

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: P201404

Luminaire Tested: **8LBLED-LD4-9-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28232)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-9-ASYMW-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 6000 lm, Wht Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT50W0880CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9492.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 2.1 / 1.2 / 1.85
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

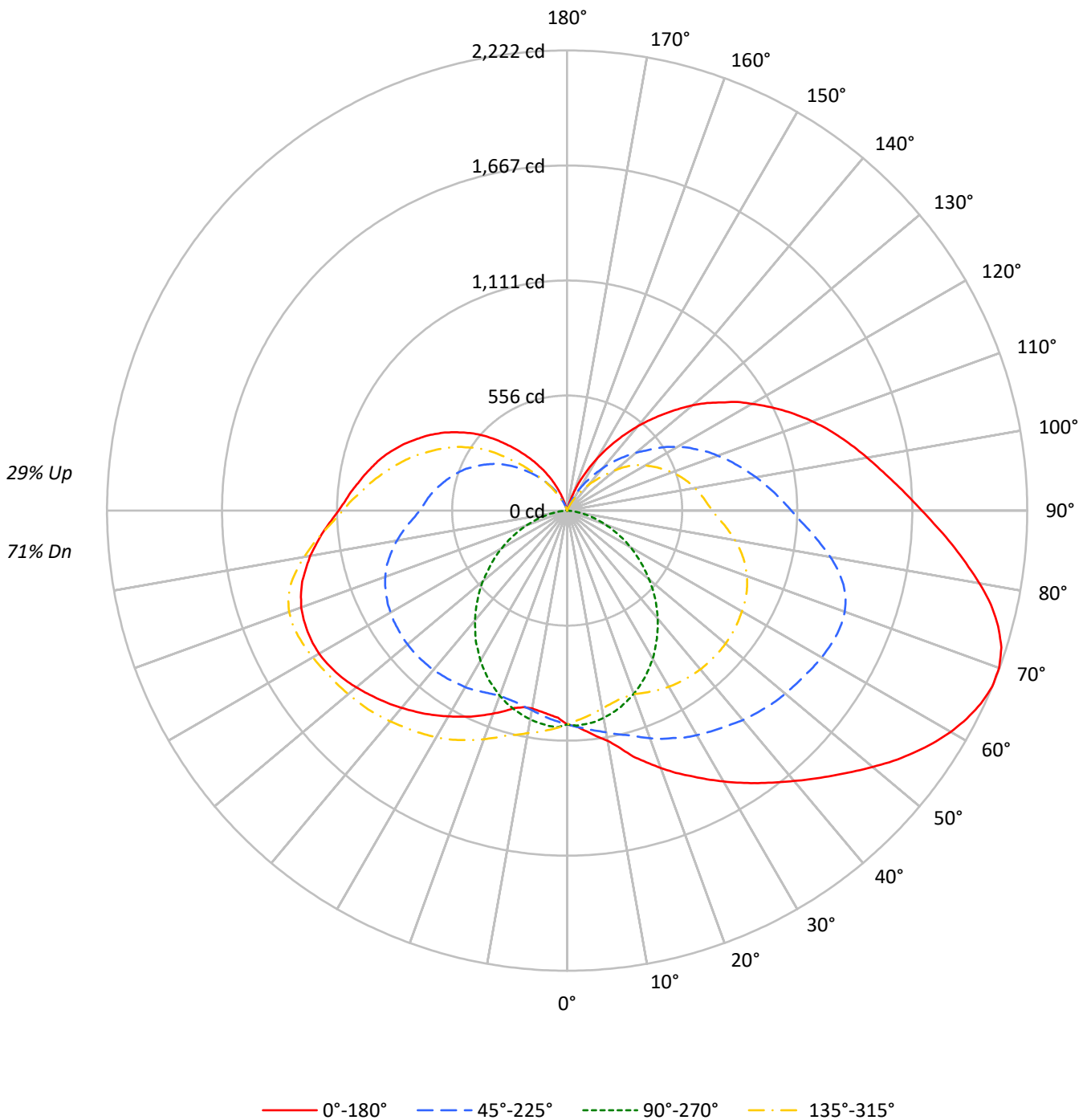
Input Watts (W): 65.59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	71
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	49
2	86	76	67	60	81	71	64	57	63	57	51	55	50	46	48	44	40	36
3	77	65	55	48	72	61	52	45	54	47	41	47	41	36	41	36	32	28
4	70	56	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	32	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	34	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	20	29	23	18	25	20	16	14
8	50	36	27	21	47	34	25	20	30	23	18	26	20	16	23	18	14	12
9	47	33	24	18	44	31	23	17	27	21	16	24	18	14	21	16	13	10
10	43	30	22	16	41	28	21	15	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8320	8320	8320	8320
5°	7805	8349	7211	8417
10°	7571	8274	6507	8342
15°	7685	8157	6171	8225
20°	7803	7992	6154	8080
25°	7954	7806	6171	7897
30°	8174	7572	6209	7668
35°	8440	7295	6291	7436
40°	8765	7000	6394	7129
45°	9188	6672	6531	6788
50°	9715	6265	6705	6468
55°	10314	5877	6886	6046
60°	10913	5437	7059	5630
65°	11451	4897	7183	5161
70°	11825	4265	7279	4586
75°	11877	3612	7301	3848
80°	11632	2616	7250	2867
85°	11315	1190	7177	1632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	1.0
10°-20°	295.9	3.1
20°-30°	499.0	5.3
30°-40°	695.4	7.3
40°-50°	875.0	9.2
50°-60°	1025.7	10.8
60°-70°	1122.4	11.8
70°-80°	1109.6	11.7
80°-90°	975.0	10.3
90°-100°	831.0	8.8
100°-110°	694.8	7.3
110°-120°	540.0	5.7
120°-130°	376.6	4.0
130°-140°	220.2	2.3
140°-150°	100.7	1.1
150°-160°	29.8	0.3
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	893.2	9.4
0°-40°	1588.6	16.7
0°-60°	3489.3	36.8
0°-90°	6696.3	70.5
90°-120°	2065.8	21.8
90°-150°	2763.3	29.1
90°-180°	2796.0	29.5
0°-180°	9492.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1033	1033	1033	1033	1033	
5°	1070	1035	989	1043	1070	104
15°	1229	985	987	993	1229	350
25°	1414	889	1097	899	1414	658
35°	1606	755	1198	770	1606	1012
45°	1811	601	1287	611	1811	1406
55°	2040	434	1362	446	2040	1830
65°	2205	271	1383	286	2205	2180
75°	2155	127	1325	136	2155	2266
85°	1865	17	1183	23	1865	1555
90°	1713	0	1104	0	1713	940
95°	1583	0	1047	0	1583	1271
105°	1366	0	941	0	1366	1446
115°	1147	0	809	0	1147	1139
125°	910	0	659	2	910	821
135°	657	0	482	2	657	513
145°	409	0	300	2	409	260
155°	184	0	140	2	184	89
165°	27	0	12	2	27	10
175°	0	0	0	0	0	0
180°	0	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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1043.1	1042.9	1042.6	1042.4	1042.2	1041.9	1041.7	1041.5	1041.2	1041.0	1041.5
5°	1070.2	1069.0	1067.9	1066.7	1065.6	1064.4	1063.3	1062.1	1061.0	1059.8	1059.6
7.5°	1099.4	1097.8	1096.2	1094.5	1092.9	1091.3	1089.7	1088.0	1086.4	1084.8	1083.4
10°	1128.6	1126.5	1124.4	1122.3	1120.2	1118.2	1116.1	1114.0	1111.9	1109.8	1107.3
12.5°	1172.4	1169.2	1165.9	1162.7	1159.4	1156.2	1152.9	1149.7	1146.4	1143.2	1139.0
15°	1228.8	1224.4	1220.0	1215.6	1211.2	1206.7	1202.3	1197.9	1193.5	1189.1	1181.7
17.5°	1274.7	1270.3	1265.9	1261.5	1257.1	1252.6	1248.2	1243.8	1239.4	1235.0	1225.0
20°	1322.6	1317.3	1312.0	1306.6	1301.3	1296.0	1290.7	1285.3	1280.0	1274.7	1263.1
22.5°	1370.6	1364.1	1357.6	1351.1	1344.6	1338.2	1331.7	1325.2	1318.7	1312.2	1299.0
25°	1414.4	1407.7	1401.0	1394.2	1387.5	1380.8	1374.1	1367.3	1360.6	1353.9	1338.1
27.5°	1462.4	1454.8	1447.1	1439.5	1431.8	1424.2	1416.5	1408.9	1401.2	1393.6	1376.0
30°	1510.4	1501.6	1492.8	1484.0	1475.2	1466.3	1457.5	1448.7	1439.9	1431.1	1411.2
32.5°	1558.4	1548.4	1538.5	1528.5	1518.5	1508.6	1498.6	1488.6	1478.7	1468.7	1446.4
35°	1606.4	1595.5	1584.6	1573.7	1562.8	1551.9	1541.0	1530.1	1519.2	1508.3	1483.5
37.5°	1654.3	1642.5	1630.7	1618.8	1607.0	1595.2	1583.4	1571.5	1559.7	1547.9	1520.6
40°	1704.4	1691.4	1678.4	1665.5	1652.5	1639.5	1626.5	1613.6	1600.6	1587.6	1557.9
42.5°	1756.6	1742.2	1727.8	1713.5	1699.1	1684.7	1670.3	1656.0	1641.6	1627.2	1594.8
45°	1810.8	1795.5	1780.2	1764.9	1749.6	1734.3	1719.0	1703.7	1688.4	1673.1	1637.2
47.5°	1867.1	1850.2	1833.3	1816.3	1799.4	1782.5	1765.6	1748.6	1731.7	1714.8	1675.9
50°	1925.5	1907.2	1888.9	1870.6	1852.3	1833.9	1815.6	1797.3	1779.0	1760.7	1717.8
52.5°	1986.0	1965.6	1945.2	1924.8	1904.4	1884.1	1863.7	1843.3	1822.9	1802.5	1756.1
55°	2040.3	2019.4	1998.6	1977.7	1956.8	1936.0	1915.1	1894.2	1873.4	1852.5	1801.7
57.5°	2092.4	2070.6	2048.8	2027.0	2005.2	1983.5	1961.7	1939.9	1918.1	1896.3	1842.1
60°	2138.3	2116.1	2093.8	2071.6	2049.3	2027.1	2004.8	1982.6	1960.3	1938.1	1880.4
62.5°	2175.9	2153.2	2130.5	2107.7	2085.0	2062.3	2039.6	2016.8	1994.1	1971.4	1910.9
65°	2205.1	2181.9	2158.7	2135.6	2112.4	2089.2	2066.0	2042.9	2019.7	1996.5	1933.9
67.5°	2221.8	2198.4	2175.0	2151.6	2128.2	2104.7	2081.3	2057.9	2034.5	2011.1	1946.9
70°	2219.7	2196.8	2173.8	2150.9	2127.9	2105.0	2082.0	2059.1	2036.1	2013.2	1948.1
72.5°	2198.8	2176.1	2153.4	2130.7	2108.0	2085.2	2062.5	2039.8	2017.1	1994.4	1929.5
75°	2155.0	2133.0	2111.0	2088.9	2066.9	2044.9	2022.9	2000.8	1978.8	1956.8	1892.8
77.5°	2096.6	2075.5	2054.4	2033.3	2012.2	1991.2	1970.1	1949.0	1927.9	1906.8	1844.0
80°	2021.5	2001.3	1981.2	1961.0	1940.8	1920.7	1900.5	1880.3	1860.2	1840.0	1779.0
82.5°	1942.2	1922.3	1902.3	1882.4	1862.5	1842.5	1822.6	1802.7	1782.7	1762.8	1704.2
85°	1865.0	1845.3	1825.6	1805.9	1786.2	1766.5	1746.8	1727.1	1707.4	1687.7	1631.4
87.5°	1785.8	1766.6	1747.3	1728.1	1708.8	1689.6	1670.3	1651.1	1631.8	1612.6	1558.6
90°	1712.8	1694.3	1675.7	1657.2	1638.6	1620.1	1601.5	1583.0	1564.4	1545.9	1494.4
92.5°	1646.0	1628.2	1610.3	1592.5	1574.6	1556.8	1538.9	1521.1	1503.2	1485.4	1436.0
95°	1583.4	1566.2	1549.1	1531.9	1514.8	1497.6	1480.5	1463.3	1446.2	1429.0	1381.7
97.5°	1525.0	1508.5	1492.1	1475.6	1459.2	1442.7	1426.3	1409.8	1393.4	1376.9	1331.0
100°	1470.8	1454.8	1438.8	1422.8	1406.8	1390.8	1374.8	1358.8	1342.8	1326.8	1282.3
102.5°	1418.6	1402.8	1387.1	1371.3	1355.5	1339.8	1324.0	1308.2	1292.5	1276.7	1233.4
105°	1366.4	1351.1	1335.8	1320.5	1305.2	1290.0	1274.7	1259.4	1244.1	1228.8	1186.6
107.5°	1314.3	1299.5	1284.6	1269.8	1255.0	1240.1	1225.3	1210.5	1195.6	1180.8	1140.0
110°	1260.1	1245.5	1230.9	1216.3	1201.7	1187.0	1172.4	1157.8	1143.2	1128.6	1089.2



