

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: P201362

Luminaire Tested: **4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28229)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U  
Description: 4 ft. Low Bay Linear, 8000 lm, Wht Asym lens, 5K  
Light Source: (308) 5000K CCT, 80 CRI LEDS  
2UT217098A8504C, 2UT217056A8504B  
Ballast/Driver: OSRAM  
OT50W0900CC, OT30W0500CC

**Summary**

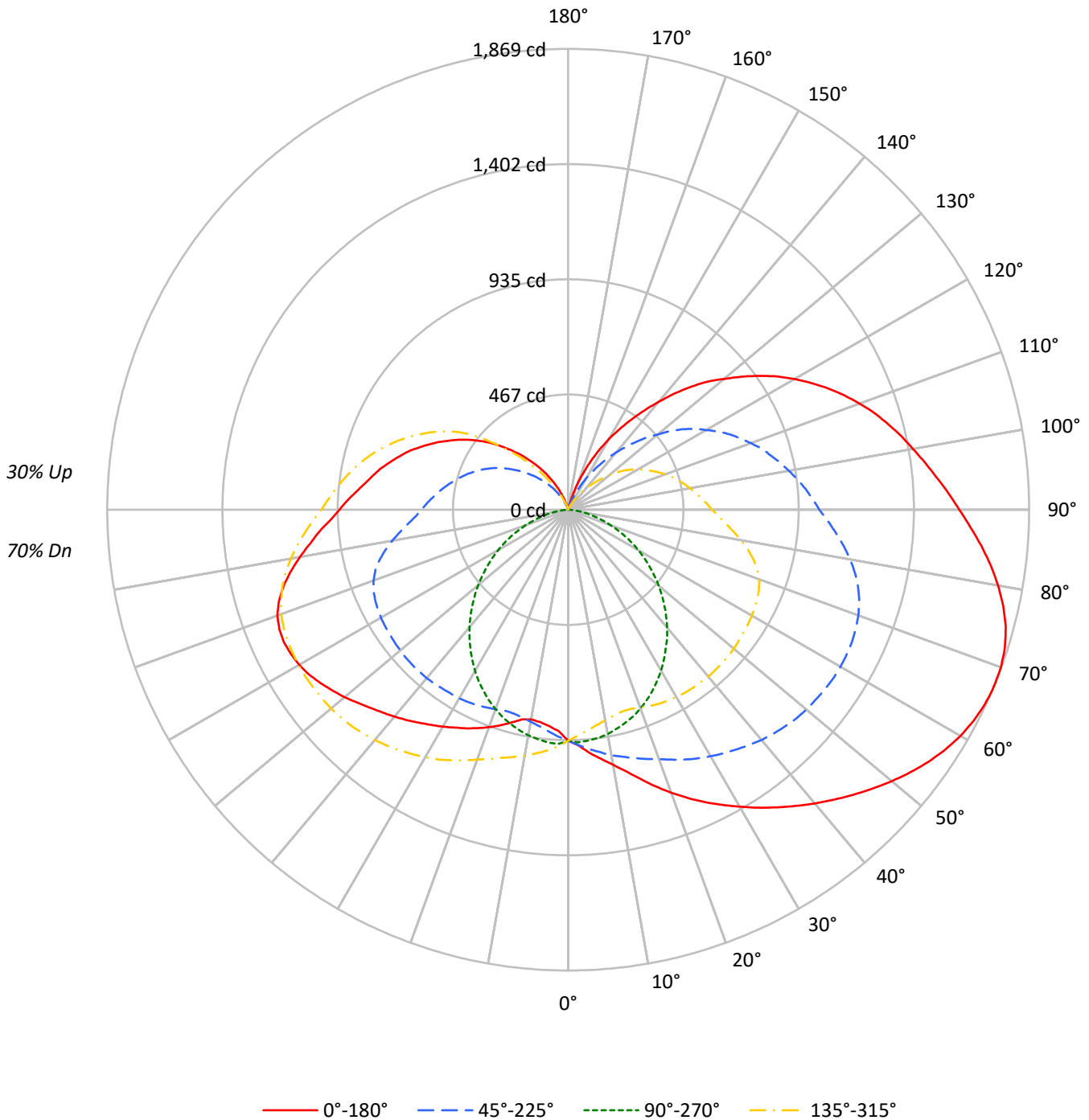
Lumens per Lamp: N/A  
Luminaire Lumens: 8527.2 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 64.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	15094	15094	15094	15094
5°	14438	15133	12856	15250
10°	14092	14985	11587	15069
15°	14129	14724	11181	14811
20°	14411	14429	11077	14482
25°	14711	14050	11004	14086
30°	15049	13604	10995	13642
35°	15486	13066	11080	13106
40°	15996	12573	11265	12551
45°	16587	11953	11527	11907
50°	17282	11302	11935	11253
55°	18022	10557	12391	10474
60°	18739	9715	12851	9682
65°	19370	8730	13206	8730
70°	19893	7523	13369	7482
75°	20246	6090	13164	6090
80°	20370	4264	12712	4407
85°	20403	1937	12290	2296



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	1.0
10°-20°	269.6	3.2
20°-30°	454.0	5.3
30°-40°	630.1	7.4
40°-50°	788.1	9.2
50°-60°	915.6	10.7
60°-70°	990.8	11.6
70°-80°	974.9	11.4
80°-90°	865.2	10.1
90°-100°	747.5	8.8
100°-110°	630.4	7.4
110°-120°	493.9	5.8
120°-130°	346.9	4.1
130°-140°	205.2	2.4
140°-150°	94.6	1.1
150°-160°	28.4	0.3
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	813.1	9.5
0°-40°	1443.2	16.9
0°-60°	3146.9	36.9
0°-90°	5977.8	70.1
90°-120°	1871.7	22.0
90°-150°	2518.4	29.5
90°-180°	2549.0	29.9
0°-180°	8527.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	937	937	937	937	937	
5°	990	940	881	947	990	96
15°	1130	895	894	900	1130	323
25°	1308	809	978	812	1308	607
35°	1474	688	1054	690	1474	928
45°	1634	552	1136	550	1634	1267
55°	1783	404	1226	400	1783	1598
65°	1865	254	1272	254	1865	1846
75°	1837	117	1194	117	1837	1935
85°	1681	17	1013	20	1681	1391
90°	1586	0	927	1	1586	870
95°	1500	0	860	1	1500	1209
105°	1342	0	747	1	1342	1420
115°	1163	0	625	1	1163	1154
125°	946	0	494	1	946	850
135°	705	0	352	1	705	547
145°	446	0	214	1	446	284
155°	216	0	91	1	216	104
165°	34	0	4	2	34	14
175°	0	0	0	2	0	0
180°	0	0	0	0	0	



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	956.5	956.2	955.8	955.5	955.1	954.8	954.4	954.1	953.7	953.4	953.6
5°	989.9	988.7	987.6	986.4	985.2	984.1	982.9	981.7	980.6	979.4	978.8
7.5°	1019.1	1017.6	1016.1	1014.6	1013.1	1011.5	1010.0	1008.5	1007.0	1005.5	1004.0
10°	1050.4	1048.3	1046.2	1044.1	1042.0	1040.0	1037.9	1035.8	1033.7	1031.6	1029.4
12.5°	1086.9	1084.1	1081.3	1078.5	1075.7	1073.0	1070.2	1067.4	1064.6	1061.8	1057.9
15°	1129.6	1126.1	1122.6	1119.2	1115.7	1112.2	1108.7	1105.3	1101.8	1098.3	1092.2
17.5°	1176.6	1172.2	1167.8	1163.4	1159.0	1154.5	1150.1	1145.7	1141.3	1136.9	1128.3
20°	1221.4	1216.1	1210.7	1205.4	1200.1	1194.7	1189.4	1184.1	1178.7	1173.4	1162.6
22.5°	1265.2	1259.1	1252.9	1246.8	1240.7	1234.5	1228.4	1222.3	1216.1	1210.0	1197.5
25°	1308.0	1301.3	1294.6	1287.8	1281.1	1274.4	1267.7	1260.9	1254.2	1247.5	1233.1
27.5°	1349.7	1342.4	1335.1	1327.8	1320.5	1313.2	1305.9	1298.6	1291.3	1284.0	1267.7
30°	1390.4	1382.4	1374.4	1366.4	1358.4	1350.4	1342.4	1334.4	1326.4	1318.4	1300.2
32.5°	1433.2	1424.3	1415.4	1406.4	1397.5	1388.6	1379.7	1370.7	1361.8	1352.9	1332.7
35°	1473.8	1464.1	1454.3	1444.6	1434.9	1425.1	1415.4	1405.7	1395.9	1386.2	1364.1
37.5°	1514.5	1504.0	1493.4	1482.9	1472.3	1461.8	1451.2	1440.7	1430.1	1419.6	1395.6
40°	1555.2	1543.8	1532.5	1521.1	1509.8	1498.4	1487.1	1475.7	1464.4	1453.0	1427.0
42.5°	1594.8	1582.6	1570.5	1558.3	1546.1	1534.0	1521.8	1509.6	1497.5	1485.3	1457.1
45°	1634.5	1621.4	1608.3	1595.2	1582.1	1569.0	1555.9	1542.8	1529.7	1516.6	1486.2
47.5°	1674.1	1660.1	1646.1	1632.0	1618.0	1604.0	1590.0	1575.9	1561.9	1547.9	1515.2
50°	1712.7	1697.8	1682.8	1667.9	1652.9	1638.0	1623.0	1608.1	1593.1	1578.2	1543.0
52.5°	1749.2	1733.3	1717.4	1701.6	1685.7	1669.8	1653.9	1638.1	1622.2	1606.3	1568.4
55°	1782.6	1765.9	1749.2	1732.5	1715.8	1699.2	1682.5	1665.8	1649.1	1632.4	1592.2
57.5°	1811.8	1794.5	1777.3	1760.0	1742.7	1725.5	1708.2	1690.9	1673.7	1656.4	1613.9
60°	1835.8	1818.2	1800.6	1782.9	1765.3	1747.7	1730.1	1712.4	1694.8	1677.2	1632.5
62.5°	1853.5	1835.5	1817.6	1799.6	1781.6	1763.7	1745.7	1727.7	1709.8	1691.8	1645.2
65°	1865.0	1846.9	1828.8	1810.8	1792.7	1774.6	1756.5	1738.5	1720.4	1702.3	1654.2
67.5°	1869.2	1851.1	1833.0	1815.0	1796.9	1778.8	1760.7	1742.7	1724.6	1706.5	1657.1
70°	1867.1	1849.0	1830.9	1812.9	1794.8	1776.7	1758.6	1740.6	1722.5	1704.4	1654.1
72.5°	1856.7	1838.5	1820.3	1802.1	1783.9	1765.7	1747.5	1729.3	1711.1	1692.9	1642.3
75°	1836.8	1818.8	1800.9	1782.9	1765.0	1747.0	1729.1	1711.1	1693.2	1675.2	1624.3
77.5°	1806.6	1789.0	1771.4	1753.7	1736.1	1718.5	1700.9	1683.2	1665.6	1648.0	1597.2
80°	1770.1	1752.7	1735.3	1717.9	1700.5	1683.2	1665.8	1648.4	1631.0	1613.6	1563.3
82.5°	1727.3	1710.1	1693.0	1675.8	1658.7	1641.5	1624.4	1607.2	1590.1	1572.9	1523.3
85°	1681.4	1664.5	1647.6	1630.6	1613.7	1596.8	1579.9	1562.9	1546.0	1529.1	1480.3
87.5°	1632.4	1615.7	1599.0	1582.3	1565.6	1549.0	1532.3	1515.6	1498.9	1482.2	1434.6
90°	1585.5	1568.8	1552.1	1535.4	1518.7	1502.1	1485.4	1468.7	1452.0	1435.3	1388.9
92.5°	1542.7	1526.6	1510.5	1494.4	1478.3	1462.1	1446.0	1429.9	1413.8	1397.7	1352.6
95°	1499.9	1484.4	1468.9	1453.3	1437.8	1422.3	1406.8	1391.2	1375.7	1360.2	1316.4
97.5°	1459.2	1444.0	1428.8	1413.7	1398.5	1383.3	1368.1	1353.0	1337.8	1322.6	1279.8
100°	1419.6	1404.7	1389.7	1374.8	1359.8	1344.9	1329.9	1315.0	1300.0	1285.1	1243.3
102.5°	1382.1	1367.4	1352.7	1337.9	1323.2	1308.5	1293.8	1279.0	1264.3	1249.6	1208.6
105°	1342.4	1327.9	1313.4	1298.9	1284.4	1270.0	1255.5	1241.0	1226.5	1212.0	1171.8
107.5°	1302.8	1288.3	1273.8	1259.3	1244.8	1230.4	1215.9	1201.4	1186.9	1172.4	1133.6
110°	1257.9	1243.6	1229.4	1215.1	1200.9	1186.6	1172.4	1158.1	1143.9	1129.6	1091.7



