

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: P201344

Luminaire Tested: **4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28235)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U  
Description: 4 ft. Low Bay Linear, 7000 lm, Frst Asym lens, 5K  
Light Source: (308) 5000K CCT, 80 CRI LEDS  
2UT217098A8504C, 2UT217056A8504B  
Ballast/Driver: OSRAM  
OT50W0800CC, OT30W0440CC

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8042.5 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 2.01 / 1.17 / 1.78  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct

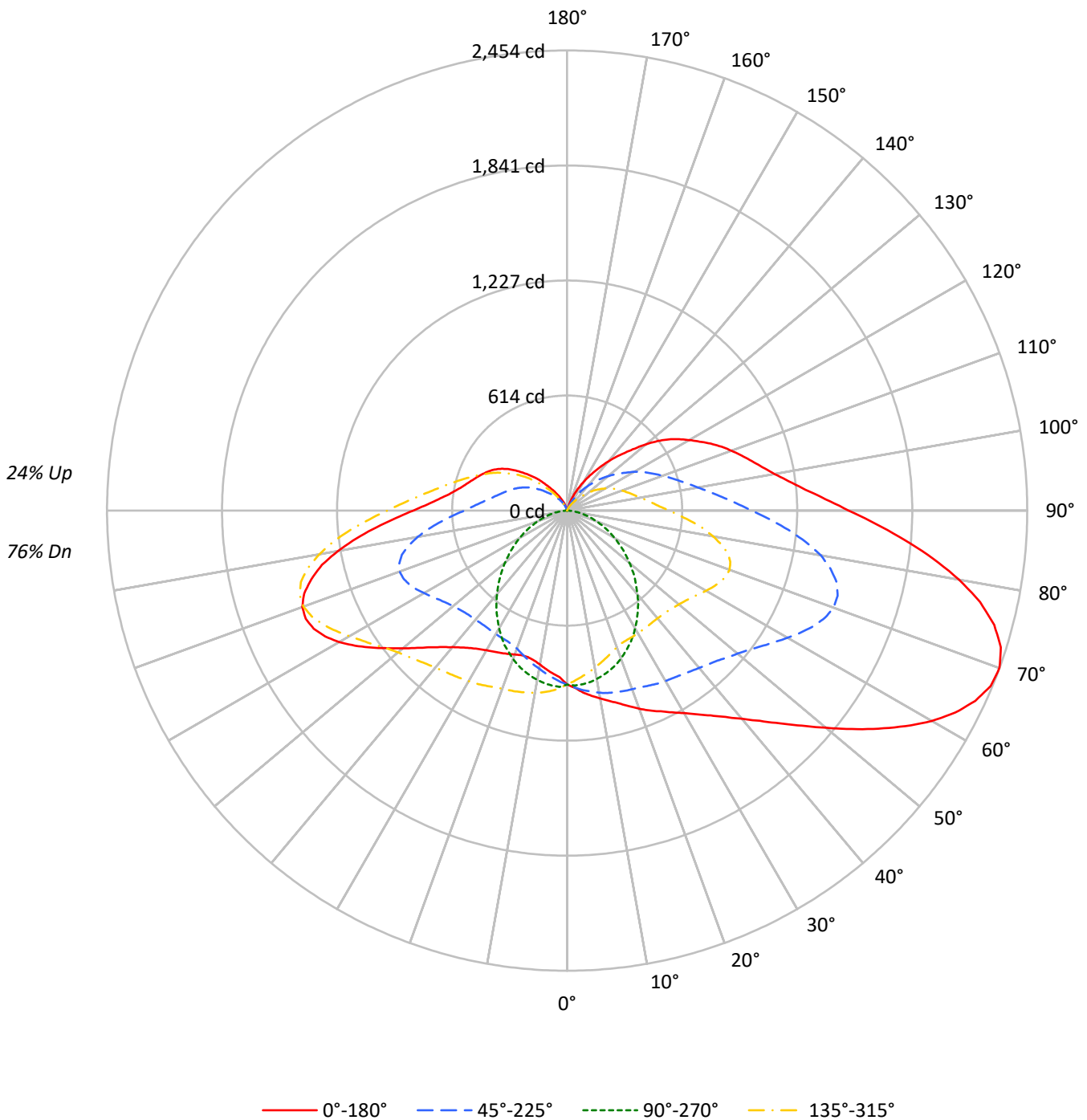
Input Watts (W): 56.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14944	14944	14944	14944
5°	14202	14978	12729	15081
10°	13636	14780	11185	14871
15°	13305	14510	10115	14571
20°	13262	14140	9640	14172
25°	13289	13666	9418	13731
30°	13500	13100	9305	13100
35°	14013	12445	9403	12445
40°	14909	11739	9777	11720
45°	16282	11069	10456	10989
50°	18182	10245	11528	10202
55°	20495	9459	12873	9409
60°	22907	8636	14322	8636
65°	24938	7794	15488	7824
70°	26143	6843	16017	6880
75°	25994	5850	15568	5897
80°	24429	4586	14279	4787
85°	21944	2899	12378	3224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	1.1
10°-20°	256.9	3.2
20°-30°	414.4	5.2
30°-40°	561.7	7.0
40°-50°	721.7	9.0
50°-60°	923.0	11.5
60°-70°	1127.4	14.0
70°-80°	1151.1	14.3
80°-90°	902.7	11.2
90°-100°	630.0	7.8
100°-110°	469.6	5.8
110°-120°	351.5	4.4
120°-130°	238.4	3.0
130°-140°	131.6	1.6
140°-150°	56.2	0.7
150°-160°	16.6	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	759.3	9.4
0°-40°	1321.0	16.4
0°-60°	2965.8	36.9
0°-90°	6147.0	76.4
90°-120°	1451.1	18.0
90°-150°	1877.3	23.3
90°-180°	1895.0	23.6
0°-180°	8042.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	974	930	873	937	974	94
15°	1064	882	809	886	1064	304
25°	1182	787	837	791	1182	550
35°	1334	656	895	656	1334	844
45°	1604	511	1030	507	1604	1252
55°	2027	362	1273	360	2027	1821
65°	2401	227	1491	228	2401	2366
75°	2358	112	1412	113	2358	2466
85°	1808	25	1020	28	1808	1542
90°	1501	0	820	0	1501	826
95°	1276	0	688	0	1276	1013
105°	1019	0	554	1	1019	1082
115°	845	0	480	1	845	838
125°	662	0	386	1	662	592
135°	437	0	254	1	437	343
145°	254	0	134	1	254	163
155°	112	0	59	2	112	54
165°	16	0	9	2	16	6
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	945.9	945.5	945.1	944.7	944.3	943.8	943.4	943.0	942.6	942.2	942.5
5°	973.7	972.7	971.7	970.6	969.6	968.6	967.6	966.5	965.5	964.5	964.1
7.5°	996.0	994.8	993.5	992.3	991.1	989.8	988.6	987.4	986.1	984.9	983.7
10°	1016.4	1014.5	1012.7	1010.8	1009.0	1007.1	1005.3	1003.4	1001.6	999.7	998.3
12.5°	1039.6	1037.2	1034.9	1032.5	1030.1	1027.8	1025.4	1023.0	1020.7	1018.3	1015.8
15°	1063.7	1061.0	1058.3	1055.7	1053.0	1050.3	1047.6	1045.0	1042.3	1039.6	1035.6
17.5°	1093.4	1089.7	1086.0	1082.3	1078.6	1074.8	1071.1	1067.4	1063.7	1060.0	1054.3
20°	1124.0	1119.5	1114.9	1110.4	1105.9	1101.3	1096.8	1092.3	1087.7	1083.2	1075.5
22.5°	1154.6	1149.3	1144.1	1138.8	1133.6	1128.3	1123.1	1117.8	1112.6	1107.3	1097.6
25°	1181.5	1176.1	1170.8	1165.4	1160.0	1154.7	1149.3	1143.9	1138.6	1133.2	1121.8
27.5°	1213.0	1207.0	1201.0	1195.1	1189.1	1183.1	1177.1	1171.2	1165.2	1159.2	1146.0
30°	1247.3	1240.4	1233.5	1226.6	1219.7	1212.8	1205.9	1199.0	1192.1	1185.2	1170.1
32.5°	1288.1	1280.0	1271.8	1263.7	1255.6	1247.4	1239.3	1231.2	1223.0	1214.9	1197.4
35°	1333.6	1324.1	1314.6	1305.1	1295.6	1286.2	1276.7	1267.2	1257.7	1248.2	1228.1
37.5°	1387.3	1376.4	1365.5	1354.5	1343.6	1332.7	1321.8	1310.8	1299.9	1289.0	1265.8
40°	1449.5	1436.8	1424.1	1411.5	1398.8	1386.1	1373.4	1360.8	1348.1	1335.4	1308.7
42.5°	1520.9	1506.5	1492.1	1477.6	1463.2	1448.8	1434.4	1419.9	1405.5	1391.1	1360.1
45°	1604.4	1587.7	1571.0	1554.3	1537.6	1520.9	1504.2	1487.5	1470.8	1454.1	1418.3
47.5°	1698.0	1679.0	1660.1	1641.1	1622.2	1603.2	1584.3	1565.3	1546.4	1527.4	1486.4
50°	1801.9	1780.8	1759.7	1738.5	1717.4	1696.3	1675.2	1654.0	1632.9	1611.8	1564.5
52.5°	1914.1	1890.6	1867.1	1843.6	1820.1	1796.7	1773.2	1749.7	1726.2	1702.7	1649.1
55°	2027.2	2002.3	1977.3	1952.4	1927.5	1902.5	1877.6	1852.7	1827.7	1802.8	1742.7
57.5°	2139.4	2113.2	2087.1	2060.9	2034.7	2008.6	1982.4	1956.2	1930.1	1903.9	1837.6
60°	2244.2	2217.4	2190.6	2163.8	2137.0	2110.3	2083.5	2056.7	2029.9	2003.1	1931.3
62.5°	2333.3	2306.8	2280.3	2253.8	2227.3	2200.9	2174.4	2147.9	2121.4	2094.9	2018.4
65°	2401.0	2376.0	2350.9	2325.9	2300.8	2275.8	2250.7	2225.7	2200.6	2175.6	2095.3
67.5°	2444.6	2420.2	2395.8	2371.3	2346.9	2322.5	2298.1	2273.6	2249.2	2224.8	2143.2
70°	2453.8	2430.7	2407.6	2384.6	2361.5	2338.4	2315.3	2292.3	2269.2	2246.1	2164.6
72.5°	2425.1	2403.3	2381.4	2359.6	2337.7	2315.9	2294.0	2272.2	2250.3	2228.5	2148.9
75°	2358.3	2337.8	2317.3	2296.8	2276.3	2255.8	2235.3	2214.8	2194.3	2173.8	2097.8
77.5°	2255.4	2236.2	2217.1	2197.9	2178.7	2159.6	2140.4	2121.2	2102.1	2082.9	2011.4
80°	2122.8	2104.9	2086.9	2069.0	2051.1	2033.1	2015.2	1997.3	1979.3	1961.4	1896.1
82.5°	1969.7	1952.7	1935.7	1918.7	1901.7	1884.7	1867.7	1850.7	1833.7	1816.7	1757.5
85°	1808.4	1792.3	1776.2	1760.2	1744.1	1728.0	1711.9	1695.9	1679.8	1663.7	1610.4
87.5°	1647.9	1632.6	1617.2	1601.9	1586.5	1571.2	1555.8	1540.5	1525.1	1509.8	1462.2
90°	1501.4	1487.0	1472.6	1458.1	1443.7	1429.3	1414.9	1400.4	1386.0	1371.6	1328.4
92.5°	1379.0	1365.4	1351.8	1338.2	1324.6	1311.0	1297.4	1283.8	1270.2	1256.6	1217.1
95°	1276.1	1263.1	1250.1	1237.1	1224.1	1211.2	1198.2	1185.2	1172.2	1159.2	1122.5
97.5°	1191.7	1179.0	1166.3	1153.7	1141.0	1128.3	1115.6	1103.0	1090.3	1077.6	1042.9
100°	1123.0	1110.5	1098.1	1085.6	1073.1	1060.7	1048.2	1035.7	1023.3	1010.8	977.1
102.5°	1066.5	1054.2	1042.0	1029.7	1017.4	1005.2	992.9	980.6	968.4	956.1	923.1
105°	1019.2	1007.2	995.3	983.3	971.4	959.4	947.5	935.5	923.6	911.6	878.8
107.5°	975.6	963.6	951.7	939.7	927.8	915.8	903.9	891.9	880.0	868.0	835.9
110°	932.9	921.0	909.0	897.1	885.1	873.2	861.2	849.3	837.3	825.4	794.0



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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°	890.3	878.3	866.4	854.4	842.5	830.5	818.6	806.6	794.7	782.7	752.3
115°	844.8	833.0	821.1	809.3	797.4	785.6	773.7	761.9	750.0	738.2	709.1
117.5°	796.6	785.4	774.1	762.9	751.7	740.4	729.2	718.0	706.7	695.5	667.8
120°	752.1	741.4	730.7	720.0	709.3	698.5	687.8	677.1	666.4	655.7	628.8
122.5°	708.5	698.3	688.1	677.9	667.7	657.5	647.3	637.1	626.9	616.7	590.1
125°	662.1	652.1	642.1	632.1	622.1	612.2	602.2	592.2	582.2	572.2	546.7
127.5°	609.3	599.7	590.1	580.5	570.9	561.4	551.8	542.2	532.6	523.0	499.8
130°	549.9	540.9	532.0	523.0	514.1	505.1	496.2	487.2	478.3	469.3	448.9
132.5°	489.7	482.1	474.4	466.8	459.2	451.5	443.9	436.3	428.6	421.0	402.8
135°	436.8	430.4	424.0	417.6	411.2	404.9	398.5	392.1	385.7	379.3	362.5
137.5°	389.5	383.6	377.7	371.9	366.0	360.1	354.2	348.4	342.5	336.6	321.1
140°	342.2	336.9	331.7	326.4	321.2	315.9	310.7	305.4	300.2	294.9	281.1
142.5°	296.8	292.3	287.7	283.2	278.7	274.1	269.6	265.1	260.5	256.0	243.7
145°	254.1	250.0	245.9	241.7	237.6	233.5	229.4	225.2	221.1	217.0	206.5
147.5°	213.3	210.0	206.7	203.4	200.1	196.8	193.5	190.2	186.9	183.6	174.4
150°	177.1	174.2	171.3	168.5	165.6	162.7	159.8	157.0	154.1	151.2	143.3
152.5°	143.7	141.2	138.8	136.3	133.8	131.4	128.9	126.4	124.0	121.5	114.7
155°	112.2	110.1	108.1	106.0	104.0	101.9	99.9	97.8	95.8	93.7	87.8
157.5°	83.5	81.8	80.2	78.5	76.9	75.2	73.6	71.9	70.3	68.6	63.8
160°	56.6	55.3	53.9	52.6	51.2	49.9	48.5	47.2	45.8	44.5	41.1
162.5°	32.5	31.6	30.6	29.7	28.8	27.8	26.9	26.0	25.0	24.1	22.1
165°	15.8	15.3	14.8	14.2	13.7	13.2	12.7	12.1	11.6	11.1	10.1
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



