

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: P201343

Luminaire Tested: **4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201343
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-L840-CD2-U
Description: 4 ft. Low Bay Linear, 7000 lm, Frst Asym lens, 4K
Light Source: (308) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
OT50W0800CC, OT30W0440CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7710.4 lumens
Efficiency: N/A
Efficacy: 136.7 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

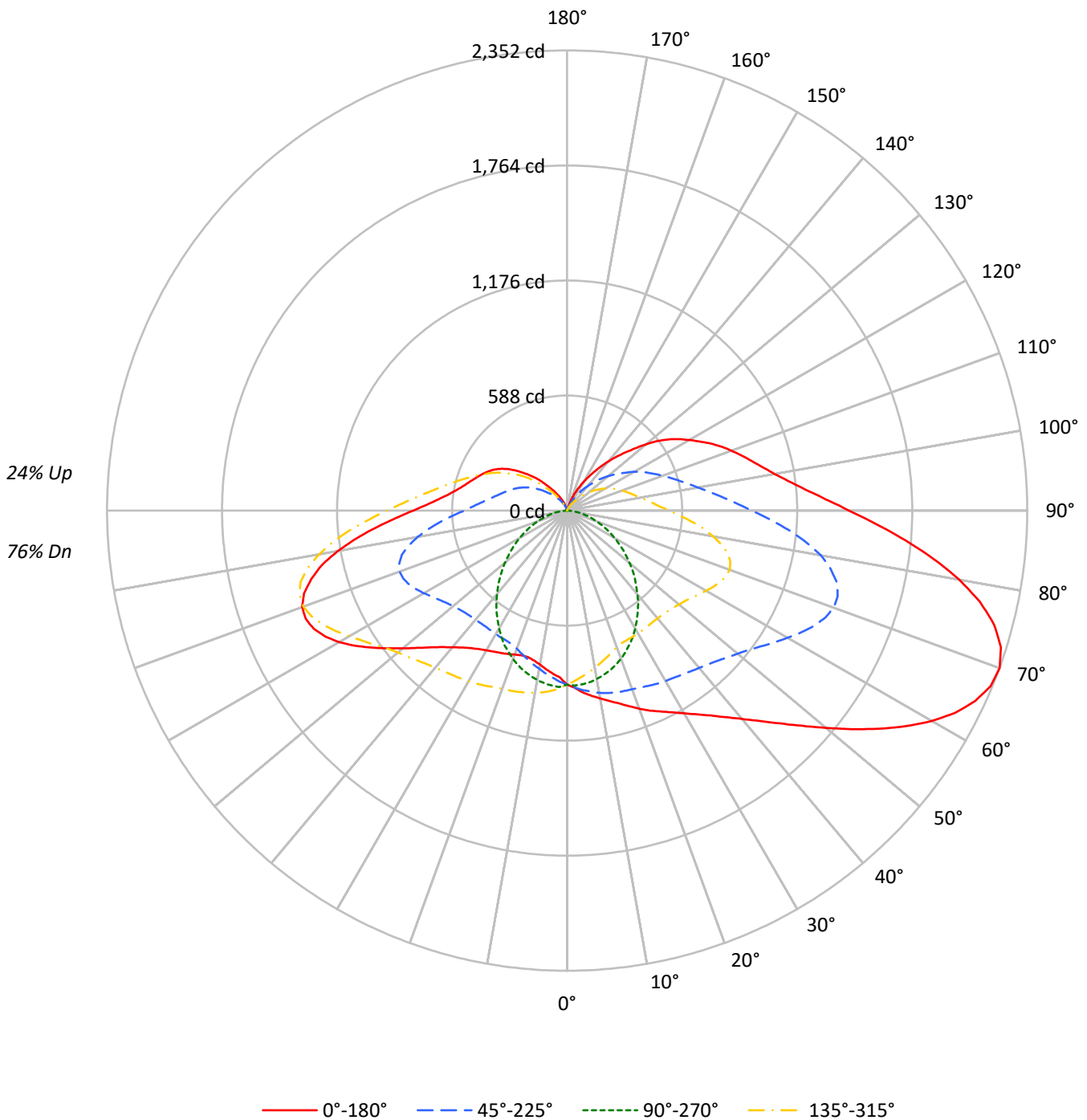
Input Watts (W): 56.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14327	14327	14327	14327
5°	13616	14358	12202	14460
10°	13072	14171	10723	14257
15°	12755	13911	9697	13970
20°	12715	13556	9242	13586
25°	12740	13102	9029	13165
30°	12943	12560	8921	12560
35°	13434	11931	9015	11931
40°	14293	11253	9373	11237
45°	15609	10612	10025	10534
50°	17431	9822	11052	9780
55°	19649	9067	12341	9022
60°	21962	8281	13731	8281
65°	23907	7471	14848	7502
70°	25064	6559	15355	6596
75°	24921	5610	14926	5657
80°	23420	4393	13690	4586
85°	21038	2783	11867	3096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	1.1
10°-20°	246.3	3.2
20°-30°	397.3	5.2
30°-40°	538.5	7.0
40°-50°	691.9	9.0
50°-60°	884.9	11.5
60°-70°	1080.9	14.0
70°-80°	1103.6	14.3
80°-90°	865.4	11.2
90°-100°	604.0	7.8
100°-110°	450.2	5.8
110°-120°	337.0	4.4
120°-130°	228.5	3.0
130°-140°	126.2	1.6
140°-150°	53.9	0.7
150°-160°	15.9	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	728.0	9.4
0°-40°	1266.5	16.4
0°-60°	2843.3	36.9
0°-90°	5893.2	76.4
90°-120°	1391.2	18.0
90°-150°	1799.8	23.3
90°-180°	1817.0	23.6
0°-180°	7710.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	889	889	889	889	889	
5°	934	892	837	898	934	90
15°	1020	846	775	849	1020	291
25°	1133	755	803	758	1133	527
35°	1278	629	858	629	1278	809
45°	1538	490	988	486	1538	1201
55°	1944	347	1221	345	1944	1746
65°	2302	218	1430	219	2302	2268
75°	2261	108	1354	108	2261	2364
85°	1734	24	978	27	1734	1478
90°	1439	0	786	0	1439	792
95°	1223	0	660	0	1223	971
105°	977	0	531	1	977	1038
115°	810	0	460	1	810	804
125°	635	0	370	1	635	567
135°	419	0	244	1	419	329
145°	244	0	128	1	244	156
155°	108	0	57	2	108	52
165°	15	0	9	2	15	6
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	906.9	906.5	906.1	905.7	905.3	904.9	904.5	904.1	903.7	903.3	903.6
5°	933.5	932.5	931.5	930.5	929.5	928.6	927.6	926.6	925.6	924.6	924.2
7.5°	954.9	953.7	952.5	951.3	950.1	949.0	947.8	946.6	945.4	944.2	943.0
10°	974.4	972.6	970.8	969.1	967.3	965.5	963.7	962.0	960.2	958.4	957.0
12.5°	996.7	994.4	992.1	989.9	987.6	985.3	983.0	980.8	978.5	976.2	973.8
15°	1019.8	1017.2	1014.7	1012.1	1009.5	1007.0	1004.4	1001.8	999.3	996.7	992.8
17.5°	1048.2	1044.6	1041.1	1037.5	1034.0	1030.4	1026.9	1023.3	1019.8	1016.2	1010.8
20°	1077.6	1073.2	1068.9	1064.5	1060.2	1055.8	1051.5	1047.1	1042.8	1038.4	1031.0
22.5°	1106.9	1101.9	1096.8	1091.8	1086.8	1081.7	1076.7	1071.7	1066.6	1061.6	1052.3
25°	1132.7	1127.6	1122.4	1117.3	1112.2	1107.0	1101.9	1096.8	1091.6	1086.5	1075.5
27.5°	1162.9	1157.2	1151.4	1145.7	1140.0	1134.2	1128.5	1122.8	1117.0	1111.3	1098.7
30°	1195.8	1189.2	1182.6	1175.9	1169.3	1162.7	1156.1	1149.4	1142.8	1136.2	1121.7
32.5°	1234.9	1227.1	1219.3	1211.5	1203.7	1195.9	1188.1	1180.3	1172.5	1164.7	1147.9
35°	1278.5	1269.4	1260.3	1251.2	1242.1	1233.1	1224.0	1214.9	1205.8	1196.7	1177.4
37.5°	1330.1	1319.6	1309.1	1298.7	1288.2	1277.7	1267.2	1256.8	1246.3	1235.8	1213.6
40°	1389.6	1377.5	1365.3	1353.2	1341.0	1328.9	1316.7	1304.6	1292.4	1280.3	1254.7
42.5°	1458.1	1444.3	1430.4	1416.6	1402.8	1388.9	1375.1	1361.3	1347.4	1333.6	1303.9
45°	1538.1	1522.1	1506.1	1490.1	1474.1	1458.1	1442.1	1426.1	1410.1	1394.1	1359.8
47.5°	1627.9	1609.7	1591.5	1573.4	1555.2	1537.0	1518.8	1500.7	1482.5	1464.3	1425.0
50°	1727.5	1707.2	1687.0	1666.7	1646.5	1626.2	1606.0	1585.7	1565.5	1545.2	1499.9
52.5°	1835.1	1812.6	1790.0	1767.5	1745.0	1722.4	1699.9	1677.4	1654.8	1632.3	1580.9
55°	1943.5	1919.6	1895.7	1871.8	1847.9	1824.0	1800.1	1776.2	1752.3	1728.4	1670.8
57.5°	2051.1	2026.0	2000.9	1975.8	1950.7	1925.7	1900.6	1875.5	1850.4	1825.3	1761.8
60°	2151.6	2125.9	2100.2	2074.5	2048.8	2023.2	1997.5	1971.8	1946.1	1920.4	1851.5
62.5°	2236.9	2211.5	2186.1	2160.7	2135.3	2110.0	2084.6	2059.2	2033.8	2008.4	1935.1
65°	2301.8	2277.8	2253.8	2229.8	2205.8	2181.8	2157.8	2133.8	2109.8	2085.8	2008.8
67.5°	2343.6	2320.2	2296.8	2273.4	2250.0	2226.5	2203.1	2179.7	2156.3	2132.9	2054.7
70°	2352.5	2330.4	2308.2	2286.1	2264.0	2241.8	2219.7	2197.6	2175.4	2153.3	2075.2
72.5°	2324.9	2304.0	2283.0	2262.1	2241.2	2220.2	2199.3	2178.4	2157.4	2136.5	2060.2
75°	2260.9	2241.2	2221.6	2201.9	2182.3	2162.6	2143.0	2123.3	2103.7	2084.0	2011.1
77.5°	2162.2	2143.8	2125.5	2107.1	2088.7	2070.4	2052.0	2033.6	2015.3	1996.9	1928.3
80°	2035.1	2017.9	2000.7	1983.5	1966.3	1949.2	1932.0	1914.8	1897.6	1880.4	1817.8
82.5°	1888.4	1872.1	1855.8	1839.5	1823.2	1806.9	1790.6	1774.3	1758.0	1741.7	1684.9
85°	1733.7	1718.3	1702.9	1687.5	1672.1	1656.6	1641.2	1625.8	1610.4	1595.0	1543.9
87.5°	1579.9	1565.2	1550.5	1535.7	1521.0	1506.3	1491.6	1476.8	1462.1	1447.4	1401.8
90°	1439.4	1425.6	1411.7	1397.9	1384.1	1370.2	1356.4	1342.6	1328.7	1314.9	1273.5
92.5°	1322.1	1309.1	1296.0	1283.0	1269.9	1256.9	1243.8	1230.8	1217.7	1204.7	1166.9
95°	1223.4	1210.9	1198.5	1186.0	1173.6	1161.1	1148.7	1136.2	1123.8	1111.3	1076.1
97.5°	1142.5	1130.3	1118.2	1106.0	1093.9	1081.7	1069.6	1057.4	1045.3	1033.1	999.8
100°	1076.7	1064.7	1052.8	1040.8	1028.9	1016.9	1005.0	993.0	981.1	969.1	936.8
102.5°	1022.4	1010.6	998.9	987.1	975.4	963.6	951.9	940.1	928.4	916.6	885.0
105°	977.1	965.6	954.2	942.7	931.3	919.8	908.4	896.9	885.5	874.0	842.6
107.5°	935.3	923.8	912.4	900.9	889.5	878.0	866.6	855.1	843.7	832.2	801.4
110°	894.4	882.9	871.5	860.0	848.6	837.1	825.7	814.2	802.8	791.3	761.2



