

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: P201348

Luminaire Tested: **4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28236)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U
Description: 4 ft. Low Bay Linear, 9000 lm, Frst Asym lens, 3.5K
Light Source: (308) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
OT50W0980CC, OT50W0600CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9507.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 2 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

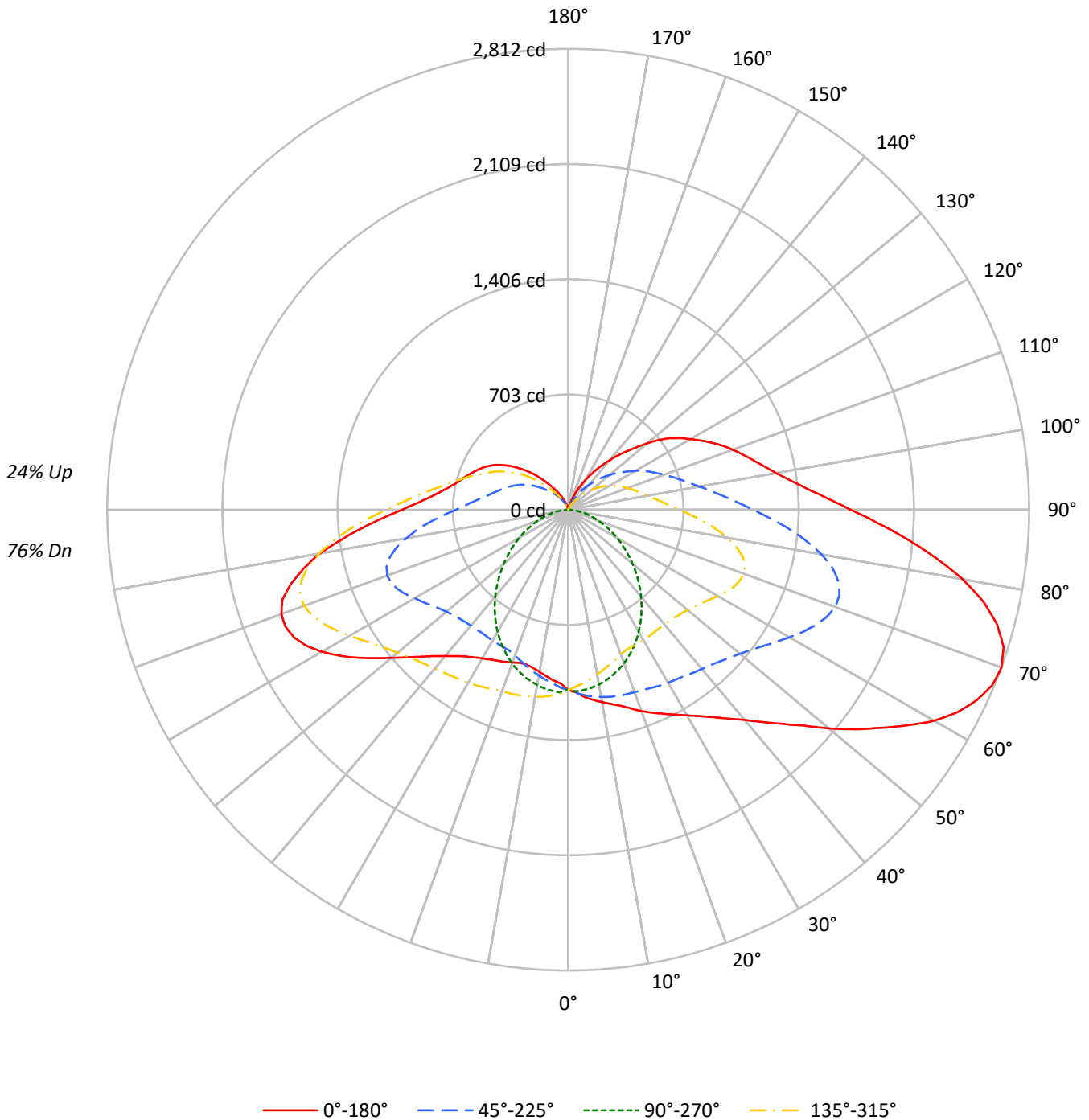
Input Watts (W): 72.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

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	0
RCR																		
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	61	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	46	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	36	42	37	33	29
4	70	55	45	37	65	52	43	35	47	39	32	41	35	29	37	31	27	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	24	32	27	22	19
6	58	43	33	26	54	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	29	23	18	26	20	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	13	10
10	43	29	21	15	41	28	20	15	25	18	13	23	17	12	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17720	17720	17720	17720
5°	16730	17786	15233	17865
10°	15985	17558	13482	17621
15°	15495	17200	12235	17264
20°	15432	16779	11706	16812
25°	15455	16209	11435	16227
30°	15684	15532	11335	15550
35°	16242	14765	11483	14782
40°	17230	13927	11981	13948
45°	18753	13023	12863	13023
50°	20947	12093	14194	12117
55°	23462	11127	15918	11177
60°	26298	10155	17693	10215
65°	28563	9210	19162	9245
70°	29963	8018	19835	8096
75°	29857	6950	19303	7101
80°	28116	5590	17721	5733
85°	25202	3664	15260	3896



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.1
10°-20°	304.6	3.2
20°-30°	490.9	5.2
30°-40°	664.8	7.0
40°-50°	853.0	9.0
50°-60°	1089.8	11.5
60°-70°	1330.9	14.0
70°-80°	1360.4	14.3
80°-90°	1066.3	11.2
90°-100°	744.5	7.8
100°-110°	554.9	5.8
110°-120°	415.1	4.4
120°-130°	281.9	3.0
130°-140°	156.1	1.6
140°-150°	67.2	0.7
150°-160°	20.1	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	900.0	9.5
0°-40°	1564.8	16.5
0°-60°	3507.6	36.9
0°-90°	7265.3	76.4
90°-120°	1714.5	18.0
90°-150°	2219.8	23.3
90°-180°	2242.0	23.6
0°-180°	9507.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1100	1100	1100	1100	1100	
5°	1147	1105	1044	1110	1147	111
15°	1239	1045	978	1049	1239	354
25°	1374	934	1017	935	1374	639
35°	1546	778	1093	779	1546	978
45°	1848	601	1268	601	1848	1443
55°	2321	426	1574	427	2321	2090
65°	2750	268	1845	270	2750	2712
75°	2709	133	1751	136	2709	2833
85°	2077	32	1258	34	2077	1772
90°	1722	0	1012	1	1722	948
95°	1463	0	851	0	1463	1161
105°	1168	0	684	1	1168	1240
115°	967	0	592	1	967	961
125°	760	0	473	1	760	679
135°	503	0	316	1	503	395
145°	296	0	167	1	296	189
155°	132	0	75	2	132	64
165°	21	0	13	2	21	8
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1116.4	1116.2	1116.0	1115.8	1115.6	1115.3	1115.1	1114.9	1114.7	1114.5	1115.0
5°	1147.0	1145.9	1144.8	1143.7	1142.6	1141.6	1140.5	1139.4	1138.3	1137.2	1137.1
7.5°	1170.7	1169.3	1167.9	1166.4	1165.0	1163.6	1162.2	1160.7	1159.3	1157.9	1156.9
10°	1191.5	1189.6	1187.8	1185.9	1184.0	1182.2	1180.3	1178.4	1176.6	1174.7	1173.1
12.5°	1214.2	1212.0	1209.8	1207.6	1205.4	1203.2	1201.0	1198.8	1196.6	1194.4	1191.7
15°	1238.8	1236.2	1233.6	1230.9	1228.3	1225.7	1223.1	1220.4	1217.8	1215.2	1210.9
17.5°	1271.4	1267.7	1264.0	1260.2	1256.5	1252.8	1249.1	1245.3	1241.6	1237.9	1231.5
20°	1307.9	1303.0	1298.0	1293.1	1288.2	1283.2	1278.3	1273.4	1268.4	1263.5	1254.7
22.5°	1340.5	1334.8	1329.1	1323.4	1317.7	1312.0	1306.3	1300.6	1294.9	1289.2	1278.1
25°	1374.1	1367.8	1361.6	1355.3	1349.1	1342.8	1336.6	1330.3	1324.1	1317.8	1304.6
27.5°	1409.6	1402.6	1395.6	1388.5	1381.5	1374.5	1367.5	1360.4	1353.4	1346.4	1331.3
30°	1449.1	1440.9	1432.7	1424.4	1416.2	1408.0	1399.8	1391.5	1383.3	1375.1	1357.8
32.5°	1493.5	1484.3	1475.1	1465.9	1456.7	1447.4	1438.2	1429.0	1419.8	1410.6	1390.2
35°	1545.8	1534.5	1523.2	1511.9	1500.6	1489.4	1478.1	1466.8	1455.5	1444.2	1421.3
37.5°	1606.1	1593.2	1580.2	1567.3	1554.3	1541.4	1528.4	1515.5	1502.5	1489.6	1463.4
40°	1675.2	1660.4	1645.6	1630.8	1616.0	1601.1	1586.3	1571.5	1556.7	1541.9	1511.5
42.5°	1756.1	1739.1	1722.1	1705.1	1688.1	1671.1	1654.1	1637.1	1620.1	1603.1	1567.9
45°	1847.9	1829.3	1810.6	1792.0	1773.3	1754.7	1736.0	1717.4	1698.7	1680.1	1638.9
47.5°	1950.6	1929.0	1907.4	1885.8	1864.2	1842.5	1820.9	1799.3	1777.7	1756.1	1709.4
50°	2075.9	2051.0	2026.1	2001.2	1976.3	1951.5	1926.6	1901.7	1876.8	1851.9	1798.0
52.5°	2201.3	2173.9	2146.5	2119.0	2091.6	2064.2	2036.8	2009.3	1981.9	1954.5	1893.4
55°	2320.7	2292.3	2263.9	2235.5	2207.1	2178.7	2150.3	2121.9	2093.5	2065.1	1996.8
57.5°	2450.1	2420.5	2390.9	2361.2	2331.6	2302.0	2272.4	2242.7	2213.1	2183.5	2107.7
60°	2576.4	2545.5	2514.5	2483.6	2452.7	2421.7	2390.8	2359.9	2328.9	2298.0	2215.6
62.5°	2677.1	2646.5	2615.9	2585.3	2554.7	2524.1	2493.5	2462.9	2432.3	2401.7	2314.2
65°	2750.1	2721.1	2692.2	2663.2	2634.3	2605.3	2576.4	2547.4	2518.5	2489.5	2397.9
67.5°	2799.5	2771.6	2743.8	2715.9	2688.1	2660.2	2632.4	2604.5	2576.7	2548.8	2455.3
70°	2812.3	2785.9	2759.4	2733.0	2706.6	2680.1	2653.7	2627.3	2600.8	2574.4	2481.0
72.5°	2784.7	2759.4	2734.0	2708.7	2683.4	2658.0	2632.7	2607.4	2582.0	2556.7	2465.4
75°	2708.7	2684.8	2660.9	2637.0	2613.1	2589.1	2565.2	2541.3	2517.4	2493.5	2406.3
77.5°	2594.2	2571.4	2548.6	2525.8	2503.0	2480.1	2457.3	2434.5	2411.7	2388.9	2307.1
80°	2443.2	2421.6	2400.0	2378.4	2356.8	2335.1	2313.5	2291.9	2270.3	2248.7	2173.2
82.5°	2264.5	2244.5	2224.6	2204.6	2184.6	2164.7	2144.7	2124.7	2104.8	2084.8	2016.0
85°	2076.9	2058.1	2039.4	2020.6	2001.9	1983.1	1964.4	1945.6	1926.9	1908.1	1846.5
87.5°	1891.3	1873.8	1856.2	1838.7	1821.1	1803.6	1786.0	1768.5	1750.9	1733.4	1678.0
90°	1722.5	1706.2	1689.8	1673.5	1657.2	1640.8	1624.5	1608.2	1591.8	1575.5	1525.6
92.5°	1581.4	1566.0	1550.7	1535.3	1520.0	1504.6	1489.3	1473.9	1458.6	1443.2	1397.6
95°	1462.9	1448.3	1433.7	1419.1	1404.5	1390.0	1375.4	1360.8	1346.2	1331.6	1289.3
97.5°	1366.2	1352.0	1337.9	1323.7	1309.6	1295.4	1281.3	1267.1	1253.0	1238.8	1198.6
100°	1287.2	1273.3	1259.4	1245.4	1231.5	1217.6	1203.7	1189.7	1175.8	1161.9	1123.1
102.5°	1223.1	1209.9	1196.8	1183.6	1170.4	1157.3	1144.1	1130.9	1117.8	1104.6	1065.8
105°	1167.8	1154.0	1140.2	1126.3	1112.5	1098.7	1084.9	1071.0	1057.2	1043.4	1006.2
107.5°	1117.4	1103.6	1089.8	1076.0	1062.2	1048.3	1034.5	1020.7	1006.9	993.1	956.7
110°	1069.1	1055.3	1041.5	1027.6	1013.8	1000.0	986.2	972.3	958.5	944.7	909.1