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1212.0	1198.6	1185.1	1171.7	1158.2	1144.8	1131.3	1117.9	1104.4	1091.0	1053.7
115°	1163.0	1149.9	1136.8	1123.7	1110.6	1097.5	1084.4	1071.3	1058.2	1045.1	1009.3
117.5°	1111.9	1099.2	1086.4	1073.7	1060.9	1048.2	1035.4	1022.7	1009.9	997.2	962.7
120°	1059.8	1047.4	1035.0	1022.6	1010.2	997.7	985.3	972.9	960.5	948.1	914.5
122.5°	1005.5	993.6	981.6	969.7	957.8	945.8	933.9	922.0	910.0	898.1	866.1
125°	946.1	935.0	923.8	912.7	901.6	890.4	879.3	868.2	857.0	845.9	815.1
127.5°	885.6	875.2	864.7	854.3	843.9	833.4	823.0	812.6	802.1	791.7	762.0
130°	825.1	815.2	805.4	795.5	785.7	775.8	766.0	756.1	746.3	736.4	707.2
132.5°	769.8	759.7	749.6	739.5	729.4	719.4	709.3	699.2	689.1	679.0	651.8
135°	705.1	695.6	686.1	676.6	667.1	657.6	648.1	638.6	629.1	619.6	593.9
137.5°	639.4	630.2	621.1	611.9	602.8	593.6	584.5	575.3	566.2	557.0	533.5
140°	571.6	563.5	555.4	547.3	539.2	531.0	522.9	514.8	506.7	498.6	476.9
142.5°	506.9	499.7	492.5	485.4	478.2	471.0	463.8	456.7	449.5	442.3	422.5
145°	446.4	440.0	433.7	427.3	420.9	414.6	408.2	401.8	395.5	389.1	370.6
147.5°	387.0	381.2	375.4	369.6	363.8	358.0	352.2	346.4	340.6	334.8	318.1
150°	329.6	324.5	319.4	314.3	309.2	304.1	299.0	293.9	288.8	283.7	268.6
152.5°	273.3	268.3	263.3	258.3	253.3	248.4	243.4	238.4	233.4	228.4	215.5
155°	215.9	211.8	207.8	203.7	199.7	195.6	191.6	187.5	183.5	179.4	168.3
157.5°	163.8	160.4	157.1	153.7	150.3	147.0	143.6	140.2	136.9	133.5	124.1
160°	114.7	111.9	109.1	106.4	103.6	100.8	98.0	95.3	92.5	89.7	82.7
162.5°	67.8	65.9	64.1	62.2	60.4	58.5	56.7	54.8	53.0	51.1	46.8
165°	34.4	33.2	32.1	30.9	29.8	28.6	27.5	26.3	25.2	24.0	21.8
167.5°	11.5	11.0	10.6	10.1	9.6	9.2	8.7	8.2	7.8	7.3	6.5
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°
0°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	953.8	954.1	954.3	954.5	954.7	955.0	955.2	955.4	953.7	951.9	950.2
5°	978.2	977.7	977.1	976.5	975.9	975.4	974.8	974.2	971.3	968.4	965.5
7.5°	1002.5	1001.0	999.5	998.0	996.5	995.0	993.5	992.0	987.6	983.2	978.8
10°	1027.2	1025.0	1022.8	1020.6	1018.4	1016.2	1014.0	1011.8	1005.4	999.0	992.7
12.5°	1053.9	1050.0	1046.1	1042.1	1038.2	1034.3	1030.3	1026.4	1018.4	1010.4	1002.4
15°	1086.0	1079.9	1073.8	1067.6	1061.5	1055.4	1049.2	1043.1	1033.1	1023.2	1013.2
17.5°	1119.8	1111.2	1102.6	1094.1	1085.5	1076.9	1068.4	1059.8	1047.5	1035.2	1022.9
20°	1151.8	1141.1	1130.3	1119.5	1108.7	1098.0	1087.2	1076.4	1061.6	1046.7	1031.9
22.5°	1185.0	1172.4	1159.9	1147.4	1134.9	1122.3	1109.8	1097.3	1079.3	1061.4	1043.4
25°	1218.8	1204.4	1190.0	1175.7	1161.3	1146.9	1132.6	1118.2	1096.9	1075.5	1054.2
27.5°	1251.3	1235.0	1218.6	1202.3	1185.9	1169.6	1153.2	1136.9	1112.5	1088.0	1063.6
30°	1282.0	1263.8	1245.6	1227.5	1209.3	1191.1	1172.9	1154.7	1127.2	1099.8	1072.3
32.5°	1312.6	1292.4	1272.2	1252.1	1231.9	1211.7	1191.6	1171.4	1140.8	1110.2	1079.6
35°	1341.9	1319.8	1297.7	1275.5	1253.4	1231.3	1209.1	1187.0	1153.7	1120.5	1087.2
37.5°	1371.6	1347.6	1323.6	1299.7	1275.7	1251.7	1227.7	1203.7	1167.7	1131.6	1095.6
40°	1401.1	1375.1	1349.1	1323.2	1297.2	1271.2	1245.3	1219.3	1180.6	1141.9	1103.2
42.5°	1429.0	1400.8	1372.7	1344.5	1316.4	1288.2	1260.1	1231.9	1190.6	1149.4	1108.1
45°	1455.9	1425.5	1395.1	1364.8	1334.4	1304.0	1273.7	1243.3	1199.5	1155.7	1111.9
47.5°	1482.5	1449.9	1417.2	1384.5	1351.8	1319.2	1286.5	1253.8	1207.6	1161.3	1115.1
50°	1507.7	1472.5	1437.3	1402.0	1366.8	1331.6	1296.3	1261.1	1212.5	1164.0	1115.4
52.5°	1530.5	1492.6	1454.7	1416.8	1378.9	1341.0	1303.1	1265.2	1214.6	1163.9	1113.3
55°	1552.0	1511.8	1471.6	1431.3	1391.1	1350.9	1310.7	1270.5	1217.5	1164.6	1111.6
57.5°	1571.3	1528.8	1486.3	1443.7	1401.2	1358.7	1316.1	1273.6	1218.3	1163.0	1107.7
60°	1587.7	1543.0	1498.3	1453.5	1408.8	1364.1	1319.3	1274.6	1217.4	1160.1	1102.9
62.5°	1598.6	1552.0	1505.4	1458.9	1412.3	1365.7	1319.1	1272.5	1213.4	1154.3	1095.2
65°	1606.1	1558.0	1509.9	1461.8	1413.7	1365.6	1317.5	1269.4	1208.3	1147.2	1086.2
67.5°	1607.7	1558.4	1509.0	1459.6	1410.2	1360.9	1311.5	1262.1	1199.4	1136.7	1074.0
70°	1603.8	1553.5	1503.2	1452.9	1402.6	1352.3	1302.0	1251.7	1187.6	1123.5	1059.4
72.5°	1591.6	1541.0	1490.3	1439.7	1389.0	1338.4	1287.7	1237.1	1172.0	1106.8	1041.7
75°	1573.4	1522.6	1471.7	1420.8	1369.9	1319.1	1268.2	1217.3	1151.5	1085.6	1019.8
77.5°	1546.5	1495.7	1445.0	1394.2	1343.5	1292.7	1242.0	1191.2	1125.1	1059.1	993.0
80°	1513.0	1462.7	1412.4	1362.1	1311.8	1261.5	1211.2	1160.9	1095.3	1029.7	964.1
82.5°	1473.7	1424.1	1374.5	1324.9	1275.3	1225.7	1176.1	1126.5	1061.6	996.7	931.8
85°	1431.5	1382.7	1333.9	1285.2	1236.4	1187.6	1138.8	1090.0	1026.0	962.0	898.1
87.5°	1386.9	1339.3	1291.7	1244.0	1196.4	1148.8	1101.1	1053.5	990.8	928.1	865.4
90°	1342.6	1296.2	1249.8	1203.5	1157.1	1110.7	1064.4	1018.0	956.6	895.2	833.7
92.5°	1307.5	1262.5	1217.4	1172.3	1127.2	1082.2	1037.1	992.0	931.7	871.5	811.2
95°	1272.6	1228.8	1185.0	1141.1	1097.3	1053.5	1009.7	965.9	906.6	847.2	787.9
97.5°	1237.1	1194.3	1151.5	1108.8	1066.0	1023.2	980.5	937.7	879.5	821.3	763.2
100°	1201.4	1159.6	1117.7	1075.9	1034.0	992.2	950.3	908.5	851.5	794.5	737.4
102.5°	1167.5	1126.5	1085.5	1044.4	1003.4	962.4	921.3	880.3	824.3	768.3	712.4
105°	1131.6	1091.4	1051.2	1010.9	970.7	930.5	890.3	850.1	795.2	740.2	685.3
107.5°	1094.8	1055.9	1017.1	978.3	939.5	900.6	861.8	823.0	768.8	714.5	660.3
110°	1053.8	1015.9	978.0	940.2	902.3	864.4	826.5	788.6	735.9	683.1	630.4





TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	1016.4	979.1	941.8	904.4	867.1	829.8	792.5	755.2	703.7	652.3	600.8
115°	973.5	937.7	901.9	866.0	830.2	794.4	758.6	722.8	672.5	622.2	571.9
117.5°	928.1	893.6	859.0	824.5	789.9	755.4	720.8	686.3	637.2	588.0	538.9
120°	880.9	847.3	813.7	780.1	746.5	712.9	679.3	645.7	598.6	551.6	504.5
122.5°	834.1	802.1	770.1	738.2	706.2	674.2	642.2	610.2	564.7	519.1	473.6
125°	784.3	753.4	722.6	691.8	661.0	630.1	599.3	568.5	525.2	481.8	438.5
127.5°	732.4	702.7	673.0	643.4	613.7	584.0	554.4	524.7	483.9	443.1	402.3
130°	678.0	648.8	619.6	590.4	561.2	532.0	502.8	473.6	436.2	398.7	361.3
132.5°	624.5	597.3	570.1	542.8	515.6	488.4	461.1	433.9	398.7	363.4	328.2
135°	568.1	542.4	516.7	490.9	465.2	439.5	413.7	388.0	355.7	323.3	291.0
137.5°	510.0	486.4	462.9	439.4	415.9	392.3	368.8	345.3	315.6	285.9	256.3
140°	455.2	433.6	411.9	390.2	368.5	346.9	325.2	303.5	276.4	249.3	222.2
142.5°	402.7	382.8	363.0	343.2	323.4	303.5	283.7	263.9	239.0	214.1	189.1
145°	352.0	333.5	314.9	296.4	277.8	259.3	240.7	222.2	200.5	178.8	157.2
147.5°	301.4	284.7	268.0	251.4	234.7	218.0	201.3	184.6	166.1	147.5	129.0
150°	253.6	238.5	223.4	208.4	193.3	178.2	163.2	148.1	133.0	118.0	102.9
152.5°	202.7	189.8	177.0	164.1	151.3	138.4	125.6	112.7	101.0	89.3	77.6
155°	157.2	146.0	134.9	123.8	112.7	101.5	90.4	79.3	70.8	62.4	53.9
157.5°	114.7	105.3	95.9	86.6	77.2	67.8	58.4	49.0	43.6	38.1	32.7
160°	75.8	68.8	61.9	54.9	48.0	41.0	34.1	27.1	24.1	21.1	18.1
162.5°	42.5	38.2	33.9	29.7	25.4	21.1	16.8	12.5	11.1	9.7	8.3
165°	19.6	17.4	15.2	13.0	10.8	8.6	6.4	4.2	3.7	3.3	2.8
167.5°	5.7	4.9	4.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	948.5	946.7	945.0	943.3	941.5	939.8	940.3	940.7	941.2	941.7	942.1
5°	962.6	959.7	956.8	953.9	951.0	948.1	947.2	946.3	945.3	944.4	943.5
7.5°	974.4	969.9	965.5	961.1	956.7	952.3	950.2	948.1	946.0	943.9	941.9
10°	986.3	979.9	973.5	967.2	960.8	954.4	951.0	947.7	944.3	941.0	937.6
12.5°	994.4	986.4	978.4	970.4	962.4	954.4	949.4	944.4	939.5	934.5	929.5
15°	1003.2	993.3	983.3	973.3	963.4	953.4	946.9	940.4	933.9	927.4	920.9
17.5°	1010.6	998.4	986.1	973.8	961.5	949.2	941.3	933.4	925.6	917.7	909.8
20°	1017.1	1002.2	987.4	972.6	957.7	942.9	933.4	923.9	914.4	904.9	895.4
22.5°	1025.4	1007.5	989.5	971.5	953.6	935.6	924.4	913.1	901.9	890.7	879.4
25°	1032.9	1011.5	990.2	968.9	947.5	926.2	913.2	900.2	887.3	874.3	861.3
27.5°	1039.1	1014.7	990.2	965.8	941.3	916.9	901.8	886.8	871.7	856.6	841.6
30°	1044.8	1017.4	989.9	962.4	935.0	907.5	890.3	873.2	856.0	838.9	821.7
32.5°	1049.0	1018.4	987.8	957.2	926.6	896.0	876.6	857.3	837.9	818.6	799.2
35°	1053.9	1020.7	987.4	954.1	920.9	887.6	865.5	843.3	821.2	799.1	776.9
37.5°	1059.5	1023.5	987.4	951.4	915.3	879.3	854.7	830.2	805.6	781.0	756.5
40°	1064.5	1025.8	987.1	948.4	909.7	871.0	843.5	816.1	788.6	761.1	733.7
42.5°	1066.8	1025.6	984.3	943.0	901.8	860.5	830.3	800.0	769.8	739.5	709.3
45°	1068.1	1024.3	980.5	936.7	892.9	849.1	816.1	783.0	750.0	717.0	683.9
47.5°	1068.8	1022.6	976.3	930.1	883.8	837.6	801.8	766.0	730.2	694.4	658.5
50°	1066.8	1018.3	969.7	921.1	872.6	824.0	785.6	747.3	708.9	670.6	632.2
52.5°	1062.6	1012.0	961.3	910.7	860.0	809.4	768.4	727.4	686.3	645.3	604.3
55°	1058.6	1005.7	952.7	899.7	846.8	793.8	750.5	707.1	663.8	620.4	577.1
57.5°	1052.4	997.2	941.9	886.6	831.3	776.0	730.5	684.9	639.4	593.8	548.3
60°	1045.6	988.4	931.1	873.9	816.6	759.4	711.5	663.7	615.8	567.9	520.1
62.5°	1036.1	977.0	917.9	858.8	799.7	740.6	690.8	640.9	591.1	541.3	491.4
65°	1025.1	964.0	902.9	841.9	780.8	719.7	668.0	616.3	564.6	512.9	461.3
67.5°	1011.3	948.6	885.9	823.2	760.5	697.8	644.4	591.0	537.5	484.1	430.7
70°	995.3	931.3	867.2	803.1	739.0	674.9	620.2	565.5	510.8	456.1	401.3
72.5°	976.6	911.4	846.3	781.2	716.0	650.9	595.2	539.4	483.7	427.9	372.2
75°	954.0	888.1	822.3	756.5	690.6	624.8	568.4	511.9	455.5	399.0	342.6
77.5°	926.9	860.9	794.8	728.7	662.7	596.6	539.9	483.3	426.6	369.9	313.3
80°	898.5	833.0	767.4	701.8	636.2	570.6	513.8	457.0	400.2	343.4	286.7
82.5°	866.9	802.0	737.1	672.2	607.3	542.4	486.1	429.8	373.4	317.1	260.8
85°	834.1	770.1	706.1	642.2	578.2	514.2	458.9	403.6	348.4	293.1	237.8
87.5°	802.7	740.0	677.3	614.6	551.9	489.2	435.1	381.0	326.8	272.7	218.6
90°	772.3	710.9	649.5	588.0	526.6	465.2	413.5	361.8	310.1	258.4	206.8
92.5°	750.9	690.7	630.4	570.1	509.9	449.6	399.6	349.7	299.7	249.8	199.8
95°	728.5	669.2	609.8	550.5	491.1	431.8	383.8	335.8	287.9	239.9	191.9
97.5°	705.0	646.8	588.6	530.5	472.3	414.1	368.1	322.1	276.1	230.1	184.0
100°	680.4	623.4	566.4	509.3	452.3	395.3	351.4	307.5	263.5	219.6	175.7
102.5°	656.4	600.4	544.4	488.5	432.5	376.5	334.7	292.8	251.0	209.2	167.3
105°	630.4	575.4	520.5	465.6	410.6	355.7	316.2	276.7	237.1	197.6	158.1
107.5°	606.0	551.8	497.5	443.3	389.0	334.8	297.6	260.4	223.2	186.0	148.8
110°	577.7	524.9	472.2	419.5	366.7	314.0	279.1	244.2	209.3	174.4	139.6



