

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: P201365

Luminaire Tested: **4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28230)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U
Description: 4 ft. Low Bay Linear, 9000 lm, Wht Asym lens, 5K
Light Source: (308) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
OT50W0980CC, OT50W0600CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9486.8 lumens
Efficiency: N/A
Efficacy: 130.1 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

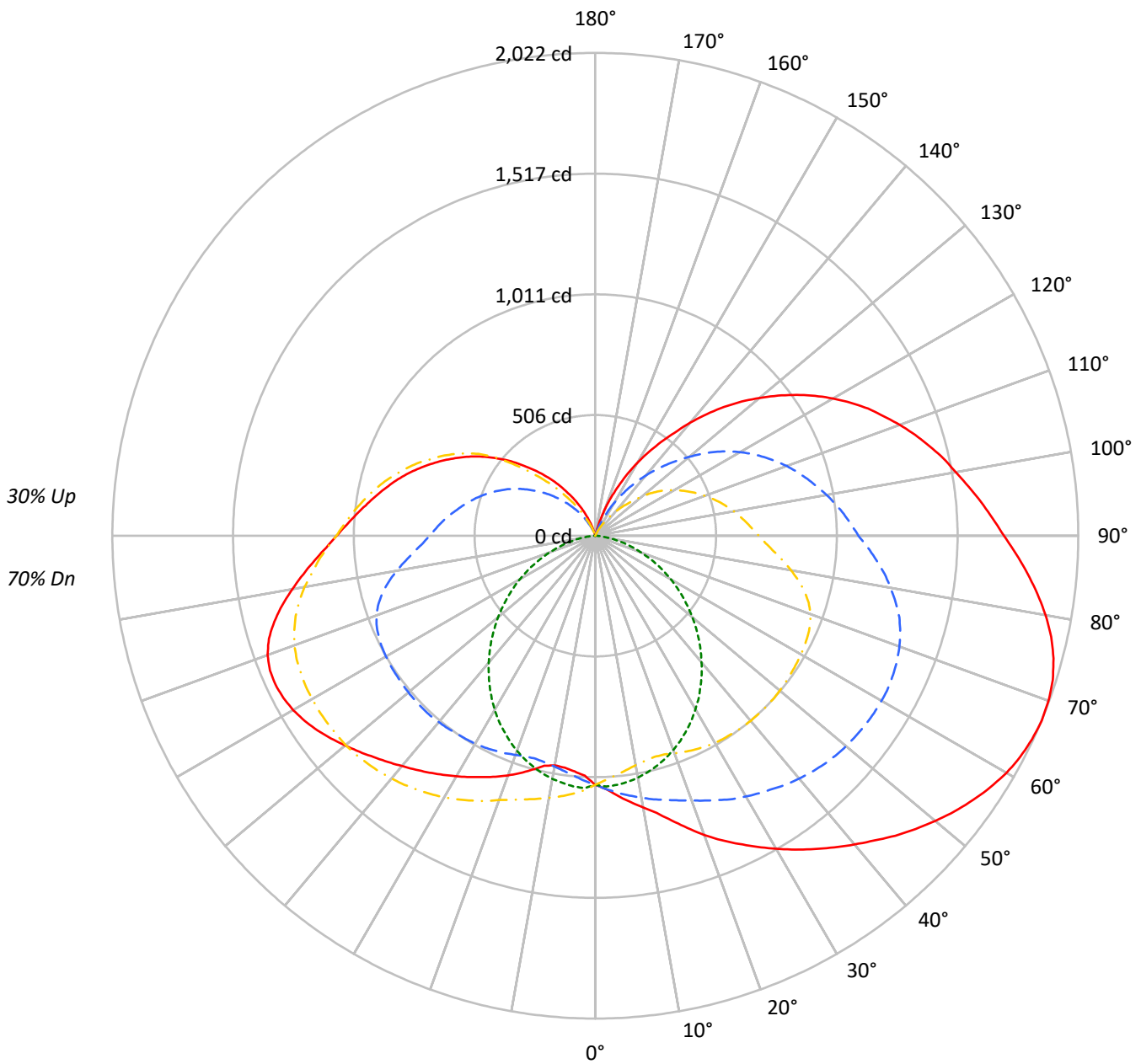
Input Watts (W): 72.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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



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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	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°	16808	16808	16808	16808
5°	15960	16862	14453	16963
10°	15505	16676	13098	16760
15°	15435	16407	12682	16476
20°	15729	16062	12602	16133
25°	16014	15644	12541	15680
30°	16381	15149	12588	15206
35°	16823	14571	12725	14630
40°	17359	13939	12949	14002
45°	18027	13263	13305	13309
50°	18745	12509	13788	12532
55°	19509	11703	14363	11703
60°	20283	10761	14906	10761
65°	20952	9732	15341	9697
70°	21515	8385	15558	8344
75°	21891	6799	15338	6742
80°	22026	4787	14824	4859
85°	22036	2180	14303	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.0
10°-20°	300.0	3.2
20°-30°	505.0	5.3
30°-40°	701.0	7.4
40°-50°	877.0	9.2
50°-60°	1019.2	10.7
60°-70°	1103.8	11.6
70°-80°	1086.4	11.5
80°-90°	963.7	10.2
90°-100°	831.8	8.8
100°-110°	700.4	7.4
110°-120°	548.3	5.8
120°-130°	384.9	4.1
130°-140°	227.2	2.4
140°-150°	104.5	1.1
150°-160°	31.2	0.3
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	904.5	9.5
0°-40°	1605.6	16.9
0°-60°	3501.8	36.9
0°-90°	6655.7	70.2
90°-120°	2080.5	21.9
90°-150°	2797.0	29.5
90°-180°	2831.0	29.8
0°-180°	9486.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1043	1043	1043	1043	1043	
5°	1094	1047	991	1054	1094	106
15°	1234	997	1014	1001	1234	353
25°	1424	901	1115	903	1424	662
35°	1601	768	1211	771	1601	1008
45°	1776	612	1311	614	1776	1376
55°	1930	448	1421	448	1930	1730
65°	2017	284	1477	283	2017	1998
75°	1986	130	1392	129	1986	2093
85°	1816	19	1179	21	1816	1504
90°	1711	0	1083	1	1711	939
95°	1621	0	1006	0	1621	1306
105°	1449	0	872	1	1449	1532
115°	1260	0	730	1	1260	1249
125°	1028	0	577	1	1028	923
135°	762	0	409	1	762	592
145°	478	0	250	1	478	305
155°	230	0	105	2	230	111
165°	36	0	5	2	36	14
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°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1061.9	1061.3	1060.7	1060.1	1059.5	1059.0	1058.4	1057.8	1057.2	1056.6	1057.2
5°	1094.2	1092.8	1091.4	1090.0	1088.6	1087.3	1085.9	1084.5	1083.1	1081.7	1081.6
7.5°	1124.4	1122.7	1120.9	1119.2	1117.5	1115.7	1114.0	1112.3	1110.5	1108.8	1107.5
10°	1155.7	1153.5	1151.3	1149.1	1146.9	1144.7	1142.5	1140.3	1138.1	1135.9	1133.5
12.5°	1189.1	1186.3	1183.5	1180.8	1178.0	1175.2	1172.4	1169.7	1166.9	1164.1	1160.4
15°	1234.0	1230.9	1227.7	1224.6	1221.5	1218.3	1215.2	1212.1	1208.9	1205.8	1199.1
17.5°	1283.0	1278.5	1274.0	1269.4	1264.9	1260.4	1255.9	1251.3	1246.8	1242.3	1233.4
20°	1333.1	1327.3	1321.5	1315.7	1309.9	1304.1	1298.3	1292.5	1286.7	1280.9	1269.7
22.5°	1380.0	1373.3	1366.6	1359.8	1353.1	1346.4	1339.7	1332.9	1326.2	1319.5	1306.3
25°	1423.8	1417.2	1410.6	1404.0	1397.4	1390.7	1384.1	1377.5	1370.9	1364.3	1348.4
27.5°	1468.7	1461.0	1453.4	1445.7	1438.1	1430.4	1422.8	1415.1	1407.5	1399.8	1382.4
30°	1513.5	1505.2	1496.8	1488.5	1480.1	1471.8	1463.4	1455.1	1446.7	1438.4	1418.7
32.5°	1558.4	1549.2	1540.1	1530.9	1521.8	1512.6	1503.5	1494.3	1485.2	1476.0	1454.0
35°	1601.1	1591.0	1580.9	1570.9	1560.8	1550.7	1540.6	1530.6	1520.5	1510.4	1486.4
37.5°	1644.9	1633.8	1622.7	1611.5	1600.4	1589.3	1578.2	1567.0	1555.9	1544.8	1519.1
40°	1687.7	1675.6	1663.6	1651.5	1639.5	1627.4	1615.4	1603.3	1591.3	1579.2	1551.3
42.5°	1730.5	1717.6	1704.8	1691.9	1679.0	1666.2	1653.3	1640.4	1627.6	1614.7	1584.3
45°	1776.4	1762.1	1747.9	1733.6	1719.4	1705.1	1690.9	1676.6	1662.4	1648.1	1615.4
47.5°	1818.1	1802.9	1787.7	1772.5	1757.3	1742.2	1727.0	1711.8	1696.6	1681.4	1646.1
50°	1857.7	1841.6	1825.5	1809.4	1793.3	1777.1	1761.0	1744.9	1728.8	1712.7	1674.7
52.5°	1896.3	1879.3	1862.2	1845.2	1828.2	1811.1	1794.1	1777.1	1760.0	1743.0	1702.2
55°	1929.7	1912.1	1894.5	1876.8	1859.2	1841.6	1824.0	1806.3	1788.7	1771.1	1727.6
57.5°	1961.0	1942.7	1924.4	1906.1	1887.8	1869.4	1851.1	1832.8	1814.5	1796.2	1750.3
60°	1987.1	1968.2	1949.3	1930.4	1911.5	1892.6	1873.7	1854.8	1835.9	1817.0	1768.8
62.5°	2005.8	1986.7	1967.6	1948.4	1929.3	1910.2	1891.1	1871.9	1852.8	1833.7	1783.5
65°	2017.3	1997.9	1978.6	1959.2	1939.9	1920.5	1901.2	1881.8	1862.5	1843.1	1791.2
67.5°	2022.5	2003.0	1983.6	1964.1	1944.6	1925.2	1905.7	1886.2	1866.8	1847.3	1794.0
70°	2019.4	1999.8	1980.2	1960.6	1941.0	1921.5	1901.9	1882.3	1862.7	1843.1	1788.9
72.5°	2007.9	1988.3	1968.7	1949.1	1929.5	1910.0	1890.4	1870.8	1851.2	1831.6	1776.8
75°	1986.0	1966.5	1947.1	1927.6	1908.1	1888.7	1869.2	1849.7	1830.3	1810.8	1756.0
77.5°	1954.7	1935.5	1916.2	1897.0	1877.8	1858.5	1839.3	1820.1	1800.8	1781.6	1726.8
80°	1914.0	1894.9	1875.8	1856.6	1837.5	1818.4	1799.3	1780.1	1761.0	1741.9	1687.8
82.5°	1867.1	1848.9	1830.7	1812.5	1794.3	1776.1	1757.9	1739.7	1721.5	1703.3	1649.8
85°	1816.0	1798.0	1780.1	1762.1	1744.1	1726.2	1708.2	1690.2	1672.3	1654.3	1601.8
87.5°	1763.8	1746.1	1728.4	1710.6	1692.9	1675.2	1657.5	1639.7	1622.0	1604.3	1553.0
90°	1710.6	1692.6	1674.7	1656.7	1638.8	1620.8	1602.9	1584.9	1567.0	1549.0	1499.3
92.5°	1664.7	1647.7	1630.6	1613.6	1596.6	1579.5	1562.5	1545.5	1528.4	1511.4	1462.6
95°	1620.9	1604.3	1587.8	1571.2	1554.6	1538.1	1521.5	1504.9	1488.4	1471.8	1424.3
97.5°	1576.1	1560.0	1543.9	1527.8	1511.7	1495.5	1479.4	1463.3	1447.2	1431.1	1384.7
100°	1532.3	1516.7	1501.0	1485.4	1469.7	1454.1	1438.4	1422.8	1407.1	1391.5	1346.2
102.5°	1493.7	1478.1	1462.4	1446.8	1431.1	1415.5	1399.8	1384.2	1368.5	1352.9	1308.2
105°	1448.8	1433.7	1418.7	1403.6	1388.5	1373.5	1358.4	1343.3	1328.3	1313.2	1269.4
107.5°	1404.0	1389.2	1374.3	1359.5	1344.7	1329.8	1315.0	1300.2	1285.3	1270.5	1227.8
110°	1357.0	1342.4	1327.8	1313.2	1298.6	1284.0	1269.4	1254.8	1240.2	1225.6	1184.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1307.0	1292.7	1278.5	1264.2	1250.0	1235.7	1221.5	1207.2	1193.0	1178.7	1138.5
115°	1260.0	1245.4	1230.8	1216.2	1201.6	1187.0	1172.4	1157.8	1143.2	1128.6	1089.8
117.5°	1205.8	1191.7	1177.5	1163.4	1149.2	1135.1	1120.9	1106.8	1092.6	1078.5	1041.0
120°	1149.5	1135.1	1120.7	1106.4	1092.0	1077.6	1063.2	1048.9	1034.5	1020.1	984.5
122.5°	1090.0	1076.3	1062.6	1049.0	1035.3	1021.6	1007.9	994.3	980.6	966.9	932.5
125°	1028.5	1015.4	1002.3	989.2	976.1	963.0	949.9	936.8	923.7	910.6	877.5
127.5°	963.8	951.3	938.8	926.2	913.7	901.2	888.7	876.1	863.6	851.1	819.2
130°	898.1	886.4	874.7	863.0	851.3	839.5	827.8	816.1	804.4	792.7	761.8
132.5°	831.3	820.1	808.8	797.6	786.4	775.1	763.9	752.7	741.4	730.2	700.9
135°	762.5	751.7	740.9	730.2	719.4	708.6	697.8	687.1	676.3	665.5	638.3
137.5°	690.5	680.3	670.1	659.9	649.7	639.5	629.3	619.1	608.9	598.7	573.9
140°	618.5	609.2	600.0	590.7	581.4	572.2	562.9	553.6	544.4	535.1	512.4
142.5°	542.4	535.0	527.6	520.1	512.7	505.3	497.9	490.4	483.0	475.6	454.5
145°	477.7	471.1	464.5	457.9	451.3	444.7	438.1	431.5	424.9	418.3	398.7
147.5°	415.1	409.0	402.8	396.7	390.6	384.4	378.3	372.2	366.0	359.9	342.2
150°	352.6	347.3	341.9	336.6	331.3	325.9	320.6	315.3	309.9	304.6	288.6
152.5°	292.1	287.2	282.4	277.5	272.6	267.8	262.9	258.0	253.2	248.3	234.4
155°	230.5	226.2	221.9	217.6	213.3	209.1	204.8	200.5	196.2	191.9	179.6
157.5°	173.2	169.8	166.5	163.1	159.7	156.4	153.0	149.6	146.3	142.9	132.8
160°	121.0	117.8	114.5	111.3	108.0	104.8	101.5	98.3	95.0	91.8	85.1
162.5°	72.0	69.9	67.8	65.7	63.6	61.6	59.5	57.4	55.3	53.2	48.8
165°	35.5	34.3	33.2	32.0	30.8	29.7	28.5	27.3	26.2	25.0	22.8
167.5°	11.5	11.1	10.8	10.4	10.1	9.7	9.4	9.0	8.7	8.3	7.4
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°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1057.8	1058.4	1059.0	1059.5	1060.1	1060.7	1061.3	1061.9	1059.9	1057.9	1056.0
5°	1081.5	1081.3	1081.2	1081.1	1081.0	1080.8	1080.7	1080.6	1077.4	1074.1	1070.9
7.5°	1106.2	1105.0	1103.7	1102.4	1101.1	1099.9	1098.6	1097.3	1092.7	1088.0	1083.4
10°	1131.0	1128.6	1126.2	1123.7	1121.3	1118.9	1116.4	1114.0	1107.6	1101.2	1094.9
12.5°	1156.7	1153.0	1149.3	1145.5	1141.8	1138.1	1134.4	1130.7	1122.4	1114.0	1105.7
15°	1192.4	1185.6	1178.9	1172.2	1165.5	1158.7	1152.0	1145.3	1135.0	1124.7	1114.4
17.5°	1224.5	1215.5	1206.6	1197.7	1188.8	1179.8	1170.9	1162.0	1149.1	1136.3	1123.4
20°	1258.4	1247.2	1235.9	1224.7	1213.4	1202.2	1190.9	1179.7	1163.9	1148.2	1132.4
22.5°	1293.1	1279.9	1266.7	1253.4	1240.2	1227.0	1213.8	1200.6	1181.5	1162.4	1143.2
25°	1332.5	1316.7	1300.8	1284.9	1269.0	1253.2	1237.3	1221.4	1198.7	1176.0	1153.3
27.5°	1365.0	1347.6	1330.2	1312.9	1295.5	1278.1	1260.7	1243.3	1216.9	1190.5	1164.0
30°	1399.0	1379.3	1359.6	1339.9	1320.2	1300.5	1280.8	1261.1	1231.3	1201.5	1171.7
32.5°	1432.0	1409.9	1387.9	1365.9	1343.9	1321.8	1299.8	1277.8	1244.9	1212.0	1179.0
35°	1462.4	1438.4	1414.4	1390.5	1366.5	1342.5	1318.5	1294.5	1258.5	1222.4	1186.4
37.5°	1493.3	1467.6	1441.9	1416.1	1390.4	1364.7	1338.9	1313.2	1274.0	1234.9	1195.7
40°	1523.3	1495.4	1467.5	1439.5	1411.6	1383.7	1355.7	1327.8	1285.8	1243.9	1201.9
42.5°	1554.0	1523.6	1493.2	1462.9	1432.5	1402.1	1371.8	1341.4	1296.8	1252.2	1207.5
45°	1582.7	1550.0	1517.3	1484.7	1452.0	1419.3	1386.6	1353.9	1306.3	1258.6	1211.0
47.5°	1610.7	1575.4	1540.0	1504.7	1469.3	1434.0	1398.6	1363.3	1313.2	1263.2	1213.1
50°	1636.7	1598.7	1560.7	1522.6	1484.6	1446.6	1408.6	1370.6	1318.1	1265.6	1213.1
52.5°	1661.4	1620.6	1579.8	1539.0	1498.2	1457.4	1416.6	1375.8	1320.9	1265.9	1211.0
55°	1684.2	1640.7	1597.3	1553.8	1510.4	1466.9	1423.5	1380.0	1322.6	1265.3	1207.9
57.5°	1704.4	1658.5	1612.6	1566.7	1520.8	1474.9	1429.0	1383.1	1323.3	1263.5	1203.7
60°	1720.6	1672.4	1624.2	1575.9	1527.7	1479.5	1431.3	1383.1	1321.1	1259.1	1197.1
62.5°	1733.3	1683.2	1633.0	1582.8	1532.6	1482.5	1432.3	1382.1	1318.0	1253.9	1189.8
65°	1739.3	1687.3	1635.4	1583.5	1531.6	1479.6	1427.7	1375.8	1309.9	1243.9	1178.0
67.5°	1740.7	1687.4	1634.1	1580.7	1527.4	1474.1	1420.8	1367.5	1299.8	1232.1	1164.4
70°	1734.6	1680.4	1626.2	1571.9	1517.7	1463.5	1409.2	1355.0	1285.8	1216.6	1147.4
72.5°	1722.0	1667.2	1612.4	1557.5	1502.7	1447.9	1393.1	1338.3	1267.9	1197.6	1127.2
75°	1701.2	1646.3	1591.5	1536.7	1481.9	1427.0	1372.2	1317.4	1246.2	1175.1	1103.9
77.5°	1672.0	1617.1	1562.3	1507.5	1452.7	1397.8	1343.0	1288.2	1217.0	1145.9	1074.7
80°	1633.7	1579.5	1525.4	1471.3	1417.2	1363.0	1308.9	1254.8	1183.6	1112.5	1041.3
82.5°	1596.2	1542.7	1489.1	1435.6	1382.0	1328.5	1274.9	1221.4	1150.7	1080.0	1009.3
85°	1549.3	1496.8	1444.3	1391.8	1339.3	1286.8	1234.3	1181.8	1112.1	1042.5	972.8
87.5°	1501.6	1450.3	1398.9	1347.6	1296.2	1244.9	1193.5	1142.2	1073.8	1005.4	937.1
90°	1449.6	1399.8	1350.1	1300.4	1250.7	1200.9	1151.2	1101.5	1034.9	968.2	901.6
92.5°	1413.8	1365.0	1316.2	1267.5	1218.7	1169.9	1121.1	1072.3	1006.9	941.6	876.2
95°	1376.8	1329.2	1281.7	1234.2	1186.7	1139.1	1091.6	1044.1	979.8	915.5	851.1
97.5°	1338.4	1292.0	1245.7	1199.3	1153.0	1106.6	1060.3	1013.9	951.0	888.0	825.1
100°	1300.9	1255.5	1210.2	1164.9	1119.6	1074.2	1028.9	983.6	921.7	859.8	797.9
102.5°	1263.4	1218.7	1173.9	1129.2	1084.4	1039.7	994.9	950.2	889.6	829.0	768.4
105°	1225.6	1181.8	1138.0	1094.1	1050.3	1006.5	962.7	918.9	859.5	800.0	740.6
107.5°	1185.2	1142.5	1099.9	1057.2	1014.6	971.9	929.3	886.6	828.3	770.0	711.7
110°	1142.8	1101.5	1060.1	1018.7	977.3	936.0	894.6	853.2	796.1	738.9	681.8