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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°	1203.7	1189.6	1175.4	1161.3	1147.2	1133.0	1118.9	1104.8	1090.6	1076.5	1038.9
115°	1147.4	1133.7	1120.0	1106.4	1092.7	1079.0	1065.3	1051.7	1038.0	1024.3	987.7
117.5°	1089.0	1075.8	1062.6	1049.4	1036.2	1022.9	1009.7	996.5	983.3	970.1	935.6
120°	1030.6	1017.8	1005.1	992.3	979.6	966.8	954.1	941.3	928.6	915.8	882.2
122.5°	976.3	963.6	950.8	938.1	925.3	912.6	899.8	887.1	874.3	861.6	829.4
125°	909.6	898.2	886.9	875.5	864.2	852.8	841.5	830.1	818.8	807.4	775.9
127.5°	853.2	841.6	830.0	818.4	806.8	795.3	783.7	772.1	760.5	748.9	718.5
130°	790.7	779.6	768.4	757.3	746.2	735.0	723.9	712.8	701.6	690.5	662.0
132.5°	723.9	713.5	703.0	692.6	682.2	671.7	661.3	650.9	640.4	630.0	603.6
135°	657.1	647.6	638.1	628.6	619.1	609.6	600.1	590.6	581.1	571.6	547.0
137.5°	594.6	585.3	576.0	566.8	557.5	548.2	538.9	529.7	520.4	511.1	488.6
140°	532.0	523.4	514.8	506.3	497.7	489.1	480.5	472.0	463.4	454.8	433.9
142.5°	469.4	461.7	454.1	446.4	438.8	431.1	423.5	415.8	408.2	400.5	381.3
145°	408.9	401.9	395.0	388.0	381.1	374.1	367.2	360.2	353.3	346.3	328.9
147.5°	348.4	342.4	336.4	330.3	324.3	318.3	312.3	306.2	300.2	294.2	278.7
150°	292.1	286.5	281.0	275.4	269.8	264.3	258.7	253.1	247.6	242.0	228.6
152.5°	235.7	231.1	226.4	221.8	217.2	212.5	207.9	203.3	198.6	194.0	182.4
155°	183.6	179.7	175.7	171.8	167.8	163.9	159.9	156.0	152.0	148.1	138.6
157.5°	135.6	132.4	129.1	125.9	122.6	119.4	116.1	112.9	109.6	106.4	99.0
160°	89.7	87.6	85.5	83.4	81.3	79.3	77.2	75.1	73.0	70.9	65.8
162.5°	54.2	52.4	50.5	48.7	46.8	45.0	43.1	41.3	39.4	37.6	35.0
165°	27.1	26.4	25.7	25.0	24.3	23.7	23.0	22.3	21.6	20.9	19.5
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



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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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1041.9	1042.4	1042.9	1043.3	1043.8	1044.3	1044.7	1045.2	1043.6	1042.0	1040.3
5°	1059.3	1059.1	1058.9	1058.6	1058.4	1058.2	1057.9	1057.7	1054.9	1052.1	1049.4
7.5°	1082.0	1080.6	1079.2	1077.9	1076.5	1075.1	1073.7	1072.3	1068.4	1064.4	1060.5
10°	1104.7	1102.2	1099.6	1097.1	1094.5	1092.0	1089.4	1086.9	1081.1	1075.3	1069.5
12.5°	1134.9	1130.7	1126.5	1122.4	1118.2	1114.0	1109.9	1105.7	1097.6	1089.5	1081.4
15°	1174.3	1166.9	1159.5	1152.0	1144.6	1137.2	1129.8	1122.4	1112.0	1101.5	1091.1
17.5°	1215.1	1205.1	1195.1	1185.2	1175.2	1165.2	1155.3	1145.3	1131.9	1118.4	1105.0
20°	1251.5	1239.9	1228.3	1216.7	1205.1	1193.5	1181.9	1170.3	1153.2	1136.0	1118.9
22.5°	1285.8	1272.6	1259.4	1246.1	1232.9	1219.7	1206.5	1193.3	1172.7	1152.0	1131.4
25°	1322.4	1306.6	1290.9	1275.1	1259.4	1243.6	1227.9	1212.1	1188.2	1164.3	1140.5
27.5°	1358.4	1340.7	1323.1	1305.5	1287.9	1270.2	1252.6	1235.0	1207.6	1180.3	1152.9
30°	1391.2	1371.3	1351.4	1331.4	1311.5	1291.6	1271.6	1251.7	1221.3	1191.0	1160.6
32.5°	1424.2	1401.9	1379.7	1357.4	1335.2	1312.9	1290.7	1268.4	1235.5	1202.6	1169.7
35°	1458.7	1433.9	1409.1	1384.3	1359.5	1334.7	1309.9	1285.1	1249.4	1213.7	1178.0
37.5°	1493.2	1465.9	1438.5	1411.2	1383.8	1356.5	1329.1	1301.8	1263.1	1224.4	1185.7
40°	1528.2	1498.6	1468.9	1439.2	1409.5	1379.9	1350.2	1320.5	1278.6	1236.6	1194.7
42.5°	1562.3	1529.9	1497.4	1465.0	1432.5	1400.1	1367.6	1335.2	1290.7	1246.2	1201.7
45°	1601.3	1565.3	1529.4	1493.5	1457.6	1421.6	1385.7	1349.8	1302.0	1254.3	1206.5
47.5°	1636.9	1598.0	1559.1	1520.1	1481.2	1442.3	1403.3	1364.4	1313.4	1262.4	1211.4
50°	1674.9	1632.1	1589.2	1546.3	1503.4	1460.6	1417.7	1374.8	1321.0	1267.2	1213.5
52.5°	1709.8	1663.4	1617.0	1570.7	1524.3	1477.9	1431.6	1385.2	1328.4	1271.6	1214.8
55°	1751.0	1700.2	1649.5	1598.7	1548.0	1497.2	1446.5	1395.7	1335.9	1276.1	1216.3
57.5°	1787.8	1733.6	1679.4	1625.1	1570.9	1516.7	1462.4	1408.2	1345.1	1282.1	1219.0
60°	1822.7	1764.9	1707.2	1649.5	1591.8	1534.0	1476.3	1418.6	1352.3	1286.0	1219.7
62.5°	1850.4	1789.9	1729.4	1668.9	1608.4	1547.9	1487.4	1426.9	1357.4	1287.8	1218.3
65°	1871.3	1808.7	1746.1	1683.6	1621.0	1558.4	1495.8	1433.2	1360.4	1287.6	1214.8
67.5°	1882.7	1818.5	1754.3	1690.0	1625.8	1561.6	1497.4	1433.2	1357.6	1282.1	1206.5
70°	1882.9	1817.8	1752.6	1687.5	1622.3	1557.2	1492.0	1426.9	1349.0	1271.1	1193.3
72.5°	1864.6	1799.7	1734.8	1669.9	1605.0	1540.1	1475.2	1410.3	1331.0	1251.7	1172.5
75°	1828.8	1764.9	1700.9	1636.9	1572.9	1509.0	1445.0	1381.0	1301.7	1222.5	1143.2
77.5°	1781.2	1718.3	1655.5	1592.7	1529.9	1467.0	1404.2	1341.4	1262.6	1183.8	1105.0
80°	1718.1	1657.1	1596.1	1535.2	1474.2	1413.2	1352.3	1291.3	1214.3	1137.4	1060.4
82.5°	1645.5	1586.9	1528.2	1469.6	1410.9	1352.3	1293.6	1235.0	1160.6	1086.2	1011.8
85°	1575.1	1518.7	1462.4	1406.1	1349.8	1293.4	1237.1	1180.8	1108.9	1037.1	965.2
87.5°	1504.6	1450.6	1396.6	1342.5	1288.5	1234.5	1180.5	1126.5	1056.7	987.0	917.2
90°	1443.0	1391.5	1340.0	1288.6	1237.1	1185.6	1134.2	1082.7	1015.2	947.8	880.3
92.5°	1386.6	1337.3	1287.9	1238.5	1189.1	1139.8	1090.4	1041.0	975.6	910.3	844.9
95°	1334.4	1287.2	1239.9	1192.6	1145.3	1098.1	1050.8	1003.5	940.0	876.5	812.9
97.5°	1285.1	1239.2	1193.3	1147.4	1101.5	1055.6	1009.7	963.8	902.1	840.5	778.8
100°	1237.8	1193.3	1148.8	1104.3	1059.8	1015.3	970.8	926.3	866.3	806.2	746.2
102.5°	1190.0	1146.7	1103.3	1060.0	1016.6	973.3	929.9	886.6	828.4	770.2	712.1
105°	1144.4	1102.2	1060.0	1017.9	975.7	933.5	891.3	849.1	792.3	735.5	678.7
107.5°	1099.2	1058.4	1017.6	976.8	936.0	895.2	854.4	813.6	758.2	702.8	647.4
110°	1049.8	1010.4	971.0	931.6	892.2	852.8	813.4	774.0	720.2	666.4	612.7



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	1001.4	963.8	926.3	888.7	851.2	813.6	776.1	738.5	686.1	633.7	581.3
115°	951.1	914.4	877.8	841.2	804.6	767.9	731.3	694.7	644.6	594.6	544.5
117.5°	901.0	866.5	831.9	797.4	762.8	728.3	693.7	659.2	610.5	561.8	513.2
120°	848.6	815.0	781.4	747.7	714.1	680.5	646.9	613.3	566.9	520.6	474.2
122.5°	797.2	764.9	732.7	700.5	668.3	636.0	603.8	571.6	527.3	483.1	438.8
125°	744.3	712.8	681.3	649.7	618.2	586.7	555.1	523.6	482.3	441.1	399.8
127.5°	688.2	657.8	627.4	597.1	566.7	536.3	506.0	475.6	437.1	398.6	360.2
130°	633.5	605.0	576.5	547.9	519.4	490.9	462.4	433.9	398.0	362.1	326.1
132.5°	577.2	550.7	524.3	497.9	471.5	445.0	418.6	392.2	358.8	325.4	292.1
135°	522.5	497.9	473.3	448.8	424.2	399.6	375.1	350.5	319.9	289.3	258.7
137.5°	466.1	443.7	421.2	398.7	376.2	353.8	331.3	308.8	281.0	253.2	225.3
140°	413.1	392.2	371.3	350.5	329.6	308.7	287.9	267.0	242.2	217.4	192.6
142.5°	362.0	342.8	323.6	304.3	285.1	265.9	246.6	227.4	205.6	183.8	162.0
145°	311.5	294.1	276.7	259.4	242.0	224.6	207.2	189.8	171.3	152.7	134.2
147.5°	263.1	247.6	232.1	216.5	201.0	185.5	169.9	154.4	139.3	124.3	109.2
150°	215.1	201.7	188.2	174.8	161.3	147.9	134.4	121.0	109.2	97.4	85.5
152.5°	170.8	159.2	147.6	136.1	124.5	112.9	101.3	89.7	80.9	72.1	63.3
155°	129.1	119.6	110.1	100.6	91.1	81.6	72.1	62.6	56.3	50.1	43.8
157.5°	91.6	84.1	76.7	69.3	61.9	54.4	47.0	39.6	35.7	31.7	27.8
160°	60.7	55.6	50.5	45.4	40.3	35.2	30.1	25.0	22.2	19.4	16.7
162.5°	32.5	29.9	27.4	24.8	22.3	19.7	17.2	14.6	13.0	11.4	9.7
165°	18.1	16.7	15.3	13.9	12.5	11.1	9.7	8.3	7.4	6.5	5.5
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: P201404

CATALOG NUMBER: 8LBLELD4-9-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1038.7	1037.1	1035.5	1033.8	1032.2	1030.6	1031.5	1032.4	1033.4	1034.3	1035.2
5°	1046.6	1043.8	1041.0	1038.3	1035.5	1032.7	1032.9	1033.1	1033.4	1033.6	1033.8
7.5°	1056.5	1052.6	1048.6	1044.7	1040.7	1036.8	1035.9	1035.0	1034.0	1033.1	1032.2
10°	1063.7	1057.9	1052.1	1046.3	1040.5	1034.7	1032.6	1030.5	1028.5	1026.4	1024.3
12.5°	1073.3	1065.1	1057.0	1048.9	1040.8	1032.7	1029.2	1025.7	1022.3	1018.8	1015.3
15°	1080.7	1070.2	1059.8	1049.4	1038.9	1028.5	1023.6	1018.8	1013.9	1009.0	1004.2
17.5°	1091.5	1078.1	1064.6	1051.2	1037.7	1024.3	1017.6	1010.9	1004.1	997.4	990.7
20°	1101.7	1084.6	1067.4	1050.3	1033.1	1016.0	1007.7	999.3	991.0	982.6	974.3
22.5°	1110.8	1090.1	1069.5	1048.9	1028.2	1007.6	997.4	987.2	977.0	966.8	956.6
25°	1116.6	1092.7	1068.8	1045.0	1021.1	997.2	985.1	973.1	961.0	949.0	936.9
27.5°	1125.6	1098.2	1070.9	1043.5	1016.2	988.8	974.2	959.6	945.0	930.4	915.8
30°	1130.2	1099.9	1069.5	1039.1	1008.8	978.4	961.5	944.6	927.6	910.7	893.8
32.5°	1136.8	1103.8	1070.9	1038.0	1005.1	972.2	952.0	931.9	911.7	891.5	871.4
35°	1142.3	1106.6	1070.9	1035.2	999.5	963.8	940.6	917.4	894.3	871.1	847.9
37.5°	1147.0	1108.2	1069.5	1030.8	992.1	953.4	927.2	901.0	874.8	848.6	822.4
40°	1152.7	1110.8	1068.8	1026.9	984.9	943.0	913.8	884.6	855.4	826.2	796.9
42.5°	1157.2	1112.6	1068.1	1023.6	979.1	934.6	901.9	869.2	836.6	803.9	771.2
45°	1158.8	1111.0	1063.3	1015.5	967.8	920.0	884.5	849.1	813.6	778.1	742.7
47.5°	1160.4	1109.4	1058.4	1007.4	956.4	905.4	866.9	828.4	790.0	751.5	713.0
50°	1159.7	1105.9	1052.1	998.4	944.6	890.8	849.1	807.4	765.6	723.9	682.2
52.5°	1158.0	1101.3	1044.5	987.7	930.9	874.1	829.6	785.1	740.6	696.1	651.6
55°	1156.5	1096.6	1036.8	977.0	917.2	857.4	810.3	763.3	716.2	669.2	622.1
57.5°	1156.0	1092.9	1029.9	966.8	903.8	840.7	790.9	741.0	691.2	641.4	591.5
60°	1153.4	1087.2	1020.9	954.6	888.3	822.0	769.8	717.7	665.5	613.4	561.2
62.5°	1148.8	1079.2	1009.7	940.2	870.6	801.1	746.9	692.6	638.4	584.1	529.9
65°	1142.0	1069.3	996.5	923.7	850.9	778.1	721.8	665.5	609.1	552.8	496.5
67.5°	1130.9	1055.4	979.8	904.2	828.7	753.1	695.4	637.7	580.0	522.3	464.5
70°	1115.4	1037.5	959.6	881.8	803.9	726.0	666.9	607.8	548.7	489.6	430.4
72.5°	1093.2	1013.9	934.6	855.4	776.1	696.8	637.2	577.6	518.1	458.5	398.9
75°	1063.9	984.7	905.4	826.1	746.9	667.6	607.6	547.5	487.5	427.5	367.4
77.5°	1026.2	947.3	868.5	789.7	710.9	632.1	572.3	512.5	452.7	392.9	333.1
80°	983.5	906.5	829.6	752.6	675.7	598.7	539.4	480.0	420.7	361.4	302.0
82.5°	937.4	863.0	788.6	714.2	639.8	565.4	507.0	448.6	390.1	331.7	273.3
85°	893.4	821.5	749.7	677.8	606.0	534.1	476.6	419.1	361.6	304.1	246.7
87.5°	847.4	777.7	707.9	638.1	568.4	498.6	443.4	388.3	333.1	277.9	222.8
90°	812.9	745.4	678.0	610.5	543.1	475.6	422.8	369.9	317.1	264.2	211.4
92.5°	779.5	714.2	648.8	583.4	518.1	452.7	402.4	352.1	301.8	251.5	201.2
95°	749.4	685.9	622.4	558.8	495.3	431.8	383.8	335.8	287.9	239.9	191.9
97.5°	717.2	655.5	593.9	532.2	470.6	408.9	363.5	318.0	272.6	227.2	181.7
100°	686.1	626.1	566.0	506.0	445.9	385.9	343.0	300.1	257.3	214.4	171.5
102.5°	653.9	595.7	537.5	479.4	421.2	363.0	322.7	282.3	242.0	201.7	161.3
105°	621.9	565.2	508.4	451.6	394.8	338.0	300.4	262.9	225.3	187.8	150.2
107.5°	592.0	536.6	481.2	425.8	370.4	315.0	280.0	245.0	210.0	175.0	140.0
110°	558.9	505.1	451.3	397.6	343.8	290.0	257.8	225.6	193.3	161.1	128.9