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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°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	942.8	943.1	943.4	943.8	944.1	944.4	944.7	945.0	943.1	941.3	939.4
5°	963.7	963.3	962.9	962.4	962.0	961.6	961.2	960.8	957.9	955.0	952.1
7.5°	982.4	981.2	979.9	978.7	977.4	976.2	974.9	973.7	969.8	965.9	962.0
10°	996.8	995.4	993.9	992.5	991.0	989.6	988.1	986.7	981.3	976.0	970.6
12.5°	1013.3	1010.9	1008.4	1005.9	1003.4	1001.0	998.5	996.0	989.3	982.6	975.9
15°	1031.6	1027.5	1023.5	1019.5	1015.5	1011.4	1007.4	1003.4	995.4	987.3	979.3
17.5°	1048.7	1043.0	1037.3	1031.7	1026.0	1020.3	1014.7	1009.0	999.4	989.8	980.2
20°	1067.7	1060.0	1052.3	1044.5	1036.8	1029.1	1021.3	1013.6	1002.4	991.1	979.9
22.5°	1087.9	1078.2	1068.5	1058.9	1049.2	1039.5	1029.8	1020.1	1006.7	993.3	979.9
25°	1110.3	1098.9	1087.5	1076.0	1064.6	1053.2	1041.7	1030.3	1014.2	998.1	982.1
27.5°	1132.8	1119.6	1106.4	1093.3	1080.1	1066.9	1053.7	1040.5	1021.4	1002.4	983.3
30°	1154.9	1139.8	1124.6	1109.5	1094.3	1079.2	1064.0	1048.9	1026.7	1004.6	982.4
32.5°	1179.9	1162.3	1144.8	1127.3	1109.8	1092.2	1074.7	1057.2	1032.3	1007.3	982.4
35°	1208.0	1187.9	1167.8	1147.8	1127.7	1107.6	1087.5	1067.4	1039.2	1010.9	982.7
37.5°	1242.6	1219.5	1196.3	1173.1	1149.9	1126.8	1103.6	1080.4	1048.9	1017.3	985.8
40°	1282.0	1255.3	1228.6	1202.0	1175.3	1148.6	1121.9	1095.2	1060.5	1025.8	991.0
42.5°	1329.1	1298.0	1267.0	1236.0	1205.0	1173.9	1142.9	1111.9	1073.7	1035.5	997.2
45°	1382.6	1346.8	1311.1	1275.3	1239.6	1203.8	1168.1	1132.3	1090.2	1048.0	1005.9
47.5°	1445.4	1404.4	1363.4	1322.3	1281.3	1240.3	1199.3	1158.3	1111.6	1064.9	1018.3
50°	1517.2	1469.9	1422.6	1375.3	1328.0	1280.7	1233.4	1186.1	1134.8	1083.5	1032.2
52.5°	1595.5	1541.9	1488.3	1434.8	1381.2	1327.6	1274.0	1220.4	1163.7	1107.1	1050.4
55°	1682.7	1622.6	1562.5	1502.5	1442.4	1382.3	1322.3	1262.2	1199.6	1137.1	1074.5
57.5°	1771.4	1705.1	1638.9	1572.6	1506.4	1440.1	1373.9	1307.6	1238.9	1170.1	1101.4
60°	1859.5	1787.6	1715.8	1644.0	1572.2	1500.3	1428.5	1356.7	1281.6	1206.5	1131.4
62.5°	1942.0	1865.5	1789.1	1712.6	1636.2	1559.7	1483.3	1406.8	1325.3	1243.8	1162.3
65°	2015.1	1934.8	1854.5	1774.3	1694.0	1613.7	1533.5	1453.2	1365.4	1277.6	1189.8
67.5°	2061.6	1980.0	1898.4	1816.7	1735.1	1653.5	1571.9	1490.3	1397.1	1304.0	1210.8
70°	2083.1	2001.6	1920.1	1838.5	1757.0	1675.5	1594.0	1512.5	1415.3	1318.2	1221.0
72.5°	2069.4	1989.8	1910.3	1830.7	1751.2	1671.6	1592.1	1512.5	1413.5	1314.5	1215.4
75°	2021.7	1945.7	1869.6	1793.6	1717.5	1641.5	1565.4	1489.4	1390.6	1291.8	1192.9
77.5°	1939.9	1868.4	1796.9	1725.3	1653.8	1582.3	1510.8	1439.3	1343.2	1247.0	1150.9
80°	1830.7	1765.4	1700.1	1634.7	1569.4	1504.1	1438.7	1373.4	1281.4	1189.4	1097.4
82.5°	1698.2	1639.0	1579.7	1520.5	1461.2	1402.0	1342.7	1283.5	1197.8	1112.0	1026.3
85°	1557.2	1503.9	1450.6	1397.4	1344.1	1290.8	1237.6	1184.3	1105.6	1026.8	948.1
87.5°	1414.6	1367.0	1319.4	1271.7	1224.1	1176.5	1128.9	1081.3	1009.9	938.5	867.1
90°	1285.2	1242.1	1198.9	1155.7	1112.5	1069.4	1026.2	983.0	918.4	853.8	789.2
92.5°	1177.7	1138.2	1098.7	1059.3	1019.8	980.3	940.9	901.4	842.7	783.9	725.2
95°	1085.8	1049.2	1012.5	975.8	939.1	902.5	865.8	829.1	775.2	721.3	667.4
97.5°	1008.2	973.4	938.7	904.0	869.3	834.5	799.8	765.1	715.2	665.3	615.5
100°	943.4	909.7	876.0	842.4	808.7	775.0	741.3	707.6	661.2	614.9	568.5
102.5°	890.2	857.2	824.2	791.3	758.3	725.3	692.4	659.4	615.5	571.6	527.7
105°	846.1	813.3	780.5	747.8	715.0	682.2	649.5	616.7	574.9	533.0	491.2
107.5°	803.7	771.6	739.4	707.3	675.1	643.0	610.8	578.7	538.5	498.3	458.1
110°	762.5	731.1	699.7	668.2	636.8	605.4	573.9	542.5	504.0	465.4	426.9





TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	721.9	691.5	661.1	630.7	600.3	569.9	539.5	509.1	472.2	435.3	398.4
115°	680.1	651.0	622.0	592.9	563.9	534.8	505.8	476.7	441.6	406.4	371.3
117.5°	640.1	612.4	584.7	556.9	529.2	501.5	473.8	446.1	412.7	379.3	345.9
120°	601.9	575.0	548.1	521.2	494.3	467.4	440.5	413.6	382.3	351.0	319.6
122.5°	563.5	536.9	510.3	483.8	457.2	430.6	404.0	377.4	348.6	319.7	290.9
125°	521.3	495.8	470.4	444.9	419.5	394.0	368.6	343.1	316.6	290.1	263.7
127.5°	476.6	453.5	430.3	407.1	383.9	360.8	337.6	314.4	289.7	264.9	240.2
130°	428.5	408.1	387.7	367.2	346.8	326.4	306.0	285.6	262.7	239.9	217.0
132.5°	384.5	366.3	348.1	329.8	311.6	293.4	275.1	256.9	235.9	214.9	193.8
135°	345.7	328.9	312.1	295.3	278.5	261.7	244.9	228.1	209.0	190.0	170.9
137.5°	305.7	290.2	274.8	259.3	243.9	228.4	213.0	197.5	180.6	163.7	146.8
140°	267.3	253.5	239.7	225.8	212.0	198.2	184.4	170.6	155.4	140.1	124.9
142.5°	231.5	219.2	206.9	194.7	182.4	170.1	157.9	145.6	132.1	118.6	105.1
145°	196.0	185.5	175.0	164.4	153.9	143.4	132.9	122.4	110.6	98.7	86.9
147.5°	165.3	156.1	146.9	137.8	128.6	119.4	110.3	101.1	91.0	80.9	70.8
150°	135.3	127.4	119.5	111.5	103.6	95.7	87.7	79.8	71.7	63.5	55.4
152.5°	107.9	101.1	94.3	87.5	80.7	73.9	67.1	60.3	54.0	47.7	41.4
155°	81.9	76.1	70.2	64.3	58.4	52.6	46.7	40.8	36.4	31.9	27.5
157.5°	58.9	54.1	49.2	44.4	39.5	34.7	29.8	25.0	22.2	19.4	16.7
160°	37.7	34.3	30.9	27.5	24.1	20.7	17.3	13.9	12.4	10.8	9.3
162.5°	20.2	18.2	16.3	14.3	12.4	10.4	8.5	6.5	5.8	5.1	4.3
165°	9.1	8.0	7.0	6.0	5.0	3.9	2.9	1.9	1.7	1.5	1.3
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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	937.6	935.7	933.9	932.0	930.2	928.3	928.9	929.5	930.2	930.8	931.4
5°	949.2	946.4	943.5	940.6	937.7	934.8	934.3	933.8	933.3	932.8	932.2
7.5°	958.1	954.1	950.2	946.3	942.4	938.5	936.9	935.2	933.6	931.9	930.3
10°	965.3	959.9	954.6	949.2	943.9	938.5	935.5	932.5	929.5	926.5	923.6
12.5°	969.2	962.5	955.8	949.1	942.4	935.7	931.5	927.3	923.0	918.8	914.6
15°	971.3	963.2	955.2	947.2	939.1	931.1	925.6	920.2	914.7	909.2	903.8
17.5°	970.6	961.1	951.5	941.9	932.3	922.7	916.0	909.3	902.6	895.9	889.3
20°	968.7	957.4	946.2	935.0	923.7	912.5	904.5	896.4	888.4	880.4	872.3
22.5°	966.5	953.2	939.8	926.4	913.0	899.6	890.1	880.6	871.1	861.6	852.2
25°	966.0	949.9	933.8	917.8	901.7	885.6	874.7	863.8	852.8	841.9	831.0
27.5°	964.2	945.2	926.1	907.0	888.0	868.9	856.5	844.2	831.8	819.5	807.1
30°	960.3	938.1	916.0	893.8	871.7	849.5	835.7	821.9	808.1	794.3	780.4
32.5°	957.5	932.5	907.6	882.7	857.7	832.8	817.1	801.5	785.8	770.1	754.5
35°	954.5	926.2	898.0	869.8	841.5	813.3	795.8	778.3	760.8	743.3	725.7
37.5°	954.3	922.7	891.2	859.7	828.1	796.6	777.2	757.9	738.5	719.1	699.8
40°	956.3	921.6	886.9	852.1	817.4	782.7	760.4	738.2	715.9	693.7	671.4
42.5°	959.0	920.8	882.6	844.3	806.1	767.9	743.1	718.2	693.4	668.6	643.7
45°	963.7	921.6	879.4	837.3	795.1	753.0	726.1	699.2	672.3	645.4	618.6
47.5°	971.6	924.9	878.2	831.6	784.9	738.2	708.6	679.0	649.5	619.9	590.3
50°	980.9	929.5	878.2	826.9	775.6	724.3	692.0	659.8	627.5	595.3	563.0
52.5°	993.7	937.1	880.4	823.7	767.1	710.4	675.7	640.9	606.2	571.5	536.7
55°	1012.0	949.4	886.9	824.3	761.8	699.2	661.7	624.2	586.7	549.2	511.7
57.5°	1032.7	963.9	895.2	826.5	757.7	689.0	648.7	608.4	568.1	527.8	487.6
60°	1056.3	981.1	906.0	830.9	755.8	680.7	637.5	594.3	551.2	508.0	464.8
62.5°	1080.8	999.3	917.8	836.3	754.8	673.3	627.3	581.4	535.4	489.5	443.5
65°	1102.0	1014.3	926.5	838.7	750.9	663.1	614.7	566.2	517.8	469.4	420.9
67.5°	1117.7	1024.5	931.4	838.2	745.1	651.9	601.1	550.3	499.5	448.7	397.9
70°	1123.8	1026.7	929.5	832.3	735.2	638.0	585.6	533.1	480.7	428.2	375.8
72.5°	1116.4	1017.4	918.4	819.3	720.3	621.3	567.6	513.9	460.3	406.6	352.9
75°	1094.1	995.3	896.5	797.6	698.8	600.0	545.8	491.6	437.4	383.2	329.0
77.5°	1054.7	958.6	862.4	766.3	670.1	574.0	519.9	465.8	411.7	357.6	303.6
80°	1005.4	913.3	821.3	729.3	637.3	545.3	491.8	438.3	384.9	331.4	277.9
82.5°	940.6	854.8	769.1	683.4	597.6	511.9	459.9	407.8	355.8	303.8	251.7
85°	869.4	790.6	711.9	633.2	554.4	475.7	425.6	375.5	325.5	275.4	225.3
87.5°	795.7	724.2	652.8	581.4	510.0	438.6	390.9	343.2	295.5	247.8	200.1
90°	724.6	660.0	595.4	530.8	466.2	401.6	357.0	312.4	267.7	223.1	178.5
92.5°	666.5	607.7	549.0	490.3	431.5	372.8	331.4	290.0	248.5	207.1	165.7
95°	613.5	559.7	505.8	451.9	398.0	344.1	305.9	267.6	229.4	191.2	152.9
97.5°	565.6	515.7	465.8	416.0	366.1	316.2	281.1	245.9	210.8	175.7	140.5
100°	522.1	475.8	429.4	383.0	336.7	290.3	258.0	225.8	193.5	161.3	129.0
102.5°	483.8	439.9	396.0	352.1	308.2	264.3	234.9	205.6	176.2	146.8	117.5
105°	449.4	407.5	365.7	323.9	282.0	240.2	213.5	186.8	160.1	133.4	106.8
107.5°	417.9	377.8	337.6	297.4	257.2	217.0	192.9	168.8	144.7	120.6	96.4
110°	388.4	349.8	311.3	272.8	234.2	195.7	174.0	152.2	130.5	108.7	87.0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	361.5	324.7	287.8	250.9	214.0	177.1	157.4	137.7	118.1	98.4	78.7
115°	336.1	301.0	265.8	230.7	195.5	160.4	142.6	124.8	106.9	89.1	71.3
117.5°	312.5	279.2	245.8	212.4	179.0	145.6	129.4	113.2	97.1	80.9	64.7
120°	288.3	257.0	225.7	194.3	163.0	131.7	117.1	102.4	87.8	73.2	58.5
122.5°	262.0	233.2	204.3	175.5	146.6	117.8	104.7	91.6	78.5	65.4	52.4
125°	237.2	210.7	184.2	157.8	131.3	104.8	93.2	81.5	69.9	58.2	46.6
127.5°	215.5	190.7	166.0	141.3	116.5	91.8	81.6	71.4	61.2	51.0	40.8
130°	194.1	171.3	148.4	125.5	102.7	79.8	70.9	62.1	53.2	44.3	35.5
132.5°	172.8	151.8	130.8	109.7	88.7	67.7	60.2	52.7	45.1	37.6	30.1
135°	151.9	132.8	113.8	94.7	75.7	56.6	50.3	44.0	37.7	31.4	25.2
137.5°	129.9	113.0	96.1	79.2	62.3	45.4	40.4	35.3	30.3	25.2	20.2
140°	109.6	94.4	79.1	63.9	48.6	33.4	29.7	26.0	22.3	18.6	14.8
142.5°	91.6	78.1	64.6	51.1	37.6	24.1	21.4	18.7	16.1	13.4	10.7
145°	75.0	63.2	51.3	39.5	27.6	15.8	14.0	12.3	10.5	8.8	7.0
147.5°	60.7	50.6	40.5	30.4	20.3	10.2	9.1	7.9	6.8	5.7	4.5
150°	47.2	39.1	30.9	22.8	14.6	6.5	5.8	5.1	4.3	3.6	2.9
152.5°	35.1	28.9	22.6	16.3	10.0	3.7	3.3	2.9	2.5	2.1	1.6
155°	23.1	18.6	14.2	9.8	5.3	0.9	0.8	0.7	0.6	0.5	0.4
157.5°	13.9	11.1	8.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	7.7	6.2	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.6	2.9	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	0.8	0.6	0.4	0.2	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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	932.0	932.7	933.3	933.9	931.6	929.4	927.1	924.8	922.6	920.3	918.0
5°	931.7	931.2	930.7	930.2	927.0	923.8	920.6	917.4	914.2	911.0	907.8
7.5°	928.6	927.0	925.3	923.7	919.5	915.2	911.0	906.8	902.5	898.3	894.1
10°	920.6	917.6	914.6	911.6	906.9	902.1	897.4	892.6	887.9	883.1	878.4
12.5°	910.4	906.1	901.9	897.7	892.4	887.2	881.9	876.7	871.4	866.2	860.9
15°	898.3	892.8	887.4	881.9	876.0	870.2	864.3	858.4	852.6	846.7	840.8
17.5°	882.6	875.9	869.2	862.5	856.3	850.1	843.9	837.7	831.6	825.4	819.2
20°	864.3	856.3	848.2	840.2	833.8	827.4	821.0	814.6	808.3	801.9	795.5
22.5°	842.7	833.2	823.7	814.2	807.9	801.6	795.4	789.1	782.8	776.5	770.3
25°	820.1	809.1	798.2	787.3	781.0	774.7	768.5	762.2	755.9	749.6	743.4
27.5°	794.8	782.4	770.1	757.7	751.7	745.7	739.8	733.8	727.8	721.8	715.9
30°	766.6	752.8	739.0	725.2	719.7	714.3	708.8	703.4	697.9	692.5	687.0
32.5°	738.8	723.1	707.5	691.8	687.0	682.1	677.3	672.4	667.6	662.7	657.9
35°	708.2	690.7	673.2	655.7	652.0	648.3	644.6	640.9	637.1	633.4	629.7
37.5°	680.4	661.0	641.7	622.3	620.0	617.8	615.5	613.2	611.0	608.7	606.4
40°	649.2	626.9	604.7	582.4	582.3	582.2	582.1	582.0	581.9	581.8	581.7
42.5°	618.9	594.1	569.2	544.4	546.6	548.7	550.9	553.0	555.2	557.3	559.5
45°	591.7	564.8	537.9	511.0	514.9	518.8	522.7	526.6	530.6	534.5	538.4
47.5°	560.7	531.2	501.6	472.0	478.4	484.8	491.2	497.6	503.9	510.3	516.7
50°	530.8	498.5	466.3	434.0	442.9	451.7	460.6	469.5	478.3	487.2	496.1
52.5°	502.0	467.3	432.5	397.8	408.9	420.1	431.2	442.3	453.5	464.6	475.7
55°	474.2	436.7	399.2	361.7	375.2	388.7	402.2	415.7	429.2	442.7	456.2
57.5°	447.3	407.0	366.7	326.4	342.3	358.2	374.0	389.9	405.8	421.7	437.5
60°	421.6	378.5	335.3	292.1	310.3	328.6	346.8	365.1	383.3	401.6	419.8
62.5°	397.6	351.6	305.7	259.7	280.0	300.3	320.6	340.9	361.2	381.5	401.8
65°	372.5	324.1	275.6	227.2	249.6	271.9	294.3	316.6	339.0	361.3	383.7
67.5°	347.1	296.3	245.5	194.7	219.0	243.3	267.7	292.0	316.3	340.6	365.0
70°	323.3	270.9	218.4	166.0	191.7	217.3	243.0	268.6	294.3	319.9	345.6
72.5°	299.2	245.6	191.9	138.2	164.9	191.6	218.3	245.0	271.6	298.3	325.0
75°	274.8	220.6	166.4	112.2	139.5	166.8	194.1	221.4	248.8	276.1	303.4
77.5°	249.5	195.4	141.3	87.2	114.8	142.4	170.0	197.6	225.3	252.9	280.5
80°	224.4	171.0	117.5	64.0	91.5	119.0	146.5	174.0	201.6	229.1	256.6
82.5°	199.7	147.7	95.6	43.6	70.6	97.6	124.6	151.6	178.6	205.6	232.6
85°	175.2	125.2	75.1	25.0	51.4	77.8	104.1	130.5	156.9	183.3	209.6
87.5°	152.4	104.7	57.0	9.3	34.4	59.6	84.7	109.9	135.0	160.2	185.3
90°	133.9	89.2	44.6	0.0	23.6	47.2	70.8	94.4	118.0	141.6	165.2
92.5°	124.3	82.8	41.4	0.0	21.8	43.7	65.5	87.4	109.2	131.1	152.9
95°	114.7	76.5	38.2	0.0	20.2	40.4	60.6	80.8	101.0	121.2	141.4
97.5°	105.4	70.3	35.1	0.0	18.8	37.5	56.3	75.0	93.8	112.5	131.3
100°	96.8	64.5	32.3	0.0	17.2	34.4	51.6	68.8	86.1	103.3	120.5
102.5°	88.1	58.7	29.4	0.0	15.9	31.7	47.6	63.5	79.3	95.2	111.1
105°	80.1	53.4	26.7	0.0	14.5	29.1	43.6	58.1	72.7	87.2	101.7
107.5°	72.3	48.2	24.1	0.0	13.3	26.6	39.9	53.2	66.4	79.7	93.0
110°	65.2	43.5	21.7	0.0	12.1	24.1	36.2	48.2	60.3	72.3	84.4



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	59.0	39.4	19.7	0.0	10.9	21.8	32.8	43.7	54.6	65.5	76.5
115°	53.5	35.6	17.8	0.0	9.7	19.4	29.1	38.8	48.4	58.1	67.8
117.5°	48.5	32.4	16.2	0.0	8.7	17.3	26.0	34.6	43.3	51.9	60.6
120°	43.9	29.3	14.6	0.0	7.7	15.5	23.2	30.9	38.7	46.4	54.1
122.5°	39.3	26.2	13.1	0.0	6.9	13.8	20.7	27.6	34.5	41.4	48.3
125°	34.9	23.3	11.6	0.0	6.1	12.2	18.2	24.3	30.4	36.5	42.5
127.5°	30.6	20.4	10.2	0.0	5.2	10.3	15.5	20.6	25.8	30.9	36.1
130°	26.6	17.7	8.9	0.0	4.3	8.6	13.0	17.3	21.6	25.9	30.3
132.5°	22.6	15.0	7.5	0.0	3.5	7.0	10.5	14.0	17.5	21.0	24.5
135°	18.9	12.6	6.3	0.0	2.8	5.6	8.3	11.1	13.9	16.7	19.4
137.5°	15.1	10.1	5.0	0.0	2.1	4.1	6.2	8.2	10.3	12.3	14.4
140°	11.1	7.4	3.7	0.0	1.4	2.9	4.3	5.8	7.2	8.7	10.1
142.5°	8.0	5.4	2.7	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.8
145°	5.3	3.5	1.8	0.0	0.5	1.0	1.5	2.0	2.6	3.1	3.6
147.5°	3.4	2.3	1.1	0.0	0.3	0.6	0.9	1.2	1.6	1.9	2.2
150°	2.2	1.4	0.7	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
152.5°	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.2	0.1	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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	915.8	913.5	913.0	912.5	911.9	911.4	910.9	910.4	909.8	909.3	908.8
5°	904.6	901.4	900.1	898.7	897.4	896.0	894.7	893.3	892.0	890.6	889.3
7.5°	889.8	885.6	884.0	882.3	880.7	879.0	877.4	875.7	874.1	872.4	870.8
10°	873.6	868.9	866.8	864.8	862.7	860.7	858.6	856.6	854.5	852.5	850.4
12.5°	855.7	850.4	848.2	846.1	843.9	841.7	839.6	837.4	835.2	833.1	830.9
15°	835.0	829.1	827.1	825.2	823.2	821.3	819.3	817.4	815.4	813.5	811.5
17.5°	813.0	806.8	805.2	803.5	801.9	800.2	798.6	796.9	795.3	793.6	792.0
20°	789.1	782.7	781.9	781.1	780.2	779.4	778.6	777.8	776.9	776.1	775.3
22.5°	764.0	757.7	758.4	759.1	759.9	760.6	761.3	762.0	762.8	763.5	764.2
25°	737.1	730.8	734.0	737.2	740.4	743.6	746.7	749.9	753.1	756.3	759.5
27.5°	709.9	703.9	709.9	715.9	721.8	727.8	733.8	739.8	745.7	751.7	757.7
30°	681.6	676.1	685.0	693.8	702.7	711.5	720.4	729.2	738.1	746.9	755.8
32.5°	653.0	648.2	659.8	671.5	683.1	694.8	706.4	718.1	729.7	741.4	753.0
35°	626.0	622.3	636.6	650.9	665.3	679.6	693.9	708.2	722.6	736.9	751.2
37.5°	604.2	601.9	618.3	634.7	651.0	667.4	683.8	700.2	716.5	732.9	749.3
40°	581.6	581.5	600.2	619.0	637.7	656.5	675.2	694.0	712.7	731.5	750.2
42.5°	561.6	563.8	584.8	605.8	626.9	647.9	668.9	689.9	711.0	732.0	753.0
45°	542.3	546.2	569.8	593.4	617.0	640.6	664.2	687.8	711.4	735.0	758.6
47.5°	523.1	529.5	555.9	582.3	608.6	635.0	661.4	687.8	714.1	740.5	766.9
50°	504.9	513.8	543.2	572.5	601.9	631.3	660.6	690.0	719.4	748.7	778.1
52.5°	486.9	498.0	530.7	563.3	596.0	628.7	661.3	694.0	726.7	759.3	792.0
55°	469.7	483.2	519.5	555.7	592.0	628.3	664.5	700.8	737.1	773.3	809.6
57.5°	453.4	469.3	509.6	549.9	590.2	630.5	670.7	711.0	751.3	791.6	831.9
60°	438.1	456.3	500.6	544.9	589.2	633.5	677.8	722.1	766.4	810.7	855.0
62.5°	422.1	442.4	490.9	539.4	588.0	636.5	685.0	733.5	782.1	830.6	879.1
65°	406.0	428.4	480.9	533.3	585.8	638.2	690.7	743.1	795.6	848.0	900.5
67.5°	389.3	413.6	469.6	525.5	581.5	637.4	693.4	749.3	805.3	861.2	917.2
70°	371.2	396.9	455.2	513.5	571.9	630.2	688.5	746.8	805.2	863.5	921.8
72.5°	351.7	378.4	437.7	497.1	556.4	615.8	675.1	734.5	793.8	853.2	912.5
75°	330.7	358.0	416.9	475.9	534.8	593.7	652.7	711.6	770.5	829.5	888.4
77.5°	308.1	335.7	392.2	448.6	505.1	561.6	618.0	674.5	731.0	787.4	843.9
80°	284.1	311.6	364.7	417.7	470.8	523.9	576.9	630.0	683.1	736.1	789.2
82.5°	259.6	286.6	336.3	385.9	435.6	485.3	534.9	584.6	634.3	683.9	733.6
85°	236.0	262.4	307.0	351.6	396.3	440.9	485.5	530.1	574.8	619.4	664.0
87.5°	210.5	235.6	275.9	316.2	356.5	396.8	437.0	477.3	517.6	557.9	598.2
90°	188.8	212.4	249.2	286.0	322.7	359.5	396.3	433.1	469.8	506.6	543.4
92.5°	174.8	196.6	229.6	262.6	295.5	328.5	361.5	394.5	427.4	460.4	493.4
95°	161.6	181.8	212.5	243.2	273.9	304.6	335.3	366.0	396.7	427.4	458.1
97.5°	150.0	168.8	197.2	225.7	254.1	282.5	311.0	339.4	367.8	396.3	424.7
100°	137.7	154.9	181.7	208.5	235.3	262.1	288.8	315.6	342.4	369.2	396.0
102.5°	126.9	142.8	168.3	193.7	219.2	244.6	270.1	295.5	321.0	346.4	371.9
105°	116.3	130.8	155.2	179.6	204.0	228.4	252.9	277.3	301.7	326.1	350.5
107.5°	106.3	119.6	143.0	166.4	189.8	213.2	236.5	259.9	283.3	306.7	330.1
110°	96.4	108.5	131.1	153.6	176.2	198.8	221.3	243.9	266.5	289.0	311.6