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1019.7	1005.9	992.1	978.2	964.4	950.6	936.8	922.9	909.1	895.3	860.8
115°	967.4	953.8	940.2	926.6	913.0	899.4	885.8	872.2	858.6	845.0	812.1
117.5°	913.1	900.2	887.2	874.3	861.3	848.4	835.4	822.5	809.5	796.6	765.1
120°	861.8	849.6	837.4	825.3	813.1	800.9	788.7	776.6	764.4	752.2	721.5
122.5°	813.4	801.6	789.7	777.9	766.0	754.2	742.3	730.5	718.6	706.8	676.6
125°	760.1	748.5	736.9	725.2	713.6	702.0	690.4	678.7	667.1	655.5	626.8
127.5°	699.9	688.6	677.3	666.0	654.7	643.4	632.1	620.8	609.5	598.2	572.1
130°	630.8	620.5	610.2	599.9	589.6	579.2	568.9	558.6	548.3	538.0	514.9
132.5°	562.7	554.0	545.4	536.7	528.0	519.4	510.7	502.0	493.4	484.7	463.9
135°	503.4	495.9	488.5	481.0	473.6	466.1	458.7	451.2	443.8	436.3	417.2
137.5°	449.1	442.3	435.5	428.7	421.9	415.1	408.3	401.5	394.7	387.9	370.4
140°	395.8	389.7	383.5	377.4	371.3	365.1	359.0	352.9	346.7	340.6	324.8
142.5°	343.5	338.2	333.0	327.7	322.4	317.2	311.9	306.6	301.4	296.1	282.1
145°	296.1	291.5	286.9	282.3	277.7	273.1	268.5	263.9	259.3	254.7	242.3
147.5°	250.7	246.5	242.4	238.2	234.0	229.9	225.7	221.5	217.4	213.2	202.7
150°	206.3	203.0	199.7	196.4	193.1	189.9	186.6	183.3	180.0	176.7	167.6
152.5°	167.8	164.9	162.1	159.2	156.4	153.5	150.7	147.8	145.0	142.1	134.3
155°	132.3	129.9	127.5	125.1	122.7	120.2	117.8	115.4	113.0	110.6	103.8
157.5°	98.7	96.7	94.7	92.8	90.8	88.8	86.8	84.9	82.9	80.9	75.4
160°	68.1	66.5	64.8	63.2	61.5	59.9	58.2	56.6	54.9	53.3	49.4
162.5°	40.5	39.3	38.1	36.9	35.7	34.4	33.2	32.0	30.8	29.6	27.4
165°	20.7	20.0	19.4	18.7	18.1	17.4	16.8	16.1	15.5	14.8	13.6
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: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1115.6	1116.1	1116.7	1117.2	1117.8	1118.3	1118.9	1119.4	1117.4	1115.4	1113.5
5°	1137.0	1136.9	1136.8	1136.6	1136.5	1136.4	1136.3	1136.2	1133.0	1129.8	1126.7
7.5°	1155.9	1154.9	1153.9	1153.0	1152.0	1151.0	1150.0	1149.0	1144.7	1140.4	1136.2
10°	1171.4	1169.8	1168.1	1166.5	1164.8	1163.2	1161.5	1159.9	1154.2	1148.5	1142.8
12.5°	1188.9	1186.2	1183.5	1180.7	1178.0	1175.3	1172.5	1169.8	1162.4	1155.1	1147.7
15°	1206.6	1202.4	1198.1	1193.8	1189.5	1185.3	1181.0	1176.7	1167.8	1158.9	1150.0
17.5°	1225.2	1218.8	1212.4	1206.1	1199.7	1193.3	1187.0	1180.6	1170.2	1159.8	1149.3
20°	1246.0	1237.2	1228.4	1219.7	1210.9	1202.1	1193.4	1184.6	1172.2	1159.8	1147.4
22.5°	1267.0	1256.0	1244.9	1233.8	1222.7	1211.7	1200.6	1189.5	1174.7	1159.9	1145.1
25°	1291.5	1278.3	1265.2	1252.0	1238.9	1225.7	1212.6	1199.4	1181.5	1163.6	1145.8
27.5°	1316.1	1301.0	1285.9	1270.7	1255.6	1240.5	1225.3	1210.2	1188.8	1167.4	1146.0
30°	1340.4	1323.1	1305.8	1288.4	1271.1	1253.8	1236.4	1219.1	1194.2	1169.3	1144.4
32.5°	1369.8	1349.4	1329.0	1308.6	1288.2	1267.8	1247.4	1227.0	1198.7	1170.4	1142.1
35°	1398.4	1375.4	1352.5	1329.6	1306.7	1283.7	1260.8	1237.9	1205.9	1173.8	1141.8
37.5°	1437.2	1411.0	1384.8	1358.5	1332.3	1306.1	1279.9	1253.7	1217.7	1181.7	1145.8
40°	1481.1	1450.8	1420.4	1390.0	1359.6	1329.3	1298.9	1268.5	1228.9	1189.3	1149.7
42.5°	1532.7	1497.5	1462.3	1427.0	1391.8	1356.6	1321.4	1286.2	1242.6	1198.9	1155.3
45°	1597.6	1556.4	1515.1	1473.9	1432.6	1391.4	1350.1	1308.9	1260.8	1212.6	1164.5
47.5°	1662.7	1615.9	1569.2	1522.5	1475.8	1429.0	1382.3	1335.6	1282.4	1229.2	1176.0
50°	1744.2	1690.3	1636.5	1582.6	1528.8	1474.9	1421.1	1367.2	1308.6	1250.0	1191.5
52.5°	1832.3	1771.2	1710.1	1649.1	1588.0	1526.9	1465.8	1404.7	1340.2	1275.7	1211.2
55°	1928.4	1860.1	1791.8	1723.4	1655.1	1586.8	1518.4	1450.1	1379.0	1307.9	1236.9
57.5°	2031.9	1956.1	1880.3	1804.6	1728.8	1653.0	1577.2	1501.4	1423.1	1344.8	1266.5
60°	2133.3	2050.9	1968.5	1886.2	1803.8	1721.4	1639.1	1556.7	1471.0	1385.4	1299.7
62.5°	2226.7	2139.1	2051.6	1964.1	1876.6	1789.0	1701.5	1614.0	1520.9	1427.8	1334.6
65°	2306.3	2214.8	2123.2	2031.6	1940.0	1848.5	1756.9	1665.3	1565.2	1465.0	1364.9
67.5°	2361.9	2268.4	2175.0	2081.5	1988.1	1894.6	1801.2	1707.7	1601.3	1494.9	1388.5
70°	2387.5	2294.1	2200.6	2107.2	2013.7	1920.3	1826.8	1733.4	1622.3	1511.2	1400.1
72.5°	2374.2	2282.9	2191.7	2100.4	2009.2	1917.9	1826.7	1735.4	1621.9	1508.4	1394.8
75°	2319.1	2231.9	2144.7	2057.5	1970.3	1883.1	1795.9	1708.7	1595.3	1481.9	1368.5
77.5°	2225.3	2143.4	2061.6	1979.8	1898.0	1816.1	1734.3	1652.5	1542.0	1431.6	1321.1
80°	2097.8	2022.3	1946.8	1871.4	1795.9	1720.4	1645.0	1569.5	1464.4	1359.4	1254.3
82.5°	1947.3	1878.5	1809.7	1741.0	1672.2	1603.4	1534.7	1465.9	1368.1	1270.2	1172.4
85°	1784.8	1723.2	1661.6	1599.9	1538.3	1476.7	1415.0	1353.4	1263.7	1174.0	1084.2
87.5°	1622.6	1567.2	1511.8	1456.5	1401.1	1345.7	1290.3	1234.9	1153.6	1072.3	991.1
90°	1475.7	1425.8	1375.9	1325.9	1276.0	1226.1	1176.2	1126.3	1052.4	978.5	904.5
92.5°	1351.9	1306.3	1260.7	1215.0	1169.4	1123.8	1078.1	1032.5	965.3	898.0	830.8
95°	1246.9	1204.6	1162.3	1119.9	1077.6	1035.3	992.9	950.6	889.0	827.3	765.7
97.5°	1158.3	1118.1	1077.8	1037.6	997.3	957.1	916.8	876.6	819.7	762.8	705.8
100°	1084.2	1045.4	1006.6	967.7	928.9	890.1	851.2	812.4	759.3	706.2	653.1
102.5°	1027.0	988.1	949.3	910.5	871.7	832.8	794.0	755.2	705.2	655.2	605.1
105°	969.0	931.9	894.7	857.5	820.3	783.2	746.0	708.8	660.9	612.9	565.0
107.5°	920.3	883.8	847.4	811.0	774.6	738.1	701.7	665.3	619.5	573.6	527.8
110°	873.4	837.8	802.1	766.5	730.8	695.2	659.5	623.9	579.8	535.7	491.6



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	826.2	791.7	757.1	722.6	688.0	653.5	618.9	584.4	542.2	499.9	457.7
115°	779.2	746.3	713.4	680.4	647.5	614.6	581.7	548.8	508.6	468.3	428.1
117.5°	733.6	702.2	670.7	639.2	607.7	576.3	544.8	513.3	475.0	436.7	398.5
120°	690.8	660.1	629.4	598.6	567.9	537.2	506.5	475.8	439.8	403.8	367.9
122.5°	646.5	616.3	586.1	556.0	525.8	495.6	465.5	435.3	402.2	369.1	335.9
125°	598.0	569.3	540.5	511.8	483.0	454.3	425.5	396.8	366.2	335.6	305.0
127.5°	546.0	519.9	493.8	467.7	441.6	415.5	389.4	363.3	334.9	306.5	278.1
130°	491.7	468.6	445.4	422.3	399.1	376.0	352.8	329.7	303.5	277.3	251.1
132.5°	443.0	422.2	401.3	380.5	359.6	338.8	317.9	297.1	273.0	248.9	224.7
135°	398.1	379.1	360.0	340.9	321.8	302.8	283.7	264.6	242.7	220.7	198.8
137.5°	352.8	335.3	317.7	300.2	282.6	265.1	247.5	230.0	210.4	190.7	171.1
140°	309.0	293.2	277.4	261.6	245.8	230.0	214.2	198.4	180.9	163.3	145.8
142.5°	268.0	254.0	240.0	225.9	211.9	197.9	183.8	169.8	154.3	138.9	123.4
145°	229.9	217.5	205.1	192.7	180.3	167.9	155.5	143.1	129.6	116.1	102.6
147.5°	192.2	181.6	171.1	160.6	150.1	139.5	129.0	118.5	107.0	95.5	83.9
150°	158.5	149.4	140.3	131.2	122.1	113.0	103.9	94.8	85.4	75.9	66.5
152.5°	126.5	118.8	111.0	103.2	95.4	87.7	79.9	72.1	64.7	57.4	50.0
155°	97.0	90.2	83.4	76.6	69.8	63.0	56.2	49.4	44.3	39.3	34.2
157.5°	69.9	64.5	59.0	53.5	48.0	42.6	37.1	31.6	28.3	25.0	21.7
160°	45.4	41.5	37.5	33.6	29.6	25.7	21.7	17.8	15.8	13.8	11.9
162.5°	25.2	23.0	20.8	18.7	16.5	14.3	12.1	9.9	8.8	7.7	6.6
165°	12.4	11.2	10.0	8.7	7.5	6.3	5.1	3.9	3.5	3.0	2.6
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: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1111.5	1109.5	1107.5	1105.6	1103.6	1101.6	1102.5	1103.4	1104.2	1105.1	1106.0
5°	1123.5	1120.3	1117.1	1114.0	1110.8	1107.6	1107.3	1106.9	1106.6	1106.3	1105.9
7.5°	1131.9	1127.6	1123.3	1119.1	1114.8	1110.5	1108.9	1107.2	1105.6	1103.9	1102.3
10°	1137.1	1131.3	1125.6	1119.9	1114.2	1108.5	1105.7	1102.8	1100.0	1097.1	1094.3
12.5°	1140.4	1133.0	1125.7	1118.3	1111.0	1103.6	1099.4	1095.3	1091.1	1086.9	1082.8
15°	1141.1	1132.3	1123.4	1114.5	1105.6	1096.7	1091.0	1085.3	1079.6	1073.9	1068.2
17.5°	1138.9	1128.5	1118.1	1107.6	1097.2	1086.8	1079.7	1072.6	1065.4	1058.3	1051.2
20°	1135.0	1122.6	1110.2	1097.8	1085.4	1073.0	1064.6	1056.1	1047.7	1039.2	1030.8
22.5°	1130.3	1115.4	1100.6	1085.8	1071.0	1056.2	1046.2	1036.2	1026.3	1016.3	1006.3
25°	1127.9	1110.0	1092.1	1074.3	1056.4	1038.5	1026.9	1015.2	1003.6	992.0	980.3
27.5°	1124.6	1103.3	1081.9	1060.5	1039.1	1017.7	1004.4	991.2	977.9	964.6	951.4
30°	1119.5	1094.6	1069.7	1044.8	1019.9	995.0	980.0	965.0	949.9	934.9	919.9
32.5°	1113.8	1085.5	1057.2	1028.9	1000.6	972.3	955.3	938.3	921.3	904.3	887.3
35°	1109.8	1077.7	1045.7	1013.7	981.6	949.6	930.5	911.4	892.4	873.3	854.2
37.5°	1109.8	1073.8	1037.8	1001.9	965.9	929.9	908.3	886.7	865.1	843.5	821.8
40°	1110.1	1070.5	1030.9	991.3	951.7	912.1	887.5	863.0	838.4	813.8	789.3
42.5°	1111.6	1068.0	1024.3	980.7	937.0	893.4	866.0	838.6	811.1	783.7	756.3
45°	1116.3	1068.2	1020.0	971.9	923.7	875.6	845.1	814.6	784.1	753.6	723.2
47.5°	1122.8	1069.6	1016.4	963.2	910.0	856.8	823.5	790.1	756.8	723.4	690.1
50°	1132.9	1074.3	1015.7	957.2	898.6	840.0	803.6	767.2	730.8	694.4	657.9
52.5°	1146.7	1082.3	1017.8	953.3	888.8	824.3	784.7	745.1	705.5	665.9	626.3
55°	1165.8	1094.7	1023.6	952.6	881.5	810.4	767.6	724.9	682.1	639.3	596.6
57.5°	1188.2	1109.8	1031.5	953.2	874.9	796.6	750.8	704.9	659.1	613.2	567.4
60°	1214.1	1128.4	1042.8	957.1	871.5	785.8	736.7	687.5	638.4	589.2	540.1
62.5°	1241.5	1148.4	1055.3	962.1	869.0	775.9	723.7	671.5	619.3	567.1	514.8
65°	1264.7	1164.6	1064.4	964.3	864.1	764.0	708.9	653.9	598.8	543.8	488.7
67.5°	1282.1	1175.8	1069.4	963.0	856.6	750.2	692.6	635.0	577.5	519.9	462.3
70°	1289.0	1177.8	1066.7	955.6	844.5	733.4	673.5	613.6	553.8	493.9	434.0
72.5°	1281.3	1167.8	1054.3	940.7	827.2	713.7	652.7	591.7	530.8	469.8	408.8
75°	1255.1	1141.6	1028.2	914.8	801.4	688.0	626.4	564.7	503.1	441.5	379.8
77.5°	1210.7	1100.2	989.8	879.3	768.9	658.4	596.9	535.3	473.8	412.3	350.7
80°	1149.2	1044.2	939.1	834.0	729.0	623.9	563.2	502.6	441.9	381.3	320.6
82.5°	1074.6	976.7	878.9	781.1	683.2	585.4	526.2	466.9	407.7	348.5	289.2
85°	994.5	904.8	815.1	725.3	635.6	545.9	488.8	431.6	374.5	317.3	260.2
87.5°	909.8	828.5	747.2	666.0	584.7	503.4	448.8	394.2	339.5	284.9	230.3
90°	830.6	756.7	682.8	608.8	534.9	461.0	409.8	358.6	307.3	256.1	204.9
92.5°	763.6	696.3	629.1	561.9	494.6	427.4	379.9	332.4	284.9	237.4	190.0
95°	704.0	642.4	580.7	519.1	457.4	395.8	351.8	307.8	263.9	219.9	175.9
97.5°	648.9	592.0	535.1	478.1	421.2	364.3	323.8	283.3	242.9	202.4	161.9
100°	600.0	547.0	493.9	440.8	387.7	334.6	297.4	260.2	223.1	185.9	148.7
102.5°	555.1	505.1	455.1	405.0	355.0	305.0	271.1	237.2	203.3	169.4	135.6
105°	517.1	469.1	421.2	373.3	325.3	277.4	246.6	215.8	184.9	154.1	123.3
107.5°	481.9	436.1	390.2	344.4	298.5	252.7	224.6	196.5	168.5	140.4	112.3
110°	447.5	403.4	359.3	315.2	271.1	227.0	201.8	176.6	151.3	126.1	100.9