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	549.4	497.9	446.5	395.0	343.6	292.1	259.6	227.2	194.7	162.3	129.8
115°	521.6	471.4	421.1	370.8	320.5	270.2	240.2	210.2	180.1	150.1	120.1
117.5°	489.8	440.6	391.5	342.4	293.2	244.1	217.0	189.9	162.7	135.6	108.5
120°	457.5	410.4	363.4	316.3	269.3	222.2	197.5	172.8	148.1	123.4	98.8
122.5°	428.0	382.5	336.9	291.4	245.8	200.3	178.0	155.8	133.5	111.3	89.0
125°	395.1	351.8	308.4	265.1	221.7	178.4	158.6	138.8	118.9	99.1	79.3
127.5°	361.5	320.7	279.9	239.1	198.3	157.5	140.0	122.5	105.0	87.5	70.0
130°	323.8	286.4	248.9	211.5	174.0	136.6	121.4	106.2	91.1	75.9	60.7
132.5°	293.0	257.7	222.5	187.3	152.0	116.8	103.8	90.8	77.9	64.9	51.9
135°	258.7	226.3	194.0	161.7	129.3	97.0	86.2	75.4	64.7	53.9	43.1
137.5°	226.6	196.9	167.2	137.6	107.9	78.2	69.5	60.8	52.1	43.4	34.8
140°	195.1	167.9	140.8	113.7	86.6	59.5	52.9	46.3	39.7	33.1	26.4
142.5°	164.2	139.3	114.4	89.4	64.5	39.6	35.2	30.8	26.4	22.0	17.6
145°	135.5	113.8	92.1	70.5	48.8	27.1	24.1	21.1	18.1	15.1	12.0
147.5°	110.4	91.9	73.3	54.8	36.2	17.7	15.7	13.8	11.8	9.8	7.9
150°	87.8	72.8	57.7	42.6	27.6	12.5	11.1	9.7	8.3	6.9	5.6
152.5°	65.9	54.1	42.4	30.7	19.0	7.3	6.5	5.7	4.9	4.1	3.2
155°	45.4	37.0	28.5	20.0	11.6	3.1	2.8	2.4	2.1	1.7	1.4
157.5°	27.2	21.8	16.3	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	15.1	12.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	6.9	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.3	1.9	1.4	0.9	0.5	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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	942.6	943.1	943.5	944.0	941.7	939.4	937.0	934.7	932.4	930.1	927.7
5°	942.6	941.6	940.7	939.8	936.4	933.1	929.7	926.4	923.0	919.7	916.3
7.5°	939.8	937.7	935.6	933.5	929.2	924.9	920.6	916.3	912.1	907.8	903.5
10°	934.3	930.9	927.6	924.2	919.2	914.2	909.2	904.2	899.3	894.3	889.3
12.5°	924.5	919.6	914.6	909.6	904.4	899.2	893.9	888.7	883.5	878.3	873.0
15°	914.4	907.9	901.4	894.9	889.2	883.5	877.9	872.2	866.5	860.8	855.2
17.5°	901.9	894.1	886.2	878.3	872.4	866.5	860.6	854.7	848.7	842.8	836.9
20°	885.9	876.4	866.9	857.4	851.8	846.3	840.7	835.1	829.6	824.0	818.4
22.5°	868.2	857.0	845.7	834.5	829.3	824.1	818.8	813.6	808.4	803.2	797.9
25°	848.3	835.4	822.4	809.4	804.9	800.4	795.8	791.3	786.8	782.3	777.7
27.5°	826.5	811.4	796.4	781.3	777.9	774.6	771.2	767.8	764.5	761.1	757.7
30°	804.6	787.4	770.3	753.1	751.1	749.2	747.2	745.2	743.3	741.3	739.3
32.5°	779.9	760.5	741.2	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8
35°	754.8	732.7	710.5	688.4	690.6	692.8	695.0	697.2	699.4	701.6	703.8
37.5°	731.9	707.3	682.8	658.2	662.4	666.5	670.7	674.9	679.0	683.2	687.4
40°	706.2	678.7	651.3	623.8	630.1	636.3	642.6	648.8	655.1	661.3	667.6
42.5°	679.0	648.8	618.5	588.3	596.8	605.2	613.7	622.1	630.6	639.0	647.5
45°	650.9	617.9	584.8	551.8	562.5	573.1	583.8	594.4	605.1	615.7	626.4
47.5°	622.7	586.9	551.1	515.3	528.2	541.0	553.9	566.8	579.6	592.5	605.4
50°	593.9	555.5	517.2	478.8	493.7	508.7	523.6	538.6	553.5	568.5	583.4
52.5°	563.3	522.2	481.2	440.2	457.3	474.5	491.6	508.8	525.9	543.1	560.2
55°	533.7	490.4	447.0	403.7	422.8	441.9	461.1	480.2	499.3	518.4	537.6
57.5°	502.7	457.2	411.6	366.1	387.3	408.5	429.7	450.9	472.2	493.4	514.6
60°	472.2	424.3	376.5	328.6	351.5	374.5	397.4	420.4	443.3	466.3	489.2
62.5°	441.6	391.8	341.9	292.1	316.8	341.5	366.1	390.8	415.5	440.2	464.8
65°	409.6	357.9	306.2	254.5	280.9	307.3	333.8	360.2	386.6	413.0	439.5
67.5°	377.3	323.8	270.4	217.0	245.0	273.1	301.1	329.2	357.2	385.3	413.3
70°	346.6	291.9	237.2	182.5	211.7	240.9	270.1	299.3	328.6	357.8	387.0
72.5°	316.4	260.7	204.9	149.2	179.3	209.5	239.6	269.7	299.9	330.0	360.1
75°	286.1	229.7	173.2	116.8	147.7	178.7	209.6	240.6	271.5	302.5	333.4
77.5°	256.6	199.9	143.3	86.6	117.8	149.0	180.1	211.3	242.5	273.7	304.8
80°	229.9	173.1	116.3	59.5	90.9	122.3	153.7	185.1	216.5	247.9	279.3
82.5°	204.5	148.1	91.8	35.5	66.7	97.8	129.0	160.2	191.3	222.5	253.7
85°	182.5	127.3	72.0	16.7	47.4	78.1	108.8	139.5	170.3	201.0	231.7
87.5°	164.5	110.3	56.2	2.1	32.1	62.1	92.1	122.1	152.2	182.2	212.2
90°	155.1	103.4	51.7	0.0	28.5	57.0	85.5	114.0	142.6	171.1	199.6
92.5°	149.9	99.9	50.0	0.0	26.9	53.8	80.7	107.6	134.4	161.3	188.2
95°	143.9	96.0	48.0	0.0	25.5	51.0	76.5	102.0	127.5	153.0	178.5
97.5°	138.0	92.0	46.0	0.0	24.0	48.0	72.0	96.0	119.9	143.9	167.9
100°	131.8	87.8	43.9	0.0	22.6	45.2	67.8	90.4	113.0	135.6	158.2
102.5°	125.5	83.7	41.8	0.0	21.2	42.4	63.6	84.8	106.1	127.3	148.5
105°	118.6	79.0	39.5	0.0	19.7	39.4	59.1	78.8	98.5	118.2	137.9
107.5°	111.6	74.4	37.2	0.0	18.2	36.4	54.6	72.8	91.0	109.2	127.4
110°	104.7	69.8	34.9	0.0	16.8	33.6	50.4	67.2	84.0	100.8	117.6



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	97.4	64.9	32.5	0.0	15.3	30.6	45.9	61.2	76.5	91.8	107.1
115°	90.1	60.0	30.0	0.0	13.8	27.6	41.4	55.2	68.9	82.7	96.5
117.5°	81.4	54.2	27.1	0.0	12.3	24.6	36.9	49.2	61.4	73.7	86.0
120°	74.1	49.4	24.7	0.0	10.8	21.6	32.3	43.1	53.9	64.7	75.4
122.5°	66.8	44.5	22.3	0.0	9.5	19.0	28.5	38.0	47.5	57.0	66.5
125°	59.5	39.6	19.8	0.0	8.0	16.0	24.0	32.0	40.0	48.0	56.0
127.5°	52.5	35.0	17.5	0.0	6.5	13.0	19.5	26.0	32.4	38.9	45.4
130°	45.5	30.4	15.2	0.0	5.1	10.2	15.3	20.4	25.5	30.6	35.7
132.5°	38.9	26.0	13.0	0.0	3.8	7.6	11.5	15.3	19.1	22.9	26.8
135°	32.3	21.6	10.8	0.0	2.7	5.3	8.0	10.7	13.3	16.0	18.7
137.5°	26.1	17.4	8.7	0.0	1.7	3.5	5.2	6.9	8.7	10.4	12.1
140°	19.8	13.2	6.6	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5
142.5°	13.2	8.8	4.4	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3
145°	9.0	6.0	3.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
147.5°	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	925.4	923.1	922.4	921.7	921.0	920.3	919.7	919.0	918.3	917.6	916.9
5°	913.0	909.6	908.3	907.0	905.8	904.5	903.2	901.9	900.7	899.4	898.1
7.5°	899.2	894.9	893.4	891.9	890.4	888.9	887.4	885.9	884.4	882.9	881.4
10°	884.3	879.3	877.9	876.5	875.1	873.7	872.4	871.0	869.6	868.2	866.8
12.5°	867.8	862.6	861.8	861.0	860.2	859.4	858.5	857.7	856.9	856.1	855.3
15°	849.5	843.8	844.2	844.5	844.9	845.2	845.6	845.9	846.3	846.6	847.0
17.5°	831.0	825.1	827.5	830.0	832.4	834.8	837.3	839.7	842.1	844.6	847.0
20°	812.9	807.3	812.5	817.7	823.0	828.2	833.4	838.6	843.9	849.1	854.3
22.5°	792.7	787.5	795.7	804.0	812.2	820.4	828.7	836.9	845.1	853.4	861.6
25°	773.2	768.7	779.8	791.0	802.1	813.2	824.4	835.5	846.6	857.8	868.9
27.5°	754.4	751.0	764.6	778.1	791.7	805.2	818.8	832.3	845.9	859.4	873.0
30°	737.4	735.4	751.2	766.9	782.7	798.4	814.2	829.9	845.7	861.4	877.2
32.5°	721.8	721.8	739.4	757.0	774.6	792.2	809.9	827.5	845.1	862.7	880.3
35°	706.0	708.2	727.4	746.7	765.9	785.2	804.4	823.7	842.9	862.2	881.4
37.5°	691.5	695.7	716.4	737.2	757.9	778.7	799.4	820.2	840.9	861.7	882.4
40°	673.8	680.1	702.7	725.3	747.9	770.5	793.1	815.7	838.3	860.9	883.5
42.5°	655.9	664.4	688.6	712.8	737.1	761.3	785.5	809.7	834.0	858.2	882.4
45°	637.0	647.7	673.7	699.6	725.6	751.6	777.5	803.5	829.5	855.4	881.4
47.5°	618.2	631.1	658.7	686.3	713.8	741.4	769.0	796.6	824.1	851.7	879.3
50°	598.4	613.3	642.6	671.9	701.3	730.6	759.9	789.2	818.6	847.9	877.2
52.5°	577.4	594.5	625.3	656.2	687.0	717.8	748.7	779.5	810.3	841.2	872.0
55°	556.7	575.8	608.2	640.7	673.1	705.6	738.0	770.5	802.9	835.4	867.8
57.5°	535.8	557.0	591.2	625.4	659.6	693.8	727.9	762.1	796.3	830.5	864.7
60°	512.2	535.1	571.1	607.2	643.2	679.3	715.3	751.4	787.4	823.5	859.5
62.5°	489.5	514.2	552.0	589.8	627.6	665.4	703.1	740.9	778.7	816.5	854.3
65°	465.9	492.3	531.7	571.1	610.5	649.9	689.4	728.8	768.2	807.6	847.0
67.5°	441.4	469.4	510.3	551.2	592.1	633.0	674.0	714.9	755.8	796.7	837.6
70°	416.2	445.4	487.5	529.5	571.6	613.7	655.7	697.8	739.9	781.9	824.0
72.5°	390.3	420.4	462.9	505.5	548.0	590.5	633.1	675.6	718.1	760.7	803.2
75°	364.4	395.3	437.7	480.1	522.6	565.0	607.4	649.8	692.3	734.7	777.1
77.5°	336.0	367.2	409.3	451.3	493.4	535.5	577.5	619.6	661.7	703.7	745.8
80°	310.7	342.1	383.1	424.2	465.2	506.2	547.3	588.3	629.3	670.4	711.4
82.5°	284.8	316.0	355.9	395.8	435.6	475.5	515.4	555.3	595.1	635.0	674.9
85°	262.4	293.1	331.7	370.3	408.9	447.5	486.0	524.6	563.2	601.8	640.4
87.5°	242.2	272.2	309.8	347.3	384.9	422.4	460.0	497.5	535.1	572.6	610.2
90°	228.1	256.6	292.9	329.2	365.4	401.7	438.0	474.3	510.5	546.8	583.1
92.5°	215.1	242.0	277.6	313.2	348.7	384.3	419.9	455.5	491.0	526.6	562.2
95°	204.0	229.5	264.1	298.8	333.4	368.1	402.7	437.4	472.0	506.7	541.3
97.5°	191.9	215.9	249.9	283.8	317.8	351.7	385.7	419.6	453.6	487.5	521.5
100°	180.8	203.4	236.5	269.7	302.8	336.0	369.1	402.3	435.4	468.6	501.7
102.5°	169.7	190.9	223.2	255.6	287.9	320.2	352.6	384.9	417.2	449.6	481.9
105°	157.6	177.3	209.1	240.8	272.6	304.3	336.1	367.8	399.6	431.3	463.1
107.5°	145.6	163.8	194.6	225.4	256.3	287.1	317.9	348.7	379.6	410.4	441.2
110°	134.4	151.2	180.9	210.6	240.2	269.9	299.6	329.3	358.9	388.6	418.3