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	528.9	476.6	424.2	371.8	319.4	267.0	237.3	207.7	178.0	148.3	118.7
115°	494.4	444.4	394.3	344.2	294.2	244.1	217.0	189.9	162.7	135.6	108.5
117.5°	464.5	415.8	367.1	318.5	269.8	221.1	196.5	172.0	147.4	122.8	98.3
120°	427.9	381.5	335.2	288.8	242.5	196.1	174.3	152.5	130.7	108.9	87.2
122.5°	394.5	350.3	306.0	261.7	217.5	173.2	154.0	134.7	115.5	96.2	77.0
125°	358.6	317.3	276.1	234.8	193.6	152.3	135.4	118.5	101.5	84.6	67.7
127.5°	321.7	283.2	244.7	206.3	167.8	129.3	114.9	100.6	86.2	71.8	57.5
130°	290.2	254.3	218.4	182.4	146.5	110.6	98.3	86.0	73.7	61.4	49.2
132.5°	258.7	225.3	191.9	158.6	125.2	91.8	81.6	71.4	61.2	51.0	40.8
135°	228.1	197.5	166.9	136.3	105.7	75.1	66.8	58.4	50.1	41.7	33.4
137.5°	197.5	169.7	141.9	114.0	86.2	58.4	51.9	45.4	38.9	32.4	26.0
140°	167.8	143.0	118.2	93.4	68.6	43.8	38.9	34.1	29.2	24.3	19.5
142.5°	140.2	118.5	96.7	74.9	53.1	31.3	27.8	24.3	20.9	17.4	13.9
145°	115.6	97.1	78.5	60.0	41.4	22.9	20.4	17.8	15.3	12.7	10.2
147.5°	94.1	79.1	64.0	48.9	33.9	18.8	16.7	14.6	12.5	10.4	8.4
150°	73.7	61.9	50.1	38.2	26.4	14.6	13.0	11.4	9.7	8.1	6.5
152.5°	54.5	45.6	36.8	28.0	19.2	10.4	9.2	8.1	6.9	5.8	4.6
155°	37.6	31.3	25.1	18.8	12.6	6.3	5.6	4.9	4.2	3.5	2.8
157.5°	23.9	19.9	16.0	12.1	8.1	4.2	3.7	3.3	2.8	2.3	1.9
160°	13.9	11.1	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	8.1	6.5	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
165°	4.6	3.7	2.8	1.8	0.9	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: P201404

CATALOG NUMBER: 8LBLELD4-9-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1036.1	1037.1	1038.0	1038.9	1036.8	1034.7	1032.6	1030.5	1028.5	1026.4	1024.3
5°	1034.0	1034.3	1034.5	1034.7	1031.9	1029.1	1026.4	1023.6	1020.8	1018.0	1015.3
7.5°	1031.3	1030.3	1029.4	1028.5	1025.0	1021.5	1018.1	1014.6	1011.1	1007.6	1004.2
10°	1022.2	1020.2	1018.1	1016.0	1012.1	1008.1	1004.2	1000.2	996.3	992.3	988.4
12.5°	1011.8	1008.4	1004.9	1001.4	997.2	993.0	988.9	984.7	980.5	976.3	972.2
15°	999.3	994.4	989.6	984.7	980.1	975.4	970.8	966.2	961.5	956.9	952.3
17.5°	984.0	977.2	970.5	963.8	959.6	955.5	951.3	947.1	943.0	938.8	934.6
20°	965.9	957.6	949.2	940.9	936.5	932.1	927.7	923.3	918.8	914.4	910.0
22.5°	946.4	936.2	926.0	915.8	911.9	907.9	904.0	900.1	896.1	892.2	888.3
25°	924.9	912.8	900.8	888.7	885.5	882.2	879.0	875.7	872.5	869.2	866.0
27.5°	901.2	886.6	872.0	857.4	855.1	852.8	850.5	848.2	845.8	843.5	841.2
30°	876.9	859.9	843.0	826.1	824.9	823.8	822.6	821.5	820.3	819.2	818.0
32.5°	851.2	831.0	810.9	790.7	791.2	791.6	792.1	792.5	793.0	793.4	793.9
35°	824.7	801.6	778.4	755.2	758.0	760.8	763.5	766.3	769.1	771.9	774.6
37.5°	796.2	770.0	743.8	717.6	722.7	727.8	732.9	738.0	743.1	748.2	753.3
40°	767.7	738.5	709.3	680.1	688.0	695.9	703.7	711.6	719.5	727.4	735.2
42.5°	738.5	705.9	673.2	640.5	651.2	661.8	672.5	683.1	693.8	704.4	715.1
45°	707.2	671.7	636.3	600.8	614.0	627.2	640.4	653.6	666.9	680.1	693.3
47.5°	674.5	636.1	597.6	559.1	575.1	591.1	607.1	623.1	639.0	655.0	671.0
50°	640.5	598.7	557.0	515.3	534.3	553.3	572.3	591.3	610.4	629.4	648.4
52.5°	607.1	562.6	518.1	473.6	495.4	517.2	539.0	560.8	582.5	604.3	626.1
55°	575.1	528.0	481.0	433.9	457.8	481.7	505.5	529.4	553.3	577.2	601.0
57.5°	541.7	491.9	442.0	392.2	418.6	445.0	471.5	497.9	524.3	550.7	577.2
60°	509.1	456.9	404.8	352.6	381.1	409.6	438.1	466.6	495.2	523.7	552.2
62.5°	475.6	421.4	367.1	312.9	343.3	373.6	404.0	434.4	464.7	495.1	525.5
65°	440.2	383.8	327.5	271.2	303.7	336.1	368.6	401.0	433.5	465.9	498.4
67.5°	406.8	349.1	291.4	233.7	267.8	301.8	335.9	370.0	404.0	438.1	472.2
70°	371.3	312.2	253.1	194.0	229.0	264.0	299.0	334.0	369.0	404.0	439.0
72.5°	339.3	279.8	220.2	160.6	196.5	232.5	268.4	304.3	340.3	376.2	412.1
75°	307.4	247.4	187.3	127.3	164.2	201.0	237.9	274.7	311.6	348.4	385.3
77.5°	273.3	213.5	153.7	93.9	131.4	169.0	206.5	244.1	281.6	319.2	356.7
80°	242.7	183.4	124.0	64.7	102.5	140.3	178.0	215.8	253.6	291.4	329.1
82.5°	214.9	156.4	98.0	39.6	77.4	115.2	153.0	190.8	228.5	266.3	304.1
85°	189.2	131.7	74.2	16.7	54.2	91.8	129.3	166.9	204.4	242.0	279.5
87.5°	167.6	112.4	57.3	2.1	38.7	75.3	112.0	148.6	185.2	221.8	258.5
90°	158.5	105.7	52.8	0.0	34.8	69.5	104.3	139.1	173.8	208.6	243.4
92.5°	150.9	100.6	50.3	0.0	33.6	67.2	100.8	134.4	168.1	201.7	235.3
95°	143.9	96.0	48.0	0.0	32.2	64.4	96.7	128.9	161.1	193.3	225.6
97.5°	136.3	90.9	45.4	0.0	30.8	61.7	92.5	123.3	154.2	185.0	215.8
100°	128.6	85.8	42.9	0.0	29.4	58.9	88.3	117.7	147.2	176.6	206.0
102.5°	121.0	80.7	40.3	0.0	27.8	55.6	83.4	111.2	139.1	166.9	194.7
105°	112.7	75.1	37.6	0.0	26.4	52.8	79.3	105.7	132.1	158.5	185.0
107.5°	105.0	70.0	35.0	0.0	24.8	49.6	74.4	99.2	124.0	148.8	173.6
110°	96.7	64.4	32.2	0.0	23.2	46.4	69.5	92.7	115.9	139.1	162.2



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	89.0	59.3	29.7	0.0	21.3	42.6	64.0	85.3	106.6	127.9	149.3
115°	81.4	54.2	27.1	0.0	19.5	38.9	58.4	77.9	97.3	116.8	136.3
117.5°	73.7	49.1	24.6	0.0	17.6	35.2	52.8	70.4	88.1	105.7	123.3
120°	65.4	43.6	21.8	0.0	16.0	32.0	48.0	64.0	79.9	95.9	111.9
122.5°	57.7	38.5	19.2	0.0	14.4	28.7	43.1	57.5	71.8	86.2	100.6
125°	50.8	33.8	16.9	0.0	12.3	24.6	36.9	49.2	61.4	73.7	86.0
127.5°	43.1	28.7	14.4	0.0	10.2	20.4	30.6	40.8	51.0	61.2	71.4
130°	36.9	24.6	12.3	0.0	8.3	16.7	25.0	33.4	41.7	50.1	58.4
132.5°	30.6	20.4	10.2	0.0	6.5	13.0	19.5	26.0	32.4	38.9	45.4
135°	25.0	16.7	8.3	0.0	4.9	9.7	14.6	19.5	24.3	29.2	34.1
137.5°	19.5	13.0	6.5	0.0	3.5	7.0	10.4	13.9	17.4	20.9	24.3
140°	14.6	9.7	4.9	0.0	2.1	4.2	6.3	8.4	10.4	12.5	14.6
142.5°	10.4	7.0	3.5	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.1
145°	7.6	5.1	2.5	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3
147.5°	6.3	4.2	2.1	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°	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.4	0.9	0.5	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: P201404

CATALOG NUMBER: 8LBLED-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1022.2	1020.1	1019.6	1019.2	1018.7	1018.3	1017.8	1017.4	1016.9	1016.5	1016.0
5°	1012.5	1009.7	1008.8	1007.9	1006.9	1006.0	1005.1	1004.2	1003.2	1002.3	1001.4
7.5°	1000.7	997.2	996.0	994.9	993.7	992.6	991.4	990.3	989.1	988.0	986.8
10°	984.4	980.5	979.3	978.2	977.0	975.9	974.7	973.6	972.4	971.3	970.1
12.5°	968.0	963.8	963.1	962.4	961.7	961.0	960.4	959.7	959.0	958.3	957.6
15°	947.6	943.0	943.5	943.9	944.4	944.8	945.3	945.7	946.2	946.6	947.1
17.5°	930.5	926.3	928.2	930.0	931.9	933.7	935.6	937.4	939.3	941.1	943.0
20°	905.6	901.2	905.8	910.5	915.1	919.8	924.4	929.1	933.7	938.4	943.0
22.5°	884.3	880.4	888.5	896.6	904.7	912.8	921.0	929.1	937.2	945.3	953.4
25°	862.7	859.5	871.1	882.7	894.3	905.9	917.4	929.0	940.6	952.2	963.8
27.5°	838.9	836.6	851.9	867.2	882.5	897.8	913.0	928.3	943.6	958.9	974.2
30°	816.9	815.7	834.2	852.8	871.3	889.9	908.4	927.0	945.5	964.1	982.6
32.5°	794.3	794.8	816.4	837.9	859.5	881.0	902.6	924.1	945.7	967.2	988.8
35°	777.4	780.2	804.1	828.0	851.8	875.7	899.6	923.5	947.3	971.2	995.1
37.5°	758.4	763.5	789.5	815.4	841.4	867.4	893.3	919.3	945.3	971.2	997.2
40°	743.1	751.0	778.8	806.6	834.5	862.3	890.1	917.9	945.8	973.6	1001.4
42.5°	725.7	736.4	765.8	795.3	824.7	854.2	883.6	913.1	942.5	972.0	1001.4
45°	706.5	719.7	751.0	782.3	813.6	844.9	876.2	907.5	938.8	970.1	1001.4
47.5°	687.0	703.0	736.2	769.3	802.5	835.6	868.8	901.9	935.1	968.2	1001.4
50°	667.4	686.4	721.2	755.9	790.7	825.5	860.2	895.0	929.8	964.5	999.3
52.5°	647.9	669.7	705.9	742.0	778.2	814.3	850.5	886.6	922.8	958.9	995.1
55°	624.9	648.8	686.6	724.4	762.1	799.9	837.7	875.5	913.2	951.0	988.8
57.5°	603.6	630.0	669.2	708.4	747.5	786.7	825.9	865.1	904.2	943.4	982.6
60°	580.7	609.2	649.8	690.3	730.9	771.4	812.0	852.5	893.1	933.6	974.2
62.5°	555.8	586.2	628.4	670.6	712.8	755.0	797.1	839.3	881.5	923.7	965.9
65°	530.8	563.3	606.9	650.5	694.0	737.6	781.2	824.8	868.3	911.9	955.5
67.5°	506.2	540.3	584.8	629.3	673.8	718.3	762.9	807.4	851.9	896.4	940.9
70°	474.0	509.0	555.1	601.3	647.4	693.5	739.7	785.8	831.9	878.1	924.2
72.5°	448.1	484.0	530.6	577.2	623.8	670.4	716.9	763.5	810.1	856.7	903.3
75°	422.1	459.0	505.8	552.6	599.5	646.3	693.1	739.9	786.8	833.6	880.4
77.5°	394.3	431.8	478.6	525.4	572.3	619.1	665.9	712.7	759.6	806.4	853.2
80°	366.9	404.7	451.1	497.4	543.8	590.2	636.5	682.9	729.3	775.6	822.0
82.5°	341.9	379.7	425.4	471.0	516.7	562.4	608.0	653.7	699.4	745.0	790.7
85°	317.1	354.6	399.6	444.6	489.5	534.5	579.5	624.5	669.4	714.4	759.4
87.5°	295.1	331.7	375.5	419.3	463.1	506.9	550.8	594.6	638.4	682.2	726.0
90°	278.1	312.9	356.0	399.1	442.3	485.4	528.5	571.6	614.8	657.9	701.0
92.5°	268.9	302.5	344.5	386.4	428.4	470.3	512.3	554.2	596.2	638.1	680.1
95°	257.8	290.0	331.5	373.0	414.5	456.0	497.4	538.9	580.4	621.9	663.4
97.5°	246.7	277.5	318.3	359.1	399.9	440.7	481.4	522.2	563.0	603.8	644.6
100°	235.5	264.9	305.0	345.1	385.2	425.3	465.5	505.6	545.7	585.8	625.9
102.5°	222.5	250.3	289.9	329.6	369.2	408.9	448.5	488.2	527.8	567.5	607.1
105°	211.4	237.8	276.5	315.2	353.9	392.6	431.4	470.1	508.8	547.5	586.2
107.5°	198.4	223.2	261.0	298.8	336.6	374.4	412.1	449.9	487.7	525.5	563.3
110°	185.4	208.6	245.5	282.3	319.2	356.0	392.9	429.7	466.6	503.4	540.3