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	415.5	373.2	331.0	288.8	246.5	204.3	181.6	158.9	136.2	113.5	90.8
115°	387.8	347.6	307.3	267.1	226.8	186.6	165.9	145.1	124.4	103.7	82.9
117.5°	360.2	321.9	283.6	245.4	207.1	168.8	150.0	131.3	112.5	93.8	75.0
120°	331.9	295.9	259.9	224.0	188.0	152.0	135.1	118.2	101.3	84.4	67.6
122.5°	302.8	269.7	236.6	203.4	170.3	137.2	122.0	106.7	91.5	76.2	61.0
125°	274.4	243.8	213.2	182.6	152.0	121.4	107.9	94.4	80.9	67.4	54.0
127.5°	249.7	221.2	192.8	164.4	136.0	107.6	95.6	83.7	71.7	59.8	47.8
130°	224.9	198.6	172.4	146.2	120.0	93.8	83.4	73.0	62.5	52.1	41.7
132.5°	200.6	176.5	152.4	128.2	104.1	80.0	71.1	62.2	53.3	44.4	35.6
135°	176.8	154.9	132.9	111.0	89.0	67.1	59.6	52.2	44.7	37.3	29.8
137.5°	151.5	131.8	112.2	92.6	72.9	53.3	47.4	41.5	35.5	29.6	23.7
140°	128.2	110.7	93.1	75.6	58.0	40.5	36.0	31.5	27.0	22.5	18.0
142.5°	107.9	92.5	77.0	61.5	46.1	30.6	27.2	23.8	20.4	17.0	13.6
145°	89.1	75.7	62.2	48.7	35.2	21.7	19.3	16.9	14.5	12.1	9.6
147.5°	72.4	60.9	49.4	37.8	26.3	14.8	13.2	11.5	9.9	8.2	6.6
150°	57.1	47.6	38.2	28.8	19.3	9.9	8.8	7.7	6.6	5.5	4.4
152.5°	42.7	35.3	28.0	20.6	13.3	5.9	5.2	4.6	3.9	3.3	2.6
155°	29.2	24.1	19.1	14.0	9.0	3.9	3.5	3.0	2.6	2.2	1.7
157.5°	18.4	15.2	11.9	8.6	5.3	2.0	1.8	1.6	1.3	1.1	0.9
160°	9.9	7.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.2	1.7	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: P201348

CATALOG NUMBER: 4LBLELD4-9-ASYMF-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°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1106.9	1107.7	1108.6	1109.5	1106.9	1104.2	1101.6	1099.0	1096.3	1093.7	1091.1
5°	1105.6	1105.3	1104.9	1104.6	1101.1	1097.6	1094.1	1090.6	1087.0	1083.5	1080.0
7.5°	1100.6	1099.0	1097.3	1095.7	1091.3	1086.9	1082.5	1078.1	1073.8	1069.4	1065.0
10°	1091.4	1088.6	1085.7	1082.9	1077.9	1072.8	1067.8	1062.7	1057.7	1052.6	1047.6
12.5°	1078.6	1074.4	1070.3	1066.1	1060.5	1054.9	1049.3	1043.7	1038.2	1032.6	1027.0
15°	1062.5	1056.8	1051.1	1045.4	1039.6	1033.8	1028.0	1022.2	1016.3	1010.5	1004.7
17.5°	1044.1	1036.9	1029.8	1022.7	1016.6	1010.4	1004.3	998.1	992.0	985.8	979.7
20°	1022.3	1013.9	1005.4	997.0	990.6	984.3	977.9	971.5	965.2	958.8	952.4
22.5°	996.3	986.4	976.4	966.4	960.1	953.9	947.6	941.4	935.1	928.9	922.6
25°	968.7	957.1	945.4	933.8	927.9	922.0	916.0	910.1	904.2	898.3	892.3
27.5°	938.1	924.8	911.6	898.3	892.8	887.3	881.8	876.3	870.9	865.4	859.9
30°	904.9	889.8	874.8	859.8	855.0	850.2	845.3	840.5	835.7	830.9	826.0
32.5°	870.3	853.3	836.3	819.3	815.5	811.6	807.8	804.0	800.1	796.3	792.5
35°	835.1	816.1	797.0	777.9	775.3	772.6	770.0	767.4	764.7	762.1	759.5
37.5°	800.2	778.6	757.0	735.4	734.5	733.6	732.8	731.9	731.0	730.1	729.3
40°	764.7	740.1	715.6	691.0	692.3	693.6	694.9	696.2	697.6	698.9	700.2
42.5°	728.9	701.4	674.0	646.6	650.5	654.5	658.4	662.4	666.3	670.3	674.2
45°	692.7	662.2	631.7	601.2	608.0	614.8	621.6	628.4	635.2	642.0	648.8
47.5°	656.7	623.4	590.0	556.7	566.2	575.8	585.3	594.9	604.4	614.0	623.5
50°	621.5	585.1	548.7	512.3	524.6	536.9	549.2	561.5	573.7	586.0	598.3
52.5°	586.7	547.1	507.5	467.9	483.1	498.4	513.6	528.9	544.1	559.4	574.6
55°	553.8	511.0	468.3	425.5	443.5	461.5	479.4	497.4	515.4	533.4	551.3
57.5°	521.5	475.7	429.8	384.0	404.8	425.7	446.5	467.3	488.2	509.0	529.8
60°	490.9	441.8	392.6	343.5	367.1	390.7	414.3	437.9	461.4	485.0	508.6
62.5°	462.6	410.4	358.2	306.0	332.2	358.4	384.6	410.8	437.1	463.3	489.5
65°	433.7	378.6	323.6	268.5	296.9	325.3	353.7	382.1	410.6	439.0	467.4
67.5°	404.7	347.2	289.6	232.0	262.5	293.0	323.5	354.0	384.4	414.9	445.4
70°	374.1	314.3	254.4	194.5	227.1	259.6	292.2	324.8	357.3	389.9	422.5
72.5°	347.8	286.9	225.9	164.9	198.2	231.6	264.9	298.2	331.6	364.9	398.2
75°	318.2	256.6	194.9	133.3	167.6	201.9	236.3	270.6	304.9	339.2	373.6
77.5°	289.2	227.7	166.1	104.6	139.2	173.7	208.3	242.8	277.4	311.9	346.5
80°	260.0	199.3	138.7	78.0	112.2	146.4	180.7	214.9	249.1	283.3	317.6
82.5°	230.0	170.8	111.5	52.3	86.0	119.7	153.3	187.0	220.7	254.4	288.0
85°	203.0	145.9	88.7	31.6	64.3	97.0	129.7	162.4	195.0	227.7	260.4
87.5°	175.7	121.0	66.4	11.8	43.3	74.8	106.3	137.8	169.2	200.7	232.2
90°	153.7	102.4	51.2	0.0	29.6	59.2	88.8	118.4	148.1	177.7	207.3
92.5°	142.5	95.0	47.5	0.0	27.5	55.1	82.6	110.1	137.7	165.2	192.7
95°	131.9	88.0	44.0	0.0	25.3	50.7	76.0	101.3	126.7	152.0	177.3
97.5°	121.4	81.0	40.5	0.0	23.4	46.7	70.1	93.5	116.8	140.2	163.6
100°	111.5	74.4	37.2	0.0	21.5	43.0	64.5	86.0	107.5	129.0	150.5
102.5°	101.7	67.8	33.9	0.0	19.7	39.5	59.2	79.0	98.7	118.5	138.2
105°	92.5	61.6	30.8	0.0	18.1	36.2	54.3	72.4	90.5	108.6	126.7
107.5°	84.2	56.2	28.1	0.0	16.6	33.1	49.7	66.3	82.8	99.4	116.0
110°	75.7	50.4	25.2	0.0	15.1	30.3	45.4	60.5	75.7	90.8	105.9



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	68.1	45.4	22.7	0.0	13.6	27.2	40.8	54.4	68.0	81.6	95.2
115°	62.2	41.5	20.7	0.0	12.2	24.4	36.5	48.7	60.9	73.1	85.2
117.5°	56.3	37.5	18.8	0.0	10.9	21.7	32.6	43.4	54.3	65.1	76.0
120°	50.7	33.8	16.9	0.0	9.8	19.5	29.3	39.1	48.8	58.6	68.4
122.5°	45.7	30.5	15.2	0.0	8.7	17.3	26.0	34.7	43.3	52.0	60.7
125°	40.5	27.0	13.5	0.0	7.7	15.4	23.0	30.7	38.4	46.1	53.7
127.5°	35.9	23.9	12.0	0.0	6.5	12.9	19.4	25.9	32.3	38.8	45.3
130°	31.3	20.8	10.4	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4
132.5°	26.7	17.8	8.9	0.0	4.5	9.0	13.5	18.0	22.5	27.0	31.5
135°	22.4	14.9	7.5	0.0	3.5	7.0	10.5	14.0	17.6	21.1	24.6
137.5°	17.8	11.8	5.9	0.0	2.7	5.5	8.2	11.0	13.7	16.5	19.2
140°	13.5	9.0	4.5	0.0	1.9	3.7	5.6	7.5	9.3	11.2	13.1
142.5°	10.2	6.8	3.4	0.0	1.2	2.4	3.6	4.8	6.1	7.3	8.5
145°	7.2	4.8	2.4	0.0	0.8	1.5	2.3	3.1	3.8	4.6	5.4
147.5°	4.9	3.3	1.6	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0
150°	3.3	2.2	1.1	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
152.5°	2.0	1.3	0.7	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
155°	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.4	0.2	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: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1088.4	1085.8	1085.3	1084.7	1084.2	1083.6	1083.1	1082.5	1082.0	1081.4	1080.9
5°	1076.5	1073.0	1071.8	1070.6	1069.4	1068.2	1067.0	1065.8	1064.6	1063.4	1062.2
7.5°	1060.6	1056.2	1054.6	1052.9	1051.3	1049.6	1048.0	1046.3	1044.7	1043.0	1041.4
10°	1042.5	1037.5	1035.6	1033.8	1031.9	1030.0	1028.2	1026.3	1024.4	1022.6	1020.7
12.5°	1021.4	1015.8	1013.9	1012.1	1010.2	1008.3	1006.5	1004.6	1002.7	1000.9	999.0
15°	998.9	993.1	991.3	989.6	987.8	986.1	984.3	982.6	980.8	979.1	977.3
17.5°	973.5	967.4	966.3	965.2	964.1	963.0	961.9	960.8	959.7	958.6	957.5
20°	946.1	939.7	939.6	939.5	939.4	939.3	939.2	939.1	939.0	938.9	938.8
22.5°	916.4	910.1	911.9	913.6	915.4	917.1	918.9	920.6	922.4	924.1	925.9
25°	886.4	880.5	884.9	889.3	893.7	898.1	902.4	906.8	911.2	915.6	920.0
27.5°	854.4	848.9	856.7	864.5	872.3	880.1	887.8	895.6	903.4	911.2	919.0
30°	821.2	816.4	827.6	838.8	849.9	861.1	872.3	883.5	894.6	905.8	917.0
32.5°	788.6	784.8	799.3	813.8	828.2	842.7	857.2	871.7	886.1	900.6	915.1
35°	756.8	754.2	771.9	789.5	807.2	824.8	842.5	860.1	877.8	895.4	913.1
37.5°	728.4	727.5	748.0	768.5	789.0	809.5	830.1	850.6	871.1	891.6	912.1
40°	701.5	702.8	726.3	749.8	773.2	796.7	820.2	843.7	867.1	890.6	914.1
42.5°	678.2	682.1	708.3	734.5	760.7	786.9	813.2	839.4	865.6	891.8	918.0
45°	655.6	662.4	691.7	721.0	750.2	779.5	808.8	838.1	867.3	896.6	925.9
47.5°	633.1	642.6	675.3	708.0	740.7	773.4	806.0	838.7	871.4	904.1	936.8
50°	610.6	622.9	659.5	696.2	732.8	769.4	806.1	842.7	879.3	916.0	952.6
52.5°	589.9	605.1	645.7	686.3	726.9	767.5	808.0	848.6	889.2	929.8	970.4
55°	569.3	587.3	632.5	677.7	722.9	768.1	813.2	858.4	903.6	948.8	994.0
57.5°	550.7	571.5	621.5	671.5	721.6	771.6	821.6	871.6	921.7	971.7	1021.7
60°	532.2	555.8	611.1	666.4	721.6	776.9	832.2	887.5	942.7	998.0	1053.3
62.5°	515.7	541.9	602.2	662.6	722.9	783.2	843.6	903.9	964.2	1024.6	1084.9
65°	495.8	524.2	589.7	655.2	720.6	786.1	851.6	917.1	982.5	1048.0	1113.5
67.5°	475.9	506.4	575.9	645.5	715.0	784.5	854.1	923.6	993.1	1062.7	1132.2
70°	455.0	487.6	560.1	632.6	705.1	777.6	850.1	922.6	995.1	1067.6	1140.1
72.5°	431.6	464.9	538.8	612.8	686.7	760.6	834.6	908.5	982.4	1056.4	1130.3
75°	407.9	442.2	515.4	588.5	661.7	734.9	808.0	881.2	954.4	1027.5	1100.7
77.5°	381.0	415.6	486.1	556.6	627.2	697.7	768.2	838.7	909.3	979.8	1050.3
80°	351.8	386.0	452.6	519.2	585.7	652.3	718.9	785.5	852.0	918.6	985.2
82.5°	321.7	355.4	417.0	478.7	540.3	601.9	663.6	725.2	786.8	848.5	910.1
85°	293.1	325.8	381.7	437.7	493.6	549.5	605.5	661.4	717.3	773.3	829.2
87.5°	263.7	295.2	345.6	396.1	446.5	497.0	547.4	597.9	648.3	698.8	749.2
90°	236.9	266.5	311.9	357.3	402.7	448.1	493.6	539.0	584.4	629.8	675.2
92.5°	220.3	247.8	288.7	329.6	370.5	411.4	452.4	493.3	534.2	575.1	616.0
95°	202.7	228.0	265.8	303.7	341.5	379.4	417.2	455.1	492.9	530.8	568.6
97.5°	186.9	210.3	245.5	280.7	315.9	351.1	386.3	421.5	456.7	491.9	527.1
100°	172.0	193.5	226.6	259.7	292.9	326.0	359.1	392.2	425.4	458.5	491.6
102.5°	158.0	177.7	209.2	240.7	272.1	303.6	335.1	366.6	398.0	429.5	461.0
105°	144.8	162.9	193.1	223.2	253.4	283.5	313.7	343.8	374.0	404.1	434.3
107.5°	132.5	149.1	178.1	207.0	236.0	264.9	293.9	322.8	351.8	380.7	409.7
110°	121.1	136.2	164.0	191.7	219.5	247.2	275.0	302.7	330.5	358.2	386.0



