



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	962.9	927.5	892.2	856.8	821.5	786.1	750.8	715.4	666.7	617.9	569.2
115°	922.3	888.3	854.4	820.5	786.6	752.6	718.7	684.8	637.1	589.5	541.8
117.5°	879.3	846.5	813.8	781.1	748.4	715.6	682.9	650.2	603.6	557.1	510.5
120°	834.5	802.7	770.9	739.0	707.2	675.4	643.5	611.7	567.1	522.5	478.0
122.5°	790.2	759.9	729.6	699.3	669.0	638.7	608.4	578.1	534.9	491.8	448.6
125°	743.0	713.8	684.6	655.3	626.1	596.9	567.7	538.5	497.4	456.4	415.3
127.5°	693.8	665.7	637.6	609.4	581.3	553.2	525.1	497.0	458.4	419.7	381.1
130°	642.3	614.6	586.9	559.3	531.6	503.9	476.3	448.6	413.1	377.7	342.2
132.5°	591.7	565.9	540.1	514.3	488.5	462.7	436.9	411.1	377.7	344.3	311.0
135°	538.2	513.9	489.5	465.1	440.7	416.4	392.0	367.6	337.0	306.3	275.7
137.5°	483.1	460.8	438.5	416.3	394.0	371.7	349.4	327.1	299.0	270.9	242.8
140°	431.3	410.7	390.2	369.7	349.2	328.6	308.1	287.6	261.9	236.2	210.5
142.5°	381.4	362.7	343.9	325.1	306.3	287.6	268.8	250.0	226.4	202.8	179.2
145°	333.5	315.9	298.3	280.8	263.2	245.6	228.1	210.5	190.0	169.4	148.9
147.5°	285.6	269.8	254.0	238.1	222.3	206.5	190.7	174.9	157.3	139.8	122.2
150°	240.2	226.0	211.7	197.4	183.1	168.9	154.6	140.3	126.0	111.8	97.5
152.5°	192.0	179.8	167.6	155.5	143.3	131.1	118.9	106.7	95.6	84.5	73.4
155°	148.9	138.4	127.8	117.3	106.7	96.2	85.6	75.1	67.1	59.1	51.1
157.5°	108.7	99.8	90.9	82.0	73.1	64.2	55.3	46.4	41.2	36.1	30.9
160°	71.8	65.2	58.6	52.1	45.5	38.9	32.3	25.7	22.8	20.0	17.1
162.5°	40.3	36.2	32.2	28.1	24.1	20.0	16.0	11.9	10.6	9.3	7.9
165°	18.5	16.5	14.4	12.3	10.2	8.2	6.1	4.0	3.6	3.1	2.7
167.5°	5.4	4.6	3.8	3.1	2.3	1.5	0.8	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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	898.5	896.9	895.2	893.6	891.9	890.3	890.7	891.2	891.6	892.1	892.5
5°	911.9	909.2	906.4	903.7	900.9	898.2	897.3	896.4	895.6	894.7	893.8
7.5°	923.0	918.9	914.7	910.5	906.4	902.2	900.2	898.2	896.3	894.3	892.3
10°	934.4	928.3	922.3	916.3	910.2	904.2	901.0	897.8	894.6	891.4	888.3
12.5°	942.0	934.5	926.9	919.3	911.8	904.2	899.5	894.8	890.0	885.3	880.6
15°	950.4	940.9	931.5	922.1	912.6	903.2	897.0	890.9	884.7	878.6	872.4
17.5°	957.4	945.8	934.1	922.5	910.8	899.2	891.7	884.3	876.8	869.3	861.9
20°	963.6	949.5	935.5	921.4	907.4	893.3	884.3	875.3	866.3	857.3	848.3
22.5°	971.5	954.4	937.4	920.4	903.4	886.4	875.7	865.1	854.4	843.8	833.1
25°	978.5	958.3	938.1	917.9	897.7	877.5	865.2	852.9	840.6	828.3	816.0
27.5°	984.4	961.3	938.1	914.9	891.8	868.6	854.3	840.0	825.8	811.5	797.2
30°	989.8	963.8	937.8	911.7	885.7	859.7	843.4	827.2	810.9	794.7	778.4
32.5°	993.7	964.8	935.8	906.8	877.8	848.8	830.5	812.1	793.8	775.5	757.1
35°	998.5	966.9	935.4	903.9	872.4	840.9	819.9	799.0	778.0	757.0	736.1
37.5°	1003.7	969.6	935.4	901.3	867.1	833.0	809.7	786.4	763.2	739.9	716.6
40°	1008.4	971.8	935.1	898.4	861.8	825.1	799.1	773.1	747.0	721.0	695.0
42.5°	1010.6	971.6	932.5	893.4	854.3	815.2	786.5	757.9	729.2	700.6	671.9
45°	1011.9	970.4	928.9	887.4	845.9	804.4	773.1	741.8	710.5	679.2	647.9
47.5°	1012.6	968.7	924.9	881.1	837.3	793.5	759.6	725.6	691.7	657.8	623.8
50°	1010.7	964.6	918.6	872.6	826.6	780.6	744.3	707.9	671.6	635.3	598.9
52.5°	1006.7	958.7	910.7	862.8	814.8	766.8	727.9	689.1	650.2	611.3	572.5
55°	1002.9	952.7	902.5	852.4	802.2	752.0	710.9	669.9	628.8	587.7	546.7
57.5°	997.0	944.7	892.3	839.9	787.6	735.2	692.0	648.9	605.7	562.6	519.4
60°	990.6	936.3	882.1	827.9	773.6	719.4	674.1	628.7	583.4	538.0	492.7
62.5°	981.5	925.6	869.6	813.6	757.6	701.6	654.4	607.2	560.0	512.8	465.5
65°	971.1	913.3	855.4	797.5	739.7	681.8	632.8	583.9	534.9	485.9	437.0
67.5°	958.1	898.7	839.3	779.9	720.5	661.1	610.5	559.9	509.2	458.6	408.0
70°	942.9	882.2	821.5	760.7	700.0	639.3	587.5	535.7	483.8	432.0	380.2
72.5°	925.1	863.4	801.7	740.0	678.3	616.6	563.8	511.0	458.2	405.4	352.5
75°	903.7	841.4	779.0	716.6	654.3	591.9	538.4	485.0	431.5	378.0	324.6
77.5°	878.1	815.6	753.0	690.4	627.8	565.2	511.5	457.8	404.1	350.4	296.8
80°	851.2	789.1	726.9	664.8	602.6	540.5	486.7	432.9	379.1	325.3	271.5
82.5°	821.2	759.8	698.3	636.8	575.3	513.8	460.4	407.1	353.7	300.4	247.0
85°	790.2	729.6	669.0	608.4	547.8	487.2	434.8	382.4	330.1	277.7	225.3
87.5°	760.4	701.0	641.6	582.2	522.8	463.4	412.1	360.9	309.6	258.3	207.1
90°	731.6	673.5	615.3	557.1	498.9	440.7	391.7	342.8	293.8	244.8	195.9
92.5°	711.3	654.3	597.2	540.1	483.0	425.9	378.6	331.3	283.9	236.6	189.3
95°	690.2	633.9	577.7	521.5	465.3	409.1	363.6	318.2	272.7	227.3	181.8
97.5°	667.9	612.7	557.6	502.5	447.4	392.3	348.7	305.1	261.5	217.9	174.4
100°	644.6	590.6	536.6	482.5	428.5	374.5	332.9	291.3	249.7	208.1	166.4
102.5°	621.9	568.8	515.8	462.8	409.7	356.7	317.1	277.4	237.8	198.2	158.5
105°	597.2	545.1	493.1	441.1	389.0	337.0	299.6	262.1	224.7	187.2	149.8
107.5°	574.1	522.7	471.3	420.0	368.6	317.2	282.0	246.7	211.5	176.2	141.0
110°	547.2	497.2	447.3	397.3	347.4	297.4	264.4	231.3	198.3	165.2	132.2