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	170.6	191.9	227.4	262.8	298.3	333.8	369.2	404.7	440.2	475.6	511.1
115°	155.7	175.2	210.0	244.8	279.5	314.3	349.1	383.9	418.6	453.4	488.2
117.5°	140.9	158.5	192.1	225.7	259.3	292.9	326.6	360.2	393.8	427.4	461.0
120°	127.9	143.9	176.4	208.8	241.3	273.7	306.2	338.6	371.1	403.5	436.0
122.5°	114.9	129.3	160.4	191.4	222.5	253.6	284.6	315.7	346.8	377.8	408.9
125°	98.3	110.6	140.3	169.9	199.6	229.3	258.9	288.6	318.3	347.9	377.6
127.5°	81.6	91.8	119.8	147.9	175.9	204.0	232.0	260.1	288.1	316.2	344.2
130°	66.8	75.1	100.4	125.6	150.9	176.2	201.4	226.7	252.0	277.2	302.5
132.5°	51.9	58.4	81.1	103.8	126.6	149.3	172.0	194.7	217.5	240.2	262.9
135°	38.9	43.8	64.2	84.6	105.0	125.4	145.8	166.2	186.6	207.0	227.4
137.5°	27.8	31.3	49.4	67.5	85.5	103.6	121.7	139.8	157.8	175.9	194.0
140°	16.7	18.8	34.8	50.8	66.8	82.8	98.7	114.7	130.7	146.7	162.7
142.5°	9.2	10.4	24.1	37.8	51.4	65.1	78.8	92.5	106.1	119.8	133.5
145°	3.7	4.2	15.6	26.9	38.3	49.6	61.0	72.3	83.7	95.0	106.4
147.5°	0.0	0.0	9.3	18.5	27.8	37.1	46.3	55.6	64.9	74.1	83.4
150°	0.0	0.0	6.7	13.4	20.2	26.9	33.6	40.3	47.1	53.8	60.5
152.5°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	26.4	30.8	35.2	39.6
155°	0.0	0.0	2.5	5.1	7.6	10.2	12.7	15.3	17.8	20.4	22.9
157.5°	0.0	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.1	9.2	10.4
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: P201404

CATALOG NUMBER: 8LBLELD4-9-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1015.3	1014.6	1013.9	1013.2	1012.5	1011.8	1011.1	1010.4	1009.7	1008.8	1007.9
5°	1000.5	999.5	998.6	997.7	996.7	995.8	994.9	993.9	993.0	992.5	992.1
7.5°	986.1	985.4	984.7	984.0	983.3	982.6	981.9	981.2	980.5	980.3	980.0
10°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
12.5°	958.8	959.9	961.1	962.2	963.4	964.5	965.7	966.8	968.0	968.5	968.9
15°	949.9	952.7	955.5	958.3	961.0	963.8	966.6	969.4	972.2	973.8	975.4
17.5°	948.6	954.1	959.7	965.2	970.8	976.3	981.9	987.4	993.0	995.6	998.1
20°	951.1	959.2	967.3	975.4	983.6	991.7	999.8	1007.9	1016.0	1019.0	1022.0
22.5°	963.1	972.9	982.6	992.3	1002.1	1011.8	1021.5	1031.3	1041.0	1044.2	1047.5
25°	974.7	985.6	996.5	1007.4	1018.3	1029.2	1040.1	1051.0	1061.9	1065.8	1069.8
27.5°	986.3	998.3	1010.4	1022.4	1034.5	1046.5	1058.6	1070.6	1082.7	1087.1	1091.5
30°	995.8	1009.0	1022.2	1035.4	1048.7	1061.9	1075.1	1088.3	1101.5	1106.6	1111.7
32.5°	1003.6	1018.5	1033.3	1048.2	1063.0	1077.9	1092.7	1107.6	1122.4	1128.0	1133.5
35°	1011.1	1027.1	1043.1	1059.1	1075.1	1091.1	1107.1	1123.1	1139.1	1145.6	1152.1
37.5°	1014.8	1032.4	1050.0	1067.6	1085.3	1102.9	1120.5	1138.1	1155.7	1162.9	1170.1
40°	1020.4	1039.4	1058.4	1077.4	1096.4	1115.4	1134.4	1153.4	1172.4	1180.3	1188.2
42.5°	1022.0	1042.6	1063.3	1083.9	1104.5	1125.1	1145.8	1166.4	1187.0	1195.8	1204.6
45°	1023.6	1045.9	1068.1	1090.4	1112.6	1134.9	1157.1	1179.4	1201.6	1211.1	1220.6
47.5°	1025.3	1049.1	1073.0	1096.9	1120.7	1144.6	1168.5	1192.3	1216.2	1226.4	1236.6
50°	1024.8	1050.3	1075.8	1101.3	1126.8	1152.3	1177.8	1203.3	1228.8	1239.9	1251.0
52.5°	1022.7	1050.3	1077.9	1105.5	1133.0	1160.6	1188.2	1215.8	1243.4	1255.0	1266.6
55°	1018.0	1047.2	1076.4	1105.6	1134.9	1164.1	1193.3	1222.5	1251.7	1264.0	1276.3
57.5°	1013.4	1044.3	1075.1	1105.9	1136.8	1167.6	1198.4	1229.3	1260.1	1272.8	1285.6
60°	1006.4	1038.6	1070.9	1103.1	1135.3	1167.5	1199.8	1232.0	1264.2	1277.4	1290.6
62.5°	999.0	1032.2	1065.3	1098.5	1131.6	1164.8	1197.9	1231.1	1264.2	1277.6	1291.1
65°	989.6	1023.6	1057.7	1091.8	1125.8	1159.9	1194.0	1228.0	1262.1	1275.5	1289.0
67.5°	975.7	1010.4	1045.2	1080.0	1114.7	1149.5	1184.3	1219.0	1253.8	1267.5	1281.2
70°	959.4	994.7	1029.9	1065.1	1100.4	1135.6	1170.8	1206.1	1241.3	1255.2	1269.1
72.5°	938.8	974.2	1009.7	1045.2	1080.6	1116.1	1151.6	1187.0	1222.5	1236.4	1250.3
75°	916.1	951.8	987.5	1023.2	1058.8	1094.5	1130.2	1165.9	1201.6	1215.3	1229.0
77.5°	888.4	923.7	958.9	994.1	1029.4	1064.6	1099.8	1135.1	1170.3	1183.7	1197.2
80°	857.0	892.0	927.0	962.0	997.0	1032.0	1067.0	1102.0	1137.0	1150.7	1164.4
82.5°	825.5	860.2	895.0	929.8	964.5	999.3	1034.1	1068.8	1103.6	1116.6	1129.6
85°	793.5	827.5	861.6	895.7	929.7	963.8	997.9	1031.9	1066.0	1079.0	1092.0
87.5°	759.4	792.8	826.1	859.5	892.9	926.3	959.6	993.0	1026.4	1039.1	1051.9
90°	733.4	765.9	798.3	830.8	863.2	895.7	928.1	960.6	993.0	1005.3	1017.6
92.5°	711.9	743.6	775.4	807.1	838.9	870.6	902.4	934.1	965.9	977.7	989.5
95°	694.2	725.1	755.9	786.7	817.6	848.4	879.2	910.1	940.9	952.7	964.5
97.5°	674.7	704.9	735.0	765.1	795.3	825.4	855.5	885.7	915.8	927.2	938.5
100°	655.8	685.7	715.6	745.5	775.4	805.3	835.2	865.1	895.0	905.9	916.8
102.5°	636.3	665.5	694.7	723.9	753.1	782.3	811.5	840.7	869.9	880.6	891.2
105°	614.9	643.7	672.4	701.2	729.9	758.7	787.4	816.2	844.9	855.6	866.2
107.5°	591.3	619.4	647.4	675.5	703.5	731.6	759.6	787.7	815.7	826.4	837.0
110°	567.7	595.0	622.4	649.7	677.1	704.4	731.8	759.1	786.5	796.7	806.9



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	538.5	565.8	593.2	620.5	647.9	675.2	702.6	729.9	757.3	767.3	777.2
115°	514.4	540.6	566.8	593.0	619.1	645.3	671.5	697.7	723.9	733.4	742.9
117.5°	486.5	512.0	537.5	563.0	588.5	614.0	639.5	665.0	690.5	700.0	709.5
120°	460.6	485.1	509.7	534.3	558.8	583.4	608.0	632.5	657.1	666.1	675.2
122.5°	432.3	455.7	479.1	502.5	526.0	549.4	572.8	596.2	619.6	628.6	637.7
125°	400.3	423.0	445.7	468.4	491.2	513.9	536.6	559.3	582.0	590.6	599.2
127.5°	366.5	388.7	411.0	433.2	455.5	477.7	500.0	522.2	544.5	552.6	560.7
130°	324.5	346.5	368.6	390.6	412.6	434.6	456.7	478.7	500.7	509.0	517.4
132.5°	284.2	305.5	326.9	348.2	369.5	390.8	412.2	433.5	454.8	463.1	471.5
135°	248.0	268.7	289.3	309.9	330.6	351.2	371.8	392.5	413.1	420.7	428.4
137.5°	213.7	233.4	253.1	272.8	292.5	312.2	331.9	351.6	371.3	378.3	385.2
140°	180.3	197.9	215.6	233.2	250.8	268.4	286.1	303.7	321.3	328.7	336.1
142.5°	148.8	164.1	179.4	194.7	210.0	225.3	240.6	255.9	271.2	279.1	287.0
145°	119.8	133.3	146.7	160.2	173.6	187.1	200.5	214.0	227.4	235.5	243.6
147.5°	94.8	106.1	117.5	128.9	140.2	151.6	163.0	174.3	185.7	193.8	201.9
150°	70.2	80.0	89.7	99.4	109.2	118.9	128.6	138.4	148.1	156.0	163.9
152.5°	47.7	55.8	64.0	72.1	80.2	88.3	96.5	104.6	112.7	120.1	127.5
155°	29.2	35.4	41.7	48.0	54.2	60.5	66.8	73.0	79.3	86.0	92.7
157.5°	15.0	19.7	24.3	29.0	33.6	38.3	42.9	47.6	52.2	58.0	63.8
160°	3.0	6.0	9.0	12.0	15.1	18.1	21.1	24.1	27.1	31.5	35.9
162.5°	0.9	1.8	2.8	3.7	4.6	5.5	6.5	7.4	8.3	11.3	14.3
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: P201404