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1098.3	1058.0	1017.8	977.6	937.4	897.1	856.9	816.7	761.0	705.2	649.5
115°	1051.0	1012.1	973.3	934.5	895.7	856.8	818.0	779.2	724.8	670.5	616.1
117.5°	1003.4	965.9	928.3	890.8	853.2	815.7	778.1	740.6	687.9	635.1	582.4
120°	948.9	913.4	877.8	842.2	806.6	771.1	735.5	699.9	648.7	597.5	546.2
122.5°	898.1	863.6	829.2	794.8	760.4	725.9	691.5	657.1	608.1	559.1	510.0
125°	844.3	811.2	778.0	744.9	711.7	678.6	645.4	612.3	565.7	519.1	472.5
127.5°	787.4	755.5	723.6	691.8	659.9	628.0	596.2	564.3	520.5	476.7	432.9
130°	730.8	699.9	668.9	638.0	607.0	576.1	545.1	514.2	473.4	432.6	391.8
132.5°	671.6	642.2	612.9	583.6	554.3	524.9	495.6	466.3	428.4	390.5	352.6
135°	611.0	583.8	556.6	529.3	502.1	474.9	447.6	420.4	385.3	350.2	315.0
137.5°	549.1	524.3	499.5	474.7	449.9	425.1	400.3	375.5	342.9	310.4	277.8
140°	489.7	467.0	444.3	421.5	398.8	376.1	353.4	330.7	300.4	270.2	239.9
142.5°	433.4	412.3	391.2	370.2	349.1	328.0	306.9	285.8	258.9	232.0	205.1
145°	379.1	359.5	339.9	320.4	300.8	281.2	261.6	242.0	218.5	194.9	171.4
147.5°	324.4	306.7	289.0	271.2	253.5	235.8	218.0	200.3	180.5	160.7	140.8
150°	272.6	256.6	240.6	224.6	208.6	192.6	176.6	160.6	144.4	128.2	111.9
152.5°	220.5	206.6	192.7	178.7	164.8	150.9	137.0	123.1	110.3	97.6	84.8
155°	167.3	155.1	142.8	130.5	118.2	106.0	93.7	81.4	72.8	64.2	55.7
157.5°	122.7	112.7	102.6	92.5	82.4	72.4	62.3	52.2	46.5	40.8	35.1
160°	78.4	71.6	64.9	58.2	51.5	44.7	38.0	31.3	27.8	24.3	20.9
162.5°	44.4	40.0	35.6	31.2	26.8	22.4	18.0	13.6	12.1	10.6	9.1
165°	20.6	18.4	16.2	14.0	11.8	9.6	7.4	5.2	4.6	4.0	3.5
167.5°	6.5	5.5	4.6	3.7	2.8	1.8	0.9	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: P201365

CATALOG NUMBER: 4LBLELD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1054.0	1052.0	1050.0	1048.1	1046.1	1044.1	1044.9	1045.7	1046.5	1047.3	1048.2
5°	1067.6	1064.4	1061.1	1057.9	1054.6	1051.4	1050.9	1050.5	1050.0	1049.5	1049.1
7.5°	1078.8	1074.1	1069.5	1064.9	1060.2	1055.6	1053.9	1052.1	1050.4	1048.6	1046.9
10°	1088.5	1082.1	1075.7	1069.4	1063.0	1056.6	1053.5	1050.4	1047.2	1044.1	1041.0
12.5°	1097.3	1089.0	1080.6	1072.3	1063.9	1055.6	1051.0	1046.3	1041.7	1037.1	1032.4
15°	1104.1	1093.7	1083.4	1073.1	1062.8	1052.5	1046.4	1040.2	1034.1	1027.9	1021.8
17.5°	1110.5	1097.7	1084.8	1071.9	1059.1	1046.2	1038.6	1030.9	1023.3	1015.6	1008.0
20°	1116.7	1100.9	1085.2	1069.4	1053.7	1037.9	1028.6	1019.3	1010.1	1000.8	991.5
22.5°	1124.1	1105.0	1085.9	1066.7	1047.6	1028.5	1017.5	1006.5	995.5	984.5	973.4
25°	1130.6	1107.8	1085.1	1062.4	1039.7	1017.0	1004.1	991.3	978.4	965.5	952.7
27.5°	1137.6	1111.2	1084.8	1058.3	1031.9	1005.5	990.7	975.8	961.0	946.2	931.3
30°	1141.9	1112.2	1082.4	1052.6	1022.8	993.0	975.8	958.7	941.5	924.4	907.2
32.5°	1146.1	1113.2	1080.3	1047.3	1014.4	981.5	961.9	942.3	922.8	903.2	883.6
35°	1150.3	1114.3	1078.2	1042.2	1006.1	970.1	947.6	925.1	902.6	880.1	857.7
37.5°	1156.5	1117.4	1078.2	1039.0	999.9	960.7	935.2	909.7	884.2	858.7	833.2
40°	1160.0	1118.0	1076.1	1034.1	992.2	950.2	921.5	892.7	864.0	835.3	806.5
42.5°	1162.9	1118.3	1073.7	1029.0	984.4	939.8	907.9	876.1	844.2	812.3	780.5
45°	1163.4	1115.7	1068.1	1020.5	972.8	925.2	890.4	855.7	820.9	786.1	751.4
47.5°	1163.0	1113.0	1062.9	1012.8	962.8	912.7	874.8	836.9	799.0	761.1	723.2
50°	1160.6	1108.1	1055.6	1003.1	950.6	898.1	857.2	816.3	775.4	734.5	693.5
52.5°	1156.1	1101.1	1046.2	991.3	936.3	881.4	837.7	794.0	750.3	706.6	663.0
55°	1150.5	1093.2	1035.8	978.4	921.1	863.7	817.5	771.2	725.0	678.7	632.5
57.5°	1143.9	1084.1	1024.3	964.5	904.7	844.9	796.1	747.3	698.5	649.7	601.0
60°	1135.1	1073.1	1011.1	949.1	887.1	825.1	773.9	722.6	671.4	620.2	568.9
62.5°	1125.7	1061.7	997.6	933.5	869.4	805.3	751.9	698.4	645.0	591.6	538.1
65°	1112.0	1046.1	980.1	914.2	848.2	782.3	726.9	671.5	616.1	560.7	505.3
67.5°	1096.7	1029.1	961.4	893.7	826.0	758.3	700.9	643.6	586.2	528.8	471.5
70°	1078.2	1009.0	939.8	870.6	801.4	732.2	673.4	614.7	555.9	497.2	438.4
72.5°	1056.9	986.5	916.2	845.8	775.5	705.1	645.2	585.3	525.3	465.4	405.5
75°	1032.8	961.6	890.5	819.3	748.2	677.0	616.3	555.5	494.8	434.1	373.3
77.5°	1003.6	932.4	861.3	790.1	719.0	647.8	586.6	525.4	464.2	403.0	341.8
80°	970.2	899.0	827.9	756.7	685.6	614.4	553.6	492.7	431.9	371.0	310.2
82.5°	938.6	868.0	797.3	726.6	655.9	585.2	524.7	464.2	403.7	343.2	282.7
85°	903.2	833.5	763.9	694.2	624.6	554.9	495.3	435.8	376.2	316.6	257.1
87.5°	868.7	800.3	731.9	663.6	595.2	526.8	468.6	410.4	352.2	294.0	235.9
90°	834.9	768.3	701.6	635.0	568.3	501.7	446.0	390.2	334.5	278.7	223.0
92.5°	810.8	745.5	680.1	614.7	549.4	484.0	430.2	376.4	322.7	268.9	215.1
95°	786.8	722.5	658.2	593.8	529.5	465.2	413.5	361.8	310.1	258.4	206.8
97.5°	762.2	699.2	636.3	573.4	510.4	447.5	397.8	348.1	298.3	248.6	198.9
100°	736.0	674.2	612.3	550.4	488.5	426.6	379.2	331.8	284.4	237.0	189.6
102.5°	707.8	647.1	586.5	525.9	465.3	404.7	359.7	314.8	269.8	224.8	179.9
105°	681.1	621.7	562.2	502.8	443.3	383.9	341.2	298.6	255.9	213.3	170.6
107.5°	653.4	595.1	536.8	478.5	420.2	361.9	321.7	281.5	241.3	201.1	160.8
110°	624.7	567.5	510.4	453.3	396.1	339.0	301.3	263.7	226.0	188.3	150.7