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	520.4	471.7	422.9	374.2	325.4	276.7	246.0	215.2	184.5	153.7	123.0
115°	494.2	446.5	398.9	351.2	303.6	255.9	227.5	199.0	170.6	142.2	113.7
117.5°	464.0	417.4	370.9	324.3	277.8	231.2	205.5	179.8	154.1	128.4	102.8
120°	433.4	388.8	344.2	299.7	255.1	210.5	187.1	163.7	140.3	116.9	93.6
122.5°	405.5	362.3	319.2	276.0	232.9	189.7	168.6	147.5	126.5	105.4	84.3
125°	374.3	333.2	292.2	251.1	210.1	169.0	150.2	131.4	112.7	93.9	75.1
127.5°	342.4	303.8	265.1	226.5	187.8	149.2	132.6	116.0	99.5	82.9	66.3
130°	306.7	271.3	235.8	200.3	164.9	129.4	115.0	100.6	86.3	71.9	57.5
132.5°	277.6	244.2	210.8	177.5	144.1	110.7	98.4	86.1	73.8	61.5	49.2
135°	245.1	214.4	183.8	153.2	122.5	91.9	81.7	71.5	61.3	51.1	40.8
137.5°	214.7	186.5	158.4	130.3	102.2	74.1	65.9	57.6	49.4	41.2	32.9
140°	184.8	159.1	133.4	107.7	82.0	56.3	50.0	43.8	37.5	31.3	25.0
142.5°	155.6	131.9	108.3	84.7	61.1	37.5	33.3	29.2	25.0	20.8	16.7
145°	128.4	107.8	87.3	66.8	46.2	25.7	22.8	20.0	17.1	14.3	11.4
147.5°	104.6	87.1	69.5	51.9	34.4	16.8	14.9	13.1	11.2	9.3	7.5
150°	83.2	69.0	54.7	40.4	26.2	11.9	10.6	9.3	7.9	6.6	5.3
152.5°	62.3	51.3	40.2	29.1	18.0	6.9	6.1	5.4	4.6	3.8	3.1
155°	43.1	35.0	27.0	19.0	11.0	3.0	2.7	2.3	2.0	1.7	1.3
157.5°	25.8	20.6	15.5	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	14.3	11.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	6.6	5.3	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.2	1.8	1.3	0.9	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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	893.0	893.4	893.9	894.3	892.1	889.9	887.7	885.5	883.3	881.1	878.9
5°	892.9	892.1	891.2	890.3	887.1	883.9	880.8	877.6	874.4	871.2	868.1
7.5°	890.3	888.4	886.4	884.4	880.3	876.3	872.2	868.1	864.1	860.0	855.9
10°	885.1	881.9	878.7	875.5	870.8	866.1	861.3	856.6	851.9	847.2	842.4
12.5°	875.9	871.1	866.4	861.7	856.8	851.8	846.9	841.9	837.0	832.0	827.1
15°	866.3	860.1	854.0	847.8	842.4	837.0	831.7	826.3	820.9	815.5	810.2
17.5°	854.4	846.9	839.5	832.0	826.4	820.8	815.2	809.6	804.0	798.4	792.8
20°	839.3	830.3	821.3	812.3	807.0	801.7	796.5	791.2	785.9	780.6	775.4
22.5°	822.5	811.8	801.2	790.5	785.6	780.6	775.7	770.8	765.8	760.9	756.0
25°	803.7	791.4	779.1	766.8	762.5	758.2	754.0	749.7	745.4	741.1	736.9
27.5°	782.9	768.7	754.4	740.1	736.9	733.7	730.6	727.4	724.2	721.0	717.9
30°	762.2	745.9	729.7	713.4	711.5	709.7	707.8	705.9	704.1	702.2	700.3
32.5°	738.8	720.5	702.1	683.8	683.8	683.8	683.8	683.8	683.8	683.8	683.8
35°	715.1	694.1	673.2	652.2	654.3	656.4	658.5	660.6	662.6	664.7	666.8
37.5°	693.3	670.1	646.8	623.5	627.5	631.4	635.4	639.3	643.3	647.2	651.2
40°	669.0	642.9	616.9	590.9	596.8	602.8	608.7	614.6	620.6	626.5	632.4
42.5°	643.3	614.6	586.0	557.3	565.3	573.3	581.4	589.4	597.4	605.4	613.5
45°	616.6	585.3	554.0	522.7	532.8	542.9	553.0	563.1	573.2	583.3	593.4
47.5°	589.9	556.0	522.0	488.1	500.3	512.5	524.7	536.9	549.0	561.2	573.4
50°	562.6	526.3	489.9	453.6	467.8	481.9	496.1	510.2	524.4	538.5	552.7
52.5°	533.6	494.7	455.9	417.0	433.2	449.5	465.7	482.0	498.2	514.5	530.7
55°	505.6	464.5	423.5	382.4	400.5	418.6	436.8	454.9	473.0	491.1	509.3
57.5°	476.3	433.1	390.0	346.8	366.9	387.0	407.1	427.2	447.3	467.4	487.5
60°	447.3	402.0	356.6	311.3	333.0	354.8	376.5	398.2	420.0	441.7	463.4
62.5°	418.3	371.1	323.9	276.7	300.1	323.5	346.9	370.3	393.6	417.0	440.4
65°	388.0	339.0	290.1	241.1	266.1	291.2	316.2	341.2	366.3	391.3	416.3
67.5°	357.4	306.7	256.1	205.5	232.1	258.7	285.2	311.8	338.4	365.0	391.5
70°	328.4	276.5	224.7	172.9	200.6	228.2	255.9	283.6	311.2	338.9	366.6
72.5°	299.7	246.9	194.1	141.3	169.8	198.4	226.9	255.5	284.0	312.6	341.1
75°	271.1	217.6	164.2	110.7	140.0	169.3	198.6	227.9	257.3	286.6	315.9
77.5°	243.1	189.4	135.7	82.0	111.5	141.1	170.6	200.1	229.7	259.2	288.7
80°	217.7	163.9	110.1	56.3	86.1	115.8	145.6	175.3	205.1	234.8	264.6
82.5°	193.7	140.3	87.0	33.6	63.1	92.7	122.2	151.7	181.3	210.8	240.3
85°	172.9	120.6	68.2	15.8	44.9	74.0	103.1	132.2	161.3	190.4	219.5
87.5°	155.8	104.5	53.3	2.0	30.4	58.9	87.3	115.7	144.2	172.6	201.0
90°	146.9	97.9	49.0	0.0	27.0	54.0	81.0	108.0	135.1	162.1	189.1
92.5°	142.0	94.6	47.3	0.0	25.5	51.0	76.4	101.9	127.4	152.9	178.3
95°	136.4	90.9	45.5	0.0	24.2	48.3	72.5	96.6	120.8	144.9	169.1
97.5°	130.8	87.2	43.6	0.0	22.7	45.4	68.2	90.9	113.6	136.3	159.1
100°	124.8	83.2	41.6	0.0	21.4	42.8	64.2	85.6	107.1	128.5	149.9
102.5°	118.9	79.3	39.6	0.0	20.1	40.2	60.3	80.4	100.4	120.5	140.6
105°	112.3	74.9	37.4	0.0	18.7	37.3	56.0	74.7	93.3	112.0	130.7
107.5°	105.7	70.5	35.2	0.0	17.2	34.5	51.7	68.9	86.2	103.4	120.6
110°	99.1	66.1	33.0	0.0	15.9	31.8	47.8	63.7	79.6	95.5	111.5



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	92.2	61.5	30.7	0.0	14.5	29.0	43.5	58.0	72.4	86.9	101.4
115°	85.3	56.9	28.4	0.0	13.1	26.1	39.2	52.3	65.3	78.4	91.5
117.5°	77.1	51.4	25.7	0.0	11.6	23.3	34.9	46.5	58.2	69.8	81.4
120°	70.2	46.8	23.4	0.0	10.2	20.4	30.6	40.8	51.1	61.3	71.5
122.5°	63.2	42.2	21.1	0.0	9.0	18.0	27.0	36.0	45.0	54.0	63.0
125°	56.3	37.6	18.8	0.0	7.6	15.2	22.7	30.3	37.9	45.5	53.0
127.5°	49.7	33.2	16.6	0.0	6.1	12.3	18.4	24.6	30.7	36.9	43.0
130°	43.1	28.8	14.4	0.0	4.8	9.7	14.5	19.3	24.2	29.0	33.8
132.5°	36.9	24.6	12.3	0.0	3.6	7.2	10.9	14.5	18.1	21.7	25.4
135°	30.6	20.4	10.2	0.0	2.5	5.0	7.6	10.1	12.6	15.1	17.7
137.5°	24.7	16.5	8.2	0.0	1.6	3.3	4.9	6.6	8.2	9.9	11.5
140°	18.8	12.5	6.3	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
142.5°	12.5	8.3	4.2	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
145°	8.6	5.7	2.9	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
147.5°	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	0.7	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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	876.7	874.5	873.8	873.2	872.5	871.9	871.2	870.6	869.9	869.3	868.6
5°	864.9	861.7	860.5	859.3	858.1	856.9	855.6	854.4	853.2	852.0	850.8
7.5°	851.9	847.8	846.4	845.0	843.5	842.1	840.7	839.3	837.8	836.4	835.0
10°	837.7	833.0	831.7	830.4	829.1	827.8	826.4	825.1	823.8	822.5	821.2
12.5°	822.1	817.2	816.4	815.7	814.9	814.1	813.4	812.6	811.8	811.1	810.3
15°	804.8	799.4	799.7	800.1	800.4	800.7	801.1	801.4	801.7	802.1	802.4
17.5°	787.2	781.6	783.9	786.2	788.5	790.8	793.2	795.5	797.8	800.1	802.4
20°	770.1	764.8	769.7	774.7	779.6	784.6	789.5	794.5	799.4	804.4	809.3
22.5°	751.0	746.1	753.9	761.7	769.5	777.3	785.0	792.8	800.6	808.4	816.2
25°	732.6	728.3	738.8	749.4	759.9	770.4	781.0	791.5	802.0	812.6	823.1
27.5°	714.7	711.5	724.3	737.2	750.0	762.9	775.7	788.6	801.4	814.3	827.1
30°	698.5	696.6	711.5	726.5	741.4	756.3	771.3	786.2	801.1	816.1	831.0
32.5°	683.8	683.8	700.5	717.2	733.9	750.6	767.2	783.9	800.6	817.3	834.0
35°	668.9	671.0	689.2	707.4	725.7	743.9	762.1	780.3	798.6	816.8	835.0
37.5°	655.1	659.1	678.8	698.4	718.1	737.7	757.4	777.0	796.7	816.3	836.0
40°	638.4	644.3	665.7	687.1	708.5	729.9	751.4	772.8	794.2	815.6	837.0
42.5°	621.5	629.5	652.4	675.4	698.3	721.3	744.2	767.2	790.1	813.1	836.0
45°	603.5	613.6	638.2	662.8	687.4	712.0	736.6	761.2	785.8	810.4	835.0
47.5°	585.6	597.8	623.9	650.1	676.2	702.3	728.5	754.6	780.7	806.9	833.0
50°	566.8	581.0	608.8	636.6	664.3	692.1	719.9	747.7	775.4	803.2	831.0
52.5°	547.0	563.2	592.4	621.6	650.8	680.0	709.3	738.5	767.7	796.9	826.1
55°	527.4	545.5	576.2	607.0	637.7	668.4	699.2	729.9	760.6	791.4	822.1
57.5°	507.6	527.7	560.1	592.5	624.9	657.3	689.6	722.0	754.4	786.8	819.2
60°	485.2	506.9	541.0	575.2	609.3	643.5	677.6	711.8	745.9	780.1	814.2
62.5°	463.8	487.2	523.0	558.8	594.6	630.4	666.1	701.9	737.7	773.5	809.3
65°	441.4	466.4	503.7	541.1	578.4	615.7	653.1	690.4	727.7	765.1	802.4
67.5°	418.1	444.7	483.5	522.2	561.0	599.7	638.5	677.2	716.0	754.7	793.5
70°	394.2	421.9	461.8	501.6	541.5	581.3	621.2	661.0	700.9	740.7	780.6
72.5°	369.7	398.2	438.5	478.8	519.1	559.4	599.7	640.0	680.3	720.6	760.9
75°	345.2	374.5	414.7	454.9	495.1	535.3	575.4	615.6	655.8	696.0	736.2
77.5°	318.3	347.8	387.7	427.5	467.4	507.2	547.1	586.9	626.8	666.6	706.5
80°	294.3	324.1	363.0	401.8	440.7	479.6	518.4	557.3	596.2	635.0	673.9
82.5°	269.9	299.4	337.2	374.9	412.7	450.5	488.2	526.0	563.8	601.5	639.3
85°	248.6	277.7	314.3	350.8	387.4	423.9	460.5	497.0	533.6	570.1	606.7
87.5°	229.5	257.9	293.5	329.1	364.6	400.2	435.8	471.4	506.9	542.5	578.1
90°	216.1	243.1	277.5	311.8	346.2	380.6	414.9	449.3	483.7	518.0	552.4
92.5°	203.8	229.3	263.0	296.7	330.4	364.1	397.8	431.5	465.2	498.9	532.6
95°	193.2	217.4	250.2	283.0	315.9	348.7	381.5	414.3	447.2	480.0	512.8
97.5°	181.8	204.5	236.7	268.9	301.0	333.2	365.4	397.6	429.7	461.9	494.1
100°	171.3	192.7	224.1	255.5	286.9	318.3	349.7	381.1	412.5	443.9	475.3
102.5°	160.7	180.8	211.4	242.1	272.7	303.3	334.0	364.6	395.2	425.9	456.5
105°	149.3	168.0	198.1	228.2	258.2	288.3	318.4	348.5	378.5	408.6	438.7
107.5°	137.9	155.1	184.3	213.5	242.7	271.9	301.2	330.4	359.6	388.8	418.0
110°	127.4	143.3	171.4	199.5	227.6	255.7	283.8	311.9	340.0	368.1	396.2