CATALOG NUMBER: 8LBLEDD4-9-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1006.9	1006.0	1005.1	1004.2	1003.2	1002.3	1001.4	1001.9	1002.3	1002.8	1003.2
5°	991.6	991.1	990.7	990.2	989.7	989.3	988.8	989.0	989.3	989.5	989.7
7.5°	979.8	979.6	979.3	979.1	978.9	978.6	978.4	978.4	978.4	978.4	978.4
10°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	969.6	969.2	968.7	968.2
12.5°	969.4	969.9	970.3	970.8	971.3	971.7	972.2	971.3	970.3	969.4	968.5
15°	977.1	978.7	980.3	981.9	983.6	985.2	986.8	985.2	983.6	981.9	980.3
17.5°	1000.7	1003.2	1005.8	1008.3	1010.9	1013.4	1016.0	1013.2	1010.4	1007.6	1004.8
20°	1025.0	1028.0	1031.1	1034.1	1037.1	1040.1	1043.1	1039.6	1036.1	1032.7	1029.2
22.5°	1050.7	1054.0	1057.2	1060.5	1063.7	1067.0	1070.2	1066.0	1061.9	1057.7	1053.5
25°	1073.7	1077.6	1081.6	1085.5	1089.4	1093.4	1097.3	1092.7	1088.0	1083.4	1078.8
27.5°	1095.9	1100.3	1104.8	1109.2	1113.6	1118.0	1122.4	1117.5	1112.7	1107.8	1102.9
30°	1116.8	1121.9	1127.0	1132.1	1137.2	1142.3	1147.4	1141.8	1136.3	1130.7	1125.1
32.5°	1139.1	1144.6	1150.2	1155.7	1161.3	1166.8	1172.4	1166.1	1159.9	1153.6	1147.4
35°	1158.6	1165.1	1171.5	1178.0	1184.5	1191.0	1197.5	1190.5	1183.6	1176.6	1169.7
37.5°	1177.3	1184.5	1191.6	1198.8	1206.0	1213.2	1220.4	1213.0	1205.6	1198.2	1190.8
40°	1196.1	1204.0	1211.8	1219.7	1227.6	1235.5	1243.4	1235.5	1227.6	1219.7	1211.8
42.5°	1213.4	1222.2	1231.1	1239.9	1248.7	1257.5	1266.3	1257.5	1248.7	1239.9	1231.1
45°	1230.1	1239.6	1249.2	1258.7	1268.2	1277.7	1287.2	1277.9	1268.6	1259.4	1250.1
47.5°	1246.8	1257.0	1267.2	1277.4	1287.6	1297.8	1308.0	1298.0	1288.1	1278.1	1268.1
50°	1262.2	1273.3	1284.4	1295.5	1306.7	1317.8	1328.9	1318.2	1307.6	1296.9	1286.2
52.5°	1278.2	1289.8	1301.3	1312.9	1324.5	1336.1	1347.7	1336.3	1325.0	1313.6	1302.2
55°	1288.6	1300.9	1313.1	1325.4	1337.7	1350.0	1362.3	1350.5	1338.7	1326.8	1315.0
57.5°	1298.3	1311.1	1323.8	1336.6	1349.3	1362.1	1374.8	1362.7	1350.7	1338.6	1326.6
60°	1303.8	1317.0	1330.3	1343.5	1356.7	1369.9	1383.1	1370.6	1358.1	1345.6	1333.1
62.5°	1304.5	1318.0	1331.4	1344.9	1358.3	1371.8	1385.2	1372.7	1360.2	1347.7	1335.2
65°	1302.4	1315.9	1329.3	1342.8	1356.2	1369.7	1383.1	1370.6	1358.1	1345.6	1333.1
67.5°	1294.8	1308.5	1322.2	1335.9	1349.5	1363.2	1376.9	1364.1	1351.4	1338.6	1325.9
70°	1283.0	1296.9	1310.8	1324.7	1338.6	1352.5	1366.4	1353.7	1340.9	1328.2	1315.4
72.5°	1264.2	1278.1	1292.1	1306.0	1319.9	1333.8	1347.7	1335.2	1322.7	1310.1	1297.6
75°	1242.6	1256.3	1270.0	1283.7	1297.3	1311.0	1324.7	1312.0	1299.2	1286.5	1273.7
77.5°	1210.6	1224.1	1237.5	1251.0	1264.4	1277.9	1291.3	1279.0	1266.7	1254.5	1242.2
80°	1178.0	1191.7	1205.4	1219.1	1232.7	1246.4	1260.1	1247.6	1235.1	1222.5	1210.0
82.5°	1142.5	1155.5	1168.5	1181.5	1194.4	1207.4	1220.4	1208.3	1196.3	1184.2	1172.2
85°	1105.0	1118.0	1130.9	1143.9	1156.9	1169.9	1182.9	1170.8	1158.8	1146.7	1134.7
87.5°	1064.6	1077.4	1090.1	1102.9	1115.6	1128.4	1141.1	1129.1	1117.0	1105.0	1092.9
90°	1029.9	1042.2	1054.4	1066.7	1079.0	1091.3	1103.6	1092.2	1080.9	1069.5	1058.2
92.5°	1001.4	1013.2	1025.0	1036.8	1048.7	1060.5	1072.3	1061.2	1050.1	1038.9	1027.8
95°	976.4	988.2	1000.0	1011.8	1023.7	1035.5	1047.3	1036.4	1025.5	1014.6	1003.7
97.5°	949.9	961.3	972.6	984.0	995.4	1006.7	1018.1	1007.7	997.2	986.8	976.4
100°	927.7	938.6	949.4	960.3	971.2	982.1	993.0	982.3	971.7	961.0	950.4
102.5°	901.9	912.6	923.2	933.9	944.6	955.2	965.9	955.9	946.0	936.0	926.0
105°	876.9	887.6	898.2	908.9	919.6	930.2	940.9	930.9	921.0	911.0	901.0
107.5°	847.7	858.4	869.0	879.7	890.4	901.0	911.7	901.5	891.3	881.1	870.9
110°	817.1	827.3	837.5	847.7	857.9	868.1	878.3	868.8	859.3	849.8	840.3



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	787.2	797.2	807.1	817.1	827.1	837.0	847.0	837.0	827.1	817.1	807.1
115°	752.4	761.9	771.4	780.9	790.4	799.9	809.4	800.1	790.9	781.6	772.3
117.5°	719.0	728.5	738.1	747.6	757.1	766.6	776.1	767.3	758.5	749.7	740.9
120°	684.2	693.3	702.3	711.4	720.4	729.5	738.5	729.7	720.9	712.1	703.3
122.5°	646.7	655.8	664.8	673.9	682.9	692.0	701.0	692.7	684.3	676.0	667.6
125°	607.7	616.3	624.9	633.5	642.0	650.6	659.2	651.6	643.9	636.3	628.6
127.5°	568.8	576.9	585.1	593.2	601.3	609.4	617.5	610.1	602.7	595.3	587.9
130°	525.7	534.1	542.4	550.8	559.1	567.5	575.8	568.1	560.5	552.8	545.2
132.5°	479.8	488.2	496.5	504.9	513.2	521.6	529.9	522.7	515.5	508.3	501.1
135°	436.0	443.7	451.3	459.0	466.6	474.3	481.9	475.6	469.4	463.1	456.9
137.5°	392.2	399.1	406.1	413.0	420.0	426.9	433.9	428.1	422.3	416.5	410.7
140°	343.5	350.9	358.4	365.8	373.2	380.6	388.0	382.7	377.3	372.0	366.7
142.5°	294.8	302.7	310.6	318.5	326.3	334.2	342.1	337.5	332.8	328.2	323.6
145°	251.7	259.8	268.0	276.1	284.2	292.3	300.4	296.2	292.1	287.9	283.7
147.5°	210.0	218.1	226.3	234.4	242.5	250.6	258.7	255.0	251.3	247.6	243.9
150°	171.7	179.6	187.5	195.4	203.2	211.1	219.0	215.8	212.5	209.3	206.0
152.5°	134.9	142.3	149.8	157.2	164.6	172.0	179.4	176.4	173.4	170.4	167.4
155°	99.5	106.2	112.9	119.6	126.4	133.1	139.8	137.5	135.2	132.8	130.5
157.5°	69.6	75.4	81.1	86.9	92.7	98.5	104.3	102.2	100.1	98.0	95.9
160°	40.3	44.7	49.2	53.6	58.0	62.4	66.8	65.4	64.0	62.6	61.2
162.5°	17.4	20.4	23.4	26.4	29.5	32.5	35.5	34.6	33.6	32.7	31.8
165°	4.2	5.6	6.9	8.3	9.7	11.1	12.5	11.8	11.1	10.4	9.7
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: P201404

CATALOG NUMBER: 8LBLED-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°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1003.7	1004.1	1004.6	1005.0	1005.5	1007.1	1008.7	1010.4	1012.0	1013.6	1015.2
5°	990.0	990.2	990.4	990.7	990.9	992.8	994.6	996.5	998.3	1000.2	1002.0
7.5°	978.4	978.4	978.4	978.4	978.4	980.0	981.6	983.3	984.9	986.5	988.1
10°	967.8	967.3	966.8	966.4	965.9	967.3	968.7	970.1	971.5	972.8	974.2
12.5°	967.5	966.6	965.7	964.7	963.8	964.3	964.7	965.2	965.7	966.1	966.6
15°	978.7	977.1	975.4	973.8	972.2	970.6	969.0	967.3	965.7	964.1	962.5
17.5°	1002.1	999.3	996.5	993.7	990.9	986.7	982.6	978.4	974.2	970.1	965.9
20°	1025.7	1022.2	1018.8	1015.3	1011.8	1005.1	998.4	991.6	984.9	978.2	971.5
22.5°	1049.4	1045.2	1041.0	1036.9	1032.7	1024.4	1016.0	1007.7	999.3	991.0	982.6
25°	1074.1	1069.5	1064.9	1060.2	1055.6	1045.6	1035.7	1025.7	1015.7	1005.8	995.8
27.5°	1098.1	1093.2	1088.3	1083.5	1078.6	1067.2	1055.9	1044.5	1033.1	1021.8	1010.4
30°	1119.6	1114.0	1108.4	1102.9	1097.3	1084.8	1072.3	1059.8	1047.3	1034.7	1022.2
32.5°	1141.1	1134.9	1128.6	1122.4	1116.1	1102.0	1087.8	1073.7	1059.5	1045.4	1031.2
35°	1162.7	1155.8	1148.8	1141.9	1134.9	1119.4	1103.8	1088.3	1072.8	1057.2	1041.7
37.5°	1183.3	1175.9	1168.5	1161.1	1153.7	1136.5	1119.4	1102.2	1085.1	1067.9	1050.8
40°	1204.0	1196.1	1188.2	1180.3	1172.4	1153.9	1135.3	1116.8	1098.2	1079.7	1061.1
42.5°	1222.2	1213.4	1204.6	1195.8	1187.0	1166.8	1146.7	1126.5	1106.3	1086.2	1066.0
45°	1240.8	1231.5	1222.3	1213.0	1203.7	1181.9	1160.1	1138.3	1116.5	1094.8	1073.0
47.5°	1258.2	1248.2	1238.2	1228.3	1218.3	1194.9	1171.5	1148.1	1124.7	1101.2	1077.8
50°	1275.6	1264.9	1254.2	1243.6	1232.9	1207.6	1182.4	1157.1	1131.8	1106.6	1081.3
52.5°	1290.9	1279.5	1268.1	1256.8	1245.4	1218.5	1191.6	1164.8	1137.9	1111.0	1084.1
55°	1303.2	1291.4	1279.5	1267.7	1255.9	1227.2	1198.4	1169.7	1140.9	1112.2	1083.4
57.5°	1314.5	1302.5	1290.4	1278.4	1266.3	1235.9	1205.6	1175.2	1144.8	1114.5	1084.1
60°	1320.5	1308.0	1295.5	1283.0	1270.5	1238.7	1207.0	1175.2	1143.5	1111.7	1080.0
62.5°	1322.6	1310.1	1297.6	1285.1	1272.6	1239.7	1206.8	1173.8	1140.9	1108.0	1075.1
65°	1320.5	1308.0	1295.5	1283.0	1270.5	1236.4	1202.3	1168.3	1134.2	1100.1	1066.0
67.5°	1313.1	1300.4	1287.6	1274.9	1262.1	1227.6	1193.0	1158.5	1124.0	1089.4	1054.9
70°	1302.7	1289.9	1277.2	1264.4	1251.7	1216.5	1181.2	1146.0	1110.8	1075.5	1040.3
72.5°	1285.1	1272.6	1260.0	1247.5	1235.0	1199.5	1164.1	1128.6	1093.1	1057.7	1022.2
75°	1261.0	1248.2	1235.5	1222.7	1210.0	1174.5	1139.1	1103.6	1068.1	1032.7	997.2
77.5°	1229.9	1217.6	1205.4	1193.1	1180.8	1145.6	1110.3	1075.1	1039.9	1004.6	969.4
80°	1197.5	1185.0	1172.4	1159.9	1147.4	1112.6	1077.9	1043.1	1008.3	973.6	938.8
82.5°	1160.1	1148.1	1136.0	1124.0	1111.9	1077.6	1043.3	1009.0	974.7	940.4	906.1
85°	1122.6	1110.6	1098.5	1086.5	1074.4	1040.8	1007.2	973.6	940.0	906.3	872.7
87.5°	1080.9	1068.8	1056.8	1044.7	1032.7	1000.0	967.3	934.6	901.9	869.3	836.6
90°	1046.8	1035.5	1024.1	1012.8	1001.4	969.2	937.0	904.7	872.5	840.3	808.1
92.5°	1016.7	1005.6	994.4	983.3	972.2	941.1	910.1	879.0	847.9	816.9	785.8
95°	992.8	981.9	971.0	960.1	949.2	918.8	888.5	858.1	827.7	797.4	767.0
97.5°	965.9	955.5	945.1	934.6	924.2	894.5	864.8	835.2	805.5	775.8	746.1
100°	939.7	929.1	918.4	907.8	897.1	868.1	839.1	810.2	781.2	752.2	723.2
102.5°	916.1	906.1	896.1	886.2	876.2	847.2	818.2	789.3	760.3	731.3	702.3
105°	891.1	881.1	871.1	861.2	851.2	822.7	794.2	765.7	737.2	708.6	680.1
107.5°	860.7	850.5	840.3	830.1	819.9	792.5	765.2	737.8	710.5	683.1	655.8
110°	830.7	821.2	811.7	802.2	792.7	765.8	738.9	712.1	685.2	658.3	631.4



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	797.2	787.2	777.2	767.3	757.3	731.8	706.3	680.8	655.3	629.8	604.3
115°	763.1	753.8	744.5	735.3	726.0	700.7	675.5	650.2	624.9	599.7	574.4
117.5°	732.0	723.2	714.4	705.6	696.8	672.0	647.2	622.4	597.6	572.8	548.0
120°	694.4	685.6	676.8	668.0	659.2	635.6	611.9	588.3	564.6	541.0	517.3
122.5°	659.3	650.9	642.6	634.2	625.9	602.9	580.0	557.0	534.1	511.1	488.2
125°	621.0	613.3	605.7	598.0	590.4	568.1	545.9	523.6	501.4	479.1	456.9
127.5°	580.4	573.0	565.6	558.2	550.8	529.5	508.1	486.8	465.5	444.1	422.8
130°	537.5	529.9	522.2	514.6	506.9	487.0	467.0	447.1	427.2	407.2	387.3
132.5°	494.0	486.8	479.6	472.4	465.2	446.2	427.2	408.2	389.2	370.2	351.2
135°	450.6	444.4	438.1	431.9	425.6	407.7	389.9	372.0	354.2	336.3	318.5
137.5°	405.0	399.2	393.4	387.6	381.8	365.6	349.3	333.1	316.9	300.6	284.4
140°	361.3	356.0	350.7	345.3	340.0	325.2	310.3	295.5	280.7	265.8	251.0
142.5°	318.9	314.3	309.7	305.0	300.4	287.2	274.0	260.8	247.6	234.3	221.1
145°	279.6	275.4	271.2	267.1	262.9	250.4	237.9	225.3	212.8	200.3	187.8
147.5°	240.1	236.4	232.7	229.0	225.3	214.4	203.5	192.6	181.7	170.9	160.0
150°	202.8	199.5	196.3	193.0	189.8	180.1	170.3	160.6	150.9	141.1	131.4
152.5°	164.3	161.3	158.3	155.3	152.3	143.7	135.1	126.6	118.0	109.4	100.8
155°	128.2	125.9	123.5	121.2	118.9	111.3	103.6	96.0	88.3	80.7	73.0
157.5°	93.9	91.8	89.7	87.6	85.5	79.5	73.5	67.4	61.4	55.4	49.4
160°	59.8	58.4	57.0	55.6	54.2	49.8	45.4	41.0	36.6	32.2	27.8
162.5°	30.8	29.9	29.0	28.0	27.1	24.3	21.5	18.8	16.0	13.2	10.4
165°	9.1	8.4	7.7	7.0	6.3	5.6	4.9	4.2	3.5	2.8	2.1
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: P201404