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	593.7	538.0	482.2	426.5	370.7	315.0	280.0	245.0	210.0	175.0	140.0
115°	561.8	507.4	453.1	398.7	344.4	290.0	257.8	225.6	193.3	161.1	128.9
117.5°	529.7	476.9	424.2	371.5	318.7	266.0	236.4	206.9	177.3	147.8	118.2
120°	495.0	443.8	392.6	341.3	290.1	238.9	212.4	185.8	159.3	132.7	106.2
122.5°	461.0	412.0	363.0	313.9	264.9	215.9	191.9	167.9	143.9	119.9	96.0
125°	425.9	379.4	332.8	286.2	239.6	193.0	171.6	150.1	128.7	107.2	85.8
127.5°	389.1	345.2	301.4	257.6	213.8	170.0	151.1	132.2	113.3	94.4	75.6
130°	351.0	310.3	269.5	228.7	187.9	147.1	130.8	114.4	98.1	81.7	65.4
132.5°	314.7	276.8	238.9	201.0	163.1	125.2	111.3	97.4	83.5	69.6	55.6
135°	279.9	244.8	209.7	174.5	139.4	104.3	92.7	81.1	69.5	57.9	46.4
137.5°	245.2	212.7	180.1	147.5	115.0	82.4	73.2	64.1	54.9	45.8	36.6
140°	209.7	179.4	149.2	118.9	88.7	58.4	51.9	45.4	38.9	32.4	26.0
142.5°	178.2	151.4	124.5	97.6	70.7	43.8	38.9	34.1	29.2	24.3	19.5
145°	147.9	124.3	100.8	77.3	53.7	30.2	26.8	23.5	20.1	16.8	13.4
147.5°	121.0	101.2	81.4	61.5	41.7	21.9	19.5	17.0	14.6	12.2	9.7
150°	95.7	79.5	63.3	47.0	30.8	14.6	13.0	11.4	9.7	8.1	6.5
152.5°	72.1	59.3	46.6	33.8	21.1	8.3	7.4	6.5	5.5	4.6	3.7
155°	47.1	38.5	29.9	21.4	12.8	4.2	3.7	3.3	2.8	2.3	1.9
157.5°	29.4	23.8	18.1	12.4	6.7	1.0	0.9	0.8	0.7	0.6	0.4
160°	17.4	13.9	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	7.6	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.9	2.3	1.7	1.2	0.6	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: P201365

CATALOG NUMBER: 4LBLEDD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1049.0	1049.8	1050.6	1051.4	1048.9	1046.3	1043.8	1041.2	1038.7	1036.1	1033.6
5°	1048.6	1048.1	1047.7	1047.2	1043.7	1040.3	1036.8	1033.3	1029.9	1026.4	1022.9
7.5°	1045.1	1043.4	1041.6	1039.9	1035.6	1031.3	1027.1	1022.8	1018.5	1014.2	1010.0
10°	1037.9	1034.7	1031.6	1028.5	1023.6	1018.8	1013.9	1009.0	1004.2	999.3	994.4
12.5°	1027.8	1023.2	1018.5	1013.9	1008.7	1003.5	998.2	993.0	987.8	982.6	977.3
15°	1015.6	1009.5	1003.3	997.2	991.8	986.3	980.9	975.4	970.0	964.5	959.1
17.5°	1000.3	992.7	985.0	977.4	972.1	966.7	961.4	956.1	950.7	945.4	940.1
20°	982.2	973.0	963.7	954.4	949.4	944.4	939.5	934.5	929.5	924.5	919.6
22.5°	962.4	951.4	940.4	929.4	925.0	920.6	916.2	911.8	907.3	902.9	898.5
25°	939.8	926.9	914.1	901.2	897.6	894.0	890.4	886.8	883.3	879.7	876.1
27.5°	916.5	901.7	886.8	872.0	869.7	867.4	865.0	862.7	860.4	858.1	855.7
30°	890.1	872.9	855.8	838.6	838.0	837.4	836.9	836.3	835.7	835.1	834.6
32.5°	864.0	844.5	824.9	805.3	806.8	808.3	809.8	811.3	812.8	814.3	815.8
35°	835.2	812.7	790.2	767.7	771.8	775.8	779.9	783.9	788.0	792.0	796.1
37.5°	807.7	782.2	756.7	731.2	737.7	744.2	750.7	757.2	763.6	770.1	776.6
40°	777.8	749.1	720.3	691.6	700.5	709.4	718.4	727.3	736.2	745.1	754.1
42.5°	748.6	716.7	684.9	653.0	664.5	675.9	687.4	698.9	710.3	721.8	733.3
45°	716.6	681.8	647.1	612.3	626.2	640.1	654.0	667.9	681.9	695.8	709.7
47.5°	685.3	647.4	609.5	571.6	588.1	604.5	621.0	637.4	653.9	670.3	686.8
50°	652.6	611.7	570.8	529.9	548.8	567.7	586.6	605.5	624.3	643.2	662.1
52.5°	619.3	575.6	531.9	488.2	509.2	530.2	551.1	572.1	593.1	614.1	635.0
55°	586.2	540.0	493.7	447.5	470.8	494.1	517.4	540.7	563.9	587.2	610.5
57.5°	552.2	503.4	454.6	405.8	431.5	457.2	483.0	508.7	534.4	560.1	585.9
60°	517.7	466.5	415.2	364.0	391.6	419.2	446.8	474.4	501.9	529.5	557.1
62.5°	484.7	431.3	377.8	324.4	354.1	383.7	413.4	443.1	472.7	502.4	532.1
65°	449.9	394.5	339.1	283.7	315.0	346.3	377.6	408.9	440.1	471.4	502.7
67.5°	414.1	356.7	299.4	242.0	275.3	308.5	341.8	375.1	408.3	441.6	474.9
70°	379.7	320.9	262.2	203.4	237.9	272.5	307.0	341.5	376.1	410.6	445.1
72.5°	345.6	285.6	225.7	165.8	201.3	236.7	272.2	307.7	343.1	378.6	414.1
75°	312.6	251.9	191.1	130.4	166.6	202.7	238.9	275.0	311.2	347.3	383.5
77.5°	280.6	219.4	158.2	97.0	133.6	170.2	206.9	243.5	280.1	316.7	353.4
80°	249.3	188.5	127.6	66.8	103.5	140.3	177.0	213.7	250.5	287.2	323.9
82.5°	222.2	161.7	101.2	40.7	77.1	113.5	149.9	186.3	222.6	259.0	295.4
85°	197.5	137.9	78.4	18.8	54.5	90.2	125.9	161.6	197.2	232.9	268.6
87.5°	177.7	119.5	61.3	3.1	38.0	72.9	107.8	142.7	177.5	212.4	247.3
90°	167.2	111.5	55.7	0.0	33.3	66.5	99.8	133.1	166.3	199.6	232.9
92.5°	161.3	107.6	53.8	0.0	31.8	63.5	95.3	127.0	158.8	190.5	222.3
95°	155.1	103.4	51.7	0.0	30.1	60.3	90.4	120.5	150.7	180.8	210.9
97.5°	149.2	99.4	49.7	0.0	28.4	56.8	85.2	113.6	142.0	170.4	198.8
100°	142.2	94.8	47.4	0.0	26.4	52.8	79.3	105.7	132.1	158.5	185.0
102.5°	134.9	89.9	45.0	0.0	24.8	49.6	74.4	99.2	124.0	148.8	173.6
105°	128.0	85.3	42.7	0.0	23.1	46.1	69.2	92.3	115.3	138.4	161.5
107.5°	120.6	80.4	40.2	0.0	21.3	42.6	64.0	85.3	106.6	127.9	149.3
110°	113.0	75.3	37.7	0.0	19.6	39.2	58.8	78.4	97.9	117.5	137.1



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	105.0	70.0	35.0	0.0	17.8	35.7	53.5	71.4	89.2	107.1	124.9
115°	96.7	64.4	32.2	0.0	16.1	32.2	48.3	64.4	80.6	96.7	112.8
117.5°	88.7	59.1	29.6	0.0	14.4	28.7	43.1	57.5	71.8	86.2	100.6
120°	79.6	53.1	26.5	0.0	12.7	25.5	38.2	51.0	63.7	76.5	89.2
122.5°	72.0	48.0	24.0	0.0	11.0	22.0	33.0	44.0	55.1	66.1	77.1
125°	64.3	42.9	21.4	0.0	9.3	18.5	27.8	37.1	46.3	55.6	64.9
127.5°	56.7	37.8	18.9	0.0	7.5	15.1	22.6	30.1	37.7	45.2	52.7
130°	49.0	32.7	16.3	0.0	5.9	11.8	17.7	23.6	29.6	35.5	41.4
132.5°	41.7	27.8	13.9	0.0	4.4	8.8	13.2	17.6	22.0	26.4	30.8
135°	34.8	23.2	11.6	0.0	3.1	6.3	9.4	12.5	15.7	18.8	21.9
137.5°	27.5	18.3	9.2	0.0	2.1	4.2	6.3	8.4	10.4	12.5	14.6
140°	19.5	13.0	6.5	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.1
142.5°	14.6	9.7	4.9	0.0	0.6	1.2	1.7	2.3	2.9	3.5	4.0
145°	10.1	6.7	3.4	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
147.5°	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.2	0.1	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: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1031.0	1028.5	1027.9	1027.3	1026.8	1026.2	1025.6	1025.0	1024.5	1023.9	1023.3
5°	1019.5	1016.0	1014.8	1013.7	1012.5	1011.3	1010.2	1009.0	1007.8	1006.7	1005.5
7.5°	1005.7	1001.4	1000.1	998.8	997.6	996.3	995.0	993.7	992.5	991.2	989.9
10°	989.6	984.7	983.7	982.6	981.6	980.5	979.5	978.4	977.4	976.3	975.3
12.5°	972.1	966.9	966.7	966.4	966.2	966.0	965.7	965.5	965.3	965.0	964.8
15°	953.6	948.2	949.4	950.5	951.7	952.8	954.0	955.1	956.3	957.4	958.6
17.5°	934.7	929.4	932.8	936.1	939.5	942.8	946.2	949.5	952.9	956.2	959.6
20°	914.6	909.6	916.3	923.0	929.8	936.5	943.2	949.9	956.7	963.4	970.1
22.5°	894.1	889.7	899.7	909.6	919.6	929.6	939.5	949.5	959.5	969.4	979.4
25°	872.5	868.9	882.1	895.3	908.5	921.7	935.0	948.2	961.4	974.6	987.8
27.5°	853.4	851.1	867.1	883.1	899.1	915.1	931.1	947.1	963.1	979.1	995.1
30°	834.0	833.4	852.1	870.7	889.4	908.1	926.7	945.4	964.1	982.7	1001.4
32.5°	817.3	818.8	839.5	860.3	881.0	901.8	922.5	943.3	964.0	984.8	1005.5
35°	800.1	804.2	826.8	849.4	872.0	894.6	917.2	939.8	962.4	985.0	1007.6
37.5°	783.1	789.6	814.2	838.7	863.3	887.9	912.4	937.0	961.6	986.1	1010.7
40°	763.0	771.9	798.6	825.2	851.9	878.5	905.2	931.8	958.5	985.1	1011.8
42.5°	744.7	756.2	784.6	813.0	841.4	869.8	898.2	926.6	955.0	983.4	1011.8
45°	723.6	737.5	768.0	798.5	828.9	859.4	889.9	920.4	950.8	981.3	1011.8
47.5°	703.2	719.7	752.0	784.4	816.7	849.0	881.4	913.7	946.0	978.4	1010.7
50°	681.0	699.9	734.2	768.5	802.8	837.1	871.5	905.8	940.1	974.4	1008.7
52.5°	656.0	677.0	713.5	750.0	786.5	823.0	859.5	896.0	932.5	969.0	1005.5
55°	633.8	657.1	695.4	733.6	771.9	810.1	848.4	886.6	924.9	963.1	1001.4
57.5°	611.6	637.3	677.4	717.5	757.6	797.7	837.8	877.9	918.0	958.1	998.2
60°	584.7	612.3	654.7	697.1	739.6	782.0	824.4	866.8	909.3	951.7	994.1
62.5°	561.7	591.4	635.6	679.7	723.9	768.0	812.2	856.3	900.5	944.6	988.8
65°	534.0	565.3	611.7	658.0	704.4	750.8	797.1	843.5	889.9	936.2	982.6
67.5°	508.1	541.4	589.4	637.4	685.3	733.3	781.3	829.3	877.2	925.2	973.2
70°	479.7	514.2	563.6	613.0	662.3	711.7	761.1	810.5	859.8	909.2	958.6
72.5°	449.5	485.0	535.2	585.4	635.6	685.8	735.9	786.1	836.3	886.5	936.7
75°	419.6	455.8	506.0	556.2	606.4	656.6	706.7	756.9	807.1	857.3	907.5
77.5°	390.0	426.6	476.1	525.6	575.1	624.6	674.0	723.5	773.0	822.5	872.0
80°	360.7	397.4	445.6	493.8	542.0	590.2	638.5	686.7	734.9	783.1	831.3
82.5°	331.8	368.2	415.1	462.1	509.0	556.0	602.9	649.9	696.8	743.8	790.7
85°	304.3	340.0	385.6	431.1	476.7	522.2	567.8	613.3	658.9	704.4	750.0
87.5°	282.2	317.1	361.1	405.2	449.2	493.3	537.3	581.4	625.4	669.5	713.5
90°	266.1	299.4	342.2	384.9	427.7	470.5	513.2	556.0	598.8	641.5	684.3
92.5°	254.0	285.8	327.2	368.6	409.9	451.3	492.7	534.1	575.4	616.8	658.2
95°	241.1	271.2	311.6	352.1	392.5	433.0	473.4	513.9	554.3	594.8	635.2
97.5°	227.2	255.6	295.1	334.6	374.1	413.6	453.2	492.7	532.2	571.7	611.2
100°	211.4	237.8	276.7	315.7	354.6	393.6	432.5	471.5	510.4	549.4	588.3
102.5°	198.4	223.2	261.1	299.0	336.9	374.8	412.7	450.6	488.5	526.4	564.3
105°	184.5	207.6	244.6	281.5	318.5	355.5	392.4	429.4	466.4	503.3	540.3
107.5°	170.6	191.9	227.7	263.5	299.3	335.1	371.0	406.8	442.6	478.4	514.2
110°	156.7	176.3	211.0	245.6	280.3	314.9	349.6	384.2	418.9	453.5	488.2



