

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: P201342

Luminaire Tested: **4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201342  
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-L835-CD2-U  
Description: 4 ft. Low Bay Linear, 7000 lm, Frst Asym lens, 3.5K  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
2UT217098A8350C, 2UT217056A8350B  
Ballast/Driver: OSRAM  
OT50W0800CC, OT30W0440CC

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7619.2 lumens  
Efficiency: N/A  
Efficacy: 135.1 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

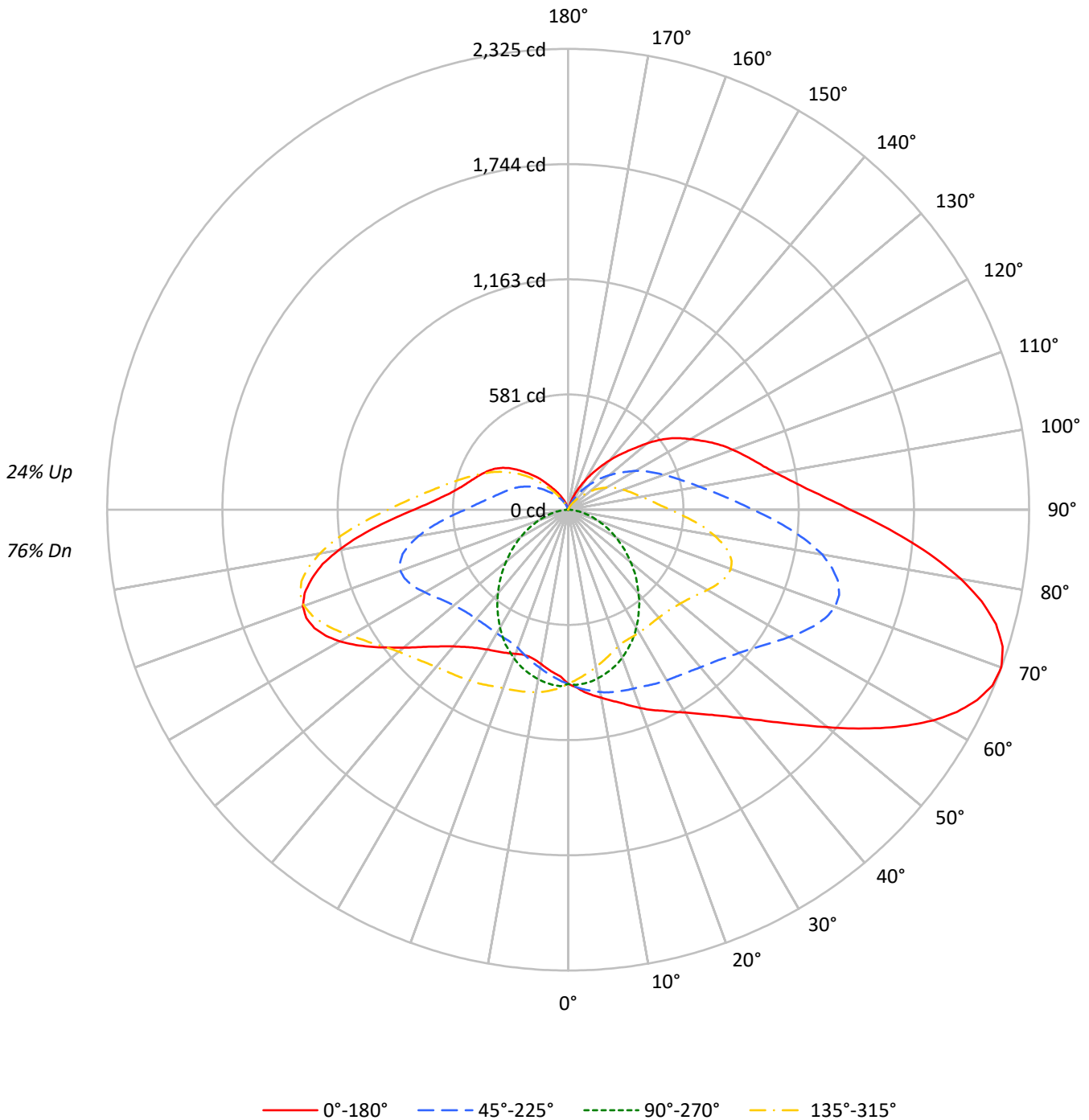
Input Watts (W): 56.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	14157	14157	14157	14157
5°	13455	14189	12058	14287
10°	12918	14002	10596	14088
15°	12604	13746	9582	13804
20°	12564	13396	9132	13425
25°	12589	12948	8922	13008
30°	12790	12410	8815	12410
35°	13275	11789	8908	11789
40°	14124	11120	9262	11104
45°	15424	10486	9906	10411
50°	17225	9707	10922	9664
55°	19416	8959	12196	8915
60°	21702	8181	13569	8181
65°	23625	7382	14673	7413
70°	24768	6484	15173	6517
75°	24626	5542	14748	5589
80°	23142	4343	13527	4536
85°	20789	2748	11727	3061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	1.1
10°-20°	243.4	3.2
20°-30°	392.6	5.2
30°-40°	532.1	7.0
40°-50°	683.7	9.0
50°-60°	874.5	11.5
60°-70°	1068.1	14.0
70°-80°	1090.5	14.3
80°-90°	855.2	11.2
90°-100°	596.8	7.8
100°-110°	444.9	5.8
110°-120°	333.0	4.4
120°-130°	225.8	3.0
130°-140°	124.7	1.6
140°-150°	53.3	0.7
150°-160°	15.7	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	719.4	9.4
0°-40°	1251.5	16.4
0°-60°	2809.7	36.9
0°-90°	5823.5	76.4
90°-120°	1374.7	18.0
90°-150°	1778.5	23.3
90°-180°	1796.0	23.6
0°-180°	7619.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	879	879	879	879	879	
5°	922	881	827	887	922	89
15°	1008	836	766	839	1008	288
25°	1119	746	793	749	1119	521
35°	1263	621	848	621	1263	799
45°	1520	484	976	481	1520	1186
55°	1920	343	1206	341	1920	1726
65°	2275	215	1413	216	2275	2241
75°	2234	106	1338	107	2234	2336
85°	1713	24	966	26	1713	1461
90°	1422	0	777	0	1422	783
95°	1209	0	652	0	1209	960
105°	966	0	524	1	966	1025
115°	800	0	454	1	800	794
125°	627	0	366	1	627	561
135°	414	0	241	1	414	325
145°	241	0	126	1	241	154
155°	106	0	56	2	106	52
165°	15	0	9	2	15	6
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	896.1	895.7	895.3	894.9	894.5	894.2	893.8	893.4	893.0	892.6	892.9
5°	922.5	921.5	920.5	919.6	918.6	917.6	916.6	915.7	914.7	913.7	913.3
7.5°	943.6	942.4	941.2	940.1	938.9	937.7	936.5	935.4	934.2	933.0	931.8
10°	962.9	961.1	959.4	957.6	955.9	954.1	952.4	950.6	948.9	947.1	945.7
12.5°	984.9	982.7	980.4	978.2	975.9	973.7	971.4	969.2	966.9	964.7	962.4
15°	1007.7	1005.2	1002.6	1000.1	997.6	995.0	992.5	990.0	987.4	984.9	981.1
17.5°	1035.8	1032.3	1028.8	1025.3	1021.8	1018.2	1014.7	1011.2	1007.7	1004.2	998.8
20°	1064.8	1060.5	1056.2	1051.9	1047.6	1043.4	1039.1	1034.8	1030.5	1026.2	1018.9
22.5°	1093.8	1088.8	1083.8	1078.9	1073.9	1068.9	1063.9	1059.0	1054.0	1049.0	1039.8
25°	1119.3	1114.2	1109.1	1104.1	1099.0	1093.9	1088.8	1083.8	1078.7	1073.6	1062.8
27.5°	1149.2	1143.5	1137.9	1132.2	1126.5	1120.9	1115.2	1109.5	1103.9	1098.2	1085.7
30°	1181.7	1175.2	1168.6	1162.1	1155.5	1149.0	1142.4	1135.9	1129.3	1122.8	1108.4
32.5°	1220.3	1212.6	1204.9	1197.2	1189.5	1181.7	1174.0	1166.3	1158.6	1150.9	1134.3
35°	1263.4	1254.4	1245.4	1236.4	1227.4	1218.5	1209.5	1200.5	1191.5	1182.5	1163.5
37.5°	1314.3	1304.0	1293.6	1283.3	1272.9	1262.6	1252.2	1241.9	1231.5	1221.2	1199.2
40°	1373.2	1361.2	1349.2	1337.2	1325.2	1313.1	1301.1	1289.1	1277.1	1265.1	1239.8
42.5°	1440.8	1427.1	1413.5	1399.8	1386.1	1372.5	1358.8	1345.1	1331.5	1317.8	1288.4
45°	1519.9	1504.1	1488.3	1472.5	1456.7	1440.8	1425.0	1409.2	1393.4	1377.6	1343.7
47.5°	1608.6	1590.6	1572.7	1554.7	1536.8	1518.8	1500.9	1482.9	1465.0	1447.0	1408.1
50°	1707.0	1687.0	1667.0	1647.0	1627.0	1606.9	1586.9	1566.9	1546.9	1526.9	1482.1
52.5°	1813.3	1791.0	1768.8	1746.5	1724.3	1702.0	1679.8	1657.5	1635.3	1613.0	1562.2
55°	1920.5	1896.9	1873.3	1849.6	1826.0	1802.4	1778.8	1755.1	1731.5	1707.9	1651.0
57.5°	2026.8	2002.0	1977.2	1952.4	1927.6	1902.9	1878.1	1853.3	1828.5	1803.7	1740.9
60°	2126.1	2100.7	2075.3	2050.0	2024.6	1999.2	1973.8	1948.5	1923.1	1897.7	1829.7
62.5°	2210.4	2185.3	2160.2	2135.2	2110.1	2085.0	2059.9	2034.9	2009.8	1984.7	1912.3
65°	2274.6	2250.9	2227.2	2203.4	2179.7	2156.0	2132.3	2108.5	2084.8	2061.1	1985.1
67.5°	2315.9	2292.8	2269.6	2246.5	2223.4	2200.2	2177.1	2154.0	2130.8	2107.7	2030.4
70°	2324.7	2302.8	2281.0	2259.1	2237.2	2215.4	2193.5	2171.6	2149.8	2127.9	2050.7
72.5°	2297.4	2276.7	2256.0	2235.3	2214.6	2194.0	2173.3	2152.6	2131.9	2111.2	2035.8
75°	2234.2	2214.8	2195.3	2175.9	2156.5	2137.0	2117.6	2098.2	2078.7	2059.3	1987.3
77.5°	2136.6	2118.4	2100.3	2082.1	2064.0	2045.8	2027.7	2009.5	1991.4	1973.2	1905.5
80°	2011.0	1994.0	1977.0	1960.0	1943.0	1926.1	1909.1	1892.1	1875.1	1858.1	1796.2
82.5°	1866.1	1850.0	1833.9	1817.8	1801.7	1785.5	1769.4	1753.3	1737.2	1721.1	1665.0
85°	1713.2	1698.0	1682.7	1667.5	1652.3	1637.0	1621.8	1606.6	1591.3	1576.1	1525.6
87.5°	1561.2	1546.7	1532.1	1517.6	1503.0	1488.5	1473.9	1459.4	1444.8	1430.3	1385.2
90°	1422.4	1408.7	1395.1	1381.4	1367.7	1354.1	1340.4	1326.7	1313.1	1299.4	1258.5
92.5°	1306.4	1293.5	1280.6	1267.7	1254.8	1242.0	1229.1	1216.2	1203.3	1190.4	1153.0
95°	1208.9	1196.6	1184.3	1172.0	1159.7	1147.4	1135.1	1122.8	1110.5	1098.2	1063.4
97.5°	1128.9	1116.9	1104.9	1092.9	1080.9	1068.9	1056.9	1044.9	1032.9	1020.9	988.0
100°	1063.9	1052.1	1040.3	1028.5	1016.7	1004.8	993.0	981.2	969.4	957.6	925.7
102.5°	1010.3	998.7	987.1	975.5	963.9	952.2	940.6	929.0	917.4	905.8	874.6
105°	965.5	954.2	942.9	931.5	920.2	908.9	897.6	886.2	874.9	863.6	832.6
107.5°	924.2	912.9	901.6	890.2	878.9	867.6	856.3	844.9	833.6	822.3	791.8
110°	883.8	872.5	861.2	849.8	838.5	827.2	815.9	804.5	793.2	781.9	752.1