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	87.4	98.3	119.9	141.6	163.2	184.8	206.5	228.1	249.7	271.4	293.0
115°	77.5	87.2	108.0	128.8	149.6	170.4	191.3	212.1	232.9	253.7	274.5
117.5°	69.2	77.9	97.6	117.3	136.9	156.6	176.3	196.0	215.6	235.3	255.0
120°	61.9	69.6	88.0	106.5	124.9	143.4	161.8	180.3	198.7	217.2	235.6
122.5°	55.2	62.1	79.0	95.9	112.8	129.7	146.6	163.5	180.4	197.3	214.2
125°	48.6	54.7	70.2	85.6	101.1	116.5	132.0	147.4	162.9	178.3	193.8
127.5°	41.2	46.4	60.4	74.4	88.4	102.4	116.5	130.5	144.5	158.5	172.5
130°	34.6	38.9	51.0	63.0	75.1	87.2	99.2	111.3	123.4	135.4	147.5
132.5°	28.0	31.5	41.8	52.1	62.4	72.7	83.1	93.4	103.7	114.0	124.3
135°	22.2	25.0	34.0	42.9	51.9	60.9	69.8	78.8	87.8	96.7	105.7
137.5°	16.4	18.5	26.3	34.2	42.0	49.8	57.7	65.5	73.3	81.2	89.0
140°	11.6	13.0	19.8	26.6	33.4	40.2	47.0	53.8	60.6	67.4	74.2
142.5°	6.6	7.4	13.3	19.2	25.0	30.9	36.8	42.7	48.5	54.4	60.3
145°	4.1	4.6	9.4	14.3	19.1	24.0	28.8	33.7	38.5	43.4	48.2
147.5°	2.5	2.8	6.6	10.4	14.2	18.0	21.9	25.7	29.5	33.3	37.1
150°	0.8	0.9	3.9	6.9	9.9	12.9	15.8	18.8	21.8	24.8	27.8
152.5°	0.0	0.0	2.2	4.3	6.5	8.7	10.8	13.0	15.2	17.3	19.5
155°	0.0	0.0	1.3	2.7	4.0	5.4	6.7	8.1	9.4	10.8	12.1
157.5°	0.0	0.0	0.5	1.0	1.5	2.0	2.6	3.1	3.6	4.1	4.6
160°	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	907.7	906.5	905.4	904.3	903.1	902.0	900.9	899.7	898.6	897.7	896.8
5°	888.0	886.6	885.3	884.0	882.6	881.3	880.0	878.6	877.3	876.8	876.3
7.5°	869.4	867.9	866.5	865.0	863.6	862.1	860.7	859.2	857.8	857.3	856.8
10°	849.2	847.9	846.7	845.5	844.2	843.0	841.8	840.5	839.3	838.7	838.1
12.5°	829.9	828.9	827.8	826.8	825.8	824.8	823.7	822.7	821.7	821.3	820.9
15°	811.0	810.5	809.9	809.4	808.9	808.4	807.8	807.3	806.8	807.0	807.2
17.5°	792.8	793.6	794.5	795.3	796.1	796.9	797.8	798.6	799.4	800.4	801.5
20°	778.3	781.3	784.3	787.3	790.2	793.2	796.2	799.2	802.2	803.8	805.5
22.5°	769.1	774.1	779.0	784.0	788.9	793.9	798.8	803.8	808.7	810.8	812.8
25°	765.8	772.1	778.4	784.7	790.9	797.2	803.5	809.8	816.1	818.5	820.8
27.5°	764.9	772.1	779.3	786.5	793.8	801.0	808.2	815.4	822.6	825.4	828.2
30°	764.0	772.3	780.5	788.8	797.0	805.3	813.5	821.8	830.0	833.3	836.6
32.5°	762.6	772.2	781.8	791.4	800.9	810.5	820.1	829.7	839.3	843.3	847.3
35°	762.3	773.4	784.6	795.7	806.8	817.9	829.1	840.2	851.3	856.1	861.0
37.5°	762.4	775.5	788.6	801.7	814.7	827.8	840.9	854.0	867.1	873.0	878.9
40°	765.5	780.7	796.0	811.2	826.5	841.7	857.0	872.2	887.5	894.5	901.5
42.5°	770.7	788.4	806.2	823.9	841.6	859.3	877.1	894.8	912.5	920.7	929.0
45°	779.2	799.8	820.4	841.0	861.7	882.3	902.9	923.5	944.1	953.7	963.3
47.5°	790.6	814.3	838.0	861.7	885.4	909.1	932.8	956.5	980.2	991.6	1003.1
50°	805.8	833.5	861.2	888.9	916.7	944.4	972.1	999.8	1027.5	1040.3	1053.1
52.5°	823.8	855.7	887.5	919.3	951.2	983.0	1014.8	1046.7	1078.5	1092.6	1106.7
55°	845.1	880.7	916.2	951.8	987.3	1022.9	1058.4	1094.0	1129.5	1145.5	1161.5
57.5°	871.4	910.8	950.3	989.7	1029.2	1068.6	1108.1	1147.5	1187.0	1204.1	1221.2
60°	898.6	942.2	985.8	1029.4	1072.9	1116.5	1160.1	1203.7	1247.3	1264.6	1281.9
62.5°	925.8	972.5	1019.1	1065.8	1112.5	1159.2	1205.8	1252.5	1299.2	1316.4	1333.6
65°	948.8	997.1	1045.5	1093.8	1142.1	1190.4	1238.8	1287.1	1335.4	1352.7	1370.0
67.5°	966.6	1015.9	1065.3	1114.6	1164.0	1213.3	1262.7	1312.0	1361.4	1377.8	1394.2
70°	971.2	1020.5	1069.9	1119.2	1168.6	1217.9	1267.3	1316.6	1366.0	1381.3	1396.5
72.5°	960.5	1008.5	1056.6	1104.6	1152.6	1200.6	1248.7	1296.7	1344.7	1358.7	1372.7
75°	933.9	979.5	1025.0	1070.6	1116.1	1161.7	1207.2	1252.8	1298.3	1311.0	1323.7
77.5°	886.6	929.2	971.9	1014.5	1057.2	1099.8	1142.5	1185.1	1227.8	1240.2	1252.5
80°	827.9	866.7	905.4	944.2	982.9	1021.7	1060.4	1099.2	1137.9	1149.3	1160.8
82.5°	767.4	801.2	835.0	868.8	902.5	936.3	970.1	1003.9	1037.7	1048.2	1058.7
85°	694.3	724.6	754.9	785.2	815.4	845.7	876.0	906.3	936.6	945.9	955.2
87.5°	624.7	651.2	677.6	704.1	730.6	757.1	783.5	810.0	836.5	845.1	853.6
90°	566.1	588.8	611.4	634.1	656.8	679.5	702.1	724.8	747.5	755.5	763.6
92.5°	514.3	535.2	556.1	577.0	598.0	618.9	639.8	660.7	681.6	688.7	695.8
95°	477.0	495.8	514.7	533.5	552.4	571.2	590.1	608.9	627.8	634.5	641.2
97.5°	442.5	460.4	478.2	496.0	513.9	531.7	549.5	567.4	585.2	591.5	597.8
100°	413.3	430.6	447.9	465.2	482.6	499.9	517.2	534.5	551.8	557.8	563.8
102.5°	388.7	405.5	422.3	439.1	455.8	472.6	489.4	506.2	523.0	529.0	535.0
105°	367.2	383.9	400.6	417.3	434.0	450.7	467.4	484.1	500.8	506.7	512.5
107.5°	346.9	363.7	380.5	397.3	414.1	430.9	447.7	464.5	481.3	487.1	492.8
110°	328.3	345.0	361.7	378.4	395.0	411.7	428.4	445.1	461.8	467.7	473.6





TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	309.7	326.4	343.1	359.8	376.5	393.2	409.9	426.6	443.3	449.3	455.3
115°	291.2	307.9	324.6	341.3	357.9	374.6	391.3	408.0	424.7	430.8	436.9
117.5°	271.6	288.2	304.8	321.4	337.9	354.5	371.1	387.7	404.3	410.6	416.9
120°	251.8	267.9	284.1	300.3	316.4	332.6	348.8	364.9	381.1	387.6	394.1
122.5°	229.9	245.5	261.2	276.9	292.5	308.2	323.9	339.5	355.2	361.8	368.4
125°	208.5	223.3	238.0	252.7	267.5	282.2	296.9	311.7	326.4	333.0	339.6
127.5°	186.4	200.3	214.2	228.1	242.1	256.0	269.9	283.8	297.7	304.0	310.3
130°	161.0	174.5	188.0	201.5	214.9	228.4	241.9	255.4	268.9	274.4	279.8
132.5°	137.2	150.1	162.9	175.8	188.7	201.6	214.4	227.3	240.2	245.2	250.3
135°	117.3	129.0	140.6	152.3	163.9	175.6	187.2	198.9	210.5	215.3	220.2
137.5°	98.8	108.6	118.4	128.2	137.9	147.7	157.5	167.3	177.1	182.2	187.2
140°	82.1	90.1	98.0	105.9	113.9	121.8	129.7	137.7	145.6	150.2	154.9
142.5°	67.0	73.7	80.4	87.1	93.8	100.5	107.2	113.9	120.6	124.6	128.6
145°	53.9	59.5	65.2	70.9	76.5	82.2	87.9	93.5	99.2	103.0	106.8
147.5°	41.8	46.6	51.3	56.1	60.8	65.6	70.3	75.1	79.8	83.4	87.0
150°	31.6	35.4	39.2	43.0	46.9	50.7	54.5	58.3	62.1	65.6	69.1
152.5°	22.5	25.5	28.5	31.5	34.4	37.4	40.4	43.4	46.4	49.7	53.0
155°	14.5	16.8	19.2	21.6	23.9	26.3	28.7	31.0	33.4	36.3	39.2
157.5°	6.6	8.5	10.5	12.5	14.4	16.4	18.4	20.3	22.3	24.9	27.4
160°	2.2	3.6	4.9	6.3	7.6	9.0	10.3	11.7	13.0	15.1	17.1
162.5°	0.4	0.8	1.2	1.6	2.1	2.5	2.9	3.3	3.7	5.3	7.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	895.8	894.9	894.0	893.1	892.1	891.2	890.3	891.3	892.4	893.4	894.4
5°	875.8	875.3	874.7	874.2	873.7	873.2	872.7	873.3	873.9	874.5	875.1
7.5°	856.3	855.8	855.2	854.7	854.2	853.7	853.2	853.6	854.0	854.4	854.8
10°	837.4	836.8	836.2	835.6	834.9	834.3	833.7	834.0	834.3	834.6	834.9
12.5°	820.4	820.0	819.6	819.2	818.7	818.3	817.9	818.0	818.1	818.2	818.3
15°	807.4	807.6	807.9	808.1	808.3	808.5	808.7	808.5	808.3	808.1	807.9
17.5°	802.5	803.5	804.6	805.6	806.6	807.7	808.7	807.8	806.8	805.9	805.0
20°	807.1	808.8	810.4	812.1	813.7	815.4	817.0	815.2	813.5	811.7	810.0
22.5°	814.9	816.9	819.0	821.0	823.1	825.1	827.2	824.8	822.5	820.1	817.7
25°	823.2	825.6	827.9	830.3	832.7	835.0	837.4	834.8	832.2	829.7	827.1
27.5°	830.9	833.7	836.5	839.3	842.0	844.8	847.6	844.6	841.6	838.6	835.6
30°	839.9	843.2	846.5	849.8	853.1	856.4	859.7	856.2	852.7	849.2	845.7
32.5°	851.3	855.3	859.4	863.4	867.4	871.4	875.4	871.4	867.4	863.4	859.4
35°	865.8	870.7	875.5	880.4	885.2	890.1	894.9	890.2	885.4	880.7	876.0
37.5°	884.7	890.6	896.5	902.4	908.2	914.1	920.0	914.1	908.2	902.4	896.5
40°	908.5	915.5	922.6	929.6	936.6	943.6	950.6	943.9	937.2	930.5	923.8
42.5°	937.2	945.5	953.7	962.0	970.2	978.5	986.7	979.2	971.7	964.1	956.6
45°	972.8	982.4	992.0	1001.6	1011.1	1020.7	1030.3	1021.3	1012.4	1003.4	994.4
47.5°	1014.5	1026.0	1037.4	1048.9	1060.3	1071.8	1083.2	1072.6	1062.0	1051.4	1040.8
50°	1065.8	1078.6	1091.4	1104.2	1116.9	1129.7	1142.5	1130.4	1118.4	1106.3	1094.3
52.5°	1120.9	1135.0	1149.1	1163.2	1177.4	1191.5	1205.6	1192.4	1179.2	1166.0	1152.8
55°	1177.4	1193.4	1209.4	1225.4	1241.3	1257.3	1273.3	1258.9	1244.4	1230.0	1215.6
57.5°	1238.3	1255.4	1272.6	1289.7	1306.8	1323.9	1341.0	1325.7	1310.5	1295.2	1280.0
60°	1299.2	1316.5	1333.9	1351.2	1368.5	1385.8	1403.1	1387.5	1372.0	1356.4	1340.9
62.5°	1350.8	1368.0	1385.3	1402.5	1419.7	1436.9	1454.1	1438.7	1423.4	1408.0	1392.7
65°	1387.3	1404.6	1422.0	1439.3	1456.6	1473.9	1491.2	1476.3	1461.3	1446.4	1431.4
67.5°	1410.5	1426.9	1443.3	1459.7	1476.0	1492.4	1508.8	1494.7	1480.6	1466.5	1452.4
70°	1411.8	1427.0	1442.3	1457.5	1472.8	1488.0	1503.3	1490.2	1477.1	1464.0	1450.9
72.5°	1386.7	1400.7	1414.8	1428.8	1442.8	1456.8	1470.8	1458.6	1446.5	1434.3	1422.2
75°	1336.3	1349.0	1361.7	1374.4	1387.0	1399.7	1412.4	1401.3	1390.1	1379.0	1367.9
77.5°	1264.9	1277.3	1289.6	1302.0	1314.4	1326.7	1339.1	1327.8	1316.4	1305.1	1293.8
80°	1172.2	1183.6	1195.1	1206.5	1217.9	1229.4	1240.8	1230.3	1219.8	1209.3	1198.8
82.5°	1069.2	1079.7	1090.3	1100.8	1111.3	1121.8	1132.3	1122.5	1112.7	1102.9	1093.1
85°	964.4	973.7	983.0	992.3	1001.5	1010.8	1020.1	1011.1	1002.2	993.2	984.2
87.5°	862.2	870.7	879.3	887.8	896.4	904.9	913.5	905.1	896.8	888.4	880.1
90°	771.6	779.6	787.7	795.7	803.7	811.8	819.8	812.2	804.6	796.9	789.3
92.5°	702.9	710.0	717.2	724.3	731.4	738.5	745.6	738.8	732.0	725.2	718.4
95°	647.9	654.6	661.3	668.0	674.7	681.4	688.1	681.9	675.7	669.6	663.4
97.5°	604.0	610.3	616.6	622.9	629.1	635.4	641.7	635.8	630.0	624.1	618.2
100°	569.7	575.7	581.7	587.7	593.6	599.6	605.6	599.9	594.3	588.6	582.9
102.5°	540.9	546.9	552.9	558.9	564.8	570.8	576.8	571.3	565.9	560.4	555.0
105°	518.4	524.3	530.1	536.0	541.9	547.7	553.6	548.1	542.7	537.2	531.8
107.5°	498.6	504.4	510.1	515.9	521.7	527.4	533.2	527.8	522.5	517.1	511.8
110°	479.4	485.3	491.2	497.1	502.9	508.8	514.7	509.3	504.0	498.6	493.3