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	108.8	122.4	149.2	175.9	202.7	229.5	256.2	283.0	309.8	336.5	363.3
115°	97.4	109.6	135.0	160.5	185.9	211.4	236.8	262.3	287.7	313.2	338.6
117.5°	86.8	97.7	121.9	146.2	170.4	194.7	218.9	243.2	267.4	291.7	315.9
120°	78.1	87.9	110.6	133.3	156.0	178.7	201.4	224.1	246.8	269.5	292.2
122.5°	69.3	78.0	99.1	120.1	141.2	162.2	183.3	204.3	225.4	246.4	267.5
125°	61.4	69.1	88.5	107.9	127.3	146.7	166.2	185.6	205.0	224.4	243.8
127.5°	51.7	58.2	75.6	93.1	110.5	128.0	145.4	162.9	180.3	197.8	215.2
130°	43.9	49.4	64.4	79.4	94.5	109.5	124.5	139.5	154.6	169.6	184.6
132.5°	36.0	40.5	53.0	65.5	78.0	90.5	103.0	115.5	128.0	140.5	153.0
135°	28.1	31.6	42.6	53.5	64.5	75.5	86.4	97.4	108.4	119.3	130.3
137.5°	22.0	24.7	34.1	43.6	53.0	62.4	71.9	81.3	90.7	100.2	109.6
140°	14.9	16.8	25.1	33.5	41.8	50.1	58.5	66.8	75.1	83.5	91.8
142.5°	9.7	10.9	17.9	24.9	31.9	38.9	46.0	53.0	60.0	67.0	74.0
145°	6.1	6.9	12.7	18.5	24.3	30.1	36.0	41.8	47.6	53.4	59.2
147.5°	3.5	3.9	8.6	13.3	18.1	22.8	27.5	32.2	37.0	41.7	46.4
150°	2.7	3.0	6.5	10.0	13.5	17.0	20.5	24.0	27.5	31.0	34.5
152.5°	1.8	2.0	4.5	7.0	9.6	12.1	14.6	17.1	19.7	22.2	24.7
155°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	9.9	11.5	13.2	14.8
157.5°	0.0	0.0	0.8	1.5	2.3	3.1	3.8	4.6	5.4	6.1	6.9
160°	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0
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: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-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°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1079.9	1078.9	1077.9	1076.9	1076.0	1075.0	1074.0	1073.0	1072.0	1070.8	1069.6
5°	1060.8	1059.3	1057.9	1056.5	1055.0	1053.6	1052.2	1050.7	1049.3	1048.8	1048.2
7.5°	1040.0	1038.6	1037.1	1035.7	1034.3	1032.9	1031.4	1030.0	1028.6	1028.2	1027.7
10°	1019.4	1018.1	1016.7	1015.4	1014.1	1012.8	1011.4	1010.1	1008.8	1008.4	1007.9
12.5°	998.1	997.2	996.4	995.5	994.6	993.7	992.9	992.0	991.1	990.9	990.7
15°	977.2	977.1	977.0	976.9	976.7	976.6	976.5	976.4	976.3	976.5	976.7
17.5°	958.7	959.9	961.1	962.3	963.6	964.8	966.0	967.2	968.4	969.6	970.8
20°	942.6	946.5	950.3	954.1	958.0	961.8	965.6	969.5	973.3	975.4	977.5
22.5°	932.2	938.4	944.7	950.9	957.2	963.4	969.7	975.9	982.2	984.7	987.2
25°	927.9	935.8	943.7	951.6	959.5	967.4	975.3	983.2	991.1	993.9	996.8
27.5°	928.0	937.0	946.0	955.0	964.0	973.0	982.0	991.0	1000.0	1003.4	1006.8
30°	927.2	937.4	947.6	957.8	968.0	978.2	988.4	998.6	1008.8	1013.1	1017.4
32.5°	926.9	938.8	950.6	962.5	974.3	986.2	998.0	1009.9	1021.7	1026.9	1032.0
35°	926.9	940.7	954.6	968.4	982.2	996.0	1009.9	1023.7	1037.5	1043.6	1049.8
37.5°	928.3	944.6	960.8	977.0	993.3	1009.5	1025.7	1042.0	1058.2	1065.7	1073.1
40°	933.0	951.8	970.7	989.6	1008.4	1027.3	1046.2	1065.0	1083.9	1092.9	1101.9
42.5°	940.0	962.1	984.1	1006.2	1028.2	1050.3	1072.3	1094.4	1116.4	1126.9	1137.5
45°	951.7	977.5	1003.2	1029.0	1054.8	1080.6	1106.3	1132.1	1157.9	1170.1	1182.3
47.5°	966.7	996.7	1026.6	1056.6	1086.5	1116.5	1146.4	1176.4	1206.3	1220.3	1234.4
50°	987.0	1021.5	1055.9	1090.3	1124.8	1159.2	1193.6	1228.1	1262.5	1278.5	1294.5
52.5°	1009.9	1049.4	1088.8	1128.3	1167.8	1207.3	1246.7	1286.2	1325.7	1343.7	1361.7
55°	1038.8	1083.5	1128.3	1173.0	1217.8	1262.5	1307.3	1352.0	1396.8	1416.5	1436.3
57.5°	1071.4	1121.1	1170.8	1220.5	1270.1	1319.8	1369.5	1419.2	1468.9	1489.8	1510.8
60°	1107.5	1161.7	1215.8	1270.0	1324.2	1378.4	1432.5	1486.7	1540.9	1562.3	1583.7
62.5°	1142.0	1199.2	1256.3	1313.5	1370.6	1427.8	1484.9	1542.1	1599.2	1621.4	1643.5
65°	1173.7	1233.9	1294.1	1354.3	1414.6	1474.8	1535.0	1595.2	1655.4	1676.5	1697.5
67.5°	1193.7	1255.3	1316.8	1378.3	1439.9	1501.4	1562.9	1624.5	1686.0	1706.1	1726.2
70°	1201.3	1262.5	1323.7	1384.9	1446.2	1507.4	1568.6	1629.8	1691.0	1710.0	1728.9
72.5°	1190.0	1249.6	1309.3	1369.0	1428.6	1488.3	1548.0	1607.6	1667.3	1685.2	1703.1
75°	1157.5	1214.3	1271.1	1327.9	1384.8	1441.6	1498.4	1555.2	1612.0	1627.5	1642.9
77.5°	1103.1	1155.8	1208.6	1261.3	1314.1	1366.8	1419.6	1472.3	1525.1	1539.0	1553.0
80°	1032.9	1080.6	1128.3	1176.0	1223.8	1271.5	1319.2	1366.9	1414.6	1428.5	1442.4
82.5°	952.7	995.2	1037.8	1080.3	1122.9	1165.4	1208.0	1250.5	1293.1	1304.2	1315.3
85°	866.8	904.4	942.1	979.7	1017.3	1054.9	1092.6	1130.2	1167.8	1177.8	1187.8
87.5°	782.0	814.8	847.6	880.4	913.2	946.0	978.8	1011.6	1044.4	1053.5	1062.6
90°	704.0	732.9	761.7	790.6	819.4	848.3	877.1	906.0	934.8	943.4	951.9
92.5°	642.2	668.4	694.6	720.8	747.1	773.3	799.5	825.7	851.9	859.6	867.3
95°	592.4	616.2	640.0	663.8	687.6	711.4	735.2	759.0	782.8	790.4	797.9
97.5°	549.7	572.3	594.9	617.5	640.1	662.7	685.3	707.9	730.5	737.5	744.5
100°	513.3	535.0	556.7	578.4	600.2	621.9	643.6	665.3	687.0	694.0	701.0
102.5°	482.2	503.3	524.5	545.7	566.8	588.0	609.2	630.3	651.5	658.4	665.3
105°	455.3	476.2	497.2	518.1	539.1	560.0	581.0	601.9	622.9	629.7	636.5
107.5°	430.3	450.9	471.5	492.1	512.8	533.4	554.0	574.6	595.2	602.4	609.7
110°	406.6	427.2	447.8	468.4	489.1	509.7	530.3	550.9	571.5	578.7	586.0



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	383.9	404.5	425.1	445.7	466.4	487.0	507.6	528.2	548.8	556.2	563.5
115°	359.2	379.8	400.5	421.1	441.7	462.3	483.0	503.6	524.2	531.8	539.3
117.5°	336.2	356.5	376.8	397.1	417.3	437.6	457.9	478.2	498.5	506.2	513.9
120°	311.9	331.7	351.4	371.2	390.9	410.7	430.4	450.2	469.9	477.8	485.7
122.5°	286.5	305.5	324.4	343.4	362.4	381.4	400.3	419.3	438.3	446.2	454.1
125°	261.6	279.3	297.1	314.9	332.6	350.4	368.2	385.9	403.7	411.4	419.1
127.5°	232.2	249.2	266.2	283.2	300.2	317.2	334.2	351.2	368.2	375.9	383.6
130°	201.1	217.5	234.0	250.4	266.9	283.3	299.8	316.2	332.7	339.7	346.7
132.5°	169.0	185.0	201.0	217.0	233.1	249.1	265.1	281.1	297.1	303.6	310.1
135°	145.0	159.7	174.4	189.1	203.8	218.5	233.2	247.9	262.6	268.5	274.4
137.5°	121.8	133.9	146.1	158.3	170.4	182.6	194.8	206.9	219.1	225.6	232.1
140°	101.6	111.3	121.1	130.9	140.6	150.4	160.2	169.9	179.7	185.8	192.0
142.5°	82.4	90.9	99.3	107.8	116.2	124.7	133.1	141.6	150.0	155.1	160.1
145°	66.3	73.5	80.6	87.7	94.9	102.0	109.1	116.3	123.4	128.2	133.0
147.5°	52.2	58.0	63.8	69.6	75.5	81.3	87.1	92.9	98.7	103.4	108.1
150°	39.4	44.4	49.3	54.3	59.2	64.2	69.1	74.1	79.0	83.3	87.6
152.5°	28.5	32.4	36.2	40.0	43.9	47.7	51.5	55.4	59.2	63.2	67.1
155°	18.0	21.2	24.3	27.5	30.7	33.9	37.0	40.2	43.4	46.9	50.4
157.5°	9.4	11.9	14.5	17.0	19.5	22.0	24.6	27.1	29.6	32.7	35.8
160°	3.6	5.3	6.9	8.6	10.2	11.9	13.5	15.2	16.8	19.5	22.3
162.5°	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	8.1	10.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
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: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1068.4	1067.2	1066.0	1064.8	1063.6	1062.4	1061.2	1062.3	1063.4	1064.5	1065.6
5°	1047.7	1047.1	1046.6	1046.0	1045.5	1044.9	1044.4	1044.7	1045.0	1045.4	1045.7
7.5°	1027.3	1026.8	1026.4	1025.9	1025.5	1025.0	1024.6	1025.0	1025.5	1025.9	1026.4
10°	1007.5	1007.1	1006.6	1006.2	1005.8	1005.3	1004.9	1005.1	1005.3	1005.6	1005.8
12.5°	990.4	990.2	990.0	989.8	989.5	989.3	989.1	989.0	988.9	988.8	988.7
15°	976.9	977.1	977.4	977.6	977.8	978.0	978.2	978.0	977.8	977.6	977.4
17.5°	972.0	973.2	974.4	975.6	976.8	978.0	979.2	978.1	977.0	975.9	974.8
20°	979.6	981.7	983.7	985.8	987.9	990.0	992.1	989.8	987.5	985.2	982.9
22.5°	989.8	992.3	994.8	997.3	999.9	1002.4	1004.9	1001.8	998.8	995.7	992.6
25°	999.6	1002.5	1005.3	1008.2	1011.0	1013.9	1016.7	1013.4	1010.1	1006.8	1003.5
27.5°	1010.2	1013.6	1017.0	1020.4	1023.8	1027.2	1030.6	1026.9	1023.1	1019.4	1015.7
30°	1021.6	1025.9	1030.2	1034.5	1038.7	1043.0	1047.3	1042.8	1038.3	1033.8	1029.3
32.5°	1037.2	1042.3	1047.5	1052.6	1057.8	1062.9	1068.1	1062.8	1057.6	1052.3	1047.0
35°	1055.9	1062.1	1068.2	1074.4	1080.5	1086.7	1092.8	1086.5	1080.3	1074.0	1067.8
37.5°	1080.6	1088.0	1095.5	1102.9	1110.4	1117.8	1125.3	1118.0	1110.6	1103.3	1095.9
40°	1110.9	1119.9	1128.8	1137.8	1146.8	1155.8	1164.8	1156.1	1147.5	1138.8	1130.1
42.5°	1148.0	1158.5	1169.1	1179.6	1190.1	1200.7	1211.2	1201.2	1191.2	1181.3	1171.3
45°	1194.4	1206.6	1218.8	1231.0	1243.1	1255.3	1267.5	1255.9	1244.2	1232.6	1221.0
47.5°	1248.4	1262.4	1276.5	1290.5	1304.5	1318.6	1332.6	1319.3	1306.1	1292.8	1279.5
50°	1310.6	1326.6	1342.6	1358.6	1374.7	1390.7	1406.7	1391.7	1376.6	1361.6	1346.6
52.5°	1379.7	1397.7	1415.6	1433.6	1451.6	1469.6	1487.6	1470.9	1454.3	1437.6	1420.9
55°	1456.0	1475.8	1495.5	1515.3	1535.0	1554.8	1574.5	1556.2	1537.9	1519.5	1501.2
57.5°	1531.7	1552.7	1573.6	1594.6	1615.5	1636.5	1657.4	1638.3	1619.2	1600.1	1581.0
60°	1605.1	1626.5	1647.8	1669.2	1690.6	1712.0	1733.4	1714.1	1694.8	1675.5	1656.2
62.5°	1665.7	1687.8	1710.0	1732.1	1754.3	1776.4	1798.6	1779.3	1760.0	1740.7	1721.4
65°	1718.6	1739.6	1760.7	1781.7	1802.8	1823.8	1844.9	1826.3	1807.6	1789.0	1770.3
67.5°	1746.2	1766.3	1786.4	1806.5	1826.5	1846.6	1866.7	1849.3	1831.8	1814.4	1796.9
70°	1747.9	1766.9	1785.8	1804.8	1823.8	1842.7	1861.7	1845.3	1828.8	1812.4	1795.9
72.5°	1720.9	1738.8	1756.7	1774.6	1792.4	1810.3	1828.2	1812.2	1796.2	1780.1	1764.1
75°	1658.4	1673.9	1689.3	1704.8	1720.3	1735.7	1751.2	1736.7	1722.2	1707.8	1693.3
77.5°	1566.9	1580.8	1594.8	1608.7	1622.6	1636.6	1650.5	1637.3	1624.2	1611.0	1597.8
80°	1456.4	1470.3	1484.2	1498.1	1512.1	1526.0	1539.9	1526.3	1512.7	1499.1	1485.5
82.5°	1326.3	1337.4	1348.5	1359.6	1370.6	1381.7	1392.8	1381.5	1370.2	1358.9	1347.6
85°	1197.7	1207.7	1217.7	1227.7	1237.6	1247.6	1257.6	1247.2	1236.8	1226.3	1215.9
87.5°	1071.7	1080.8	1089.9	1099.0	1108.1	1117.2	1126.3	1116.5	1106.8	1097.0	1087.3
90°	960.5	969.0	977.6	986.1	994.7	1003.2	1011.8	1002.8	993.8	984.8	975.8
92.5°	874.9	882.6	890.3	898.0	905.6	913.3	921.0	912.8	904.6	896.3	888.1
95°	805.5	813.1	820.6	828.2	835.8	843.3	850.9	843.3	835.8	828.2	820.6
97.5°	751.6	758.6	765.6	772.6	779.7	786.7	793.7	786.6	779.4	772.3	765.2
100°	708.1	715.1	722.1	729.1	736.2	743.2	750.2	743.2	736.2	729.1	722.1
102.5°	672.2	679.1	686.1	693.0	699.9	706.8	713.7	707.2	700.8	694.3	687.8
105°	643.3	650.1	656.9	663.7	670.5	677.3	684.1	677.6	671.1	664.7	658.2
107.5°	616.9	624.2	631.4	638.7	645.9	653.2	660.4	653.8	647.2	640.7	634.1
110°	593.2	600.5	607.7	615.0	622.2	629.5	636.7	630.1	623.5	617.0	610.4