CATALOG NUMBER: 8LBLED-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1016.9	1018.5	1020.1	1020.6	1021.0	1021.5	1022.0	1022.4	1022.9	1023.4	1023.8
5°	1003.9	1005.7	1007.6	1008.1	1008.5	1009.0	1009.5	1009.9	1010.4	1010.9	1011.3
7.5°	989.8	991.4	993.0	993.9	994.9	995.8	996.7	997.7	998.6	999.5	1000.5
10°	975.6	977.0	978.4	979.1	979.8	980.5	981.2	981.9	982.6	983.3	984.0
12.5°	967.1	967.5	968.0	967.8	967.5	967.3	967.1	966.8	966.6	966.4	966.1
15°	960.8	959.2	957.6	956.4	955.3	954.1	952.9	951.8	950.6	949.4	948.3
17.5°	961.7	957.6	953.4	950.6	947.8	945.0	942.2	939.5	936.7	933.9	931.1
20°	964.7	958.0	951.3	946.2	941.1	936.0	930.9	925.8	920.7	915.6	910.5
22.5°	974.3	965.9	957.6	949.3	940.9	932.6	924.2	915.9	907.5	899.2	890.8
25°	985.8	975.9	965.9	954.1	942.3	930.4	918.6	906.8	895.0	883.1	871.3
27.5°	999.0	987.7	976.3	960.8	945.3	929.7	914.2	898.7	883.2	867.6	852.1
30°	1009.7	997.2	984.7	965.9	947.1	928.4	909.6	890.8	872.0	853.3	834.5
32.5°	1017.1	1002.9	988.8	967.2	945.7	924.1	902.6	881.0	859.5	837.9	816.4
35°	1026.2	1010.6	995.1	971.0	946.9	922.8	898.7	874.5	850.4	826.3	802.2
37.5°	1033.6	1016.5	999.3	973.3	947.4	921.4	895.4	869.5	843.5	817.5	791.6
40°	1042.6	1024.0	1005.5	977.2	948.9	920.7	892.4	864.1	835.8	807.6	779.3
42.5°	1045.8	1025.7	1005.5	975.8	946.2	916.5	886.8	857.2	827.5	797.8	768.2
45°	1051.2	1029.4	1007.6	975.8	944.1	912.3	880.6	848.8	817.1	785.3	753.6
47.5°	1054.4	1031.0	1007.6	974.2	940.8	907.5	874.1	840.7	807.3	774.0	740.6
50°	1056.0	1030.8	1005.5	970.3	935.0	899.8	864.6	829.3	794.1	758.9	723.6
52.5°	1057.3	1030.4	1003.5	966.6	929.8	892.9	856.0	819.2	782.3	745.4	708.6
55°	1054.7	1025.9	997.2	959.0	920.7	882.5	844.2	806.0	767.7	729.5	691.2
57.5°	1053.7	1023.4	993.0	953.1	913.3	873.4	833.5	793.7	753.8	713.9	674.1
60°	1048.2	1016.5	984.7	943.4	902.2	860.9	819.6	778.4	737.1	695.8	654.6
62.5°	1042.1	1009.2	976.3	933.7	891.0	848.4	805.7	763.1	720.4	677.8	635.1
65°	1032.0	997.9	963.8	920.0	876.2	832.4	788.6	744.7	700.9	657.1	613.3
67.5°	1020.4	985.8	951.3	906.3	861.4	816.4	771.4	726.5	681.5	636.5	591.6
70°	1005.1	969.8	934.6	888.2	841.9	795.5	749.2	702.8	656.5	610.1	563.8
72.5°	986.7	951.3	915.8	868.7	821.7	774.6	727.6	680.5	633.5	586.4	539.4
75°	961.7	926.3	890.8	843.7	796.7	749.6	702.6	655.5	608.5	561.4	514.4
77.5°	934.2	898.9	863.7	816.6	769.6	722.5	675.5	628.4	581.4	534.3	487.3
80°	904.0	869.3	834.5	787.7	740.9	694.0	647.2	600.4	553.6	506.7	459.9
82.5°	871.8	837.5	803.2	757.3	711.4	665.5	619.6	573.7	527.8	481.9	436.0
85°	839.1	805.5	771.9	726.7	681.5	636.3	591.1	545.9	500.7	455.5	410.3
87.5°	803.9	771.2	738.5	694.5	650.4	606.4	562.3	518.3	474.2	430.2	386.1
90°	775.8	743.6	711.4	668.1	624.7	581.4	538.0	494.7	451.3	408.0	364.6
92.5°	754.7	723.7	692.6	650.2	607.8	565.3	522.9	480.5	438.1	395.6	353.2
95°	736.6	706.3	675.9	633.9	592.0	550.0	508.1	466.1	424.2	382.2	340.3
97.5°	716.5	686.8	657.1	615.8	574.6	533.3	492.1	450.8	409.6	368.3	327.1
100°	694.3	665.3	636.3	596.0	555.6	515.3	475.0	434.6	394.3	354.0	313.6
102.5°	673.4	644.4	615.4	576.0	536.6	497.2	457.8	418.4	379.0	339.6	300.2
105°	651.6	623.1	594.6	555.9	517.2	478.5	439.8	401.0	362.3	323.6	284.9
107.5°	628.4	601.1	573.7	535.7	497.7	459.7	421.7	383.6	345.6	307.6	269.6
110°	604.6	577.7	550.8	513.7	476.6	439.5	402.4	365.4	328.3	291.2	254.1



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	578.8	553.3	527.8	491.6	455.5	419.3	383.2	347.0	310.9	274.7	238.6
115°	549.1	523.9	498.6	463.8	429.1	394.3	359.5	324.8	290.0	255.2	220.5
117.5°	523.2	498.4	473.6	439.8	405.9	372.1	338.2	304.4	270.5	236.7	202.8
120°	493.7	470.0	446.4	414.0	381.5	349.1	316.6	284.2	251.7	219.3	186.8
122.5°	465.2	442.3	419.3	388.0	356.7	325.4	294.1	262.9	231.6	200.3	169.0
125°	434.6	412.4	390.1	360.4	330.8	301.1	271.4	241.8	212.1	182.4	152.8
127.5°	401.5	380.1	358.8	331.0	303.2	275.4	247.6	219.7	191.9	164.1	136.3
130°	367.4	347.4	327.5	301.3	275.1	248.9	222.7	196.6	170.4	144.2	118.0
132.5°	332.2	313.2	294.2	270.1	246.0	221.9	197.8	173.6	149.5	125.4	101.3
135°	300.6	282.8	264.9	242.7	220.4	198.2	175.9	153.7	131.4	109.2	86.9
137.5°	268.2	251.9	235.7	215.1	194.5	173.8	153.2	132.6	112.0	91.3	70.7
140°	236.2	221.3	206.5	187.7	169.0	150.2	131.4	112.7	93.9	75.1	56.4
142.5°	207.9	194.7	181.5	164.3	147.2	130.0	112.9	95.7	78.6	61.4	44.3
145°	175.2	162.7	150.2	135.4	120.5	105.7	90.9	76.0	61.2	46.4	31.5
147.5°	149.1	138.2	127.3	114.1	100.9	87.6	74.4	61.2	48.0	34.7	21.5
150°	121.7	111.9	102.2	91.3	80.4	69.5	58.6	47.8	36.9	26.0	15.1
152.5°	92.3	83.7	75.1	67.0	58.9	50.8	42.7	34.5	26.4	18.3	10.2
155°	65.4	57.7	50.1	44.5	39.0	33.4	27.8	22.3	16.7	11.1	5.6
157.5°	43.3	37.3	31.3	27.8	24.3	20.9	17.4	13.9	10.4	7.0	3.5
160°	23.4	19.0	14.6	13.0	11.4	9.7	8.1	6.5	4.9	3.2	1.6
162.5°	7.7	4.9	2.1	1.9	1.6	1.4	1.2	0.9	0.7	0.5	0.2
165°	1.4	0.7	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: P201404

CATALOG NUMBER: 8LBLELD4-9-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1024.3	1026.9	1029.4	1032.0	1034.5	1037.1	1039.6	1042.2	1044.7	1047.3	1047.1
5°	1011.8	1015.3	1018.8	1022.2	1025.7	1029.2	1032.7	1036.1	1039.6	1043.1	1043.6
7.5°	1001.4	1005.1	1008.8	1012.5	1016.2	1019.9	1023.6	1027.3	1031.0	1034.7	1036.6
10°	984.7	989.1	993.5	997.9	1002.3	1006.7	1011.1	1015.5	1019.9	1024.3	1027.1
12.5°	965.9	970.8	975.6	980.5	985.4	990.2	995.1	1000.0	1004.8	1009.7	1013.9
15°	947.1	952.2	957.3	962.4	967.5	972.6	977.7	982.8	987.9	993.0	998.6
17.5°	928.3	933.4	938.5	943.6	948.7	953.8	958.9	964.0	969.1	974.2	981.4
20°	905.4	910.5	915.6	920.7	925.8	930.9	936.0	941.1	946.2	951.3	960.3
22.5°	882.5	887.1	891.8	896.4	901.0	905.7	910.3	914.9	919.6	924.2	935.3
25°	859.5	863.9	868.3	872.7	877.1	881.5	885.9	890.3	894.7	899.1	912.1
27.5°	836.6	840.1	843.5	847.0	850.5	853.9	857.4	860.9	864.3	867.8	883.3
30°	815.7	818.0	820.3	822.7	825.0	827.3	829.6	832.0	834.3	836.6	854.7
32.5°	794.8	795.5	796.2	796.9	797.6	798.3	799.0	799.7	800.4	801.1	822.2
35°	778.1	777.2	776.3	775.3	774.4	773.5	772.6	771.6	770.7	769.8	793.4
37.5°	765.6	761.4	757.3	753.1	748.9	744.8	740.6	736.4	732.3	728.1	755.2
40°	751.0	744.5	738.0	731.5	725.0	718.6	712.1	705.6	699.1	692.6	722.5
42.5°	738.5	729.0	719.5	710.0	700.5	691.0	681.5	672.0	662.5	653.0	685.7
45°	721.8	709.5	697.2	684.9	672.6	660.4	648.1	635.8	623.5	611.2	647.1
47.5°	707.2	692.4	677.5	662.7	647.9	633.0	618.2	603.4	588.5	573.7	611.9
50°	688.4	671.0	653.6	636.3	618.9	601.5	584.1	566.8	549.4	532.0	573.3
52.5°	671.7	651.1	630.5	609.8	589.2	568.6	548.0	527.3	506.7	486.1	530.6
55°	653.0	630.0	607.1	584.1	561.2	538.2	515.3	492.3	469.4	446.4	493.2
57.5°	634.2	608.9	583.7	558.4	533.1	507.9	482.6	457.3	432.1	406.8	455.9
60°	613.3	585.7	558.1	530.6	503.0	475.4	447.8	420.3	392.7	365.1	416.6
62.5°	592.5	562.8	533.1	503.5	473.8	444.1	414.4	384.8	355.1	325.4	379.2
65°	569.5	538.0	506.5	474.9	443.4	411.9	380.4	348.8	317.3	285.8	341.2
67.5°	546.6	513.2	479.8	446.5	413.1	379.7	346.3	313.0	279.6	246.2	303.2
70°	517.4	483.1	448.8	414.5	380.2	345.8	311.5	277.2	242.9	208.6	266.8
72.5°	492.3	456.6	420.9	385.2	349.5	313.9	278.2	242.5	206.8	171.1	230.2
75°	467.3	430.4	393.6	356.7	319.9	283.0	246.2	209.3	172.5	135.6	195.4
77.5°	440.2	402.6	365.1	327.5	290.0	252.4	214.9	177.3	139.8	102.2	162.0
80°	413.1	375.1	337.1	299.0	261.0	223.0	185.0	146.9	108.9	70.9	130.5
82.5°	390.1	351.9	313.6	275.4	237.1	198.9	160.6	122.4	84.1	45.9	104.3
85°	365.1	327.1	289.1	251.0	213.0	175.0	137.0	98.9	60.9	22.9	80.2
87.5°	342.1	305.0	267.9	230.8	193.7	156.7	119.6	82.5	45.4	8.3	63.2
90°	321.3	285.6	249.9	214.2	178.5	142.8	107.1	71.4	35.7	0.0	53.1
92.5°	310.8	276.3	241.7	207.2	172.7	138.1	103.6	69.1	34.5	0.0	50.8
95°	298.3	265.2	232.0	198.9	165.7	132.6	99.4	66.3	33.1	0.0	48.2
97.5°	285.8	254.0	222.3	190.5	158.8	127.0	95.3	63.5	31.8	0.0	45.7
100°	273.3	242.9	212.6	182.2	151.8	121.5	91.1	60.7	30.4	0.0	42.9
102.5°	260.8	231.8	202.8	173.9	144.9	115.9	86.9	58.0	29.0	0.0	40.3
105°	246.2	218.8	191.5	164.1	136.8	109.4	82.1	54.7	27.4	0.0	37.8
107.5°	231.6	205.9	180.1	154.4	128.7	102.9	77.2	51.5	25.7	0.0	35.2
110°	217.0	192.9	168.8	144.7	120.6	96.4	72.3	48.2	24.1	0.0	32.5