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CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	853.5	842.0	830.6	819.1	807.7	796.2	784.8	773.3	761.9	750.4	721.3
115°	810.0	798.6	787.3	775.9	764.5	753.2	741.8	730.4	719.1	707.7	679.8
117.5°	763.7	752.9	742.2	731.4	720.6	709.9	699.1	688.3	677.6	666.8	640.2
120°	721.0	710.7	700.5	690.2	679.9	669.7	659.4	649.1	638.9	628.6	602.8
122.5°	679.3	669.5	659.7	649.9	640.1	630.4	620.6	610.8	601.0	591.2	565.7
125°	634.8	625.2	615.6	606.1	596.5	586.9	577.3	567.8	558.2	548.6	524.2
127.5°	584.1	574.9	565.7	556.5	547.3	538.2	529.0	519.8	510.6	501.4	479.2
130°	527.2	518.6	510.0	501.4	492.8	484.3	475.7	467.1	458.5	449.9	430.3
132.5°	469.4	462.1	454.8	447.5	440.2	432.8	425.5	418.2	410.9	403.6	386.1
135°	418.8	412.7	406.5	400.4	394.3	388.1	382.0	375.9	369.7	363.6	347.5
137.5°	373.4	367.8	362.1	356.5	350.9	345.2	339.6	334.0	328.3	322.7	307.9
140°	328.1	323.1	318.0	313.0	307.9	302.9	297.8	292.8	287.7	282.7	269.5
142.5°	284.5	280.2	275.8	271.5	267.1	262.8	258.4	254.1	249.7	245.4	233.6
145°	243.6	239.6	235.7	231.7	227.8	223.8	219.9	215.9	212.0	208.0	197.9
147.5°	204.5	201.3	198.2	195.0	191.8	188.7	185.5	182.3	179.2	176.0	167.2
150°	169.8	167.0	164.3	161.5	158.7	156.0	153.2	150.4	147.7	144.9	137.3
152.5°	137.8	135.4	133.1	130.7	128.3	126.0	123.6	121.2	118.9	116.5	110.0
155°	107.6	105.6	103.6	101.7	99.7	97.7	95.7	93.8	91.8	89.8	84.2
157.5°	80.0	78.4	76.8	75.3	73.7	72.1	70.5	69.0	67.4	65.8	61.2
160°	54.2	52.9	51.6	50.4	49.1	47.8	46.5	45.3	44.0	42.7	39.4
162.5°	31.1	30.2	29.3	28.4	27.5	26.7	25.8	24.9	24.0	23.1	21.2
165°	15.1	14.6	14.1	13.6	13.1	12.7	12.2	11.7	11.2	10.7	9.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	903.9	904.2	904.5	904.8	905.1	905.4	905.7	906.0	904.2	902.4	900.7
5°	923.8	923.4	923.0	922.7	922.3	921.9	921.5	921.1	918.3	915.6	912.8
7.5°	941.8	940.6	939.4	938.3	937.1	935.9	934.7	933.5	929.7	926.0	922.2
10°	955.6	954.3	952.9	951.5	950.1	948.8	947.4	946.0	940.9	935.7	930.6
12.5°	971.5	969.1	966.7	964.4	962.0	959.6	957.3	954.9	948.5	942.1	935.6
15°	989.0	985.1	981.3	977.4	973.6	969.7	965.9	962.0	954.3	946.6	938.9
17.5°	1005.3	999.9	994.5	989.0	983.6	978.2	972.7	967.3	958.1	948.9	939.7
20°	1023.6	1016.2	1008.8	1001.4	994.0	986.6	979.2	971.8	961.0	950.3	939.5
22.5°	1043.0	1033.7	1024.4	1015.2	1005.9	996.6	987.3	978.0	965.2	952.3	939.5
25°	1064.6	1053.6	1042.6	1031.7	1020.7	1009.7	998.8	987.8	972.4	957.0	941.6
27.5°	1086.0	1073.4	1060.7	1048.1	1035.4	1022.8	1010.1	997.5	979.2	961.0	942.7
30°	1107.2	1092.6	1078.1	1063.6	1049.1	1034.5	1020.0	1005.5	984.3	963.0	941.8
32.5°	1131.1	1114.3	1097.5	1080.7	1063.9	1047.1	1030.3	1013.5	989.6	965.7	941.8
35°	1158.2	1138.9	1119.6	1100.4	1081.1	1061.8	1042.6	1023.3	996.2	969.2	942.1
37.5°	1191.4	1169.1	1146.9	1124.7	1102.5	1080.2	1058.0	1035.8	1005.6	975.3	945.1
40°	1229.1	1203.5	1177.9	1152.4	1126.8	1101.2	1075.6	1050.0	1016.7	983.4	950.1
42.5°	1274.1	1244.4	1214.7	1184.9	1155.2	1125.5	1095.7	1066.0	1029.4	992.7	956.1
45°	1325.5	1291.3	1257.0	1222.7	1188.4	1154.2	1119.9	1085.6	1045.2	1004.8	964.4
47.5°	1385.7	1346.4	1307.1	1267.7	1228.4	1189.1	1149.8	1110.5	1065.7	1021.0	976.2
50°	1454.5	1409.2	1363.8	1318.5	1273.1	1227.8	1182.4	1137.1	1087.9	1038.7	989.5
52.5°	1529.6	1478.2	1426.8	1375.5	1324.1	1272.7	1221.4	1170.0	1115.7	1061.3	1007.0
55°	1613.2	1555.6	1498.0	1440.4	1382.8	1325.2	1267.6	1210.0	1150.0	1090.1	1030.1
57.5°	1698.3	1634.7	1571.2	1507.7	1444.2	1380.6	1317.1	1253.6	1187.7	1121.8	1055.9
60°	1782.7	1713.8	1645.0	1576.1	1507.3	1438.4	1369.6	1300.7	1228.7	1156.7	1084.7
62.5°	1861.8	1788.5	1715.2	1641.9	1568.6	1495.3	1422.0	1348.7	1270.6	1192.4	1114.3
65°	1931.9	1854.9	1778.0	1701.0	1624.1	1547.1	1470.2	1393.2	1309.0	1224.9	1140.7
67.5°	1976.4	1898.2	1819.9	1741.7	1663.4	1585.2	1506.9	1428.7	1339.4	1250.1	1160.8
70°	1997.0	1918.9	1840.8	1762.6	1684.5	1606.4	1528.2	1450.1	1356.9	1263.8	1170.6
72.5°	1984.0	1907.7	1831.4	1755.2	1678.9	1602.6	1526.4	1450.1	1355.2	1260.2	1165.3
75°	1938.2	1865.3	1792.4	1719.5	1646.6	1573.7	1500.8	1427.9	1333.2	1238.4	1143.7
77.5°	1859.8	1791.2	1722.6	1654.1	1585.5	1516.9	1448.4	1379.8	1287.6	1195.5	1103.3
80°	1755.1	1692.5	1629.9	1567.2	1504.6	1442.0	1379.3	1316.7	1228.5	1140.3	1052.1
82.5°	1628.1	1571.3	1514.5	1457.7	1400.9	1344.1	1287.3	1230.5	1148.3	1066.1	983.9
85°	1492.9	1441.8	1390.7	1339.7	1288.6	1237.5	1186.5	1135.4	1059.9	984.4	909.0
87.5°	1356.1	1310.5	1264.9	1219.2	1173.6	1128.0	1082.3	1036.7	968.2	899.8	831.3
90°	1232.1	1190.7	1149.3	1108.0	1066.6	1025.2	983.8	942.4	880.5	818.5	756.6
92.5°	1129.0	1091.2	1053.4	1015.5	977.7	939.9	902.0	864.2	807.9	751.6	695.3
95°	1041.0	1005.8	970.6	935.5	900.3	865.1	830.0	794.8	743.1	691.5	639.8
97.5°	966.5	933.2	899.9	866.7	833.4	800.1	766.8	733.5	685.7	637.9	590.1
100°	904.5	872.2	839.9	807.6	775.3	743.0	710.7	678.4	633.9	589.5	545.0
102.5°	853.4	821.8	790.2	758.5	726.9	695.3	663.7	632.1	590.0	547.9	505.9
105°	811.2	779.7	748.3	716.9	685.5	654.0	622.6	591.2	551.1	511.0	470.9
107.5°	770.6	739.7	708.9	678.1	647.3	616.4	585.6	554.8	516.3	477.7	439.2
110°	731.0	700.9	670.8	640.6	610.5	580.4	550.2	520.1	483.2	446.2	409.3



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	692.1	663.0	633.8	604.7	575.5	546.4	517.2	488.1	452.7	417.4	382.0
115°	652.0	624.1	596.3	568.4	540.6	512.7	484.9	457.0	423.3	389.6	355.9
117.5°	613.6	587.1	560.5	533.9	507.3	480.8	454.2	427.6	395.6	363.6	331.6
120°	577.0	551.2	525.4	499.7	473.9	448.1	422.3	396.5	366.5	336.4	306.4
122.5°	540.2	514.8	489.3	463.8	438.3	412.9	387.4	361.9	334.2	306.6	278.9
125°	499.8	475.4	451.0	426.6	402.2	377.8	353.4	329.0	303.6	278.2	252.8
127.5°	457.0	434.7	412.5	390.3	368.1	345.8	323.6	301.4	277.7	254.0	230.3
130°	410.8	391.2	371.6	352.1	332.5	312.9	293.4	273.8	251.9	230.0	208.0
132.5°	368.6	351.2	333.7	316.2	298.7	281.3	263.8	246.3	226.1	206.0	185.8
135°	331.4	315.3	299.2	283.1	267.0	250.9	234.8	218.7	200.4	182.1	163.9
137.5°	293.1	278.3	263.5	248.6	233.8	219.0	204.2	189.4	173.2	157.0	140.8
140°	256.2	243.0	229.8	216.5	203.3	190.1	176.8	163.6	149.0	134.4	119.7
142.5°	221.9	210.1	198.4	186.6	174.9	163.1	151.4	139.6	126.7	113.7	100.8
145°	187.9	177.8	167.7	157.7	147.6	137.5	127.5	117.4	106.0	94.7	83.3
147.5°	158.4	149.6	140.8	132.1	123.3	114.5	105.7	96.9	87.2	77.5	67.9
150°	129.7	122.1	114.5	106.9	99.3	91.7	84.1	76.5	68.7	60.9	53.1
152.5°	103.5	96.9	90.4	83.9	77.4	70.8	64.3	57.8	51.8	45.8	39.7
155°	78.5	72.9	67.3	61.6	56.0	50.4	44.7	39.1	34.9	30.6	26.4
157.5°	56.5	51.9	47.2	42.6	37.9	33.3	28.6	24.0	21.3	18.7	16.0
160°	36.2	32.9	29.6	26.4	23.1	19.8	16.6	13.3	11.8	10.3	8.9
162.5°	19.3	17.5	15.6	13.7	11.8	10.0	8.1	6.2	5.5	4.8	4.1
165°	8.7	7.7	6.7	5.8	4.8	3.8	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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	898.9	897.1	895.3	893.6	891.8	890.0	890.6	891.2	891.8	892.4	892.9
5°	910.0	907.3	904.5	901.7	899.0	896.2	895.7	895.2	894.7	894.2	893.7
7.5°	918.5	914.7	911.0	907.2	903.5	899.7	898.1	896.5	895.0	893.4	891.8
10°	925.4	920.3	915.1	910.0	904.8	899.7	896.8	894.0	891.1	888.3	885.4
12.5°	929.2	922.8	916.4	909.9	903.5	897.1	893.0	889.0	884.9	880.9	876.8
15°	931.2	923.4	915.7	908.0	900.3	892.6	887.4	882.1	876.9	871.7	866.4
17.5°	930.5	921.4	912.2	903.0	893.8	884.6	878.2	871.8	865.3	858.9	852.5
20°	928.7	918.0	907.2	896.4	885.7	874.9	867.2	859.5	851.8	844.1	836.3
22.5°	926.6	913.8	900.9	888.1	875.2	862.4	853.3	844.2	835.1	826.0	817.0
25°	926.2	910.7	895.3	879.9	864.5	849.1	838.6	828.1	817.7	807.2	796.7
27.5°	924.4	906.2	887.9	869.6	851.4	833.1	821.2	809.4	797.5	785.7	773.8
30°	920.6	899.3	878.1	856.9	835.6	814.4	801.2	787.9	774.7	761.5	748.2
32.5°	917.9	894.0	870.1	846.2	822.3	798.4	783.4	768.4	753.4	738.4	723.3
35°	915.0	888.0	860.9	833.8	806.8	779.7	762.9	746.1	729.3	712.5	695.8
37.5°	914.9	884.6	854.4	824.2	793.9	763.7	745.1	726.6	708.0	689.4	670.9
40°	916.8	883.6	850.3	817.0	783.7	750.4	729.1	707.7	686.4	665.0	643.7
42.5°	919.4	882.8	846.1	809.5	772.8	736.2	712.4	688.6	664.8	641.0	617.1
45°	924.0	883.5	843.1	802.7	762.3	721.9	696.1	670.3	644.6	618.8	593.0
47.5°	931.5	886.7	842.0	797.2	752.5	707.7	679.3	651.0	622.6	594.3	565.9
50°	940.3	891.2	842.0	792.8	743.6	694.4	663.5	632.6	601.6	570.7	539.8
52.5°	952.7	898.3	844.0	789.7	735.3	681.0	647.7	614.4	581.1	547.8	514.6
55°	970.2	910.2	850.3	790.3	730.4	670.4	634.4	598.5	562.5	526.5	490.6
57.5°	990.0	924.2	858.3	792.4	726.5	660.6	622.0	583.4	544.7	506.1	467.5
60°	1012.7	940.6	868.6	796.6	724.6	652.6	611.2	569.8	528.4	487.0	445.7
62.5°	1036.2	958.0	879.9	801.8	723.6	645.5	601.4	557.4	513.3	469.2	425.2
65°	1056.5	972.4	888.2	804.0	719.9	635.7	589.3	542.8	496.4	450.0	403.5
67.5°	1071.5	982.2	892.9	803.6	714.3	625.0	576.3	527.6	478.9	430.2	381.5
70°	1077.5	984.3	891.2	798.0	704.9	611.7	561.4	511.1	460.8	410.5	360.3
72.5°	1070.4	975.4	880.5	785.6	690.6	595.7	544.2	492.8	441.3	389.8	338.4
75°	1048.9	954.2	859.4	764.7	669.9	575.2	523.2	471.3	419.3	367.4	315.4
77.5°	1011.1	919.0	826.8	734.6	642.5	550.3	498.4	446.6	394.7	342.9	291.0
80°	963.9	875.6	787.4	699.2	611.0	522.8	471.5	420.2	369.0	317.7	266.4
82.5°	901.7	819.6	737.4	655.2	573.0	490.8	440.9	391.0	341.1	291.2	241.4
85°	833.5	758.0	682.5	607.1	531.6	456.1	408.1	360.1	312.1	264.1	216.0
87.5°	762.8	694.4	625.9	557.4	489.0	420.5	374.8	329.0	283.3	237.6	191.8
90°	694.7	632.7	570.8	508.9	446.9	385.0	342.2	299.4	256.7	213.9	171.1
92.5°	639.0	582.6	526.3	470.0	413.7	357.4	317.7	278.0	238.3	198.6	158.8
95°	588.1	536.5	484.8	433.1	381.5	329.8	293.2	256.5	219.9	183.2	146.6
97.5°	542.3	494.4	446.6	398.8	351.0	303.2	269.5	235.8	202.1	168.4	134.8
100°	500.6	456.1	411.7	367.2	322.8	278.3	247.4	216.5	185.5	154.6	123.7
102.5°	463.8	421.7	379.6	337.6	295.5	253.4	225.2	197.1	168.9	140.8	112.6
105°	430.8	390.7	350.6	310.5	270.4	230.3	204.7	179.1	153.5	127.9	102.4
107.5°	400.7	362.1	323.6	285.1	246.5	208.0	184.9	161.8	138.7	115.6	92.4
110°	372.3	335.4	298.4	261.5	224.5	187.6	166.8	145.9	125.1	104.2	83.4