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	570.9	578.2	585.6	592.9	600.3	607.6	615.0	608.2	601.4	594.6	587.8
115°	546.9	554.5	562.0	569.6	577.2	584.7	592.3	585.5	578.7	571.9	565.1
117.5°	521.5	529.2	536.9	544.6	552.2	559.9	567.6	560.7	553.8	546.9	540.0
120°	493.6	501.5	509.3	517.2	525.1	533.0	540.9	533.9	526.9	519.9	512.9
122.5°	462.0	469.9	477.8	485.7	493.6	501.5	509.4	502.4	495.4	488.3	481.3
125°	426.7	434.4	442.1	449.8	457.4	465.1	472.8	466.1	459.4	452.7	446.0
127.5°	391.2	398.9	406.6	414.3	421.9	429.6	437.3	430.6	423.9	417.2	410.5
130°	353.7	360.7	367.8	374.8	381.8	388.8	395.8	389.7	383.5	377.4	371.3
132.5°	316.5	323.0	329.5	336.0	342.4	348.9	355.4	349.8	344.2	338.6	333.0
135°	280.4	286.3	292.2	298.1	304.1	310.0	315.9	311.0	306.0	301.1	296.2
137.5°	238.5	245.0	251.5	258.0	264.4	270.9	277.4	272.6	267.8	262.9	258.1
140°	198.1	204.2	210.4	216.5	222.6	228.8	234.9	230.5	226.1	221.8	217.4
142.5°	165.2	170.2	175.3	180.3	185.4	190.4	195.5	192.6	189.8	186.9	184.1
145°	137.9	142.7	147.5	152.3	157.2	162.0	166.8	164.4	162.0	159.6	157.2
147.5°	112.9	117.6	122.3	127.0	131.8	136.5	141.2	139.2	137.2	135.3	133.3
150°	91.8	96.1	100.4	104.7	108.9	113.2	117.5	115.9	114.2	112.6	110.9
152.5°	71.1	75.0	79.0	82.9	86.9	90.8	94.8	93.5	92.2	90.8	89.5
155°	53.9	57.4	61.0	64.5	68.0	71.5	75.0	74.0	73.0	72.0	71.0
157.5°	38.8	41.9	45.0	48.1	51.1	54.2	57.3	56.5	55.7	55.0	54.2
160°	25.0	27.8	30.5	33.3	36.0	38.8	41.5	40.8	40.2	39.5	38.8
162.5°	12.5	14.7	16.9	19.1	21.3	23.5	25.7	25.3	24.8	24.4	23.9
165°	4.3	5.7	7.1	8.5	10.0	11.4	12.8	12.8	12.8	12.8	12.8
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: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1066.6	1067.7	1068.8	1069.9	1071.0	1072.6	1074.3	1075.9	1077.6	1079.2	1080.9
5°	1046.0	1046.3	1046.7	1047.0	1047.3	1049.4	1051.5	1053.6	1055.7	1057.7	1059.8
7.5°	1026.8	1027.3	1027.7	1028.2	1028.6	1030.7	1032.8	1034.8	1036.9	1039.0	1041.1
10°	1006.0	1006.2	1006.5	1006.7	1006.9	1009.2	1011.5	1013.8	1016.1	1018.4	1020.7
12.5°	988.5	988.4	988.3	988.2	988.1	990.3	992.5	994.7	996.9	999.1	1001.3
15°	977.1	976.9	976.7	976.5	976.3	977.4	978.5	979.6	980.7	981.7	982.8
17.5°	973.8	972.7	971.6	970.5	969.4	969.1	968.7	968.4	968.1	967.7	967.4
20°	980.5	978.2	975.9	973.6	971.3	968.7	966.0	963.4	960.8	958.1	955.5
22.5°	989.6	986.5	983.4	980.4	977.3	972.4	967.4	962.5	957.5	952.6	947.6
25°	1000.3	997.0	993.7	990.4	987.1	980.4	973.7	967.0	960.3	953.7	947.0
27.5°	1011.9	1008.2	1004.5	1000.7	997.0	989.0	981.0	973.0	965.0	956.9	948.9
30°	1024.9	1020.4	1015.9	1011.4	1006.9	997.5	988.0	978.6	969.2	959.7	950.3
32.5°	1041.8	1036.5	1031.2	1026.0	1020.7	1009.4	998.1	986.8	975.5	964.2	952.9
35°	1061.5	1055.3	1049.0	1042.8	1036.5	1023.3	1010.2	997.0	983.8	970.7	957.5
37.5°	1088.6	1081.2	1073.9	1066.5	1059.2	1043.7	1028.3	1012.8	997.3	981.9	966.4
40°	1121.5	1112.8	1104.1	1095.5	1086.8	1068.6	1050.4	1032.2	1014.0	995.8	977.6
42.5°	1161.3	1151.3	1141.4	1131.4	1121.4	1100.0	1078.6	1057.2	1035.8	1014.5	993.1
45°	1209.3	1197.7	1186.1	1174.4	1162.8	1137.9	1113.0	1088.1	1063.2	1038.4	1013.5
47.5°	1266.3	1253.0	1239.7	1226.5	1213.2	1184.1	1155.1	1126.0	1096.9	1067.9	1038.8
50°	1331.5	1316.5	1301.5	1286.4	1271.4	1237.7	1204.1	1170.4	1136.7	1103.1	1069.4
52.5°	1404.3	1387.6	1370.9	1354.3	1337.6	1299.0	1260.4	1221.8	1183.2	1144.5	1105.9
55°	1482.9	1464.6	1446.2	1427.9	1409.6	1366.1	1322.5	1279.0	1235.4	1191.9	1148.3
57.5°	1562.0	1542.9	1523.8	1504.7	1485.6	1437.1	1388.6	1340.2	1291.7	1243.2	1194.7
60°	1636.9	1617.6	1598.3	1579.0	1559.7	1506.5	1453.3	1400.1	1346.9	1293.7	1240.5
62.5°	1702.0	1682.7	1663.4	1644.1	1624.8	1568.3	1511.8	1455.3	1398.8	1342.4	1285.9
65°	1751.7	1733.0	1714.4	1695.7	1677.1	1618.2	1559.3	1500.4	1441.5	1382.6	1323.7
67.5°	1779.5	1762.0	1744.6	1727.1	1709.7	1649.5	1589.3	1529.1	1468.9	1408.6	1348.4
70°	1779.5	1763.0	1746.6	1730.1	1713.7	1653.8	1593.9	1534.0	1474.1	1414.3	1354.4
72.5°	1748.1	1732.1	1716.0	1700.0	1684.0	1626.0	1568.0	1510.0	1452.0	1393.9	1335.9
75°	1678.8	1664.3	1649.9	1635.4	1620.9	1566.1	1511.2	1456.4	1401.5	1346.7	1291.8
77.5°	1584.7	1571.5	1558.3	1545.2	1532.0	1481.1	1430.2	1379.3	1328.4	1277.6	1226.7
80°	1471.9	1458.3	1444.7	1431.1	1417.5	1371.3	1325.1	1279.0	1232.8	1186.6	1140.4
82.5°	1336.4	1325.1	1313.8	1302.5	1291.2	1250.7	1210.2	1169.8	1129.3	1088.8	1048.3
85°	1205.5	1195.1	1184.6	1174.2	1163.8	1128.0	1092.3	1056.5	1020.8	985.0	949.3
87.5°	1077.5	1067.8	1058.0	1048.3	1038.5	1007.3	976.2	945.0	913.9	882.7	851.6
90°	966.9	957.9	948.9	939.9	930.9	903.4	875.8	848.3	820.8	793.2	765.7
92.5°	879.9	871.7	863.4	855.2	847.0	822.4	797.8	773.3	748.7	724.1	699.5
95°	813.1	805.5	797.9	790.4	782.8	760.0	737.2	714.4	691.6	668.7	645.9
97.5°	758.0	750.9	743.8	736.6	729.5	708.0	686.5	665.0	643.5	622.0	600.5
100°	715.1	708.1	701.0	694.0	687.0	666.3	645.6	624.8	604.1	583.4	562.7
102.5°	681.4	674.9	668.4	662.0	655.5	634.9	614.3	593.6	573.0	552.4	531.8
105°	651.7	645.2	638.8	632.3	625.8	605.6	585.4	565.3	545.1	524.9	504.7
107.5°	627.5	620.9	614.4	607.8	601.2	581.1	561.0	541.0	520.9	500.8	480.7
110°	603.8	597.2	590.7	584.1	577.5	557.5	537.6	517.6	497.6	477.7	457.7



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	581.0	574.2	567.4	560.6	553.8	533.9	514.1	494.2	474.4	454.5	434.7
115°	558.3	551.5	544.7	537.9	531.1	511.2	491.4	471.5	451.7	431.8	412.0
117.5°	533.0	526.1	519.2	512.3	505.4	485.8	466.1	446.5	426.9	407.2	387.6
120°	505.8	498.8	491.8	484.8	477.8	458.5	439.2	419.9	400.6	381.2	361.9
122.5°	474.3	467.3	460.2	453.2	446.2	427.7	409.1	390.6	372.1	353.5	335.0
125°	439.4	432.7	426.0	419.3	412.6	395.1	377.5	360.0	342.4	324.9	307.3
127.5°	403.9	397.2	390.5	383.8	377.1	360.5	344.0	327.4	310.8	294.3	277.7
130°	365.1	359.0	352.9	346.7	340.6	325.2	309.9	294.5	279.2	263.8	248.5
132.5°	327.4	321.8	316.2	310.6	305.0	290.6	276.3	261.9	247.5	233.2	218.8
135°	291.2	286.3	281.4	276.4	271.5	258.7	245.8	233.0	220.2	207.3	194.5
137.5°	253.3	248.5	243.6	238.8	234.0	223.4	212.7	202.1	191.4	180.8	170.1
140°	213.0	208.6	204.3	199.9	195.5	187.2	178.8	170.5	162.1	153.8	145.4
142.5°	181.2	178.4	175.5	172.7	169.8	162.4	155.1	147.7	140.4	133.0	125.7
145°	154.7	152.3	149.9	147.5	145.1	138.7	132.4	126.0	119.7	113.3	107.0
147.5°	131.3	129.3	127.4	125.4	123.4	117.9	112.4	106.9	101.4	96.0	90.5
150°	109.3	107.6	106.0	104.3	102.7	98.1	93.5	88.9	84.3	79.6	75.0
152.5°	88.2	86.9	85.5	84.2	82.9	79.1	75.2	71.4	67.6	63.7	59.9
155°	70.1	69.1	68.1	67.1	66.1	62.8	59.5	56.2	52.9	49.7	46.4
157.5°	53.4	52.6	51.9	51.1	50.3	47.6	44.8	42.1	39.4	36.6	33.9
160°	38.2	37.5	36.8	36.2	35.5	33.4	31.3	29.3	27.2	25.1	23.0
162.5°	23.5	23.0	22.6	22.1	21.7	20.6	19.5	18.4	17.3	16.2	15.1
165°	12.8	12.8	12.8	12.8	12.8	12.3	11.7	11.2	10.6	10.1	9.5
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: P201348