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	142.8	160.6	194.2	227.8	261.4	295.0	328.7	362.3	395.9	429.5	463.1
115°	128.9	145.0	177.3	209.7	242.0	274.3	306.7	339.0	371.3	403.7	436.0
117.5°	114.9	129.3	160.4	191.4	222.5	253.6	284.6	315.7	346.8	377.8	408.9
120°	102.0	114.7	144.4	174.1	203.7	233.4	263.1	292.8	322.4	352.1	381.8
122.5°	88.1	99.1	127.4	155.7	183.9	212.2	240.5	268.8	297.0	325.3	353.6
125°	74.1	83.4	110.2	137.0	163.7	190.5	217.3	244.1	270.8	297.6	324.4
127.5°	60.3	67.8	92.7	117.6	142.6	167.5	192.4	217.3	242.3	267.2	292.1
130°	47.3	53.2	75.9	98.6	121.3	144.0	166.8	189.5	212.2	234.9	257.6
132.5°	35.2	39.6	59.8	79.9	100.1	120.3	140.4	160.6	180.8	200.9	221.1
135°	25.1	28.2	46.0	63.9	81.7	99.6	117.4	135.3	153.1	171.0	188.8
137.5°	16.7	18.8	34.3	49.8	65.4	80.9	96.4	111.9	127.5	143.0	158.5
140°	9.2	10.4	23.8	37.3	50.7	64.2	77.6	91.1	104.5	118.0	131.4
142.5°	4.6	5.2	16.4	27.7	38.9	50.2	61.4	72.7	83.9	95.2	106.4
145°	1.9	2.1	10.9	19.7	28.5	37.3	46.2	55.0	63.8	72.6	81.4
147.5°	0.0	0.0	6.7	13.4	20.2	26.9	33.6	40.3	47.1	53.8	60.5
150°	0.0	0.0	4.6	9.3	13.9	18.5	23.2	27.8	32.4	37.1	41.7
152.5°	0.0	0.0	2.9	5.8	8.7	11.6	14.5	17.4	20.3	23.2	26.1
155°	0.0	0.0	1.5	3.0	4.5	6.0	7.6	9.1	10.6	12.1	13.6
157.5°	0.0	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2
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: P201365

CATALOG NUMBER: 4LBLEDD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1022.1	1021.0	1019.8	1018.6	1017.5	1016.3	1015.1	1014.0	1012.8	1012.0	1011.2
5°	1004.2	1003.0	1001.7	1000.4	999.2	997.9	996.6	995.4	994.1	993.7	993.4
7.5°	989.0	988.0	987.1	986.2	985.2	984.3	983.4	982.4	981.5	981.3	981.0
10°	975.4	975.5	975.6	975.7	975.9	976.0	976.1	976.2	976.3	976.3	976.3
12.5°	966.4	968.0	969.7	971.3	972.9	974.5	976.2	977.8	979.4	980.2	981.0
15°	962.9	967.2	971.5	975.8	980.0	984.3	988.6	992.9	997.2	999.1	1000.9
17.5°	966.3	973.0	979.8	986.5	993.2	999.9	1006.7	1013.4	1020.1	1022.5	1025.0
20°	978.1	986.1	994.1	1002.1	1010.0	1018.0	1026.0	1034.0	1042.0	1044.9	1047.8
22.5°	988.6	997.7	1006.9	1016.1	1025.2	1034.4	1043.6	1052.7	1061.9	1065.3	1068.6
25°	998.2	1008.7	1019.1	1029.5	1040.0	1050.4	1060.8	1071.3	1081.7	1085.4	1089.1
27.5°	1006.8	1018.5	1030.2	1041.9	1053.6	1065.3	1077.0	1088.7	1100.4	1104.7	1109.0
30°	1014.3	1027.1	1040.0	1052.8	1065.7	1078.5	1091.4	1104.2	1117.1	1122.2	1127.3
32.5°	1020.0	1034.5	1049.0	1063.5	1077.9	1092.4	1106.9	1121.4	1135.9	1141.6	1147.3
35°	1023.6	1039.6	1055.6	1071.6	1087.6	1103.6	1119.6	1135.6	1151.6	1158.2	1164.8
37.5°	1028.2	1045.7	1063.2	1080.7	1098.2	1115.7	1133.2	1150.7	1168.2	1175.6	1183.0
40°	1031.0	1050.3	1069.5	1088.7	1108.0	1127.2	1146.4	1165.7	1184.9	1193.1	1201.4
42.5°	1032.9	1054.0	1075.1	1096.2	1117.2	1138.3	1159.4	1180.5	1201.6	1210.9	1220.2
45°	1034.9	1057.9	1081.0	1104.1	1127.1	1150.2	1173.3	1196.3	1219.4	1229.6	1239.8
47.5°	1035.9	1061.0	1086.2	1111.3	1136.5	1161.6	1186.8	1211.9	1237.1	1248.5	1259.8
50°	1036.2	1063.6	1091.1	1118.6	1146.0	1173.5	1201.0	1228.4	1255.9	1268.2	1280.5
52.5°	1035.4	1065.3	1095.2	1125.1	1155.0	1184.9	1214.8	1244.7	1274.6	1287.9	1301.3
55°	1033.7	1066.1	1098.4	1130.7	1163.1	1195.4	1227.7	1260.1	1292.4	1306.7	1320.9
57.5°	1032.9	1067.5	1102.2	1136.8	1171.5	1206.1	1240.8	1275.4	1310.1	1324.8	1339.5
60°	1030.7	1067.3	1104.0	1140.6	1177.2	1213.8	1250.5	1287.1	1323.7	1338.9	1354.1
62.5°	1027.1	1065.3	1103.6	1141.8	1180.1	1218.3	1256.6	1294.8	1333.1	1348.5	1363.9
65°	1021.9	1061.2	1100.5	1139.8	1179.0	1218.3	1257.6	1296.9	1336.2	1351.8	1367.5
67.5°	1013.2	1053.2	1093.2	1133.2	1173.1	1213.1	1253.1	1293.1	1333.1	1348.7	1364.4
70°	998.9	1039.3	1079.6	1119.9	1160.3	1200.6	1240.9	1281.3	1321.6	1337.0	1352.4
72.5°	976.7	1016.7	1056.6	1096.6	1136.6	1176.6	1216.5	1256.5	1296.5	1311.7	1326.9
75°	946.8	986.1	1025.4	1064.7	1103.9	1143.2	1182.5	1221.8	1261.1	1275.6	1290.1
77.5°	910.8	949.6	988.5	1027.3	1066.1	1104.9	1143.8	1182.6	1221.4	1234.8	1248.3
80°	869.0	906.6	944.3	982.0	1019.6	1057.3	1095.0	1132.6	1170.3	1183.4	1196.5
82.5°	827.0	863.2	899.5	935.8	972.0	1008.3	1044.6	1080.8	1117.1	1130.0	1142.8
85°	785.0	820.0	855.0	890.0	925.0	960.0	995.0	1030.0	1065.0	1077.6	1090.3
87.5°	747.2	780.9	814.7	848.4	882.1	915.8	949.6	983.3	1017.0	1029.3	1041.6
90°	716.6	749.0	781.3	813.6	846.0	878.3	910.6	943.0	975.3	987.2	999.2
92.5°	689.6	721.0	752.4	783.8	815.3	846.7	878.1	909.5	940.9	952.1	963.4
95°	665.2	695.2	725.3	755.3	785.3	815.3	845.4	875.4	905.4	916.5	927.6
97.5°	640.2	669.2	698.1	727.1	756.1	785.1	814.0	843.0	872.0	882.9	893.8
100°	616.5	644.6	672.8	701.0	729.1	757.3	785.5	813.6	841.8	852.3	862.9
102.5°	591.9	619.5	647.1	674.7	702.2	729.8	757.4	785.0	812.6	822.8	833.0
105°	567.2	594.1	621.0	647.9	674.7	701.6	728.5	755.4	782.3	792.3	802.2
107.5°	540.4	566.6	592.8	619.0	645.2	671.4	697.6	723.8	750.0	759.8	769.7
110°	513.7	539.2	564.7	590.2	615.6	641.1	666.6	692.1	717.6	727.1	736.6



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	487.6	512.0	536.5	560.9	585.4	609.8	634.3	658.7	683.2	692.5	701.8
115°	459.6	483.3	506.9	530.6	554.2	577.9	601.5	625.2	648.8	657.8	666.9
117.5°	431.7	454.6	477.4	500.2	523.1	545.9	568.7	591.6	614.4	623.1	631.8
120°	403.7	425.6	447.5	469.4	491.3	513.2	535.1	557.0	578.9	587.4	595.8
122.5°	374.7	395.8	416.9	438.0	459.0	480.1	501.2	522.3	543.4	551.6	559.9
125°	344.6	364.7	384.9	405.1	425.2	445.4	465.6	485.7	505.9	513.8	521.7
127.5°	311.6	331.0	350.5	370.0	389.4	408.9	428.4	447.8	467.3	474.9	482.6
130°	276.7	295.8	315.0	334.1	353.2	372.3	391.5	410.6	429.7	436.9	444.1
132.5°	239.9	258.7	277.4	296.2	315.0	333.8	352.5	371.3	390.1	397.1	404.0
135°	206.9	225.0	243.0	261.1	279.2	297.3	315.3	333.4	351.5	357.9	364.3
137.5°	175.4	192.3	209.3	226.2	243.1	260.0	277.0	293.9	310.8	317.3	323.8
140°	146.6	161.8	177.0	192.2	207.3	222.5	237.7	252.9	268.1	274.8	281.5
142.5°	119.4	132.4	145.3	158.3	171.3	184.3	197.2	210.2	223.2	230.6	238.0
145°	92.8	104.1	115.5	126.8	138.2	149.5	160.9	172.2	183.6	191.0	198.4
147.5°	70.1	79.7	89.4	99.0	108.6	118.2	127.9	137.5	147.1	154.2	161.2
150°	49.7	57.7	65.7	73.7	81.7	89.7	97.7	105.7	113.7	120.5	127.4
152.5°	32.8	39.5	46.3	53.0	59.7	66.4	73.2	79.9	86.6	92.5	98.4
155°	18.7	23.8	28.9	34.0	39.1	44.2	49.3	54.4	59.5	64.6	69.7
157.5°	7.8	11.4	15.0	18.6	22.1	25.7	29.3	32.9	36.5	40.7	44.9
160°	2.0	3.9	5.9	7.9	9.8	11.8	13.8	15.7	17.7	20.7	23.7
162.5°	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	6.1	7.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2
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: P201365