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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°	843.4	832.1	820.8	809.4	798.1	786.8	775.5	764.1	752.8	741.5	712.7
115°	800.4	789.2	777.9	766.7	755.5	744.2	733.0	721.8	710.5	699.3	671.8
117.5°	754.7	744.1	733.4	722.8	712.1	701.5	690.8	680.2	669.5	658.9	632.6
120°	712.5	702.3	692.2	682.0	671.9	661.7	651.6	641.4	631.3	621.1	595.6
122.5°	671.2	661.5	651.9	642.2	632.5	622.9	613.2	603.5	593.9	584.2	559.0
125°	627.3	617.8	608.4	598.9	589.4	580.0	570.5	561.0	551.6	542.1	518.0
127.5°	577.2	568.1	559.0	550.0	540.9	531.8	522.7	513.7	504.6	495.5	473.5
130°	521.0	512.5	504.0	495.5	487.0	478.5	470.0	461.5	453.0	444.5	425.2
132.5°	463.9	456.7	449.5	442.2	435.0	427.8	420.6	413.3	406.1	398.9	381.6
135°	413.8	407.7	401.7	395.6	389.6	383.5	377.5	371.4	365.4	359.3	343.4
137.5°	369.0	363.4	357.9	352.3	346.7	341.2	335.6	330.0	324.5	318.9	304.3
140°	324.2	319.2	314.2	309.3	304.3	299.3	294.3	289.4	284.4	279.4	266.3
142.5°	281.1	276.8	272.5	268.2	263.9	259.7	255.4	251.1	246.8	242.5	230.9
145°	240.7	236.8	232.9	229.0	225.1	221.2	217.3	213.4	209.5	205.6	195.6
147.5°	202.1	199.0	195.9	192.7	189.6	186.5	183.4	180.2	177.1	174.0	165.3
150°	167.8	165.1	162.3	159.6	156.9	154.1	151.4	148.7	145.9	143.2	135.7
152.5°	136.2	133.9	131.5	129.2	126.8	124.5	122.1	119.8	117.4	115.1	108.7
155°	106.3	104.3	102.4	100.4	98.5	96.5	94.6	92.6	90.7	88.7	83.1
157.5°	79.1	77.5	76.0	74.4	72.8	71.3	69.7	68.1	66.6	65.0	60.4
160°	53.6	52.3	51.1	49.8	48.5	47.3	46.0	44.7	43.5	42.2	39.0
162.5°	30.7	29.8	28.9	28.1	27.2	26.3	25.4	24.6	23.7	22.8	20.9
165°	14.9	14.4	13.9	13.4	12.9	12.5	12.0	11.5	11.0	10.5	9.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	893.2	893.5	893.8	894.0	894.3	894.6	894.9	895.2	893.4	891.7	889.9
5°	912.9	912.5	912.1	911.8	911.4	911.0	910.6	910.2	907.5	904.7	902.0
7.5°	930.7	929.5	928.3	927.2	926.0	924.8	923.7	922.5	918.8	915.1	911.4
10°	944.4	943.0	941.6	940.3	938.9	937.5	936.2	934.8	929.7	924.6	919.6
12.5°	960.0	957.7	955.3	953.0	950.6	948.3	945.9	943.6	937.3	930.9	924.6
15°	977.3	973.5	969.7	965.8	962.0	958.2	954.4	950.6	943.0	935.4	927.8
17.5°	993.5	988.1	982.7	977.4	972.0	966.6	961.3	955.9	946.8	937.7	928.7
20°	1011.6	1004.2	996.9	989.6	982.3	974.9	967.6	960.3	949.7	939.0	928.4
22.5°	1030.6	1021.5	1012.3	1003.1	993.9	984.8	975.6	966.4	953.7	941.0	928.3
25°	1051.9	1041.1	1030.3	1019.4	1008.6	997.8	986.9	976.1	960.9	945.6	930.4
27.5°	1073.2	1060.7	1048.2	1035.7	1023.2	1010.7	998.2	985.7	967.6	949.6	931.5
30°	1094.1	1079.7	1065.4	1051.0	1036.7	1022.3	1008.0	993.6	972.6	951.6	930.7
32.5°	1117.7	1101.1	1084.5	1068.0	1051.4	1034.8	1018.2	1001.6	978.0	954.3	930.7
35°	1144.4	1125.4	1106.4	1087.3	1068.3	1049.3	1030.2	1011.2	984.5	957.7	931.0
37.5°	1177.3	1155.3	1133.3	1111.4	1089.4	1067.4	1045.5	1023.5	993.6	963.8	933.9
40°	1214.5	1189.3	1164.0	1138.7	1113.4	1088.2	1062.9	1037.6	1004.7	971.8	938.9
42.5°	1259.0	1229.7	1200.3	1170.9	1141.5	1112.2	1082.8	1053.4	1017.2	981.0	944.7
45°	1309.8	1276.0	1242.1	1208.2	1174.3	1140.5	1106.6	1072.7	1032.8	992.9	952.9
47.5°	1369.3	1330.4	1291.6	1252.7	1213.9	1175.0	1136.2	1097.3	1053.1	1008.9	964.6
50°	1437.3	1392.5	1347.7	1302.9	1258.1	1213.3	1168.5	1123.7	1075.1	1026.5	977.9
52.5°	1511.5	1460.7	1410.0	1359.2	1308.5	1257.7	1207.0	1156.2	1102.5	1048.8	995.1
55°	1594.1	1537.2	1480.3	1423.3	1366.4	1309.5	1252.6	1195.7	1136.4	1077.2	1017.9
57.5°	1678.2	1615.4	1552.6	1489.9	1427.1	1364.3	1301.6	1238.8	1173.7	1108.6	1043.5
60°	1761.6	1693.6	1625.5	1557.5	1489.4	1421.4	1353.3	1285.3	1214.1	1143.0	1071.8
62.5°	1839.8	1767.4	1695.0	1622.5	1550.1	1477.7	1405.2	1332.8	1255.6	1178.4	1101.1
65°	1909.0	1833.0	1756.9	1680.9	1604.8	1528.8	1452.7	1376.7	1293.5	1210.4	1127.2
67.5°	1953.1	1875.7	1798.4	1721.1	1643.8	1566.4	1489.1	1411.8	1323.6	1235.3	1147.1
70°	1973.5	1896.2	1819.0	1741.8	1664.6	1587.3	1510.1	1432.9	1340.8	1248.8	1156.7
72.5°	1960.5	1885.1	1809.7	1734.4	1659.0	1583.6	1508.3	1432.9	1339.1	1245.3	1151.5
75°	1915.2	1843.2	1771.2	1699.1	1627.1	1555.1	1483.0	1411.0	1317.4	1223.8	1130.1
77.5°	1837.7	1770.0	1702.2	1634.5	1566.7	1499.0	1431.2	1363.5	1272.4	1181.3	1090.3
80°	1734.3	1672.4	1610.5	1548.7	1486.8	1424.9	1363.0	1301.1	1213.9	1126.8	1039.6
82.5°	1608.8	1552.7	1496.6	1440.4	1384.3	1328.2	1272.0	1215.9	1134.7	1053.5	972.3
85°	1475.2	1424.7	1374.2	1323.8	1273.3	1222.8	1172.4	1121.9	1047.3	972.7	898.2
87.5°	1340.1	1295.0	1249.9	1204.8	1159.7	1114.6	1069.5	1024.4	956.8	889.1	821.5
90°	1217.6	1176.7	1135.8	1094.9	1054.0	1013.1	972.2	931.3	870.1	808.9	747.7
92.5°	1115.6	1078.3	1040.9	1003.5	966.1	928.8	891.4	854.0	798.4	742.7	687.1
95°	1028.7	993.9	959.2	924.4	889.7	854.9	820.2	785.4	734.3	683.3	632.2
97.5°	955.1	922.2	889.3	856.4	823.5	790.6	757.7	724.8	677.6	630.3	583.1
100°	893.8	861.8	829.9	798.0	766.1	734.1	702.2	670.3	626.4	582.5	538.5
102.5°	843.3	812.1	780.9	749.6	718.4	687.2	655.9	624.7	583.1	541.5	499.9
105°	801.5	770.5	739.4	708.4	677.3	646.3	615.2	584.2	544.6	504.9	465.3
107.5°	761.4	730.9	700.5	670.0	639.6	609.1	578.7	548.2	510.1	472.1	434.0
110°	722.4	692.6	662.8	633.1	603.3	573.5	543.8	514.0	477.5	441.0	404.5





TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	683.9	655.1	626.3	597.5	568.7	539.9	511.1	482.3	447.4	412.4	377.5
115°	644.3	616.7	589.2	561.7	534.2	506.6	479.1	451.6	418.3	385.0	351.7
117.5°	606.4	580.1	553.9	527.6	501.4	475.1	448.9	422.6	391.0	359.3	327.7
120°	570.1	544.7	519.2	493.7	468.2	442.8	417.3	391.8	362.1	332.5	302.8
122.5°	533.8	508.7	483.5	458.3	433.1	408.0	382.8	357.6	330.3	302.9	275.6
125°	493.9	469.8	445.7	421.5	397.4	373.3	349.2	325.1	300.0	274.9	249.8
127.5°	451.6	429.6	407.6	385.7	363.7	341.7	319.8	297.8	274.4	251.0	227.5
130°	405.9	386.5	367.2	347.9	328.6	309.2	289.9	270.6	248.9	227.3	205.6
132.5°	364.3	347.1	329.8	312.5	295.2	278.0	260.7	243.4	223.5	203.6	183.6
135°	327.5	311.6	295.7	279.7	263.8	247.9	232.0	216.1	198.0	180.0	161.9
137.5°	289.6	275.0	260.3	245.7	231.0	216.4	201.7	187.1	171.1	155.1	139.1
140°	253.2	240.2	227.1	214.0	200.9	187.9	174.8	161.7	147.2	132.8	118.3
142.5°	219.3	207.6	196.0	184.4	172.8	161.1	149.5	137.9	125.1	112.3	99.5
145°	185.7	175.7	165.8	155.8	145.9	135.9	126.0	116.0	104.8	93.5	82.3
147.5°	156.6	147.9	139.2	130.6	121.9	113.2	104.5	95.8	86.2	76.7	67.1
150°	128.2	120.7	113.2	105.6	98.1	90.6	83.1	75.6	67.9	60.2	52.4
152.5°	102.2	95.8	89.3	82.9	76.4	70.0	63.5	57.1	51.1	45.2	39.2
155°	77.6	72.0	66.5	60.9	55.4	49.8	44.3	38.7	34.5	30.3	26.1
157.5°	55.8	51.2	46.6	42.1	37.5	32.9	28.3	23.7	21.1	18.4	15.8
160°	35.8	32.5	29.3	26.1	22.9	19.6	16.4	13.2	11.7	10.3	8.8
162.5°	19.1	17.2	15.4	13.5	11.7	9.8	8.0	6.1	5.4	4.7	4.1
165°	8.6	7.6	6.6	5.7	4.7	3.7	2.8	1.8	1.6	1.4	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	888.2	886.4	884.7	882.9	881.2	879.4	880.0	880.6	881.2	881.8	882.3
5°	899.3	896.5	893.8	891.1	888.3	885.6	885.1	884.6	884.1	883.6	883.2
7.5°	907.7	903.9	900.2	896.5	892.8	889.1	887.5	886.0	884.4	882.8	881.3
10°	914.5	909.4	904.3	899.3	894.2	889.1	886.3	883.4	880.6	877.8	874.9
12.5°	918.2	911.9	905.5	899.2	892.8	886.5	882.5	878.5	874.5	870.5	866.4
15°	920.2	912.5	904.9	897.3	889.7	882.1	876.9	871.7	866.6	861.4	856.2
17.5°	919.6	910.5	901.4	892.4	883.3	874.2	867.9	861.5	855.2	848.8	842.5
20°	917.7	907.1	896.4	885.8	875.1	864.5	856.9	849.3	841.7	834.1	826.4
22.5°	915.6	903.0	890.3	877.6	864.9	852.2	843.2	834.2	825.3	816.3	807.3
25°	915.2	899.9	884.7	869.5	854.2	839.0	828.7	818.3	808.0	797.6	787.3
27.5°	913.5	895.4	877.4	859.3	841.3	823.2	811.5	799.8	788.1	776.4	764.6
30°	909.7	888.7	867.7	846.8	825.8	804.8	791.7	778.6	765.5	752.4	739.4
32.5°	907.1	883.4	859.8	836.2	812.5	788.9	774.1	759.2	744.4	729.6	714.7
35°	904.2	877.5	850.7	824.0	797.2	770.5	753.9	737.3	720.7	704.1	687.5
37.5°	904.0	874.2	844.3	814.4	784.6	754.7	736.3	718.0	699.6	681.3	662.9
40°	906.0	873.1	840.2	807.3	774.4	741.5	720.4	699.3	678.2	657.1	636.1
42.5°	908.5	872.3	836.1	799.8	763.6	727.4	703.9	680.4	656.8	633.3	609.8
45°	913.0	873.1	833.2	793.2	753.3	713.4	687.9	662.4	637.0	611.5	586.0
47.5°	920.4	876.2	832.0	787.7	743.5	699.3	671.3	643.3	615.3	587.3	559.2
50°	929.3	880.6	832.0	783.4	734.8	686.2	655.6	625.1	594.5	564.0	533.4
52.5°	941.4	887.8	834.1	780.4	726.7	673.0	640.1	607.2	574.3	541.4	508.5
55°	958.7	899.4	840.2	780.9	721.7	662.4	626.9	591.3	555.8	520.3	484.7
57.5°	978.4	913.2	848.1	783.0	717.9	652.8	614.6	576.5	538.3	500.1	462.0
60°	1000.7	929.5	858.4	787.2	716.1	644.9	604.0	563.1	522.2	481.3	440.3
62.5°	1023.9	946.7	869.5	792.2	715.0	637.8	594.3	550.7	507.2	463.7	420.1
65°	1044.0	960.9	877.7	794.5	711.4	628.2	582.3	536.4	490.5	444.6	398.8
67.5°	1058.8	970.6	882.3	794.1	705.8	617.6	569.5	521.4	473.2	425.1	377.0
70°	1064.7	972.6	880.6	788.5	696.5	604.4	554.7	505.0	455.4	405.7	356.0
72.5°	1057.7	963.8	870.0	776.2	682.4	588.6	537.7	486.9	436.0	385.2	334.3
75°	1036.5	942.9	849.3	755.6	662.0	568.4	517.1	465.7	414.4	363.0	311.7
77.5°	999.2	908.1	817.0	726.0	634.9	543.8	492.6	441.3	390.1	338.8	287.6
80°	952.4	865.3	778.1	690.9	603.8	516.6	465.9	415.3	364.6	313.9	263.3
82.5°	891.1	809.8	728.6	647.4	566.2	485.0	435.7	386.4	337.1	287.8	238.5
85°	823.6	749.0	674.4	599.9	525.3	450.7	403.3	355.8	308.4	260.9	213.5
87.5°	753.8	686.2	618.5	550.9	483.2	415.6	370.4	325.2	280.0	234.8	189.6
90°	686.5	625.2	564.0	502.8	441.6	380.4	338.1	295.9	253.6	211.3	169.1
92.5°	631.4	575.8	520.1	464.5	408.8	353.2	314.0	274.7	235.5	196.2	157.0
95°	581.2	530.1	479.1	428.0	377.0	325.9	289.7	253.5	217.3	181.1	144.8
97.5°	535.8	488.6	441.3	394.1	346.8	299.6	266.3	233.0	199.7	166.4	133.2
100°	494.6	450.7	406.8	362.8	318.9	275.0	244.4	213.9	183.3	152.8	122.2
102.5°	458.3	416.8	375.2	333.6	292.0	250.4	222.6	194.8	166.9	139.1	111.3
105°	425.7	386.0	346.4	306.8	267.1	227.5	202.2	176.9	151.7	126.4	101.1
107.5°	395.9	357.9	319.8	281.7	243.7	205.6	182.8	159.9	137.1	114.2	91.4
110°	368.0	331.4	294.9	258.4	221.9	185.4	164.8	144.2	123.6	103.0	82.4