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	115.9	130.4	157.6	184.9	212.1	239.3	266.6	293.8	321.0	348.3	375.5
115°	104.5	117.6	143.8	170.1	196.3	222.6	248.8	275.1	301.3	327.6	353.8
117.5°	93.1	104.7	130.0	155.2	180.5	205.7	231.0	256.2	281.5	306.7	332.0
120°	81.7	91.9	116.1	140.2	164.4	188.5	212.7	236.8	261.0	285.1	309.3
122.5°	72.0	81.0	103.8	126.7	149.5	172.4	195.2	218.1	240.9	263.8	286.6
125°	60.6	68.2	89.8	111.4	133.1	154.7	176.3	197.9	219.6	241.2	262.8
127.5°	49.2	55.3	75.2	95.1	114.9	134.8	154.7	174.6	194.4	214.3	234.2
130°	38.7	43.5	61.6	79.7	97.8	115.9	134.1	152.2	170.3	188.4	206.5
132.5°	29.0	32.6	48.7	64.9	81.0	97.2	113.3	129.5	145.6	161.8	177.9
135°	20.2	22.7	37.1	51.5	65.9	80.3	94.6	109.0	123.4	137.8	152.2
137.5°	13.2	14.8	27.3	39.8	52.4	64.9	77.4	89.9	102.5	115.0	127.5
140°	7.0	7.9	18.8	29.6	40.5	51.4	62.2	73.1	84.0	94.8	105.7
142.5°	3.6	4.0	13.0	22.0	31.0	40.0	49.0	58.0	67.0	76.0	85.0
145°	0.9	1.0	8.2	15.5	22.7	30.0	37.2	44.5	51.7	59.0	66.2
147.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4	43.9	49.4
150°	0.0	0.0	3.8	7.7	11.5	15.4	19.2	23.1	26.9	30.8	34.6
152.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.6	13.9	16.2	18.5	20.8
155°	0.0	0.0	1.2	2.4	3.6	4.8	6.1	7.3	8.5	9.7	10.9
157.5°	0.0	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0
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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	867.6	866.6	865.6	864.6	863.7	862.7	861.7	860.7	859.7	858.7	857.7
5°	849.7	848.6	847.5	846.4	845.3	844.2	843.1	842.0	840.9	840.2	839.6
7.5°	834.0	833.0	832.0	831.0	830.1	829.1	828.1	827.1	826.1	825.8	825.4
10°	821.1	821.0	820.9	820.8	820.6	820.5	820.4	820.3	820.2	820.0	819.8
12.5°	811.3	812.3	813.3	814.3	815.2	816.2	817.2	818.2	819.2	819.9	820.5
15°	805.6	808.8	811.9	815.1	818.3	821.5	824.6	827.8	831.0	832.8	834.5
17.5°	807.7	812.9	818.2	823.5	828.7	834.0	839.3	844.5	849.8	851.9	854.0
20°	815.7	822.0	828.4	834.8	841.1	847.5	853.9	860.2	866.6	869.1	871.6
22.5°	823.7	831.1	838.6	846.1	853.5	861.0	868.5	875.9	883.4	886.1	888.9
25°	831.4	839.8	848.1	856.5	864.8	873.2	881.5	889.9	898.2	901.4	904.6
27.5°	836.6	846.2	855.7	865.3	874.8	884.4	893.9	903.5	913.0	916.4	919.8
30°	841.5	852.1	862.6	873.2	883.7	894.3	904.8	915.4	925.9	930.0	934.0
32.5°	845.6	857.3	868.9	880.5	892.2	903.8	915.4	927.1	938.7	943.3	947.9
35°	848.0	860.9	873.9	886.8	899.8	912.7	925.7	938.6	951.6	956.9	962.1
37.5°	850.3	864.5	878.8	893.1	907.3	921.6	935.9	950.1	964.4	970.4	976.5
40°	852.6	868.2	883.8	899.4	914.9	930.5	946.1	961.7	977.3	984.0	990.7
42.5°	853.0	870.0	887.0	904.0	921.1	938.1	955.1	972.1	989.1	996.6	1004.0
45°	853.7	872.3	891.0	909.7	928.3	947.0	965.7	984.3	1003.0	1011.1	1019.2
47.5°	853.5	874.1	894.6	915.1	935.7	956.2	976.7	997.3	1017.8	1026.7	1035.6
50°	853.3	875.6	897.9	920.2	942.4	964.7	987.0	1009.3	1031.6	1041.5	1051.4
52.5°	850.4	874.6	898.9	923.2	947.4	971.7	996.0	1020.2	1044.5	1055.3	1066.0
55°	848.5	874.8	901.2	927.5	953.9	980.2	1006.6	1032.9	1059.3	1070.6	1081.9
57.5°	847.2	875.2	903.2	931.2	959.2	987.2	1015.2	1043.2	1071.2	1083.3	1095.3
60°	843.8	873.5	903.1	932.8	962.4	992.1	1021.7	1051.4	1081.0	1093.4	1105.8
62.5°	840.3	871.2	902.2	933.2	964.1	995.1	1026.1	1057.0	1088.0	1100.5	1113.0
65°	834.5	866.5	898.6	930.6	962.7	994.7	1026.8	1058.8	1090.9	1103.5	1116.2
67.5°	826.1	858.7	891.3	923.9	956.6	989.2	1021.8	1054.4	1087.0	1099.6	1112.2
70°	813.5	846.5	879.4	912.4	945.3	978.3	1011.2	1044.2	1077.1	1089.5	1101.9
72.5°	793.8	826.8	859.7	892.6	925.6	958.5	991.4	1024.4	1057.3	1069.3	1081.2
75°	768.6	801.0	833.4	865.8	898.1	930.5	962.9	995.3	1027.7	1039.2	1050.7
77.5°	737.9	769.3	800.7	832.1	863.5	894.9	926.3	957.7	989.1	1000.4	1011.7
80°	704.3	734.7	765.1	795.5	826.0	856.4	886.8	917.2	947.6	958.6	969.6
82.5°	668.6	697.9	727.3	756.6	785.9	815.2	844.6	873.9	903.2	914.0	924.7
85°	635.5	664.2	693.0	721.8	750.5	779.3	808.1	836.8	865.6	876.0	886.5
87.5°	605.2	632.3	659.4	686.5	713.7	740.8	767.9	795.0	822.1	832.3	842.5
90°	579.0	605.5	632.1	658.7	685.2	711.8	738.4	764.9	791.5	801.2	810.8
92.5°	558.3	584.0	609.7	635.4	661.0	686.7	712.4	738.1	763.8	773.1	782.5
95°	537.5	562.2	586.9	611.6	636.4	661.1	685.8	710.5	735.2	744.1	753.0
97.5°	518.0	542.0	565.9	589.8	613.8	637.7	661.6	685.6	709.5	718.0	726.4
100°	498.7	522.1	545.5	568.9	592.2	615.6	639.0	662.4	685.8	694.0	702.3
102.5°	479.3	502.2	525.0	547.9	570.7	593.6	616.4	639.3	662.1	670.3	678.6
105°	460.8	482.9	504.9	527.0	549.1	571.2	593.2	615.3	637.4	645.2	653.0
107.5°	439.5	461.0	482.6	504.1	525.6	547.1	568.7	590.2	611.7	619.3	626.8
110°	417.2	438.2	459.1	480.1	501.1	522.1	543.0	564.0	585.0	592.7	600.4



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	395.7	415.9	436.1	456.3	476.5	496.7	516.9	537.1	557.3	564.5	571.8
115°	373.3	392.9	412.4	431.9	451.5	471.0	490.5	510.1	529.6	536.5	543.4
117.5°	350.8	369.6	388.3	407.1	425.9	444.7	463.4	482.2	501.0	507.8	514.6
120°	327.4	345.5	363.6	381.7	399.9	418.0	436.1	454.2	472.3	478.8	485.3
122.5°	303.9	321.3	338.6	356.0	373.3	390.7	408.0	425.4	442.7	449.1	455.4
125°	279.5	296.2	312.9	329.6	346.2	362.9	379.6	396.3	413.0	419.2	425.3
127.5°	250.7	267.1	283.6	300.1	316.5	333.0	349.5	365.9	382.4	388.3	394.3
130°	222.5	238.6	254.6	270.6	286.7	302.7	318.7	334.8	350.8	356.5	362.2
132.5°	193.5	209.1	224.7	240.3	255.8	271.4	287.0	302.6	318.2	323.7	329.2
135°	167.2	182.3	197.3	212.4	227.4	242.5	257.5	272.6	287.6	292.6	297.7
137.5°	141.6	155.6	169.7	183.7	197.8	211.8	225.9	239.9	254.0	259.0	264.1
140°	118.1	130.5	142.9	155.3	167.8	180.2	192.6	205.0	217.4	223.1	228.8
142.5°	96.0	107.0	117.9	128.9	139.9	150.9	161.8	172.8	183.8	189.4	195.0
145°	75.6	85.1	94.5	104.0	113.4	122.9	132.3	141.8	151.2	156.9	162.6
147.5°	57.4	65.4	73.4	81.4	89.5	97.5	105.5	113.5	121.5	127.2	132.9
150°	41.3	48.0	54.7	61.4	68.1	74.8	81.5	88.2	94.9	100.2	105.4
152.5°	26.3	31.8	37.3	42.8	48.2	53.7	59.2	64.7	70.2	75.0	79.8
155°	15.0	19.0	23.1	27.1	31.2	35.2	39.3	43.3	47.4	51.7	56.0
157.5°	5.7	8.5	11.2	14.0	16.7	19.5	22.2	25.0	27.7	31.3	34.9
160°	1.4	2.8	4.3	5.7	7.1	8.5	10.0	11.4	12.8	15.4	18.1
162.5°	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	3.6	5.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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	0.0	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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	856.7	855.7	854.8	853.8	852.8	851.8	850.8	851.7	852.6	853.4	854.3
5°	838.9	838.3	837.6	837.0	836.3	835.7	835.0	835.5	836.1	836.6	837.2
7.5°	825.1	824.8	824.4	824.1	823.8	823.4	823.1	823.4	823.8	824.1	824.4
10°	819.5	819.3	819.1	818.9	818.6	818.4	818.2	818.1	818.0	817.9	817.8
12.5°	821.2	821.8	822.5	823.1	823.8	824.4	825.1	824.0	822.9	821.8	820.7
15°	836.3	838.0	839.8	841.5	843.3	845.0	846.8	844.9	843.1	841.2	839.3
17.5°	856.1	858.2	860.2	862.3	864.4	866.5	868.6	866.6	864.6	862.7	860.7
20°	874.2	876.7	879.2	881.7	884.3	886.8	889.3	886.6	883.8	881.1	878.3
22.5°	891.6	894.4	897.1	899.9	902.6	905.4	908.1	904.9	901.7	898.6	895.4
25°	907.8	911.0	914.1	917.3	920.5	923.7	926.9	923.4	919.9	916.4	912.9
27.5°	923.2	926.6	930.1	933.5	936.9	940.3	943.7	940.0	936.2	932.5	928.8
30°	938.1	942.2	946.2	950.3	954.4	958.4	962.5	958.2	953.9	949.6	945.3
32.5°	952.5	957.1	961.8	966.4	971.0	975.6	980.2	975.4	970.6	965.7	960.9
35°	967.4	972.7	977.9	983.2	988.5	993.7	999.0	993.6	988.2	982.9	977.5
37.5°	982.5	988.6	994.6	1000.7	1006.7	1012.8	1018.8	1012.9	1006.9	1001.0	995.1
40°	997.4	1004.1	1010.8	1017.5	1024.2	1030.9	1037.6	1031.1	1024.6	1018.2	1011.7
42.5°	1011.5	1019.0	1026.4	1033.9	1041.4	1048.8	1056.3	1049.3	1042.3	1035.2	1028.2
45°	1027.4	1035.5	1043.6	1051.7	1059.9	1068.0	1076.1	1068.5	1060.9	1053.4	1045.8
47.5°	1044.5	1053.4	1062.2	1071.1	1080.0	1088.9	1097.8	1089.6	1081.3	1073.1	1064.9
50°	1061.3	1071.2	1081.0	1090.9	1100.8	1110.7	1120.6	1111.6	1102.6	1093.6	1084.6
52.5°	1076.8	1087.5	1098.3	1109.0	1119.8	1130.5	1141.3	1131.6	1122.0	1112.3	1102.7
55°	1093.2	1104.5	1115.9	1127.2	1138.5	1149.8	1161.1	1150.9	1140.7	1130.5	1120.3
57.5°	1107.4	1119.5	1131.5	1143.6	1155.7	1167.7	1179.8	1169.0	1158.3	1147.5	1136.8
60°	1118.2	1130.6	1143.1	1155.5	1167.9	1180.3	1192.7	1181.8	1171.0	1160.1	1149.2
62.5°	1125.5	1138.0	1150.6	1163.1	1175.6	1188.1	1200.6	1189.6	1178.6	1167.7	1156.7
65°	1128.8	1141.4	1154.1	1166.7	1179.3	1192.0	1204.6	1193.4	1182.2	1171.0	1159.8
67.5°	1124.9	1137.5	1150.1	1162.7	1175.4	1188.0	1200.6	1189.6	1178.6	1167.7	1156.7
70°	1114.3	1126.7	1139.1	1151.5	1163.9	1176.3	1188.7	1177.6	1166.5	1155.4	1144.3
72.5°	1093.2	1105.2	1117.1	1129.1	1141.1	1153.0	1165.0	1154.2	1143.5	1132.7	1122.0
75°	1062.3	1073.8	1085.3	1096.8	1108.4	1119.9	1131.4	1121.0	1110.6	1100.1	1089.7
77.5°	1023.0	1034.3	1045.7	1057.0	1068.3	1079.6	1090.9	1080.6	1070.3	1059.9	1049.6
80°	980.5	991.5	1002.5	1013.5	1024.4	1035.4	1046.4	1036.3	1026.2	1016.1	1006.0
82.5°	935.5	946.2	957.0	967.7	978.5	989.2	1000.0	990.7	981.3	972.0	962.7
85°	896.9	907.3	917.8	928.2	938.6	949.1	959.5	949.8	940.2	930.5	920.8
87.5°	852.7	862.9	873.2	883.4	893.6	903.8	914.0	904.8	895.6	886.3	877.1
90°	820.5	830.2	839.8	849.5	859.2	868.8	878.5	869.5	860.5	851.5	842.5
92.5°	791.8	801.1	810.5	819.8	829.1	838.5	847.8	839.0	830.2	821.5	812.7
95°	761.9	770.8	779.6	788.5	797.4	806.3	815.2	807.0	798.7	790.5	782.3
97.5°	734.9	743.3	751.8	760.2	768.7	777.1	785.6	777.8	770.0	762.2	754.4
100°	710.5	718.7	727.0	735.2	743.4	751.7	759.9	751.9	743.9	735.9	727.9
102.5°	686.8	695.0	703.3	711.5	719.7	728.0	736.2	728.1	719.9	711.8	703.7
105°	660.8	668.6	676.3	684.1	691.9	699.7	707.5	699.8	692.1	684.4	676.7
107.5°	634.4	642.0	649.5	657.1	664.7	672.2	679.8	672.3	664.9	657.4	650.0
110°	608.1	615.8	623.4	631.1	638.8	646.5	654.2	646.6	639.0	631.5	623.9