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	346.6	311.3	275.9	240.5	205.2	169.8	150.9	132.1	113.2	94.3	75.5
115°	322.2	288.6	254.9	221.2	187.5	153.8	136.7	119.6	102.5	85.4	68.4
117.5°	299.6	267.6	235.6	203.6	171.6	139.6	124.1	108.6	93.1	77.6	62.0
120°	276.4	246.3	216.3	186.3	156.2	126.2	112.2	98.2	84.1	70.1	56.1
122.5°	251.2	223.6	195.9	168.2	140.6	112.9	100.4	87.8	75.3	62.7	50.2
125°	227.4	202.1	176.7	151.3	125.9	100.5	89.3	78.2	67.0	55.8	44.7
127.5°	206.6	182.8	159.1	135.4	111.7	88.0	78.2	68.4	58.7	48.9	39.1
130°	186.1	164.2	142.3	120.3	98.4	76.5	68.0	59.5	51.0	42.5	34.0
132.5°	165.7	145.5	125.4	105.2	85.1	64.9	57.7	50.5	43.3	36.1	28.8
135°	145.6	127.3	109.0	90.8	72.5	54.2	48.2	42.2	36.1	30.1	24.1
137.5°	124.6	108.4	92.2	76.0	59.8	43.6	38.8	33.9	29.1	24.2	19.4
140°	105.1	90.5	75.9	61.2	46.6	32.0	28.4	24.9	21.3	17.8	14.2
142.5°	87.8	74.9	61.9	49.0	36.0	23.1	20.5	18.0	15.4	12.8	10.3
145°	71.9	60.6	49.2	37.8	26.5	15.1	13.4	11.7	10.1	8.4	6.7
147.5°	58.2	48.5	38.8	29.2	19.5	9.8	8.7	7.6	6.5	5.4	4.4
150°	45.3	37.4	29.6	21.8	14.0	6.2	5.5	4.8	4.1	3.4	2.8
152.5°	33.7	27.7	21.7	15.6	9.6	3.6	3.2	2.8	2.4	2.0	1.6
155°	22.1	17.9	13.6	9.4	5.1	0.9	0.8	0.7	0.6	0.5	0.4
157.5°	13.3	10.7	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	7.4	5.9	4.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.4	2.8	2.1	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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	893.5	894.1	894.7	895.3	893.1	890.9	888.8	886.6	884.4	882.2	880.1
5°	893.2	892.7	892.2	891.7	888.6	885.6	882.5	879.5	876.4	873.4	870.3
7.5°	890.2	888.7	887.1	885.5	881.5	877.4	873.4	869.3	865.3	861.2	857.2
10°	882.6	879.7	876.9	874.0	869.5	864.9	860.4	855.8	851.3	846.7	842.2
12.5°	872.8	868.7	864.7	860.6	855.6	850.5	845.5	840.5	835.4	830.4	825.4
15°	861.2	856.0	850.7	845.5	839.9	834.2	828.6	823.0	817.3	811.7	806.1
17.5°	846.1	839.6	833.2	826.8	820.9	815.0	809.0	803.1	797.2	791.3	785.3
20°	828.6	820.9	813.2	805.5	799.4	793.3	787.1	781.0	774.9	768.8	762.6
22.5°	807.9	798.8	789.7	780.6	774.6	768.6	762.5	756.5	750.5	744.5	738.4
25°	786.2	775.8	765.3	754.8	748.8	742.8	736.7	730.7	724.7	718.7	712.6
27.5°	762.0	750.1	738.3	726.4	720.7	714.9	709.2	703.5	697.7	692.0	686.3
30°	735.0	721.8	708.5	695.3	690.1	684.8	679.6	674.3	669.1	663.8	658.6
32.5°	708.3	693.3	678.3	663.3	658.7	654.0	649.4	644.7	640.1	635.4	630.8
35°	679.0	662.2	645.4	628.6	625.0	621.5	617.9	614.4	610.8	607.3	603.7
37.5°	652.3	633.7	615.2	596.6	594.4	592.2	590.1	587.9	585.7	583.5	581.4
40°	622.3	601.0	579.6	558.3	558.2	558.1	558.0	557.9	557.9	557.8	557.7
42.5°	593.3	569.5	545.7	521.9	524.0	526.1	528.1	530.2	532.3	534.4	536.4
45°	567.2	541.5	515.7	489.9	493.7	497.4	501.2	504.9	508.7	512.4	516.2
47.5°	537.6	509.2	480.9	452.5	458.6	464.8	470.9	477.0	483.2	489.3	495.4
50°	508.9	477.9	447.0	416.1	424.6	433.1	441.6	450.1	458.5	467.0	475.5
52.5°	481.3	448.0	414.7	381.4	392.1	402.7	413.4	424.1	434.7	445.4	456.1
55°	454.6	418.6	382.7	346.7	359.6	372.6	385.5	398.5	411.4	424.4	437.3
57.5°	428.9	390.2	351.6	313.0	328.2	343.4	358.6	373.8	389.1	404.3	419.5
60°	404.3	362.9	321.5	280.1	297.6	315.1	332.5	350.0	367.5	385.0	402.4
62.5°	381.1	337.0	293.0	248.9	268.4	287.8	307.3	326.8	346.2	365.7	385.2
65°	357.1	310.7	264.2	217.8	239.2	260.7	282.1	303.6	325.0	346.5	367.9
67.5°	332.8	284.1	235.4	186.7	210.0	233.3	256.6	279.9	303.3	326.6	349.9
70°	310.0	259.7	209.4	159.1	183.7	208.3	232.9	257.5	282.1	306.7	331.3
72.5°	286.9	235.4	184.0	132.5	158.1	183.7	209.2	234.8	260.4	286.0	311.5
75°	263.5	211.5	159.6	107.6	133.8	160.0	186.1	212.3	238.5	264.7	290.8
77.5°	239.2	187.3	135.5	83.6	110.1	136.5	163.0	189.5	215.9	242.4	268.9
80°	215.1	163.9	112.6	61.3	87.7	114.1	140.4	166.8	193.2	219.6	245.9
82.5°	191.5	141.6	91.7	41.8	67.7	93.6	119.4	145.3	171.2	197.1	222.9
85°	168.0	120.0	72.0	24.0	49.3	74.6	99.9	125.2	150.4	175.7	201.0
87.5°	146.1	100.4	54.6	8.9	33.0	57.1	81.2	105.3	129.4	153.5	177.6
90°	128.3	85.6	42.8	0.0	22.6	45.2	67.9	90.5	113.1	135.7	158.4
92.5°	119.1	79.4	39.7	0.0	20.9	41.9	62.8	83.8	104.7	125.7	146.6
95°	109.9	73.3	36.6	0.0	19.4	38.7	58.1	77.5	96.8	116.2	135.6
97.5°	101.1	67.4	33.7	0.0	18.0	36.0	53.9	71.9	89.9	107.9	125.8
100°	92.8	61.8	30.9	0.0	16.5	33.0	49.5	66.0	82.5	99.0	115.5
102.5°	84.5	56.3	28.2	0.0	15.2	30.4	45.6	60.8	76.1	91.3	106.5
105°	76.8	51.2	25.6	0.0	13.9	27.9	41.8	55.7	69.7	83.6	97.5
107.5°	69.3	46.2	23.1	0.0	12.7	25.5	38.2	51.0	63.7	76.5	89.2
110°	62.5	41.7	20.8	0.0	11.6	23.1	34.7	46.2	57.8	69.3	80.9



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	56.6	37.7	18.9	0.0	10.5	20.9	31.4	41.9	52.3	62.8	73.3
115°	51.3	34.2	17.1	0.0	9.3	18.6	27.9	37.2	46.4	55.7	65.0
117.5°	46.5	31.0	15.5	0.0	8.3	16.6	24.9	33.2	41.5	49.8	58.1
120°	42.1	28.0	14.0	0.0	7.4	14.8	22.2	29.6	37.1	44.5	51.9
122.5°	37.6	25.1	12.5	0.0	6.6	13.2	19.9	26.5	33.1	39.7	46.4
125°	33.5	22.3	11.2	0.0	5.8	11.7	17.5	23.3	29.2	35.0	40.8
127.5°	29.3	19.6	9.8	0.0	4.9	9.9	14.8	19.8	24.7	29.7	34.6
130°	25.5	17.0	8.5	0.0	4.1	8.3	12.4	16.6	20.7	24.9	29.0
132.5°	21.6	14.4	7.2	0.0	3.4	6.7	10.1	13.4	16.8	20.1	23.5
135°	18.1	12.0	6.0	0.0	2.7	5.3	8.0	10.7	13.3	16.0	18.7
137.5°	14.5	9.7	4.8	0.0	2.0	4.0	5.9	7.9	9.9	11.9	13.8
140°	10.7	7.1	3.6	0.0	1.4	2.8	4.1	5.5	6.9	8.3	9.6
142.5°	7.7	5.1	2.6	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.5
145°	5.0	3.4	1.7	0.0	0.5	1.0	1.5	2.0	2.4	2.9	3.4
147.5°	3.3	2.2	1.1	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1
150°	2.1	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: P201343