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	342.5	307.6	272.6	237.7	202.7	167.8	149.2	130.5	111.9	93.2	74.6
115°	318.4	285.2	251.9	218.6	185.3	152.0	135.1	118.2	101.3	84.4	67.6
117.5°	296.1	264.4	232.8	201.2	169.5	137.9	122.6	107.3	91.9	76.6	61.3
120°	273.1	243.5	213.8	184.1	154.5	124.8	110.9	97.1	83.2	69.3	55.5
122.5°	248.3	220.9	193.6	166.3	138.9	111.6	99.2	86.8	74.4	62.0	49.6
125°	224.7	199.7	174.6	149.5	124.4	99.3	88.3	77.2	66.2	55.2	44.1
127.5°	204.1	180.7	157.3	133.8	110.4	87.0	77.3	67.7	58.0	48.3	38.7
130°	183.9	162.3	140.6	118.9	97.3	75.6	67.2	58.8	50.4	42.0	33.6
132.5°	163.7	143.8	123.9	103.9	84.0	64.1	57.0	49.9	42.7	35.6	28.5
135°	143.9	125.8	107.8	89.7	71.7	53.6	47.6	41.7	35.7	29.8	23.8
137.5°	123.1	107.0	91.0	75.0	59.0	43.0	38.2	33.4	28.7	23.9	19.1
140°	103.9	89.4	75.0	60.5	46.1	31.6	28.1	24.6	21.1	17.6	14.0
142.5°	86.7	74.0	61.2	48.4	35.6	22.8	20.3	17.7	15.2	12.7	10.1
145°	71.1	59.8	48.6	37.4	26.1	14.9	13.2	11.6	9.9	8.3	6.6
147.5°	57.5	48.0	38.4	28.8	19.3	9.7	8.6	7.5	6.5	5.4	4.3
150°	44.7	37.0	29.3	21.5	13.8	6.1	5.4	4.7	4.1	3.4	2.7
152.5°	33.3	27.3	21.4	15.4	9.5	3.5	3.1	2.7	2.3	1.9	1.6
155°	21.9	17.7	13.5	9.3	5.1	0.9	0.8	0.7	0.6	0.5	0.4
157.5°	13.2	10.5	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	7.3	5.9	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.4	2.7	2.0	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.0	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: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	882.9	883.5	884.1	884.7	882.6	880.4	878.3	876.1	874.0	871.8	869.7
5°	882.7	882.2	881.7	881.2	878.2	875.2	872.1	869.1	866.1	863.1	860.0
7.5°	879.7	878.1	876.6	875.0	871.0	867.0	863.0	859.0	855.0	851.0	847.0
10°	872.1	869.3	866.4	863.6	859.1	854.6	850.1	845.6	841.2	836.7	832.2
12.5°	862.4	858.4	854.4	850.4	845.4	840.4	835.5	830.5	825.5	820.5	815.6
15°	851.0	845.9	840.7	835.5	829.9	824.4	818.8	813.2	807.7	802.1	796.5
17.5°	836.1	829.8	823.4	817.1	811.2	805.4	799.5	793.6	787.8	781.9	776.0
20°	818.8	811.2	803.6	796.0	789.9	783.9	777.8	771.8	765.7	759.7	753.6
22.5°	798.3	789.4	780.4	771.4	765.4	759.5	753.5	747.6	741.6	735.7	729.7
25°	776.9	766.6	756.2	745.9	739.9	734.0	728.0	722.1	716.1	710.2	704.2
27.5°	752.9	741.2	729.5	717.8	712.1	706.5	700.8	695.1	689.5	683.8	678.1
30°	726.3	713.2	700.1	687.0	681.8	676.7	671.5	666.3	661.2	656.0	650.8
32.5°	699.9	685.1	670.2	655.4	650.8	646.2	641.6	637.0	632.5	627.9	623.3
35°	670.9	654.3	637.7	621.1	617.6	614.1	610.6	607.1	603.5	600.0	596.5
37.5°	644.6	626.2	607.9	589.5	587.4	585.2	583.1	580.9	578.8	576.6	574.5
40°	615.0	593.9	572.8	551.7	551.6	551.5	551.4	551.3	551.3	551.2	551.1
42.5°	586.3	562.7	539.2	515.7	517.8	519.8	521.9	523.9	526.0	528.0	530.1
45°	560.5	535.1	509.6	484.1	487.8	491.5	495.2	498.9	502.7	506.4	510.1
47.5°	531.2	503.2	475.2	447.2	453.3	459.3	465.4	471.4	477.5	483.5	489.6
50°	502.9	472.3	441.8	411.2	419.6	428.0	436.4	444.8	453.1	461.5	469.9
52.5°	475.6	442.7	409.8	376.9	387.4	398.0	408.5	419.1	429.6	440.2	450.7
55°	449.2	413.7	378.1	342.6	355.4	368.2	381.0	393.8	406.5	419.3	432.1
57.5°	423.8	385.6	347.5	309.3	324.3	339.3	354.4	369.4	384.4	399.4	414.5
60°	399.4	358.5	317.6	276.7	294.0	311.3	328.5	345.8	363.1	380.4	397.6
62.5°	376.6	333.1	289.5	246.0	265.2	284.5	303.7	322.9	342.2	361.4	380.6
65°	352.9	307.0	261.1	215.2	236.4	257.6	278.8	300.0	321.1	342.3	363.5
67.5°	328.9	280.7	232.6	184.5	207.5	230.6	253.6	276.6	299.7	322.7	345.7
70°	306.3	256.7	207.0	157.3	181.6	205.9	230.2	254.5	278.8	303.1	327.4
72.5°	283.5	232.6	181.8	130.9	156.2	181.5	206.8	232.1	257.3	282.6	307.9
75°	260.3	209.0	157.6	106.3	132.2	158.0	183.9	209.8	235.6	261.5	287.4
77.5°	236.3	185.1	133.8	82.6	108.8	134.9	161.1	187.2	213.4	239.5	265.7
80°	212.6	161.9	111.3	60.6	86.7	112.7	138.8	164.9	190.9	217.0	243.1
82.5°	189.2	139.9	90.6	41.3	66.9	92.5	118.0	143.6	169.2	194.8	220.3
85°	166.0	118.6	71.1	23.7	48.7	73.7	98.7	123.7	148.6	173.6	198.6
87.5°	144.4	99.2	54.0	8.8	32.6	56.4	80.3	104.1	127.9	151.7	175.6
90°	126.8	84.5	42.3	0.0	22.4	44.7	67.1	89.4	111.8	134.1	156.5
92.5°	117.7	78.5	39.2	0.0	20.7	41.4	62.1	82.8	103.5	124.2	144.9
95°	108.6	72.4	36.2	0.0	19.1	38.3	57.4	76.5	95.7	114.8	133.9
97.5°	99.9	66.6	33.3	0.0	17.8	35.5	53.3	71.1	88.8	106.6	124.4
100°	91.7	61.1	30.6	0.0	16.3	32.6	48.9	65.2	81.5	97.8	114.1
102.5°	83.5	55.6	27.8	0.0	15.0	30.1	45.1	60.1	75.2	90.2	105.2
105°	75.8	50.6	25.3	0.0	13.8	27.5	41.3	55.1	68.8	82.6	96.4
107.5°	68.5	45.7	22.8	0.0	12.6	25.2	37.8	50.4	62.9	75.5	88.1
110°	61.8	41.2	20.6	0.0	11.4	22.8	34.3	45.7	57.1	68.5	80.0



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	55.9	37.3	18.6	0.0	10.3	20.7	31.0	41.4	51.7	62.1	72.4
115°	50.7	33.8	16.9	0.0	9.2	18.4	27.5	36.7	45.9	55.1	64.2
117.5°	46.0	30.6	15.3	0.0	8.2	16.4	24.6	32.8	41.0	49.2	57.4
120°	41.6	27.7	13.9	0.0	7.3	14.6	22.0	29.3	36.6	43.9	51.3
122.5°	37.2	24.8	12.4	0.0	6.5	13.1	19.6	26.2	32.7	39.3	45.8
125°	33.1	22.1	11.0	0.0	5.8	11.5	17.3	23.0	28.8	34.5	40.3
127.5°	29.0	19.3	9.7	0.0	4.9	9.8	14.6	19.5	24.4	29.3	34.1
130°	25.2	16.8	8.4	0.0	4.1	8.2	12.3	16.4	20.5	24.6	28.7
132.5°	21.4	14.2	7.1	0.0	3.3	6.6	10.0	13.3	16.6	19.9	23.3
135°	17.9	11.9	6.0	0.0	2.6	5.3	7.9	10.5	13.2	15.8	18.4
137.5°	14.3	9.6	4.8	0.0	2.0	3.9	5.9	7.8	9.8	11.7	13.7
140°	10.5	7.0	3.5	0.0	1.4	2.7	4.1	5.5	6.8	8.2	9.6
142.5°	7.6	5.1	2.5	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4
145°	5.0	3.3	1.7	0.0	0.5	1.0	1.5	2.0	2.4	2.9	3.4
147.5°	3.2	2.2	1.1	0.0	0.3	0.6	0.9	1.2	1.4	1.7	2.0
150°	2.0	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: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	867.5	865.4	864.9	864.4	863.9	863.4	863.0	862.5	862.0	861.5	861.0
5°	857.0	854.0	852.7	851.4	850.2	848.9	847.6	846.3	845.1	843.8	842.5
7.5°	843.0	839.0	837.4	835.9	834.3	832.8	831.2	829.7	828.1	826.6	825.0
10°	827.7	823.2	821.2	819.3	817.3	815.4	813.4	811.5	809.5	807.6	805.6
12.5°	810.6	805.6	803.6	801.5	799.5	797.4	795.4	793.3	791.3	789.2	787.2
15°	791.0	785.4	783.5	781.7	779.8	778.0	776.1	774.3	772.4	770.6	768.7
17.5°	770.2	764.3	762.7	761.2	759.6	758.1	756.5	755.0	753.4	751.9	750.3
20°	747.6	741.5	740.7	739.9	739.2	738.4	737.6	736.8	736.1	735.3	734.5
22.5°	723.8	717.8	718.5	719.2	719.8	720.5	721.2	721.9	722.5	723.2	723.9
25°	698.3	692.3	695.3	698.3	701.4	704.4	707.4	710.4	713.5	716.5	719.5
27.5°	672.5	666.8	672.5	678.1	683.8	689.5	695.1	700.8	706.5	712.1	717.8
30°	645.7	640.5	648.9	657.3	665.7	674.1	682.4	690.8	699.2	707.6	716.0
32.5°	618.7	614.1	625.1	636.2	647.2	658.2	669.3	680.3	691.3	702.4	713.4
35°	593.0	589.5	603.1	616.6	630.2	643.8	657.3	670.9	684.5	698.0	711.6
37.5°	572.3	570.2	585.7	601.2	616.8	632.3	647.8	663.3	678.9	694.4	709.9
40°	551.0	550.9	568.7	586.4	604.2	622.0	639.7	657.5	675.3	693.0	710.8
42.5°	532.1	534.2	554.1	574.0	593.9	613.8	633.8	653.7	673.6	693.5	713.4
45°	513.8	517.5	539.9	562.2	584.6	606.9	629.3	651.6	674.0	696.3	718.7
47.5°	495.6	501.7	526.7	551.7	576.7	601.7	626.6	651.6	676.6	701.6	726.6
50°	478.3	486.7	514.5	542.3	570.2	598.0	625.8	653.6	681.5	709.3	737.1
52.5°	461.3	471.8	502.7	533.7	564.6	595.6	626.5	657.5	688.4	719.4	750.3
55°	444.9	457.7	492.1	526.4	560.8	595.2	629.5	663.9	698.3	732.6	767.0
57.5°	429.5	444.5	482.7	520.9	559.0	597.2	635.4	673.6	711.7	749.9	788.1
60°	414.9	432.2	474.2	516.2	558.1	600.1	642.1	684.1	726.0	768.0	810.0
62.5°	399.9	419.1	465.1	511.1	557.0	603.0	649.0	695.0	740.9	786.9	832.9
65°	384.7	405.9	455.6	505.3	555.0	604.7	654.3	704.0	753.7	803.4	853.1
67.5°	368.8	391.8	444.8	497.8	550.8	603.8	656.9	709.9	762.9	815.9	868.9
70°	351.7	376.0	431.3	486.5	541.8	597.0	652.3	707.5	762.8	818.0	873.3
72.5°	333.2	358.5	414.7	470.9	527.2	583.4	639.6	695.8	752.1	808.3	864.5
75°	313.2	339.1	394.9	450.8	506.6	562.5	618.3	674.2	730.0	785.9	841.7
77.5°	291.8	318.0	371.5	425.0	478.5	532.0	585.5	639.0	692.5	746.0	799.5
80°	269.1	295.2	345.5	395.8	446.0	496.3	546.6	596.9	647.1	697.4	747.7
82.5°	245.9	271.5	318.5	365.6	412.6	459.7	506.7	553.8	600.8	647.9	694.9
85°	223.6	248.6	290.9	333.1	375.4	417.7	459.9	502.2	544.5	586.7	629.0
87.5°	199.4	223.2	261.4	299.5	337.7	375.9	414.0	452.2	490.4	528.5	566.7
90°	178.8	201.2	236.0	270.9	305.7	340.6	375.4	410.3	445.1	480.0	514.8
92.5°	165.6	186.3	217.5	248.8	280.0	311.2	342.5	373.7	404.9	436.2	467.4
95°	153.1	172.2	201.3	230.4	259.5	288.6	317.6	346.7	375.8	404.9	434.0
97.5°	142.1	159.9	186.8	213.8	240.7	267.7	294.6	321.6	348.5	375.5	402.4
100°	130.4	146.7	172.1	197.5	222.8	248.2	273.6	299.0	324.3	349.7	375.1
102.5°	120.3	135.3	159.4	183.5	207.6	231.7	255.9	280.0	304.1	328.2	352.3
105°	110.1	123.9	147.0	170.2	193.3	216.4	239.6	262.7	285.8	309.0	332.1
107.5°	100.7	113.3	135.5	157.6	179.8	202.0	224.1	246.3	268.5	290.6	312.8
110°	91.4	102.8	124.2	145.6	166.9	188.3	209.7	231.1	252.4	273.8	295.2