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	579.0	586.3	593.5	600.8	608.0	615.3	622.5	615.4	608.2	601.1	594.0
115°	550.4	557.3	564.2	571.1	578.1	585.0	591.9	585.1	578.3	571.5	564.7
117.5°	521.4	528.2	535.1	541.9	548.7	555.5	562.3	555.7	549.1	542.5	535.9
120°	491.7	498.2	504.7	511.2	517.6	524.1	530.6	524.3	518.1	511.8	505.6
122.5°	461.8	468.2	474.5	480.9	487.3	493.6	500.0	494.1	488.1	482.2	476.3
125°	431.5	437.6	443.8	449.9	456.1	462.2	468.4	462.7	457.0	451.3	445.6
127.5°	400.2	406.1	412.1	418.0	423.9	429.9	435.8	430.4	425.0	419.7	414.3
130°	367.9	373.6	379.4	385.1	390.8	396.5	402.2	397.0	391.9	386.7	381.5
132.5°	334.7	340.2	345.6	351.1	356.6	362.1	367.6	362.8	357.9	353.1	348.3
135°	302.7	307.8	312.8	317.9	322.9	328.0	333.0	328.6	324.2	319.8	315.4
137.5°	269.1	274.2	279.2	284.3	289.3	294.4	299.4	295.3	291.3	287.2	283.1
140°	234.5	240.2	246.0	251.7	257.4	263.1	268.8	264.7	260.7	256.6	252.5
142.5°	200.6	206.2	211.8	217.4	223.0	228.6	234.2	230.8	227.4	224.0	220.6
145°	168.3	174.0	179.8	185.5	191.2	196.9	202.6	199.5	196.4	193.4	190.3
147.5°	138.6	144.3	150.1	155.8	161.5	167.2	172.9	170.0	167.2	164.3	161.5
150°	110.7	116.0	121.2	126.5	131.8	137.0	142.3	139.9	137.5	135.1	132.7
152.5°	84.7	89.5	94.3	99.1	104.0	108.8	113.6	111.5	109.4	107.4	105.3
155°	60.3	64.6	68.8	73.1	77.4	81.7	86.0	84.5	82.9	81.4	79.8
157.5°	38.6	42.2	45.8	49.4	53.1	56.7	60.3	59.1	57.9	56.7	55.5
160°	20.7	23.4	26.0	28.7	31.3	34.0	36.6	35.7	34.8	34.0	33.1
162.5°	6.9	8.6	10.2	11.9	13.5	15.2	16.8	16.4	15.9	15.5	15.0
165°	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.0	4.0	4.0	4.0
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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	855.2	856.1	856.9	857.8	858.7	860.2	861.8	863.3	864.8	866.4	867.9
5°	837.7	838.3	838.8	839.4	839.9	841.7	843.4	845.2	846.9	848.7	850.4
7.5°	824.8	825.1	825.4	825.8	826.1	827.6	829.2	830.7	832.2	833.8	835.3
10°	817.6	817.5	817.4	817.3	817.2	818.3	819.4	820.5	821.6	822.7	823.8
12.5°	819.6	818.5	817.4	816.3	815.2	815.4	815.6	815.9	816.1	816.3	816.5
15°	837.5	835.6	833.7	831.9	830.0	827.8	825.6	823.4	821.2	819.1	816.9
17.5°	858.7	856.7	854.8	852.8	850.8	846.2	841.6	837.0	832.4	827.7	823.1
20°	875.6	872.8	870.1	867.3	864.6	859.2	853.8	848.5	843.1	837.7	832.3
22.5°	892.2	889.0	885.9	882.7	879.5	873.1	866.7	860.4	854.0	847.6	841.2
25°	909.3	905.8	902.3	898.8	895.3	887.8	880.4	872.9	865.4	858.0	850.5
27.5°	925.0	921.3	917.6	913.8	910.1	901.5	893.0	884.4	875.8	867.3	858.7
30°	941.1	936.8	932.5	928.2	923.9	914.2	904.6	894.9	885.3	875.6	866.0
32.5°	956.1	951.3	946.4	941.6	936.8	925.8	914.8	903.8	892.8	881.9	870.9
35°	972.1	966.7	961.4	956.0	950.6	938.3	926.0	913.7	901.4	889.1	876.8
37.5°	989.1	983.2	977.3	971.3	965.4	951.8	938.2	924.6	911.0	897.3	883.7
40°	1005.2	998.7	992.3	985.8	979.3	964.4	949.4	934.5	919.6	904.6	889.7
42.5°	1021.2	1014.2	1007.1	1000.1	993.1	976.6	960.2	943.7	927.2	910.8	894.3
45°	1038.2	1030.6	1023.1	1015.5	1007.9	989.8	971.7	953.6	935.5	917.3	899.2
47.5°	1056.6	1048.4	1040.2	1031.9	1023.7	1003.7	983.7	963.8	943.8	923.8	903.8
50°	1075.5	1066.5	1057.5	1048.5	1039.5	1017.5	995.6	973.6	951.7	929.7	907.8
52.5°	1093.0	1083.4	1073.7	1064.1	1054.4	1030.5	1006.5	982.6	958.6	934.7	910.7
55°	1110.0	1099.8	1089.6	1079.4	1069.2	1043.3	1017.4	991.5	965.6	939.6	913.7
57.5°	1126.0	1115.3	1104.5	1093.8	1083.0	1055.3	1027.7	1000.0	972.3	944.7	917.0
60°	1138.4	1127.5	1116.6	1105.8	1094.9	1065.5	1036.0	1006.6	977.2	947.7	918.3
62.5°	1145.7	1134.7	1123.8	1112.8	1101.8	1071.1	1040.3	1009.6	978.8	948.1	917.3
65°	1148.6	1137.4	1126.2	1115.0	1103.8	1072.1	1040.3	1008.6	976.9	945.1	913.4
67.5°	1145.7	1134.7	1123.8	1112.8	1101.8	1069.3	1036.8	1004.3	971.8	939.3	906.8
70°	1133.3	1122.2	1111.1	1100.0	1088.9	1056.3	1023.7	991.1	958.5	925.9	893.3
72.5°	1111.2	1100.5	1089.7	1079.0	1068.2	1035.8	1003.4	971.0	938.6	906.3	873.9
75°	1079.3	1068.9	1058.4	1048.0	1037.6	1005.8	973.9	942.1	910.2	878.4	846.5
77.5°	1039.3	1029.0	1018.6	1008.3	998.0	967.0	936.1	905.1	874.2	843.2	812.3
80°	995.9	985.8	975.7	965.6	955.5	925.5	895.6	865.6	835.6	805.7	775.7
82.5°	953.3	944.0	934.7	925.3	916.0	886.5	856.9	827.4	797.9	768.3	738.8
85°	911.2	901.5	891.8	882.2	872.5	844.1	815.6	787.2	758.8	730.3	701.9
87.5°	867.9	858.7	849.4	840.2	831.0	803.8	776.6	749.3	722.1	694.9	667.7
90°	833.4	824.4	815.4	806.4	797.4	771.4	745.4	719.3	693.3	667.3	641.3
92.5°	803.9	795.1	786.4	777.6	768.8	743.8	718.7	693.7	668.7	643.6	618.6
95°	774.0	765.8	757.6	749.3	741.1	716.9	692.8	668.6	644.5	620.3	596.2
97.5°	746.6	738.8	731.0	723.2	715.4	692.0	668.6	645.2	621.8	598.5	575.1
100°	719.8	711.8	703.8	695.8	687.8	665.3	642.8	620.3	597.8	575.2	552.7
102.5°	695.5	687.4	679.3	671.1	663.0	641.0	619.1	597.1	575.2	553.2	531.3
105°	669.1	661.4	653.7	646.0	638.3	616.8	595.3	573.8	552.3	530.7	509.2
107.5°	642.5	635.1	627.6	620.2	612.7	591.9	571.2	550.4	529.7	508.9	488.2
110°	616.3	608.7	601.2	593.6	586.0	566.0	546.0	526.0	506.0	486.1	466.1