CATALOG NUMBER: 4LBLELD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1082.5	1084.2	1085.8	1085.9	1086.0	1086.1	1086.2	1086.4	1086.5	1086.6	1086.7
5°	1061.9	1064.0	1066.1	1066.9	1067.6	1068.4	1069.2	1069.9	1070.7	1071.5	1072.2
7.5°	1043.1	1045.2	1047.3	1048.3	1049.3	1050.3	1051.3	1052.2	1053.2	1054.2	1055.2
10°	1023.0	1025.3	1027.6	1028.5	1029.4	1030.2	1031.1	1032.0	1032.9	1033.7	1034.6
12.5°	1003.5	1005.7	1007.9	1008.7	1009.4	1010.2	1011.0	1011.7	1012.5	1013.3	1014.0
15°	983.9	985.0	986.1	986.7	987.2	987.8	988.3	988.9	989.4	990.0	990.5
17.5°	967.1	966.7	966.4	966.3	966.2	966.1	966.0	965.8	965.7	965.6	965.5
20°	952.9	950.2	947.6	946.5	945.4	944.3	943.2	942.2	941.1	940.0	938.9
22.5°	942.7	937.7	932.8	930.1	927.3	924.6	921.9	919.1	916.4	913.7	910.9
25°	940.3	933.6	926.9	921.5	916.1	910.8	905.4	900.0	894.6	889.3	883.9
27.5°	940.9	932.9	924.9	916.2	907.6	898.9	890.3	881.6	873.0	864.3	855.7
30°	940.9	931.4	922.0	910.2	898.3	886.5	874.6	862.8	850.9	839.1	827.2
32.5°	941.6	930.3	919.0	904.2	889.4	874.6	859.8	845.0	830.2	815.4	800.6
35°	944.3	931.2	918.0	900.0	882.0	864.0	846.0	828.1	810.1	792.1	774.1
37.5°	950.9	935.5	920.0	898.8	877.7	856.5	835.3	814.2	793.0	771.8	750.7
40°	959.4	941.2	923.0	899.0	875.0	850.9	826.9	802.9	778.9	754.8	730.8
42.5°	971.7	950.3	928.9	902.1	875.4	848.6	821.8	795.1	768.3	741.5	714.8
45°	988.6	963.7	938.8	908.9	878.9	849.0	819.0	789.1	759.1	729.2	699.2
47.5°	1009.7	980.7	951.6	918.1	884.7	851.2	817.8	784.3	750.9	717.4	684.0
50°	1035.7	1002.1	968.4	931.1	893.8	856.5	819.2	782.0	744.7	707.4	670.1
52.5°	1067.3	1028.7	990.1	948.5	907.0	865.4	823.8	782.3	740.7	699.1	657.6
55°	1104.8	1061.2	1017.7	971.4	925.1	878.9	832.6	786.3	740.0	693.8	647.5
57.5°	1146.3	1097.8	1049.3	997.9	946.4	895.0	843.6	792.1	740.7	689.3	637.8
60°	1187.3	1134.1	1080.9	1024.5	968.1	911.8	855.4	799.0	742.6	686.3	629.9
62.5°	1229.4	1172.9	1116.4	1054.7	992.9	931.2	869.4	807.7	745.9	684.2	622.4
65°	1264.8	1205.9	1147.0	1080.2	1013.4	946.6	879.8	813.1	746.3	679.5	612.7
67.5°	1288.2	1228.0	1167.8	1096.8	1025.9	954.9	883.9	813.0	742.0	671.0	600.1
70°	1294.5	1234.6	1174.7	1101.0	1027.3	953.6	879.9	806.1	732.4	658.7	585.0
72.5°	1277.9	1219.9	1161.9	1087.1	1012.3	937.5	862.7	787.8	713.0	638.2	563.4
75°	1237.0	1182.1	1127.3	1053.5	979.7	905.9	832.1	758.2	684.4	610.6	536.8
77.5°	1175.8	1124.9	1074.0	1003.0	932.1	861.1	790.1	719.2	648.2	577.2	506.3
80°	1094.3	1048.1	1001.9	935.5	869.2	802.8	736.5	670.1	603.8	537.4	471.1
82.5°	1007.9	967.4	926.9	865.3	803.6	742.0	680.3	618.7	557.0	495.4	433.7
85°	913.5	877.8	842.0	786.3	730.6	674.9	619.2	563.4	507.7	452.0	396.3
87.5°	820.4	789.3	758.1	708.3	658.5	608.7	558.9	509.2	459.4	409.6	359.8
90°	738.2	710.6	683.1	638.5	593.8	549.2	504.5	459.9	415.2	370.6	325.9
92.5°	675.0	650.4	625.8	585.3	544.9	504.4	463.9	423.5	383.0	342.5	302.1
95°	623.1	600.3	577.5	540.3	503.1	465.9	428.7	391.6	354.4	317.2	280.0
97.5°	579.0	557.5	536.0	501.3	466.7	432.0	397.4	362.7	328.1	293.4	258.8
100°	541.9	521.2	500.5	467.7	434.9	402.1	369.3	336.5	303.7	270.9	238.1
102.5°	511.1	490.5	469.9	438.6	407.4	376.1	344.8	313.6	282.3	251.0	219.8
105°	484.6	464.4	444.2	414.1	384.1	354.0	324.0	293.9	263.9	233.8	203.8
107.5°	460.7	440.6	420.5	391.4	362.4	333.3	304.2	275.2	246.1	217.0	188.0
110°	437.7	417.8	397.8	369.7	341.6	313.6	285.5	257.4	229.3	201.3	173.2



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	414.8	395.0	375.1	348.1	321.1	294.2	267.2	240.2	213.2	186.3	159.3
115°	392.1	372.3	352.4	326.5	300.6	274.7	248.8	223.0	197.1	171.2	145.3
117.5°	368.0	348.3	328.7	304.1	279.6	255.0	230.4	205.9	181.3	156.7	132.2
120°	342.6	323.3	304.0	281.1	258.2	235.2	212.3	189.4	166.5	143.5	120.6
122.5°	316.5	297.9	279.4	258.2	237.0	215.9	194.7	173.5	152.3	131.2	110.0
125°	289.8	272.2	254.7	235.3	215.9	196.5	177.1	157.6	138.2	118.8	99.4
127.5°	261.1	244.6	228.0	210.6	193.1	175.7	158.3	140.8	123.4	106.0	88.5
130°	233.1	217.8	202.4	186.9	171.5	156.0	140.5	125.1	109.6	94.1	78.7
132.5°	204.4	190.1	175.7	162.3	148.9	135.6	122.2	108.8	95.4	82.1	68.7
135°	181.7	168.8	156.0	143.9	131.9	119.8	107.7	95.7	83.6	71.5	59.5
137.5°	159.5	148.8	138.2	127.3	116.5	105.6	94.8	83.9	73.1	62.2	51.4
140°	137.1	128.7	120.4	110.6	100.9	91.1	81.4	71.6	61.9	52.1	42.4
142.5°	118.3	111.0	103.6	94.9	86.3	77.6	69.0	60.3	51.7	43.0	34.4
145°	100.6	94.3	87.9	80.3	72.7	65.2	57.6	50.0	42.4	34.9	27.3
147.5°	85.0	79.5	74.0	67.5	61.1	54.6	48.1	41.7	35.2	28.7	22.3
150°	70.4	65.8	61.2	55.9	50.7	45.4	40.1	34.9	29.6	24.3	19.1
152.5°	56.1	52.2	48.4	44.3	40.3	36.2	32.1	28.1	24.0	19.9	15.9
155°	43.1	39.8	36.5	33.4	30.4	27.3	24.2	21.2	18.1	15.0	12.0
157.5°	31.2	28.4	25.7	23.6	21.5	19.4	17.3	15.3	13.2	11.1	9.0
160°	21.0	18.9	16.8	15.5	14.2	12.8	11.5	10.2	8.9	7.5	6.2
162.5°	14.0	12.9	11.8	10.9	10.0	9.2	8.3	7.4	6.5	5.7	4.8
165°	9.0	8.4	7.9	7.4	6.8	6.3	5.7	5.2	4.6	4.1	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: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-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°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1086.8	1090.0	1093.2	1096.4	1099.6	1102.7	1105.9	1109.1	1112.3	1115.5	1115.5
5°	1073.0	1077.1	1081.1	1085.2	1089.2	1093.3	1097.3	1101.4	1105.4	1109.5	1110.6
7.5°	1056.2	1061.1	1066.1	1071.0	1076.0	1080.9	1085.9	1090.8	1095.8	1100.7	1103.0
10°	1035.5	1041.2	1046.9	1052.6	1058.3	1064.0	1069.7	1075.4	1081.1	1086.8	1090.4
12.5°	1014.8	1020.9	1027.1	1033.2	1039.4	1045.5	1051.7	1057.8	1064.0	1070.1	1074.9
15°	991.1	997.6	1004.0	1010.5	1017.0	1023.4	1029.9	1036.4	1042.8	1049.3	1055.6
17.5°	965.4	972.1	978.8	985.5	992.2	998.8	1005.5	1012.2	1018.9	1025.6	1033.2
20°	937.8	944.6	951.4	958.2	965.0	971.8	978.6	985.4	992.2	999.0	1008.0
22.5°	908.2	914.8	921.4	927.9	934.5	941.1	947.7	954.2	960.8	967.4	977.9
25°	878.5	884.8	891.0	897.3	903.5	909.8	916.0	922.3	928.5	934.8	946.9
27.5°	847.0	852.9	858.8	864.8	870.7	876.6	882.5	888.5	894.4	900.3	913.9
30°	815.4	820.4	825.5	830.5	835.6	840.6	845.7	850.7	855.8	860.8	876.2
32.5°	785.8	789.6	793.5	797.3	801.1	805.0	808.8	812.6	816.5	820.3	837.5
35°	756.1	758.6	761.1	763.7	766.2	768.7	771.2	773.8	776.3	778.8	797.8
37.5°	729.5	730.2	730.8	731.5	732.1	732.8	733.4	734.1	734.7	735.4	757.0
40°	706.8	705.2	703.5	701.9	700.2	698.6	696.9	695.3	693.6	692.0	716.2
42.5°	688.0	683.4	678.8	674.2	669.6	665.0	660.4	655.8	651.2	646.6	673.6
45°	669.3	661.7	654.2	646.6	639.0	631.5	623.9	616.3	608.8	601.2	631.4
47.5°	650.5	640.2	629.9	619.6	609.3	598.9	588.6	578.3	568.0	557.7	590.6
50°	632.8	619.5	606.2	593.0	579.7	566.4	553.1	539.9	526.6	513.3	549.2
52.5°	616.0	599.7	583.3	567.0	550.6	534.3	517.9	501.6	485.2	468.9	507.8
55°	601.2	581.9	562.6	543.3	524.0	504.6	485.3	466.0	446.7	427.4	469.3
57.5°	586.4	564.1	541.9	519.6	497.3	475.1	452.8	430.5	408.3	386.0	431.0
60°	573.5	548.2	522.8	497.5	472.2	446.8	421.5	396.2	370.8	345.5	393.6
62.5°	560.7	532.5	504.3	476.1	447.9	419.8	391.6	363.4	335.2	307.0	358.2
65°	545.9	515.2	484.5	453.8	423.1	392.3	361.6	330.9	300.2	269.5	323.6
67.5°	529.1	496.0	462.9	429.7	396.6	363.5	330.4	297.2	264.1	231.0	287.7
70°	511.3	476.3	441.3	406.3	371.3	336.4	301.4	266.4	231.4	196.4	255.1
72.5°	488.6	452.8	417.1	381.3	345.6	309.8	274.1	238.3	202.6	166.8	226.5
75°	463.0	426.7	390.4	354.1	317.8	281.4	245.1	208.8	172.5	136.2	196.5
77.5°	435.3	398.8	362.3	325.7	289.2	252.7	216.2	179.6	143.1	106.6	166.8
80°	404.7	368.6	332.5	296.5	260.4	224.3	188.2	152.2	116.1	80.0	139.3
82.5°	372.1	336.9	301.7	266.5	231.3	196.1	160.9	125.7	90.5	55.3	113.0
85°	340.6	306.5	272.4	238.3	204.2	170.0	135.9	101.8	67.7	33.6	89.1
87.5°	310.0	277.1	244.2	211.3	178.4	145.4	112.5	79.6	46.7	13.8	66.7
90°	281.3	250.2	219.0	187.9	156.7	125.6	94.4	63.3	32.1	1.0	50.5
92.5°	261.6	232.5	203.5	174.4	145.3	116.3	87.2	58.1	29.1	0.0	46.0
95°	242.8	215.8	188.8	161.9	134.9	107.9	80.9	54.0	27.0	0.0	42.3
97.5°	224.1	199.3	174.5	149.7	124.9	100.2	75.4	50.6	25.8	1.0	39.8
100°	205.3	182.6	159.9	137.2	114.5	91.8	69.1	46.4	23.7	1.0	36.5
102.5°	188.5	167.7	146.8	126.0	105.2	84.3	63.5	42.7	21.8	1.0	33.4
105°	173.7	154.5	135.3	116.1	96.9	77.8	58.6	39.4	20.2	1.0	30.5
107.5°	158.9	141.4	123.8	106.3	88.7	71.2	53.6	36.1	18.5	1.0	28.0
110°	145.1	129.1	113.1	97.1	81.1	65.0	49.0	33.0	17.0	1.0	25.1