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	82.8	93.1	113.6	134.1	154.6	175.1	195.6	216.1	236.6	257.1	277.6
115°	73.4	82.6	102.3	122.0	141.8	161.5	181.2	200.9	220.7	240.4	260.1
117.5°	65.6	73.8	92.4	111.1	129.7	148.4	167.0	185.7	204.3	223.0	241.6
120°	58.6	65.9	83.4	100.9	118.3	135.8	153.3	170.8	188.2	205.7	223.2
122.5°	52.4	58.9	74.9	90.9	106.9	122.9	138.9	154.9	170.9	186.9	202.9
125°	46.0	51.8	66.4	81.1	95.7	110.4	125.0	139.7	154.3	169.0	183.6
127.5°	39.0	43.9	57.2	70.5	83.7	97.0	110.3	123.6	136.8	150.1	163.4
130°	32.8	36.9	48.3	59.7	71.2	82.6	94.0	105.4	116.9	128.3	139.7
132.5°	26.6	29.9	39.7	49.4	59.2	68.9	78.7	88.4	98.2	107.9	117.7
135°	21.1	23.7	32.2	40.7	49.2	57.7	66.2	74.7	83.2	91.7	100.2
137.5°	15.6	17.6	25.0	32.4	39.8	47.2	54.7	62.1	69.5	76.9	84.3
140°	10.9	12.3	18.7	25.2	31.6	38.1	44.5	51.0	57.4	63.9	70.3
142.5°	6.2	7.0	12.6	18.1	23.7	29.3	34.8	40.4	46.0	51.5	57.1
145°	3.9	4.4	9.0	13.6	18.2	22.8	27.3	31.9	36.5	41.1	45.7
147.5°	2.3	2.6	6.2	9.8	13.4	17.0	20.7	24.3	27.9	31.5	35.1
150°	0.8	0.9	3.7	6.6	9.4	12.2	15.1	17.9	20.7	23.6	26.4
152.5°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	12.3	14.3	16.4	18.4
155°	0.0	0.0	1.3	2.5	3.8	5.1	6.3	7.6	8.9	10.1	11.4
157.5°	0.0	0.0	0.5	1.0	1.5	2.0	2.4	2.9	3.4	3.9	4.4
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: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	859.9	858.8	857.8	856.7	855.6	854.5	853.5	852.4	851.3	850.4	849.5
5°	841.2	840.0	838.7	837.4	836.2	834.9	833.6	832.4	831.1	830.6	830.1
7.5°	823.6	822.3	820.9	819.5	818.2	816.8	815.4	814.1	812.7	812.2	811.7
10°	804.4	803.3	802.1	800.9	799.8	798.6	797.4	796.3	795.1	794.5	793.9
12.5°	786.2	785.2	784.3	783.3	782.3	781.3	780.4	779.4	778.4	778.0	777.6
15°	768.2	767.7	767.2	766.7	766.3	765.8	765.3	764.8	764.3	764.5	764.7
17.5°	751.1	751.9	752.6	753.4	754.2	755.0	755.7	756.5	757.3	758.3	759.3
20°	737.3	740.2	743.0	745.8	748.7	751.5	754.3	757.2	760.0	761.6	763.1
22.5°	728.6	733.3	738.0	742.7	747.3	752.0	756.7	761.4	766.1	768.1	770.0
25°	725.5	731.4	737.4	743.3	749.3	755.2	761.2	767.1	773.1	775.3	777.6
27.5°	724.6	731.5	738.3	745.1	752.0	758.8	765.6	772.5	779.3	781.9	784.6
30°	723.8	731.6	739.4	747.2	755.1	762.9	770.7	778.5	786.3	789.4	792.5
32.5°	722.5	731.6	740.6	749.7	758.8	767.9	776.9	786.0	795.1	798.9	802.7
35°	722.1	732.7	743.2	753.8	764.3	774.9	785.4	796.0	806.5	811.1	815.7
37.5°	722.3	734.7	747.1	759.5	771.8	784.2	796.6	809.0	821.4	827.0	832.5
40°	725.2	739.7	754.1	768.6	783.0	797.5	811.9	826.4	840.8	847.4	854.1
42.5°	730.2	747.0	763.8	780.6	797.3	814.1	830.9	847.7	864.5	872.3	880.1
45°	738.2	757.7	777.3	796.8	816.3	835.8	855.4	874.9	894.4	903.5	912.6
47.5°	749.0	771.5	793.9	816.4	838.8	861.3	883.7	906.2	928.6	939.4	950.3
50°	763.4	789.6	815.9	842.1	868.4	894.6	920.9	947.1	973.4	985.5	997.6
52.5°	780.5	810.6	840.8	871.0	901.1	931.3	961.5	991.6	1021.8	1035.2	1048.5
55°	800.7	834.4	868.0	901.7	935.4	969.1	1002.7	1036.4	1070.1	1085.2	1100.4
57.5°	825.5	862.9	900.3	937.7	975.0	1012.4	1049.8	1087.2	1124.6	1140.8	1157.0
60°	851.3	892.6	933.9	975.2	1016.5	1057.8	1099.1	1140.4	1181.7	1198.1	1214.5
62.5°	877.1	921.3	965.6	1009.8	1054.0	1098.2	1142.5	1186.7	1230.9	1247.2	1263.5
65°	898.9	944.7	990.4	1036.2	1082.0	1127.8	1173.5	1219.3	1265.1	1281.5	1297.9
67.5°	915.7	962.4	1009.2	1055.9	1102.7	1149.4	1196.2	1242.9	1289.7	1305.2	1320.7
70°	920.1	966.8	1013.6	1060.3	1107.1	1153.8	1200.6	1247.3	1294.1	1308.5	1323.0
72.5°	910.0	955.5	1001.0	1046.5	1091.9	1137.4	1182.9	1228.4	1273.9	1287.2	1300.5
75°	884.8	928.0	971.1	1014.3	1057.4	1100.6	1143.7	1186.9	1230.0	1242.0	1254.0
77.5°	839.9	880.3	920.7	961.1	1001.6	1042.0	1082.4	1122.8	1163.2	1174.9	1186.6
80°	784.4	821.1	857.8	894.5	931.2	967.9	1004.6	1041.3	1078.0	1088.8	1099.7
82.5°	726.9	758.9	791.0	823.0	855.0	887.0	919.1	951.1	983.1	993.1	1003.0
85°	657.7	686.4	715.1	743.8	772.5	801.2	829.9	858.6	887.3	896.1	904.9
87.5°	591.8	616.9	642.0	667.1	692.1	717.2	742.3	767.4	792.5	800.6	808.7
90°	536.3	557.8	579.2	600.7	622.2	643.7	665.1	686.6	708.1	715.7	723.3
92.5°	487.2	507.0	526.8	546.6	566.5	586.3	606.1	625.9	645.7	652.4	659.2
95°	451.9	469.7	487.6	505.5	523.3	541.2	559.1	576.9	594.8	601.1	607.5
97.5°	419.3	436.2	453.1	470.0	486.8	503.7	520.6	537.5	554.4	560.4	566.3
100°	391.5	407.9	424.3	440.7	457.1	473.5	489.9	506.3	522.7	528.4	534.0
102.5°	368.2	384.1	400.0	415.9	431.9	447.8	463.7	479.6	495.5	501.2	506.8
105°	347.9	363.7	379.5	395.3	411.2	427.0	442.8	458.6	474.4	480.0	485.5
107.5°	328.7	344.6	360.5	376.4	392.4	408.3	424.2	440.1	456.0	461.5	466.9
110°	311.0	326.8	342.6	358.4	374.3	390.1	405.9	421.7	437.5	443.1	448.6





TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	293.4	309.2	325.0	340.8	356.7	372.5	388.3	404.1	419.9	425.6	431.2
115°	275.9	291.7	307.5	323.3	339.2	355.0	370.8	386.6	402.4	408.2	413.9
117.5°	257.3	273.0	288.8	304.5	320.2	335.9	351.7	367.4	383.1	389.0	395.0
120°	238.5	253.8	269.2	284.5	299.8	315.1	330.5	345.8	361.1	367.2	373.4
122.5°	217.7	232.6	247.4	262.3	277.1	292.0	306.8	321.7	336.5	342.7	349.0
125°	197.6	211.5	225.5	239.5	253.4	267.4	281.4	295.3	309.3	315.5	321.8
127.5°	176.6	189.8	202.9	216.1	229.3	242.5	255.6	268.8	282.0	288.0	293.9
130°	152.5	165.3	178.1	190.9	203.6	216.4	229.2	242.0	254.8	260.0	265.1
132.5°	129.9	142.1	154.3	166.5	178.7	190.9	203.1	215.3	227.5	232.3	237.1
135°	111.2	122.2	133.3	144.3	155.3	166.3	177.4	188.4	199.4	204.0	208.6
137.5°	93.6	102.9	112.1	121.4	130.7	140.0	149.2	158.5	167.8	172.6	177.4
140°	77.8	85.3	92.8	100.3	107.9	115.4	122.9	130.4	137.9	142.3	146.7
142.5°	63.4	69.8	76.1	82.5	88.8	95.2	101.5	107.9	114.2	118.0	121.8
145°	51.1	56.4	61.8	67.2	72.5	77.9	83.3	88.6	94.0	97.6	101.2
147.5°	39.6	44.1	48.6	53.1	57.6	62.1	66.6	71.1	75.6	79.0	82.4
150°	30.0	33.6	37.2	40.8	44.5	48.1	51.7	55.3	58.9	62.2	65.5
152.5°	21.2	24.1	26.9	29.7	32.6	35.4	38.2	41.1	43.9	47.0	50.1
155°	13.6	15.9	18.1	20.4	22.6	24.9	27.1	29.4	31.6	34.3	37.1
157.5°	6.3	8.1	10.0	11.8	13.7	15.5	17.4	19.2	21.1	23.5	26.0
160°	2.2	3.4	4.7	6.0	7.2	8.5	9.8	11.0	12.3	14.3	16.2
162.5°	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.5	5.1	6.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	848.7	847.8	846.9	846.0	845.2	844.3	843.4	844.4	845.4	846.3	847.3
5°	829.6	829.1	828.7	828.2	827.7	827.2	826.7	827.3	827.9	828.5	829.1
7.5°	811.2	810.7	810.3	809.8	809.3	808.8	808.3	808.7	809.1	809.5	809.9
10°	793.3	792.7	792.2	791.6	791.0	790.4	789.8	790.1	790.4	790.7	791.0
12.5°	777.2	776.8	776.5	776.1	775.7	775.3	774.9	775.0	775.1	775.2	775.3
15°	764.9	765.1	765.3	765.5	765.7	765.9	766.1	765.9	765.7	765.5	765.3
17.5°	760.2	761.2	762.2	763.2	764.1	765.1	766.1	765.2	764.3	763.5	762.6
20°	764.7	766.2	767.8	769.3	770.9	772.4	774.0	772.3	770.7	769.0	767.4
22.5°	772.0	773.9	775.9	777.8	779.8	781.7	783.7	781.5	779.2	777.0	774.7
25°	779.8	782.1	784.3	786.6	788.8	791.1	793.3	790.9	788.4	786.0	783.6
27.5°	787.2	789.8	792.5	795.1	797.7	800.4	803.0	800.2	797.3	794.5	791.7
30°	795.7	798.8	801.9	805.0	808.2	811.3	814.4	811.1	807.8	804.4	801.1
32.5°	806.5	810.3	814.2	818.0	821.8	825.6	829.4	825.6	821.8	818.0	814.2
35°	820.3	824.9	829.4	834.0	838.6	843.2	847.8	843.3	838.8	834.3	829.8
37.5°	838.1	843.7	849.2	854.8	860.4	865.9	871.5	865.9	860.4	854.8	849.2
40°	860.7	867.3	874.0	880.6	887.2	893.9	900.5	894.2	887.8	881.5	875.1
42.5°	887.9	895.7	903.6	911.4	919.2	927.0	934.8	927.7	920.5	913.4	906.3
45°	921.6	930.7	939.8	948.9	957.9	967.0	976.1	967.6	959.1	950.6	942.1
47.5°	961.1	972.0	982.8	993.7	1004.5	1015.4	1026.2	1016.1	1006.1	996.0	986.0
50°	1009.7	1021.8	1034.0	1046.1	1058.2	1070.3	1082.4	1071.0	1059.6	1048.1	1036.7
52.5°	1061.9	1075.3	1088.6	1102.0	1115.4	1128.7	1142.1	1129.6	1117.1	1104.6	1092.1
55°	1115.5	1130.6	1145.8	1160.9	1176.0	1191.2	1206.3	1192.6	1179.0	1165.3	1151.6
57.5°	1173.2	1189.4	1205.6	1221.8	1238.0	1254.2	1270.4	1256.0	1241.5	1227.1	1212.6
60°	1230.9	1247.3	1263.7	1280.1	1296.5	1312.9	1329.3	1314.6	1299.8	1285.1	1270.3
62.5°	1279.8	1296.1	1312.4	1328.7	1345.0	1361.3	1377.6	1363.1	1348.5	1334.0	1319.4
65°	1314.3	1330.7	1347.1	1363.5	1379.9	1396.3	1412.7	1398.5	1384.4	1370.2	1356.1
67.5°	1336.3	1351.8	1367.3	1382.8	1398.4	1413.9	1429.4	1416.0	1402.6	1389.3	1375.9
70°	1337.4	1351.9	1366.3	1380.8	1395.2	1409.7	1424.1	1411.7	1399.3	1386.9	1374.5
72.5°	1313.7	1327.0	1340.3	1353.6	1366.8	1380.1	1393.4	1381.9	1370.4	1358.8	1347.3
75°	1266.0	1278.0	1290.0	1302.0	1314.0	1326.0	1338.0	1327.5	1316.9	1306.4	1295.9
77.5°	1198.3	1210.0	1221.8	1233.5	1245.2	1256.9	1268.6	1257.9	1247.1	1236.4	1225.7
80°	1110.5	1121.3	1132.2	1143.0	1153.8	1164.7	1175.5	1165.5	1155.6	1145.6	1135.7
82.5°	1013.0	1022.9	1032.9	1042.8	1052.8	1062.7	1072.7	1063.4	1054.2	1044.9	1035.6
85°	913.7	922.5	931.2	940.0	948.8	957.6	966.4	957.9	949.4	940.9	932.4
87.5°	816.8	824.9	833.0	841.1	849.2	857.3	865.4	857.5	849.6	841.7	833.8
90°	730.9	738.5	746.2	753.8	761.4	769.0	776.6	769.4	762.2	754.9	747.7
92.5°	665.9	672.7	679.4	686.2	692.9	699.7	706.4	700.0	693.5	687.1	680.6
95°	613.8	620.2	626.5	632.9	639.2	645.6	651.9	646.0	640.2	634.3	628.5
97.5°	572.3	578.2	584.2	590.1	596.1	602.0	608.0	602.4	596.9	591.3	585.7
100°	539.7	545.4	551.0	556.7	562.4	568.0	573.7	568.3	563.0	557.6	552.2
102.5°	512.5	518.2	523.8	529.5	535.2	540.8	546.5	541.3	536.1	531.0	525.8
105°	491.1	496.7	502.2	507.8	513.4	518.9	524.5	519.3	514.1	509.0	503.8
107.5°	472.4	477.9	483.3	488.8	494.3	499.7	505.2	500.1	495.0	490.0	484.9
110°	454.2	459.8	465.3	470.9	476.5	482.0	487.6	482.5	477.4	472.4	467.3