CATALOG NUMBER: 4LBLEDD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1010.4	1009.6	1008.7	1007.9	1007.1	1006.3	1005.5	1006.4	1007.4	1008.3	1009.2
5°	993.0	992.7	992.3	992.0	991.6	991.3	990.9	991.3	991.6	992.0	992.3
7.5°	980.8	980.6	980.3	980.1	979.9	979.6	979.4	979.5	979.6	979.8	979.9
10°	976.3	976.3	976.3	976.3	976.3	976.3	976.3	976.0	975.6	975.3	974.9
12.5°	981.8	982.6	983.5	984.3	985.1	985.9	986.7	985.4	984.2	982.9	981.6
15°	1002.8	1004.6	1006.5	1008.3	1010.2	1012.0	1013.9	1011.8	1009.7	1007.6	1005.5
17.5°	1027.4	1029.8	1032.3	1034.7	1037.1	1039.6	1042.0	1039.5	1036.9	1034.4	1031.8
20°	1050.7	1053.6	1056.5	1059.4	1062.3	1065.2	1068.1	1064.7	1061.4	1058.0	1054.7
22.5°	1072.0	1075.3	1078.7	1082.0	1085.4	1088.7	1092.1	1088.2	1084.2	1080.3	1076.3
25°	1092.8	1096.5	1100.2	1103.9	1107.6	1111.3	1115.0	1110.7	1106.4	1102.2	1097.9
27.5°	1113.3	1117.6	1121.8	1126.1	1130.4	1134.7	1139.0	1134.3	1129.5	1124.8	1120.0
30°	1132.4	1137.5	1142.6	1147.7	1152.8	1157.9	1163.0	1157.4	1151.9	1146.3	1140.8
32.5°	1152.9	1158.6	1164.3	1170.0	1175.6	1181.3	1187.0	1181.0	1175.0	1168.9	1162.9
35°	1171.4	1178.0	1184.6	1191.2	1197.8	1204.4	1211.0	1204.3	1197.6	1190.8	1184.1
37.5°	1190.5	1197.9	1205.3	1212.7	1220.2	1227.6	1235.0	1227.6	1220.2	1212.7	1205.3
40°	1209.6	1217.8	1226.1	1234.3	1242.5	1250.8	1259.0	1250.9	1242.8	1234.7	1226.6
42.5°	1229.4	1238.7	1248.0	1257.3	1266.5	1275.8	1285.1	1276.3	1267.5	1258.7	1249.9
45°	1250.0	1260.2	1270.3	1280.5	1290.7	1300.9	1311.1	1301.5	1291.9	1282.3	1272.7
47.5°	1271.2	1282.5	1293.9	1305.2	1316.6	1327.9	1339.3	1328.8	1318.2	1307.7	1297.1
50°	1292.7	1305.0	1317.3	1329.6	1341.8	1354.1	1366.4	1355.0	1343.7	1332.3	1321.0
52.5°	1314.6	1327.9	1341.3	1354.6	1367.9	1381.3	1394.6	1382.4	1370.3	1358.1	1345.9
55°	1335.2	1349.4	1363.7	1377.9	1392.2	1406.4	1420.7	1407.7	1394.7	1381.7	1368.7
57.5°	1354.3	1369.0	1383.7	1398.4	1413.2	1427.9	1442.6	1429.3	1415.9	1402.6	1389.3
60°	1369.2	1384.4	1399.6	1414.8	1429.9	1445.1	1460.3	1446.6	1432.9	1419.3	1405.6
62.5°	1379.3	1394.7	1410.2	1425.6	1441.0	1456.4	1471.8	1458.1	1444.4	1430.8	1417.1
65°	1383.1	1398.8	1414.4	1430.1	1445.7	1461.4	1477.0	1463.2	1449.4	1435.6	1421.8
67.5°	1380.0	1395.7	1411.3	1427.0	1442.6	1458.3	1473.9	1460.2	1446.5	1432.9	1419.2
70°	1367.8	1383.2	1398.7	1414.1	1429.5	1444.9	1460.3	1446.6	1432.9	1419.3	1405.6
72.5°	1342.1	1357.3	1372.4	1387.6	1402.8	1418.0	1433.2	1419.8	1406.3	1392.9	1379.4
75°	1304.6	1319.1	1333.5	1348.0	1362.5	1377.0	1391.5	1378.7	1366.0	1353.2	1340.5
77.5°	1261.7	1275.2	1288.6	1302.1	1315.5	1329.0	1342.4	1330.0	1317.6	1305.2	1292.8
80°	1209.6	1222.7	1235.8	1248.9	1262.0	1275.1	1288.2	1276.0	1263.9	1251.7	1239.5
82.5°	1155.7	1168.6	1181.4	1194.3	1207.2	1220.0	1232.9	1221.0	1209.0	1197.1	1185.2
85°	1102.9	1115.5	1128.2	1140.8	1153.4	1166.1	1178.7	1166.8	1154.8	1142.9	1130.9
87.5°	1053.9	1066.2	1078.4	1090.7	1103.0	1115.3	1127.6	1115.9	1104.2	1092.5	1080.8
90°	1011.1	1023.0	1035.0	1046.9	1058.8	1070.8	1082.7	1071.3	1060.0	1048.6	1037.3
92.5°	974.6	985.8	997.1	1008.3	1019.5	1030.8	1042.0	1031.1	1020.2	1009.3	998.4
95°	938.8	949.9	961.0	972.1	983.3	994.4	1005.5	995.0	984.4	973.9	963.3
97.5°	904.7	915.6	926.5	937.4	948.3	959.2	970.1	959.9	949.7	939.5	929.3
100°	873.4	884.0	894.5	905.1	915.6	926.2	936.7	926.8	917.0	907.1	897.3
102.5°	843.2	853.4	863.5	873.7	883.9	894.1	904.3	894.6	884.8	875.1	865.4
105°	812.2	822.2	832.1	842.1	852.1	862.0	872.0	862.6	853.2	843.8	834.4
107.5°	779.5	789.4	799.2	809.1	818.9	828.8	838.6	829.2	819.8	810.4	801.0
110°	746.1	755.6	765.2	774.7	784.2	793.7	803.2	794.0	784.9	775.7	766.6



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	711.0	720.3	729.6	738.9	748.1	757.4	766.7	757.8	748.8	739.9	731.0
115°	675.9	685.0	694.0	703.1	712.1	721.2	730.2	721.5	712.8	704.1	695.4
117.5°	640.5	649.2	657.8	666.5	675.2	683.9	692.6	684.4	676.1	667.9	659.7
120°	604.3	612.8	621.2	629.7	638.2	646.6	655.1	647.1	639.1	631.1	623.1
122.5°	568.1	576.3	584.6	592.8	601.0	609.3	617.5	609.7	602.0	594.2	586.4
125°	529.5	537.4	545.3	553.2	561.0	568.9	576.8	569.5	562.2	554.9	547.6
127.5°	490.2	497.9	505.5	513.2	520.8	528.5	536.1	529.3	522.4	515.6	508.8
130°	451.3	458.5	465.6	472.8	480.0	487.2	494.4	487.9	481.4	474.9	468.4
132.5°	411.0	417.9	424.9	431.8	438.8	445.7	452.7	446.6	440.4	434.3	428.1
135°	370.6	377.0	383.4	389.8	396.1	402.5	408.9	403.5	398.0	392.6	387.1
137.5°	330.3	336.8	343.2	349.7	356.2	362.7	369.2	364.1	359.0	353.9	348.8
140°	288.3	295.0	301.7	308.4	315.2	321.9	328.6	324.0	319.3	314.7	310.0
142.5°	245.5	252.9	260.3	267.7	275.2	282.6	290.0	285.7	281.4	277.1	272.8
145°	205.8	213.2	220.7	228.1	235.5	242.9	250.3	246.4	242.4	238.5	234.6
147.5°	168.3	175.4	182.4	189.5	196.6	203.6	210.7	207.5	204.2	201.0	197.7
150°	134.2	141.0	147.9	154.7	161.5	168.4	175.2	172.2	169.2	166.2	163.2
152.5°	104.3	110.2	116.2	122.1	128.0	133.9	139.8	137.1	134.5	131.8	129.1
155°	74.8	79.9	85.0	90.1	95.2	100.3	105.4	103.3	101.2	99.1	97.0
157.5°	49.0	53.2	57.4	61.6	65.7	69.9	74.1	72.4	70.6	68.9	67.1
160°	26.8	29.8	32.8	35.8	38.9	41.9	44.9	43.7	42.6	41.4	40.2
162.5°	9.8	11.6	13.5	15.3	17.2	19.0	20.9	20.3	19.7	19.1	18.5
165°	1.7	2.3	2.9	3.5	4.0	4.6	5.2	5.2	5.2	5.2	5.2
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: P201365

CATALOG NUMBER: 4LBLEDD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1010.2	1011.1	1012.0	1013.0	1013.9	1015.4	1016.9	1018.4	1019.9	1021.4	1022.9
5°	992.7	993.0	993.4	993.7	994.1	995.8	997.6	999.3	1001.0	1002.8	1004.5
7.5°	980.0	980.1	980.3	980.4	980.5	982.0	983.5	985.0	986.5	988.1	989.6
10°	974.6	974.2	973.9	973.5	973.2	974.1	975.0	976.0	976.9	977.8	978.7
12.5°	980.4	979.1	977.8	976.6	975.3	974.9	974.6	974.2	973.9	973.5	973.2
15°	1003.5	1001.4	999.3	997.2	995.1	992.0	988.8	985.7	982.6	979.4	976.3
17.5°	1029.3	1026.7	1024.2	1021.6	1019.1	1013.4	1007.7	1002.1	996.4	990.7	985.0
20°	1051.3	1048.0	1044.6	1041.3	1037.9	1031.1	1024.2	1017.4	1010.5	1003.7	996.8
22.5°	1072.4	1068.4	1064.5	1060.5	1056.6	1048.7	1040.8	1033.0	1025.1	1017.2	1009.3
25°	1093.6	1089.3	1085.1	1080.8	1076.5	1067.2	1057.9	1048.7	1039.4	1030.1	1020.8
27.5°	1115.3	1110.5	1105.8	1101.0	1096.3	1085.6	1075.0	1064.3	1053.6	1043.0	1032.3
30°	1135.2	1129.7	1124.1	1118.6	1113.0	1101.1	1089.1	1077.2	1065.2	1053.3	1041.3
32.5°	1156.9	1150.9	1144.8	1138.8	1132.8	1119.0	1105.2	1091.4	1077.6	1063.9	1050.1
35°	1177.4	1170.7	1163.9	1157.2	1150.5	1135.1	1119.7	1104.3	1088.9	1073.4	1058.0
37.5°	1197.9	1190.5	1183.0	1175.6	1168.2	1151.3	1134.4	1117.5	1100.6	1083.6	1066.7
40°	1218.4	1210.3	1202.2	1194.1	1186.0	1167.5	1148.9	1130.4	1111.8	1093.3	1074.7
42.5°	1241.0	1232.2	1223.4	1214.6	1205.8	1185.4	1165.0	1144.6	1124.2	1103.8	1083.4
45°	1263.0	1253.4	1243.8	1234.2	1224.6	1202.1	1179.6	1157.1	1134.6	1112.2	1089.7
47.5°	1286.6	1276.0	1265.5	1254.9	1244.4	1219.7	1195.0	1170.3	1145.6	1121.0	1096.3
50°	1309.6	1298.3	1286.9	1275.6	1264.2	1237.2	1210.2	1183.2	1156.2	1129.2	1102.2
52.5°	1333.8	1321.6	1309.4	1297.3	1285.1	1255.5	1226.0	1196.4	1166.9	1137.3	1107.8
55°	1355.8	1342.8	1329.8	1316.8	1303.8	1271.9	1240.1	1208.2	1176.3	1144.5	1112.6
57.5°	1375.9	1362.6	1349.3	1335.9	1322.6	1288.4	1254.2	1220.0	1185.8	1151.7	1117.5
60°	1391.9	1378.2	1364.6	1350.9	1337.2	1301.0	1264.9	1228.7	1192.6	1156.4	1120.3
62.5°	1403.4	1389.7	1376.1	1362.4	1348.7	1310.8	1272.9	1235.0	1197.1	1159.2	1121.3
65°	1408.1	1394.3	1380.5	1366.7	1352.9	1313.7	1274.5	1235.4	1196.2	1157.0	1117.8
67.5°	1405.5	1391.8	1378.2	1364.5	1350.8	1310.8	1270.8	1230.8	1190.8	1150.9	1110.9
70°	1391.9	1378.2	1364.6	1350.9	1337.2	1297.0	1256.8	1216.6	1176.4	1136.1	1095.9
72.5°	1366.0	1352.5	1339.1	1325.6	1312.2	1272.2	1232.2	1192.2	1152.2	1112.3	1072.3
75°	1327.7	1315.0	1302.2	1289.5	1276.7	1237.4	1198.1	1158.8	1119.5	1080.3	1041.0
77.5°	1280.4	1268.0	1255.6	1243.2	1230.8	1192.4	1154.1	1115.7	1077.4	1039.0	1000.7
80°	1227.4	1215.2	1203.0	1190.9	1178.7	1141.6	1104.5	1067.4	1030.3	993.3	956.2
82.5°	1173.2	1161.3	1149.4	1137.4	1125.5	1089.5	1053.4	1017.4	981.3	945.3	909.2
85°	1119.0	1107.0	1095.1	1083.1	1071.2	1036.6	1001.9	967.3	932.6	898.0	863.3
87.5°	1069.0	1057.3	1045.6	1033.9	1022.2	988.9	955.7	922.4	889.2	855.9	822.7
90°	1025.9	1014.6	1003.2	991.9	980.5	948.6	916.7	884.9	853.0	821.1	789.2
92.5°	987.6	976.7	965.8	954.9	944.0	913.4	882.8	852.2	821.6	791.0	760.4
95°	952.8	942.2	931.7	921.1	910.6	881.2	851.7	822.3	792.9	763.4	734.0
97.5°	919.1	908.9	898.7	888.5	878.3	849.8	821.3	792.8	764.3	735.7	707.2
100°	887.4	877.6	867.7	857.9	848.0	820.0	791.9	763.9	735.8	707.8	679.7
102.5°	855.6	845.9	836.2	826.4	816.7	789.5	762.2	735.0	707.8	680.5	653.3
105°	825.1	815.7	806.3	796.9	787.5	760.8	734.2	707.5	680.9	654.2	627.6
107.5°	791.7	782.3	772.9	763.5	754.1	728.5	702.9	677.3	651.7	626.0	600.4
110°	757.4	748.3	739.1	730.0	720.8	696.1	671.4	646.7	622.0	597.4	572.7