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	461.2	467.2	473.2	479.2	485.1	491.1	497.1	491.6	486.2	480.7	475.2
115°	443.0	449.1	455.1	461.2	467.3	473.4	479.5	473.9	468.4	462.8	457.2
117.5°	423.2	429.5	435.7	442.0	448.3	454.6	460.9	455.2	449.6	443.9	438.2
120°	400.6	407.1	413.6	420.1	426.6	433.1	439.6	433.8	428.0	422.3	416.5
122.5°	375.0	381.6	388.1	394.7	401.3	407.9	414.5	408.6	402.8	396.9	391.0
125°	346.2	352.8	359.4	366.0	372.6	379.2	385.8	380.2	374.7	369.1	363.5
127.5°	316.6	322.9	329.1	335.4	341.7	348.0	354.3	348.9	343.6	338.2	332.8
130°	285.3	290.8	296.2	301.7	307.2	312.6	318.1	313.3	308.4	303.6	298.7
132.5°	255.3	260.4	265.4	270.5	275.5	280.6	285.6	281.5	277.4	273.2	269.1
135°	225.0	229.9	234.7	239.6	244.4	249.3	254.1	250.4	246.7	243.0	239.3
137.5°	192.3	197.3	202.4	207.4	212.5	217.5	222.6	218.9	215.2	211.5	207.8
140°	159.5	164.1	168.8	173.4	178.0	182.7	187.3	184.2	181.1	178.0	174.9
142.5°	132.6	136.6	140.7	144.7	148.7	152.7	156.7	154.5	152.4	150.2	148.1
145°	110.6	114.4	118.3	122.1	125.9	129.7	133.5	131.8	130.0	128.3	126.5
147.5°	90.6	94.2	97.8	101.4	105.0	108.6	112.2	110.8	109.3	107.9	106.4
150°	72.6	76.1	79.7	83.2	86.7	90.2	93.7	92.5	91.2	90.0	88.7
152.5°	56.3	59.6	62.8	66.1	69.4	72.7	76.0	75.0	74.0	72.9	71.9
155°	42.1	45.0	47.8	50.7	53.6	56.5	59.4	58.7	58.0	57.2	56.5
157.5°	30.0	32.6	35.1	37.7	40.3	42.8	45.4	44.8	44.2	43.6	43.0
160°	19.2	21.2	23.3	25.3	27.4	29.4	31.5	31.1	30.7	30.3	29.9
162.5°	8.6	10.3	11.9	13.6	15.2	16.9	18.5	18.3	18.1	17.9	17.7
165°	3.1	4.1	5.2	6.2	7.2	8.3	9.3	9.3	9.3	9.3	9.3
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: P201344

CATALOG NUMBER: 4LBLELD4-7-ASYMF-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°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	895.5	896.5	897.5	898.6	899.6	901.0	902.5	903.9	905.3	906.8	908.2
5°	875.8	876.4	877.0	877.6	878.2	880.0	881.7	883.5	885.2	887.0	888.7
7.5°	855.3	855.7	856.1	856.5	856.9	859.1	861.2	863.4	865.6	867.7	869.9
10°	835.3	835.6	835.9	836.2	836.5	838.7	840.8	843.0	845.2	847.3	849.5
12.5°	818.5	818.6	818.7	818.8	818.9	821.2	823.4	825.7	828.0	830.2	832.5
15°	807.6	807.4	807.2	807.0	806.8	808.2	809.7	811.1	812.6	814.0	815.5
17.5°	804.0	803.1	802.2	801.2	800.3	800.4	800.5	800.6	800.7	800.8	800.9
20°	808.2	806.5	804.7	803.0	801.2	799.2	797.3	795.3	793.4	791.4	789.5
22.5°	815.4	813.0	810.6	808.3	805.9	802.1	798.3	794.5	790.7	786.8	783.0
25°	824.5	821.9	819.4	816.8	814.2	808.7	803.3	797.8	792.4	786.9	781.5
27.5°	832.7	829.7	826.7	823.7	820.7	814.3	807.9	801.5	795.1	788.8	782.4
30°	842.1	838.6	835.1	831.6	828.1	820.6	813.1	805.5	798.0	790.5	783.0
32.5°	855.3	851.3	847.3	843.3	839.3	830.2	821.2	812.1	803.0	794.0	784.9
35°	871.2	866.5	861.8	857.0	852.3	841.6	830.9	820.1	809.4	798.7	788.0
37.5°	890.6	884.7	878.9	873.0	867.1	854.8	842.6	830.3	818.0	805.8	793.5
40°	917.1	910.4	903.7	897.0	890.3	875.8	861.2	846.7	832.2	817.6	803.1
42.5°	949.1	941.6	934.0	926.5	919.0	901.7	884.4	867.1	849.8	832.4	815.1
45°	985.5	976.5	967.5	958.6	949.6	929.6	909.6	889.6	869.6	849.7	829.7
47.5°	1030.1	1019.5	1008.9	998.3	987.7	964.6	941.5	918.4	895.3	872.3	849.2
50°	1082.2	1070.2	1058.1	1046.1	1034.0	1007.2	980.4	953.6	926.8	900.1	873.3
52.5°	1139.7	1126.5	1113.3	1100.1	1086.9	1056.1	1025.3	994.5	963.7	932.8	902.0
55°	1201.1	1186.7	1172.3	1157.8	1143.4	1108.6	1073.8	1038.9	1004.1	969.3	934.5
57.5°	1264.7	1249.5	1234.2	1219.0	1203.7	1164.9	1126.0	1087.2	1048.3	1009.5	970.6
60°	1325.3	1309.8	1294.2	1278.7	1263.1	1220.6	1178.2	1135.7	1093.3	1050.8	1008.4
62.5°	1377.3	1362.0	1346.6	1331.3	1315.9	1270.5	1225.0	1179.6	1134.2	1088.7	1043.3
65°	1416.5	1401.5	1386.6	1371.6	1356.7	1309.3	1261.9	1214.5	1167.1	1119.8	1072.4
67.5°	1438.2	1424.1	1410.0	1395.9	1381.8	1333.4	1284.9	1236.5	1188.1	1139.6	1091.2
70°	1437.9	1424.8	1411.7	1398.6	1385.5	1337.2	1288.9	1240.5	1192.2	1143.9	1095.6
72.5°	1410.0	1397.9	1385.7	1373.6	1361.4	1314.4	1267.4	1220.4	1173.4	1126.5	1079.5
75°	1356.7	1345.6	1334.5	1323.3	1312.2	1267.8	1223.4	1179.0	1134.6	1090.1	1045.7
77.5°	1282.4	1271.1	1259.8	1248.4	1237.1	1196.0	1154.9	1113.8	1072.7	1031.5	990.4
80°	1188.2	1177.7	1167.2	1156.7	1146.2	1108.7	1071.2	1033.7	996.2	958.7	921.2
82.5°	1083.4	1073.6	1063.8	1054.0	1044.2	1010.8	977.4	944.1	910.7	877.3	843.9
85°	975.3	966.3	957.3	948.4	939.4	910.0	880.7	851.3	821.9	792.6	763.2
87.5°	871.7	863.4	855.0	846.7	838.3	812.8	787.2	761.7	736.1	710.6	685.0
90°	781.7	774.1	766.4	758.8	751.2	728.5	705.8	683.2	660.5	637.8	615.1
92.5°	711.6	704.8	698.0	691.2	684.4	664.2	644.0	623.8	603.6	583.4	563.2
95°	657.2	651.0	644.9	638.7	632.5	613.8	595.2	576.5	557.9	539.2	520.6
97.5°	612.4	606.5	600.6	594.8	588.9	571.4	553.9	536.3	518.8	501.3	483.8
100°	577.3	571.6	565.9	560.3	554.6	537.8	521.0	504.2	487.4	470.6	453.8
102.5°	549.5	544.1	538.6	533.2	527.7	511.2	494.7	478.2	461.7	445.3	428.8
105°	526.3	520.9	515.4	510.0	504.5	488.3	472.1	456.0	439.8	423.6	407.4
107.5°	506.4	501.1	495.7	490.4	485.0	468.9	452.8	436.8	420.7	404.6	388.5
110°	487.9	482.6	477.2	471.9	466.5	450.4	434.3	418.3	402.2	386.1	370.0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-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°	469.8	464.3	458.8	453.4	447.9	431.9	416.0	400.0	384.0	368.1	352.1
115°	451.7	446.1	440.5	435.0	429.4	413.4	397.4	381.5	365.5	349.5	333.5
117.5°	432.6	426.9	421.2	415.6	409.9	393.9	378.0	362.0	346.0	330.1	314.1
120°	410.7	404.9	399.2	393.4	387.6	371.9	356.3	340.6	325.0	309.3	293.7
122.5°	385.2	379.3	373.4	367.6	361.7	346.7	331.6	316.6	301.5	286.5	271.4
125°	358.0	352.4	346.8	341.3	335.7	321.1	306.4	291.8	277.2	262.5	247.9
127.5°	327.5	322.1	316.7	311.4	306.0	292.4	278.8	265.2	251.6	238.0	224.4
130°	293.9	289.0	284.2	279.3	274.5	262.1	249.8	237.4	225.0	212.7	200.3
132.5°	265.0	260.9	256.7	252.6	248.5	236.7	224.8	213.0	201.1	189.3	177.4
135°	235.5	231.8	228.1	224.4	220.7	210.1	199.5	188.9	178.3	167.6	157.0
137.5°	204.0	200.3	196.6	192.9	189.2	180.5	171.9	163.2	154.6	145.9	137.3
140°	171.9	168.8	165.7	162.6	159.5	152.5	145.5	138.5	131.5	124.4	117.4
142.5°	145.9	143.8	141.6	139.5	137.3	131.3	125.3	119.4	113.4	107.4	101.4
145°	124.8	123.0	121.3	119.5	117.8	112.6	107.5	102.3	97.2	92.0	86.9
147.5°	105.0	103.5	102.1	100.6	99.2	94.9	90.6	86.2	81.9	77.6	73.3
150°	87.5	86.2	85.0	83.7	82.5	78.8	75.1	71.4	67.7	64.0	60.3
152.5°	70.9	69.9	68.8	67.8	66.8	63.7	60.6	57.5	54.4	51.3	48.2
155°	55.8	55.1	54.3	53.6	52.9	50.3	47.7	45.2	42.6	40.0	37.4
157.5°	42.3	41.7	41.1	40.5	39.9	37.7	35.6	33.4	31.2	29.1	26.9
160°	29.4	29.0	28.6	28.2	27.8	26.2	24.5	22.9	21.2	19.6	17.9
162.5°	17.5	17.3	17.1	16.9	16.7	15.9	15.1	14.2	13.4	12.6	11.8
165°	9.3	9.3	9.3	9.3	9.3	9.0	8.7	8.4	8.1	7.7	7.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	909.6	911.1	912.5	912.9	913.3	913.7	914.1	914.6	915.0	915.4	915.8
5°	890.5	892.2	894.0	895.0	896.1	897.1	898.1	899.2	900.2	901.2	902.3
7.5°	872.1	874.2	876.4	877.7	879.1	880.4	881.7	883.1	884.4	885.7	887.1
10°	851.7	853.8	856.0	857.6	859.3	860.9	862.6	864.2	865.9	867.5	869.2
12.5°	834.8	837.0	839.3	840.5	841.8	843.0	844.2	845.5	846.7	847.9	849.2
15°	816.9	818.4	819.8	820.9	822.1	823.2	824.3	825.5	826.6	827.7	828.9
17.5°	801.0	801.1	801.2	801.8	802.4	803.1	803.7	804.3	804.9	805.6	806.2
20°	787.5	785.6	783.6	783.5	783.4	783.3	783.2	783.1	783.0	782.9	782.8
22.5°	779.2	775.4	771.6	770.1	768.5	767.0	765.4	763.9	762.3	760.8	759.2
25°	776.0	770.6	765.1	761.4	757.7	754.0	750.3	746.5	742.8	739.1	735.4
27.5°	776.0	769.6	763.2	756.6	750.0	743.4	736.8	730.3	723.7	717.1	710.5
30°	775.4	767.9	760.4	751.0	741.7	732.3	722.9	713.6	704.2	694.8	685.5
32.5°	775.8	766.8	757.7	745.7	733.8	721.8	709.9	697.9	686.0	674.0	662.1
35°	777.2	766.5	755.8	741.2	726.5	711.9	697.3	682.6	668.0	653.4	638.7
37.5°	781.2	769.0	756.7	739.5	722.3	705.1	687.9	670.7	653.5	636.3	619.1
40°	788.6	774.0	759.5	739.9	720.3	700.8	681.2	661.6	642.0	622.5	602.9
42.5°	797.8	780.5	763.2	741.5	719.7	698.0	676.3	654.5	632.8	611.1	589.3
45°	809.7	789.7	769.7	745.5	721.3	697.1	672.9	648.6	624.4	600.2	576.0
47.5°	826.1	803.0	779.9	752.9	725.9	698.9	671.9	644.9	617.9	590.9	563.9
50°	846.5	819.7	792.9	762.7	732.5	702.3	672.1	642.0	611.8	581.6	551.4
52.5°	871.2	840.4	809.6	776.0	742.4	708.8	675.2	641.7	608.1	574.5	540.9
55°	899.6	864.8	830.0	792.6	755.2	717.8	680.4	643.0	605.6	568.2	530.8
57.5°	931.8	892.9	854.1	812.7	771.3	729.8	688.4	647.0	605.6	564.1	522.7
60°	965.9	923.5	881.0	835.4	789.7	744.1	698.4	652.8	607.1	561.5	515.8
62.5°	997.9	952.4	907.0	857.2	807.4	757.7	707.9	658.1	608.3	558.6	508.8
65°	1025.0	977.6	930.2	876.4	822.6	768.8	715.0	661.3	607.5	553.7	499.9
67.5°	1042.8	994.3	945.9	888.7	831.5	774.3	717.1	660.0	602.8	545.6	488.4
70°	1047.2	998.9	950.6	891.1	831.7	772.2	712.8	653.3	593.9	534.4	475.0
72.5°	1032.5	985.5	938.5	878.5	818.6	758.6	698.6	638.7	578.7	518.7	458.8
75°	1001.3	956.9	912.5	853.0	793.6	734.1	674.7	615.2	555.8	496.3	436.9
77.5°	949.3	908.2	867.1	809.9	752.7	695.5	638.3	581.2	524.0	466.8	409.6
80°	883.7	846.2	808.7	755.2	701.7	648.3	594.8	541.3	487.8	434.4	380.9
82.5°	810.6	777.2	743.8	695.0	646.1	597.3	548.4	499.6	450.7	401.9	353.0
85°	733.8	704.5	675.1	630.6	586.1	541.6	497.1	452.5	408.0	363.5	319.0
87.5°	659.5	633.9	608.4	568.8	529.2	489.7	450.1	410.5	370.9	331.4	291.8
90°	592.5	569.8	547.1	511.7	476.2	440.8	405.3	369.9	334.4	299.0	263.5
92.5°	543.0	522.8	502.6	470.1	437.7	405.2	372.8	340.3	307.9	275.4	243.0
95°	501.9	483.3	464.6	434.6	404.6	374.6	344.6	314.7	284.7	254.7	224.7
97.5°	466.2	448.7	431.2	403.4	375.6	347.7	319.9	292.1	264.3	236.4	208.6
100°	437.0	420.2	403.4	377.1	350.8	324.6	298.3	272.0	245.7	219.5	193.2
102.5°	412.3	395.8	379.3	354.3	329.2	304.2	279.1	254.1	229.0	204.0	178.9
105°	391.3	375.1	358.9	334.7	310.5	286.3	262.1	237.8	213.6	189.4	165.2
107.5°	372.5	356.4	340.3	316.8	293.3	269.8	246.3	222.9	199.4	175.9	152.4
110°	354.0	337.9	321.8	299.2	276.7	254.1	231.5	209.0	186.4	163.8	141.3