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	436.9	442.6	448.2	453.9	459.6	465.2	470.9	465.7	460.5	455.4	450.2
115°	419.7	425.4	431.2	436.9	442.7	448.4	454.2	448.9	443.7	438.4	433.1
117.5°	400.9	406.9	412.8	418.8	424.7	430.7	436.6	431.2	425.9	420.5	415.1
120°	379.5	385.7	391.8	398.0	404.1	410.3	416.4	410.9	405.5	400.0	394.5
122.5°	355.2	361.5	367.7	374.0	380.2	386.5	392.7	387.1	381.6	376.0	370.4
125°	328.0	334.3	340.5	346.8	353.0	359.3	365.5	360.2	354.9	349.7	344.4
127.5°	299.9	305.8	311.8	317.7	323.7	329.6	335.6	330.5	325.4	320.4	315.3
130°	270.3	275.5	280.6	285.8	291.0	296.1	301.3	296.7	292.1	287.6	283.0
132.5°	241.9	246.7	251.4	256.2	261.0	265.8	270.6	266.7	262.8	258.9	255.0
135°	213.2	217.8	222.3	226.9	231.5	236.1	240.7	237.2	233.7	230.2	226.7
137.5°	182.2	187.0	191.7	196.5	201.3	206.1	210.9	207.4	203.9	200.3	196.8
140°	151.1	155.5	159.9	164.3	168.7	173.1	177.5	174.6	171.6	168.7	165.8
142.5°	125.6	129.4	133.3	137.1	140.9	144.7	148.5	146.4	144.4	142.3	140.3
145°	104.8	108.4	112.1	115.7	119.3	122.9	126.5	124.8	123.2	121.5	119.9
147.5°	85.8	89.2	92.7	96.1	99.5	102.9	106.3	104.9	103.6	102.2	100.8
150°	68.8	72.1	75.5	78.8	82.1	85.4	88.7	87.5	86.4	85.2	84.0
152.5°	53.3	56.4	59.5	62.6	65.8	68.9	72.0	71.0	70.1	69.1	68.1
155°	39.8	42.5	45.3	48.0	50.7	53.5	56.2	55.5	54.8	54.2	53.5
157.5°	28.4	30.8	33.3	35.7	38.1	40.6	43.0	42.4	41.8	41.3	40.7
160°	18.2	20.1	22.1	24.0	26.0	27.9	29.9	29.5	29.1	28.7	28.3
162.5°	8.2	9.8	11.3	12.9	14.5	16.0	17.6	17.4	17.2	17.0	16.8
165°	2.9	3.9	4.9	5.9	6.8	7.8	8.8	8.8	8.8	8.8	8.8
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: P201342

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	848.3	849.3	850.2	851.2	852.2	853.6	854.9	856.3	857.7	859.0	860.4
5°	829.6	830.2	830.8	831.4	832.0	833.7	835.3	837.0	838.6	840.3	841.9
7.5°	810.2	810.6	811.0	811.4	811.8	813.8	815.9	817.9	820.0	822.0	824.1
10°	791.3	791.6	791.9	792.2	792.5	794.5	796.6	798.6	800.7	802.7	804.8
12.5°	775.4	775.5	775.6	775.7	775.8	777.9	780.1	782.2	784.4	786.5	788.7
15°	765.1	764.9	764.7	764.5	764.3	765.7	767.0	768.4	769.8	771.1	772.5
17.5°	761.7	760.8	760.0	759.1	758.2	758.3	758.4	758.5	758.6	758.7	758.8
20°	765.7	764.1	762.4	760.8	759.1	757.2	755.4	753.5	751.7	749.8	748.0
22.5°	772.5	770.2	768.0	765.7	763.5	759.9	756.3	752.7	749.1	745.4	741.8
25°	781.1	778.7	776.3	773.8	771.4	766.2	761.0	755.9	750.7	745.5	740.3
27.5°	788.8	786.0	783.2	780.3	777.5	771.5	765.4	759.4	753.3	747.3	741.2
30°	797.8	794.5	791.1	787.8	784.5	777.4	770.3	763.1	756.0	748.9	741.8
32.5°	810.3	806.5	802.7	798.9	795.1	786.5	777.9	769.3	760.7	752.2	743.6
35°	825.4	820.9	816.4	811.9	807.4	797.2	787.1	776.9	766.8	756.6	746.5
37.5°	843.7	838.1	832.5	827.0	821.4	809.8	798.2	786.6	775.0	763.3	751.7
40°	868.8	862.4	856.1	849.7	843.4	829.6	815.9	802.1	788.3	774.6	760.8
42.5°	899.1	892.0	884.9	877.7	870.6	854.2	837.8	821.4	805.0	788.7	772.3
45°	933.6	925.1	916.6	908.1	899.6	880.7	861.7	842.8	823.9	804.9	786.0
47.5°	975.9	965.9	955.8	945.8	935.7	913.8	892.0	870.1	848.2	826.4	804.5
50°	1025.3	1013.9	1002.4	991.0	979.6	954.2	928.8	903.5	878.1	852.7	827.3
52.5°	1079.7	1067.2	1054.7	1042.2	1029.7	1000.5	971.3	942.1	912.9	883.8	854.6
55°	1138.0	1124.3	1110.6	1097.0	1083.3	1050.3	1017.3	984.3	951.3	918.3	885.3
57.5°	1198.2	1183.7	1169.3	1154.8	1140.4	1103.6	1066.8	1030.0	993.2	956.3	919.5
60°	1255.6	1240.8	1226.1	1211.3	1196.6	1156.4	1116.2	1075.9	1035.7	995.5	955.3
62.5°	1304.9	1290.3	1275.8	1261.2	1246.7	1203.6	1160.6	1117.5	1074.5	1031.4	988.4
65°	1341.9	1327.8	1313.6	1299.5	1285.3	1240.4	1195.5	1150.6	1105.7	1060.8	1015.9
67.5°	1362.5	1349.1	1335.8	1322.4	1309.0	1263.1	1217.2	1171.4	1125.5	1079.6	1033.7
70°	1362.2	1349.8	1337.4	1325.0	1312.6	1266.8	1221.0	1175.2	1129.4	1083.7	1037.9
72.5°	1335.8	1324.3	1312.7	1301.2	1289.7	1245.2	1200.7	1156.2	1111.7	1067.1	1022.6
75°	1285.3	1274.8	1264.3	1253.7	1243.2	1201.1	1159.0	1117.0	1074.9	1032.8	990.7
77.5°	1214.9	1204.2	1193.5	1182.7	1172.0	1133.0	1094.1	1055.1	1016.2	977.2	938.3
80°	1125.7	1115.8	1105.8	1095.9	1085.9	1050.4	1014.8	979.3	943.8	908.2	872.7
82.5°	1026.4	1017.1	1007.8	998.6	989.3	957.7	926.0	894.4	862.8	831.1	799.5
85°	924.0	915.5	907.0	898.5	890.0	862.2	834.4	806.5	778.7	750.9	723.1
87.5°	825.8	817.9	810.0	802.1	794.2	770.0	745.8	721.6	697.4	673.1	648.9
90°	740.5	733.3	726.0	718.8	711.6	690.1	668.6	647.2	625.7	604.2	582.7
92.5°	674.2	667.7	661.3	654.8	648.4	629.3	610.1	591.0	571.9	552.7	533.6
95°	622.6	616.8	610.9	605.1	599.2	581.5	563.9	546.2	528.5	510.9	493.2
97.5°	580.2	574.6	569.0	563.5	557.9	541.3	524.7	508.1	491.5	474.9	458.3
100°	546.9	541.5	536.1	530.8	525.4	509.5	493.6	477.7	461.8	445.8	429.9
102.5°	520.6	515.4	510.3	505.1	499.9	484.3	468.7	453.0	437.4	421.8	406.2
105°	498.6	493.4	488.3	483.1	477.9	462.6	447.3	431.9	416.6	401.3	386.0
107.5°	479.8	474.7	469.7	464.6	459.5	444.3	429.0	413.8	398.6	383.3	368.1
110°	462.2	457.1	452.1	447.0	441.9	426.7	411.5	396.2	381.0	365.8	350.6



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	445.0	439.8	434.7	429.5	424.3	409.2	394.1	378.9	363.8	348.7	333.6
115°	427.9	422.6	417.3	412.1	406.8	391.7	376.5	361.4	346.3	331.1	316.0
117.5°	409.8	404.4	399.0	393.7	388.3	373.2	358.0	342.9	327.8	312.6	297.5
120°	389.1	383.6	378.1	372.7	367.2	352.4	337.5	322.7	307.9	293.0	278.2
122.5°	364.9	359.3	353.7	348.2	342.6	328.4	314.1	299.9	285.6	271.4	257.1
125°	339.1	333.8	328.6	323.3	318.0	304.1	290.3	276.4	262.6	248.7	234.9
127.5°	310.2	305.1	300.1	295.0	289.9	277.0	264.1	251.3	238.4	225.5	212.6
130°	278.4	273.8	269.3	264.7	260.1	248.4	236.7	224.9	213.2	201.5	189.8
132.5°	251.1	247.2	243.3	239.4	235.5	224.3	213.0	201.8	190.6	179.3	168.1
135°	223.1	219.6	216.1	212.6	209.1	199.0	189.0	178.9	168.9	158.8	148.8
137.5°	193.3	189.8	186.2	182.7	179.2	171.0	162.8	154.6	146.4	138.2	130.0
140°	162.8	159.9	157.0	154.0	151.1	144.5	137.8	131.2	124.6	117.9	111.3
142.5°	138.2	136.2	134.1	132.1	130.0	124.3	118.7	113.0	107.4	101.7	96.1
145°	118.2	116.6	114.9	113.3	111.6	106.7	101.8	96.9	92.0	87.2	82.3
147.5°	99.5	98.1	96.7	95.4	94.0	89.9	85.8	81.7	77.6	73.5	69.4
150°	82.9	81.7	80.5	79.4	78.2	74.7	71.2	67.7	64.2	60.6	57.1
152.5°	67.2	66.2	65.2	64.3	63.3	60.4	57.4	54.5	51.6	48.6	45.7
155°	52.8	52.1	51.5	50.8	50.1	47.7	45.2	42.8	40.3	37.9	35.4
157.5°	40.1	39.5	39.0	38.4	37.8	35.7	33.7	31.6	29.6	27.5	25.5
160°	28.0	27.6	27.2	26.8	26.4	24.8	23.3	21.7	20.1	18.6	17.0
162.5°	16.6	16.4	16.2	16.0	15.8	15.0	14.2	13.5	12.7	11.9	11.1
165°	8.8	8.8	8.8	8.8	8.8	8.5	8.2	7.9	7.6	7.3	7.0
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: P201342