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	122.4	137.7	166.4	195.2	223.9	252.7	281.4	310.2	338.9	367.7	396.4
115°	110.3	124.1	151.8	179.5	207.2	234.9	262.6	290.3	318.0	345.7	373.4
117.5°	98.3	110.6	137.3	163.9	190.6	217.2	243.9	270.5	297.2	323.8	350.5
120°	86.2	97.0	122.5	148.0	173.5	199.0	224.5	250.0	275.5	301.0	326.5
122.5°	76.0	85.5	109.6	133.7	157.8	181.9	206.1	230.2	254.3	278.4	302.5
125°	64.0	72.0	94.8	117.7	140.5	163.3	186.2	209.0	231.8	254.7	277.5
127.5°	51.9	58.4	79.4	100.4	121.3	142.3	163.3	184.3	205.2	226.2	247.2
130°	40.8	45.9	65.0	84.1	103.3	122.4	141.5	160.6	179.8	198.9	218.0
132.5°	30.6	34.4	51.4	68.5	85.5	102.6	119.6	136.7	153.7	170.8	187.8
135°	21.3	24.0	39.2	54.4	69.5	84.7	99.9	115.1	130.2	145.4	160.6
137.5°	13.9	15.6	28.8	42.0	55.3	68.5	81.7	94.9	108.2	121.4	134.6
140°	7.4	8.3	19.8	31.3	42.7	54.2	65.7	77.2	88.6	100.1	111.6
142.5°	3.7	4.2	13.7	23.2	32.7	42.2	51.7	61.2	70.7	80.2	89.7
145°	0.9	1.0	8.7	16.3	24.0	31.6	39.3	46.9	54.6	62.2	69.9
147.5°	0.0	0.0	5.8	11.6	17.4	23.2	29.0	34.8	40.6	46.4	52.2
150°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	24.3	28.4	32.4	36.5
152.5°	0.0	0.0	2.4	4.9	7.3	9.7	12.2	14.6	17.0	19.5	21.9
155°	0.0	0.0	1.3	2.6	3.8	5.1	6.4	7.7	8.9	10.2	11.5
157.5°	0.0	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1
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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	915.9	914.8	913.8	912.7	911.7	910.6	909.6	908.5	907.5	906.5	905.4
5°	896.9	895.8	894.6	893.4	892.3	891.1	889.9	888.8	887.6	886.9	886.2
7.5°	880.4	879.3	878.3	877.2	876.2	875.1	874.1	873.0	872.0	871.7	871.3
10°	866.7	866.6	866.4	866.3	866.2	866.1	865.9	865.8	865.7	865.5	865.3
12.5°	856.3	857.4	858.4	859.5	860.5	861.6	862.6	863.7	864.7	865.4	866.1
15°	850.4	853.7	857.1	860.4	863.8	867.1	870.5	873.8	877.2	879.1	880.9
17.5°	852.6	858.1	863.7	869.2	874.8	880.3	885.9	891.4	897.0	899.2	901.4
20°	861.0	867.7	874.5	881.2	887.9	894.6	901.4	908.1	914.8	917.5	920.1
22.5°	869.5	877.4	885.2	893.1	901.0	908.9	916.7	924.6	932.5	935.4	938.3
25°	877.7	886.5	895.3	904.1	912.9	921.7	930.5	939.3	948.1	951.5	954.8
27.5°	883.1	893.2	903.3	913.4	923.4	933.5	943.6	953.7	963.8	967.4	971.0
30°	888.3	899.5	910.6	921.7	932.9	944.0	955.1	966.3	977.4	981.7	986.0
32.5°	892.6	904.9	917.2	929.5	941.7	954.0	966.3	978.6	990.9	995.8	1000.6
35°	895.1	908.8	922.4	936.1	949.8	963.5	977.1	990.8	1004.5	1010.1	1015.6
37.5°	897.5	912.5	927.6	942.7	957.7	972.8	987.9	1002.9	1018.0	1024.4	1030.8
40°	900.0	916.4	932.9	949.3	965.8	982.2	998.7	1015.1	1031.6	1038.7	1045.7
42.5°	900.4	918.3	936.3	954.3	972.2	990.2	1008.2	1026.1	1044.1	1052.0	1059.9
45°	901.1	920.8	940.5	960.2	979.9	999.6	1019.3	1039.0	1058.7	1067.3	1075.9
47.5°	901.0	922.7	944.3	966.0	987.7	1009.4	1031.0	1052.7	1074.4	1083.8	1093.2
50°	900.7	924.3	947.8	971.3	994.9	1018.4	1041.9	1065.5	1089.0	1099.4	1109.8
52.5°	897.6	923.2	948.8	974.4	1000.1	1025.7	1051.3	1076.9	1102.5	1113.9	1125.2
55°	895.6	923.4	951.3	979.1	1006.9	1034.7	1062.6	1090.4	1118.2	1130.1	1142.1
57.5°	894.3	923.8	953.4	982.9	1012.5	1042.0	1071.6	1101.1	1130.7	1143.4	1156.2
60°	890.8	922.1	953.4	984.7	1015.9	1047.2	1078.5	1109.8	1141.1	1154.2	1167.3
62.5°	887.0	919.7	952.3	985.0	1017.7	1050.4	1083.0	1115.7	1148.4	1161.6	1174.8
65°	880.8	914.7	948.5	982.3	1016.2	1050.0	1083.8	1117.7	1151.5	1164.8	1178.2
67.5°	872.0	906.4	940.9	975.3	1009.7	1044.1	1078.6	1113.0	1147.4	1160.7	1174.0
70°	858.8	893.5	928.3	963.1	997.8	1032.6	1067.4	1102.1	1136.9	1150.0	1163.1
72.5°	838.0	872.7	907.5	942.3	977.0	1011.8	1046.6	1081.3	1116.1	1128.7	1141.4
75°	811.3	845.5	879.7	913.9	948.0	982.2	1016.4	1050.6	1084.8	1097.0	1109.1
77.5°	778.9	812.1	845.2	878.4	911.5	944.7	977.8	1011.0	1044.1	1056.0	1068.0
80°	743.5	775.6	807.7	839.8	871.9	904.0	936.1	968.2	1000.3	1011.9	1023.5
82.5°	705.8	736.8	767.7	798.7	829.6	860.6	891.5	922.5	953.4	964.8	976.1
85°	670.8	701.1	731.5	761.9	792.2	822.6	853.0	883.3	913.7	924.7	935.7
87.5°	638.8	667.4	696.1	724.7	753.3	781.9	810.6	839.2	867.8	878.6	889.4
90°	611.1	639.2	667.2	695.3	723.3	751.4	779.4	807.5	835.5	845.7	855.9
92.5°	589.3	616.4	643.6	670.7	697.8	724.9	752.1	779.2	806.3	816.1	826.0
95°	567.4	593.5	619.5	645.6	671.7	697.8	723.8	749.9	776.0	785.4	794.8
97.5°	546.8	572.0	597.3	622.6	647.8	673.1	698.4	723.6	748.9	757.8	766.7
100°	526.4	551.1	575.8	600.5	625.1	649.8	674.5	699.2	723.9	732.6	741.3
102.5°	506.0	530.1	554.2	578.3	602.5	626.6	650.7	674.8	698.9	707.6	716.3
105°	486.4	509.7	533.0	556.3	579.6	602.9	626.2	649.5	672.8	681.0	689.2
107.5°	463.9	486.6	509.4	532.1	554.8	577.5	600.3	623.0	645.7	653.7	661.7
110°	440.4	462.6	484.7	506.8	529.0	551.1	573.2	595.4	617.5	625.6	633.7





TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	417.7	439.0	460.4	481.7	503.0	524.3	545.7	567.0	588.3	595.9	603.6
115°	394.0	414.7	435.3	455.9	476.6	497.2	517.8	538.5	559.1	566.4	573.7
117.5°	370.3	390.1	409.9	429.7	449.6	469.4	489.2	509.0	528.8	536.0	543.2
120°	345.6	364.7	383.9	403.0	422.1	441.2	460.4	479.5	498.6	505.4	512.3
122.5°	320.8	339.1	357.4	375.7	394.1	412.4	430.7	449.0	467.3	474.0	480.7
125°	295.1	312.7	330.3	347.9	365.6	383.2	400.8	418.4	436.0	442.5	449.0
127.5°	264.6	282.0	299.4	316.8	334.1	351.5	368.9	386.3	403.7	410.0	416.2
130°	234.9	251.8	268.8	285.7	302.6	319.5	336.5	353.4	370.3	376.3	382.3
132.5°	204.3	220.7	237.2	253.6	270.1	286.5	303.0	319.4	335.9	341.7	347.5
135°	176.5	192.4	208.2	224.1	240.0	255.9	271.7	287.6	303.5	308.8	314.2
137.5°	149.4	164.3	179.1	193.9	208.8	223.6	238.4	253.3	268.1	273.4	278.7
140°	124.7	137.8	150.9	164.0	177.1	190.2	203.3	216.4	229.5	235.5	241.5
142.5°	101.3	112.9	124.5	136.1	147.6	159.2	170.8	182.4	194.0	199.9	205.8
145°	79.9	89.8	99.8	109.8	119.7	129.7	139.7	149.6	159.6	165.6	171.6
147.5°	60.7	69.1	77.6	86.0	94.5	102.9	111.4	119.8	128.3	134.3	140.3
150°	43.6	50.6	57.7	64.8	71.8	78.9	86.0	93.0	100.1	105.7	111.2
152.5°	27.7	33.5	39.3	45.1	50.9	56.7	62.5	68.3	74.1	79.2	84.3
155°	15.8	20.1	24.4	28.7	32.9	37.2	41.5	45.8	50.1	54.6	59.1
157.5°	6.0	8.9	11.8	14.7	17.6	20.5	23.4	26.3	29.2	33.0	36.8
160°	1.5	3.0	4.5	6.0	7.6	9.1	10.6	12.1	13.6	16.4	19.2
162.5°	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	3.8	5.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	904.4	903.3	902.3	901.2	900.2	899.1	898.1	899.0	899.9	900.9	901.8
5°	885.5	884.8	884.2	883.5	882.8	882.1	881.4	882.0	882.6	883.1	883.7
7.5°	871.0	870.6	870.3	869.9	869.6	869.2	868.9	869.2	869.6	869.9	870.3
10°	865.0	864.8	864.6	864.4	864.1	863.9	863.7	863.6	863.5	863.3	863.2
12.5°	866.8	867.5	868.2	868.9	869.6	870.3	871.0	869.8	868.7	867.5	866.3
15°	882.8	884.6	886.5	888.3	890.2	892.0	893.9	891.9	890.0	888.0	886.0
17.5°	903.6	905.8	908.1	910.3	912.5	914.7	916.9	914.8	912.7	910.6	908.5
20°	922.8	925.5	928.1	930.8	933.5	936.1	938.8	935.9	933.0	930.1	927.2
22.5°	941.2	944.1	947.0	949.9	952.8	955.7	958.6	955.2	951.9	948.5	945.1
25°	958.2	961.6	964.9	968.3	971.7	975.0	978.4	974.7	971.0	967.3	963.6
27.5°	974.6	978.2	981.7	985.3	988.9	992.5	996.1	992.2	988.2	984.3	980.4
30°	990.2	994.5	998.8	1003.1	1007.3	1011.6	1015.9	1011.4	1006.9	1002.4	997.9
32.5°	1005.5	1010.4	1015.2	1020.1	1025.0	1029.8	1034.7	1029.6	1024.5	1019.4	1014.3
35°	1021.2	1026.7	1032.3	1037.8	1043.4	1048.9	1054.5	1048.8	1043.1	1037.5	1031.8
37.5°	1037.1	1043.5	1049.9	1056.3	1062.6	1069.0	1075.4	1069.1	1062.9	1056.6	1050.4
40°	1052.8	1059.9	1066.9	1074.0	1081.1	1088.1	1095.2	1088.4	1081.5	1074.7	1067.9
42.5°	1067.7	1075.6	1083.5	1091.4	1099.2	1107.1	1115.0	1107.6	1100.2	1092.8	1085.4
45°	1084.4	1093.0	1101.6	1110.2	1118.7	1127.3	1135.9	1127.9	1119.9	1111.9	1103.9
47.5°	1102.5	1111.9	1121.3	1130.7	1140.0	1149.4	1158.8	1150.1	1141.4	1132.7	1124.0
50°	1120.3	1130.7	1141.1	1151.5	1162.0	1172.4	1182.8	1173.3	1163.8	1154.3	1144.8
52.5°	1136.6	1147.9	1159.3	1170.6	1182.0	1193.3	1204.7	1194.5	1184.3	1174.1	1163.9
55°	1154.0	1165.9	1177.9	1189.8	1201.7	1213.7	1225.6	1214.8	1204.0	1193.3	1182.5
57.5°	1168.9	1181.7	1194.4	1207.2	1219.9	1232.7	1245.4	1234.0	1222.7	1211.3	1200.0
60°	1180.4	1193.5	1206.6	1219.7	1232.8	1245.9	1259.0	1247.5	1236.0	1224.6	1213.1
62.5°	1188.0	1201.2	1214.5	1227.7	1240.9	1254.1	1267.3	1255.7	1244.1	1232.5	1220.9
65°	1191.5	1204.8	1218.2	1231.5	1244.8	1258.2	1271.5	1259.7	1247.9	1236.0	1224.2
67.5°	1187.4	1200.7	1214.0	1227.3	1240.7	1254.0	1267.3	1255.7	1244.1	1232.5	1220.9
70°	1176.2	1189.3	1202.4	1215.5	1228.6	1241.7	1254.8	1243.1	1231.4	1219.7	1208.0
72.5°	1154.0	1166.6	1179.3	1191.9	1204.5	1217.2	1229.8	1218.4	1207.1	1195.7	1184.4
75°	1121.3	1133.5	1145.6	1157.8	1170.0	1182.1	1194.3	1183.3	1172.3	1161.3	1150.3
77.5°	1079.9	1091.8	1103.8	1115.7	1127.6	1139.6	1151.5	1140.6	1129.7	1118.8	1107.9
80°	1035.1	1046.7	1058.2	1069.8	1081.4	1093.0	1104.6	1093.9	1083.3	1072.6	1061.9
82.5°	987.5	998.8	1010.2	1021.5	1032.9	1044.2	1055.6	1045.7	1035.9	1026.0	1016.2
85°	946.7	957.7	968.8	979.8	990.8	1001.8	1012.8	1002.6	992.4	982.2	972.0
87.5°	900.1	910.9	921.7	932.5	943.2	954.0	964.8	955.1	945.3	935.6	925.9
90°	866.1	876.3	886.5	896.7	906.9	917.1	927.3	917.8	908.3	898.8	889.3
92.5°	835.8	845.7	855.5	865.4	875.2	885.1	894.9	885.6	876.4	867.1	857.8
95°	804.2	813.6	822.9	832.3	841.7	851.1	860.5	851.8	843.1	834.4	825.7
97.5°	775.7	784.6	793.5	802.4	811.4	820.3	829.2	821.0	812.8	804.5	796.3
100°	750.0	758.7	767.3	776.0	784.7	793.4	802.1	793.6	785.2	776.7	768.3
102.5°	725.0	733.7	742.3	751.0	759.7	768.4	777.1	768.5	759.9	751.4	742.8
105°	697.5	705.7	713.9	722.1	730.4	738.6	746.8	738.7	730.6	722.5	714.4
107.5°	669.7	677.7	685.6	693.6	701.6	709.6	717.6	709.7	701.8	694.0	686.1
110°	641.8	649.9	658.1	666.2	674.3	682.4	690.5	682.5	674.5	666.5	658.5