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	336.1	320.2	304.2	282.4	260.5	238.7	216.8	195.0	173.1	151.3	129.4
115°	317.6	301.6	285.6	264.7	243.8	222.9	202.0	181.0	160.1	139.2	118.3
117.5°	298.1	282.2	266.2	246.3	226.4	206.5	186.6	166.8	146.9	127.0	107.1
120°	278.0	262.4	246.7	228.2	209.6	191.1	172.5	154.0	135.4	116.9	98.3
122.5°	256.4	241.3	226.3	209.2	192.1	175.0	157.9	140.7	123.6	106.5	89.4
125°	233.3	218.6	204.0	188.5	173.1	157.6	142.2	126.7	111.3	95.8	80.4
127.5°	210.8	197.2	183.6	169.6	155.6	141.6	127.6	113.5	99.5	85.5	71.5
130°	187.9	175.6	163.2	150.7	138.3	125.8	113.3	100.9	88.4	75.9	63.5
132.5°	165.6	153.7	141.9	131.1	120.3	109.4	98.6	87.8	77.0	66.1	55.3
135°	146.4	135.8	125.2	115.6	106.0	96.4	86.8	77.3	67.7	58.1	48.5
137.5°	128.6	120.0	111.3	102.5	93.8	85.0	76.3	67.5	58.8	50.0	41.3
140°	110.4	103.4	96.4	88.6	80.8	72.9	65.1	57.3	49.5	41.6	33.8
142.5°	95.5	89.5	83.5	76.5	69.5	62.5	55.5	48.4	41.4	34.4	27.4
145°	81.7	76.6	71.4	65.2	59.0	52.9	46.7	40.5	34.3	28.2	22.0
147.5°	68.9	64.6	60.3	54.9	49.6	44.2	38.9	33.5	28.2	22.8	17.5
150°	56.6	52.9	49.2	44.9	40.5	36.2	31.9	27.5	23.2	18.9	14.5
152.5°	45.1	42.0	38.9	35.5	32.1	28.7	25.3	21.9	18.5	15.1	11.7
155°	34.9	32.3	29.7	27.1	24.5	22.0	19.4	16.8	14.2	11.7	9.1
157.5°	24.7	22.6	20.4	18.8	17.1	15.5	13.8	12.2	10.5	8.9	7.2
160°	16.3	14.6	13.0	12.0	10.9	9.9	8.9	7.8	6.8	5.8	4.7
162.5°	10.9	10.1	9.3	8.6	7.9	7.1	6.4	5.7	5.0	4.2	3.5
165°	7.1	6.8	6.5	6.0	5.5	5.0	4.5	3.9	3.4	2.9	2.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	916.2	919.0	921.8	924.6	927.4	930.1	932.9	935.7	938.5	941.3	941.3
5°	903.3	907.0	910.7	914.4	918.1	921.8	925.5	929.2	932.9	936.6	937.7
7.5°	888.4	892.8	897.3	901.7	906.1	910.6	915.0	919.4	923.9	928.3	930.8
10°	870.8	876.0	881.1	886.3	891.4	896.6	901.7	906.9	912.0	917.2	920.8
12.5°	850.4	856.2	861.9	867.7	873.5	879.2	885.0	890.8	896.5	902.3	907.1
15°	830.0	836.2	842.4	848.5	854.7	860.9	867.1	873.2	879.4	885.6	891.6
17.5°	806.8	813.4	820.0	826.6	833.2	839.8	846.4	853.0	859.6	866.2	873.4
20°	782.7	789.3	795.9	802.5	809.1	815.7	822.3	828.9	835.5	842.1	850.8
22.5°	757.7	764.2	770.7	777.2	783.7	790.1	796.6	803.1	809.6	816.1	826.1
25°	731.7	738.3	744.9	751.5	758.1	764.6	771.2	777.8	784.4	791.0	802.1
27.5°	703.9	710.0	716.1	722.1	728.2	734.3	740.4	746.4	752.5	758.6	771.5
30°	676.1	681.6	687.0	692.5	697.9	703.4	708.8	714.3	719.7	725.2	739.7
32.5°	650.1	654.6	659.2	663.7	668.2	672.8	677.3	681.8	686.4	690.9	707.0
35°	624.1	627.6	631.1	634.6	638.1	641.7	645.2	648.7	652.2	655.7	673.4
37.5°	601.9	603.9	605.8	607.8	609.7	611.7	613.6	615.6	617.5	619.5	639.3
40°	583.3	583.1	582.9	582.7	582.5	582.3	582.1	581.9	581.7	581.5	603.8
42.5°	567.6	565.0	562.4	559.9	557.3	554.7	552.1	549.6	547.0	544.4	569.0
45°	551.8	546.9	541.9	537.0	532.0	527.1	522.1	517.2	512.2	507.3	534.3
47.5°	536.9	529.4	521.9	514.4	506.9	499.3	491.8	484.3	476.8	469.3	498.8
50°	521.2	511.3	501.4	491.5	481.6	471.8	461.9	452.0	442.1	432.2	464.1
52.5°	507.3	494.8	482.4	469.9	457.4	445.0	432.5	420.0	407.6	395.1	429.7
55°	493.4	478.6	463.7	448.9	434.0	419.2	404.3	389.5	374.6	359.8	397.0
57.5°	481.3	464.0	446.7	429.4	412.1	394.7	377.4	360.1	342.8	325.5	365.3
60°	470.2	450.4	430.6	410.8	391.0	371.3	351.5	331.7	311.9	292.1	334.6
62.5°	459.0	436.9	414.7	392.6	370.4	348.3	326.1	304.0	281.8	259.7	304.7
65°	446.1	421.9	397.7	373.4	349.2	325.0	300.8	276.5	252.3	228.1	275.5
67.5°	431.2	405.0	378.9	352.7	326.5	300.4	274.2	248.0	221.9	195.7	245.5
70°	415.5	387.9	360.3	332.6	305.0	277.4	249.8	222.1	194.5	166.9	218.3
72.5°	398.8	369.9	341.1	312.2	283.4	254.5	225.7	196.8	168.0	139.1	191.5
75°	377.4	348.0	318.7	289.3	259.9	230.6	201.2	171.8	142.5	113.1	166.1
77.5°	352.4	323.1	293.9	264.6	235.3	206.1	176.8	147.5	118.3	89.0	141.7
80°	327.4	298.4	269.5	240.5	211.6	182.6	153.7	124.7	95.8	66.8	118.8
82.5°	304.2	275.4	246.7	217.9	189.2	160.4	131.7	102.9	74.2	45.4	96.1
85°	274.5	247.1	219.7	192.3	164.9	137.4	110.0	82.6	55.2	27.8	76.4
87.5°	252.2	225.4	198.6	171.8	145.0	118.3	91.5	64.7	37.9	11.1	57.4
90°	228.1	202.8	177.4	152.1	126.7	101.4	76.0	50.7	25.3	0.0	43.3
92.5°	210.5	187.1	163.7	140.3	116.9	93.6	70.2	46.8	23.4	0.0	40.1
95°	194.7	173.1	151.4	129.8	108.2	86.5	64.9	43.3	21.6	0.0	36.9
97.5°	180.8	160.7	140.6	120.5	100.4	80.4	60.3	40.2	20.1	0.0	33.8
100°	166.9	148.4	129.8	111.3	92.7	74.2	55.6	37.1	18.5	0.0	30.9
102.5°	153.9	136.9	119.9	102.9	85.9	68.9	51.9	34.9	17.9	0.9	29.0
105°	141.0	125.4	109.9	94.3	78.7	63.2	47.6	32.0	16.5	0.9	26.6
107.5°	128.9	114.6	100.3	85.9	71.6	57.3	43.0	28.6	14.3	0.0	23.2
110°	118.7	105.5	92.3	79.1	65.9	52.8	39.6	26.4	13.2	0.0	20.9





TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	107.6	95.7	83.9	72.0	60.2	48.3	36.5	24.6	12.8	0.9	19.9
115°	97.4	86.7	76.0	65.2	54.5	43.8	33.1	22.3	11.6	0.9	18.1
117.5°	87.2	77.6	68.0	58.4	48.8	39.3	29.7	20.1	10.5	0.9	16.5
120°	79.8	71.0	62.3	53.5	44.7	36.0	27.2	18.4	9.7	0.9	15.0
122.5°	72.3	64.4	56.4	48.5	40.6	32.6	24.7	16.8	8.8	0.9	13.5
125°	64.9	57.8	50.7	43.6	36.5	29.3	22.2	15.1	8.0	0.9	11.9
127.5°	57.5	51.2	44.9	38.6	32.3	26.1	19.8	13.5	7.2	0.9	10.2
130°	51.0	45.4	39.9	34.3	28.7	23.2	17.6	12.0	6.5	0.9	8.5
132.5°	44.5	39.7	34.8	30.0	25.1	20.3	15.4	10.6	5.7	0.9	7.0
135°	38.9	34.7	30.5	26.2	22.0	17.8	13.6	9.3	5.1	0.9	5.6
137.5°	32.5	29.0	25.5	22.0	18.5	14.9	11.4	7.9	4.4	0.9	4.3
140°	26.0	23.2	20.4	17.6	14.8	12.1	9.3	6.5	3.7	0.9	3.3
142.5°	20.4	18.2	16.1	13.9	11.7	9.6	7.4	5.2	3.1	0.9	2.4
145°	15.8	14.1	12.5	10.8	9.2	7.5	5.9	4.2	2.6	0.9	1.9
147.5°	12.1	10.9	9.6	8.4	7.1	5.9	4.6	3.4	2.1	0.9	1.7
150°	10.2	9.2	8.1	7.1	6.1	5.0	4.0	3.0	1.9	0.9	1.4
152.5°	8.3	7.6	6.9	6.2	5.5	4.7	4.0	3.3	2.6	1.9	2.2
155°	6.5	6.0	5.5	5.0	4.5	3.9	3.4	2.9	2.4	1.9	2.1
157.5°	5.6	5.2	4.8	4.4	4.0	3.5	3.1	2.7	2.3	1.9	2.0
160°	3.7	3.5	3.3	3.1	2.9	2.7	2.5	2.3	2.1	1.9	1.9
162.5°	2.8	2.6	2.4	2.2	2.0	1.7	1.5	1.3	1.1	0.9	0.9
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8
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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	942.2	943.1	944.1
5°	938.9	940.0	941.1	942.3	943.4	944.5	945.7	946.8	948.8	950.7	952.7
7.5°	933.3	935.7	938.2	940.7	943.2	945.6	948.1	950.6	953.6	956.6	959.6
10°	924.4	928.0	931.6	935.2	938.8	942.4	946.0	949.6	953.7	957.8	962.0
12.5°	912.0	916.8	921.7	926.5	931.4	936.2	941.1	945.9	951.3	956.6	962.0
15°	897.6	903.5	909.5	915.5	921.5	927.4	933.4	939.4	946.2	953.0	959.8
17.5°	880.6	887.8	895.0	902.3	909.5	916.7	923.9	931.1	939.4	947.8	956.1
20°	859.4	868.1	876.7	885.4	894.0	902.7	911.3	920.0	930.1	940.2	950.3
22.5°	836.1	846.1	856.1	866.0	876.0	886.0	896.0	906.0	918.6	931.2	943.7
25°	813.3	824.4	835.5	846.7	857.8	868.9	880.1	891.2	906.7	922.1	937.6
27.5°	784.4	797.2	810.1	823.0	835.9	848.7	861.6	874.5	893.0	911.6	930.1
30°	754.3	768.8	783.3	797.9	812.4	826.9	841.5	856.0	877.5	899.1	920.6
32.5°	723.1	739.1	755.2	771.3	787.4	803.4	819.5	835.6	860.5	885.5	910.4
35°	691.1	708.9	726.6	744.3	762.0	779.8	797.5	815.2	843.4	871.7	899.9
37.5°	659.1	678.8	698.6	718.4	738.2	757.9	777.7	797.5	828.8	860.2	891.5
40°	626.0	648.3	670.5	692.8	715.0	737.3	759.5	781.8	816.3	850.8	885.3
42.5°	593.6	618.3	642.9	667.5	692.1	716.8	741.4	766.0	804.1	842.2	880.4
45°	561.3	588.3	615.3	642.2	669.2	696.2	723.2	750.2	792.3	834.5	876.6
47.5°	528.2	557.7	587.2	616.6	646.1	675.6	705.0	734.5	781.0	827.4	873.9
50°	496.1	528.0	559.9	591.9	623.8	655.7	687.7	719.6	770.4	821.2	872.0
52.5°	464.3	499.0	533.6	568.2	602.8	637.5	672.1	706.7	762.4	818.2	873.9
55°	434.2	471.4	508.6	545.8	583.0	620.2	657.4	694.6	756.3	818.0	879.8
57.5°	405.1	444.8	484.6	524.4	564.2	603.9	643.7	683.5	751.1	818.7	886.3
60°	377.0	419.5	461.9	504.4	546.8	589.3	631.7	674.2	748.2	822.2	896.2
62.5°	349.7	394.8	439.8	484.8	529.8	574.9	619.9	664.9	745.5	826.1	906.6
65°	322.9	370.3	417.7	465.1	512.5	559.9	607.3	654.7	741.6	828.4	915.3
67.5°	295.2	345.0	394.8	444.5	494.3	544.1	593.8	643.6	735.9	828.2	920.6
70°	269.7	321.2	372.6	424.0	475.4	526.9	578.3	629.7	726.0	822.4	918.7
72.5°	244.0	296.4	348.9	401.3	453.8	506.2	558.7	611.1	709.4	807.7	906.0
75°	219.0	272.0	325.0	377.9	430.9	483.9	536.8	589.8	687.7	785.6	883.5
77.5°	194.3	247.0	299.6	352.3	404.9	457.6	510.2	562.9	657.8	752.7	847.6
80°	170.9	222.9	274.9	327.0	379.0	431.0	483.1	535.1	624.7	714.4	804.0
82.5°	146.8	197.5	248.2	298.9	349.6	400.3	451.0	501.7	585.4	669.0	752.7
85°	125.1	173.7	222.3	271.0	319.6	368.2	416.9	465.5	542.2	618.8	695.5
87.5°	103.6	149.9	196.2	242.4	288.7	335.0	381.2	427.5	497.1	566.6	636.2
90°	86.6	129.8	173.1	216.4	259.7	302.9	346.2	389.5	452.8	516.0	579.3
92.5°	80.2	120.2	160.3	200.4	240.5	280.5	320.6	360.7	418.2	475.7	533.2
95°	73.8	110.7	147.6	184.4	221.3	258.2	295.1	332.0	385.0	437.9	490.9
97.5°	67.6	101.4	135.2	169.0	202.8	236.6	270.4	304.2	353.3	402.5	451.6
100°	61.8	92.7	123.6	154.6	185.5	216.4	247.3	278.2	324.4	370.5	416.7
102.5°	57.2	85.3	113.4	141.6	169.7	197.8	226.0	254.1	297.9	341.7	385.5
105°	52.2	77.9	103.5	129.2	154.8	180.5	206.1	231.8	273.4	315.1	356.7
107.5°	46.4	69.6	92.8	115.9	139.1	162.3	185.5	208.7	248.7	288.7	328.6
110°	41.8	62.8	83.7	104.6	125.5	146.5	167.4	188.3	226.4	264.5	302.7



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	38.8	57.8	76.8	95.7	114.7	133.7	152.6	171.6	207.9	244.1	280.4
115°	35.3	52.5	69.7	87.0	104.2	121.4	138.6	155.8	190.4	225.0	259.7
117.5°	32.0	47.6	63.2	78.7	94.3	109.9	125.4	141.0	173.9	206.7	239.6
120°	29.1	43.3	57.4	71.5	85.6	99.8	113.9	128.0	158.6	189.2	219.8
122.5°	26.1	38.6	51.2	63.8	76.4	88.9	101.5	114.1	142.3	170.6	198.8
125°	23.0	34.0	45.0	56.1	67.1	78.1	89.2	100.2	126.4	152.5	178.7
127.5°	19.5	28.7	38.0	47.3	56.6	65.8	75.1	84.4	108.8	133.2	157.7
130°	16.2	23.8	31.4	39.1	46.7	54.3	62.0	69.6	91.6	113.7	135.7
132.5°	13.1	19.1	25.2	31.3	37.4	43.4	49.5	55.6	75.2	94.8	114.3
135°	10.4	15.1	19.9	24.6	29.4	34.1	38.9	43.6	60.5	77.4	94.3
137.5°	7.7	11.1	14.5	17.9	21.3	24.7	28.1	31.5	46.2	61.0	75.7
140°	5.7	8.0	10.4	12.8	15.2	17.5	19.9	22.3	35.1	47.9	60.6
142.5°	4.0	5.5	7.1	8.6	10.2	11.7	13.3	14.8	25.6	36.4	47.3
145°	3.0	4.0	5.0	6.1	7.1	8.1	9.2	10.2	19.0	27.7	36.5
147.5°	2.5	3.4	4.2	5.0	5.8	6.7	7.5	8.3	15.1	21.9	28.7
150°	1.9	2.5	3.0	3.5	4.0	4.6	5.1	5.6	10.7	15.9	21.0
152.5°	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	8.1	11.6	15.1
155°	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	5.8	7.8	9.9
157.5°	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	3.9	5.1	6.2
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4
162.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.5
165°	1.7	1.6	1.5	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-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°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	945.0	945.9	946.8	947.8	948.7	949.6	950.1	950.6	951.2	951.7	952.2
5°	954.7	956.6	958.6	960.6	962.5	964.5	965.5	966.5	967.6	968.6	969.6
7.5°	962.6	965.5	968.5	971.5	974.5	977.5	979.3	981.2	983.0	984.9	986.7
10°	966.1	970.2	974.3	978.5	982.6	986.7	989.7	992.7	995.7	998.7	1001.6
12.5°	967.3	972.7	978.0	983.4	988.7	994.1	998.1	1002.1	1006.2	1010.2	1014.2
15°	966.6	973.4	980.2	987.0	993.8	1000.6	1005.8	1010.9	1016.1	1021.2	1026.4
17.5°	964.5	972.8	981.2	989.5	997.9	1006.2	1013.3	1020.4	1027.5	1034.6	1041.8
20°	960.4	970.4	980.5	990.6	1000.7	1010.8	1020.3	1029.8	1039.3	1048.8	1058.2
22.5°	956.3	968.9	981.5	994.0	1006.6	1019.2	1030.3	1041.4	1052.6	1063.7	1074.8
25°	953.0	968.5	983.9	999.4	1014.8	1030.3	1043.0	1055.7	1068.3	1081.0	1093.7
27.5°	948.7	967.2	985.8	1004.3	1022.9	1041.4	1055.5	1069.6	1083.8	1097.9	1112.0
30°	942.1	963.7	985.2	1006.7	1028.3	1049.8	1065.9	1082.0	1098.0	1114.1	1130.2
32.5°	935.3	960.3	985.2	1010.1	1035.1	1060.0	1078.2	1096.5	1114.7	1132.9	1151.2
35°	928.1	956.4	984.6	1012.8	1041.1	1069.3	1090.1	1110.9	1131.7	1152.5	1173.4
37.5°	922.8	954.2	985.5	1016.8	1048.2	1079.5	1103.5	1127.5	1151.5	1175.5	1199.5
40°	919.8	954.4	988.9	1023.4	1057.9	1092.4	1119.9	1147.4	1175.0	1202.5	1230.0
42.5°	918.5	956.6	994.7	1032.9	1071.0	1109.1	1140.7	1172.4	1204.0	1235.6	1267.3
45°	918.8	960.9	1003.1	1045.2	1087.4	1129.5	1165.9	1202.3	1238.6	1275.0	1311.4
47.5°	920.4	966.8	1013.3	1059.8	1106.2	1152.7	1194.6	1236.6	1278.5	1320.5	1362.4
50°	922.8	973.6	1024.4	1075.2	1126.0	1176.8	1225.1	1273.5	1321.8	1370.1	1418.5
52.5°	929.7	985.4	1041.2	1096.9	1152.7	1208.4	1263.3	1318.2	1373.2	1428.1	1483.0
55°	941.5	1003.2	1064.9	1126.7	1188.4	1250.1	1311.2	1372.3	1433.4	1494.5	1555.6
57.5°	953.9	1021.4	1089.0	1156.6	1224.2	1291.8	1359.2	1426.6	1494.0	1561.4	1628.7
60°	970.2	1044.1	1118.1	1192.1	1266.1	1340.1	1412.9	1485.8	1558.6	1631.5	1704.3
62.5°	987.2	1067.8	1148.4	1228.9	1309.5	1390.1	1467.4	1544.7	1622.0	1699.3	1776.5
65°	1002.2	1089.0	1175.9	1262.8	1349.6	1436.5	1516.8	1597.0	1677.3	1757.6	1837.8
67.5°	1012.9	1105.2	1197.5	1289.9	1382.2	1474.5	1556.0	1637.5	1719.0	1800.5	1882.1
70°	1015.1	1111.4	1207.8	1304.1	1400.5	1496.8	1577.9	1659.0	1740.1	1821.2	1902.2
72.5°	1004.3	1102.7	1201.0	1299.3	1397.6	1495.9	1575.0	1654.2	1733.3	1812.4	1891.6
75°	981.4	1079.2	1177.1	1275.0	1372.9	1470.8	1546.4	1622.1	1697.7	1773.3	1849.0
77.5°	942.5	1037.4	1132.3	1227.2	1322.1	1417.0	1489.2	1561.5	1633.7	1705.9	1778.2
80°	893.7	983.3	1073.0	1162.6	1252.3	1341.9	1408.9	1475.9	1542.8	1609.8	1676.8
82.5°	836.4	920.0	1003.7	1087.4	1171.0	1254.7	1315.6	1376.5	1437.4	1498.3	1559.2
85°	772.2	848.8	925.5	1002.2	1078.8	1155.5	1210.8	1266.2	1321.5	1376.8	1432.2
87.5°	705.7	775.3	844.8	914.4	983.9	1053.5	1103.3	1153.0	1202.8	1252.6	1302.3
90°	642.6	705.8	769.1	832.4	895.6	958.9	1003.7	1048.5	1093.4	1138.2	1183.0
92.5°	590.7	648.2	705.7	763.2	820.7	878.2	919.2	960.2	1001.2	1042.2	1083.3
95°	543.9	596.8	649.8	702.8	755.7	808.7	847.4	886.2	924.9	963.7	1002.4
97.5°	500.8	549.9	599.1	648.2	697.4	746.5	782.8	819.1	855.3	891.6	927.9
100°	462.9	509.0	555.2	601.4	647.5	693.7	728.6	763.6	798.5	833.4	868.4
102.5°	429.3	473.0	516.8	560.6	604.4	648.2	682.1	716.0	749.9	783.8	817.7
105°	398.3	440.0	481.6	523.2	564.9	606.5	639.4	672.2	705.1	738.0	770.8
107.5°	368.6	408.6	448.6	488.5	528.5	568.5	601.0	633.4	665.9	698.3	730.8
110°	340.8	378.9	417.0	455.2	493.3	531.4	563.3	595.3	627.2	659.2	691.1