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	861.8	863.1	864.5	864.9	865.3	865.7	866.1	866.4	866.8	867.2	867.6
5°	843.6	845.2	846.9	847.9	848.9	849.8	850.8	851.8	852.8	853.7	854.7
7.5°	826.1	828.2	830.2	831.5	832.8	834.0	835.3	836.6	837.9	839.1	840.4
10°	806.8	808.9	810.9	812.5	814.0	815.6	817.2	818.7	820.3	821.9	823.4
12.5°	790.8	793.0	795.1	796.3	797.4	798.6	799.8	800.9	802.1	803.3	804.4
15°	773.9	775.2	776.6	777.7	778.8	779.8	780.9	782.0	783.1	784.1	785.2
17.5°	758.9	759.0	759.1	759.7	760.3	760.8	761.4	762.0	762.6	763.1	763.7
20°	746.1	744.3	742.4	742.3	742.2	742.1	742.0	741.9	741.8	741.7	741.6
22.5°	738.2	734.6	731.0	729.5	728.1	726.6	725.1	723.7	722.2	720.7	719.3
25°	735.2	730.0	724.8	721.3	717.8	714.3	710.8	707.2	703.7	700.2	696.7
27.5°	735.2	729.1	723.1	716.8	710.6	704.3	698.1	691.8	685.6	679.3	673.1
30°	734.6	727.5	720.4	711.5	702.6	693.8	684.9	676.0	667.1	658.3	649.4
32.5°	735.0	726.4	717.8	706.5	695.2	683.8	672.5	661.2	649.9	638.5	627.2
35°	736.3	726.2	716.0	702.1	688.3	674.4	660.6	646.7	632.9	619.0	605.2
37.5°	740.1	728.5	716.9	700.6	684.3	668.0	651.7	635.4	619.1	602.8	586.5
40°	747.0	733.3	719.5	701.0	682.4	663.9	645.3	626.8	608.2	589.7	571.1
42.5°	755.9	739.5	723.1	702.5	681.9	661.3	640.7	620.1	599.5	578.9	558.3
45°	767.1	748.1	729.2	706.3	683.3	660.4	637.4	614.5	591.5	568.6	545.6
47.5°	782.6	760.8	738.9	713.3	687.7	662.2	636.6	611.0	585.4	559.9	534.3
50°	802.0	776.6	751.2	722.6	694.0	665.4	636.8	608.1	579.5	550.9	522.3
52.5°	825.4	796.2	767.0	735.2	703.4	671.5	639.7	607.9	576.1	544.2	512.4
55°	852.3	819.3	786.3	750.9	715.4	680.0	644.6	609.1	573.7	538.3	502.8
57.5°	882.7	845.9	809.1	769.9	730.6	691.4	652.2	612.9	573.7	534.5	495.2
60°	915.0	874.8	834.6	791.4	748.1	704.9	661.6	618.4	575.1	531.9	488.6
62.5°	945.3	902.3	859.2	812.1	764.9	717.8	670.6	623.5	576.3	529.2	482.0
65°	971.0	926.1	881.2	830.2	779.3	728.3	677.4	626.4	575.5	524.5	473.6
67.5°	987.9	942.0	896.1	841.9	787.7	733.6	679.4	625.2	571.0	516.9	462.7
70°	992.1	946.3	900.5	844.2	787.9	731.5	675.2	618.9	562.6	506.2	449.9
72.5°	978.1	933.6	889.1	832.3	775.5	718.7	661.9	605.0	548.2	491.4	434.6
75°	948.7	906.6	864.5	808.2	751.9	695.5	639.2	582.9	526.6	470.2	413.9
77.5°	899.3	860.4	821.4	767.2	713.1	658.9	604.7	550.6	496.4	442.2	388.1
80°	837.2	801.6	766.1	715.4	664.8	614.1	563.4	512.8	462.1	411.4	360.8
82.5°	767.9	736.2	704.6	658.3	612.1	565.8	519.5	473.3	427.0	380.7	334.5
85°	695.2	667.4	639.6	597.4	555.3	513.1	470.9	428.8	386.6	344.4	302.3
87.5°	624.7	600.5	576.3	538.8	501.3	463.9	426.4	388.9	351.4	314.0	276.5
90°	561.3	539.8	518.3	484.7	451.1	417.6	384.0	350.4	316.8	283.3	249.7
92.5°	514.5	495.3	476.2	445.4	414.7	383.9	353.2	322.4	291.7	260.9	230.2
95°	475.5	457.9	440.2	411.8	383.4	355.0	326.6	298.1	269.7	241.3	212.9
97.5°	441.7	425.1	408.5	382.1	355.8	329.4	303.1	276.7	250.4	224.0	197.7
100°	414.0	398.1	382.2	357.3	332.4	307.5	282.6	257.7	232.8	207.9	183.0
102.5°	390.5	374.9	359.3	335.6	311.9	288.1	264.4	240.7	217.0	193.2	169.5
105°	370.6	355.3	340.0	317.1	294.1	271.2	248.2	225.3	202.3	179.4	156.4
107.5°	352.9	337.6	322.4	300.1	277.9	255.6	233.4	211.1	188.9	166.6	144.4
110°	335.3	320.1	304.9	283.5	262.1	240.8	219.4	198.0	176.6	155.3	133.9



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	318.4	303.3	288.2	267.5	246.8	226.1	205.4	184.7	164.0	143.3	122.6
115°	300.9	285.7	270.6	250.8	231.0	211.1	191.3	171.5	151.7	131.8	112.0
117.5°	282.4	267.2	252.1	233.3	214.4	195.6	176.8	157.9	139.1	120.3	101.4
120°	263.4	248.5	233.7	216.1	198.6	181.0	163.4	145.9	128.3	110.7	93.2
122.5°	242.9	228.6	214.4	198.2	182.0	165.8	149.6	133.3	117.1	100.9	84.7
125°	221.0	207.2	193.3	178.7	164.0	149.4	134.7	120.1	105.4	90.8	76.1
127.5°	199.8	186.9	174.0	160.7	147.4	134.2	120.9	107.6	94.3	81.1	67.8
130°	178.0	166.3	154.6	142.8	131.0	119.2	107.4	95.5	83.7	71.9	60.1
132.5°	156.9	145.6	134.4	124.2	113.9	103.7	93.4	83.2	72.9	62.7	52.4
135°	138.7	128.7	118.6	109.5	100.4	91.4	82.3	73.2	64.1	55.1	46.0
137.5°	121.8	113.6	105.4	97.1	88.8	80.5	72.2	63.9	55.6	47.3	39.0
140°	104.7	98.0	91.4	84.0	76.6	69.1	61.7	54.3	46.9	39.4	32.0
142.5°	90.4	84.8	79.1	72.5	65.8	59.2	52.5	45.9	39.2	32.6	25.9
145°	77.4	72.5	67.6	61.7	55.9	50.0	44.2	38.3	32.5	26.6	20.8
147.5°	65.3	61.2	57.1	52.0	46.9	41.9	36.8	31.7	26.6	21.6	16.5
150°	53.6	50.1	46.6	42.5	38.4	34.3	30.2	26.1	22.0	17.9	13.8
152.5°	42.8	39.8	36.9	33.7	30.5	27.2	24.0	20.8	17.6	14.3	11.1
155°	33.0	30.5	28.1	25.7	23.2	20.8	18.3	15.9	13.4	11.0	8.5
157.5°	23.4	21.4	19.3	17.7	16.2	14.6	13.1	11.5	10.0	8.4	6.9
160°	15.4	13.9	12.3	11.3	10.3	9.4	8.4	7.4	6.4	5.5	4.5
162.5°	10.4	9.6	8.8	8.1	7.4	6.7	6.0	5.4	4.7	4.0	3.3
165°	6.7	6.4	6.1	5.6	5.1	4.7	4.2	3.7	3.2	2.8	2.3
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: P201342

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	868.0	870.6	873.3	875.9	878.5	881.2	883.8	886.4	889.1	891.7	891.7
5°	855.7	859.2	862.7	866.2	869.7	873.3	876.8	880.3	883.8	887.3	888.4
7.5°	841.7	845.9	850.1	854.3	858.5	862.6	866.8	871.0	875.2	879.4	881.7
10°	825.0	829.9	834.8	839.6	844.5	849.4	854.3	859.1	864.0	868.9	872.3
12.5°	805.6	811.1	816.5	822.0	827.5	832.9	838.4	843.9	849.3	854.8	859.4
15°	786.3	792.2	798.0	803.9	809.7	815.6	821.4	827.3	833.1	839.0	844.7
17.5°	764.3	770.6	776.8	783.1	789.3	795.6	801.8	808.1	814.3	820.6	827.4
20°	741.5	747.7	754.0	760.2	766.5	772.7	779.0	785.2	791.5	797.7	805.9
22.5°	717.8	723.9	730.1	736.2	742.4	748.5	754.7	760.8	767.0	773.1	782.6
25°	693.2	699.4	705.7	711.9	718.2	724.4	730.7	736.9	743.2	749.4	759.9
27.5°	666.8	672.6	678.3	684.1	689.9	695.6	701.4	707.2	712.9	718.7	730.9
30°	640.5	645.7	650.8	656.0	661.2	666.3	671.5	676.7	681.8	687.0	700.8
32.5°	615.9	620.2	624.5	628.8	633.1	637.3	641.6	645.9	650.2	654.5	669.7
35°	591.3	594.6	597.9	601.2	604.5	607.9	611.2	614.5	617.8	621.1	637.9
37.5°	570.2	572.1	573.9	575.8	577.6	579.5	581.3	583.2	585.0	586.9	605.6
40°	552.6	552.4	552.2	552.0	551.8	551.7	551.5	551.3	551.1	550.9	572.0
42.5°	537.7	535.3	532.8	530.4	527.9	525.5	523.0	520.6	518.1	515.7	539.0
45°	522.7	518.0	513.3	508.7	504.0	499.3	494.6	490.0	485.3	480.6	506.2
47.5°	508.7	501.6	494.4	487.3	480.2	473.0	465.9	458.8	451.6	444.5	472.4
50°	493.7	484.3	475.0	465.6	456.2	446.9	437.5	428.1	418.8	409.4	439.7
52.5°	480.6	468.8	457.0	445.2	433.4	421.5	409.7	397.9	386.1	374.3	407.1
55°	467.4	453.3	439.3	425.2	411.2	397.1	383.1	369.0	355.0	340.9	376.1
57.5°	456.0	439.6	423.2	406.8	390.4	374.0	357.6	341.2	324.8	308.4	346.1
60°	445.4	426.7	407.9	389.2	370.4	351.7	332.9	314.2	295.4	276.7	316.9
62.5°	434.9	413.9	392.9	371.9	350.9	330.0	309.0	288.0	267.0	246.0	288.7
65°	422.6	399.7	376.7	353.8	330.8	307.9	284.9	262.0	239.0	216.1	261.0
67.5°	408.5	383.7	358.9	334.1	309.3	284.6	259.8	235.0	210.2	185.4	232.5
70°	393.6	367.4	341.3	315.1	288.9	262.8	236.6	210.4	184.3	158.1	206.8
72.5°	377.8	350.5	323.1	295.8	268.5	241.1	213.8	186.5	159.1	131.8	181.5
75°	357.6	329.8	302.0	274.1	246.3	218.5	190.7	162.8	135.0	107.2	157.4
77.5°	333.9	306.2	278.4	250.7	223.0	195.2	167.5	139.8	112.0	84.3	134.2
80°	310.1	282.7	255.3	227.8	200.4	173.0	145.6	118.1	90.7	63.3	112.6
82.5°	288.2	261.0	233.7	206.5	179.2	152.0	124.7	97.5	70.2	43.0	91.0
85°	260.1	234.1	208.2	182.2	156.2	130.3	104.3	78.3	52.4	26.4	72.5
87.5°	239.0	213.6	188.2	162.8	137.4	112.1	86.7	61.3	35.9	10.5	54.3
90°	216.1	192.1	168.1	144.1	120.1	96.0	72.0	48.0	24.0	0.0	41.0
92.5°	199.4	177.2	155.1	132.9	110.8	88.6	66.5	44.3	22.2	0.0	38.0
95°	184.5	164.0	143.5	123.0	102.5	82.0	61.5	41.0	20.5	0.0	34.9
97.5°	171.3	152.3	133.2	114.2	95.2	76.1	57.1	38.1	19.0	0.0	32.0
100°	158.1	140.5	123.0	105.4	87.8	70.3	52.7	35.1	17.6	0.0	29.3
102.5°	145.8	129.7	113.6	97.5	81.4	65.3	49.2	33.1	17.0	0.9	27.5
105°	133.5	118.8	104.0	89.3	74.6	59.8	45.1	30.4	15.6	0.9	25.2
107.5°	122.1	108.5	95.0	81.4	67.8	54.3	40.7	27.1	13.6	0.0	22.0
110°	112.5	100.0	87.5	75.0	62.5	50.0	37.5	25.0	12.5	0.0	19.8





TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	101.9	90.7	79.5	68.2	57.0	45.8	34.6	23.3	12.1	0.9	18.9
115°	92.2	82.1	71.9	61.8	51.6	41.5	31.3	21.2	11.0	0.9	17.2
117.5°	82.6	73.5	64.4	55.4	46.3	37.2	28.1	19.1	10.0	0.9	15.6
120°	75.6	67.3	59.0	50.7	42.4	34.1	25.8	17.5	9.2	0.9	14.3
122.5°	68.5	61.0	53.5	46.0	38.5	30.9	23.4	15.9	8.4	0.9	12.8
125°	61.5	54.8	48.0	41.3	34.6	27.8	21.1	14.4	7.6	0.9	11.3
127.5°	54.5	48.5	42.6	36.6	30.7	24.7	18.8	12.8	6.9	0.9	9.7
130°	48.3	43.0	37.8	32.5	27.2	22.0	16.7	11.4	6.2	0.9	8.1
132.5°	42.2	37.6	33.0	28.4	23.8	19.3	14.7	10.1	5.5	0.9	6.7
135°	36.9	32.9	28.9	24.9	20.9	16.9	12.9	8.9	4.9	0.9	5.4
137.5°	30.7	27.4	24.1	20.8	17.5	14.1	10.8	7.5	4.2	0.9	4.1
140°	24.6	22.0	19.3	16.7	14.1	11.4	8.8	6.2	3.5	0.9	3.1
142.5°	19.3	17.3	15.2	13.2	11.1	9.1	7.0	5.0	2.9	0.9	2.4
145°	14.9	13.3	11.8	10.2	8.7	7.1	5.6	4.0	2.5	0.9	1.9
147.5°	11.4	10.2	9.1	7.9	6.7	5.6	4.4	3.2	2.1	0.9	1.7
150°	9.7	8.7	7.7	6.8	5.8	4.8	3.8	2.9	1.9	0.9	1.4
152.5°	7.9	7.2	6.5	5.9	5.2	4.5	3.8	3.2	2.5	1.8	2.1
155°	6.1	5.6	5.1	4.7	4.2	3.7	3.2	2.8	2.3	1.8	2.0
157.5°	5.3	4.9	4.5	4.1	3.7	3.4	3.0	2.6	2.2	1.8	1.9
160°	3.5	3.3	3.1	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.8
162.5°	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.3	1.1	0.9	0.9
165°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	892.6	893.5	894.3
5°	889.5	890.5	891.6	892.7	893.8	894.8	895.9	897.0	898.9	900.7	902.6
7.5°	884.1	886.4	888.8	891.1	893.5	895.8	898.2	900.5	903.3	906.2	909.0
10°	875.7	879.1	882.5	886.0	889.4	892.8	896.2	899.6	903.5	907.4	911.3
12.5°	864.0	868.6	873.2	877.7	882.3	886.9	891.5	896.1	901.2	906.3	911.3
15°	850.3	856.0	861.7	867.3	873.0	878.7	884.3	890.0	896.4	902.9	909.3
17.5°	834.3	841.1	847.9	854.8	861.6	868.4	875.3	882.1	890.0	897.9	905.8
20°	814.1	822.3	830.5	838.7	846.9	855.1	863.3	871.5	881.1	890.6	900.2
22.5°	792.0	801.5	811.0	820.4	829.9	839.4	848.8	858.3	870.2	882.1	894.0
25°	770.5	781.0	791.6	802.1	812.7	823.2	833.8	844.3	858.9	873.6	888.2
27.5°	743.1	755.3	767.5	779.7	791.9	804.1	816.3	828.5	846.1	863.6	881.2
30°	714.5	728.3	742.1	755.8	769.6	783.4	797.1	810.9	831.3	851.7	872.1
32.5°	685.0	700.2	715.4	730.7	745.9	761.1	776.4	791.6	815.2	838.8	862.5
35°	654.7	671.5	688.3	705.1	721.9	738.7	755.5	772.3	799.0	825.8	852.5
37.5°	624.4	643.1	661.9	680.6	699.4	718.1	736.9	755.6	785.3	814.9	844.6
40°	593.1	614.1	635.2	656.3	677.4	698.4	719.5	740.6	773.3	806.0	838.7
42.5°	562.4	585.7	609.0	632.4	655.7	679.0	702.4	725.7	761.8	797.9	834.1
45°	531.8	557.3	582.9	608.5	634.1	659.6	685.2	710.8	750.7	790.6	830.6
47.5°	500.3	528.3	556.2	584.1	612.0	640.0	667.9	695.8	739.8	783.8	827.9
50°	469.9	500.2	530.5	560.7	591.0	621.3	651.5	681.8	729.9	778.0	826.2
52.5°	439.9	472.7	505.5	538.3	571.1	603.9	636.7	669.5	722.3	775.1	827.9
55°	411.4	446.6	481.8	517.1	552.3	587.5	622.8	658.0	716.5	775.0	833.4
57.5°	383.8	421.4	459.1	496.8	534.5	572.1	609.8	647.5	711.5	775.6	839.6
60°	357.1	397.4	437.6	477.8	518.0	558.3	598.5	638.7	708.8	778.9	849.0
62.5°	331.3	374.0	416.6	459.3	501.9	544.6	587.2	629.9	706.2	782.6	858.9
65°	305.9	350.8	395.7	440.7	485.6	530.5	575.4	620.3	702.6	784.9	867.2
67.5°	279.7	326.8	374.0	421.1	468.3	515.4	562.6	609.7	697.2	784.6	872.1
70°	255.5	304.2	352.9	401.7	450.4	499.1	547.8	596.5	687.8	779.1	870.3
72.5°	231.2	280.9	330.6	380.2	429.9	479.6	529.3	579.0	672.1	765.2	858.4
75°	207.6	257.7	307.9	358.1	408.3	458.4	508.6	558.8	651.5	744.3	837.0
77.5°	184.1	234.0	283.9	333.7	383.6	433.5	483.4	533.3	623.2	713.1	803.0
80°	161.9	211.2	260.5	309.7	359.0	408.3	457.6	506.9	591.8	676.8	761.7
82.5°	139.1	187.1	235.1	283.2	331.2	379.2	427.3	475.3	554.6	633.8	713.1
85°	118.5	164.6	210.7	256.7	302.8	348.9	394.9	441.0	513.6	586.3	658.9
87.5°	98.2	142.0	185.8	229.7	273.5	317.3	361.2	405.0	470.9	536.8	602.7
90°	82.0	123.0	164.0	205.0	246.0	287.0	328.0	369.0	428.9	488.9	548.8
92.5°	76.0	113.9	151.9	189.9	227.9	265.8	303.8	341.8	396.3	450.7	505.2
95°	69.9	104.8	139.8	174.7	209.7	244.6	279.6	314.5	364.7	414.9	465.0
97.5°	64.0	96.1	128.1	160.1	192.1	224.2	256.2	288.2	334.8	381.3	427.9
100°	58.6	87.9	117.2	146.4	175.7	205.0	234.3	263.6	307.3	351.1	394.8
102.5°	54.2	80.8	107.5	134.1	160.8	187.4	214.1	240.7	282.2	323.7	365.2
105°	49.5	73.8	98.1	122.4	146.7	171.0	195.3	219.6	259.0	298.5	337.9
107.5°	43.9	65.9	87.9	109.8	131.8	153.8	175.7	197.7	235.6	273.5	311.3
110°	39.6	59.4	79.2	99.1	118.9	138.7	158.5	178.3	214.4	250.5	286.7



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	36.8	54.8	72.7	90.7	108.6	126.6	144.5	162.5	196.9	231.2	265.6
115°	33.5	49.8	66.1	82.4	98.7	115.0	131.3	147.6	180.4	213.2	246.0
117.5°	30.4	45.1	59.8	74.6	89.3	104.0	118.8	133.5	164.6	195.8	226.9
120°	27.6	41.0	54.4	67.7	81.1	94.5	107.8	121.2	150.2	179.2	208.2
122.5°	24.7	36.6	48.5	60.5	72.4	84.3	96.2	108.1	134.8	161.6	188.3
125°	21.8	32.2	42.7	53.1	63.6	74.0	84.5	94.9	119.7	144.5	169.3
127.5°	18.5	27.2	36.0	44.8	53.6	62.3	71.1	79.9	103.0	126.2	149.3
130°	15.3	22.6	29.8	37.0	44.2	51.5	58.7	65.9	86.8	107.7	128.6
132.5°	12.4	18.2	23.9	29.7	35.4	41.2	46.9	52.7	71.2	89.8	108.3
135°	9.9	14.4	18.9	23.3	27.8	32.3	36.8	41.3	57.3	73.3	89.3
137.5°	7.3	10.6	13.8	17.0	20.2	23.5	26.7	29.9	43.9	57.8	71.8
140°	5.4	7.6	9.9	12.1	14.4	16.6	18.9	21.1	33.2	45.3	57.4
142.5°	3.8	5.3	6.8	8.2	9.7	11.2	12.6	14.1	24.3	34.6	44.8
145°	2.9	3.8	4.8	5.8	6.8	7.7	8.7	9.7	18.0	26.3	34.6
147.5°	2.5	3.2	4.0	4.8	5.6	6.3	7.1	7.9	14.3	20.8	27.2
150°	1.9	2.4	2.9	3.3	3.8	4.3	4.8	5.3	10.2	15.1	19.9
152.5°	2.4	2.7	3.0	3.2	3.5	3.8	4.1	4.4	7.7	11.0	14.4
155°	2.2	2.4	2.6	2.7	2.9	3.1	3.3	3.5	5.5	7.4	9.4
157.5°	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.6	3.7	4.8	5.8
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	2.8	3.2
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°	1.6	1.5	1.4	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: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	895.2	896.1	897.0	897.8	898.7	899.6	900.1	900.6	901.1	901.6	902.0
5°	904.4	906.3	908.1	910.0	911.8	913.7	914.7	915.7	916.6	917.6	918.6
7.5°	911.8	914.7	917.5	920.3	923.2	926.0	927.8	929.5	931.3	933.0	934.8
10°	915.2	919.2	923.1	927.0	930.9	934.8	937.6	940.5	943.3	946.1	949.0
12.5°	916.4	921.5	926.6	931.6	936.7	941.8	945.6	949.4	953.2	957.0	960.9
15°	915.8	922.2	928.7	935.1	941.6	948.0	952.9	957.8	962.6	967.5	972.4
17.5°	913.7	921.6	929.5	937.4	945.3	953.2	959.9	966.7	973.4	980.2	986.9
20°	909.8	919.3	928.9	938.5	948.0	957.6	966.6	975.6	984.6	993.6	1002.5
22.5°	905.9	917.9	929.8	941.7	953.6	965.5	976.0	986.6	997.1	1007.7	1018.2
25°	902.9	917.5	932.2	946.8	961.5	976.1	988.1	1000.1	1012.1	1024.1	1036.1
27.5°	898.8	916.3	933.9	951.5	969.0	986.6	1000.0	1013.4	1026.7	1040.1	1053.5
30°	892.5	912.9	933.3	953.7	974.1	994.5	1009.7	1025.0	1040.2	1055.4	1070.7
32.5°	886.1	909.7	933.3	957.0	980.6	1004.2	1021.5	1038.8	1056.0	1073.3	1090.6
35°	879.3	906.0	932.8	959.5	986.3	1013.0	1032.7	1052.4	1072.1	1091.8	1111.6
37.5°	874.3	903.9	933.6	963.3	992.9	1022.6	1045.3	1068.1	1090.8	1113.6	1136.3
40°	871.4	904.1	936.8	969.5	1002.2	1034.9	1061.0	1087.0	1113.1	1139.2	1165.2
42.5°	870.2	906.3	942.4	978.6	1014.7	1050.8	1080.8	1110.7	1140.7	1170.7	1200.6
45°	870.5	910.4	950.3	990.3	1030.2	1070.1	1104.6	1139.0	1173.5	1207.9	1242.4
47.5°	871.9	915.9	959.9	1004.0	1048.0	1092.0	1131.7	1171.5	1211.2	1250.9	1290.7
50°	874.3	922.4	970.5	1018.7	1066.8	1114.9	1160.7	1206.5	1252.2	1298.0	1343.8
52.5°	880.7	933.6	986.4	1039.2	1092.0	1144.8	1196.8	1248.8	1300.9	1352.9	1404.9
55°	891.9	950.4	1008.9	1067.3	1125.8	1184.3	1242.2	1300.1	1358.0	1415.9	1473.7
57.5°	903.6	967.7	1031.7	1095.7	1159.8	1223.8	1287.6	1351.5	1415.3	1479.2	1543.0
60°	919.1	989.1	1059.2	1129.3	1199.4	1269.5	1338.5	1407.5	1476.6	1545.6	1614.6
62.5°	935.3	1011.6	1088.0	1164.3	1240.7	1317.0	1390.2	1463.4	1536.6	1609.8	1683.1
65°	949.5	1031.7	1114.0	1196.3	1278.6	1360.9	1436.9	1513.0	1589.0	1665.1	1741.1
67.5°	959.6	1047.0	1134.5	1222.0	1309.4	1396.9	1474.1	1551.3	1628.5	1705.7	1783.0
70°	961.6	1052.9	1144.2	1235.4	1326.7	1418.0	1494.8	1571.6	1648.5	1725.3	1802.1
72.5°	951.5	1044.6	1137.7	1230.9	1324.0	1417.1	1492.1	1567.0	1642.0	1717.0	1791.9
75°	929.7	1022.5	1115.2	1207.9	1300.7	1393.4	1465.0	1536.7	1608.3	1680.0	1751.6
77.5°	892.9	982.8	1072.7	1162.6	1252.5	1342.4	1410.8	1479.3	1547.7	1616.1	1684.6
80°	846.6	931.6	1016.5	1101.4	1186.4	1271.3	1334.7	1398.2	1461.6	1525.1	1588.5
82.5°	792.4	871.6	950.9	1030.2	1109.4	1188.7	1246.4	1304.1	1361.8	1419.5	1477.1
85°	731.5	804.2	876.8	949.4	1022.1	1094.7	1147.1	1199.5	1252.0	1304.4	1356.8
87.5°	668.6	734.4	800.3	866.2	932.1	998.0	1045.2	1092.3	1139.5	1186.6	1233.8
90°	608.7	668.7	728.6	788.5	848.5	908.4	950.9	993.3	1035.8	1078.3	1120.7
92.5°	559.7	614.1	668.6	723.1	777.5	832.0	870.9	909.7	948.6	987.4	1026.3
95°	515.2	565.4	615.6	665.7	715.9	766.1	802.8	839.5	876.2	912.9	949.6
97.5°	474.4	521.0	567.5	614.1	660.6	707.2	741.6	775.9	810.3	844.7	879.0
100°	438.5	482.3	526.0	569.7	613.5	657.2	690.3	723.4	756.5	789.6	822.6
102.5°	406.7	448.1	489.6	531.1	572.6	614.1	646.2	678.3	710.5	742.6	774.7
105°	377.4	416.8	456.3	495.7	535.2	574.6	605.7	636.9	668.0	699.1	730.3
107.5°	349.2	387.1	425.0	462.8	500.7	538.6	569.3	600.1	630.8	661.6	692.3
110°	322.8	358.9	395.0	431.2	467.3	503.4	533.7	563.9	594.2	624.5	654.7