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	202.4	180.1	157.9	135.6	113.4	91.1	68.9	46.6	24.4	2.1	32.0
115°	185.7	165.1	144.4	123.8	103.2	82.5	61.9	41.3	20.6	0.0	27.4
117.5°	169.0	150.5	131.9	113.4	94.8	76.3	57.7	39.2	20.6	2.1	26.7
120°	154.4	137.5	120.6	103.6	86.7	69.8	52.9	35.9	19.0	2.1	23.9
122.5°	137.7	122.6	107.6	92.5	77.4	62.4	47.3	32.2	17.2	2.1	21.1
125°	123.1	109.7	96.2	82.8	69.3	55.9	42.4	29.0	15.5	2.1	18.6
127.5°	108.5	96.7	84.9	73.0	61.2	49.4	37.6	25.7	13.9	2.1	15.8
130°	91.8	81.8	71.9	61.9	51.9	42.0	32.0	22.0	12.1	2.1	12.8
132.5°	77.2	68.9	60.5	52.2	43.8	35.5	27.1	18.8	10.4	2.1	10.4
135°	64.7	57.7	50.8	43.8	36.9	29.9	23.0	16.0	9.1	2.1	8.6
137.5°	50.1	44.8	39.4	34.1	28.8	23.4	18.1	12.8	7.4	2.1	7.0
140°	37.6	33.7	29.7	25.8	21.8	17.9	13.9	10.0	6.0	2.1	5.6
142.5°	27.1	24.3	21.5	18.8	16.0	13.2	10.4	7.7	4.9	2.1	4.4
145°	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7	2.1	3.7
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°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	3.3
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.0
155°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.6
157.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.3
160°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.3
162.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.1
165°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.1
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: P201404

CATALOG NUMBER: 8LBLED-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1046.8	1046.6	1046.4	1046.1	1045.9	1045.7	1045.4	1045.2	1045.7	1046.1	1046.6
5°	1044.0	1044.5	1045.0	1045.4	1045.9	1046.4	1046.8	1047.3	1049.1	1051.0	1052.8
7.5°	1038.4	1040.3	1042.1	1044.0	1045.8	1047.7	1049.5	1051.4	1054.4	1057.4	1060.5
10°	1029.9	1032.6	1035.4	1038.2	1041.0	1043.7	1046.5	1049.3	1053.9	1058.6	1063.2
12.5°	1018.1	1022.2	1026.4	1030.6	1034.8	1038.9	1043.1	1047.3	1054.0	1060.7	1067.5
15°	1004.1	1009.7	1015.3	1020.8	1026.4	1032.0	1037.5	1043.1	1052.1	1061.2	1070.2
17.5°	988.6	995.8	1003.0	1010.1	1017.3	1024.5	1031.7	1038.9	1051.2	1063.5	1075.8
20°	969.4	978.4	987.5	996.5	1005.6	1014.6	1023.7	1032.7	1048.5	1064.2	1080.0
22.5°	946.4	957.6	968.7	979.8	990.9	1002.1	1013.2	1024.3	1043.8	1063.3	1082.7
25°	925.1	938.1	951.1	964.0	977.0	990.0	1003.0	1016.0	1038.9	1061.9	1084.8
27.5°	898.9	914.4	929.9	945.5	961.0	976.5	992.1	1007.6	1034.0	1060.4	1086.9
30°	872.8	890.8	908.9	927.0	945.1	963.1	981.2	999.3	1028.7	1058.2	1087.6
32.5°	843.3	864.4	885.5	906.5	927.6	948.7	969.8	990.9	1023.1	1055.3	1087.6
35°	817.1	840.7	864.4	888.0	911.7	935.3	959.0	982.6	1017.6	1052.6	1087.6
37.5°	782.3	809.5	836.6	863.7	890.8	918.0	945.1	972.2	1010.0	1047.8	1085.5
40°	752.4	782.3	812.2	842.1	872.0	901.9	931.8	961.7	1002.5	1043.3	1084.1
42.5°	718.4	751.0	783.7	816.4	849.1	881.7	914.4	947.1	991.1	1035.2	1079.2
45°	683.1	719.0	754.9	790.9	826.8	862.7	898.7	934.6	981.7	1028.7	1075.8
47.5°	650.2	688.4	726.7	764.9	803.2	841.4	879.7	917.9	968.0	1018.0	1068.1
50°	614.5	655.8	697.0	738.3	779.5	820.8	862.0	903.3	956.2	1009.0	1061.9
52.5°	575.1	619.6	664.1	708.6	753.1	797.6	842.1	886.6	942.5	998.3	1054.2
55°	540.0	586.9	633.7	680.5	727.3	774.2	821.0	867.8	926.7	985.6	1044.4
57.5°	505.1	554.2	603.4	652.5	701.7	750.8	800.0	849.1	911.2	973.3	1035.5
60°	468.0	519.5	570.9	622.4	673.8	725.3	776.7	828.2	893.8	959.4	1025.0
62.5°	433.0	486.7	540.5	594.3	648.1	701.8	755.6	809.4	878.0	946.6	1015.2
65°	396.6	452.0	507.4	562.8	618.2	673.6	729.0	784.4	856.5	928.6	1000.7
67.5°	360.2	417.3	474.3	531.3	588.3	645.4	702.4	759.4	834.5	909.6	984.7
70°	325.0	383.1	441.3	499.5	557.7	615.8	674.0	732.2	809.6	887.0	964.5
72.5°	289.3	348.4	407.5	466.6	525.7	584.8	643.9	703.0	781.8	860.6	939.4
75°	255.2	315.0	374.8	434.6	494.4	554.2	614.0	673.8	752.6	831.4	910.2
77.5°	221.8	281.6	341.4	401.3	461.1	520.9	580.7	640.5	718.1	795.8	873.4
80°	190.1	249.6	309.2	368.8	428.4	487.9	547.5	607.1	682.9	758.7	834.5
82.5°	162.7	221.1	279.5	338.0	396.4	454.8	513.2	571.6	645.5	719.5	793.4
85°	137.4	194.7	251.9	309.2	366.4	423.7	480.9	538.2	609.6	681.0	752.4
87.5°	118.2	173.1	228.1	283.0	338.0	392.9	447.9	502.8	572.3	641.9	711.4
90°	106.2	159.2	212.3	265.4	318.5	371.5	424.6	477.7	544.9	612.1	679.4
92.5°	101.5	152.3	203.1	253.8	304.6	355.4	406.1	456.9	522.3	587.6	653.0
95°	96.4	144.6	192.8	241.1	289.3	337.5	385.7	433.9	497.0	560.0	623.1
97.5°	91.3	137.0	182.7	228.3	274.0	319.7	365.3	411.0	472.7	534.3	596.0
100°	85.8	128.6	171.5	214.4	257.3	300.1	343.0	385.9	446.2	506.4	566.7
102.5°	80.7	121.0	161.3	201.7	242.0	282.3	322.7	363.0	421.6	480.3	538.9
105°	75.6	113.3	151.1	188.9	226.7	264.4	302.2	340.0	397.0	454.0	511.1
107.5°	70.5	105.7	140.9	176.2	211.4	246.6	281.9	317.1	372.5	427.9	483.3
110°	64.9	97.4	129.8	162.3	194.7	227.2	259.6	292.1	346.1	400.1	454.1



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	61.9	91.8	121.7	151.6	181.5	211.4	241.3	271.2	322.7	374.1	425.6
115°	54.7	82.1	109.4	136.8	164.1	191.5	218.8	246.2	296.3	346.3	396.4
117.5°	51.2	75.8	100.4	124.9	149.5	174.1	198.6	223.2	271.2	319.2	367.2
120°	45.7	67.5	89.3	111.0	132.8	154.6	176.4	198.2	244.6	290.9	337.3
122.5°	40.1	59.1	78.1	97.2	116.2	135.2	154.2	173.2	217.0	260.8	304.6
125°	35.0	51.5	67.9	84.4	100.8	117.3	133.7	150.2	191.9	233.6	275.4
127.5°	29.5	43.1	56.8	70.5	84.2	97.8	111.5	125.2	163.9	202.6	241.3
130°	23.4	34.1	44.8	55.4	66.1	76.8	87.4	98.1	133.1	168.1	203.1
132.5°	18.8	27.1	35.5	43.8	52.2	60.5	68.9	77.2	108.5	139.8	171.1
135°	15.1	21.6	28.1	34.5	41.0	47.5	54.0	60.5	88.5	116.6	144.6
137.5°	11.8	16.7	21.6	26.4	31.3	36.2	41.0	45.9	69.8	93.7	117.5
140°	9.1	12.5	16.0	19.5	23.0	26.4	29.9	33.4	53.6	73.7	93.9
142.5°	6.7	9.0	11.3	13.7	16.0	18.3	20.6	22.9	40.3	57.7	75.1
145°	5.3	7.0	8.6	10.2	11.8	13.5	15.1	16.7	30.6	44.5	58.4
147.5°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	25.0	35.5	45.9
150°	4.4	5.6	6.7	7.9	9.0	10.2	11.3	12.5	20.2	27.8	35.5
152.5°	3.9	4.9	5.8	6.7	7.6	8.6	9.5	10.4	15.5	20.6	25.7
155°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	9.8	13.3	16.7
157.5°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	6.3	8.4	10.4
160°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	5.4	6.5	7.7
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.2
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.6	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: P201404

CATALOG NUMBER: 8LBLED-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°
0°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1047.0	1047.5	1047.9	1048.4	1048.8	1049.3	1049.5	1049.8	1050.0	1050.2	1050.5
5°	1054.7	1056.5	1058.4	1060.2	1062.1	1063.9	1064.6	1065.3	1066.0	1066.7	1067.4
7.5°	1063.5	1066.5	1069.5	1072.6	1075.6	1078.6	1080.4	1082.3	1084.1	1086.0	1087.8
10°	1067.9	1072.5	1077.2	1081.8	1086.5	1091.1	1094.6	1098.1	1101.5	1105.0	1108.5
12.5°	1074.2	1080.9	1087.6	1094.4	1101.1	1107.8	1113.4	1118.9	1124.5	1130.0	1135.6
15°	1079.2	1088.3	1097.3	1106.3	1115.4	1124.4	1133.0	1141.6	1150.1	1158.7	1167.3
17.5°	1088.1	1100.3	1112.6	1124.9	1137.2	1149.5	1160.4	1171.3	1182.2	1193.1	1203.9
20°	1095.7	1111.5	1127.2	1143.0	1158.7	1174.5	1187.3	1200.0	1212.8	1225.5	1238.3
22.5°	1102.2	1121.7	1141.2	1160.6	1180.1	1199.6	1214.2	1228.8	1243.4	1258.0	1272.6
25°	1107.8	1130.7	1153.7	1176.6	1199.6	1222.5	1239.0	1255.4	1271.9	1288.3	1304.8
27.5°	1113.3	1139.7	1166.1	1192.6	1219.0	1245.4	1263.7	1282.0	1300.4	1318.7	1337.0
30°	1117.0	1146.5	1175.9	1205.3	1234.8	1264.2	1284.6	1305.0	1325.4	1345.8	1366.2
32.5°	1119.8	1152.0	1184.2	1216.5	1248.7	1280.9	1303.6	1326.3	1349.1	1371.8	1394.5
35°	1122.6	1157.6	1192.6	1227.6	1262.6	1297.6	1322.6	1347.7	1372.7	1397.7	1422.8
37.5°	1123.3	1161.1	1198.9	1236.6	1274.4	1312.2	1339.8	1367.4	1395.0	1422.6	1450.1
40°	1124.9	1165.7	1206.5	1247.3	1288.1	1328.9	1358.8	1388.7	1418.6	1448.5	1478.4
42.5°	1123.3	1167.3	1211.4	1255.4	1299.5	1343.5	1376.2	1408.9	1441.5	1474.2	1506.9
45°	1122.8	1169.9	1216.9	1264.0	1311.0	1358.1	1393.8	1429.5	1465.2	1500.9	1536.6
47.5°	1118.2	1168.2	1218.3	1268.4	1318.4	1368.5	1407.7	1446.9	1486.0	1525.2	1564.4
50°	1114.7	1167.6	1220.4	1273.3	1326.1	1379.0	1421.9	1464.8	1507.6	1550.5	1593.4
52.5°	1110.1	1165.9	1221.8	1277.7	1333.5	1389.4	1436.0	1482.6	1529.2	1575.8	1622.3
55°	1103.3	1162.2	1221.1	1279.9	1338.8	1397.7	1448.2	1498.8	1549.3	1599.8	1650.4
57.5°	1097.6	1159.7	1221.8	1284.0	1346.1	1408.2	1462.0	1515.8	1569.5	1623.3	1677.1
60°	1090.6	1156.2	1221.8	1287.4	1353.0	1418.6	1475.9	1533.1	1590.4	1647.6	1704.9
62.5°	1083.8	1152.5	1221.1	1289.7	1358.3	1426.9	1486.5	1546.1	1605.6	1665.2	1724.8
65°	1072.8	1144.8	1216.9	1289.0	1361.1	1433.2	1495.1	1557.0	1618.9	1680.8	1742.6
67.5°	1059.8	1134.9	1210.0	1285.1	1360.2	1435.3	1498.6	1561.9	1625.1	1688.4	1751.7
70°	1041.9	1119.3	1196.7	1274.2	1351.6	1429.0	1493.2	1557.4	1621.6	1685.8	1750.1
72.5°	1018.2	1097.1	1175.9	1254.7	1333.5	1412.3	1476.5	1540.7	1604.9	1669.1	1733.4
75°	989.0	1067.9	1146.7	1225.5	1304.3	1383.1	1446.6	1510.1	1573.6	1637.1	1700.7
77.5°	951.1	1028.7	1106.4	1184.0	1261.7	1339.3	1401.7	1464.0	1526.4	1588.7	1651.1
80°	910.3	986.1	1061.9	1137.7	1213.5	1289.3	1349.8	1410.3	1470.8	1531.3	1591.7
82.5°	867.4	941.3	1015.3	1089.2	1163.2	1237.1	1295.0	1353.0	1410.9	1468.9	1526.8
85°	823.8	895.2	966.6	1038.0	1109.4	1180.8	1236.2	1291.6	1347.0	1402.4	1457.8
87.5°	780.9	850.5	920.0	989.5	1059.1	1128.6	1182.1	1235.7	1289.2	1342.8	1396.3
90°	746.6	813.8	881.0	948.3	1015.5	1082.7	1133.9	1185.2	1236.4	1287.6	1338.9
92.5°	718.4	783.7	849.1	914.5	979.8	1045.2	1093.9	1142.6	1191.2	1239.9	1288.6
95°	686.1	749.2	812.2	875.3	938.3	1001.4	1049.1	1096.9	1144.6	1192.4	1240.1
97.5°	657.6	719.3	780.9	842.6	904.2	965.9	1011.6	1057.2	1102.9	1148.6	1194.2
100°	627.0	687.2	747.5	807.8	868.0	928.3	972.8	1017.3	1061.8	1106.3	1150.9
102.5°	597.6	656.2	714.9	773.5	832.2	890.8	934.1	977.5	1020.8	1064.2	1107.5
105°	568.1	625.1	682.1	739.2	796.2	853.2	895.6	938.0	980.5	1022.9	1065.3
107.5°	538.7	594.1	649.5	704.9	760.3	815.7	857.0	898.2	939.5	980.7	1022.0
110°	508.1	562.1	616.1	670.1	724.1	778.1	817.7	857.4	897.0	936.7	976.3