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	877.9	875.7	875.2	874.7	874.2	873.7	873.3	872.8	872.3	871.8	871.3
5°	867.3	864.2	862.9	861.6	860.3	859.0	857.8	856.5	855.2	853.9	852.6
7.5°	853.1	849.1	847.5	845.9	844.3	842.7	841.2	839.6	838.0	836.4	834.8
10°	837.6	833.1	831.1	829.1	827.2	825.2	823.2	821.2	819.3	817.3	815.3
12.5°	820.3	815.3	813.2	811.1	809.1	807.0	804.9	802.8	800.8	798.7	796.6
15°	800.4	794.8	792.9	791.0	789.2	787.3	785.4	783.5	781.7	779.8	777.9
17.5°	779.4	773.5	771.9	770.3	768.8	767.2	765.6	764.0	762.5	760.9	759.3
20°	756.5	750.4	749.6	748.8	748.0	747.2	746.5	745.7	744.9	744.1	743.3
22.5°	732.4	726.4	727.1	727.8	728.5	729.2	729.8	730.5	731.2	731.9	732.6
25°	706.6	700.6	703.7	706.7	709.8	712.9	715.9	719.0	722.1	725.1	728.2
27.5°	680.5	674.8	680.5	686.3	692.0	697.7	703.5	709.2	714.9	720.7	726.4
30°	653.3	648.1	656.6	665.1	673.6	682.1	690.6	699.1	707.6	716.1	724.6
32.5°	626.1	621.5	632.7	643.8	655.0	666.1	677.3	688.4	699.6	710.7	721.9
35°	600.2	596.6	610.3	624.1	637.8	651.5	665.3	679.0	692.7	706.5	720.2
37.5°	579.2	577.0	592.7	608.4	624.1	639.8	655.6	671.3	687.0	702.7	718.4
40°	557.6	557.5	575.5	593.5	611.4	629.4	647.4	665.4	683.3	701.3	719.3
42.5°	538.5	540.6	560.7	580.9	601.0	621.2	641.3	661.5	681.6	701.8	721.9
45°	519.9	523.7	546.3	568.9	591.6	614.2	636.8	659.4	682.1	704.7	727.3
47.5°	501.6	507.7	533.0	558.3	583.6	608.9	634.1	659.4	684.7	710.0	735.3
50°	484.0	492.5	520.7	548.8	577.0	605.1	633.3	661.4	689.6	717.7	745.9
52.5°	466.7	477.4	508.7	540.0	571.4	602.7	634.0	665.3	696.7	728.0	759.3
55°	450.3	463.2	498.0	532.8	567.5	602.3	637.1	671.9	706.6	741.4	776.2
57.5°	434.7	449.9	488.5	527.1	565.8	604.4	643.0	681.6	720.3	758.9	797.5
60°	419.9	437.4	479.9	522.4	564.8	607.3	649.8	692.3	734.7	777.2	819.7
62.5°	404.6	424.1	470.6	517.1	563.7	610.2	656.7	703.2	749.8	796.3	842.8
65°	389.4	410.8	461.1	511.4	561.6	611.9	662.2	712.5	762.7	813.0	863.3
67.5°	373.2	396.5	450.1	503.8	557.4	611.1	664.7	718.4	772.0	825.7	879.3
70°	355.9	380.5	436.4	492.3	548.2	604.1	660.1	716.0	771.9	827.8	883.7
72.5°	337.1	362.7	419.6	476.5	533.4	590.3	647.3	704.2	761.1	818.0	874.9
75°	317.0	343.2	399.7	456.2	512.7	569.2	625.7	682.2	738.7	795.2	851.7
77.5°	295.3	321.8	375.9	430.1	484.2	538.4	592.5	646.7	700.8	755.0	809.1
80°	272.3	298.7	349.6	400.5	451.3	502.2	553.1	604.0	654.8	705.7	756.6
82.5°	248.8	274.7	322.3	369.9	417.6	465.2	512.8	560.4	608.1	655.7	703.3
85°	226.3	251.6	294.4	337.2	379.9	422.7	465.5	508.3	551.0	593.8	636.6
87.5°	201.7	225.8	264.4	303.1	341.7	380.3	419.0	457.6	496.2	534.9	573.5
90°	181.0	203.6	238.9	274.1	309.4	344.7	379.9	415.2	450.5	485.7	521.0
92.5°	167.6	188.5	220.1	251.7	283.3	314.9	346.6	378.2	409.8	441.4	473.0
95°	154.9	174.3	203.7	233.2	262.6	292.0	321.5	350.9	380.3	409.8	439.2
97.5°	143.8	161.8	189.1	216.3	243.6	270.9	298.1	325.4	352.7	379.9	407.2
100°	132.0	148.5	174.2	199.9	225.5	251.2	276.9	302.6	328.2	353.9	379.6
102.5°	121.7	136.9	161.3	185.7	210.1	234.5	258.9	283.3	307.7	332.1	356.5
105°	111.5	125.4	148.8	172.2	195.6	219.0	242.5	265.9	289.3	312.7	336.1
107.5°	102.0	114.7	137.1	159.5	182.0	204.4	226.8	249.2	271.7	294.1	316.5
110°	92.4	104.0	125.6	147.3	168.9	190.5	212.2	233.8	255.4	277.1	298.7



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	83.7	94.2	114.9	135.7	156.4	177.2	197.9	218.7	239.4	260.2	280.9
115°	74.3	83.6	103.6	123.5	143.5	163.4	183.4	203.3	223.3	243.2	263.2
117.5°	66.4	74.7	93.6	112.4	131.3	150.2	169.0	187.9	206.8	225.6	244.5
120°	59.3	66.7	84.4	102.1	119.7	137.4	155.1	172.8	190.4	208.1	225.8
122.5°	53.0	59.6	75.8	92.0	108.2	124.4	140.6	156.8	173.0	189.2	205.4
125°	46.7	52.5	67.3	82.1	96.9	111.7	126.6	141.4	156.2	171.0	185.8
127.5°	39.6	44.5	57.9	71.4	84.8	98.2	111.7	125.1	138.5	152.0	165.4
130°	33.2	37.3	48.9	60.4	72.0	83.6	95.1	106.7	118.3	129.8	141.4
132.5°	26.8	30.2	40.1	50.0	59.8	69.7	79.6	89.5	99.3	109.2	119.1
135°	21.3	24.0	32.6	41.2	49.8	58.4	67.0	75.6	84.2	92.8	101.4
137.5°	15.8	17.8	25.3	32.8	40.3	47.8	55.4	62.9	70.4	77.9	85.4
140°	11.0	12.4	18.9	25.4	32.0	38.5	45.0	51.5	58.1	64.6	71.1
142.5°	6.3	7.1	12.7	18.4	24.0	29.6	35.3	40.9	46.5	52.2	57.8
145°	3.9	4.4	9.0	13.7	18.3	23.0	27.6	32.3	36.9	41.6	46.2
147.5°	2.4	2.7	6.4	10.0	13.7	17.3	21.0	24.6	28.3	31.9	35.6
150°	0.8	0.9	3.8	6.6	9.5	12.4	15.2	18.1	21.0	23.8	26.7
152.5°	0.0	0.0	2.1	4.2	6.2	8.3	10.4	12.5	14.5	16.6	18.7
155°	0.0	0.0	1.3	2.6	3.9	5.2	6.4	7.7	9.0	10.3	11.6
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: P201343

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	870.2	869.1	868.0	866.9	865.9	864.8	863.7	862.6	861.5	860.6	859.7
5°	851.3	850.0	848.8	847.5	846.2	844.9	843.7	842.4	841.1	840.6	840.1
7.5°	833.4	832.0	830.7	829.3	827.9	826.5	825.2	823.8	822.4	821.9	821.4
10°	814.1	812.9	811.7	810.5	809.4	808.2	807.0	805.8	804.6	804.0	803.4
12.5°	795.6	794.6	793.6	792.6	791.7	790.7	789.7	788.7	787.7	787.3	786.9
15°	777.4	776.9	776.4	775.9	775.5	775.0	774.5	774.0	773.5	773.7	773.9
17.5°	760.1	760.9	761.7	762.5	763.2	764.0	764.8	765.6	766.4	767.4	768.4
20°	746.2	749.0	751.9	754.8	757.6	760.5	763.4	766.2	769.1	770.7	772.3
22.5°	737.3	742.1	746.8	751.6	756.3	761.1	765.8	770.6	775.3	777.3	779.3
25°	734.2	740.2	746.3	752.3	758.3	764.3	770.4	776.4	782.4	784.7	786.9
27.5°	733.3	740.2	747.1	754.0	761.0	767.9	774.8	781.7	788.6	791.3	793.9
30°	732.5	740.4	748.3	756.2	764.1	772.0	779.9	787.8	795.7	798.9	802.0
32.5°	731.1	740.3	749.5	758.7	767.8	777.0	786.2	795.4	804.6	808.5	812.3
35°	730.9	741.5	752.2	762.9	773.5	784.2	794.9	805.5	816.2	820.8	825.5
37.5°	730.9	743.5	756.0	768.6	781.1	793.7	806.2	818.8	831.3	836.9	842.6
40°	733.9	748.5	763.1	777.7	792.4	807.0	821.6	836.2	850.8	857.5	864.2
42.5°	738.9	755.9	772.9	789.9	806.9	823.9	840.9	857.9	874.9	882.8	890.7
45°	747.1	766.8	786.6	806.3	826.1	845.8	865.6	885.3	905.1	914.3	923.5
47.5°	758.0	780.7	803.5	826.2	848.9	871.6	894.4	917.1	939.8	950.8	961.7
50°	772.5	799.1	825.6	852.2	878.8	905.4	931.9	958.5	985.1	997.3	1009.6
52.5°	789.8	820.3	850.9	881.4	911.9	942.4	973.0	1003.5	1034.0	1047.5	1061.1
55°	810.3	844.4	878.4	912.5	946.6	980.7	1014.7	1048.8	1082.9	1098.2	1113.5
57.5°	835.3	873.2	911.0	948.8	986.7	1024.5	1062.3	1100.2	1138.0	1154.4	1170.8
60°	861.5	903.3	945.1	986.9	1028.6	1070.4	1112.2	1154.0	1195.8	1212.4	1229.0
62.5°	887.6	932.3	977.1	1021.8	1066.6	1111.3	1156.1	1200.8	1245.6	1262.1	1278.6
65°	909.6	956.0	1002.3	1048.6	1095.0	1141.3	1187.6	1234.0	1280.3	1296.9	1313.5
67.5°	926.6	973.9	1021.3	1068.6	1115.9	1163.2	1210.6	1257.9	1305.2	1320.9	1336.6
70°	931.0	978.3	1025.7	1073.0	1120.3	1167.6	1215.0	1262.3	1309.6	1324.2	1338.8
72.5°	920.9	967.0	1013.0	1059.0	1105.1	1151.1	1197.1	1243.2	1289.2	1302.6	1316.1
75°	895.4	939.0	982.7	1026.4	1070.0	1113.7	1157.4	1201.0	1244.7	1256.9	1269.0
77.5°	850.0	890.9	931.8	972.7	1013.5	1054.4	1095.3	1136.2	1177.1	1189.0	1200.8
80°	793.7	830.9	868.0	905.2	942.3	979.5	1016.6	1053.8	1090.9	1101.9	1112.8
82.5°	735.7	768.1	800.5	832.9	865.3	897.7	930.1	962.5	994.9	1005.0	1015.1
85°	665.6	694.7	723.7	752.8	781.8	810.9	839.9	869.0	898.0	906.9	915.8
87.5°	598.9	624.3	649.6	675.0	700.4	725.8	751.1	776.5	801.9	810.1	818.3
90°	542.7	564.5	586.2	607.9	629.7	651.4	673.1	694.9	716.6	724.3	732.0
92.5°	493.1	513.1	533.2	553.2	573.3	593.3	613.4	633.4	653.5	660.3	667.1
95°	457.3	475.4	493.4	511.5	529.6	547.7	565.7	583.8	601.9	608.3	614.7
97.5°	424.3	441.4	458.5	475.6	492.6	509.7	526.8	543.9	561.0	567.0	573.0
100°	396.2	412.8	429.4	446.0	462.6	479.2	495.8	512.4	529.0	534.7	540.5
102.5°	372.6	388.7	404.8	420.9	437.0	453.1	469.2	485.3	501.4	507.1	512.9
105°	352.1	368.1	384.1	400.1	416.1	432.1	448.1	464.1	480.1	485.7	491.4
107.5°	332.6	348.7	364.8	380.9	397.0	413.1	429.2	445.3	461.4	466.9	472.5
110°	314.7	330.7	346.7	362.7	378.8	394.8	410.8	426.8	442.8	448.4	454.0