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	586.8	579.7	572.6	565.4	558.3	539.1	519.9	500.7	481.5	462.2	443.0
115°	557.8	551.0	544.2	537.4	530.6	512.2	493.7	475.3	456.8	438.4	419.9
117.5°	529.4	522.8	516.2	509.6	503.0	485.2	467.4	449.6	431.8	414.1	396.3
120°	499.3	493.1	486.8	480.6	474.3	457.2	440.1	422.9	405.8	388.7	371.6
122.5°	470.3	464.4	458.5	452.5	446.6	429.9	413.2	396.5	379.8	363.2	346.5
125°	439.8	434.1	428.4	422.7	417.0	400.9	384.7	368.6	352.4	336.3	320.1
127.5°	408.9	403.5	398.2	392.8	387.4	372.0	356.6	341.3	325.9	310.5	295.1
130°	376.4	371.2	366.0	360.9	355.7	341.1	326.5	311.9	297.3	282.7	268.1
132.5°	343.4	338.6	333.8	328.9	324.1	310.5	296.9	283.3	269.7	256.0	242.4
135°	311.1	306.7	302.3	297.9	293.5	280.9	268.2	255.6	243.0	230.3	217.7
137.5°	279.1	275.0	270.9	266.9	262.8	251.2	239.5	227.9	216.3	204.6	193.0
140°	248.5	244.4	240.3	236.3	232.2	221.8	211.3	200.9	190.5	180.0	169.6
142.5°	217.2	213.8	210.4	207.0	203.6	194.0	184.5	174.9	165.4	155.8	146.3
145°	187.2	184.1	181.1	178.0	174.9	166.3	157.8	149.2	140.6	132.1	123.5
147.5°	158.6	155.8	152.9	150.1	147.2	139.5	131.8	124.2	116.5	108.8	101.1
150°	130.2	127.8	125.4	123.0	120.6	113.9	107.2	100.5	93.8	87.1	80.4
152.5°	103.2	101.1	99.1	97.0	94.9	89.1	83.3	77.4	71.6	65.8	60.0
155°	78.3	76.7	75.2	73.6	72.1	67.2	62.2	57.3	52.4	47.4	42.5
157.5°	54.2	53.0	51.8	50.6	49.4	45.6	41.7	37.9	34.0	30.2	26.3
160°	32.2	31.3	30.5	29.6	28.7	26.4	24.1	21.8	19.5	17.1	14.8
162.5°	14.6	14.1	13.7	13.2	12.8	11.7	10.6	9.5	8.4	7.4	6.3
165°	4.0	4.0	4.0	4.0	4.0	3.7	3.3	3.0	2.7	2.3	2.0
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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	869.4	871.0	872.5	872.9	873.4	873.8	874.3	874.7	875.2	875.6	876.1
5°	852.2	853.9	855.7	856.7	857.7	858.7	859.7	860.6	861.6	862.6	863.6
7.5°	836.8	838.4	839.9	841.0	842.1	843.2	844.3	845.4	846.5	847.6	848.7
10°	824.9	826.0	827.1	827.9	828.6	829.4	830.2	830.9	831.7	832.5	833.2
12.5°	816.8	817.0	817.2	817.3	817.4	817.5	817.6	817.8	817.9	818.0	818.1
15°	814.7	812.5	810.3	809.2	808.1	807.0	805.9	804.8	803.7	802.6	801.5
17.5°	818.5	813.9	809.3	806.4	803.6	800.7	797.9	795.0	792.2	789.3	786.5
20°	827.0	821.6	816.2	810.6	805.0	799.4	793.8	788.2	782.6	777.0	771.4
22.5°	834.9	828.5	822.1	813.9	805.6	797.4	789.2	780.9	772.7	764.5	756.2
25°	843.0	835.6	828.1	817.1	806.1	795.2	784.2	773.2	762.2	751.3	740.3
27.5°	850.1	841.6	833.0	819.5	806.0	792.5	779.0	765.5	752.0	738.5	725.0
30°	856.3	846.7	837.0	821.4	805.8	790.2	774.6	759.0	743.4	727.8	712.2
32.5°	859.9	848.9	837.9	820.9	803.9	786.9	769.9	752.8	735.8	718.8	701.8
35°	864.5	852.2	839.9	821.5	803.0	784.6	766.1	747.7	729.2	710.8	692.3
37.5°	870.1	856.5	842.9	822.7	802.5	782.3	762.1	741.9	721.7	701.5	681.3
40°	874.8	859.8	844.9	823.2	801.4	779.7	757.9	736.2	714.4	692.7	670.9
42.5°	877.8	861.4	844.9	821.6	798.3	775.1	751.8	728.5	705.2	682.0	658.7
45°	881.1	863.0	844.9	820.0	795.1	770.1	745.2	720.3	695.4	670.4	645.5
47.5°	883.9	863.9	843.9	817.4	791.0	764.5	738.0	711.6	685.1	658.6	632.2
50°	885.8	863.9	841.9	813.8	785.7	757.6	729.5	701.3	673.2	645.1	617.0
52.5°	886.8	862.8	838.9	809.3	779.6	750.0	720.3	690.7	661.0	631.4	601.7
55°	887.8	861.9	836.0	804.8	773.6	742.4	711.2	680.1	648.9	617.7	586.5
57.5°	889.3	861.7	834.0	801.1	768.1	735.2	702.3	669.3	636.4	603.5	570.5
60°	888.9	859.4	830.0	795.4	760.8	726.3	691.7	657.1	622.5	588.0	553.4
62.5°	886.6	855.8	825.1	789.0	752.9	716.7	680.6	644.5	608.4	572.2	536.1
65°	881.7	849.9	818.2	780.3	742.4	704.6	666.7	628.8	590.9	553.1	515.2
67.5°	874.3	841.8	809.3	770.1	730.9	691.7	652.5	613.3	574.1	534.9	495.7
70°	860.7	828.1	795.5	755.4	715.3	675.3	635.2	595.1	555.0	515.0	474.9
72.5°	841.5	809.1	776.7	736.1	695.5	654.8	614.2	573.6	533.0	492.3	451.7
75°	814.7	782.8	751.0	710.4	669.8	629.1	588.5	547.9	507.3	466.6	426.0
77.5°	781.3	750.4	719.4	679.5	639.7	599.8	560.0	520.1	480.3	440.4	400.6
80°	745.7	715.8	685.8	646.9	608.1	569.2	530.3	491.5	452.6	413.7	374.9
82.5°	709.3	679.7	650.2	612.5	574.9	537.2	499.6	461.9	424.3	386.6	349.0
85°	673.5	645.0	616.6	580.1	543.7	507.2	470.8	434.3	397.9	361.4	325.0
87.5°	640.4	613.2	586.0	550.8	515.5	480.3	445.0	409.8	374.5	339.3	304.0
90°	615.2	589.2	563.2	528.9	494.7	460.4	426.2	391.9	357.7	323.4	289.2
92.5°	593.6	568.5	543.5	510.2	477.0	443.7	410.4	377.2	343.9	310.6	277.4
95°	572.0	547.9	523.7	491.1	458.5	425.9	393.3	360.6	328.0	295.4	262.8
97.5°	551.7	528.3	504.9	473.1	441.2	409.4	377.6	345.7	313.9	282.1	250.2
100°	530.2	507.7	485.2	454.1	423.0	392.0	360.9	329.8	298.7	267.7	236.6
102.5°	509.3	487.4	465.4	435.1	404.8	374.5	344.2	313.9	283.6	253.3	223.0
105°	487.7	466.2	444.7	415.3	385.8	356.4	327.0	297.5	268.1	238.7	209.2
107.5°	467.4	446.7	425.9	397.1	368.4	339.6	310.8	282.1	253.3	224.5	195.8
110°	446.1	426.1	406.1	378.1	350.1	322.1	294.1	266.2	238.2	210.2	182.2