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	132.3	117.7	103.1	88.5	73.9	59.4	44.8	30.2	15.6	1.0	22.9
115°	119.4	106.2	93.1	79.9	66.8	53.6	40.5	27.3	14.2	1.0	21.0
117.5°	107.6	95.8	83.9	72.1	60.2	48.4	36.5	24.7	12.8	1.0	19.1
120°	97.7	87.0	76.2	65.5	54.7	44.0	33.2	22.5	11.7	1.0	17.3
122.5°	88.8	79.0	69.3	59.5	49.8	40.0	30.3	20.5	10.8	1.0	15.4
125°	80.0	71.2	62.4	53.7	44.9	36.1	27.3	18.6	9.8	1.0	13.6
127.5°	71.1	63.3	55.5	47.7	39.9	32.2	24.4	16.6	8.8	1.0	11.7
130°	63.2	56.3	49.4	42.5	35.6	28.6	21.7	14.8	7.9	1.0	9.8
132.5°	55.3	49.3	43.2	37.2	31.2	25.1	19.1	13.1	7.0	1.0	8.1
135°	47.4	42.2	37.1	31.9	26.8	21.6	16.5	11.3	6.2	1.0	6.5
137.5°	40.5	36.1	31.7	27.3	22.9	18.6	14.2	9.8	5.4	1.0	5.2
140°	32.6	29.1	25.6	22.1	18.6	15.0	11.5	8.0	4.5	1.0	3.9
142.5°	25.7	23.0	20.2	17.5	14.7	12.0	9.2	6.5	3.7	1.0	3.0
145°	19.7	17.6	15.5	13.5	11.4	9.3	7.2	5.2	3.1	1.0	2.3
147.5°	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5	2.0	2.9
150°	13.8	12.5	11.2	9.9	8.6	7.2	5.9	4.6	3.3	2.0	2.7
152.5°	11.8	10.7	9.6	8.5	7.4	6.4	5.3	4.2	3.1	2.0	2.4
155°	8.9	8.1	7.4	6.6	5.8	5.1	4.3	3.5	2.8	2.0	2.3
157.5°	6.9	6.4	5.8	5.3	4.7	4.2	3.6	3.1	2.5	2.0	2.2
160°	4.9	4.6	4.3	3.9	3.6	3.3	3.0	2.6	2.3	2.0	2.1
162.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	2.0	2.0
165°	3.0	2.9	2.8	2.7	2.6	2.4	2.3	2.2	2.1	2.0	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: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1116.4	1117.3	1118.1
5°	1111.7	1112.8	1113.9	1115.0	1116.1	1117.2	1118.3	1119.4	1121.5	1123.6	1125.7
7.5°	1105.3	1107.6	1109.9	1112.2	1114.5	1116.8	1119.1	1121.4	1124.7	1128.0	1131.3
10°	1094.0	1097.7	1101.3	1104.9	1108.5	1112.2	1115.8	1119.4	1123.8	1128.2	1132.6
12.5°	1079.7	1084.6	1089.4	1094.2	1099.0	1103.9	1108.7	1113.5	1119.3	1125.1	1130.9
15°	1061.8	1068.1	1074.3	1080.6	1086.8	1093.1	1099.3	1105.6	1112.9	1120.3	1127.6
17.5°	1040.7	1048.3	1055.9	1063.4	1071.0	1078.6	1086.1	1093.7	1102.8	1111.9	1121.0
20°	1017.0	1026.0	1035.0	1043.9	1052.9	1061.9	1070.9	1079.9	1091.0	1102.1	1113.1
22.5°	988.5	999.0	1009.5	1020.1	1030.6	1041.1	1051.7	1062.2	1076.0	1089.8	1103.6
25°	958.9	971.0	983.1	995.1	1007.2	1019.3	1031.3	1043.4	1060.6	1077.8	1095.1
27.5°	927.5	941.1	954.7	968.3	981.9	995.5	1009.1	1022.7	1043.4	1064.1	1084.9
30°	891.5	906.9	922.2	937.6	952.9	968.3	983.6	999.0	1023.7	1048.4	1073.0
32.5°	854.7	872.0	889.2	906.4	923.6	940.9	958.1	975.3	1003.5	1031.7	1059.9
35°	816.8	835.7	854.7	873.7	892.7	911.6	930.6	949.6	981.7	1013.9	1046.0
37.5°	778.6	800.2	821.8	843.5	865.1	886.7	908.3	929.9	965.5	1001.2	1036.8
40°	740.5	764.7	788.9	813.2	837.4	861.6	885.9	910.1	949.6	989.1	1028.6
42.5°	700.6	727.5	754.5	781.5	808.5	835.4	862.4	889.4	933.1	976.7	1020.4
45°	661.5	691.7	721.8	752.0	782.1	812.3	842.4	872.6	920.3	968.0	1015.7
47.5°	623.5	656.4	689.3	722.3	755.2	788.1	821.0	853.9	906.5	959.2	1011.8
50°	585.0	620.9	656.8	692.6	728.5	764.4	800.2	836.1	894.0	951.9	1009.8
52.5°	546.8	585.7	624.6	663.6	702.5	741.4	780.4	819.3	882.9	946.5	1010.2
55°	511.2	553.1	595.0	636.9	678.8	720.7	762.6	804.5	874.5	944.5	1014.4
57.5°	475.9	520.9	565.9	610.8	655.8	700.8	745.7	790.7	867.7	944.7	1021.7
60°	441.8	489.9	538.1	586.2	634.4	682.5	730.7	778.8	863.2	947.5	1031.9
62.5°	409.4	460.7	511.9	563.1	614.3	665.6	716.8	768.0	859.8	951.6	1043.4
65°	377.6	431.7	485.8	539.8	593.9	648.0	702.0	756.1	855.0	954.0	1052.9
67.5°	344.4	401.1	457.8	514.5	571.2	627.9	684.6	741.3	846.6	951.9	1057.2
70°	313.8	372.5	431.2	489.8	548.5	607.2	665.9	724.6	834.6	944.6	1054.6
72.5°	286.1	345.8	405.5	465.1	524.8	584.5	644.1	703.8	816.1	928.4	1040.7
75°	256.8	317.2	377.5	437.8	498.1	558.5	618.8	679.1	791.1	903.1	1015.1
77.5°	227.0	287.2	347.4	407.7	467.9	528.1	588.3	648.5	757.2	865.9	974.6
80°	198.7	258.0	317.3	376.7	436.0	495.3	554.7	614.0	717.3	820.6	924.0
82.5°	170.7	228.4	286.1	343.7	401.4	459.1	516.8	574.5	671.0	767.5	864.1
85°	144.6	200.1	255.6	311.1	366.6	422.1	477.6	533.1	622.0	711.0	799.9
87.5°	119.5	172.4	225.3	278.1	331.0	383.9	436.7	489.6	570.5	651.5	732.4
90°	99.9	149.4	198.9	248.3	297.8	347.3	396.7	446.2	519.7	593.2	666.7
92.5°	91.9	137.9	183.8	229.8	275.7	321.7	367.6	413.6	480.4	547.2	614.0
95°	84.7	127.0	169.3	211.7	254.0	296.3	338.7	381.0	442.4	503.8	565.3
97.5°	78.6	117.5	156.3	195.1	233.9	272.8	311.6	350.4	407.4	464.5	521.5
100°	72.1	107.6	143.1	178.7	214.2	249.7	285.3	320.8	373.7	426.5	479.4
102.5°	65.7	98.1	130.4	162.8	195.1	227.5	259.8	292.2	342.9	393.5	444.2
105°	60.0	89.5	119.0	148.5	178.0	207.5	237.0	266.5	314.2	361.9	409.6
107.5°	55.0	81.9	108.9	135.9	162.9	189.8	216.8	243.8	289.3	334.8	380.4
110°	49.3	73.4	97.5	121.7	145.8	169.9	194.1	218.2	261.8	305.5	349.1



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	44.9	66.8	88.7	110.7	132.6	154.5	176.5	198.4	239.9	281.3	322.8
115°	40.9	60.9	80.8	100.8	120.7	140.7	160.6	180.6	220.1	259.6	299.1
117.5°	37.2	55.3	73.4	91.5	109.6	127.7	145.8	163.9	201.7	239.6	277.4
120°	33.7	50.0	66.4	82.7	99.1	115.4	131.8	148.1	183.5	218.9	254.4
122.5°	29.7	44.1	58.5	72.8	87.2	101.6	115.9	130.3	163.1	195.9	228.7
125°	26.2	38.8	51.4	64.1	76.7	89.3	101.9	114.5	144.9	175.3	205.6
127.5°	22.5	33.2	44.0	54.7	65.5	76.2	87.0	97.7	126.0	154.3	182.6
130°	18.6	27.3	36.1	44.9	53.7	62.4	71.2	80.0	105.6	131.1	156.7
132.5°	15.3	22.4	29.5	36.7	43.8	50.9	58.1	65.2	87.8	110.4	133.0
135°	12.0	17.4	22.9	28.4	33.9	39.3	44.8	50.3	69.9	89.6	109.2
137.5°	9.3	13.5	17.7	21.8	26.0	30.2	34.3	38.5	55.4	72.3	89.2
140°	6.7	9.6	12.4	15.3	18.1	21.0	23.8	26.7	41.4	56.1	70.8
142.5°	5.0	6.9	8.9	10.9	12.9	14.8	16.8	18.8	31.2	43.6	56.0
145°	3.6	4.9	6.2	7.6	8.9	10.2	11.5	12.8	22.9	33.0	43.1
147.5°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	17.8	25.7	33.6
150°	3.3	4.0	4.6	5.3	5.9	6.6	7.2	7.9	13.7	19.5	25.3
152.5°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	10.0	14.0	18.1
155°	2.6	3.0	3.3	3.6	3.9	4.3	4.6	4.9	7.3	9.7	12.2
157.5°	2.4	2.6	2.8	3.1	3.3	3.5	3.7	3.9	5.2	6.5	7.9
160°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.5	4.1	4.6
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.6
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.8	1.7
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: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-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°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1119.0	1119.9	1120.8	1121.6	1122.5	1123.4	1123.7	1124.0	1124.4	1124.7	1125.0
5°	1127.8	1129.8	1131.9	1134.0	1136.1	1138.2	1139.3	1140.4	1141.5	1142.6	1143.6
7.5°	1134.6	1137.8	1141.1	1144.4	1147.7	1151.0	1152.9	1154.7	1156.6	1158.5	1160.3
10°	1137.0	1141.3	1145.7	1150.1	1154.5	1158.9	1162.1	1165.3	1168.4	1171.6	1174.8
12.5°	1136.7	1142.6	1148.4	1154.2	1160.0	1165.8	1170.2	1174.6	1179.0	1183.4	1187.7
15°	1135.0	1142.3	1149.7	1157.0	1164.4	1171.7	1177.4	1183.1	1188.8	1194.5	1200.3
17.5°	1130.1	1139.3	1148.4	1157.5	1166.6	1175.7	1183.4	1191.1	1198.7	1206.4	1214.1
20°	1124.2	1135.3	1146.4	1157.4	1168.5	1179.6	1190.0	1200.4	1210.9	1221.3	1231.7
22.5°	1117.4	1131.3	1145.1	1158.9	1172.7	1186.5	1199.3	1212.2	1225.0	1237.8	1250.7
25°	1112.3	1129.5	1146.7	1164.0	1181.2	1198.4	1213.0	1227.6	1242.2	1256.8	1271.3
27.5°	1105.6	1126.3	1147.0	1167.8	1188.5	1209.2	1225.7	1242.1	1258.6	1275.0	1291.5
30°	1097.7	1122.4	1147.1	1171.7	1196.4	1221.1	1239.4	1257.7	1276.0	1294.3	1312.7
32.5°	1088.1	1116.2	1144.4	1172.6	1200.8	1229.0	1250.1	1271.1	1292.2	1313.2	1334.3
35°	1078.1	1110.3	1142.4	1174.5	1206.7	1238.8	1262.7	1286.6	1310.5	1334.4	1358.4
37.5°	1072.5	1108.1	1143.8	1179.4	1215.1	1250.7	1278.1	1305.5	1333.0	1360.4	1387.8
40°	1068.1	1107.5	1147.0	1186.5	1226.0	1265.5	1296.9	1328.2	1359.6	1391.0	1422.3
42.5°	1064.0	1107.7	1151.3	1195.0	1238.6	1282.3	1318.4	1354.5	1390.5	1426.6	1462.7
45°	1063.4	1111.2	1158.9	1206.6	1254.3	1302.0	1343.8	1385.6	1427.4	1469.2	1510.9
47.5°	1064.5	1117.1	1169.8	1222.4	1275.1	1327.7	1375.6	1423.6	1471.5	1519.4	1567.4
50°	1067.7	1125.7	1183.6	1241.5	1299.4	1357.3	1412.3	1467.2	1522.2	1577.1	1632.1
52.5°	1073.8	1137.4	1201.0	1264.7	1328.3	1391.9	1454.2	1516.5	1578.8	1641.1	1703.3
55°	1084.4	1154.4	1224.4	1294.3	1364.3	1434.3	1504.2	1574.0	1643.9	1713.8	1783.6
57.5°	1098.7	1175.7	1252.7	1329.7	1406.7	1483.7	1560.6	1637.5	1714.3	1791.2	1868.1
60°	1116.2	1200.6	1284.9	1369.3	1453.6	1538.0	1621.0	1704.0	1787.1	1870.1	1953.1
62.5°	1135.2	1227.0	1318.8	1410.6	1502.4	1594.2	1682.1	1769.9	1857.8	1945.6	2033.5
65°	1151.8	1250.8	1349.7	1448.6	1547.6	1646.5	1737.9	1829.2	1920.6	2012.0	2103.3
67.5°	1162.5	1267.8	1373.1	1478.4	1583.7	1689.0	1782.6	1876.1	1969.7	2063.2	2156.8
70°	1164.6	1274.6	1384.6	1494.6	1604.6	1714.6	1807.7	1900.8	1994.0	2087.1	2180.2
72.5°	1153.0	1265.4	1377.7	1490.0	1602.3	1714.6	1805.4	1896.2	1987.1	2077.9	2168.7
75°	1127.1	1239.0	1351.0	1463.0	1575.0	1687.0	1774.7	1862.5	1950.2	2038.0	2125.7
77.5°	1083.3	1192.0	1300.7	1409.4	1518.1	1626.8	1708.6	1790.4	1872.3	1954.1	2035.9
80°	1027.3	1130.6	1233.9	1337.3	1440.6	1543.9	1619.1	1694.4	1769.6	1844.8	1920.1
82.5°	960.6	1057.1	1153.6	1250.2	1346.7	1443.2	1513.3	1583.4	1653.5	1723.6	1793.6
85°	888.9	977.8	1066.8	1155.7	1244.7	1333.6	1395.1	1456.7	1518.2	1579.7	1641.3
87.5°	813.4	894.3	975.3	1056.2	1137.2	1218.1	1273.1	1328.0	1383.0	1437.9	1492.9
90°	740.2	813.6	887.1	960.6	1034.1	1107.6	1157.2	1206.7	1256.3	1305.9	1355.4
92.5°	680.8	747.6	814.4	881.2	948.0	1014.8	1060.3	1105.8	1151.3	1196.8	1242.4
95°	626.7	688.1	749.5	811.0	872.4	933.8	977.9	1022.0	1066.1	1110.2	1154.3
97.5°	578.5	635.6	692.6	749.6	806.7	863.7	904.8	946.0	987.1	1028.2	1069.4
100°	532.3	585.1	638.0	690.9	743.7	796.6	836.7	876.9	917.0	957.2	997.3
102.5°	494.9	545.5	596.2	646.9	697.5	748.2	786.7	825.2	863.7	902.2	940.7
105°	457.3	505.1	552.8	600.5	648.2	695.9	734.2	772.5	810.7	849.0	887.3
107.5°	425.9	471.4	516.9	562.5	608.0	653.5	691.1	728.7	766.4	804.0	841.6
110°	392.8	436.4	480.1	523.7	567.4	611.0	648.0	684.9	721.9	758.9	795.8