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	296.9	312.9	328.9	344.9	361.0	377.0	393.0	409.0	425.0	430.7	436.4
115°	279.2	295.2	311.2	327.2	343.2	359.2	375.2	391.2	407.2	413.0	418.9
117.5°	260.4	276.3	292.2	308.1	324.0	339.9	355.8	371.7	387.6	393.6	399.7
120°	241.3	256.8	272.3	287.8	303.4	318.9	334.4	349.9	365.4	371.6	377.8
122.5°	220.4	235.4	250.4	265.4	280.5	295.5	310.5	325.5	340.5	346.8	353.1
125°	199.9	214.1	228.2	242.3	256.5	270.6	284.7	298.9	313.0	319.3	325.6
127.5°	178.7	192.1	205.4	218.7	232.1	245.4	258.7	272.1	285.4	291.4	297.4
130°	154.3	167.3	180.2	193.1	206.1	219.0	231.9	244.9	257.8	263.0	268.3
132.5°	131.5	143.8	156.2	168.5	180.9	193.2	205.6	217.9	230.3	235.1	240.0
135°	112.6	123.7	134.9	146.0	157.2	168.3	179.5	190.6	201.8	206.4	211.1
137.5°	94.8	104.2	113.5	122.9	132.3	141.7	151.0	160.4	169.8	174.6	179.5
140°	78.7	86.3	93.9	101.5	109.2	116.8	124.4	132.0	139.6	144.0	148.5
142.5°	64.2	70.6	77.1	83.5	89.9	96.3	102.8	109.2	115.6	119.5	123.3
145°	51.6	57.1	62.5	67.9	73.4	78.8	84.2	89.7	95.1	98.8	102.4
147.5°	40.1	44.7	49.2	53.8	58.3	62.9	67.4	72.0	76.5	80.0	83.4
150°	30.4	34.0	37.7	41.3	45.0	48.6	52.3	55.9	59.6	63.0	66.3
152.5°	21.6	24.4	27.3	30.2	33.0	35.9	38.8	41.6	44.5	47.7	50.8
155°	13.9	16.1	18.4	20.7	22.9	25.2	27.5	29.7	32.0	34.8	37.5
157.5°	6.3	8.2	10.0	11.9	13.8	15.7	17.5	19.4	21.3	23.8	26.3
160°	2.2	3.5	4.7	6.0	7.3	8.6	9.8	11.1	12.4	14.4	16.4
162.5°	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	5.2	6.8
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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	858.8	857.9	857.1	856.2	855.3	854.4	853.5	854.5	855.5	856.5	857.5
5°	839.6	839.1	838.6	838.1	837.6	837.1	836.6	837.2	837.8	838.4	839.0
7.5°	820.9	820.4	820.0	819.5	819.0	818.5	818.0	818.4	818.8	819.2	819.6
10°	802.8	802.2	801.7	801.1	800.5	799.9	799.3	799.6	799.9	800.2	800.5
12.5°	786.5	786.1	785.8	785.4	785.0	784.6	784.2	784.3	784.4	784.5	784.6
15°	774.1	774.3	774.5	774.7	774.9	775.1	775.3	775.1	774.9	774.7	774.5
17.5°	769.4	770.4	771.3	772.3	773.3	774.3	775.3	774.4	773.5	772.6	771.7
20°	773.8	775.4	777.0	778.6	780.1	781.7	783.3	781.6	779.9	778.3	776.6
22.5°	781.2	783.2	785.2	787.2	789.1	791.1	793.1	790.8	788.5	786.3	784.0
25°	789.2	791.5	793.7	796.0	798.3	800.5	802.8	800.3	797.9	795.4	792.9
27.5°	796.6	799.3	801.9	804.6	807.3	809.9	812.6	809.7	806.9	804.0	801.1
30°	805.2	808.4	811.5	814.7	817.9	821.0	824.2	820.8	817.5	814.1	810.7
32.5°	816.2	820.0	823.9	827.7	831.6	835.4	839.3	835.4	831.6	827.7	823.9
35°	830.1	834.8	839.4	844.1	848.7	853.4	858.0	853.5	848.9	844.4	839.8
37.5°	848.2	853.8	859.5	865.1	870.7	876.4	882.0	876.4	870.7	865.1	859.5
40°	871.0	877.7	884.4	891.1	897.9	904.6	911.3	904.9	898.5	892.0	885.6
42.5°	898.6	906.5	914.4	922.3	930.2	938.1	946.0	938.8	931.6	924.4	917.2
45°	932.7	941.9	951.0	960.2	969.4	978.6	987.8	979.2	970.6	962.0	953.4
47.5°	972.7	983.6	994.6	1005.5	1016.5	1027.4	1038.4	1028.2	1018.1	1007.9	997.7
50°	1021.8	1034.1	1046.3	1058.6	1070.8	1083.1	1095.3	1083.7	1072.2	1060.6	1049.1
52.5°	1074.6	1088.1	1101.7	1115.2	1128.7	1142.3	1155.8	1143.2	1130.5	1117.9	1105.2
55°	1128.8	1144.1	1159.5	1174.8	1190.1	1205.4	1220.7	1206.9	1193.0	1179.2	1165.4
57.5°	1187.2	1203.6	1220.0	1236.4	1252.8	1269.2	1285.6	1271.0	1256.4	1241.7	1227.1
60°	1245.6	1262.2	1278.8	1295.4	1312.0	1328.6	1345.2	1330.3	1315.4	1300.4	1285.5
62.5°	1295.1	1311.6	1328.1	1344.6	1361.1	1377.6	1394.1	1379.4	1364.7	1349.9	1335.2
65°	1330.1	1346.7	1363.2	1379.8	1396.4	1413.0	1429.6	1415.3	1401.0	1386.6	1372.3
67.5°	1352.3	1368.0	1383.7	1399.4	1415.1	1430.8	1446.5	1433.0	1419.4	1405.9	1392.4
70°	1353.5	1368.1	1382.7	1397.3	1412.0	1426.6	1441.2	1428.7	1416.1	1403.6	1391.0
72.5°	1329.5	1342.9	1356.4	1369.8	1383.2	1396.7	1410.1	1398.4	1386.8	1375.1	1363.5
75°	1281.2	1293.3	1305.5	1317.6	1329.8	1341.9	1354.1	1343.4	1332.7	1322.1	1311.4
77.5°	1212.7	1224.5	1236.4	1248.2	1260.1	1271.9	1283.8	1272.9	1262.1	1251.2	1240.3
80°	1123.8	1134.8	1145.7	1156.7	1167.7	1178.6	1189.6	1179.5	1169.4	1159.4	1149.3
82.5°	1025.1	1035.2	1045.3	1055.4	1065.4	1075.5	1085.6	1076.2	1066.8	1057.4	1048.0
85°	924.7	933.6	942.4	951.3	960.2	969.1	978.0	969.4	960.8	952.2	943.6
87.5°	826.5	834.7	842.9	851.1	859.3	867.5	875.7	867.7	859.7	851.7	843.7
90°	739.7	747.4	755.1	762.8	770.5	778.2	785.9	778.6	771.3	764.0	756.7
92.5°	673.9	680.7	687.6	694.4	701.2	708.0	714.8	708.3	701.8	695.2	688.7
95°	621.2	627.6	634.0	640.4	646.9	653.3	659.7	653.8	647.9	641.9	636.0
97.5°	579.1	585.1	591.1	597.1	603.2	609.2	615.2	609.6	604.0	598.3	592.7
100°	546.2	551.9	557.7	563.4	569.1	574.9	580.6	575.2	569.7	564.3	558.9
102.5°	518.6	524.3	530.1	535.8	541.5	547.3	553.0	547.8	542.5	537.3	532.1
105°	497.0	502.6	508.3	513.9	519.5	525.2	530.8	525.6	520.3	515.1	509.9
107.5°	478.0	483.5	489.1	494.6	500.1	505.7	511.2	506.1	500.9	495.8	490.7
110°	459.7	465.3	470.9	476.5	482.2	487.8	493.4	488.3	483.1	478.0	472.9



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	442.2	447.9	453.6	459.3	465.1	470.8	476.5	471.3	466.0	460.8	455.6
115°	424.7	430.5	436.4	442.2	448.0	453.9	459.7	454.4	449.0	443.7	438.3
117.5°	405.7	411.7	417.8	423.8	429.8	435.9	441.9	436.5	431.0	425.6	420.2
120°	384.1	390.3	396.5	402.7	409.0	415.2	421.4	415.9	410.3	404.8	399.3
122.5°	359.5	365.8	372.1	378.4	384.8	391.1	397.4	391.8	386.1	380.5	374.9
125°	332.0	338.3	344.6	350.9	357.3	363.6	369.9	364.6	359.2	353.9	348.5
127.5°	303.5	309.5	315.5	321.5	327.6	333.6	339.6	334.5	329.3	324.2	319.1
130°	273.5	278.8	284.0	289.3	294.5	299.8	305.0	300.4	295.7	291.1	286.4
132.5°	244.8	249.6	254.5	259.3	264.1	269.0	273.8	269.9	265.9	262.0	258.0
135°	215.7	220.4	225.0	229.7	234.3	239.0	243.6	240.0	236.5	232.9	229.4
137.5°	184.3	189.2	194.0	198.9	203.7	208.6	213.4	209.8	206.3	202.7	199.2
140°	152.9	157.4	161.8	166.3	170.7	175.2	179.6	176.6	173.7	170.7	167.7
142.5°	127.2	131.0	134.9	138.7	142.6	146.4	150.3	148.2	146.1	144.1	142.0
145°	106.1	109.7	113.4	117.0	120.7	124.3	128.0	126.3	124.6	123.0	121.3
147.5°	86.9	90.3	93.8	97.2	100.7	104.1	107.6	106.2	104.8	103.4	102.0
150°	69.7	73.0	76.4	79.7	83.1	86.4	89.8	88.6	87.4	86.2	85.0
152.5°	54.0	57.1	60.3	63.4	66.6	69.7	72.9	71.9	70.9	69.9	68.9
155°	40.3	43.1	45.8	48.6	51.4	54.1	56.9	56.2	55.5	54.8	54.1
157.5°	28.7	31.2	33.7	36.2	38.6	41.1	43.6	43.0	42.4	41.8	41.2
160°	18.3	20.3	22.3	24.3	26.2	28.2	30.2	29.8	29.4	29.0	28.6
162.5°	8.3	9.9	11.5	13.1	14.6	16.2	17.8	17.6	17.4	17.2	17.0
165°	3.0	4.0	4.9	5.9	6.9	7.9	8.9	8.9	8.9	8.9	8.9
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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	858.4	859.4	860.4	861.4	862.4	863.8	865.2	866.6	868.0	869.3	870.7
5°	839.6	840.2	840.8	841.4	842.0	843.7	845.4	847.0	848.7	850.4	852.1
7.5°	819.9	820.3	820.7	821.1	821.5	823.6	825.7	827.7	829.8	831.9	834.0
10°	800.7	801.0	801.3	801.6	801.9	804.0	806.1	808.1	810.2	812.3	814.4
12.5°	784.7	784.8	784.9	785.0	785.1	787.3	789.4	791.6	793.8	795.9	798.1
15°	774.3	774.1	773.9	773.7	773.5	774.9	776.3	777.6	779.0	780.4	781.8
17.5°	770.9	770.0	769.1	768.2	767.3	767.4	767.5	767.6	767.7	767.8	767.9
20°	774.9	773.2	771.6	769.9	768.2	766.3	764.4	762.6	760.7	758.8	756.9
22.5°	781.7	779.4	777.2	774.9	772.6	768.9	765.3	761.6	758.0	754.3	750.7
25°	790.5	788.0	785.5	783.1	780.6	775.4	770.1	764.9	759.7	754.4	749.2
27.5°	798.3	795.4	792.5	789.7	786.8	780.7	774.6	768.4	762.3	756.2	750.1
30°	807.4	804.0	800.6	797.3	793.9	786.7	779.5	772.3	765.1	757.8	750.6
32.5°	820.0	816.2	812.3	808.5	804.6	795.9	787.2	778.5	769.8	761.2	752.5
35°	835.3	830.7	826.2	821.6	817.1	806.8	796.5	786.3	776.0	765.7	755.4
37.5°	853.8	848.2	842.6	836.9	831.3	819.5	807.8	796.0	784.3	772.5	760.8
40°	879.2	872.8	866.3	859.9	853.5	839.6	825.7	811.7	797.8	783.9	770.0
42.5°	909.9	902.7	895.5	888.3	881.1	864.5	847.9	831.3	814.7	798.1	781.5
45°	944.8	936.2	927.6	919.0	910.4	891.2	872.1	852.9	833.7	814.6	795.4
47.5°	987.6	977.4	967.2	957.1	946.9	924.8	902.6	880.5	858.4	836.2	814.1
50°	1037.5	1026.0	1014.4	1002.9	991.3	965.6	939.9	914.3	888.6	862.9	837.2
52.5°	1092.6	1079.9	1067.3	1054.6	1042.0	1012.5	982.9	953.4	923.9	894.3	864.8
55°	1151.5	1137.7	1123.9	1110.0	1096.2	1062.8	1029.4	996.0	962.6	929.3	895.9
57.5°	1212.5	1197.9	1183.2	1168.6	1154.0	1116.8	1079.5	1042.3	1005.0	967.8	930.5
60°	1270.6	1255.7	1240.7	1225.8	1210.9	1170.2	1129.5	1088.8	1048.1	1007.4	966.7
62.5°	1320.5	1305.8	1291.0	1276.3	1261.6	1218.0	1174.5	1130.9	1087.3	1043.8	1000.2
65°	1358.0	1343.7	1329.3	1315.0	1300.7	1255.3	1209.8	1164.4	1118.9	1073.5	1028.0
67.5°	1378.8	1365.3	1351.8	1338.2	1324.7	1278.3	1231.9	1185.4	1139.0	1092.6	1046.2
70°	1378.5	1365.9	1353.4	1340.8	1328.3	1282.0	1235.6	1189.3	1143.0	1096.6	1050.3
72.5°	1351.8	1340.2	1328.5	1316.9	1305.2	1260.1	1215.1	1170.0	1125.0	1079.9	1034.9
75°	1300.7	1290.0	1279.4	1268.7	1258.0	1215.4	1172.9	1130.3	1087.7	1045.2	1002.6
77.5°	1229.5	1218.6	1207.7	1196.9	1186.0	1146.6	1107.2	1067.8	1028.4	988.9	949.5
80°	1139.2	1129.1	1119.1	1109.0	1098.9	1062.9	1027.0	991.0	955.1	919.1	883.2
82.5°	1038.7	1029.3	1019.9	1010.5	1001.1	969.1	937.1	905.1	873.1	841.0	809.0
85°	935.0	926.4	917.8	909.2	900.6	872.4	844.3	816.1	788.0	759.8	731.7
87.5°	835.7	827.7	819.7	811.7	803.7	779.2	754.7	730.2	705.7	681.2	656.7
90°	749.4	742.1	734.8	727.5	720.2	698.5	676.7	655.0	633.3	611.5	589.8
92.5°	682.2	675.7	669.1	662.6	656.1	636.7	617.4	598.0	578.7	559.3	540.0
95°	630.1	624.2	618.2	612.3	606.4	588.5	570.6	552.7	534.8	517.0	499.1
97.5°	587.1	581.5	575.8	570.2	564.6	547.8	531.0	514.2	497.4	480.6	463.8
100°	553.4	548.0	542.6	537.1	531.7	515.6	499.5	483.4	467.3	451.1	435.0
102.5°	526.8	521.6	516.4	511.1	505.9	490.1	474.3	458.5	442.7	426.8	411.0
105°	504.6	499.4	494.2	488.9	483.7	468.2	452.7	437.2	421.7	406.1	390.6
107.5°	485.5	480.4	475.3	470.1	465.0	449.6	434.2	418.8	403.4	387.9	372.5
110°	467.7	462.6	457.5	452.3	447.2	431.8	416.4	401.0	385.6	370.1	354.7