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	423.8	404.6	385.4	358.3	331.2	304.0	276.9	249.8	222.7	195.5	168.4
115°	401.5	383.0	364.6	338.4	312.1	285.9	259.7	233.4	207.2	181.0	154.7
117.5°	378.5	360.7	342.9	317.6	292.4	267.1	241.9	216.6	191.4	166.1	140.9
120°	354.4	337.3	320.2	296.2	272.1	248.1	224.0	200.0	175.9	151.9	127.8
122.5°	329.8	313.1	296.4	273.7	251.0	228.2	205.5	182.8	160.1	137.3	114.6
125°	304.0	287.8	271.7	250.4	229.1	207.8	186.5	165.2	143.9	122.6	101.3
127.5°	279.8	264.4	249.0	228.9	208.8	188.7	168.6	148.6	128.5	108.4	88.3
130°	253.5	238.9	224.3	205.7	187.2	168.6	150.1	131.5	113.0	94.4	75.9
132.5°	228.8	215.2	201.6	184.5	167.3	150.2	133.1	115.9	98.8	81.7	64.5
135°	205.1	192.4	179.8	164.0	148.2	132.4	116.6	100.7	84.9	69.1	53.3
137.5°	181.4	169.7	158.1	143.8	129.5	115.3	101.0	86.7	72.4	58.2	43.9
140°	159.2	148.7	138.3	125.2	112.2	99.1	86.1	73.0	60.0	46.9	33.9
142.5°	136.7	127.2	117.6	106.1	94.5	83.0	71.5	59.9	48.4	36.9	25.3
145°	114.9	106.4	97.8	87.9	78.0	68.2	58.3	48.4	38.5	28.7	18.8
147.5°	93.5	85.8	78.1	70.2	62.3	54.4	46.5	38.5	30.6	22.7	14.8
150°	73.7	67.0	60.3	54.1	48.0	41.8	35.7	29.5	23.4	17.2	11.1
152.5°	54.1	48.3	42.5	38.1	33.7	29.3	24.9	20.6	16.2	11.8	7.4
155°	37.6	32.6	27.7	24.8	22.0	19.1	16.3	13.4	10.6	7.7	4.9
157.5°	22.5	18.6	14.8	13.3	11.7	10.2	8.7	7.1	5.6	4.1	2.5
160°	12.5	10.2	7.9	7.1	6.4	5.6	4.8	4.1	3.3	2.5	1.8
162.5°	5.2	4.1	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2
165°	1.7	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	876.5	879.2	882.0	884.7	887.5	890.2	893.0	895.7	898.5	901.2	901.4
5°	864.6	868.2	871.8	875.5	879.1	882.7	886.3	890.0	893.6	897.2	898.6
7.5°	849.8	854.2	858.6	863.0	867.4	871.7	876.1	880.5	884.9	889.3	892.0
10°	834.0	839.2	844.3	849.5	854.6	859.8	864.9	870.1	875.2	880.4	884.5
12.5°	818.2	823.7	829.2	834.7	840.2	845.6	851.1	856.6	862.1	867.6	872.9
15°	800.4	806.2	812.0	817.9	823.7	829.5	835.3	841.2	847.0	852.8	859.5
17.5°	783.6	789.4	795.2	801.1	806.9	812.7	818.5	824.4	830.2	836.0	844.1
20°	765.8	771.3	776.8	782.3	787.8	793.2	798.7	804.2	809.7	815.2	824.9
22.5°	748.0	753.1	758.1	763.2	768.2	773.3	778.3	783.4	788.4	793.5	804.9
25°	729.3	733.7	738.1	742.5	746.9	751.2	755.6	760.0	764.4	768.8	781.9
27.5°	711.5	715.0	718.5	722.0	725.5	729.1	732.6	736.1	739.6	743.1	757.9
30°	696.6	698.7	700.8	702.9	705.0	707.0	709.1	711.2	713.3	715.4	732.2
32.5°	684.8	684.9	685.0	685.1	685.2	685.4	685.5	685.6	685.7	685.8	704.6
35°	673.9	671.7	669.5	667.3	665.1	663.0	660.8	658.6	656.4	654.2	675.4
37.5°	661.1	656.8	652.5	648.2	643.9	639.7	635.4	631.1	626.8	622.5	646.1
40°	649.2	642.6	636.0	629.4	622.8	616.3	609.7	603.1	596.5	589.9	616.0
42.5°	635.4	626.5	617.6	608.7	599.8	590.9	582.0	573.1	564.2	555.3	584.1
45°	620.6	609.5	598.4	587.3	576.2	565.2	554.1	543.0	531.9	520.8	551.9
47.5°	605.7	592.4	579.1	565.9	552.6	539.3	526.0	512.8	499.5	486.2	519.8
50°	588.9	573.6	558.4	543.1	527.9	512.6	497.4	482.1	466.9	451.6	487.6
52.5°	572.1	554.6	537.2	519.7	502.3	484.8	467.4	449.9	432.5	415.0	453.5
55°	555.3	535.8	516.2	496.7	477.1	457.6	438.0	418.5	398.9	379.4	420.1
57.5°	537.6	516.2	494.8	473.4	452.0	430.5	409.1	387.7	366.3	344.9	387.6
60°	518.8	495.6	472.5	449.3	426.1	403.0	379.8	356.6	333.5	310.3	354.9
62.5°	500.0	475.1	450.2	425.2	400.3	375.4	350.5	325.5	300.6	275.7	322.0
65°	477.3	451.1	424.8	398.6	372.3	346.1	319.8	293.6	267.3	241.1	289.0
67.5°	456.5	428.5	400.5	372.5	344.5	316.5	288.5	260.5	232.5	204.5	254.0
70°	434.8	405.6	376.4	347.2	318.0	288.7	259.5	230.3	201.1	171.9	222.5
72.5°	411.1	381.0	350.9	320.8	290.7	260.7	230.6	200.5	170.4	140.3	191.8
75°	385.4	354.9	324.4	293.8	263.3	232.8	202.3	171.7	141.2	110.7	162.6
77.5°	360.7	329.8	299.0	268.1	237.3	206.4	175.6	144.7	113.9	83.0	135.2
80°	336.0	305.1	274.3	243.4	212.6	181.7	150.9	120.0	89.2	58.3	110.2
82.5°	311.3	280.8	250.3	219.7	189.2	158.7	128.2	97.6	67.1	36.6	88.0
85°	288.5	258.5	228.6	198.6	168.6	138.7	108.7	78.7	48.8	18.8	69.2
87.5°	268.8	239.6	210.4	181.2	152.0	122.7	93.5	64.3	35.1	5.9	55.0
90°	254.9	226.7	198.5	170.3	142.1	113.8	85.6	57.4	29.2	1.0	48.2
92.5°	244.1	217.0	189.9	162.7	135.6	108.5	81.4	54.2	27.1	0.0	45.6
95°	230.2	204.7	179.3	153.8	128.3	102.9	77.4	51.9	26.5	1.0	44.6
97.5°	218.4	194.1	169.9	145.6	121.3	97.1	72.8	48.5	24.3	0.0	41.7
100°	205.5	182.8	160.1	137.3	114.6	91.9	69.2	46.4	23.7	1.0	40.6
102.5°	192.7	171.4	150.1	128.8	107.5	86.2	64.9	43.6	22.3	1.0	39.0
105°	179.8	159.9	140.1	120.2	100.3	80.5	60.6	40.7	20.9	1.0	36.7
107.5°	167.0	148.6	130.1	111.7	93.2	74.8	56.3	37.9	19.4	1.0	34.8
110°	154.2	137.2	120.2	103.1	86.1	69.1	52.1	35.0	18.0	1.0	32.6



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	141.3	125.7	110.1	94.5	78.9	63.4	47.8	32.2	16.6	1.0	30.3
115°	128.5	114.3	100.2	86.0	71.8	57.7	43.5	29.3	15.2	1.0	27.9
117.5°	115.6	102.9	90.1	77.4	64.7	51.9	39.2	26.5	13.7	1.0	25.5
120°	103.8	92.4	81.0	69.5	58.1	46.7	35.3	23.8	12.4	1.0	23.2
122.5°	91.9	81.8	71.7	61.6	51.5	41.4	31.3	21.2	11.1	1.0	20.9
125°	80.0	71.2	62.4	53.7	44.9	36.1	27.3	18.6	9.8	1.0	18.5
127.5°	68.2	60.7	53.3	45.8	38.3	30.9	23.4	15.9	8.5	1.0	15.7
130°	57.3	51.0	44.8	38.5	32.3	26.0	19.8	13.5	7.3	1.0	13.2
132.5°	47.4	42.2	37.1	31.9	26.8	21.6	16.5	11.3	6.2	1.0	10.8
135°	37.5	33.4	29.4	25.3	21.3	17.2	13.2	9.1	5.1	1.0	8.6
137.5°	29.6	26.4	23.2	20.1	16.9	13.7	10.5	7.4	4.2	1.0	6.8
140°	20.8	18.6	16.4	14.2	12.0	9.8	7.6	5.4	3.2	1.0	5.1
142.5°	13.8	12.4	11.0	9.5	8.1	6.7	5.3	3.8	2.4	1.0	4.0
145°	8.9	8.0	7.1	6.3	5.4	4.5	3.6	2.8	1.9	1.0	2.9
147.5°	6.9	6.2	5.6	4.9	4.3	3.6	3.0	2.3	1.7	1.0	2.3
150°	4.9	4.5	4.0	3.6	3.2	2.7	2.3	1.9	1.4	1.0	1.9
152.5°	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2	1.0	1.7
155°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.4
157.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1
160°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.0
162.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.9
165°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
167.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	1.8
170°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	1.8
172.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
175°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
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: P201360

CATALOG NUMBER: 4LBLEDD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	901.6	901.9	902.1	902.3	902.5	902.8	903.0	903.2	904.1	905.0	905.8
5°	900.1	901.5	902.9	904.4	905.8	907.2	908.7	910.1	912.2	914.3	916.4
7.5°	894.8	897.5	900.3	903.0	905.8	908.5	911.3	914.0	917.4	920.8	924.2
10°	888.5	892.6	896.7	900.7	904.8	908.9	912.9	917.0	921.7	926.4	931.2
12.5°	878.1	883.4	888.7	893.9	899.2	904.5	909.7	915.0	921.5	928.0	934.4
15°	866.2	872.9	879.6	886.2	892.9	899.6	906.3	913.0	921.2	929.5	937.7
17.5°	852.2	860.4	868.5	876.6	884.7	892.9	901.0	909.1	919.6	930.2	940.7
20°	834.5	844.2	853.9	863.5	873.2	882.9	892.5	902.2	915.5	928.8	942.0
22.5°	816.3	827.7	839.1	850.6	862.0	873.4	884.8	896.2	912.5	928.7	945.0
25°	794.9	808.0	821.1	834.1	847.2	860.3	873.3	886.4	905.9	925.5	945.0
27.5°	772.7	787.6	802.4	817.2	832.0	846.9	861.7	876.5	899.3	922.2	945.0
30°	749.0	765.8	782.6	799.4	816.2	833.0	849.8	866.6	892.4	918.2	944.0
32.5°	723.3	742.1	760.9	779.6	798.4	817.2	835.9	854.7	883.5	912.2	941.0
35°	696.6	717.8	739.0	760.1	781.3	802.5	823.7	844.9	876.4	907.9	939.4
37.5°	669.7	693.3	716.9	740.6	764.2	787.8	811.4	835.0	869.1	903.3	937.4
40°	642.2	668.3	694.4	720.6	746.7	772.8	799.0	825.1	861.8	898.4	935.1
42.5°	612.8	641.6	670.4	699.1	727.9	756.7	785.4	814.2	853.3	892.4	931.5
45°	582.9	614.0	645.1	676.1	707.2	738.3	769.3	800.4	842.1	883.8	925.6
47.5°	553.4	587.0	620.6	654.1	687.7	721.3	754.9	788.5	832.3	876.1	919.9
50°	523.6	559.6	595.6	631.7	667.7	703.7	739.7	775.7	821.6	867.5	913.4
52.5°	492.1	530.6	569.2	607.7	646.3	684.8	723.4	761.9	809.7	857.4	905.2
55°	460.9	501.6	542.4	583.1	623.9	664.6	705.4	746.1	795.8	845.6	895.3
57.5°	430.3	473.0	515.7	558.5	601.2	643.9	686.6	729.3	781.1	832.9	884.8
60°	399.5	444.0	488.6	533.2	577.8	622.3	666.9	711.5	765.2	818.9	872.6
62.5°	368.4	414.7	461.0	507.4	553.7	600.0	646.4	692.7	748.3	803.8	859.4
65°	336.8	384.7	432.6	480.4	528.3	576.2	624.0	671.9	729.3	786.7	844.2
67.5°	303.5	353.1	402.6	452.1	501.6	551.2	600.7	650.2	709.4	768.6	827.7
70°	273.1	323.8	374.4	425.0	475.6	526.3	576.9	627.5	688.1	748.7	809.3
72.5°	243.3	294.8	346.3	397.8	449.3	500.8	552.3	603.8	665.2	726.5	787.9
75°	214.6	266.5	318.4	370.4	422.3	474.2	526.2	578.1	640.1	702.2	764.2
77.5°	187.3	239.5	291.6	343.8	395.9	448.1	500.2	552.4	614.4	676.5	738.5
80°	162.2	214.1	266.0	318.0	369.9	421.8	473.8	525.7	587.4	649.1	710.8
82.5°	139.4	190.7	242.1	293.5	344.9	396.2	447.6	499.0	560.2	621.3	682.5
85°	119.6	170.0	220.4	270.7	321.1	371.5	421.9	472.3	532.7	593.1	653.5
87.5°	104.1	153.1	202.2	251.3	300.4	349.4	398.5	447.6	506.9	566.2	625.5
90°	95.4	142.6	189.8	237.1	284.3	331.5	378.7	425.9	483.9	541.8	599.8
92.5°	91.1	136.7	182.3	227.8	273.4	319.0	364.5	410.1	467.0	523.8	580.7
95°	88.2	131.8	175.4	218.9	262.5	306.1	349.7	393.3	449.3	505.3	561.3
97.5°	83.4	125.2	166.9	208.6	250.3	292.1	333.8	375.5	430.7	485.9	541.2
100°	80.3	119.9	159.5	199.2	238.8	278.4	318.1	357.7	412.0	466.4	520.7
102.5°	77.0	115.0	153.0	190.9	228.9	266.9	304.9	342.9	396.0	449.2	502.3
105°	72.4	108.0	143.7	179.4	215.1	250.7	286.4	322.1	374.4	426.6	478.9
107.5°	68.6	102.4	136.2	170.1	203.9	237.7	271.5	305.3	356.1	407.0	457.8
110°	64.2	95.9	127.5	159.1	190.7	222.4	254.0	285.6	335.1	384.6	434.1