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	300.0	334.3	368.7	403.1	437.4	471.8	501.2	530.6	559.9	589.3	618.7
115°	278.8	311.6	344.4	377.2	410.0	442.8	470.8	498.8	526.8	554.8	582.9
117.5°	258.1	289.2	320.4	351.5	382.7	413.8	440.6	467.5	494.3	521.2	548.0
120°	237.2	266.2	295.2	324.2	353.2	382.2	408.5	434.7	461.0	487.2	513.5
122.5°	215.1	241.8	268.6	295.3	322.1	348.8	374.5	400.1	425.8	451.5	477.1
125°	194.1	218.8	243.6	268.4	293.2	318.0	342.3	366.6	390.9	415.2	439.6
127.5°	172.5	195.6	218.8	241.9	265.1	288.2	310.5	332.7	355.0	377.2	399.5
130°	149.5	170.3	191.2	212.1	233.0	253.9	274.3	294.7	315.1	335.5	355.9
132.5°	126.9	145.4	164.0	182.5	201.1	219.6	238.8	258.1	277.3	296.5	315.8
135°	105.3	121.4	137.4	153.4	169.4	185.4	204.0	222.7	241.3	260.0	278.6
137.5°	85.7	99.7	113.6	127.6	141.5	155.5	172.7	189.9	207.0	224.2	241.4
140°	69.5	81.6	93.7	105.8	117.9	130.0	144.6	159.3	173.9	188.6	203.2
142.5°	55.1	65.3	75.6	85.8	96.1	106.3	118.8	131.3	143.8	156.3	168.8
145°	42.9	51.1	59.4	67.7	76.0	84.3	94.7	105.0	115.4	125.7	136.1
147.5°	33.7	40.1	46.6	53.0	59.5	65.9	74.4	82.9	91.4	99.9	108.3
150°	24.8	29.7	34.6	39.4	44.3	49.2	56.4	63.6	70.9	78.1	85.3
152.5°	17.7	21.0	24.3	27.7	31.0	34.3	40.1	45.8	51.6	57.3	63.1
155°	11.3	13.3	15.2	17.2	19.1	21.1	25.6	30.1	34.6	39.1	43.5
157.5°	6.9	8.0	9.1	10.1	11.2	12.3	15.5	18.7	22.0	25.2	28.4
160°	3.7	4.2	4.7	5.1	5.6	6.1	8.0	9.8	11.7	13.5	15.4
162.5°	1.7	1.8	2.0	2.2	2.4	2.6	3.5	4.4	5.2	6.1	7.0
165°	0.5	0.4	0.3	0.2	0.1	0.0	0.3	0.6	0.9	1.2	1.4
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: P201342

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	902.5	903.0	903.5	904.0	903.1	902.2	901.4	900.5	899.6	898.7	897.9
5°	919.6	920.5	921.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5
7.5°	936.5	938.3	940.0	941.8	942.0	942.2	942.4	942.6	942.8	943.0	943.2
10°	951.8	954.6	957.5	960.3	960.6	960.9	961.2	961.5	961.7	962.0	962.3
12.5°	964.7	968.5	972.3	976.1	977.1	978.1	979.0	980.0	981.0	982.0	982.9
15°	977.3	982.1	987.0	991.9	993.7	995.4	997.2	998.9	1000.7	1002.4	1004.2
17.5°	993.7	1000.4	1007.2	1013.9	1016.3	1018.8	1021.2	1023.6	1026.1	1028.5	1030.9
20°	1011.5	1020.5	1029.5	1038.5	1041.4	1044.3	1047.3	1050.2	1053.1	1056.0	1059.0
22.5°	1028.8	1039.3	1049.9	1060.4	1064.1	1067.8	1071.5	1075.2	1079.0	1082.7	1086.4
25°	1048.1	1060.1	1072.1	1084.1	1088.0	1091.9	1095.8	1099.7	1103.7	1107.6	1111.5
27.5°	1066.9	1080.2	1093.6	1107.0	1111.7	1116.4	1121.1	1125.8	1130.4	1135.1	1139.8
30°	1085.9	1101.1	1116.4	1131.6	1137.2	1142.7	1148.3	1153.9	1159.4	1165.0	1170.6
32.5°	1107.9	1125.1	1142.4	1159.7	1166.4	1173.2	1179.9	1186.6	1193.4	1200.1	1206.8
35°	1131.3	1151.0	1170.7	1190.4	1198.5	1206.6	1214.7	1222.8	1231.0	1239.1	1247.2
37.5°	1159.1	1181.8	1204.6	1227.3	1237.0	1246.6	1256.3	1266.0	1275.6	1285.3	1295.0
40°	1191.3	1217.4	1243.4	1269.5	1281.0	1292.5	1304.1	1315.6	1327.1	1338.6	1350.2
42.5°	1230.6	1260.6	1290.5	1320.5	1333.9	1347.2	1360.6	1374.0	1387.3	1400.7	1414.1
45°	1276.8	1311.3	1345.7	1380.2	1395.7	1411.2	1426.8	1442.3	1457.8	1473.3	1488.9
47.5°	1330.4	1370.1	1409.9	1449.6	1467.3	1484.9	1502.6	1520.3	1537.9	1555.6	1573.3
50°	1389.6	1435.3	1481.1	1526.9	1546.9	1566.9	1586.9	1606.9	1627.0	1647.0	1667.0
52.5°	1456.9	1509.0	1561.0	1613.0	1635.3	1657.5	1679.8	1702.0	1724.3	1746.5	1768.8
55°	1531.6	1589.5	1647.4	1705.3	1729.2	1753.1	1777.0	1800.9	1824.9	1848.8	1872.7
57.5°	1606.9	1670.7	1734.6	1798.4	1823.8	1849.2	1874.5	1899.9	1925.3	1950.7	1976.0
60°	1683.6	1752.7	1821.7	1890.7	1916.9	1943.0	1969.2	1995.3	2021.5	2047.6	2073.8
62.5°	1756.3	1829.5	1902.7	1975.9	2002.0	2028.0	2054.1	2080.1	2106.2	2132.2	2158.3
65°	1817.2	1893.2	1969.3	2045.3	2070.8	2096.3	2121.7	2147.2	2172.7	2198.2	2223.6
67.5°	1860.2	1937.4	2014.6	2091.8	2116.7	2141.6	2166.5	2191.4	2216.3	2241.2	2266.1
70°	1878.9	1955.8	2032.6	2109.4	2133.3	2157.2	2181.2	2205.1	2229.0	2252.9	2276.9
72.5°	1866.9	1941.9	2016.8	2091.8	2114.6	2137.5	2160.3	2183.2	2206.0	2228.9	2251.7
75°	1823.3	1894.9	1966.6	2038.2	2060.0	2081.8	2103.5	2125.3	2147.1	2168.9	2190.6
77.5°	1753.0	1821.4	1889.9	1958.3	1978.1	1997.9	2017.7	2037.5	2057.4	2077.2	2097.0
80°	1652.0	1715.4	1778.9	1842.3	1861.0	1879.8	1898.5	1917.3	1936.0	1954.8	1973.5
82.5°	1534.8	1592.5	1650.2	1707.9	1725.5	1743.1	1760.6	1778.2	1795.8	1813.4	1830.9
85°	1409.2	1461.7	1514.1	1566.5	1582.8	1599.1	1615.4	1631.7	1648.0	1664.3	1680.6
87.5°	1280.9	1328.1	1375.2	1422.4	1437.8	1453.2	1468.7	1484.1	1499.5	1514.9	1530.4
90°	1163.2	1205.7	1248.1	1290.6	1305.2	1319.9	1334.5	1349.2	1363.8	1378.5	1393.1
92.5°	1065.1	1104.0	1142.8	1181.7	1195.6	1209.4	1223.3	1237.1	1251.0	1264.8	1278.7
95°	986.3	1023.0	1059.7	1096.4	1108.9	1121.4	1133.9	1146.4	1158.9	1171.4	1183.9
97.5°	913.4	947.8	982.1	1016.5	1029.0	1041.5	1054.0	1066.5	1078.9	1091.4	1103.9
100°	855.7	888.8	921.9	955.0	967.1	979.2	991.3	1003.4	1015.5	1027.6	1039.7
102.5°	806.8	839.0	871.1	903.2	915.1	927.0	938.9	950.8	962.7	974.6	986.5
105°	761.4	792.5	823.7	854.8	867.1	879.4	891.7	904.0	916.3	928.6	940.9
107.5°	723.1	753.8	784.6	815.3	827.4	839.5	851.6	863.7	875.8	887.9	900.0
110°	685.0	715.3	745.5	775.8	787.8	799.8	811.8	823.8	835.8	847.8	859.8



TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	648.1	677.4	706.8	736.2	748.1	760.0	771.9	783.8	795.8	807.7	819.6
115°	610.9	638.9	666.9	694.9	706.6	718.3	730.1	741.8	753.5	765.2	777.0
117.5°	574.9	601.7	628.6	655.4	666.4	677.5	688.5	699.5	710.6	721.6	732.6
120°	539.7	566.0	592.2	618.5	628.9	639.4	649.8	660.3	670.7	681.2	691.6
122.5°	502.8	528.5	554.1	579.8	590.0	600.1	610.3	620.4	630.6	640.7	650.9
125°	463.9	488.2	512.5	536.8	546.9	556.9	567.0	577.0	587.1	597.1	607.2
127.5°	421.7	444.0	466.2	488.5	498.4	508.2	518.1	527.9	537.8	547.6	557.5
130°	376.3	396.7	417.1	437.5	446.8	456.1	465.3	474.6	483.9	493.2	502.4
132.5°	335.0	354.2	373.5	392.7	400.6	408.5	416.4	424.3	432.3	440.2	448.1
135°	297.3	315.9	334.6	353.2	359.9	366.7	373.4	380.1	386.9	393.6	400.3
137.5°	258.6	275.7	292.9	310.1	316.6	323.2	329.7	336.3	342.8	349.4	355.9
140°	217.9	232.5	247.2	261.8	268.7	275.7	282.6	289.5	296.5	303.4	310.3
142.5°	181.3	193.8	206.3	218.8	225.7	232.6	239.6	246.5	253.4	260.3	267.3
145°	146.4	156.8	167.1	177.5	184.5	191.5	198.6	205.6	212.6	219.6	226.7
147.5°	116.8	125.3	133.8	142.3	148.9	155.6	162.2	168.9	175.5	182.2	188.8
150°	92.5	99.8	107.0	114.2	120.2	126.1	132.1	138.0	144.0	149.9	155.9
152.5°	68.8	74.6	80.3	86.1	91.7	97.2	102.8	108.4	113.9	119.5	125.1
155°	48.0	52.5	57.0	61.5	66.5	71.5	76.4	81.4	86.4	91.4	96.3
157.5°	31.6	34.9	38.1	41.3	45.5	49.7	53.9	58.1	62.3	66.5	70.7
160°	17.2	19.1	20.9	22.8	26.2	29.6	33.1	36.5	39.9	43.3	46.8
162.5°	7.9	8.7	9.6	10.5	12.7	15.0	17.2	19.5	21.7	24.0	26.2
165°	1.7	2.0	2.3	2.6	4.0	5.3	6.7	8.1	9.4	10.8	12.2
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: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	878.6	878.6
2.5°	897.0	896.1
5°	922.5	922.5
7.5°	943.4	943.6
10°	962.6	962.9
12.5°	983.9	984.9
15°	1005.9	1007.7
17.5°	1033.4	1035.8
20°	1061.9	1064.8
22.5°	1090.1	1093.8
25°	1115.4	1119.3
27.5°	1144.5	1149.2
30°	1176.1	1181.7
32.5°	1213.6	1220.3
35°	1255.3	1263.4
37.5°	1304.6	1314.3
40°	1361.7	1373.2
42.5°	1427.4	1440.8
45°	1504.4	1519.9
47.5°	1590.9	1608.6
50°	1687.0	1707.0
52.5°	1791.0	1813.3
55°	1896.6	1920.5
57.5°	2001.4	2026.8
60°	2099.9	2126.1
62.5°	2184.3	2210.4
65°	2249.1	2274.6
67.5°	2291.0	2315.9
70°	2300.8	2324.7
72.5°	2274.6	2297.4
75°	2212.4	2234.2
77.5°	2116.8	2136.6
80°	1992.3	2011.0
82.5°	1848.5	1866.1
85°	1696.9	1713.2
87.5°	1545.8	1561.2
90°	1407.8	1422.4
92.5°	1292.5	1306.4
95°	1196.4	1208.9
97.5°	1116.4	1128.9
100°	1051.8	1063.9
102.5°	998.4	1010.3
105°	953.2	965.5
107.5°	912.1	924.2
110°	871.8	883.8





TEST NUMBER: P201342

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	831.5	843.4
115°	788.7	800.4
117.5°	743.7	754.7
120°	702.1	712.5
122.5°	661.0	671.2
125°	617.2	627.3
127.5°	567.3	577.2
130°	511.7	521.0
132.5°	456.0	463.9
135°	407.1	413.8
137.5°	362.5	369.0
140°	317.3	324.2
142.5°	274.2	281.1
145°	233.7	240.7
147.5°	195.5	202.1
150°	161.8	167.8
152.5°	130.6	136.2
155°	101.3	106.3
157.5°	74.9	79.1
160°	50.2	53.6
162.5°	28.5	30.7
165°	13.5	14.9
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)