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	450.3	445.1	439.9	434.6	429.4	414.1	398.8	383.5	368.2	352.8	337.5
115°	433.0	427.6	422.3	416.9	411.6	396.3	381.0	365.7	350.4	335.0	319.7
117.5°	414.7	409.3	403.9	398.4	393.0	377.7	362.4	347.1	331.8	316.4	301.1
120°	393.7	388.2	382.7	377.1	371.6	356.6	341.6	326.6	311.6	296.5	281.5
122.5°	369.2	363.6	358.0	352.3	346.7	332.3	317.9	303.4	289.0	274.6	260.2
125°	343.2	337.8	332.5	327.1	321.8	307.8	293.8	279.7	265.7	251.7	237.7
127.5°	313.9	308.8	303.7	298.5	293.4	280.4	267.3	254.3	241.2	228.2	215.1
130°	281.8	277.1	272.5	267.8	263.2	251.3	239.5	227.6	215.8	203.9	192.1
132.5°	254.1	250.1	246.2	242.2	238.3	226.9	215.6	204.2	192.8	181.5	170.1
135°	225.8	222.3	218.7	215.2	211.6	201.4	191.2	181.1	170.9	160.7	150.5
137.5°	195.6	192.1	188.5	185.0	181.4	173.1	164.8	156.5	148.2	139.9	131.6
140°	164.8	161.8	158.8	155.9	152.9	146.2	139.5	132.8	126.1	119.3	112.6
142.5°	139.9	137.8	135.8	133.7	131.6	125.9	120.1	114.4	108.7	102.9	97.2
145°	119.6	117.9	116.3	114.6	112.9	108.0	103.0	98.1	93.2	88.2	83.3
147.5°	100.7	99.3	97.9	96.5	95.1	91.0	86.8	82.7	78.5	74.4	70.2
150°	83.9	82.7	81.5	80.3	79.1	75.5	72.0	68.4	64.9	61.3	57.8
152.5°	68.0	67.0	66.0	65.0	64.0	61.0	58.1	55.1	52.1	49.2	46.2
155°	53.5	52.8	52.1	51.4	50.7	48.2	45.8	43.3	40.8	38.4	35.9
157.5°	40.6	40.0	39.4	38.8	38.2	36.1	34.1	32.0	29.9	27.9	25.8
160°	28.3	27.9	27.5	27.1	26.7	25.1	23.5	21.9	20.3	18.8	17.2
162.5°	16.8	16.6	16.4	16.2	16.0	15.2	14.4	13.6	12.8	12.1	11.3
165°	8.9	8.9	8.9	8.9	8.9	8.6	8.3	8.0	7.7	7.4	7.1
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: P201343

CATALOG NUMBER: 4LBLEDD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	872.1	873.5	874.9	875.3	875.7	876.1	876.5	876.8	877.2	877.6	878.0
5°	853.7	855.4	857.1	858.1	859.1	860.1	861.1	862.0	863.0	864.0	865.0
7.5°	836.0	838.1	840.2	841.5	842.8	844.0	845.3	846.6	847.9	849.1	850.4
10°	816.4	818.5	820.6	822.2	823.8	825.3	826.9	828.5	830.1	831.6	833.2
12.5°	800.3	802.4	804.6	805.8	807.0	808.2	809.4	810.5	811.7	812.9	814.1
15°	783.1	784.5	785.9	787.0	788.1	789.2	790.3	791.3	792.4	793.5	794.6
17.5°	768.0	768.1	768.2	768.8	769.4	770.0	770.6	771.1	771.7	772.3	772.9
20°	755.1	753.2	751.3	751.2	751.1	751.0	750.9	750.8	750.7	750.6	750.5
22.5°	747.0	743.4	739.7	738.2	736.7	735.3	733.8	732.3	730.8	729.4	727.9
25°	744.0	738.7	733.5	729.9	726.4	722.8	719.3	715.7	712.2	708.6	705.1
27.5°	743.9	737.8	731.7	725.4	719.1	712.7	706.4	700.1	693.8	687.4	681.1
30°	743.4	736.2	729.0	720.0	711.0	702.0	693.0	684.1	675.1	666.1	657.1
32.5°	743.8	735.1	726.4	714.9	703.5	692.0	680.5	669.1	657.6	646.1	634.7
35°	745.2	734.9	724.6	710.6	696.5	682.5	668.5	654.4	640.4	626.4	612.3
37.5°	749.0	737.3	725.5	709.0	692.5	676.0	659.5	643.0	626.5	610.0	593.5
40°	756.0	742.1	728.2	709.4	690.6	671.9	653.1	634.3	615.5	596.8	578.0
42.5°	764.9	748.3	731.7	710.9	690.0	669.2	648.3	627.5	606.6	585.8	564.9
45°	776.2	757.1	737.9	714.7	691.5	668.3	645.1	621.8	598.6	575.4	552.2
47.5°	792.0	769.8	747.7	721.8	695.9	670.1	644.2	618.3	592.4	566.6	540.7
50°	811.6	785.9	760.2	731.3	702.3	673.4	644.4	615.5	586.5	557.6	528.6
52.5°	835.3	805.7	776.2	744.0	711.8	679.6	647.4	615.1	582.9	550.7	518.5
55°	862.5	829.1	795.7	759.8	724.0	688.1	652.3	616.4	580.6	544.7	508.9
57.5°	893.3	856.0	818.8	779.1	739.4	699.7	660.0	620.2	580.5	540.8	501.1
60°	926.0	885.3	844.6	800.8	757.1	713.3	669.6	625.8	582.1	538.3	494.6
62.5°	956.6	913.1	869.5	821.8	774.1	726.4	678.7	630.9	583.2	535.5	487.8
65°	982.6	937.1	891.7	840.1	788.6	737.0	685.4	633.9	582.3	530.7	479.2
67.5°	999.7	953.3	906.9	852.1	797.2	742.4	687.6	632.7	577.9	523.1	468.2
70°	1004.0	957.6	911.3	854.3	797.3	740.3	683.3	626.3	569.3	512.3	455.3
72.5°	989.8	944.8	899.7	842.2	784.7	727.2	669.7	612.3	554.8	497.3	439.8
75°	960.0	917.5	874.9	817.9	760.9	703.9	646.9	589.9	532.9	475.9	418.9
77.5°	910.1	870.7	831.3	776.5	721.6	666.8	612.0	557.1	502.3	447.5	392.6
80°	847.2	811.3	775.3	724.0	672.7	621.5	570.2	518.9	467.6	416.4	365.1
82.5°	777.0	745.0	713.0	666.2	619.4	572.5	525.7	478.9	432.1	385.2	338.4
85°	703.5	675.4	647.2	604.5	561.9	519.2	476.5	433.9	391.2	348.5	305.9
87.5°	632.2	607.7	583.2	545.3	507.3	469.4	431.5	393.5	355.6	317.7	279.7
90°	568.1	546.3	524.6	490.6	456.6	422.6	388.6	354.7	320.7	286.7	252.7
92.5°	520.6	501.3	481.9	450.8	419.7	388.5	357.4	326.3	295.2	264.0	232.9
95°	481.2	463.3	445.4	416.7	387.9	359.2	330.4	301.7	272.9	244.2	215.4
97.5°	447.0	430.2	413.4	386.7	360.1	333.4	306.7	280.1	253.4	226.7	200.1
100°	418.9	402.8	386.7	361.5	336.3	311.1	285.9	260.8	235.6	210.4	185.2
102.5°	395.2	379.4	363.6	339.6	315.6	291.6	267.6	243.6	219.6	195.6	171.6
105°	375.1	359.6	344.1	320.9	297.7	274.4	251.2	228.0	204.8	181.5	158.3
107.5°	357.1	341.7	326.3	303.8	281.3	258.7	236.2	213.7	191.2	168.6	146.1
110°	339.3	323.9	308.5	286.9	265.2	243.6	222.0	200.3	178.7	157.1	135.4