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	59.6	88.9	118.2	147.6	176.9	206.2	235.5	264.8	313.1	361.4	409.7
115°	54.8	81.7	108.6	135.5	162.4	189.3	216.2	243.1	290.2	337.3	384.4
117.5°	50.0	74.4	98.9	123.4	147.9	172.3	196.8	221.3	266.9	312.4	358.0
120°	45.4	67.5	89.7	111.9	134.1	156.2	178.4	200.6	244.6	288.6	332.7
122.5°	40.7	60.6	80.5	100.3	120.2	140.1	159.9	179.8	222.1	264.4	306.6
125°	35.9	53.4	70.8	88.3	105.7	123.2	140.6	158.1	198.4	238.7	279.0
127.5°	30.4	45.1	59.8	74.6	89.3	104.0	118.7	133.4	171.4	209.4	247.4
130°	25.4	37.6	49.8	61.9	74.1	86.3	98.5	110.7	145.2	179.7	214.1
132.5°	20.5	30.3	40.1	49.8	59.6	69.4	79.1	88.9	120.0	151.1	182.1
135°	16.2	23.7	31.3	38.9	46.5	54.0	61.6	69.2	97.1	125.0	152.9
137.5°	12.6	18.5	24.3	30.1	35.9	41.8	47.6	53.4	78.1	102.8	127.5
140°	9.1	13.2	17.2	21.3	25.3	29.4	33.4	37.5	59.1	80.8	102.4
142.5°	6.9	9.9	12.9	15.8	18.8	21.8	24.7	27.7	46.1	64.6	83.0
145°	4.7	6.6	8.5	10.3	12.2	14.1	15.9	17.8	33.4	49.0	64.6
147.5°	3.6	4.9	6.2	7.6	8.9	10.2	11.5	12.8	25.3	37.8	50.4
150°	2.8	3.6	4.5	5.4	6.3	7.1	8.0	8.9	18.5	28.0	37.6
152.5°	2.3	3.0	3.6	4.3	4.9	5.6	6.2	6.9	13.8	20.7	27.7
155°	1.9	2.3	2.7	3.2	3.6	4.0	4.5	4.9	9.3	13.7	18.1
157.5°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	5.5	8.0	10.6
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.3	4.6	5.9
162.5°	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.7	2.3	3.0
165°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.2	0.4	0.7
167.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
170°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
172.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
175°	1.6	1.3	1.1	0.9	0.7	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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	906.7	907.6	908.5	909.3	910.2	911.1	911.5	912.0	912.4	912.8	913.3
5°	918.5	920.5	922.6	924.7	926.8	928.9	930.0	931.1	932.2	933.3	934.3
7.5°	927.6	931.1	934.5	937.9	941.3	944.7	946.8	948.9	950.9	953.0	955.1
10°	935.9	940.6	945.3	950.1	954.8	959.5	963.0	966.5	970.0	973.5	977.1
12.5°	940.9	947.4	953.9	960.3	966.8	973.3	978.2	983.2	988.1	993.1	998.0
15°	946.0	954.2	962.5	970.7	979.0	987.2	994.0	1000.8	1007.6	1014.4	1021.2
17.5°	951.3	961.8	972.4	982.9	993.5	1004.0	1013.3	1022.7	1032.0	1041.3	1050.7
20°	955.3	968.6	981.9	995.1	1008.4	1021.7	1033.1	1044.5	1056.0	1067.4	1078.8
22.5°	961.2	977.5	993.7	1010.0	1026.2	1042.5	1055.5	1068.4	1081.4	1094.3	1107.3
25°	964.6	984.1	1003.7	1023.2	1042.8	1062.3	1077.0	1091.7	1106.4	1121.1	1135.9
27.5°	967.8	990.7	1013.5	1036.3	1059.2	1082.0	1098.1	1114.3	1130.4	1146.6	1162.7
30°	969.8	995.6	1021.4	1047.2	1073.0	1098.8	1116.6	1134.4	1152.2	1170.0	1187.7
32.5°	969.8	998.5	1027.3	1056.1	1084.8	1113.6	1133.1	1152.7	1172.2	1191.8	1211.3
35°	970.9	1002.5	1034.0	1065.5	1097.0	1128.5	1149.9	1171.3	1192.7	1214.1	1235.6
37.5°	971.6	1005.7	1039.9	1074.0	1108.2	1142.3	1165.6	1188.9	1212.1	1235.4	1258.7
40°	971.8	1008.4	1045.1	1081.8	1118.4	1155.1	1180.2	1205.4	1230.5	1255.7	1280.8
42.5°	970.6	1009.6	1048.7	1087.8	1126.9	1166.0	1193.0	1220.0	1247.0	1274.0	1301.1
45°	967.3	1009.0	1050.7	1092.5	1134.2	1175.9	1205.0	1234.1	1263.2	1292.3	1321.4
47.5°	963.7	1007.6	1051.4	1095.2	1139.0	1182.8	1214.3	1245.8	1277.3	1308.8	1340.4
50°	959.3	1005.1	1051.0	1096.9	1142.8	1188.7	1222.5	1256.3	1290.2	1324.0	1357.8
52.5°	952.9	1000.7	1048.4	1096.2	1143.9	1191.7	1228.2	1264.6	1301.1	1337.5	1374.0
55°	945.0	994.8	1044.5	1094.2	1144.0	1193.7	1232.3	1271.0	1309.6	1348.3	1386.9
57.5°	936.6	988.4	1040.2	1092.1	1143.9	1195.7	1236.5	1277.4	1318.2	1359.0	1399.9
60°	926.3	979.9	1033.6	1087.3	1141.0	1194.7	1237.5	1280.3	1323.1	1365.9	1408.8
62.5°	914.9	970.5	1026.0	1081.6	1137.1	1192.7	1237.2	1281.6	1326.1	1370.6	1415.0
65°	901.6	959.0	1016.4	1073.9	1131.3	1188.7	1234.5	1280.3	1326.1	1371.9	1417.6
67.5°	886.9	946.1	1005.3	1064.4	1123.6	1182.8	1229.6	1276.4	1323.1	1369.9	1416.7
70°	869.9	930.5	991.1	1051.7	1112.3	1172.9	1220.6	1268.2	1315.9	1363.5	1411.2
72.5°	849.3	910.6	972.0	1033.4	1094.7	1156.1	1204.4	1252.7	1301.0	1349.3	1397.7
75°	826.2	888.3	950.3	1012.3	1074.4	1136.4	1185.0	1233.7	1282.3	1330.9	1379.6
77.5°	800.5	862.6	924.6	986.6	1048.7	1110.7	1159.1	1207.5	1256.0	1304.4	1352.8
80°	772.5	834.2	895.9	957.6	1019.3	1081.0	1129.0	1177.0	1225.0	1273.0	1320.9
82.5°	743.6	804.8	865.9	927.1	988.2	1049.4	1097.1	1144.7	1192.4	1240.0	1287.7
85°	713.9	774.2	834.6	895.0	955.4	1015.8	1062.2	1108.7	1155.1	1201.6	1248.0
87.5°	684.8	744.0	803.3	862.6	921.9	981.2	1027.0	1072.8	1118.6	1164.4	1210.1
90°	657.8	715.7	773.7	831.7	889.6	947.6	992.0	1036.3	1080.7	1125.0	1169.4
92.5°	637.6	694.4	751.3	808.2	865.0	921.9	965.1	1008.2	1051.4	1094.5	1137.7
95°	617.3	673.2	729.2	785.2	841.2	897.2	939.7	982.2	1024.7	1067.2	1109.7
97.5°	596.4	651.6	706.8	762.1	817.3	872.5	913.9	955.3	996.7	1038.1	1079.5
100°	575.1	629.4	683.8	738.1	792.5	846.8	886.9	927.0	967.0	1007.1	1047.2
102.5°	555.5	608.6	661.8	714.9	768.1	821.2	860.5	899.8	939.1	978.4	1017.7
105°	531.2	583.4	635.7	688.0	740.2	792.5	831.1	869.8	908.4	947.1	985.7
107.5°	508.6	559.5	610.3	661.1	712.0	762.8	800.8	838.8	876.8	914.8	952.7
110°	483.6	533.2	582.7	632.2	681.7	731.2	768.3	805.4	842.5	879.6	916.8



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	458.0	506.4	554.7	603.0	651.3	699.6	735.7	771.8	808.0	844.1	880.2
115°	431.5	478.6	525.7	572.8	619.9	667.0	702.1	737.3	772.4	807.5	842.7
117.5°	403.6	449.1	494.7	540.3	585.8	631.4	665.5	699.7	733.8	768.0	802.1
120°	376.7	420.7	464.7	508.8	552.8	596.8	629.5	662.2	695.0	727.7	760.4
122.5°	348.9	391.2	433.5	475.7	518.0	560.3	591.8	623.3	654.8	686.3	717.9
125°	319.3	359.6	399.9	440.2	480.5	520.8	551.0	581.2	611.4	641.6	671.7
127.5°	285.4	323.3	361.3	399.3	437.3	475.3	504.8	534.4	563.9	593.4	623.0
130°	248.6	283.1	317.6	352.0	386.5	421.0	450.7	480.5	510.2	540.0	569.7
132.5°	213.2	244.3	275.4	306.4	337.5	368.6	398.1	427.7	457.2	486.7	516.3
135°	180.8	208.6	236.5	264.4	292.3	320.2	348.7	377.3	405.8	434.4	462.9
137.5°	152.2	176.9	201.6	226.3	251.0	275.7	302.2	328.6	355.1	381.5	408.0
140°	124.0	145.7	167.3	188.9	210.6	232.2	256.0	279.8	303.7	327.5	351.3
142.5°	101.5	119.9	138.4	156.8	175.3	193.7	214.8	235.9	256.9	278.0	299.1
145°	80.2	95.7	111.3	126.9	142.5	158.1	176.3	194.5	212.8	231.0	249.2
147.5°	62.9	75.4	87.9	100.5	113.0	125.5	141.1	156.7	172.3	187.9	203.4
150°	47.1	56.7	66.2	75.8	85.3	94.9	107.9	120.8	133.8	146.7	159.7
152.5°	34.6	41.5	48.4	55.4	62.3	69.2	79.7	90.3	100.8	111.3	121.9
155°	22.5	26.9	31.3	35.7	40.1	44.5	53.0	61.4	69.9	78.3	86.8
157.5°	13.1	15.6	18.1	20.7	23.2	25.7	32.1	38.4	44.8	51.2	57.5
160°	7.2	8.6	9.9	11.2	12.5	13.8	17.9	21.9	26.0	30.1	34.1
162.5°	3.6	4.3	4.9	5.6	6.2	6.9	8.9	10.9	12.8	14.8	16.8
165°	0.9	1.1	1.3	1.6	1.8	2.0	2.8	3.5	4.3	5.1	5.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
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: P201360