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	722.0	713.1	704.2	695.2	686.3	662.7	639.0	615.4	591.8	568.1	544.5
115°	686.7	678.0	669.3	660.6	651.9	629.1	606.2	583.4	560.6	537.7	514.9
117.5°	651.4	643.2	635.0	626.7	618.5	596.5	574.5	552.5	530.5	508.4	486.4
120°	615.1	607.1	599.1	591.1	583.1	561.9	540.7	519.5	498.3	477.0	455.8
122.5°	578.7	570.9	563.1	555.4	547.6	527.2	506.8	486.4	466.0	445.6	425.2
125°	540.3	533.0	525.7	518.4	511.1	491.5	471.9	452.3	432.7	413.2	393.6
127.5°	501.9	495.1	488.3	481.4	474.6	455.8	437.0	418.3	399.5	380.7	361.9
130°	462.0	455.5	449.0	442.5	436.0	418.5	401.0	383.5	366.0	348.5	331.0
132.5°	422.0	415.8	409.7	403.5	397.4	381.1	364.7	348.4	332.0	315.7	299.3
135°	381.7	376.2	370.8	365.3	359.9	344.5	329.1	313.6	298.2	282.8	267.4
137.5°	343.8	338.7	333.6	328.5	323.4	309.1	294.9	280.6	266.4	252.1	237.9
140°	305.4	300.7	296.1	291.4	286.8	273.6	260.4	247.2	234.0	220.7	207.5
142.5°	268.6	264.3	260.0	255.7	251.4	239.3	227.3	215.2	203.2	191.1	179.1
145°	230.6	226.7	222.8	218.8	214.9	204.1	193.3	182.6	171.8	161.0	150.2
147.5°	194.5	191.2	188.0	184.7	181.5	171.9	162.3	152.6	143.0	133.4	123.8
150°	160.1	157.1	154.1	151.1	148.1	139.6	131.2	122.7	114.3	105.8	97.4
152.5°	126.5	123.8	121.1	118.5	115.8	108.6	101.4	94.2	87.0	79.9	72.7
155°	95.0	92.9	90.8	88.7	86.6	80.7	74.8	68.9	63.0	57.0	51.1
157.5°	65.4	63.6	61.9	60.1	58.4	53.9	49.4	44.8	40.3	35.8	31.3
160°	39.1	37.9	36.7	35.6	34.4	31.6	28.8	26.1	23.3	20.5	17.7
162.5°	18.0	17.4	16.8	16.2	15.6	14.3	13.1	11.8	10.5	9.3	8.0
165°	5.2	5.2	5.2	5.2	5.2	4.7	4.3	3.8	3.3	2.9	2.4
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: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1024.4	1025.9	1027.4	1028.0	1028.6	1029.1	1029.7	1030.3	1030.9	1031.4	1032.0
5°	1006.2	1008.0	1009.7	1010.7	1011.8	1012.8	1013.9	1014.9	1016.0	1017.0	1018.1
7.5°	991.1	992.6	994.1	995.1	996.2	997.2	998.2	999.3	1000.3	1001.3	1002.4
10°	979.7	980.6	981.5	982.1	982.7	983.2	983.8	984.4	985.0	985.5	986.1
12.5°	972.8	972.5	972.1	971.6	971.2	970.7	970.3	969.8	969.4	968.9	968.5
15°	973.2	970.0	966.9	964.8	962.7	960.7	958.6	956.5	954.4	952.4	950.3
17.5°	979.4	973.7	968.0	963.8	959.6	955.5	951.3	947.1	942.9	938.8	934.6
20°	990.0	983.1	976.3	968.9	961.5	954.1	946.7	939.2	931.8	924.4	917.0
22.5°	1001.5	993.6	985.7	975.0	964.4	953.7	943.0	932.4	921.7	911.0	900.4
25°	1011.6	1002.3	993.0	979.2	965.4	951.6	937.8	924.1	910.3	896.5	882.7
27.5°	1021.6	1011.0	1000.3	983.6	966.9	950.2	933.5	916.9	900.2	883.5	866.8
30°	1029.4	1017.4	1005.5	986.4	967.3	948.1	929.0	909.9	890.8	871.6	852.5
32.5°	1036.3	1022.5	1008.7	987.6	966.5	945.4	924.3	903.2	882.1	861.0	839.9
35°	1042.6	1027.2	1011.8	988.9	965.9	943.0	920.0	897.1	874.1	851.2	828.2
37.5°	1049.8	1032.9	1016.0	991.1	966.2	941.2	916.3	891.4	866.5	841.5	816.6
40°	1056.2	1037.6	1019.1	992.3	965.5	938.8	912.0	885.2	858.4	831.7	804.9
42.5°	1063.0	1042.6	1022.2	993.3	964.5	935.6	906.8	877.9	849.1	820.2	791.4
45°	1067.2	1044.7	1022.2	991.4	960.6	929.7	898.9	868.1	837.3	806.4	775.6
47.5°	1071.6	1046.9	1022.2	989.4	956.6	923.8	891.0	858.2	825.4	792.6	759.8
50°	1075.2	1048.2	1021.2	986.4	951.6	916.9	882.1	847.3	812.5	777.8	743.0
52.5°	1078.2	1048.7	1019.1	982.4	945.6	908.9	872.1	835.4	798.6	761.9	725.1
55°	1080.7	1048.9	1017.0	978.3	939.6	900.9	862.2	823.4	784.7	746.0	707.3
57.5°	1083.3	1049.1	1014.9	974.1	933.3	892.5	851.7	811.0	770.2	729.4	688.6
60°	1084.1	1048.0	1011.8	968.9	926.0	883.1	840.2	797.4	754.5	711.6	668.7
62.5°	1083.4	1045.5	1007.6	962.7	917.9	873.0	828.2	783.3	738.5	693.6	648.8
65°	1078.7	1039.5	1000.3	953.6	906.9	860.2	813.5	766.8	720.1	673.4	626.7
67.5°	1070.9	1030.9	990.9	942.3	893.8	845.2	796.7	748.1	699.6	651.0	602.5
70°	1055.7	1015.5	975.3	925.6	875.9	826.1	776.4	726.7	677.0	627.2	577.5
72.5°	1032.3	992.3	952.3	902.0	851.7	801.4	751.1	700.8	650.5	600.2	549.9
75°	1001.7	962.4	923.1	872.8	822.5	772.2	721.9	671.6	621.3	571.0	520.7
77.5°	962.3	924.0	885.6	836.3	787.1	737.8	688.6	639.3	590.1	540.8	491.6
80°	919.1	882.0	844.9	796.9	748.9	701.0	653.0	605.0	557.0	509.1	461.1
82.5°	873.2	837.1	801.1	754.6	708.1	661.7	615.2	568.7	522.2	475.8	429.3
85°	828.7	794.0	759.4	714.5	669.7	624.8	580.0	535.1	490.3	445.4	400.6
87.5°	789.4	756.2	722.9	679.5	636.2	592.8	549.5	506.1	462.8	419.4	376.1
90°	757.4	725.5	693.6	651.5	609.5	567.4	525.3	483.3	441.2	399.1	357.1
92.5°	729.8	699.2	668.6	627.8	587.0	546.2	505.4	464.6	423.8	383.0	342.2
95°	704.6	675.1	645.7	605.8	565.9	526.1	486.2	446.3	406.4	366.6	326.7
97.5°	678.7	650.2	621.7	582.9	544.0	505.2	466.4	427.5	388.7	349.9	311.0
100°	651.7	623.6	595.6	557.9	520.3	482.6	444.9	407.3	369.6	331.9	294.3
102.5°	626.1	598.8	571.6	534.5	497.4	460.3	423.2	386.2	349.1	312.0	274.9
105°	600.9	574.3	547.6	511.4	475.3	439.1	403.0	366.8	330.7	294.5	258.4
107.5°	574.8	549.2	523.6	488.4	453.1	417.9	382.7	347.4	312.2	277.0	241.7
110°	548.0	523.3	498.6	464.4	430.2	396.0	361.8	327.7	293.5	259.3	225.1



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	520.9	497.2	473.6	440.4	407.3	374.1	341.0	307.8	274.7	241.5	208.4
115°	492.1	469.2	446.4	414.5	382.7	350.8	318.9	287.1	255.2	223.3	191.5
117.5°	464.4	442.4	420.4	389.7	359.0	328.2	297.5	266.8	236.1	205.3	174.6
120°	434.6	413.4	392.2	363.0	333.8	304.6	275.4	246.1	216.9	187.7	158.5
122.5°	404.8	384.4	364.0	336.1	308.2	280.2	252.3	224.4	196.5	168.5	140.6
125°	374.0	354.4	334.8	308.6	282.4	256.2	230.0	203.9	177.7	151.5	125.3
127.5°	343.2	324.4	305.6	281.0	256.5	231.9	207.3	182.8	158.2	133.6	109.1
130°	313.5	296.0	278.5	255.4	232.4	209.3	186.2	163.2	140.1	117.0	94.0
132.5°	283.0	266.6	250.3	229.0	207.7	186.3	165.0	143.7	122.4	101.0	79.7
135°	251.9	236.5	221.1	201.6	182.2	162.7	143.2	123.8	104.3	84.8	65.4
137.5°	223.6	209.4	195.1	177.4	159.6	141.9	124.2	106.4	88.7	71.0	53.2
140°	194.3	181.1	167.9	152.0	136.1	120.3	104.4	88.5	72.6	56.8	40.9
142.5°	167.0	155.0	142.9	129.0	115.1	101.2	87.3	73.3	59.4	45.5	31.6
145°	139.5	128.7	117.9	106.1	94.3	82.4	70.6	58.8	47.0	35.1	23.3
147.5°	114.1	104.5	94.9	85.3	75.7	66.0	56.4	46.8	37.2	27.5	17.9
150°	88.9	80.5	72.0	64.7	57.4	50.1	42.8	35.5	28.2	20.9	13.6
152.5°	65.5	58.3	51.1	45.9	40.7	35.5	30.3	25.0	19.8	14.6	9.4
155°	45.2	39.3	33.4	30.0	26.7	23.3	19.9	16.6	13.2	9.8	6.5
157.5°	26.7	22.2	17.7	16.0	14.2	12.5	10.8	9.0	7.3	5.6	3.8
160°	15.0	12.2	9.4	8.5	7.5	6.6	5.7	4.7	3.8	2.9	1.9
162.5°	6.7	5.5	4.2	3.8	3.5	3.1	2.8	2.4	2.1	1.7	1.4
165°	1.9	1.5	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	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
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	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
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: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1032.6	1035.4	1038.2	1041.0	1043.8	1046.5	1049.3	1052.1	1054.9	1057.7	1057.8
5°	1019.1	1022.9	1026.7	1030.6	1034.4	1038.2	1042.0	1045.9	1049.7	1053.5	1054.8
7.5°	1003.4	1007.9	1012.4	1017.0	1021.5	1026.0	1030.5	1035.1	1039.6	1044.1	1046.9
10°	986.7	991.9	997.1	1002.4	1007.6	1012.8	1018.0	1023.3	1028.5	1033.7	1037.8
12.5°	968.0	973.8	979.6	985.4	991.2	996.9	1002.7	1008.5	1014.3	1020.1	1025.4
15°	948.2	954.1	960.0	965.9	971.8	977.8	983.7	989.6	995.5	1001.4	1008.2
17.5°	930.4	936.1	941.8	947.4	953.1	958.8	964.5	970.1	975.8	981.5	990.0
20°	909.6	915.0	920.5	925.9	931.4	936.8	942.3	947.7	953.2	958.6	968.7
22.5°	889.7	894.5	899.2	904.0	908.7	913.5	918.2	923.0	927.7	932.5	944.3
25°	868.9	872.7	876.5	880.4	884.2	888.0	891.8	895.7	899.5	903.3	917.1
27.5°	850.1	852.9	855.7	858.4	861.2	864.0	866.8	869.5	872.3	875.1	890.6
30°	833.4	834.3	835.3	836.2	837.1	838.1	839.0	839.9	840.9	841.8	859.5
32.5°	818.8	817.5	816.2	815.0	813.7	812.4	811.1	809.9	808.6	807.3	827.5
35°	805.3	801.5	797.6	793.8	790.0	786.1	782.3	778.5	774.6	770.8	793.5
37.5°	791.7	785.2	778.7	772.2	765.7	759.3	752.8	746.3	739.8	733.3	758.9
40°	778.1	768.8	759.6	750.3	741.0	731.8	722.5	713.2	704.0	694.7	723.3
42.5°	762.5	750.4	738.4	726.3	714.3	702.2	690.2	678.1	666.1	654.0	685.6
45°	744.8	730.3	715.8	701.3	686.8	672.4	657.9	643.4	628.9	614.4	648.8
47.5°	727.0	709.8	692.7	675.5	658.4	641.2	624.1	606.9	589.8	572.6	610.0
50°	708.2	688.5	668.8	649.1	629.4	609.7	590.0	570.3	550.6	530.9	571.2
52.5°	688.4	666.3	644.1	622.0	599.9	577.7	555.6	533.5	511.3	489.2	532.2
55°	668.6	644.0	619.5	594.9	570.3	545.8	521.2	496.6	472.1	447.5	493.2
57.5°	647.8	621.0	594.2	567.5	540.7	513.9	487.1	460.4	433.6	406.8	454.8
60°	625.8	596.7	567.6	538.5	509.4	480.4	451.3	422.2	393.1	364.0	414.4
62.5°	603.9	572.8	541.8	510.7	479.7	448.6	417.6	386.5	355.5	324.4	376.7
65°	580.0	547.0	513.9	480.9	447.9	414.8	381.8	348.8	315.7	282.7	336.9
67.5°	553.9	519.1	484.4	449.6	414.8	380.1	345.3	310.5	275.8	241.0	297.0
70°	527.8	491.6	455.5	419.3	383.2	347.0	310.9	274.7	238.6	202.4	259.8
72.5°	499.6	462.4	425.2	388.0	350.8	313.6	276.4	239.2	202.0	164.8	223.2
75°	470.4	432.5	394.6	356.7	318.8	280.9	243.0	205.1	167.2	129.3	188.4
77.5°	442.3	403.9	365.6	327.2	288.8	250.5	212.1	173.7	135.4	97.0	156.5
80°	413.1	374.7	336.4	298.0	259.6	221.3	182.9	144.5	106.2	67.8	127.0
82.5°	382.8	344.9	307.0	269.1	231.2	193.3	155.4	117.5	79.6	41.7	100.7
85°	355.7	318.5	281.3	244.1	206.9	169.7	132.5	95.3	58.1	20.9	78.8
87.5°	332.7	296.4	260.2	223.9	187.6	151.4	115.1	78.8	42.6	6.3	62.7
90°	315.0	280.1	245.2	210.3	175.4	140.6	105.7	70.8	35.9	1.0	55.1
92.5°	301.4	267.9	234.4	200.9	167.4	134.0	100.5	67.0	33.5	0.0	52.2
95°	286.8	254.9	223.1	191.2	159.3	127.5	95.6	63.7	31.9	0.0	50.2
97.5°	272.2	242.0	211.7	181.5	151.2	121.0	90.7	60.5	30.2	0.0	47.9
100°	256.6	228.2	199.8	171.4	143.0	114.6	86.2	57.8	29.4	1.0	46.4
102.5°	237.8	211.4	185.0	158.5	132.1	105.7	79.3	52.8	26.4	0.0	43.2
105°	222.2	197.6	173.0	148.5	123.9	99.3	74.7	50.2	25.6	1.0	41.9
107.5°	206.5	183.7	160.8	138.0	115.2	92.3	69.5	46.7	23.8	1.0	39.5
110°	190.9	169.8	148.7	127.6	106.5	85.4	64.3	43.2	22.1	1.0	37.0