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	322.2	306.9	291.6	270.7	249.7	228.8	207.8	186.9	165.9	145.0	124.0
115°	304.4	289.1	273.8	253.8	233.7	213.7	193.6	173.6	153.5	133.5	113.4
117.5°	285.8	270.5	255.2	236.1	217.1	198.0	178.9	159.9	140.8	121.7	102.7
120°	266.5	251.5	236.5	218.7	200.9	183.2	165.4	147.6	129.8	112.1	94.3
122.5°	245.7	231.3	216.9	200.5	184.1	167.7	151.3	134.9	118.5	102.1	85.7
125°	223.6	209.6	195.6	180.8	166.0	151.1	136.3	121.5	106.7	91.8	77.0
127.5°	202.1	189.0	176.0	162.6	149.1	135.7	122.3	108.8	95.4	82.0	68.5
130°	180.2	168.4	156.5	144.5	132.6	120.6	108.7	96.7	84.8	72.8	60.9
132.5°	158.7	147.4	136.0	125.6	115.3	104.9	94.5	84.2	73.8	63.4	53.1
135°	140.4	130.2	120.0	110.8	101.6	92.4	83.2	74.1	64.9	55.7	46.5
137.5°	123.3	115.0	106.7	98.3	89.9	81.5	73.1	64.7	56.3	47.9	39.5
140°	105.9	99.2	92.5	85.0	77.5	70.0	62.5	54.9	47.4	39.9	32.4
142.5°	91.5	85.7	80.0	73.3	66.6	59.9	53.2	46.4	39.7	33.0	26.3
145°	78.4	73.4	68.5	62.6	56.6	50.7	44.8	38.8	32.9	27.0	21.0
147.5°	66.1	61.9	57.8	52.7	47.5	42.4	37.3	32.1	27.0	21.9	16.7
150°	54.2	50.7	47.1	43.0	38.8	34.7	30.5	26.4	22.2	18.1	13.9
152.5°	43.2	40.3	37.3	34.0	30.8	27.5	24.3	21.0	17.8	14.5	11.3
155°	33.4	31.0	28.5	26.0	23.5	21.1	18.6	16.1	13.6	11.2	8.7
157.5°	23.7	21.7	19.6	18.0	16.4	14.8	13.2	11.7	10.1	8.5	6.9
160°	15.6	14.0	12.4	11.4	10.4	9.5	8.5	7.5	6.5	5.6	4.6
162.5°	10.5	9.7	8.9	8.2	7.5	6.8	6.1	5.5	4.8	4.1	3.4
165°	6.8	6.5	6.2	5.7	5.2	4.7	4.2	3.8	3.3	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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	878.4	881.1	883.7	886.4	889.1	891.7	894.4	897.1	899.7	902.4	902.4
5°	866.0	869.6	873.1	876.7	880.2	883.8	887.3	890.9	894.4	898.0	899.1
7.5°	851.7	856.0	860.2	864.5	868.7	873.0	877.2	881.5	885.7	890.0	892.4
10°	834.8	839.7	844.7	849.6	854.6	859.5	864.5	869.4	874.4	879.3	882.8
12.5°	815.3	820.8	826.4	831.9	837.4	843.0	848.5	854.0	859.6	865.1	869.7
15°	795.7	801.6	807.6	813.5	819.4	825.4	831.3	837.2	843.2	849.1	854.8
17.5°	773.5	779.8	786.1	792.5	798.8	805.1	811.4	817.8	824.1	830.4	837.3
20°	750.4	756.7	763.0	769.4	775.7	782.0	788.3	794.7	801.0	807.3	815.6
22.5°	726.4	732.6	738.8	745.1	751.3	757.5	763.7	770.0	776.2	782.4	792.0
25°	701.5	707.8	714.1	720.5	726.8	733.1	739.4	745.8	752.1	758.4	769.1
27.5°	674.8	680.6	686.5	692.3	698.1	704.0	709.8	715.6	721.5	727.3	739.6
30°	648.1	653.3	658.6	663.8	669.1	674.3	679.6	684.8	690.1	695.3	709.2
32.5°	623.2	627.6	631.9	636.3	640.6	645.0	649.3	653.7	658.0	662.4	677.8
35°	598.3	601.7	605.0	608.4	611.8	615.1	618.5	621.9	625.2	628.6	645.6
37.5°	577.0	578.9	580.8	582.6	584.5	586.4	588.3	590.1	592.0	593.9	612.9
40°	559.2	559.0	558.8	558.6	558.4	558.3	558.1	557.9	557.7	557.5	578.8
42.5°	544.1	541.6	539.2	536.7	534.2	531.8	529.3	526.8	524.4	521.9	545.5
45°	529.0	524.3	519.5	514.8	510.0	505.3	500.5	495.8	491.0	486.3	512.2
47.5°	514.8	507.6	500.4	493.2	486.0	478.7	471.5	464.3	457.1	449.9	478.1
50°	499.7	490.2	480.7	471.2	461.7	452.3	442.8	433.3	423.8	414.3	444.9
52.5°	486.3	474.3	462.4	450.4	438.5	426.5	414.6	402.6	390.7	378.7	411.9
55°	473.0	458.8	444.6	430.3	416.1	401.9	387.7	373.4	359.2	345.0	380.7
57.5°	461.4	444.8	428.2	411.6	395.0	378.5	361.9	345.3	328.7	312.1	350.2
60°	450.8	431.8	412.9	393.9	374.9	356.0	337.0	318.0	299.1	280.1	320.8
62.5°	440.1	418.9	397.6	376.4	355.1	333.9	312.6	291.4	270.1	248.9	292.1
65°	427.6	404.4	381.2	358.0	334.8	311.5	288.3	265.1	241.9	218.7	264.1
67.5°	413.4	388.3	363.2	338.1	313.0	288.0	262.9	237.8	212.7	187.6	235.3
70°	398.3	371.8	345.3	318.9	292.4	265.9	239.4	213.0	186.5	160.0	209.3
72.5°	382.3	354.6	327.0	299.3	271.7	244.0	216.4	188.7	161.1	133.4	183.7
75°	361.9	333.7	305.6	277.4	249.3	221.1	193.0	164.8	136.7	108.5	159.3
77.5°	337.8	309.8	281.7	253.7	225.6	197.6	169.5	141.5	113.4	85.4	135.9
80°	313.8	286.0	258.3	230.5	202.8	175.0	147.3	119.5	91.8	64.0	113.9
82.5°	291.6	264.0	236.5	208.9	181.4	153.8	126.3	98.7	71.2	43.6	92.2
85°	263.2	236.9	210.6	184.4	158.1	131.8	105.5	79.3	53.0	26.7	73.3
87.5°	241.8	216.1	190.4	164.8	139.1	113.4	87.7	62.1	36.4	10.7	55.1
90°	218.7	194.4	170.1	145.8	121.5	97.2	72.9	48.6	24.3	0.0	41.5
92.5°	201.8	179.4	157.0	134.5	112.1	89.7	67.3	44.8	22.4	0.0	38.4
95°	186.7	166.0	145.2	124.5	103.7	83.0	62.2	41.5	20.7	0.0	35.4
97.5°	173.4	154.1	134.9	115.6	96.3	77.1	57.8	38.5	19.3	0.0	32.4
100°	160.0	142.2	124.4	106.7	88.9	71.1	53.3	35.6	17.8	0.0	29.6
102.5°	147.6	131.3	115.0	98.7	82.4	66.1	49.8	33.5	17.2	0.9	27.9
105°	135.1	120.2	105.3	90.4	75.5	60.5	45.6	30.7	15.8	0.9	25.5
107.5°	123.6	109.9	96.1	82.4	68.7	54.9	41.2	27.5	13.7	0.0	22.2
110°	113.8	101.2	88.5	75.9	63.2	50.6	37.9	25.3	12.6	0.0	20.1



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	103.1	91.7	80.4	69.0	57.7	46.3	35.0	23.6	12.3	0.9	19.1
115°	93.4	83.1	72.8	62.6	52.3	42.0	31.7	21.5	11.2	0.9	17.4
117.5°	83.6	74.4	65.2	56.0	46.8	37.7	28.5	19.3	10.1	0.9	15.8
120°	76.5	68.1	59.7	51.3	42.9	34.5	26.1	17.7	9.3	0.9	14.4
122.5°	69.3	61.7	54.1	46.5	38.9	31.3	23.7	16.1	8.5	0.9	13.0
125°	62.2	55.4	48.6	41.8	35.0	28.1	21.3	14.5	7.7	0.9	11.5
127.5°	55.1	49.1	43.1	37.0	31.0	25.0	19.0	12.9	6.9	0.9	9.8
130°	48.9	43.6	38.2	32.9	27.6	22.2	16.9	11.6	6.2	0.9	8.2
132.5°	42.7	38.1	33.4	28.8	24.1	19.5	14.8	10.2	5.5	0.9	6.7
135°	37.3	33.3	29.2	25.2	21.1	17.1	13.0	9.0	4.9	0.9	5.4
137.5°	31.1	27.7	24.4	21.0	17.7	14.3	11.0	7.6	4.3	0.9	4.2
140°	24.9	22.2	19.6	16.9	14.2	11.6	8.9	6.2	3.6	0.9	3.2
142.5°	19.6	17.5	15.4	13.4	11.3	9.2	7.1	5.1	3.0	0.9	2.4
145°	15.1	13.5	11.9	10.4	8.8	7.2	5.6	4.1	2.5	0.9	1.9
147.5°	11.6	10.4	9.2	8.0	6.8	5.7	4.5	3.3	2.1	0.9	1.7
150°	9.8	8.8	7.8	6.8	5.8	4.9	3.9	2.9	1.9	0.9	1.4
152.5°	8.0	7.3	6.6	5.9	5.2	4.6	3.9	3.2	2.5	1.8	2.1
155°	6.2	5.7	5.2	4.7	4.2	3.8	3.3	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°	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.8
162.5°	2.7	2.5	2.3	2.1	1.9	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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	903.3	904.2	905.1
5°	900.2	901.2	902.3	903.4	904.5	905.5	906.6	907.7	909.6	911.5	913.3
7.5°	894.7	897.1	899.5	901.8	904.2	906.6	908.9	911.3	914.2	917.0	919.9
10°	886.2	889.7	893.1	896.6	900.0	903.5	906.9	910.4	914.4	918.3	922.3
12.5°	874.4	879.0	883.7	888.3	893.0	897.6	902.3	906.9	912.0	917.2	922.3
15°	860.5	866.3	872.0	877.7	883.4	889.2	894.9	900.6	907.1	913.6	920.2
17.5°	844.2	851.1	858.0	865.0	871.9	878.8	885.7	892.6	900.6	908.6	916.6
20°	823.9	832.2	840.5	848.8	857.1	865.4	873.7	882.0	891.7	901.4	911.0
22.5°	801.6	811.1	820.7	830.3	839.9	849.4	859.0	868.6	880.7	892.7	904.8
25°	779.7	790.4	801.1	811.7	822.4	833.1	843.7	854.4	869.2	884.0	898.9
27.5°	752.0	764.3	776.7	789.0	801.4	813.7	826.1	838.4	856.2	874.0	891.7
30°	723.1	737.1	751.0	764.9	778.8	792.8	806.7	820.6	841.2	861.9	882.5
32.5°	693.2	708.6	724.0	739.5	754.9	770.3	785.7	801.1	825.0	848.9	872.8
35°	662.6	679.6	696.6	713.5	730.5	747.5	764.5	781.5	808.6	835.6	862.7
37.5°	631.8	650.8	669.8	688.7	707.7	726.7	745.6	764.6	794.6	824.7	854.7
40°	600.2	621.5	642.8	664.2	685.5	706.8	728.2	749.5	782.6	815.7	848.8
42.5°	569.1	592.7	616.3	640.0	663.6	687.2	710.8	734.4	770.9	807.5	844.0
45°	538.1	564.0	589.9	615.7	641.6	667.5	693.4	719.3	759.7	800.1	840.5
47.5°	506.4	534.6	562.9	591.1	619.4	647.6	675.9	704.1	748.7	793.2	837.8
50°	475.5	506.2	536.8	567.4	598.0	628.7	659.3	689.9	738.6	787.3	836.0
52.5°	445.1	478.3	511.5	544.7	577.9	611.1	644.3	677.5	730.9	784.4	837.8
55°	416.3	452.0	487.6	523.3	558.9	594.6	630.2	665.9	725.1	784.3	843.4
57.5°	388.4	426.5	464.6	502.8	540.9	579.0	617.2	655.3	720.1	784.9	849.7
60°	361.5	402.2	442.9	483.6	524.3	565.0	605.7	646.4	717.3	788.2	859.2
62.5°	335.3	378.4	421.6	464.8	508.0	551.1	594.3	637.5	714.7	792.0	869.2
65°	309.6	355.0	400.5	445.9	491.4	536.8	582.3	627.7	711.0	794.3	877.5
67.5°	283.0	330.7	378.4	426.2	473.9	521.6	569.3	617.0	705.5	794.0	882.5
70°	258.6	307.9	357.2	406.5	455.8	505.1	554.4	603.7	696.1	788.4	880.8
72.5°	234.0	284.2	334.5	384.8	435.1	485.3	535.6	585.9	680.1	774.4	868.6
75°	210.1	260.8	311.6	362.4	413.2	463.9	514.7	565.5	659.3	753.2	847.0
77.5°	186.4	236.8	287.3	337.8	388.3	438.7	489.2	539.7	630.7	721.7	812.6
80°	163.8	213.7	263.6	313.4	363.3	413.2	463.1	513.0	598.9	684.9	770.8
82.5°	140.8	189.4	238.0	286.6	335.2	383.8	432.4	481.0	561.2	641.4	721.6
85°	119.9	166.6	213.2	259.8	306.4	353.1	399.7	446.3	519.8	593.3	666.8
87.5°	99.4	143.8	188.1	232.5	276.8	321.2	365.5	409.9	476.6	543.3	609.9
90°	83.0	124.5	166.0	207.4	248.9	290.4	331.9	373.4	434.1	494.7	555.4
92.5°	76.9	115.3	153.7	192.2	230.6	269.0	307.5	345.9	401.0	456.1	511.3
95°	70.7	106.1	141.5	176.8	212.2	247.6	282.9	318.3	369.1	419.9	470.6
97.5°	64.8	97.2	129.6	162.0	194.4	226.8	259.2	291.6	338.7	385.8	433.0
100°	59.3	88.9	118.5	148.2	177.8	207.4	237.1	266.7	311.0	355.2	399.5
102.5°	54.8	81.8	108.8	135.7	162.7	189.7	216.6	243.6	285.6	327.6	369.6
105°	50.1	74.7	99.3	123.9	148.5	173.1	197.7	222.3	262.2	302.1	342.0
107.5°	44.4	66.7	88.9	111.1	133.3	155.6	177.8	200.0	238.3	276.7	315.0
110°	40.1	60.2	80.2	100.3	120.3	140.4	160.4	180.5	217.0	253.6	290.1