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	611.2	618.9	626.5	634.2	641.8	649.5	657.1	649.6	642.0	634.5	627.0
115°	581.0	588.3	595.6	602.9	610.2	617.5	624.8	617.6	610.4	603.2	596.0
117.5°	550.4	557.6	564.7	571.9	579.1	586.3	593.5	586.5	579.6	572.6	565.7
120°	519.1	525.9	532.8	539.6	546.4	553.3	560.1	553.5	546.9	540.3	533.7
122.5°	487.5	494.2	500.9	507.6	514.4	521.1	527.8	521.5	515.3	509.0	502.8
125°	455.5	462.0	468.4	474.9	481.4	487.9	494.4	488.4	482.4	476.3	470.3
127.5°	422.5	428.7	435.0	441.2	447.5	453.7	460.0	454.3	448.6	443.0	437.3
130°	388.4	394.4	400.4	406.4	412.5	418.5	424.5	419.1	413.6	408.2	402.7
132.5°	353.3	359.1	364.8	370.6	376.4	382.2	388.0	382.9	377.8	372.7	367.6
135°	319.5	324.8	330.2	335.5	340.8	346.2	351.5	346.9	342.2	337.6	333.0
137.5°	284.1	289.4	294.7	300.0	305.4	310.7	316.0	311.7	307.4	303.2	298.9
140°	247.6	253.6	259.6	265.6	271.7	277.7	283.7	279.4	275.1	270.8	266.5
142.5°	211.7	217.6	223.6	229.5	235.4	241.3	247.2	243.6	240.0	236.4	232.8
145°	177.7	183.7	189.7	195.7	201.8	207.8	213.8	210.6	207.3	204.1	200.8
147.5°	146.4	152.4	158.4	164.4	170.5	176.5	182.5	179.5	176.5	173.5	170.5
150°	116.8	122.4	127.9	133.5	139.1	144.6	150.2	147.7	145.1	142.6	140.0
152.5°	89.4	94.5	99.6	104.7	109.8	114.9	120.0	117.8	115.6	113.4	111.2
155°	63.6	68.1	72.7	77.2	81.7	86.2	90.7	89.1	87.5	85.8	84.2
157.5°	40.7	44.5	48.3	52.1	56.0	59.8	63.6	62.3	61.1	59.8	58.5
160°	21.9	24.7	27.5	30.3	33.0	35.8	38.6	37.7	36.7	35.8	34.9
162.5°	7.3	9.0	10.8	12.5	14.2	16.0	17.7	17.2	16.8	16.3	15.9
165°	1.4	1.9	2.3	2.8	3.3	3.7	4.2	4.2	4.2	4.2	4.2
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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	902.7	903.6	904.6	905.5	906.4	908.0	909.6	911.3	912.9	914.5	916.1
5°	884.3	884.9	885.4	886.0	886.6	888.5	890.3	892.2	894.0	895.9	897.7
7.5°	870.6	871.0	871.3	871.7	872.0	873.6	875.2	876.9	878.5	880.1	881.7
10°	863.1	863.0	862.8	862.7	862.6	863.8	864.9	866.1	867.2	868.4	869.5
12.5°	865.2	864.0	862.8	861.7	860.5	860.7	861.0	861.2	861.4	861.7	861.9
15°	884.1	882.1	880.1	878.2	876.2	873.9	871.6	869.2	866.9	864.6	862.3
17.5°	906.5	904.4	902.3	900.2	898.1	893.2	888.4	883.5	878.6	873.8	868.9
20°	924.3	921.4	918.5	915.6	912.7	907.0	901.3	895.7	890.0	884.3	878.6
22.5°	941.8	938.4	935.0	931.7	928.3	921.6	914.9	908.1	901.4	894.7	888.0
25°	959.8	956.1	952.4	948.7	945.0	937.1	929.2	921.4	913.5	905.6	897.7
27.5°	976.4	972.5	968.6	964.6	960.7	951.7	942.6	933.6	924.5	915.5	906.4
30°	993.3	988.8	984.3	979.8	975.3	965.1	954.9	944.7	934.5	924.3	914.1
32.5°	1009.2	1004.1	999.0	993.9	988.8	977.2	965.6	954.0	942.4	930.9	919.3
35°	1026.1	1020.4	1014.8	1009.1	1003.4	990.4	977.4	964.5	951.5	938.5	925.5
37.5°	1044.1	1037.9	1031.6	1025.4	1019.1	1004.7	990.3	976.0	961.6	947.2	932.8
40°	1061.0	1054.2	1047.4	1040.5	1033.7	1017.9	1002.2	986.4	970.6	954.9	939.1
42.5°	1077.9	1070.5	1063.1	1055.7	1048.3	1030.9	1013.5	996.1	978.7	961.4	944.0
45°	1095.9	1087.9	1079.9	1071.9	1063.9	1044.8	1025.7	1006.5	987.4	968.3	949.2
47.5°	1115.4	1106.7	1098.0	1089.3	1080.6	1059.5	1038.4	1017.3	996.2	975.2	954.1
50°	1135.3	1125.8	1116.3	1106.8	1097.3	1074.1	1050.9	1027.8	1004.6	981.4	958.2
52.5°	1153.7	1143.5	1133.3	1123.1	1112.9	1087.6	1062.4	1037.1	1011.9	986.6	961.4
55°	1171.7	1160.9	1150.2	1139.4	1128.6	1101.2	1073.9	1046.5	1019.2	991.8	964.5
57.5°	1188.6	1177.3	1165.9	1154.6	1143.2	1114.0	1084.8	1055.6	1026.4	997.1	967.9
60°	1201.6	1190.1	1178.7	1167.2	1155.7	1124.6	1093.6	1062.5	1031.5	1000.4	969.4
62.5°	1209.4	1197.8	1186.2	1174.6	1163.0	1130.6	1098.1	1065.7	1033.2	1000.8	968.3
65°	1212.4	1200.6	1188.7	1176.9	1165.1	1131.6	1098.1	1064.6	1031.1	997.7	964.2
67.5°	1209.4	1197.8	1186.2	1174.6	1163.0	1128.7	1094.4	1060.1	1025.8	991.5	957.2
70°	1196.3	1184.6	1172.9	1161.2	1149.5	1115.1	1080.7	1046.2	1011.8	977.4	943.0
72.5°	1173.0	1161.7	1150.3	1139.0	1127.6	1093.4	1059.2	1025.0	990.8	956.6	922.4
75°	1139.2	1128.2	1117.2	1106.2	1095.2	1061.6	1028.0	994.4	960.8	927.1	893.5
77.5°	1097.1	1086.2	1075.3	1064.4	1053.5	1020.8	988.1	955.5	922.8	890.1	857.4
80°	1051.3	1040.6	1029.9	1019.3	1008.6	977.0	945.3	913.7	882.1	850.4	818.8
82.5°	1006.3	996.5	986.6	976.8	966.9	935.7	904.5	873.4	842.2	811.0	779.8
85°	961.8	951.6	941.4	931.2	921.0	891.0	861.0	831.0	801.0	770.9	740.9
87.5°	916.1	906.4	896.7	886.9	877.2	848.5	819.7	791.0	762.2	733.5	704.7
90°	879.8	870.3	860.8	851.3	841.8	814.3	786.8	759.4	731.9	704.4	676.9
92.5°	848.6	839.3	830.0	820.8	811.5	785.1	758.7	732.2	705.8	679.4	653.0
95°	817.1	808.4	799.7	791.0	782.3	756.8	731.3	705.8	680.3	654.8	629.3
97.5°	788.1	779.9	771.6	763.4	755.2	730.5	705.8	681.1	656.4	631.8	607.1
100°	759.8	751.4	742.9	734.5	726.0	702.2	678.5	654.7	630.9	607.2	583.4
102.5°	734.2	725.6	717.1	708.5	699.9	676.7	653.5	630.4	607.2	584.0	560.8
105°	706.2	698.1	690.0	681.9	673.8	651.1	628.4	605.7	583.0	560.2	537.5
107.5°	678.2	670.3	662.5	654.6	646.7	624.8	602.9	581.0	559.1	537.2	515.3
110°	650.5	642.5	634.5	626.5	618.5	597.4	576.3	555.2	534.1	513.1	492.0