CATALOG NUMBER: 4LBLEDD4-8-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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	913.7	914.1	914.6	915.0	914.0	913.0	912.0	911.0	910.1	909.1	908.1
5°	935.4	936.5	937.6	938.7	938.6	938.5	938.4	938.3	938.2	938.1	938.0
7.5°	957.2	959.2	961.3	963.4	963.6	963.8	964.1	964.3	964.5	964.7	965.0
10°	980.6	984.1	987.6	991.1	991.5	992.0	992.4	992.9	993.3	993.8	994.2
12.5°	1003.0	1007.9	1012.9	1017.8	1019.1	1020.4	1021.7	1023.0	1024.4	1025.7	1027.0
15°	1028.0	1034.8	1041.6	1048.4	1050.8	1053.2	1055.7	1058.1	1060.5	1062.9	1065.4
17.5°	1060.0	1069.3	1078.7	1088.0	1091.0	1093.9	1096.9	1099.8	1102.8	1105.7	1108.7
20°	1090.2	1101.7	1113.1	1124.5	1128.1	1131.7	1135.4	1139.0	1142.6	1146.2	1149.9
22.5°	1120.2	1133.2	1146.1	1159.1	1163.5	1167.9	1172.3	1176.7	1181.0	1185.4	1189.8
25°	1150.6	1165.3	1180.0	1194.7	1199.6	1204.6	1209.5	1214.4	1219.4	1224.3	1229.2
27.5°	1178.9	1195.0	1211.2	1227.3	1233.0	1238.7	1244.4	1250.1	1255.9	1261.6	1267.3
30°	1205.5	1223.3	1241.1	1258.9	1265.4	1271.9	1278.3	1284.8	1291.3	1297.8	1304.2
32.5°	1230.9	1250.4	1270.0	1289.5	1297.1	1304.7	1312.2	1319.8	1327.4	1335.0	1342.5
35°	1257.0	1278.4	1299.8	1321.2	1329.5	1337.9	1346.2	1354.6	1362.9	1371.3	1379.6
37.5°	1282.0	1305.2	1328.5	1351.8	1361.0	1370.2	1379.5	1388.7	1397.9	1407.1	1416.4
40°	1306.0	1331.1	1356.3	1381.4	1391.6	1401.8	1412.0	1422.2	1432.5	1442.7	1452.9
42.5°	1328.1	1355.1	1382.1	1409.1	1420.4	1431.7	1443.0	1454.3	1465.7	1477.0	1488.3
45°	1350.5	1379.6	1408.7	1437.8	1450.1	1462.4	1474.7	1487.0	1499.2	1511.5	1523.8
47.5°	1371.9	1403.4	1434.9	1466.4	1479.7	1493.0	1506.3	1519.6	1532.8	1546.1	1559.4
50°	1391.6	1425.5	1459.3	1493.1	1507.5	1521.9	1536.2	1550.6	1565.0	1579.4	1593.7
52.5°	1410.4	1446.9	1483.3	1519.8	1535.1	1550.3	1565.6	1580.8	1596.1	1611.3	1626.6
55°	1425.6	1464.2	1502.9	1541.5	1557.9	1574.2	1590.6	1606.9	1623.3	1639.6	1656.0
57.5°	1440.7	1481.5	1522.4	1563.2	1580.2	1597.2	1614.3	1631.3	1648.3	1665.3	1682.4
60°	1451.6	1494.4	1537.2	1580.0	1597.7	1615.4	1633.0	1650.7	1668.4	1686.1	1703.7
62.5°	1459.5	1504.0	1548.4	1592.9	1611.0	1629.1	1647.2	1665.3	1683.5	1701.6	1719.7
65°	1463.4	1509.2	1555.0	1600.8	1619.2	1637.7	1656.1	1674.6	1693.0	1711.5	1729.9
67.5°	1463.5	1510.2	1557.0	1603.8	1622.4	1640.9	1659.5	1678.0	1696.6	1715.1	1733.7
70°	1458.8	1506.5	1554.1	1601.8	1620.4	1638.9	1657.5	1676.0	1694.6	1713.1	1731.7
72.5°	1446.0	1494.3	1542.6	1590.9	1609.6	1628.2	1646.9	1665.6	1684.2	1702.9	1721.6
75°	1428.2	1476.8	1525.5	1574.1	1592.5	1611.0	1629.4	1647.9	1666.3	1684.8	1703.2
77.5°	1401.2	1449.7	1498.1	1546.5	1564.8	1583.2	1601.5	1619.8	1638.2	1656.5	1674.8
80°	1368.9	1416.9	1464.9	1512.9	1531.1	1549.3	1567.6	1585.8	1604.0	1622.2	1640.5
82.5°	1335.3	1383.0	1430.6	1478.3	1495.9	1513.4	1531.0	1548.6	1566.1	1583.7	1601.3
85°	1294.5	1340.9	1387.4	1433.8	1451.5	1469.2	1486.8	1504.5	1522.2	1539.9	1557.5
87.5°	1255.9	1301.7	1347.5	1393.3	1410.3	1427.3	1444.4	1461.4	1478.4	1495.4	1512.5
90°	1213.7	1258.1	1302.4	1346.8	1364.0	1381.3	1398.5	1415.8	1433.0	1450.3	1467.5
92.5°	1180.8	1224.0	1267.1	1310.3	1327.1	1343.9	1360.7	1377.5	1394.3	1411.1	1427.9
95°	1152.2	1194.7	1237.2	1279.7	1295.4	1311.1	1326.8	1342.5	1358.2	1373.9	1389.6
97.5°	1120.9	1162.3	1203.7	1245.1	1260.4	1275.6	1290.9	1306.1	1321.4	1336.6	1351.9
100°	1087.3	1127.3	1167.4	1207.5	1222.8	1238.0	1253.3	1268.6	1283.8	1299.1	1314.4
102.5°	1057.0	1096.3	1135.6	1174.9	1189.8	1204.8	1219.7	1234.6	1249.6	1264.5	1279.4
105°	1024.4	1063.0	1101.7	1140.3	1154.9	1169.5	1184.1	1198.7	1213.3	1227.9	1242.5
107.5°	990.7	1028.7	1066.7	1104.7	1119.1	1133.5	1147.9	1162.3	1176.6	1191.0	1205.4
110°	953.9	991.0	1028.1	1065.2	1079.3	1093.3	1107.4	1121.4	1135.5	1149.5	1163.6



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-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°	916.3	952.5	988.6	1024.7	1038.4	1052.1	1065.9	1079.6	1093.3	1107.0	1120.8
115°	877.8	912.9	948.1	983.2	996.4	1009.6	1022.7	1035.9	1049.1	1062.3	1075.4
117.5°	836.3	870.4	904.6	938.7	951.4	964.2	976.9	989.7	1002.4	1015.2	1027.9
120°	793.1	825.9	858.6	891.3	903.8	916.3	928.9	941.4	953.9	966.4	979.0
122.5°	749.4	780.9	812.4	843.9	856.0	868.1	880.1	892.2	904.3	916.4	928.4
125°	701.9	732.1	762.3	792.5	804.0	815.5	827.1	838.6	850.1	861.6	873.2
127.5°	652.5	682.0	711.6	741.1	752.0	762.8	773.7	784.6	795.4	806.3	817.2
130°	599.5	629.2	659.0	688.7	699.0	709.3	719.7	730.0	740.3	750.6	761.0
132.5°	545.8	575.3	604.9	634.4	644.9	655.5	666.0	676.6	687.1	697.7	708.2
135°	491.5	520.0	548.6	577.1	587.2	597.3	607.4	617.5	627.6	637.7	647.8
137.5°	434.4	460.9	487.3	513.8	524.0	534.2	544.4	554.6	564.9	575.1	585.3
140°	375.1	399.0	422.8	446.6	457.1	467.7	478.2	488.8	499.3	509.9	520.4
142.5°	320.2	341.2	362.3	383.4	394.2	404.9	415.7	426.4	437.2	447.9	458.7
145°	267.4	285.7	303.9	322.1	333.3	344.5	355.7	366.9	378.1	389.3	400.5
147.5°	219.0	234.6	250.2	265.8	277.0	288.2	299.4	310.6	321.8	333.0	344.2
150°	172.6	185.6	198.5	211.5	222.7	233.9	245.1	256.3	267.5	278.7	289.9
152.5°	132.4	142.9	153.5	164.0	174.5	185.1	195.6	206.2	216.7	227.3	237.8
155°	95.2	103.7	112.1	120.6	129.9	139.2	148.6	157.9	167.2	176.5	185.9
157.5°	63.9	70.3	76.6	83.0	91.0	99.0	107.0	115.0	123.1	131.1	139.1
160°	38.2	42.3	46.3	50.4	56.9	63.4	69.8	76.3	82.8	89.3	95.7
162.5°	18.8	20.7	22.7	24.7	29.1	33.5	37.9	42.3	46.6	51.0	55.4
165°	6.6	7.4	8.1	8.9	11.5	14.2	16.8	19.4	22.1	24.7	27.3
167.5°	1.3	1.6	1.8	2.0	3.0	4.0	5.0	6.0	6.9	7.9	8.9
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: P201360

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	887.4	887.4
2.5°	907.1	906.1
5°	937.9	937.8
7.5°	965.2	965.4
10°	994.7	995.1
12.5°	1028.3	1029.6
15°	1067.8	1070.2
17.5°	1111.6	1114.6
20°	1153.5	1157.1
22.5°	1194.2	1198.6
25°	1234.2	1239.1
27.5°	1273.0	1278.7
30°	1310.7	1317.2
32.5°	1350.1	1357.7
35°	1388.0	1396.3
37.5°	1425.6	1434.8
40°	1463.1	1473.3
42.5°	1499.6	1510.9
45°	1536.1	1548.4
47.5°	1572.7	1586.0
50°	1608.1	1622.5
52.5°	1641.8	1657.1
55°	1672.3	1688.7
57.5°	1699.4	1716.4
60°	1721.4	1739.1
62.5°	1737.8	1755.9
65°	1748.4	1766.8
67.5°	1752.2	1770.8
70°	1750.2	1768.8
72.5°	1740.2	1758.9
75°	1721.7	1740.1
77.5°	1693.2	1711.5
80°	1658.7	1676.9
82.5°	1618.8	1636.4
85°	1575.2	1592.9
87.5°	1529.5	1546.5
90°	1484.8	1502.0
92.5°	1444.7	1461.5
95°	1405.3	1421.0
97.5°	1367.1	1382.4
100°	1329.6	1344.9
102.5°	1294.4	1309.3
105°	1257.1	1271.7
107.5°	1219.8	1234.2
110°	1177.6	1191.7



TEST NUMBER: P201360

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1134.5	1148.2
115°	1088.6	1101.8
117.5°	1040.7	1053.4
120°	991.5	1004.0
122.5°	940.5	952.6
125°	884.7	896.2
127.5°	828.0	838.9
130°	771.3	781.6
132.5°	718.8	729.3
135°	657.9	668.0
137.5°	595.5	605.7
140°	531.0	541.5
142.5°	469.4	480.2
145°	411.7	422.9
147.5°	355.4	366.6
150°	301.1	312.3
152.5°	248.4	258.9
155°	195.2	204.5
157.5°	147.1	155.1
160°	102.2	108.7
162.5°	59.8	64.2
165°	30.0	32.6
167.5°	9.9	10.9
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)