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	316.7	352.9	389.2	425.5	461.7	498.0	529.0	560.0	591.0	622.0	653.1
115°	294.3	328.9	363.5	398.2	432.8	467.4	497.0	526.6	556.1	585.7	615.3
117.5°	272.5	305.3	338.2	371.1	403.9	436.8	465.1	493.5	521.8	550.1	578.5
120°	250.4	281.0	311.6	342.2	372.8	403.4	431.1	458.8	486.6	514.3	542.0
122.5°	227.0	255.3	283.5	311.7	340.0	368.2	395.3	422.4	449.5	476.6	503.7
125°	204.9	231.0	257.2	283.4	309.5	335.7	361.4	387.0	412.7	438.3	464.0
127.5°	182.1	206.5	230.9	255.4	279.8	304.2	327.7	351.2	374.7	398.2	421.6
130°	157.8	179.8	201.9	223.9	246.0	268.0	289.5	311.1	332.6	354.1	375.7
132.5°	133.9	153.5	173.1	192.6	212.2	231.8	252.1	272.4	292.7	313.0	333.3
135°	111.2	128.1	145.0	161.9	178.8	195.7	215.4	235.1	254.7	274.4	294.1
137.5°	90.4	105.2	119.9	134.6	149.4	164.1	182.2	200.4	218.5	236.7	254.8
140°	73.4	86.2	99.0	111.7	124.5	137.3	152.8	168.2	183.7	199.1	214.6
142.5°	58.1	68.9	79.7	90.6	101.4	112.2	125.4	138.6	151.8	165.0	178.1
145°	45.2	54.0	62.7	71.5	80.2	89.0	99.9	110.8	121.8	132.7	143.6
147.5°	35.5	42.4	49.2	56.0	62.8	69.6	78.6	87.5	96.5	105.4	114.4
150°	26.2	31.3	36.5	41.6	46.8	51.9	59.5	67.2	74.8	82.4	90.1
152.5°	18.6	22.2	25.7	29.2	32.7	36.2	42.3	48.4	54.4	60.5	66.6
155°	12.0	14.0	16.1	18.2	20.2	22.3	27.0	31.8	36.5	41.2	46.0
157.5°	7.3	8.5	9.6	10.7	11.9	13.0	16.4	19.8	23.2	26.6	30.0
160°	3.9	4.5	5.0	5.5	6.0	6.5	8.5	10.4	12.4	14.3	16.3
162.5°	1.7	2.0	2.2	2.4	2.6	2.8	3.7	4.6	5.6	6.5	7.4
165°	0.5	0.4	0.3	0.2	0.1	0.0	0.3	0.6	0.9	1.2	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	952.7	953.3	953.8	954.3	953.4	952.4	951.5	950.6	949.6	948.7	947.8
5°	970.6	971.7	972.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
7.5°	988.6	990.4	992.3	994.1	994.3	994.5	994.7	994.9	995.2	995.4	995.6
10°	1004.6	1007.6	1010.6	1013.6	1013.9	1014.2	1014.5	1014.8	1015.2	1015.5	1015.8
12.5°	1018.2	1022.3	1026.3	1030.3	1031.3	1032.4	1033.4	1034.4	1035.5	1036.5	1037.5
15°	1031.5	1036.7	1041.8	1047.0	1048.9	1050.7	1052.6	1054.4	1056.3	1058.1	1060.0
17.5°	1048.9	1056.0	1063.1	1070.2	1072.8	1075.4	1077.9	1080.5	1083.1	1085.7	1088.2
20°	1067.7	1077.2	1086.7	1096.2	1099.3	1102.4	1105.5	1108.6	1111.6	1114.7	1117.8
22.5°	1085.9	1097.1	1108.2	1119.3	1123.2	1127.1	1131.1	1135.0	1138.9	1142.8	1146.8
25°	1106.4	1119.0	1131.7	1144.4	1148.5	1152.6	1156.8	1160.9	1165.0	1169.1	1173.3
27.5°	1126.1	1140.3	1154.4	1168.5	1173.4	1178.4	1183.3	1188.3	1193.2	1198.2	1203.1
30°	1146.3	1162.3	1178.4	1194.5	1200.4	1206.2	1212.1	1218.0	1223.8	1229.7	1235.6
32.5°	1169.4	1187.6	1205.9	1224.1	1231.2	1238.3	1245.4	1252.5	1259.7	1266.8	1273.9
35°	1194.2	1215.0	1235.8	1256.6	1265.2	1273.7	1282.3	1290.8	1299.4	1307.9	1316.5
37.5°	1223.5	1247.5	1271.5	1295.5	1305.7	1315.9	1326.1	1336.3	1346.5	1356.7	1366.9
40°	1257.5	1285.1	1312.6	1340.1	1352.3	1364.4	1376.6	1388.7	1400.9	1413.0	1425.2
42.5°	1298.9	1330.5	1362.2	1393.8	1407.9	1422.0	1436.2	1450.3	1464.4	1478.5	1492.7
45°	1347.8	1384.1	1420.5	1456.9	1473.3	1489.7	1506.1	1522.5	1538.8	1555.2	1571.6
47.5°	1404.4	1446.3	1488.3	1530.2	1548.8	1567.5	1586.1	1604.8	1623.4	1642.1	1660.7
50°	1466.8	1515.1	1563.5	1611.8	1632.9	1654.0	1675.2	1696.3	1717.4	1738.5	1759.7
52.5°	1537.9	1592.9	1647.8	1702.7	1726.2	1749.7	1773.2	1796.7	1820.1	1843.6	1867.1
55°	1616.7	1677.8	1738.9	1800.0	1825.2	1850.5	1875.7	1901.0	1926.2	1951.5	1976.7
57.5°	1696.1	1763.5	1830.9	1898.3	1925.1	1951.9	1978.7	2005.5	2032.2	2059.0	2085.8
60°	1777.2	1850.0	1922.9	1995.7	2023.3	2050.9	2078.5	2106.1	2133.8	2161.4	2189.0
62.5°	1853.8	1931.1	2008.4	2085.7	2113.2	2140.7	2168.2	2195.7	2223.3	2250.8	2278.3
65°	1918.1	1998.4	2078.6	2158.9	2185.8	2212.7	2239.6	2266.5	2293.4	2320.3	2347.2
67.5°	1963.6	2045.1	2126.6	2208.1	2234.4	2260.7	2286.9	2313.2	2339.5	2365.8	2392.0
70°	1983.3	2064.4	2145.5	2226.6	2251.8	2277.1	2302.3	2327.6	2352.8	2378.1	2403.3
72.5°	1970.7	2049.8	2129.0	2208.1	2232.2	2256.3	2280.4	2304.5	2328.7	2352.8	2376.9
75°	1924.6	2000.2	2075.9	2151.5	2174.5	2197.5	2220.4	2243.4	2266.4	2289.4	2312.3
77.5°	1850.4	1922.6	1994.9	2067.1	2088.0	2108.9	2129.9	2150.8	2171.7	2192.6	2213.6
80°	1743.8	1810.7	1877.7	1944.7	1964.5	1984.3	2004.1	2023.9	2043.6	2063.4	2083.2
82.5°	1620.1	1681.0	1741.9	1802.8	1821.3	1839.9	1858.4	1877.0	1895.5	1914.1	1932.6
85°	1487.5	1542.8	1598.2	1653.5	1670.7	1687.9	1705.1	1722.3	1739.6	1756.8	1774.0
87.5°	1352.1	1401.9	1451.6	1501.4	1517.7	1534.0	1550.2	1566.5	1582.8	1599.1	1615.3
90°	1227.8	1272.7	1317.5	1362.3	1377.8	1393.2	1408.7	1424.1	1439.6	1455.0	1470.5
92.5°	1124.3	1165.3	1206.3	1247.3	1261.9	1276.6	1291.2	1305.8	1320.5	1335.1	1349.7
95°	1041.2	1079.9	1118.7	1157.4	1170.6	1183.8	1197.0	1210.2	1223.3	1236.5	1249.7
97.5°	964.2	1000.4	1036.7	1073.0	1086.2	1099.4	1112.6	1125.8	1138.9	1152.1	1165.3
100°	903.3	938.2	973.2	1008.1	1020.9	1033.6	1046.4	1059.2	1071.9	1084.7	1097.5
102.5°	851.6	885.5	919.4	953.3	965.9	978.5	991.0	1003.6	1016.2	1028.8	1041.3
105°	803.7	836.6	869.4	902.3	915.3	928.3	941.3	954.3	967.2	980.2	993.2
107.5°	763.2	795.7	828.1	860.6	873.4	886.2	898.9	911.7	924.5	937.3	950.0
110°	723.1	755.0	787.0	818.9	831.6	844.2	856.9	869.6	882.2	894.9	907.6



TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-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°	684.1	715.1	746.1	777.1	789.7	802.3	814.8	827.4	840.0	852.6	865.1
115°	644.9	674.4	704.0	733.6	746.0	758.3	770.7	783.0	795.4	807.7	820.1
117.5°	606.8	635.1	663.5	691.8	703.4	715.1	726.7	738.4	750.0	761.7	773.3
120°	569.7	597.5	625.2	652.9	663.9	674.9	686.0	697.0	708.0	719.0	730.1
122.5°	530.8	557.9	585.0	612.1	622.8	633.5	644.2	654.9	665.7	676.4	687.1
125°	489.6	515.3	540.9	566.6	577.2	587.8	598.4	609.0	619.7	630.3	640.9
127.5°	445.1	468.6	492.1	515.6	526.0	536.4	546.8	557.2	567.7	578.1	588.5
130°	397.2	418.7	440.3	461.8	471.6	481.4	491.2	501.0	510.7	520.5	530.3
132.5°	353.6	373.9	394.2	414.5	422.9	431.2	439.6	447.9	456.3	464.6	473.0
135°	313.8	333.4	353.1	372.8	379.9	387.0	394.1	401.2	408.4	415.5	422.6
137.5°	273.0	291.1	309.3	327.4	334.3	341.2	348.1	355.0	361.9	368.8	375.7
140°	230.0	245.5	260.9	276.4	283.7	291.0	298.3	305.6	313.0	320.3	327.6
142.5°	191.3	204.5	217.7	230.9	238.2	245.5	252.9	260.2	267.5	274.8	282.2
145°	154.5	165.5	176.4	187.3	194.7	202.1	209.6	217.0	224.4	231.8	239.3
147.5°	123.3	132.3	141.2	150.2	157.2	164.2	171.2	178.2	185.3	192.3	199.3
150°	97.7	105.3	113.0	120.6	126.9	133.2	139.4	145.7	152.0	158.3	164.5
152.5°	72.7	78.7	84.8	90.9	96.8	102.6	108.5	114.4	120.2	126.1	132.0
155°	50.7	55.4	60.2	64.9	70.2	75.4	80.7	85.9	91.2	96.4	101.7
157.5°	33.4	36.8	40.2	43.6	48.0	52.5	56.9	61.3	65.8	70.2	74.6
160°	18.2	20.2	22.1	24.1	27.7	31.3	34.9	38.5	42.2	45.8	49.4
162.5°	8.3	9.3	10.2	11.1	13.5	15.9	18.2	20.6	23.0	25.4	27.7
165°	1.9	2.2	2.5	2.8	4.2	5.7	7.1	8.6	10.0	11.5	12.9
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: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	927.4	927.4
2.5°	946.8	945.9
5°	973.7	973.7
7.5°	995.8	996.0
10°	1016.1	1016.4
12.5°	1038.6	1039.6
15°	1061.8	1063.7
17.5°	1090.8	1093.4
20°	1120.9	1124.0
22.5°	1150.7	1154.6
25°	1177.4	1181.5
27.5°	1208.1	1213.0
30°	1241.4	1247.3
32.5°	1281.0	1288.1
35°	1325.0	1333.6
37.5°	1377.1	1387.3
40°	1437.3	1449.5
42.5°	1506.8	1520.9
45°	1588.0	1604.4
47.5°	1679.4	1698.0
50°	1780.8	1801.9
52.5°	1890.6	1914.1
55°	2002.0	2027.2
57.5°	2112.6	2139.4
60°	2216.6	2244.2
62.5°	2305.8	2333.3
65°	2374.1	2401.0
67.5°	2418.3	2444.6
70°	2428.6	2453.8
72.5°	2401.0	2425.1
75°	2335.3	2358.3
77.5°	2234.5	2255.4
80°	2103.0	2122.8
82.5°	1951.2	1969.7
85°	1791.2	1808.4
87.5°	1631.6	1647.9
90°	1485.9	1501.4
92.5°	1364.4	1379.0
95°	1262.9	1276.1
97.5°	1178.5	1191.7
100°	1110.2	1123.0
102.5°	1053.9	1066.5
105°	1006.2	1019.2
107.5°	962.8	975.6
110°	920.2	932.9





TEST NUMBER: P201344

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	877.7	890.3
115°	832.4	844.8
117.5°	785.0	796.6
120°	741.1	752.1
122.5°	697.8	708.5
125°	651.5	662.1
127.5°	598.9	609.3
130°	540.1	549.9
132.5°	481.3	489.7
135°	429.7	436.8
137.5°	382.6	389.5
140°	334.9	342.2
142.5°	289.5	296.8
145°	246.7	254.1
147.5°	206.3	213.3
150°	170.8	177.1
152.5°	137.8	143.7
155°	106.9	112.2
157.5°	79.1	83.5
160°	53.0	56.6
162.5°	30.1	32.5
165°	14.4	15.8
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)