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	619.4	611.9	604.4	596.8	589.3	569.0	548.7	528.5	508.2	487.9	467.6
115°	588.9	581.7	574.5	567.3	560.1	540.6	521.2	501.7	482.2	462.8	443.3
117.5°	558.7	551.8	544.8	537.9	530.9	512.1	493.3	474.6	455.8	437.0	418.2
120°	527.1	520.5	513.9	507.3	500.7	482.6	464.5	446.5	428.4	410.3	392.2
122.5°	496.5	490.3	484.0	477.8	471.5	453.9	436.3	418.6	401.0	383.4	365.8
125°	464.3	458.3	452.2	446.2	440.2	423.2	406.1	389.1	372.0	355.0	337.9
127.5°	431.6	425.9	420.3	414.6	408.9	392.7	376.5	360.2	344.0	327.8	311.6
130°	397.3	391.8	386.4	380.9	375.5	360.1	344.7	329.3	313.9	298.4	283.0
132.5°	362.5	357.4	352.3	347.2	342.1	327.7	313.4	299.0	284.6	270.3	255.9
135°	328.3	323.7	319.1	314.4	309.8	296.5	283.1	269.8	256.5	243.1	229.8
137.5°	294.6	290.3	286.1	281.8	277.5	265.2	252.9	240.6	228.3	216.1	203.8
140°	262.3	258.0	253.7	249.4	245.1	234.1	223.1	212.1	201.1	190.0	179.0
142.5°	229.3	225.7	222.1	218.5	214.9	204.8	194.7	184.6	174.5	164.5	154.4
145°	197.6	194.3	191.1	187.8	184.6	175.6	166.5	157.5	148.5	139.4	130.4
147.5°	167.4	164.4	161.4	158.4	155.4	147.3	139.2	131.1	123.0	114.8	106.7
150°	137.5	134.9	132.4	129.8	127.3	120.2	113.1	106.1	99.0	91.9	84.8
152.5°	108.9	106.7	104.5	102.3	100.1	94.0	87.8	81.7	75.6	69.4	63.3
155°	82.6	81.0	79.3	77.7	76.1	70.9	65.7	60.5	55.3	50.0	44.8
157.5°	57.3	56.0	54.7	53.5	52.2	48.1	44.1	40.0	35.9	31.9	27.8
160°	33.9	33.0	32.1	31.1	30.2	27.8	25.3	22.9	20.5	18.0	15.6
162.5°	15.4	15.0	14.5	14.1	13.6	12.4	11.3	10.1	8.9	7.8	6.6
165°	4.2	4.2	4.2	4.2	4.2	3.8	3.5	3.1	2.8	2.4	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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	917.8	919.4	921.0	921.5	921.9	922.4	922.9	923.3	923.8	924.3	924.7
5°	899.6	901.4	903.3	904.3	905.4	906.4	907.5	908.5	909.6	910.6	911.7
7.5°	883.4	885.0	886.6	887.8	888.9	890.1	891.2	892.4	893.5	894.7	895.8
10°	870.7	871.8	873.0	873.8	874.6	875.4	876.2	877.1	877.9	878.7	879.5
12.5°	862.1	862.4	862.6	862.7	862.8	863.0	863.1	863.2	863.3	863.5	863.6
15°	859.9	857.6	855.3	854.1	853.0	851.8	850.7	849.5	848.4	847.2	846.1
17.5°	864.0	859.2	854.3	851.3	848.3	845.2	842.2	839.2	836.2	833.1	830.1
20°	873.0	867.3	861.6	855.7	849.8	843.9	838.0	832.0	826.1	820.2	814.3
22.5°	881.2	874.5	867.8	859.1	850.4	841.7	833.0	824.4	815.7	807.0	798.3
25°	889.9	882.0	874.1	862.5	850.9	839.3	827.7	816.2	804.6	793.0	781.4
27.5°	897.4	888.3	879.3	865.0	850.8	836.5	822.3	808.0	793.8	779.5	765.3
30°	903.9	893.7	883.5	867.0	850.6	834.1	817.7	801.2	784.8	768.3	751.9
32.5°	907.7	896.1	884.5	866.5	848.6	830.6	812.6	794.7	776.7	758.7	740.8
35°	912.6	899.6	886.6	867.1	847.7	828.2	808.7	789.3	769.8	750.3	730.9
37.5°	918.5	904.1	889.7	868.4	847.1	825.7	804.4	783.1	761.8	740.4	719.1
40°	923.3	907.6	891.8	868.9	845.9	823.0	800.0	777.1	754.1	731.2	708.2
42.5°	926.6	909.2	891.8	867.2	842.7	818.1	793.5	769.0	744.4	719.8	695.3
45°	930.0	910.9	891.8	865.5	839.2	812.9	786.6	760.2	733.9	707.6	681.3
47.5°	933.0	911.9	890.8	862.9	834.9	807.0	779.1	751.1	723.2	695.3	667.3
50°	935.1	911.9	888.7	859.0	829.4	799.7	770.0	740.4	710.7	681.0	651.4
52.5°	936.1	910.9	885.6	854.3	823.0	791.7	760.4	729.1	697.8	666.5	635.2
55°	937.1	909.8	882.4	849.5	816.6	783.7	750.8	717.8	684.9	652.0	619.1
57.5°	938.7	909.5	880.3	845.5	810.8	776.0	741.2	706.5	671.7	636.9	602.2
60°	938.3	907.3	876.2	839.7	803.2	766.7	730.2	693.6	657.1	620.6	584.1
62.5°	935.9	903.4	871.0	832.9	794.7	756.6	718.5	680.3	642.2	604.1	565.9
65°	930.7	897.2	863.7	823.7	783.7	743.7	703.7	663.8	623.8	583.8	543.8
67.5°	922.9	888.6	854.3	812.9	771.5	730.2	688.8	647.4	606.0	564.7	523.3
70°	908.5	874.1	839.7	797.4	755.1	712.8	670.5	628.1	585.8	543.5	501.2
72.5°	888.2	854.0	819.8	776.9	734.0	691.2	648.3	605.4	562.5	519.7	476.8
75°	859.9	826.3	792.7	749.8	706.9	664.1	621.2	578.3	535.4	492.6	449.7
77.5°	824.8	792.1	759.4	717.3	675.2	633.2	591.1	549.0	506.9	464.9	422.8
80°	787.2	755.5	723.9	682.9	641.8	600.8	559.8	518.7	477.7	436.7	395.6
82.5°	748.7	717.5	686.3	646.6	606.8	567.1	527.3	487.6	447.8	408.1	368.3
85°	710.9	680.9	650.9	612.4	573.9	535.5	497.0	458.5	420.0	381.6	343.1
87.5°	676.0	647.2	618.5	581.3	544.1	506.9	469.7	432.5	395.3	358.1	320.9
90°	649.5	622.0	594.5	558.3	522.2	486.0	449.9	413.7	377.6	341.4	305.3
92.5°	626.5	600.1	573.7	538.6	503.5	468.3	433.2	398.1	363.0	327.8	292.7
95°	603.8	578.3	552.8	518.4	484.0	449.5	415.1	380.7	346.3	311.8	277.4
97.5°	582.4	557.7	533.0	499.4	465.8	432.2	398.6	364.9	331.3	297.7	264.1
100°	559.6	535.9	512.1	479.3	446.5	413.7	380.9	348.2	315.4	282.6	249.8
102.5°	537.7	514.5	491.3	459.3	427.3	395.3	363.3	331.4	299.4	267.4	235.4
105°	514.8	492.1	469.4	438.3	407.3	376.2	345.1	314.1	283.0	251.9	220.9
107.5°	493.4	471.5	449.6	419.2	388.9	358.5	328.1	297.8	267.4	237.0	206.7
110°	470.9	449.8	428.7	399.1	369.6	340.0	310.5	280.9	251.4	221.8	192.3



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	447.4	427.1	406.8	378.2	349.6	320.9	292.3	263.7	235.1	206.4	177.8
115°	423.8	404.4	384.9	357.2	329.5	301.8	274.1	246.4	218.7	191.0	163.3
117.5°	399.5	380.7	361.9	335.2	308.6	281.9	255.3	228.6	202.0	175.3	148.7
120°	374.2	356.1	338.0	312.6	287.2	261.8	236.4	211.1	185.7	160.3	134.9
122.5°	348.1	330.5	312.9	288.9	264.9	240.9	216.9	193.0	169.0	145.0	121.0
125°	320.9	303.8	286.8	264.3	241.8	219.4	196.9	174.4	151.9	129.5	107.0
127.5°	295.3	279.1	262.9	241.7	220.5	199.3	178.1	156.8	135.6	114.4	93.2
130°	267.6	252.2	236.8	217.2	197.6	178.0	158.4	138.9	119.3	99.7	80.1
132.5°	241.5	227.2	212.8	194.7	176.6	158.6	140.5	122.4	104.3	86.3	68.2
135°	216.5	203.1	189.8	173.1	156.4	139.7	123.0	106.4	89.7	73.0	56.3
137.5°	191.5	179.2	166.9	151.8	136.8	121.7	106.6	91.6	76.5	61.4	46.4
140°	168.0	157.0	146.0	132.2	118.4	104.6	90.8	77.1	63.3	49.5	35.7
142.5°	144.3	134.2	124.1	111.9	99.8	87.6	75.4	63.3	51.1	38.9	26.8
145°	121.4	112.3	103.3	92.9	82.4	72.0	61.6	51.1	40.7	30.3	19.8
147.5°	98.6	90.5	82.4	74.1	65.7	57.4	49.0	40.7	32.3	24.0	15.6
150°	77.8	70.7	63.6	57.1	50.6	44.1	37.6	31.2	24.7	18.2	11.7
152.5°	57.2	51.0	44.9	40.3	35.6	31.0	26.3	21.7	17.0	12.4	7.7
155°	39.6	34.4	29.2	26.2	23.2	20.2	17.2	14.1	11.1	8.1	5.1
157.5°	23.7	19.7	15.6	14.0	12.4	10.7	9.1	7.5	5.9	4.2	2.6
160°	13.2	10.7	8.3	7.5	6.7	5.9	5.1	4.2	3.4	2.6	1.8
162.5°	5.4	4.3	3.1	2.9	2.6	2.4	2.2	1.9	1.7	1.5	1.2
165°	1.7	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	925.2	928.1	931.0	933.9	936.8	939.7	942.6	945.5	948.4	951.3	951.5
5°	912.7	916.5	920.3	924.2	928.0	931.8	935.6	939.5	943.3	947.1	948.6
7.5°	897.0	901.6	906.3	910.9	915.6	920.2	924.9	929.5	934.2	938.8	941.7
10°	880.3	885.8	891.2	896.7	902.1	907.6	913.0	918.5	923.9	929.4	933.7
12.5°	863.7	869.5	875.3	881.1	886.9	892.6	898.4	904.2	910.0	915.8	921.4
15°	844.9	851.0	857.2	863.3	869.5	875.6	881.8	887.9	894.1	900.2	907.3
17.5°	827.1	833.2	839.4	845.5	851.7	857.8	864.0	870.1	876.3	882.4	891.0
20°	808.4	814.2	820.0	825.8	831.6	837.3	843.1	848.9	854.7	860.5	870.7
22.5°	789.6	794.9	800.3	805.6	810.9	816.3	821.6	826.9	832.3	837.6	849.7
25°	769.8	774.4	779.1	783.7	788.3	793.0	797.6	802.2	806.9	811.5	825.3
27.5°	751.0	754.7	758.4	762.1	765.8	769.6	773.3	777.0	780.7	784.4	800.0
30°	735.4	737.6	739.8	742.0	744.2	746.4	748.6	750.8	753.0	755.2	772.9
32.5°	722.8	722.9	723.0	723.2	723.3	723.4	723.5	723.7	723.8	723.9	743.7
35°	711.4	709.1	706.8	704.4	702.1	699.8	697.5	695.1	692.8	690.5	712.9
37.5°	697.8	693.3	688.8	684.2	679.7	675.2	670.7	666.1	661.6	657.1	682.0
40°	685.3	678.3	671.4	664.4	657.5	650.5	643.6	636.6	629.7	622.7	650.3
42.5°	670.7	661.3	651.9	642.5	633.1	623.8	614.4	605.0	595.6	586.2	616.6
45°	655.0	643.3	631.6	619.9	608.2	596.5	584.8	573.1	561.4	549.7	582.5
47.5°	639.4	625.4	611.4	597.3	583.3	569.3	555.3	541.2	527.2	513.2	548.7
50°	621.7	605.6	589.5	573.4	557.3	541.1	525.0	508.9	492.8	476.7	514.7
52.5°	603.9	585.5	567.1	548.6	530.2	511.8	493.4	474.9	456.5	438.1	478.8
55°	586.2	565.6	544.9	524.3	503.7	483.0	462.4	441.8	421.1	400.5	443.5
57.5°	567.4	544.8	522.2	499.6	477.0	454.4	431.8	409.2	386.6	364.0	409.1
60°	547.6	523.1	498.7	474.2	449.8	425.3	400.9	376.4	352.0	327.5	374.6
62.5°	527.8	501.5	475.2	448.9	422.6	396.2	369.9	343.6	317.3	291.0	339.9
65°	503.8	476.1	448.4	420.7	393.0	365.3	337.6	309.9	282.2	254.5	305.0
67.5°	481.9	452.3	422.8	393.2	363.7	334.1	304.6	275.0	245.5	215.9	268.2
70°	458.9	428.1	397.3	366.4	335.6	304.8	274.0	243.1	212.3	181.5	234.9
72.5°	433.9	402.1	370.4	338.6	306.9	275.1	243.4	211.6	179.9	148.1	202.5
75°	406.8	374.6	342.4	310.1	277.9	245.7	213.5	181.2	149.0	116.8	171.6
77.5°	380.7	348.1	315.6	283.0	250.4	217.9	185.3	152.7	120.2	87.6	142.7
80°	354.6	322.0	289.5	256.9	224.3	191.8	159.2	126.6	94.1	61.5	116.3
82.5°	328.6	296.4	264.2	231.9	199.7	167.5	135.3	103.0	70.8	38.6	92.8
85°	304.6	273.0	241.3	209.7	178.0	146.4	114.7	83.1	51.4	19.8	73.0
87.5°	283.7	252.9	222.1	191.2	160.4	129.6	98.8	67.9	37.1	6.3	58.1
90°	269.1	239.3	209.5	179.7	149.9	120.2	90.4	60.6	30.8	1.0	50.8
92.5°	257.6	229.0	200.4	171.7	143.1	114.5	85.9	57.2	28.6	0.0	48.1
95°	243.0	216.1	189.2	162.3	135.4	108.6	81.7	54.8	27.9	1.0	47.0
97.5°	230.5	204.9	179.3	153.7	128.1	102.4	76.8	51.2	25.6	0.0	44.0
100°	217.0	193.0	169.0	145.0	121.0	97.0	73.0	49.0	25.0	1.0	42.8
102.5°	203.4	180.9	158.4	135.9	113.4	91.0	68.5	46.0	23.5	1.0	41.1
105°	189.8	168.8	147.8	126.9	105.9	84.9	63.9	43.0	22.0	1.0	38.7
107.5°	176.3	156.8	137.3	117.9	98.4	78.9	59.4	40.0	20.5	1.0	36.7
110°	162.7	144.7	126.8	108.8	90.8	72.9	54.9	36.9	19.0	1.0	34.4





TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	149.2	132.7	116.3	99.8	83.3	66.9	50.4	33.9	17.5	1.0	31.9
115°	135.6	120.6	105.7	90.7	75.8	60.8	45.9	30.9	16.0	1.0	29.4
117.5°	122.0	108.6	95.1	81.7	68.2	54.8	41.3	27.9	14.4	1.0	26.8
120°	109.5	97.4	85.4	73.3	61.3	49.2	37.2	25.1	13.1	1.0	24.4
122.5°	97.0	86.3	75.7	65.0	54.3	43.7	33.0	22.3	11.7	1.0	22.0
125°	84.5	75.2	65.9	56.7	47.4	38.1	28.8	19.6	10.3	1.0	19.4
127.5°	72.0	64.1	56.2	48.3	40.4	32.6	24.7	16.8	8.9	1.0	16.5
130°	60.5	53.9	47.3	40.7	34.1	27.4	20.8	14.2	7.6	1.0	13.9
132.5°	50.1	44.6	39.2	33.7	28.3	22.8	17.4	11.9	6.5	1.0	11.3
135°	39.6	35.3	31.0	26.7	22.4	18.2	13.9	9.6	5.3	1.0	9.0
137.5°	31.3	27.9	24.6	21.2	17.8	14.5	11.1	7.7	4.4	1.0	7.1
140°	21.9	19.6	17.3	14.9	12.6	10.3	8.0	5.6	3.3	1.0	5.3
142.5°	14.6	13.1	11.6	10.1	8.6	7.0	5.5	4.0	2.5	1.0	4.1
145°	9.4	8.5	7.5	6.6	5.7	4.7	3.8	2.9	1.9	1.0	3.0
147.5°	7.3	6.6	5.9	5.2	4.5	3.8	3.1	2.4	1.7	1.0	2.4
150°	5.2	4.7	4.3	3.8	3.3	2.9	2.4	1.9	1.5	1.0	1.9
152.5°	3.1	2.9	2.6	2.4	2.2	1.9	1.7	1.5	1.2	1.0	1.7
155°	2.1	2.0	1.9	1.7	1.6	1.5	1.4	1.2	1.1	1.0	1.5
157.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.2
160°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.1
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	1.9
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°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	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°	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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	951.8	952.0	952.2	952.5	952.7	952.9	953.2	953.4	954.3	955.2	956.2
5°	950.1	951.6	953.1	954.7	956.2	957.7	959.2	960.7	962.9	965.1	967.3
7.5°	944.6	947.5	950.4	953.2	956.1	959.0	961.9	964.8	968.4	972.0	975.6
10°	938.0	942.3	946.6	950.8	955.1	959.4	963.7	968.0	973.0	978.0	982.9
12.5°	926.9	932.5	938.1	943.6	949.2	954.8	960.3	965.9	972.7	979.6	986.4
15°	914.3	921.4	928.5	935.5	942.6	949.7	956.7	963.8	972.5	981.2	989.9
17.5°	899.6	908.1	916.7	925.3	933.9	942.4	951.0	959.6	970.7	981.9	993.0
20°	880.9	891.1	901.3	911.5	921.7	931.9	942.1	952.3	966.3	980.3	994.4
22.5°	861.7	873.8	885.8	897.9	909.9	922.0	934.0	946.1	963.2	980.4	997.5
25°	839.1	852.9	866.7	880.4	894.2	908.0	921.8	935.6	956.2	976.9	997.5
27.5°	815.7	831.3	847.0	862.6	878.3	893.9	909.6	925.2	949.3	973.4	997.5
30°	790.7	808.4	826.1	843.9	861.6	879.3	897.1	914.8	942.0	969.3	996.5
32.5°	763.5	783.3	803.1	823.0	842.8	862.6	882.4	902.2	932.6	962.9	993.3
35°	735.2	757.6	780.0	802.3	824.7	847.1	869.4	891.8	925.1	958.3	991.6
37.5°	706.9	731.9	756.8	781.7	806.6	831.6	856.5	881.4	917.4	953.5	989.5
40°	677.9	705.5	733.1	760.6	788.2	815.8	843.4	871.0	909.7	948.4	987.1
42.5°	646.9	677.3	707.7	738.0	768.4	798.8	829.1	859.5	900.8	942.0	983.3
45°	615.3	648.1	680.9	713.7	746.5	779.3	812.1	844.9	888.9	933.0	977.0
47.5°	584.1	619.6	655.1	690.5	726.0	761.5	796.9	832.4	878.6	924.9	971.1
50°	552.7	590.7	628.7	666.8	704.8	742.8	780.8	818.8	867.2	915.7	964.1
52.5°	519.5	560.1	600.8	641.5	682.2	722.8	763.5	804.2	854.6	905.0	955.4
55°	486.5	529.5	572.5	615.5	658.5	701.5	744.5	787.5	840.0	892.5	945.0
57.5°	454.2	499.3	544.4	589.4	634.5	679.6	724.7	769.8	824.5	879.2	933.9
60°	421.6	468.7	515.7	562.8	609.8	656.9	703.9	751.0	807.7	864.4	921.0
62.5°	388.8	437.7	486.6	535.6	584.5	633.4	682.3	731.2	789.8	848.5	907.1
65°	355.6	406.1	456.6	507.2	557.7	608.2	658.8	709.3	769.9	830.5	891.1
67.5°	320.4	372.7	425.0	477.2	529.5	581.8	634.0	686.3	748.8	811.2	873.7
70°	288.3	341.8	395.2	448.6	502.0	555.5	608.9	662.3	726.3	790.3	854.2
72.5°	256.8	311.2	365.5	419.9	474.2	528.6	582.9	637.3	702.1	766.9	831.7
75°	226.4	281.3	336.1	390.9	445.7	500.6	555.4	610.2	675.7	741.2	806.6
77.5°	197.7	252.8	307.8	362.9	417.9	473.0	528.0	583.1	648.6	714.1	779.5
80°	171.1	226.0	280.8	335.6	390.4	445.3	500.1	554.9	620.0	685.2	750.3
82.5°	147.1	201.3	255.5	309.8	364.0	418.2	472.5	526.7	591.3	655.8	720.4
85°	126.2	179.4	232.6	285.8	339.0	392.2	445.4	498.6	562.3	626.1	689.8
87.5°	109.9	161.7	213.5	265.3	317.1	368.9	420.7	472.5	535.1	597.7	660.3
90°	100.7	150.5	200.4	250.2	300.1	349.9	399.8	449.6	510.8	572.0	633.2
92.5°	96.2	144.3	192.4	240.5	288.6	336.7	384.8	432.9	492.9	553.0	613.0
95°	93.0	139.0	185.0	231.1	277.1	323.1	369.1	415.1	474.2	533.3	592.4
97.5°	88.1	132.1	176.2	220.2	264.3	308.3	352.4	396.4	454.7	513.0	571.3
100°	84.7	126.5	168.4	210.2	252.1	293.9	335.8	377.6	435.0	492.3	549.7
102.5°	81.2	121.3	161.4	201.5	241.6	281.7	321.8	361.9	418.0	474.1	530.2
105°	76.3	114.0	151.7	189.3	227.0	264.7	302.3	340.0	395.2	450.3	505.5
107.5°	72.4	108.1	143.8	179.5	215.2	250.9	286.6	322.3	376.0	429.6	483.3
110°	67.8	101.1	134.5	167.9	201.3	234.6	268.0	301.4	353.7	406.0	458.2



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	62.9	93.8	124.8	155.7	186.7	217.6	248.6	279.5	330.5	381.5	432.5
115°	57.8	86.2	114.6	143.0	171.4	199.8	228.2	256.6	306.3	356.0	405.8
117.5°	52.7	78.5	104.4	130.2	156.1	181.9	207.8	233.6	281.7	329.8	377.9
120°	47.8	71.2	94.6	118.1	141.5	164.9	188.3	211.7	258.2	304.7	351.1
122.5°	43.0	63.9	84.9	105.9	126.9	147.8	168.8	189.8	234.4	279.0	323.7
125°	37.9	56.3	74.7	93.2	111.6	130.0	148.5	166.9	209.4	252.0	294.5
127.5°	32.1	47.6	63.1	78.7	94.2	109.7	125.3	140.8	180.9	221.0	261.1
130°	26.7	39.6	52.5	65.3	78.2	91.1	103.9	116.8	153.2	189.6	226.0
132.5°	21.6	32.0	42.3	52.6	62.9	73.3	83.6	93.9	126.7	159.5	192.3
135°	17.0	25.0	33.0	41.0	49.0	57.0	65.0	73.0	102.4	131.9	161.3
137.5°	13.3	19.4	25.6	31.7	37.9	44.0	50.2	56.3	82.4	108.5	134.5
140°	9.6	13.9	18.2	22.4	26.7	31.0	35.3	39.6	62.4	85.3	108.1
142.5°	7.3	10.4	13.5	16.7	19.8	22.9	26.1	29.2	48.7	68.1	87.6
145°	5.0	6.9	8.9	10.9	12.9	14.8	16.8	18.8	35.3	51.7	68.2
147.5°	3.8	5.2	6.6	8.0	9.4	10.8	12.2	13.6	26.8	40.0	53.2
150°	2.9	3.8	4.7	5.7	6.6	7.5	8.5	9.4	19.5	29.6	39.6
152.5°	2.4	3.1	3.8	4.5	5.2	5.9	6.6	7.3	14.6	21.9	29.2
155°	1.9	2.4	2.9	3.3	3.8	4.3	4.7	5.2	9.8	14.5	19.1
157.5°	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	5.8	8.4	11.1
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.5	4.9	6.3
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°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.2	0.5	0.7
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°	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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	957.1	958.0	958.9	959.9	960.8	961.7	962.2	962.6	963.1	963.6	964.0
5°	969.5	971.7	973.9	976.1	978.3	980.5	981.7	982.8	984.0	985.1	986.3
7.5°	979.2	982.8	986.4	990.0	993.6	997.2	999.4	1001.6	1003.8	1006.0	1008.2
10°	987.9	992.9	997.9	1002.8	1007.8	1012.8	1016.5	1020.2	1023.9	1027.6	1031.4
12.5°	993.2	1000.1	1006.9	1013.7	1020.6	1027.4	1032.6	1037.8	1043.1	1048.3	1053.5
15°	998.6	1007.2	1015.9	1024.6	1033.3	1042.0	1049.2	1056.4	1063.6	1070.8	1077.9
17.5°	1004.1	1015.3	1026.4	1037.5	1048.7	1059.8	1069.6	1079.5	1089.3	1099.2	1109.0
20°	1008.4	1022.4	1036.4	1050.5	1064.5	1078.5	1090.6	1102.6	1114.7	1126.7	1138.8
22.5°	1014.7	1031.8	1049.0	1066.1	1083.3	1100.4	1114.1	1127.8	1141.4	1155.1	1168.8
25°	1018.1	1038.8	1059.4	1080.0	1100.7	1121.3	1136.8	1152.4	1167.9	1183.4	1199.0
27.5°	1021.6	1045.8	1069.9	1094.0	1118.1	1142.2	1159.2	1176.3	1193.3	1210.3	1227.4
30°	1023.7	1051.0	1078.2	1105.4	1132.7	1159.9	1178.7	1197.5	1216.2	1235.0	1253.8
32.5°	1023.7	1054.0	1084.4	1114.8	1145.1	1175.5	1196.1	1216.8	1237.4	1258.0	1278.7
35°	1024.9	1058.1	1091.4	1124.7	1157.9	1191.2	1213.8	1236.4	1259.0	1281.6	1304.2
37.5°	1025.6	1061.6	1097.7	1133.7	1169.8	1205.8	1230.4	1254.9	1279.5	1304.1	1328.6
40°	1025.8	1064.5	1103.2	1141.9	1180.6	1219.3	1245.8	1272.4	1298.9	1325.5	1352.0
42.5°	1024.5	1065.8	1107.0	1148.3	1189.5	1230.8	1259.3	1287.8	1316.3	1344.8	1373.4
45°	1021.0	1065.1	1109.1	1153.1	1197.2	1241.2	1271.9	1302.6	1333.4	1364.1	1394.8
47.5°	1017.3	1063.6	1109.8	1156.0	1202.3	1248.5	1281.8	1315.0	1348.3	1381.6	1414.8
50°	1012.6	1061.0	1109.5	1157.9	1206.4	1254.8	1290.5	1326.2	1361.9	1397.6	1433.3
52.5°	1005.8	1056.3	1106.7	1157.1	1207.5	1257.9	1296.4	1334.9	1373.3	1411.8	1450.3
55°	997.5	1050.0	1102.5	1155.0	1207.5	1260.0	1300.8	1341.6	1382.4	1423.2	1464.0
57.5°	988.6	1043.3	1098.0	1152.7	1207.4	1262.1	1305.2	1348.3	1391.4	1434.5	1477.7
60°	977.7	1034.4	1091.1	1147.7	1204.4	1261.1	1306.3	1351.5	1396.7	1441.9	1487.1
62.5°	965.8	1024.4	1083.1	1141.7	1200.4	1259.0	1305.9	1352.9	1399.8	1446.7	1493.7
65°	951.7	1012.4	1073.0	1133.6	1194.2	1254.8	1303.1	1351.5	1399.8	1448.1	1496.5
67.5°	936.2	998.6	1061.1	1123.6	1186.0	1248.5	1297.9	1347.3	1396.6	1446.0	1495.4
70°	918.2	982.2	1046.2	1110.1	1174.1	1238.1	1288.4	1338.7	1389.0	1439.3	1489.6
72.5°	896.5	961.2	1026.0	1090.8	1155.6	1220.4	1271.4	1322.4	1373.4	1424.4	1475.3
75°	872.1	937.6	1003.1	1068.5	1134.0	1199.5	1250.8	1302.2	1353.5	1404.9	1456.2
77.5°	845.0	910.5	976.0	1041.4	1106.9	1172.4	1223.5	1274.6	1325.7	1376.8	1428.0
80°	815.4	880.6	945.7	1010.8	1076.0	1141.1	1191.7	1242.4	1293.0	1343.7	1394.3
82.5°	784.9	849.5	914.0	978.6	1043.1	1107.7	1158.0	1208.3	1258.6	1308.9	1359.2
85°	753.6	817.3	881.1	944.8	1008.6	1072.3	1121.3	1170.3	1219.4	1268.4	1317.4
87.5°	722.9	785.4	848.0	910.6	973.2	1035.8	1084.1	1132.4	1180.8	1229.1	1277.4
90°	694.4	755.5	816.7	877.9	939.1	1000.3	1047.1	1093.9	1140.8	1187.6	1234.4
92.5°	673.0	733.1	793.1	853.1	913.2	973.2	1018.7	1064.3	1109.8	1155.4	1200.9
95°	651.5	710.7	769.8	828.9	888.0	947.1	992.0	1036.8	1081.7	1126.5	1171.4
97.5°	629.6	687.8	746.1	804.4	862.7	921.0	964.7	1008.4	1052.1	1095.8	1139.5
100°	607.1	664.4	721.8	779.2	836.5	893.9	936.2	978.5	1020.8	1063.1	1105.4
102.5°	586.3	642.4	698.5	754.6	810.7	866.8	908.3	949.8	991.3	1032.8	1074.2
105°	560.7	615.8	671.0	726.2	781.3	836.5	877.3	918.1	958.9	999.7	1040.5
107.5°	536.9	590.6	644.2	697.9	751.5	805.2	845.3	885.4	925.5	965.6	1005.7
110°	510.5	562.8	615.1	667.3	719.6	771.9	811.1	850.2	889.4	928.6	967.7