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	175.2	155.8	136.5	117.1	97.8	78.4	59.1	39.7	20.4	1.0	34.5
115°	159.6	142.0	124.4	106.7	89.1	71.5	53.9	36.2	18.6	1.0	31.7
117.5°	143.9	128.0	112.1	96.3	80.4	64.5	48.6	32.8	16.9	1.0	29.1
120°	129.3	115.0	100.8	86.5	72.3	58.0	43.8	29.5	15.3	1.0	26.3
122.5°	112.7	100.3	87.9	75.5	63.1	50.6	38.2	25.8	13.4	1.0	23.6
125°	99.1	88.2	77.3	66.4	55.5	44.6	33.7	22.8	11.9	1.0	20.8
127.5°	84.5	75.2	65.9	56.7	47.4	38.1	28.8	19.6	10.3	1.0	17.7
130°	70.9	63.1	55.4	47.6	39.8	32.1	24.3	16.5	8.8	1.0	14.7
132.5°	58.4	52.0	45.6	39.3	32.9	26.5	20.1	13.8	7.4	1.0	12.1
135°	45.9	40.9	35.9	30.9	25.9	21.0	16.0	11.0	6.0	1.0	9.7
137.5°	35.5	31.7	27.8	24.0	20.2	16.3	12.5	8.7	4.8	1.0	7.4
140°	25.0	22.3	19.7	17.0	14.3	11.7	9.0	6.3	3.7	1.0	5.5
142.5°	17.7	15.8	14.0	12.1	10.3	8.4	6.6	4.7	2.9	1.0	4.2
145°	11.5	10.3	9.2	8.0	6.8	5.7	4.5	3.3	2.2	1.0	3.2
147.5°	8.3	7.6	6.9	6.2	5.5	4.9	4.2	3.5	2.8	2.1	3.5
150°	6.3	5.8	5.4	4.9	4.4	4.0	3.5	3.0	2.6	2.1	3.0
152.5°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	2.7
155°	3.1	3.0	2.9	2.8	2.7	2.5	2.4	2.3	2.2	2.1	2.4
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
160°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.2
162.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.0
165°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.0
167.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	1.9
170°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
172.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
175°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
177.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
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: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1057.9	1058.0	1058.1	1058.3	1058.4	1058.5	1058.6	1058.7	1059.6	1060.6	1061.5
5°	1056.1	1057.3	1058.6	1059.9	1061.2	1062.4	1063.7	1065.0	1067.2	1069.4	1071.6
7.5°	1049.7	1052.5	1055.3	1058.0	1060.8	1063.6	1066.4	1069.2	1072.7	1076.1	1079.6
10°	1041.8	1045.9	1049.9	1054.0	1058.0	1062.1	1066.1	1070.2	1075.1	1079.9	1084.8
12.5°	1030.8	1036.1	1041.4	1046.8	1052.1	1057.4	1062.8	1068.1	1074.8	1081.5	1088.3
15°	1015.1	1021.9	1028.7	1035.6	1042.4	1049.2	1056.1	1062.9	1071.8	1080.7	1089.7
17.5°	998.4	1006.9	1015.4	1023.8	1032.3	1040.8	1049.2	1057.7	1068.9	1080.2	1091.4
20°	978.8	988.8	998.9	1009.0	1019.1	1029.1	1039.2	1049.3	1063.6	1077.8	1092.1
22.5°	956.1	968.0	979.8	991.6	1003.4	1015.3	1027.1	1038.9	1057.1	1075.3	1093.5
25°	930.9	944.7	958.5	972.2	986.0	999.8	1013.6	1027.4	1049.2	1071.0	1092.8
27.5°	906.2	921.7	937.2	952.8	968.3	983.8	999.4	1014.9	1040.5	1066.1	1091.7
30°	877.3	895.0	912.7	930.5	948.2	965.9	983.7	1001.4	1030.6	1059.8	1089.0
32.5°	847.6	867.8	888.0	908.1	928.3	948.5	968.6	988.8	1021.5	1054.2	1086.9
35°	816.2	839.0	861.7	884.4	907.1	929.9	952.6	975.3	1011.2	1047.1	1083.1
37.5°	784.5	810.1	835.7	861.4	887.0	912.6	938.2	963.8	1002.7	1041.7	1080.6
40°	751.9	780.6	809.2	837.8	866.4	895.1	923.7	952.3	993.9	1035.5	1077.1
42.5°	717.3	748.9	780.6	812.2	843.9	875.5	907.2	938.8	983.3	1027.8	1072.3
45°	683.2	717.7	752.1	786.5	820.9	855.4	889.8	924.2	971.4	1018.5	1065.7
47.5°	647.5	684.9	722.4	759.8	797.3	834.7	872.2	909.6	959.4	1009.3	1059.1
50°	611.6	651.9	692.2	732.6	772.9	813.2	853.6	893.9	946.2	998.4	1050.7
52.5°	575.2	618.2	661.2	704.2	747.2	790.2	833.2	876.2	930.7	985.1	1039.6
55°	538.8	584.5	630.2	675.8	721.5	767.2	812.8	858.5	915.2	971.8	1028.5
57.5°	502.8	550.7	598.7	646.7	694.7	742.6	790.6	838.6	897.6	956.6	1015.6
60°	464.8	515.3	565.7	616.1	666.5	717.0	767.4	817.8	879.0	940.2	1001.4
62.5°	428.9	481.2	533.5	585.7	638.0	690.3	742.5	794.8	858.3	921.8	985.3
65°	391.2	445.4	499.6	553.9	608.1	662.3	716.6	770.8	836.3	901.8	967.3
67.5°	353.0	408.9	464.9	520.9	576.9	632.8	688.8	744.8	812.4	879.9	947.5
70°	317.1	374.5	431.9	489.2	546.6	604.0	661.3	718.7	787.8	856.9	925.9
72.5°	281.6	340.0	398.4	456.9	515.3	573.7	632.1	690.5	760.6	830.7	900.9
75°	247.5	306.6	365.7	424.9	484.0	543.1	602.2	661.3	732.1	802.9	873.7
77.5°	215.9	275.4	334.8	394.3	453.7	513.2	572.6	632.1	702.9	773.7	844.5
80°	186.2	245.5	304.7	363.9	423.1	482.4	541.6	600.8	671.4	742.0	812.5
82.5°	159.7	218.7	277.7	336.6	395.6	454.6	513.6	572.6	641.9	711.2	780.5
85°	136.8	194.7	252.7	310.6	368.6	426.5	484.5	542.4	611.2	680.1	748.9
87.5°	119.2	175.6	232.0	288.5	344.9	401.3	457.8	514.2	581.8	649.3	716.9
90°	109.3	163.4	217.5	271.7	325.8	379.9	434.1	488.2	554.4	620.6	686.7
92.5°	104.3	156.5	208.6	260.8	312.9	365.1	417.2	469.4	534.3	599.2	664.1
95°	100.4	150.6	200.8	250.9	301.1	351.3	401.5	451.7	515.3	578.9	642.6
97.5°	95.7	143.6	191.5	239.3	287.2	335.1	382.9	430.8	493.5	556.2	618.9
100°	91.9	137.3	182.7	228.2	273.6	319.0	364.5	409.9	471.7	533.5	595.2
102.5°	86.5	129.7	172.9	216.2	259.4	302.6	345.9	389.1	449.7	510.3	570.9
105°	82.8	123.7	164.6	205.6	246.5	287.4	328.3	369.2	428.5	487.9	547.2
107.5°	78.0	116.4	154.9	193.4	231.9	270.3	308.8	347.3	405.3	463.2	521.2
110°	73.1	109.1	145.2	181.2	217.3	253.3	289.4	325.4	382.0	438.5	495.1



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	68.0	101.5	135.0	168.5	202.0	235.5	269.0	302.5	357.8	413.1	468.3
115°	62.4	93.2	123.9	154.6	185.3	216.1	246.8	277.5	330.9	384.3	437.8
117.5°	57.1	85.2	113.2	141.3	169.3	197.4	225.4	253.5	305.8	358.0	410.3
120°	51.5	76.8	102.1	127.3	152.6	177.9	203.1	228.4	278.9	329.5	380.0
122.5°	46.2	68.8	91.4	114.0	136.6	159.2	181.8	204.4	253.1	301.8	350.4
125°	40.6	60.5	80.3	100.1	119.9	139.8	159.6	179.4	225.9	272.4	318.8
127.5°	34.4	51.1	67.8	84.4	101.1	117.8	134.5	151.2	195.0	238.8	282.6
130°	28.4	42.0	55.7	69.4	83.1	96.7	110.4	124.1	164.0	203.8	243.7
132.5°	23.3	34.4	45.5	56.7	67.8	78.9	90.1	101.2	136.9	172.6	208.3
135°	18.4	27.1	35.8	44.5	53.2	61.9	70.6	79.3	111.3	143.3	175.3
137.5°	13.8	20.1	26.5	32.9	39.3	45.6	52.0	58.4	86.9	115.4	143.9
140°	10.0	14.6	19.1	23.6	28.1	32.7	37.2	41.7	66.9	92.0	117.2
142.5°	7.5	10.7	14.0	17.2	20.5	23.7	27.0	30.2	51.5	72.9	94.2
145°	5.4	7.6	9.8	12.1	14.3	16.5	18.7	20.9	38.6	56.4	74.1
147.5°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	28.9	43.1	57.4
150°	3.9	4.9	5.8	6.7	7.6	8.6	9.5	10.4	21.3	32.2	43.1
152.5°	3.3	3.8	4.4	5.0	5.6	6.1	6.7	7.3	15.2	23.1	30.9
155°	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	10.1	14.9	19.8
157.5°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	7.1	10.0	12.9
160°	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	4.6	6.1	7.6
162.5°	1.9	1.7	1.6	1.5	1.4	1.2	1.1	1.0	1.7	2.4	3.1
165°	1.9	1.7	1.6	1.5	1.4	1.2	1.1	1.0	1.1	1.2	1.4
167.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
170°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
172.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
175°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
177.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	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: P201365

CATALOG NUMBER: 4LBLEDD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1062.4	1063.4	1064.3	1065.2	1066.2	1067.1	1067.3	1067.6	1067.8	1068.0	1068.3
5°	1073.8	1076.0	1078.2	1080.4	1082.6	1084.8	1085.8	1086.9	1087.9	1089.0	1090.0
7.5°	1083.1	1086.5	1090.0	1093.5	1096.9	1100.4	1102.6	1104.8	1107.0	1109.2	1111.5
10°	1089.7	1094.5	1099.4	1104.3	1109.1	1114.0	1117.8	1121.6	1125.5	1129.3	1133.1
12.5°	1095.0	1101.7	1108.4	1115.2	1121.9	1128.6	1134.2	1139.7	1145.3	1150.9	1156.4
15°	1098.6	1107.5	1116.4	1125.4	1134.3	1143.2	1150.9	1158.5	1166.2	1173.8	1181.5
17.5°	1102.7	1113.9	1125.2	1136.4	1147.7	1158.9	1169.4	1180.0	1190.5	1201.1	1211.6
20°	1106.3	1120.6	1134.8	1149.1	1163.3	1177.6	1190.7	1203.8	1216.9	1230.0	1243.1
22.5°	1111.7	1129.9	1148.1	1166.3	1184.5	1202.7	1217.4	1232.1	1246.8	1261.5	1276.3
25°	1114.6	1136.3	1158.1	1179.9	1201.7	1223.5	1240.3	1257.1	1273.9	1290.7	1307.6
27.5°	1117.3	1143.0	1168.6	1194.2	1219.8	1245.4	1264.1	1282.7	1301.4	1320.1	1338.7
30°	1118.2	1147.4	1176.6	1205.8	1235.0	1264.2	1284.7	1305.2	1325.7	1346.2	1366.8
32.5°	1119.6	1152.2	1184.9	1217.6	1250.3	1283.0	1305.5	1328.0	1350.4	1372.9	1395.4
35°	1119.0	1154.9	1190.8	1226.8	1262.7	1298.6	1323.1	1347.5	1372.0	1396.4	1420.9
37.5°	1119.6	1158.5	1197.5	1236.4	1275.4	1314.3	1340.7	1367.1	1393.6	1420.0	1446.4
40°	1118.7	1160.4	1202.0	1243.6	1285.2	1326.8	1355.5	1384.3	1413.0	1441.8	1470.5
42.5°	1116.8	1161.3	1205.8	1250.3	1294.8	1339.3	1370.2	1401.2	1432.1	1463.1	1494.0
45°	1112.9	1160.0	1207.2	1254.4	1301.5	1348.7	1382.1	1415.5	1448.8	1482.2	1515.6
47.5°	1108.9	1158.8	1208.6	1258.4	1308.3	1358.1	1394.0	1429.9	1465.9	1501.8	1537.7
50°	1103.0	1155.2	1207.5	1259.8	1312.0	1364.3	1402.8	1441.3	1479.7	1518.2	1556.7
52.5°	1094.1	1148.5	1203.0	1257.5	1311.9	1366.4	1407.9	1449.4	1490.9	1532.4	1573.9
55°	1085.2	1141.8	1198.5	1255.2	1311.8	1368.5	1412.7	1456.8	1501.0	1545.1	1589.3
57.5°	1074.6	1133.6	1192.6	1251.6	1310.6	1369.6	1416.2	1462.8	1509.4	1556.0	1602.5
60°	1062.6	1123.7	1184.9	1246.1	1307.3	1368.5	1417.2	1465.9	1514.5	1563.2	1611.9
62.5°	1048.8	1112.4	1175.9	1239.4	1302.9	1366.4	1416.9	1467.5	1518.0	1568.5	1619.1
65°	1032.8	1098.2	1163.7	1229.2	1294.7	1360.2	1412.2	1464.3	1516.3	1568.3	1620.4
67.5°	1015.1	1082.6	1150.2	1217.8	1285.3	1352.9	1406.2	1459.5	1512.8	1566.1	1619.5
70°	995.0	1064.1	1133.2	1202.2	1271.3	1340.4	1394.6	1448.9	1503.1	1557.3	1611.6
72.5°	971.0	1041.1	1111.2	1181.4	1251.5	1321.6	1376.6	1431.7	1486.7	1541.8	1596.8
75°	944.5	1015.4	1086.2	1157.0	1227.8	1298.6	1354.0	1409.4	1464.8	1520.2	1575.6
77.5°	915.3	986.2	1057.0	1127.8	1198.6	1269.4	1324.7	1380.0	1435.3	1490.6	1545.8
80°	883.1	953.7	1024.3	1094.8	1165.4	1236.0	1290.8	1345.6	1400.5	1455.3	1510.1
82.5°	849.8	919.2	988.5	1057.8	1127.1	1196.4	1250.6	1304.9	1359.1	1413.4	1467.6
85°	817.8	886.6	955.5	1024.3	1093.2	1162.0	1214.8	1267.7	1320.5	1373.4	1426.2
87.5°	784.5	852.0	919.6	987.2	1054.7	1122.3	1174.0	1225.7	1277.4	1329.1	1380.8
90°	752.9	819.1	885.3	951.4	1017.6	1083.8	1134.3	1184.8	1235.4	1285.9	1336.4
92.5°	729.0	793.9	858.8	923.7	988.6	1053.5	1102.5	1151.5	1200.6	1249.6	1298.6
95°	706.2	769.8	833.4	897.1	960.7	1024.3	1072.9	1121.4	1170.0	1218.5	1267.1
97.5°	681.6	744.3	807.0	869.7	932.4	995.1	1042.0	1089.0	1135.9	1182.8	1229.8
100°	657.0	718.8	780.6	842.3	904.1	965.9	1011.7	1057.5	1103.2	1149.0	1194.8
102.5°	631.5	692.2	752.8	813.4	874.0	934.6	979.7	1024.8	1069.9	1115.0	1160.0
105°	606.6	665.9	725.3	784.6	844.0	903.3	947.6	991.9	1036.1	1080.4	1124.7
107.5°	579.1	637.1	695.0	753.0	810.9	868.9	912.4	955.8	999.3	1042.7	1086.2
110°	551.7	608.2	664.8	721.4	777.9	834.5	876.8	919.1	961.4	1003.7	1046.0