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	477.0	528.5	579.9	631.4	682.8	734.3	773.2	812.2	851.1	890.1	929.0
115°	446.5	496.5	546.6	596.7	646.7	696.8	733.9	771.0	808.1	845.2	882.2
117.5°	415.2	463.1	511.1	559.1	607.1	655.1	690.8	726.5	762.2	797.9	833.5
120°	383.6	430.0	476.3	522.7	569.0	615.4	649.5	683.6	717.6	751.7	785.8
122.5°	348.4	392.2	436.0	479.8	523.6	567.4	600.6	633.7	666.9	700.0	733.2
125°	317.1	358.8	400.5	442.3	484.0	525.7	557.0	588.3	619.6	650.9	682.2
127.5°	280.0	318.8	357.5	396.2	434.9	473.6	504.2	534.8	565.4	596.0	626.5
130°	238.1	273.1	308.1	343.1	378.1	413.1	443.7	474.3	504.9	535.5	566.0
132.5°	202.4	233.6	264.9	296.2	327.5	358.8	388.5	418.2	447.8	477.5	507.2
135°	172.7	200.7	228.8	256.8	284.9	312.9	341.4	369.9	398.4	426.9	455.5
137.5°	141.4	165.3	189.2	213.0	236.9	260.8	287.7	314.6	341.5	368.4	395.2
140°	114.1	134.2	154.4	174.6	194.7	214.9	239.5	264.0	288.6	313.2	337.7
142.5°	92.5	109.8	127.2	144.6	162.0	179.4	200.5	221.6	242.7	263.8	284.9
145°	72.3	86.3	100.2	114.1	128.0	141.9	160.0	178.1	196.1	214.2	232.3
147.5°	56.3	66.8	77.2	87.6	98.1	108.5	123.8	139.1	154.4	169.7	185.0
150°	43.1	50.8	58.4	66.1	73.7	81.4	93.9	106.4	118.9	131.4	144.0
152.5°	30.8	35.9	41.0	46.1	51.2	56.3	66.0	75.8	85.5	95.2	105.0
155°	20.2	23.7	27.2	30.6	34.1	37.6	44.8	52.0	59.1	66.3	73.5
157.5°	12.5	14.6	16.7	18.7	20.8	22.9	28.0	33.1	38.2	43.3	48.4
160°	8.8	10.0	11.1	12.3	13.4	14.6	17.6	20.6	23.6	26.6	29.7
162.5°	4.9	5.5	6.2	6.9	7.6	8.3	9.5	10.6	11.8	13.0	14.1
165°	3.0	3.3	3.5	3.7	4.0	4.2	4.7	5.1	5.6	6.0	6.5
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: P201404

CATALOG NUMBER: 8LBLELD4-9-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°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1050.7	1050.9	1051.2	1051.4	1050.5	1049.6	1048.6	1047.7	1046.8	1045.9	1044.9
5°	1068.1	1068.8	1069.5	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
7.5°	1089.7	1091.5	1093.4	1095.2	1095.7	1096.1	1096.6	1097.1	1097.5	1098.0	1098.5
10°	1112.0	1115.4	1118.9	1122.4	1123.1	1123.8	1124.5	1125.2	1125.8	1126.5	1127.2
12.5°	1141.1	1146.7	1152.2	1157.8	1159.4	1161.0	1162.7	1164.3	1165.9	1167.5	1169.2
15°	1175.9	1184.4	1193.0	1201.6	1204.6	1207.6	1210.7	1213.7	1216.7	1219.7	1222.8
17.5°	1214.8	1225.7	1236.6	1247.5	1250.5	1253.5	1256.6	1259.6	1262.6	1265.6	1268.7
20°	1251.0	1263.8	1276.5	1289.3	1293.0	1296.7	1300.4	1304.1	1307.8	1311.5	1315.2
22.5°	1287.2	1301.8	1316.4	1331.0	1335.4	1339.8	1344.2	1348.6	1353.0	1357.4	1361.8
25°	1321.2	1337.7	1354.1	1370.6	1375.5	1380.3	1385.2	1390.1	1394.9	1399.8	1404.7
27.5°	1355.3	1373.7	1392.0	1410.3	1416.1	1421.9	1427.7	1433.5	1439.2	1445.0	1450.8
30°	1386.6	1407.0	1427.4	1447.8	1454.8	1461.7	1468.7	1475.6	1482.6	1489.5	1496.5
32.5°	1417.2	1440.0	1462.7	1485.4	1493.5	1501.6	1509.7	1517.8	1526.0	1534.1	1542.2
35°	1447.8	1472.8	1497.9	1522.9	1532.2	1541.5	1550.7	1560.0	1569.3	1578.6	1587.8
37.5°	1477.7	1505.3	1532.9	1560.5	1570.9	1581.3	1591.8	1602.2	1612.6	1623.0	1633.5
40°	1508.3	1538.2	1568.1	1598.0	1609.8	1621.6	1633.5	1645.3	1657.1	1668.9	1680.8
42.5°	1539.6	1572.2	1604.9	1637.6	1650.8	1664.0	1677.3	1690.5	1703.7	1716.9	1730.2
45°	1572.3	1608.0	1643.7	1679.4	1694.0	1708.6	1723.2	1737.8	1752.4	1767.0	1781.6
47.5°	1603.6	1642.7	1681.9	1721.1	1737.3	1753.5	1769.8	1786.0	1802.2	1818.4	1834.7
50°	1636.3	1679.1	1722.0	1764.9	1782.7	1800.6	1818.4	1836.3	1854.1	1872.0	1889.8
52.5°	1668.9	1715.5	1762.1	1808.7	1828.4	1848.1	1867.8	1887.5	1907.2	1926.9	1946.6
55°	1700.9	1751.4	1802.0	1852.5	1873.4	1894.2	1915.1	1936.0	1956.8	1977.7	1998.6
57.5°	1730.9	1784.6	1838.4	1892.2	1914.4	1936.7	1958.9	1981.2	2003.4	2025.7	2047.9
60°	1762.1	1819.4	1876.6	1933.9	1956.6	1979.3	2002.0	2024.7	2047.5	2070.2	2092.9
62.5°	1784.4	1843.9	1903.5	1963.1	1986.7	2010.4	2034.0	2057.7	2081.3	2105.0	2128.6
65°	1804.5	1866.4	1928.3	1990.2	2014.1	2038.0	2061.8	2085.7	2109.6	2133.5	2157.3
67.5°	1815.0	1878.2	1941.5	2004.8	2028.9	2053.0	2077.1	2101.2	2125.4	2149.5	2173.6
70°	1814.3	1878.5	1942.7	2006.9	2030.5	2054.2	2077.8	2101.5	2125.1	2148.8	2172.4
72.5°	1797.6	1861.8	1926.0	1990.2	2013.4	2036.6	2059.7	2082.9	2106.1	2129.3	2152.4
75°	1764.2	1827.7	1891.2	1954.7	1977.0	1999.2	2021.5	2043.7	2066.0	2088.2	2110.5
77.5°	1713.4	1775.8	1838.1	1900.5	1922.3	1944.1	1965.9	1987.7	2009.4	2031.2	2053.0
80°	1652.2	1712.7	1773.2	1833.7	1854.6	1875.4	1896.3	1917.2	1938.0	1958.9	1979.8
82.5°	1584.8	1642.7	1700.7	1758.6	1779.0	1799.4	1819.8	1840.2	1860.6	1881.0	1901.4
85°	1513.2	1568.6	1624.0	1679.4	1700.0	1720.6	1741.3	1761.9	1782.5	1803.1	1823.8
87.5°	1449.9	1503.4	1557.0	1610.5	1630.0	1649.5	1668.9	1688.4	1707.9	1727.4	1746.8
90°	1390.1	1441.3	1492.6	1543.8	1562.6	1581.4	1600.1	1618.9	1637.7	1656.5	1675.2
92.5°	1337.3	1385.9	1434.6	1483.3	1501.4	1519.5	1537.5	1555.6	1573.7	1591.8	1609.8
95°	1287.9	1335.6	1383.4	1431.1	1448.0	1464.9	1481.9	1498.8	1515.7	1532.6	1549.6
97.5°	1239.9	1285.6	1331.2	1376.9	1393.4	1409.8	1426.3	1442.7	1459.2	1475.6	1492.1
100°	1195.4	1239.9	1284.4	1328.9	1344.7	1360.4	1376.2	1392.0	1407.7	1423.5	1439.3
102.5°	1150.9	1194.2	1237.6	1280.9	1296.2	1311.5	1326.8	1342.1	1357.4	1372.7	1388.0
105°	1107.7	1150.2	1192.6	1235.0	1249.6	1264.2	1278.8	1293.4	1308.0	1322.6	1337.2
107.5°	1063.2	1104.5	1145.7	1187.0	1201.1	1215.3	1229.4	1243.6	1257.7	1271.9	1286.0
110°	1016.0	1055.6	1095.3	1134.9	1148.8	1162.7	1176.6	1190.5	1204.5	1218.4	1232.3



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-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°	968.0	1006.9	1045.9	1084.8	1098.0	1111.2	1124.4	1137.6	1150.9	1164.1	1177.3
115°	919.3	956.4	993.5	1030.6	1043.6	1056.6	1069.5	1082.5	1095.5	1108.5	1121.4
117.5°	869.2	904.9	940.6	976.3	988.8	1001.3	1013.9	1026.4	1038.9	1051.4	1064.0
120°	819.9	853.9	888.0	922.1	934.2	946.2	958.3	970.3	982.4	994.4	1006.5
122.5°	766.3	799.5	832.6	865.8	878.1	890.4	902.6	914.9	927.2	939.5	951.7
125°	713.5	744.8	776.1	807.4	818.8	830.1	841.5	852.8	864.2	875.5	886.9
127.5°	657.1	687.7	718.3	748.9	760.5	772.1	783.7	795.3	806.8	818.4	830.0
130°	596.6	627.2	657.8	688.4	699.8	711.1	722.5	733.9	745.2	756.6	768.0
132.5°	536.9	566.5	596.2	625.9	636.8	647.7	658.6	669.5	680.3	691.2	702.1
135°	484.0	512.5	541.0	569.5	579.2	589.0	598.7	608.4	618.2	627.9	637.6
137.5°	422.1	449.0	475.9	502.8	513.0	523.2	533.4	543.6	553.8	564.0	574.2
140°	362.3	386.9	411.4	436.0	446.7	457.3	468.0	478.7	489.3	500.0	510.7
142.5°	306.0	327.1	348.2	369.3	380.4	391.5	402.7	413.8	424.9	436.0	447.2
145°	250.4	268.4	286.5	304.6	316.2	327.8	339.4	351.0	362.5	374.1	385.7
147.5°	200.3	215.6	230.9	246.2	257.6	268.9	280.3	291.6	303.0	314.3	325.7
150°	156.5	169.0	181.5	194.0	204.9	215.8	226.7	237.6	248.5	259.4	270.3
152.5°	114.7	124.4	134.2	143.9	154.1	164.3	174.5	184.7	194.9	205.1	215.3
155°	80.7	87.8	95.0	102.2	111.2	120.3	129.3	138.4	147.4	156.5	165.5
157.5°	53.5	58.6	63.7	68.8	76.2	83.6	91.1	98.5	105.9	113.3	120.8
160°	32.7	35.7	38.7	41.7	47.0	52.4	57.7	63.0	68.4	73.7	79.0
162.5°	15.3	16.5	17.6	18.8	22.7	26.7	30.6	34.5	38.5	42.4	46.3
165°	6.9	7.4	7.8	8.3	10.4	12.5	14.6	16.7	18.7	20.8	22.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1032.7	1032.7
2.5°	1044.0	1043.1
5°	1070.2	1070.2
7.5°	1098.9	1099.4
10°	1127.9	1128.6
12.5°	1170.8	1172.4
15°	1225.8	1228.8
17.5°	1271.7	1274.7
20°	1318.9	1322.6
22.5°	1366.2	1370.6
25°	1409.5	1414.4
27.5°	1456.6	1462.4
30°	1503.4	1510.4
32.5°	1550.3	1558.4
35°	1597.1	1606.4
37.5°	1643.9	1654.3
40°	1692.6	1704.4
42.5°	1743.4	1756.6
45°	1796.2	1810.8
47.5°	1850.9	1867.1
50°	1907.7	1925.5
52.5°	1966.3	1986.0
55°	2019.4	2040.3
57.5°	2070.2	2092.4
60°	2115.6	2138.3
62.5°	2152.3	2175.9
65°	2181.2	2205.1
67.5°	2197.7	2221.8
70°	2196.1	2219.7
72.5°	2175.6	2198.8
75°	2132.7	2155.0
77.5°	2074.8	2096.6
80°	2000.6	2021.5
82.5°	1921.8	1942.2
85°	1844.4	1865.0
87.5°	1766.3	1785.8
90°	1694.0	1712.8
92.5°	1627.9	1646.0
95°	1566.5	1583.4
97.5°	1508.5	1525.0
100°	1455.0	1470.8
102.5°	1403.3	1418.6
105°	1351.8	1366.4
107.5°	1300.2	1314.3
110°	1246.2	1260.1



TEST NUMBER: P201404

CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1190.5	1203.7
115°	1134.4	1147.4
117.5°	1076.5	1089.0
120°	1018.5	1030.6
122.5°	964.0	976.3
125°	898.2	909.6
127.5°	841.6	853.2
130°	779.3	790.7
132.5°	713.0	723.9
135°	647.4	657.1
137.5°	584.4	594.6
140°	521.3	532.0
142.5°	458.3	469.4
145°	397.3	408.9
147.5°	337.0	348.4
150°	281.2	292.1
152.5°	225.5	235.7
155°	174.6	183.6
157.5°	128.2	135.6
160°	84.4	89.7
162.5°	50.3	54.2
165°	25.0	27.1
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)