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	483.5	534.5	585.5	636.5	687.5	738.5	776.6	814.8	852.9	891.0	929.2
115°	455.5	505.2	554.9	604.7	654.4	704.1	741.2	778.3	815.3	852.4	889.5
117.5°	426.0	474.1	522.2	570.3	618.4	666.5	702.5	738.6	774.6	810.7	846.7
120°	397.6	444.1	490.6	537.0	583.5	630.0	664.5	699.1	733.6	768.1	802.7
122.5°	368.3	412.9	457.5	502.2	546.8	591.4	624.7	657.9	691.2	724.5	757.7
125°	337.0	379.6	422.1	464.6	507.2	549.7	581.6	613.4	645.3	677.2	709.0
127.5°	301.2	341.3	381.4	421.5	461.6	501.7	532.9	564.1	595.2	626.4	657.6
130°	262.4	298.7	335.1	371.5	407.9	444.3	475.7	507.1	538.5	569.9	601.4
132.5°	225.1	257.9	290.7	323.5	356.3	389.1	420.3	451.4	482.6	513.8	544.9
135°	190.8	220.2	249.7	279.1	308.6	338.0	368.1	398.2	428.4	458.5	488.6
137.5°	160.6	186.7	212.8	238.8	264.9	291.0	318.9	346.9	374.8	402.7	430.7
140°	130.9	153.8	176.6	199.4	222.3	245.1	270.3	295.4	320.6	345.7	370.9
142.5°	107.1	126.5	146.0	165.5	184.9	204.4	226.7	248.9	271.2	293.4	315.7
145°	84.6	101.1	117.5	134.0	150.4	166.9	186.1	205.4	224.6	243.8	263.1
147.5°	66.4	79.7	92.9	106.1	119.3	132.5	149.0	165.4	181.9	198.3	214.8
150°	49.7	59.8	69.9	79.9	90.0	100.1	113.8	127.5	141.1	154.8	168.5
152.5°	36.5	43.8	51.1	58.4	65.7	73.0	84.1	95.2	106.4	117.5	128.6
155°	23.7	28.4	33.0	37.6	42.3	46.9	55.8	64.8	73.7	82.6	91.6
157.5°	13.8	16.4	19.1	21.8	24.4	27.1	33.8	40.5	47.3	54.0	60.7
160°	7.7	9.0	10.4	11.8	13.2	14.6	18.9	23.2	27.5	31.8	36.0
162.5°	3.8	4.5	5.2	5.9	6.6	7.3	9.4	11.5	13.6	15.7	17.7
165°	0.9	1.2	1.4	1.6	1.9	2.1	2.9	3.7	4.5	5.3	6.2
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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	964.5	965.0	965.4	965.9	964.9	963.8	962.8	961.7	960.7	959.6	958.6
5°	987.4	988.6	989.7	990.9	990.8	990.7	990.6	990.5	990.3	990.2	990.1
7.5°	1010.4	1012.6	1014.8	1017.0	1017.2	1017.5	1017.7	1017.9	1018.2	1018.4	1018.6
10°	1035.1	1038.8	1042.5	1046.2	1046.7	1047.1	1047.6	1048.1	1048.5	1049.0	1049.5
12.5°	1058.7	1064.0	1069.2	1074.4	1075.8	1077.2	1078.6	1080.0	1081.3	1082.7	1084.1
15°	1085.1	1092.3	1099.5	1106.7	1109.2	1111.8	1114.3	1116.9	1119.4	1122.0	1124.5
17.5°	1118.9	1128.7	1138.6	1148.4	1151.5	1154.7	1157.8	1160.9	1164.1	1167.2	1170.3
20°	1150.8	1162.9	1174.9	1187.0	1190.8	1194.6	1198.5	1202.3	1206.1	1209.9	1213.8
22.5°	1182.5	1196.1	1209.8	1223.5	1228.1	1232.8	1237.4	1242.0	1246.7	1251.3	1255.9
25°	1214.5	1230.0	1245.6	1261.1	1266.3	1271.5	1276.7	1281.9	1287.2	1292.4	1297.6
27.5°	1244.4	1261.4	1278.5	1295.5	1301.5	1307.5	1313.6	1319.6	1325.6	1331.6	1337.7
30°	1272.6	1291.3	1310.1	1328.9	1335.7	1342.6	1349.4	1356.2	1363.1	1369.9	1376.7
32.5°	1299.3	1319.9	1340.6	1361.2	1369.2	1377.2	1385.2	1393.2	1401.2	1409.2	1417.2
35°	1326.8	1349.4	1372.0	1394.6	1403.4	1412.2	1421.0	1429.8	1438.6	1447.4	1456.2
37.5°	1353.2	1377.8	1402.3	1426.9	1436.6	1446.4	1456.1	1465.8	1475.6	1485.3	1495.0
40°	1378.6	1405.1	1431.7	1458.2	1469.0	1479.8	1490.5	1501.3	1512.1	1522.9	1533.6
42.5°	1401.9	1430.4	1458.9	1487.4	1499.3	1511.3	1523.2	1535.1	1547.1	1559.0	1570.9
45°	1425.5	1456.3	1487.0	1517.7	1530.7	1543.7	1556.6	1569.6	1582.6	1595.6	1608.5
47.5°	1448.1	1481.4	1514.6	1547.9	1561.9	1575.9	1590.0	1604.0	1618.0	1632.0	1646.1
50°	1469.0	1504.7	1540.4	1576.1	1591.3	1606.5	1621.6	1636.8	1652.0	1667.2	1682.3
52.5°	1488.8	1527.2	1565.7	1604.2	1620.3	1636.4	1652.5	1668.6	1684.8	1700.9	1717.0
55°	1504.8	1545.6	1586.4	1627.2	1644.5	1661.7	1679.0	1696.3	1713.5	1730.8	1748.1
57.5°	1520.8	1563.9	1607.0	1650.1	1668.1	1686.0	1704.0	1722.0	1739.9	1757.9	1775.9
60°	1532.3	1577.5	1622.7	1667.9	1686.6	1705.2	1723.9	1742.5	1761.2	1779.8	1798.5
62.5°	1540.6	1587.5	1634.5	1681.4	1700.5	1719.6	1738.8	1757.9	1777.0	1796.1	1815.3
65°	1544.8	1593.1	1641.5	1689.8	1709.3	1728.7	1748.2	1767.7	1787.1	1806.6	1826.1
67.5°	1544.8	1594.1	1643.5	1692.9	1712.5	1732.1	1751.7	1771.3	1790.8	1810.4	1830.0
70°	1539.9	1590.2	1640.5	1690.8	1710.4	1730.0	1749.6	1769.2	1788.7	1808.3	1827.9
72.5°	1526.3	1577.3	1628.3	1679.3	1699.0	1718.7	1738.4	1758.1	1777.9	1797.6	1817.3
75°	1507.6	1558.9	1610.3	1661.6	1681.1	1700.5	1720.0	1739.5	1758.9	1778.4	1797.9
77.5°	1479.1	1530.2	1581.3	1632.4	1651.8	1671.1	1690.5	1709.8	1729.2	1748.5	1767.9
80°	1445.0	1495.6	1546.3	1596.9	1616.1	1635.4	1654.6	1673.9	1693.1	1712.4	1731.6
82.5°	1409.5	1459.8	1510.1	1560.4	1578.9	1597.5	1616.0	1634.6	1653.1	1671.7	1690.2
85°	1366.4	1415.5	1464.5	1513.5	1532.2	1550.8	1569.5	1588.1	1606.8	1625.4	1644.1
87.5°	1325.7	1374.1	1422.4	1470.7	1488.7	1506.6	1524.6	1542.6	1560.5	1578.5	1596.5
90°	1281.2	1328.1	1374.9	1421.7	1439.9	1458.1	1476.3	1494.5	1512.7	1530.9	1549.1
92.5°	1246.5	1292.0	1337.6	1383.1	1400.8	1418.6	1436.3	1454.0	1471.8	1489.5	1507.2
95°	1216.2	1261.1	1305.9	1350.8	1367.4	1383.9	1400.5	1417.1	1433.6	1450.2	1466.8
97.5°	1183.2	1226.9	1270.6	1314.3	1330.4	1346.5	1362.6	1378.7	1394.8	1410.9	1427.0
100°	1147.7	1190.0	1232.3	1274.6	1290.7	1306.8	1322.9	1339.0	1355.2	1371.3	1387.4
102.5°	1115.7	1157.2	1198.7	1240.2	1256.0	1271.7	1287.5	1303.3	1319.0	1334.8	1350.6
105°	1081.3	1122.1	1162.9	1203.7	1219.1	1234.5	1249.9	1265.3	1280.8	1296.2	1311.6
107.5°	1045.8	1085.9	1126.0	1166.1	1181.3	1196.5	1211.7	1226.9	1242.0	1257.2	1272.4
110°	1006.9	1046.1	1085.2	1124.4	1139.2	1154.1	1168.9	1183.7	1198.6	1213.4	1228.2



TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-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°	967.3	1005.4	1043.6	1081.7	1096.2	1110.7	1125.1	1139.6	1154.1	1168.6	1183.0
115°	926.6	963.6	1000.7	1037.8	1051.7	1065.6	1079.5	1093.4	1107.4	1121.3	1135.2
117.5°	882.8	918.8	954.9	990.9	1004.3	1017.8	1031.2	1044.7	1058.1	1071.6	1085.0
120°	837.2	871.7	906.3	940.8	954.0	967.2	980.5	993.7	1006.9	1020.1	1033.4
122.5°	791.0	824.3	857.5	890.8	903.5	916.3	929.0	941.8	954.5	967.3	980.0
125°	740.9	772.8	804.6	836.5	848.7	860.9	873.0	885.2	897.4	909.6	921.7
127.5°	688.8	719.9	751.1	782.3	793.8	805.3	816.7	828.2	839.7	851.2	862.6
130°	632.8	664.2	695.6	727.0	737.9	748.8	759.7	770.6	781.5	792.4	803.3
132.5°	576.1	607.3	638.4	669.6	680.7	691.9	703.0	714.1	725.3	736.4	747.5
135°	518.7	548.9	579.0	609.1	619.8	630.4	641.1	651.8	662.4	673.1	683.8
137.5°	458.6	486.5	514.5	542.4	553.2	564.0	574.7	585.5	596.3	607.1	617.8
140°	396.0	421.2	446.3	471.5	482.6	493.7	504.9	516.0	527.1	538.2	549.4
142.5°	337.9	360.2	382.4	404.7	416.1	427.4	438.8	450.1	461.5	472.8	484.2
145°	282.3	301.5	320.8	340.0	351.8	363.6	375.5	387.3	399.1	410.9	422.8
147.5°	231.2	247.7	264.1	280.6	292.4	304.2	316.1	327.9	339.7	351.5	363.4
150°	182.2	195.8	209.5	223.2	235.0	246.8	258.7	270.5	282.3	294.1	306.0
152.5°	139.7	150.9	162.0	173.1	184.2	195.4	206.5	217.6	228.8	239.9	251.0
155°	100.5	109.4	118.4	127.3	137.1	147.0	156.8	166.7	176.5	186.4	196.2
157.5°	67.4	74.2	80.9	87.6	96.1	104.5	113.0	121.5	129.9	138.4	146.9
160°	40.3	44.6	48.9	53.2	60.0	66.9	73.7	80.5	87.4	94.2	101.0
162.5°	19.8	21.9	24.0	26.1	30.7	35.4	40.0	44.6	49.3	53.9	58.5
165°	7.0	7.8	8.6	9.4	12.2	15.0	17.7	20.5	23.3	26.1	28.8
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: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	936.7	936.7
2.5°	957.5	956.5
5°	990.0	989.9
7.5°	1018.9	1019.1
10°	1049.9	1050.4
12.5°	1085.5	1086.9
15°	1127.1	1129.6
17.5°	1173.5	1176.6
20°	1217.6	1221.4
22.5°	1260.6	1265.2
25°	1302.8	1308.0
27.5°	1343.7	1349.7
30°	1383.6	1390.4
32.5°	1425.2	1433.2
35°	1465.0	1473.8
37.5°	1504.8	1514.5
40°	1544.4	1555.2
42.5°	1582.9	1594.8
45°	1621.5	1634.5
47.5°	1660.1	1674.1
50°	1697.5	1712.7
52.5°	1733.1	1749.2
55°	1765.3	1782.6
57.5°	1793.8	1811.8
60°	1817.1	1835.8
62.5°	1834.4	1853.5
65°	1845.5	1865.0
67.5°	1849.6	1869.2
70°	1847.5	1867.1
72.5°	1837.0	1856.7
75°	1817.3	1836.8
77.5°	1787.2	1806.6
80°	1750.9	1770.1
82.5°	1708.8	1727.3
85°	1662.7	1681.4
87.5°	1614.4	1632.4
90°	1567.3	1585.5
92.5°	1525.0	1542.7
95°	1483.3	1499.9
97.5°	1443.1	1459.2
100°	1403.5	1419.6
102.5°	1366.3	1382.1
105°	1327.0	1342.4
107.5°	1287.6	1302.8
110°	1243.1	1257.9





TEST NUMBER: P201362

CATALOG NUMBER: 4LBLED-LD4-8-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1197.5	1212.0
115°	1149.1	1163.0
117.5°	1098.5	1111.9
120°	1046.6	1059.8
122.5°	992.8	1005.5
125°	933.9	946.1
127.5°	874.1	885.6
130°	814.2	825.1
132.5°	758.7	769.8
135°	694.4	705.1
137.5°	628.6	639.4
140°	560.5	571.6
142.5°	495.5	506.9
145°	434.6	446.4
147.5°	375.2	387.0
150°	317.8	329.6
152.5°	262.2	273.3
155°	206.1	215.9
157.5°	155.3	163.8
160°	107.9	114.7
162.5°	63.2	67.8
165°	31.6	34.4
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)