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	523.6	578.9	634.2	689.4	744.7	800.0	841.0	882.1	923.1	964.1	1005.2
115°	491.2	544.6	598.0	651.5	704.9	758.3	798.5	838.7	879.0	919.2	959.4
117.5°	462.6	514.8	567.1	619.4	671.6	723.9	762.3	800.6	839.0	877.4	915.7
120°	430.5	481.1	531.6	582.1	632.7	683.2	720.2	757.2	794.1	831.1	868.1
122.5°	399.1	447.8	496.5	545.1	593.8	642.5	677.9	713.2	748.6	783.9	819.3
125°	365.3	411.8	458.3	504.7	551.2	597.7	631.7	665.6	699.6	733.5	767.5
127.5°	326.4	370.3	414.1	457.9	501.7	545.5	578.6	611.8	644.9	678.1	711.2
130°	283.6	323.4	363.3	403.2	443.0	482.9	516.4	549.9	583.4	616.9	650.4
132.5°	244.0	279.6	315.3	351.0	386.7	422.4	455.7	488.9	522.2	555.5	588.7
135°	207.3	239.2	271.2	303.2	335.2	367.2	399.3	431.4	463.5	495.6	527.7
137.5°	172.4	201.0	229.5	258.0	286.5	315.0	344.9	374.8	404.7	434.6	464.5
140°	142.3	167.5	192.6	217.8	242.9	268.1	294.8	321.4	348.1	374.7	401.4
142.5°	115.5	136.9	158.2	179.5	200.9	222.2	245.8	269.5	293.1	316.8	340.4
145°	91.8	109.6	127.3	145.0	162.8	180.5	201.2	222.0	242.7	263.5	284.2
147.5°	71.6	85.9	100.1	114.4	128.6	142.9	160.6	178.4	196.1	213.8	231.6
150°	54.0	64.9	75.8	86.7	97.6	108.5	123.2	137.9	152.7	167.4	182.1
152.5°	38.8	46.7	54.6	62.4	70.3	78.2	90.4	102.6	114.7	126.9	139.1
155°	24.7	29.5	34.4	39.3	44.1	49.0	59.0	68.9	78.9	88.9	98.8
157.5°	15.8	18.6	21.5	24.4	27.3	30.2	37.5	44.8	52.1	59.4	66.8
160°	9.1	10.7	12.2	13.7	15.2	16.7	21.1	25.5	29.9	34.3	38.7
162.5°	3.8	4.5	5.2	5.9	6.6	7.3	9.7	12.2	14.6	17.0	19.5
165°	1.5	1.6	1.7	1.9	2.0	2.1	3.1	4.2	5.2	6.3	7.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2
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: P201365

CATALOG NUMBER: 4LBLEDD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1068.5	1068.7	1069.0	1069.2	1068.4	1067.6	1066.8	1066.0	1065.1	1064.3	1063.5
5°	1091.1	1092.1	1093.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
7.5°	1113.7	1115.9	1118.1	1120.3	1120.8	1121.2	1121.7	1122.1	1122.6	1123.0	1123.5
10°	1136.9	1140.8	1144.6	1148.4	1149.2	1150.0	1150.8	1151.6	1152.5	1153.3	1154.1
12.5°	1162.0	1167.6	1173.1	1178.7	1179.9	1181.0	1182.2	1183.3	1184.5	1185.6	1186.8
15°	1189.1	1196.8	1204.4	1212.1	1214.5	1217.0	1219.4	1221.8	1224.3	1226.7	1229.1
17.5°	1222.2	1232.7	1243.3	1253.8	1257.0	1260.3	1263.5	1266.8	1270.0	1273.3	1276.5
20°	1256.2	1269.3	1282.4	1295.5	1299.7	1303.9	1308.0	1312.2	1316.4	1320.6	1324.7
22.5°	1291.0	1305.7	1320.4	1335.1	1340.1	1345.1	1350.1	1355.1	1360.0	1365.0	1370.0
25°	1324.4	1341.2	1358.0	1374.8	1380.2	1385.7	1391.1	1396.6	1402.0	1407.5	1412.9
27.5°	1357.4	1376.1	1394.7	1413.4	1419.5	1425.7	1431.8	1438.0	1444.1	1450.3	1456.4
30°	1387.3	1407.8	1428.3	1448.8	1456.0	1463.2	1470.4	1477.6	1484.7	1491.9	1499.1
32.5°	1417.9	1440.3	1462.8	1485.3	1493.4	1501.5	1509.7	1517.8	1525.9	1534.0	1542.2
35°	1445.3	1469.8	1494.2	1518.7	1527.9	1537.0	1546.2	1555.3	1564.5	1573.6	1582.8
37.5°	1472.8	1499.3	1525.7	1552.1	1562.4	1572.7	1583.0	1593.3	1603.7	1614.0	1624.3
40°	1499.3	1528.0	1556.8	1585.5	1596.9	1608.2	1619.6	1630.9	1642.3	1653.6	1665.0
42.5°	1525.0	1555.9	1586.9	1617.8	1630.3	1642.8	1655.4	1667.9	1680.4	1692.9	1705.5
45°	1549.0	1582.3	1615.7	1649.1	1663.2	1677.4	1691.5	1705.7	1719.8	1734.0	1748.1
47.5°	1573.6	1609.6	1645.5	1681.4	1696.6	1711.8	1727.0	1742.2	1757.3	1772.5	1787.7
50°	1595.2	1633.6	1672.1	1710.6	1726.9	1743.3	1759.6	1776.0	1792.3	1808.7	1825.0
52.5°	1615.4	1656.9	1698.4	1739.9	1757.3	1774.7	1792.0	1809.4	1826.8	1844.2	1861.5
55°	1633.4	1677.6	1721.7	1765.9	1784.1	1802.3	1820.5	1838.7	1856.9	1875.1	1893.3
57.5°	1649.1	1695.7	1742.3	1788.9	1808.0	1827.1	1846.3	1865.4	1884.5	1903.6	1922.8
60°	1660.6	1709.2	1757.9	1806.6	1826.7	1846.7	1866.8	1886.8	1906.9	1926.9	1947.0
62.5°	1669.6	1720.1	1770.7	1821.2	1841.7	1862.2	1882.7	1903.2	1923.8	1944.3	1964.8
65°	1672.4	1724.4	1776.5	1828.5	1849.5	1870.5	1891.4	1912.4	1933.4	1954.4	1975.3
67.5°	1672.8	1726.1	1779.4	1832.7	1853.8	1874.9	1896.0	1917.1	1938.1	1959.2	1980.3
70°	1665.8	1720.0	1774.3	1828.5	1849.7	1870.9	1892.1	1913.3	1934.6	1955.8	1977.0
72.5°	1651.9	1706.9	1762.0	1817.0	1838.2	1859.4	1880.6	1901.8	1923.1	1944.3	1965.5
75°	1631.0	1686.4	1741.8	1797.2	1818.2	1839.2	1860.1	1881.1	1902.1	1923.1	1944.0
77.5°	1601.1	1656.4	1711.7	1767.0	1787.9	1808.7	1829.6	1850.4	1871.3	1892.1	1913.0
80°	1564.9	1619.8	1674.6	1729.4	1749.9	1770.4	1790.9	1811.4	1832.0	1852.5	1873.0
82.5°	1521.9	1576.1	1630.4	1684.6	1704.9	1725.2	1745.4	1765.7	1786.0	1806.3	1826.5
85°	1479.1	1531.9	1584.8	1637.6	1657.4	1677.2	1697.1	1716.9	1736.7	1756.5	1776.4
87.5°	1432.5	1484.2	1535.9	1587.6	1607.2	1626.8	1646.3	1665.9	1685.5	1705.1	1724.6
90°	1386.9	1437.5	1488.0	1538.5	1557.6	1576.7	1595.9	1615.0	1634.1	1653.2	1672.4
92.5°	1347.6	1396.7	1445.7	1494.7	1513.6	1532.5	1551.4	1570.3	1589.1	1608.0	1626.9
95°	1315.6	1364.2	1412.7	1461.3	1479.0	1496.8	1514.5	1532.2	1550.0	1567.7	1585.4
97.5°	1276.7	1323.6	1370.6	1417.5	1435.1	1452.7	1470.4	1488.0	1505.6	1523.2	1540.9
100°	1240.6	1286.3	1332.1	1377.9	1395.1	1412.2	1429.4	1446.5	1463.7	1480.8	1498.0
102.5°	1205.1	1250.2	1295.3	1340.4	1357.4	1374.5	1391.5	1408.5	1425.6	1442.6	1459.6
105°	1169.0	1213.2	1257.5	1301.8	1318.1	1334.5	1350.8	1367.1	1383.5	1399.8	1416.1
107.5°	1129.6	1173.1	1216.5	1260.0	1276.0	1292.0	1308.0	1324.0	1340.0	1356.0	1372.0
110°	1088.3	1130.6	1172.9	1215.2	1231.0	1246.7	1262.5	1278.2	1294.0	1309.7	1325.5



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1046.2	1087.2	1128.3	1169.3	1184.6	1199.9	1215.2	1230.5	1245.8	1261.1	1276.4
115°	999.6	1039.9	1080.1	1120.3	1135.8	1151.3	1166.9	1182.4	1197.9	1213.4	1229.0
117.5°	954.1	992.5	1030.8	1069.2	1084.4	1099.6	1114.7	1129.9	1145.1	1160.3	1175.4
120°	905.1	942.0	979.0	1016.0	1030.8	1045.7	1060.5	1075.3	1090.2	1105.0	1119.8
122.5°	854.6	890.0	925.3	960.7	975.1	989.4	1003.8	1018.2	1032.5	1046.9	1061.3
125°	801.4	835.4	869.3	903.3	917.2	931.1	945.0	958.9	972.9	986.8	1000.7
127.5°	744.4	777.5	810.7	843.8	857.1	870.5	883.8	897.1	910.5	923.8	937.1
130°	683.9	717.4	750.9	784.4	797.0	809.7	822.3	834.9	847.6	860.2	872.8
132.5°	622.0	655.3	688.5	721.8	734.0	746.1	758.3	770.5	782.6	794.8	807.0
135°	559.8	591.9	624.0	656.1	667.9	679.7	691.6	703.4	715.2	727.0	738.9
137.5°	494.4	524.3	554.2	584.1	595.9	607.7	619.6	631.4	643.2	655.0	666.9
140°	428.0	454.7	481.3	508.0	520.3	532.6	544.8	557.1	569.4	581.7	593.9
142.5°	364.1	387.7	411.4	435.0	446.9	458.9	470.8	482.7	494.7	506.6	518.5
145°	305.0	325.7	346.5	367.2	379.5	391.8	404.0	416.3	428.6	440.9	453.1
147.5°	249.3	267.0	284.8	302.5	315.0	327.5	340.0	352.5	365.1	377.6	390.1
150°	196.8	211.6	226.3	241.0	253.4	265.8	278.2	290.6	303.0	315.4	327.8
152.5°	151.3	163.4	175.6	187.8	199.4	211.0	222.6	234.2	245.7	257.3	268.9
155°	108.8	118.8	128.7	138.7	148.9	159.1	169.3	179.5	189.7	199.9	210.1
157.5°	74.1	81.4	88.7	96.0	104.6	113.2	121.7	130.3	138.9	147.5	156.0
160°	43.1	47.5	51.9	56.3	63.5	70.7	77.9	85.1	92.2	99.4	106.6
162.5°	21.9	24.3	26.8	29.2	34.0	38.7	43.5	48.2	53.0	57.7	62.5
165°	8.4	9.4	10.5	11.5	14.2	16.8	19.5	22.2	24.8	27.5	30.2
167.5°	1.4	1.6	1.9	2.1	3.1	4.2	5.2	6.3	7.3	8.4	9.4
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: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1043.1	1043.1
2.5°	1062.7	1061.9
5°	1094.2	1094.2
7.5°	1123.9	1124.4
10°	1154.9	1155.7
12.5°	1187.9	1189.1
15°	1231.6	1234.0
17.5°	1279.8	1283.0
20°	1328.9	1333.1
22.5°	1375.0	1380.0
25°	1418.4	1423.8
27.5°	1462.6	1468.7
30°	1506.3	1513.5
32.5°	1550.3	1558.4
35°	1591.9	1601.1
37.5°	1634.6	1644.9
40°	1676.3	1687.7
42.5°	1718.0	1730.5
45°	1762.3	1776.4
47.5°	1802.9	1818.1
50°	1841.4	1857.7
52.5°	1878.9	1896.3
55°	1911.5	1929.7
57.5°	1941.9	1961.0
60°	1967.0	1987.1
62.5°	1985.3	2005.8
65°	1996.3	2017.3
67.5°	2001.4	2022.5
70°	1998.2	2019.4
72.5°	1986.7	2007.9
75°	1965.0	1986.0
77.5°	1933.8	1954.7
80°	1893.5	1914.0
82.5°	1846.8	1867.1
85°	1796.2	1816.0
87.5°	1744.2	1763.8
90°	1691.5	1710.6
92.5°	1645.8	1664.7
95°	1603.2	1620.9
97.5°	1558.5	1576.1
100°	1515.1	1532.3
102.5°	1476.7	1493.7
105°	1432.5	1448.8
107.5°	1388.0	1404.0
110°	1341.2	1357.0



TEST NUMBER: P201365

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1291.7	1307.0
115°	1244.5	1260.0
117.5°	1190.6	1205.8
120°	1134.7	1149.5
122.5°	1075.6	1090.0
125°	1014.6	1028.5
127.5°	950.5	963.8
130°	885.5	898.1
132.5°	819.1	831.3
135°	750.7	762.5
137.5°	678.7	690.5
140°	606.2	618.5
142.5°	530.5	542.4
145°	465.4	477.7
147.5°	402.6	415.1
150°	340.2	352.6
152.5°	280.5	292.1
155°	220.3	230.5
157.5°	164.6	173.2
160°	113.8	121.0
162.5°	67.2	72.0
165°	32.8	35.5
167.5°	10.5	11.5
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)