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	364.2	405.7	447.1	488.6	530.0	571.5	607.5	643.5	679.4	715.4	751.4
115°	338.6	378.0	417.5	457.0	496.5	536.0	570.3	604.7	639.0	673.3	707.7
117.5°	315.2	353.1	390.9	428.7	466.6	504.4	536.9	569.3	601.8	634.3	666.7
120°	289.8	325.2	360.6	396.1	431.5	466.9	498.6	530.3	562.0	593.7	625.4
122.5°	261.5	294.3	327.1	359.9	392.7	425.5	456.5	487.6	518.6	549.6	580.7
125°	236.0	266.4	296.8	327.1	357.5	387.9	417.2	446.5	475.8	505.1	534.3
127.5°	210.9	239.2	267.5	295.8	324.1	352.4	379.3	406.2	433.0	459.9	486.8
130°	182.2	207.8	233.3	258.9	284.4	310.0	334.8	359.6	384.4	409.2	433.9
132.5°	155.6	178.1	200.7	223.3	245.9	268.5	291.9	315.2	338.6	362.0	385.3
135°	128.8	148.5	168.1	187.7	207.4	227.0	249.6	272.2	294.8	317.4	340.0
137.5°	106.1	122.9	139.8	156.7	173.6	190.5	211.5	232.4	253.4	274.3	295.3
140°	85.5	100.1	114.8	129.5	144.2	158.9	177.0	195.1	213.2	231.3	249.4
142.5°	68.4	80.7	93.1	105.5	117.9	130.3	145.7	161.0	176.4	191.7	207.1
145°	53.2	63.2	73.3	83.4	93.5	103.6	116.4	129.3	142.1	154.9	167.8
147.5°	41.5	49.3	57.2	65.1	73.0	80.9	91.5	102.2	112.8	123.5	134.1
150°	31.1	37.0	42.8	48.6	54.4	60.2	69.0	77.8	86.5	95.3	104.1
152.5°	22.1	26.2	30.2	34.3	38.3	42.4	49.3	56.2	63.1	70.0	77.0
155°	14.6	17.0	19.4	21.9	24.3	26.7	32.1	37.4	42.8	48.2	53.5
157.5°	9.2	10.5	11.8	13.2	14.5	15.8	19.6	23.5	27.3	31.1	35.0
160°	5.2	5.7	6.3	6.8	7.4	7.9	10.2	12.5	14.8	17.1	19.4
162.5°	2.8	3.1	3.3	3.5	3.7	3.9	4.9	5.9	6.9	7.9	8.8
165°	1.6	1.4	1.3	1.2	1.1	1.0	1.3	1.6	2.0	2.3	2.6
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: P201348

CATALOG NUMBER: 4LBLEDD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1125.3	1125.7	1126.0	1126.3	1125.2	1124.1	1123.0	1121.9	1120.8	1119.7	1118.6
5°	1144.7	1145.8	1146.9	1148.0	1147.9	1147.8	1147.7	1147.6	1147.4	1147.3	1147.2
7.5°	1162.2	1164.1	1165.9	1167.8	1168.1	1168.4	1168.8	1169.1	1169.4	1169.7	1170.1
10°	1178.0	1181.1	1184.3	1187.5	1187.9	1188.4	1188.8	1189.3	1189.7	1190.2	1190.6
12.5°	1192.1	1196.5	1200.9	1205.3	1206.3	1207.3	1208.3	1209.3	1210.2	1211.2	1212.2
15°	1206.0	1211.7	1217.4	1223.1	1224.8	1226.6	1228.3	1230.1	1231.8	1233.6	1235.3
17.5°	1221.8	1229.4	1237.1	1244.8	1247.8	1250.7	1253.7	1256.6	1259.6	1262.5	1265.5
20°	1242.1	1252.6	1263.0	1273.4	1277.2	1281.1	1284.9	1288.7	1292.6	1296.4	1300.2
22.5°	1263.5	1276.3	1289.2	1302.0	1306.3	1310.6	1314.8	1319.1	1323.4	1327.7	1331.9
25°	1285.9	1300.5	1315.1	1329.7	1334.6	1339.6	1344.5	1349.4	1354.4	1359.3	1364.2
27.5°	1307.9	1324.4	1340.8	1357.3	1363.1	1368.9	1374.7	1380.5	1386.4	1392.2	1398.0
30°	1331.0	1349.3	1367.6	1385.9	1392.9	1399.9	1407.0	1414.0	1421.0	1428.0	1435.1
32.5°	1355.3	1376.4	1397.4	1418.5	1426.8	1435.2	1443.5	1451.8	1460.2	1468.5	1476.8
35°	1382.3	1406.2	1430.1	1454.0	1464.2	1474.4	1484.6	1494.8	1505.0	1515.2	1525.4
37.5°	1415.2	1442.7	1470.1	1497.5	1509.6	1521.6	1533.7	1545.8	1557.8	1569.9	1582.0
40°	1453.7	1485.1	1516.4	1547.8	1562.0	1576.1	1590.3	1604.4	1618.6	1632.7	1646.9
42.5°	1498.8	1534.8	1570.9	1607.0	1623.6	1640.1	1656.7	1673.3	1689.8	1706.4	1723.0
45°	1552.7	1594.5	1636.3	1678.1	1697.0	1715.8	1734.7	1753.6	1772.4	1791.3	1810.2
47.5°	1615.3	1663.2	1711.2	1759.1	1780.4	1801.7	1822.9	1844.2	1865.5	1886.8	1908.0
50°	1687.0	1742.0	1796.9	1851.9	1876.8	1901.7	1926.6	1951.5	1976.3	2001.2	2026.1
52.5°	1765.6	1827.9	1890.2	1952.5	1980.1	2007.8	2035.4	2063.1	2090.7	2118.4	2146.0
55°	1853.5	1923.4	1993.2	2063.1	2091.7	2120.3	2149.0	2177.6	2206.2	2234.8	2263.5
57.5°	1945.0	2021.8	2098.7	2175.6	2206.1	2236.6	2267.1	2297.6	2328.1	2358.6	2389.1
60°	2036.1	2119.2	2202.2	2285.2	2317.6	2349.9	2382.3	2414.6	2447.0	2479.3	2511.7
62.5°	2121.3	2209.2	2297.0	2384.9	2417.4	2449.8	2482.3	2514.8	2547.2	2579.7	2612.2
65°	2194.7	2286.1	2377.4	2468.8	2500.1	2531.3	2562.6	2593.8	2625.1	2656.3	2687.6
67.5°	2250.3	2343.9	2437.4	2531.0	2560.8	2590.7	2620.5	2650.3	2680.2	2710.0	2739.8
70°	2273.3	2366.5	2459.6	2552.7	2581.5	2610.4	2639.2	2668.1	2696.9	2725.8	2754.6
72.5°	2259.5	2350.4	2441.2	2532.0	2560.1	2588.2	2616.2	2644.3	2672.4	2700.5	2728.5
75°	2213.5	2301.2	2389.0	2476.7	2502.5	2528.3	2554.0	2579.8	2605.6	2631.4	2657.1
77.5°	2117.7	2199.6	2281.4	2363.2	2388.9	2414.5	2440.2	2465.9	2491.5	2517.2	2542.9
80°	1995.3	2070.5	2145.8	2221.0	2245.7	2270.4	2295.1	2319.8	2344.4	2369.1	2393.8
82.5°	1863.7	1933.8	2003.9	2074.0	2095.2	2116.3	2137.5	2158.7	2179.8	2201.0	2222.2
85°	1702.8	1764.3	1825.9	1887.4	1908.5	1929.5	1950.6	1971.6	1992.7	2013.7	2034.8
87.5°	1547.8	1602.8	1657.7	1712.7	1732.5	1752.4	1772.2	1792.1	1811.9	1831.8	1851.6
90°	1405.0	1454.6	1504.1	1553.7	1572.5	1591.2	1610.0	1628.7	1647.5	1666.2	1685.0
92.5°	1287.9	1333.4	1378.9	1424.4	1441.8	1459.3	1476.7	1494.2	1511.6	1529.1	1546.5
95°	1198.4	1242.5	1286.6	1330.7	1345.4	1360.1	1374.8	1389.5	1404.1	1418.8	1433.5
97.5°	1110.5	1151.6	1192.8	1233.9	1248.6	1263.3	1278.0	1292.7	1307.4	1322.1	1336.8
100°	1037.5	1077.6	1117.8	1157.9	1172.3	1186.6	1201.0	1215.4	1229.7	1244.1	1258.5
102.5°	979.2	1017.7	1056.2	1094.7	1109.0	1123.2	1137.5	1151.8	1166.0	1180.3	1194.6
105°	925.6	963.8	1002.1	1040.4	1054.6	1068.7	1082.9	1097.0	1111.2	1125.3	1139.5
107.5°	879.2	916.9	954.5	992.1	1006.0	1019.9	1033.9	1047.8	1061.7	1075.6	1089.6
110°	832.8	869.8	906.7	943.7	957.6	971.6	985.5	999.4	1013.4	1027.3	1041.2



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-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°	787.4	823.3	859.3	895.3	909.1	922.9	936.8	950.6	964.4	978.2	992.1
115°	742.0	776.3	810.7	845.0	858.6	872.2	885.8	899.4	913.0	926.6	940.2
117.5°	699.2	731.7	764.1	796.6	809.5	822.5	835.4	848.4	861.3	874.3	887.2
120°	657.1	688.8	720.5	752.2	764.4	776.6	788.7	800.9	813.1	825.3	837.4
122.5°	611.7	642.7	673.8	704.8	716.9	728.9	741.0	753.1	765.1	777.2	789.3
125°	563.6	592.9	622.2	651.5	663.6	675.6	687.7	699.8	711.8	723.9	736.0
127.5°	513.7	540.5	567.4	594.3	606.0	617.8	629.5	641.2	653.0	664.7	676.4
130°	458.7	483.5	508.3	533.1	544.0	554.8	565.7	576.5	587.4	598.2	609.1
132.5°	408.7	432.1	455.4	478.8	488.1	497.4	506.8	516.1	525.4	534.7	544.1
135°	362.6	385.2	407.8	430.4	438.5	446.6	454.7	462.8	471.0	479.1	487.2
137.5°	316.2	337.2	358.1	379.1	386.9	394.7	402.4	410.2	418.0	425.8	433.5
140°	267.5	285.6	303.7	321.8	330.0	338.2	346.5	354.7	362.9	371.1	379.4
142.5°	222.4	237.8	253.1	268.5	276.8	285.2	293.5	301.8	310.2	318.5	326.8
145°	180.6	193.4	206.3	219.1	227.7	236.2	244.8	253.3	261.9	270.4	279.0
147.5°	144.8	155.4	166.1	176.7	184.9	193.1	201.4	209.6	217.8	226.0	234.3
150°	112.9	121.6	130.4	139.2	146.7	154.1	161.6	169.0	176.5	183.9	191.4
152.5°	83.9	90.8	97.7	104.6	111.6	118.6	125.7	132.7	139.7	146.7	153.8
155°	58.9	64.3	69.6	75.0	81.4	87.7	94.1	100.5	106.8	113.2	119.6
157.5°	38.8	42.6	46.5	50.3	55.7	61.1	66.4	71.8	77.2	82.6	87.9
160°	21.7	24.0	26.3	28.6	33.0	37.4	41.8	46.2	50.5	54.9	59.3
162.5°	9.8	10.8	11.8	12.8	15.9	19.0	22.0	25.1	28.2	31.3	34.3
165°	2.9	3.3	3.6	3.9	5.8	7.6	9.5	11.4	13.2	15.1	17.0
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: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1099.7	1099.7
2.5°	1117.5	1116.4
5°	1147.1	1147.0
7.5°	1170.4	1170.7
10°	1191.1	1191.5
12.5°	1213.2	1214.2
15°	1237.1	1238.8
17.5°	1268.4	1271.4
20°	1304.1	1307.9
22.5°	1336.2	1340.5
25°	1369.2	1374.1
27.5°	1403.8	1409.6
30°	1442.1	1449.1
32.5°	1485.2	1493.5
35°	1535.6	1545.8
37.5°	1594.0	1606.1
40°	1661.0	1675.2
42.5°	1739.5	1756.1
45°	1829.0	1847.9
47.5°	1929.3	1950.6
50°	2051.0	2075.9
52.5°	2173.7	2201.3
55°	2292.1	2320.7
57.5°	2419.6	2450.1
60°	2544.0	2576.4
62.5°	2644.6	2677.1
65°	2718.8	2750.1
67.5°	2769.7	2799.5
70°	2783.5	2812.3
72.5°	2756.6	2784.7
75°	2682.9	2708.7
77.5°	2568.5	2594.2
80°	2418.5	2443.2
82.5°	2243.3	2264.5
85°	2055.8	2076.9
87.5°	1871.5	1891.3
90°	1703.7	1722.5
92.5°	1564.0	1581.4
95°	1448.2	1462.9
97.5°	1351.5	1366.2
100°	1272.8	1287.2
102.5°	1208.8	1223.1
105°	1153.6	1167.8
107.5°	1103.5	1117.4
110°	1055.2	1069.1



TEST NUMBER: P201348

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1005.9	1019.7
115°	953.8	967.4
117.5°	900.2	913.1
120°	849.6	861.8
122.5°	801.3	813.4
125°	748.0	760.1
127.5°	688.2	699.9
130°	619.9	630.8
132.5°	553.4	562.7
135°	495.3	503.4
137.5°	441.3	449.1
140°	387.6	395.8
142.5°	335.2	343.5
145°	287.5	296.1
147.5°	242.5	250.7
150°	198.8	206.3
152.5°	160.8	167.8
155°	125.9	132.3
157.5°	93.3	98.7
160°	63.7	68.1
162.5°	37.4	40.5
165°	18.8	20.7
167.5°	0.0	0.0
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)