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	37.3	55.4	73.6	91.8	110.0	128.1	146.3	164.5	199.3	234.0	268.8
115°	33.9	50.4	66.9	83.4	99.9	116.4	132.9	149.4	182.6	215.8	249.0
117.5°	30.7	45.6	60.5	75.5	90.4	105.3	120.2	135.1	166.6	198.1	229.7
120°	28.0	41.5	55.0	68.6	82.1	95.6	109.2	122.7	152.0	181.4	210.7
122.5°	25.0	37.1	49.1	61.2	73.2	85.3	97.3	109.4	136.5	163.5	190.6
125°	22.0	32.6	43.2	53.7	64.3	74.9	85.4	96.0	121.1	146.2	171.3
127.5°	18.7	27.6	36.5	45.3	54.2	63.1	72.0	80.9	104.3	127.7	151.1
130°	15.5	22.8	30.1	37.5	44.8	52.1	59.4	66.7	87.8	109.0	130.1
132.5°	12.5	18.4	24.2	30.0	35.8	41.7	47.5	53.3	72.1	90.9	109.6
135°	10.0	14.5	19.1	23.6	28.2	32.7	37.3	41.8	58.0	74.2	90.4
137.5°	7.4	10.7	13.9	17.2	20.4	23.7	26.9	30.2	44.3	58.5	72.6
140°	5.4	7.7	10.0	12.2	14.5	16.8	19.0	21.3	33.6	45.8	58.1
142.5°	3.9	5.3	6.8	8.3	9.8	11.2	12.7	14.2	24.6	35.0	45.3
145°	2.9	3.9	4.9	5.8	6.8	7.8	8.8	9.8	18.2	26.6	35.0
147.5°	2.5	3.3	4.1	4.8	5.6	6.4	7.2	8.0	14.5	21.0	27.6
150°	1.9	2.4	2.9	3.3	3.8	4.3	4.8	5.3	10.2	15.2	20.1
152.5°	2.4	2.7	3.0	3.2	3.5	3.8	4.1	4.4	7.8	11.1	14.5
155°	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	5.6	7.5	9.5
157.5°	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	3.8	4.9	5.9
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3	2.8	3.3
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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	906.0	906.8	907.7	908.6	909.5	910.4	910.9	911.4	911.9	912.4	912.9
5°	915.2	917.1	919.0	920.8	922.7	924.6	925.6	926.6	927.6	928.6	929.5
7.5°	922.8	925.6	928.5	931.4	934.2	937.1	938.9	940.7	942.4	944.2	946.0
10°	926.2	930.2	934.1	938.1	942.0	946.0	948.9	951.7	954.6	957.5	960.3
12.5°	927.4	932.6	937.7	942.8	948.0	953.1	957.0	960.8	964.7	968.5	972.4
15°	926.7	933.2	939.7	946.3	952.8	959.3	964.2	969.2	974.1	979.1	984.0
17.5°	924.6	932.6	940.6	948.6	956.6	964.6	971.4	978.2	985.1	991.9	998.7
20°	920.7	930.4	940.1	949.7	959.4	969.1	978.2	987.3	996.4	1005.5	1014.5
22.5°	916.8	928.9	940.9	953.0	965.0	977.1	987.8	998.4	1009.1	1019.8	1030.4
25°	913.7	928.5	943.3	958.2	973.0	987.8	999.9	1012.1	1024.2	1036.4	1048.5
27.5°	909.5	927.3	945.1	962.8	980.6	998.4	1011.9	1025.5	1039.0	1052.5	1066.1
30°	903.2	923.8	944.5	965.1	985.8	1006.4	1021.8	1037.2	1052.6	1068.0	1083.5
32.5°	896.7	920.6	944.5	968.4	992.3	1016.2	1033.7	1051.2	1068.7	1086.2	1103.6
35°	889.8	916.8	943.9	971.0	998.0	1025.1	1045.1	1065.0	1085.0	1104.9	1124.9
37.5°	884.7	914.8	944.8	974.8	1004.9	1034.9	1057.9	1080.9	1103.9	1126.9	1150.0
40°	881.9	914.9	948.0	981.1	1014.2	1047.3	1073.7	1100.1	1126.4	1152.8	1179.2
42.5°	880.6	917.1	953.7	990.2	1026.8	1063.3	1093.6	1124.0	1154.3	1184.6	1215.0
45°	880.9	921.3	961.7	1002.1	1042.5	1082.9	1117.8	1152.6	1187.5	1222.4	1257.2
47.5°	882.3	926.9	971.4	1016.0	1060.5	1105.1	1145.3	1185.5	1225.7	1265.9	1306.2
50°	884.7	933.4	982.1	1030.8	1079.5	1128.2	1174.5	1220.9	1267.2	1313.5	1359.9
52.5°	891.3	944.7	998.2	1051.6	1105.1	1158.5	1211.1	1263.8	1316.4	1369.1	1421.7
55°	902.6	961.8	1021.0	1080.1	1139.3	1198.5	1257.1	1315.7	1374.2	1432.8	1491.4
57.5°	914.5	979.3	1044.1	1108.9	1173.7	1238.5	1303.1	1367.7	1432.3	1496.9	1561.5
60°	930.1	1001.0	1071.9	1142.9	1213.8	1284.7	1354.5	1424.4	1494.2	1564.1	1633.9
62.5°	946.5	1023.7	1101.0	1178.2	1255.5	1332.7	1406.8	1480.9	1555.0	1629.1	1703.1
65°	960.8	1044.1	1127.4	1210.6	1293.9	1377.2	1454.2	1531.1	1608.1	1685.0	1762.0
67.5°	971.0	1059.6	1148.1	1236.6	1325.1	1413.6	1491.7	1569.9	1648.0	1726.2	1804.3
70°	973.2	1065.5	1157.9	1250.3	1342.6	1435.0	1512.7	1590.5	1668.2	1746.0	1823.7
72.5°	962.9	1057.1	1151.4	1245.6	1339.9	1434.1	1510.0	1585.8	1661.7	1737.6	1813.4
75°	940.9	1034.7	1128.6	1222.4	1316.3	1410.1	1482.6	1555.1	1627.6	1700.1	1772.7
77.5°	903.6	994.6	1085.6	1176.5	1267.5	1358.5	1427.8	1497.0	1566.3	1635.5	1704.8
80°	856.8	942.7	1028.7	1114.6	1200.6	1286.5	1350.7	1414.9	1479.1	1543.3	1607.6
82.5°	801.8	882.1	962.3	1042.5	1122.7	1202.9	1261.3	1319.7	1378.1	1436.5	1494.8
85°	740.3	813.8	887.3	960.8	1034.3	1107.8	1160.8	1213.9	1266.9	1320.0	1373.0
87.5°	676.6	743.3	810.0	876.6	943.3	1010.0	1057.7	1105.4	1153.1	1200.8	1248.6
90°	616.0	676.7	737.3	798.0	858.6	919.3	962.3	1005.3	1048.2	1091.2	1134.2
92.5°	566.4	621.5	676.6	731.8	786.9	842.0	881.3	920.6	959.9	999.2	1038.6
95°	521.4	572.2	623.0	673.7	724.5	775.3	812.4	849.6	886.7	923.9	961.0
97.5°	480.1	527.2	574.3	621.5	668.6	715.7	750.5	785.3	820.0	854.8	889.6
100°	443.7	488.0	532.2	576.5	620.7	665.0	698.5	732.0	765.5	799.0	832.4
102.5°	411.6	453.5	495.5	537.5	579.5	621.5	654.0	686.5	719.0	751.5	784.0
105°	381.9	421.9	461.8	501.7	541.6	581.5	613.0	644.5	676.0	707.5	739.1
107.5°	353.3	391.7	430.0	468.3	506.7	545.0	576.1	607.2	638.4	669.5	700.6
110°	326.7	363.2	399.8	436.3	472.9	509.4	540.0	570.7	601.3	631.9	662.6



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	303.6	338.3	373.1	407.9	442.6	477.4	507.1	536.9	566.6	596.3	626.1
115°	282.2	315.3	348.5	381.7	414.9	448.1	476.5	504.8	533.2	561.5	589.9
117.5°	261.2	292.7	324.2	355.8	387.3	418.8	446.0	473.1	500.3	527.5	554.6
120°	240.0	269.4	298.7	328.0	357.4	386.7	413.3	439.9	466.4	493.0	519.6
122.5°	217.7	244.7	271.8	298.9	325.9	353.0	379.0	405.0	430.9	456.9	482.9
125°	196.4	221.4	246.5	271.6	296.7	321.8	346.4	371.0	395.6	420.2	444.8
127.5°	174.5	198.0	221.4	244.8	268.2	291.6	314.1	336.6	359.2	381.7	404.2
130°	151.2	172.4	193.5	214.6	235.8	256.9	277.6	298.2	318.9	339.5	360.2
132.5°	128.4	147.2	166.0	184.7	203.5	222.3	241.8	261.2	280.7	300.1	319.6
135°	106.6	122.8	139.0	155.2	171.4	187.6	206.5	225.3	244.2	263.1	281.9
137.5°	86.7	100.9	115.0	129.1	143.3	157.4	174.8	192.2	209.5	226.9	244.3
140°	70.3	82.6	94.8	107.1	119.3	131.6	146.4	161.2	176.0	190.8	205.7
142.5°	55.7	66.1	76.5	86.8	97.2	107.6	120.2	132.9	145.5	158.2	170.8
145°	43.4	51.8	60.2	68.6	77.0	85.4	95.9	106.3	116.8	127.3	137.7
147.5°	34.1	40.6	47.1	53.7	60.2	66.7	75.3	83.9	92.5	101.1	109.6
150°	25.1	30.0	35.0	39.9	44.9	49.8	57.1	64.4	71.7	79.0	86.4
152.5°	17.9	21.2	24.6	28.0	31.3	34.7	40.5	46.3	52.2	58.0	63.8
155°	11.5	13.4	15.4	17.4	19.3	21.3	25.8	30.4	34.9	39.5	44.0
157.5°	7.0	8.1	9.2	10.2	11.3	12.4	15.7	18.9	22.2	25.5	28.7
160°	3.8	4.2	4.7	5.2	5.7	6.2	8.1	10.0	11.8	13.7	15.6
162.5°	1.7	1.9	2.1	2.3	2.5	2.7	3.6	4.5	5.4	6.3	7.1
165°	0.5	0.4	0.3	0.2	0.1	0.0	0.3	0.6	0.9	1.2	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLELD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1	889.1
2.5°	913.4	913.9	914.4	914.9	914.0	913.1	912.2	911.3	910.5	909.6	908.7
5°	930.5	931.5	932.5	933.5	933.5	933.5	933.5	933.5	933.5	933.5	933.5
7.5°	947.8	949.5	951.3	953.1	953.3	953.5	953.7	953.9	954.1	954.3	954.5
10°	963.2	966.1	968.9	971.8	972.1	972.4	972.7	973.0	973.2	973.5	973.8
12.5°	976.2	980.1	983.9	987.8	988.8	989.8	990.8	991.8	992.7	993.7	994.7
15°	989.0	993.9	998.9	1003.8	1005.6	1007.4	1009.1	1010.9	1012.7	1014.5	1016.2
17.5°	1005.5	1012.4	1019.2	1026.0	1028.5	1030.9	1033.4	1035.9	1038.3	1040.8	1043.3
20°	1023.6	1032.7	1041.8	1050.9	1053.9	1056.8	1059.8	1062.8	1065.7	1068.7	1071.7
22.5°	1041.1	1051.8	1062.4	1073.1	1076.9	1080.6	1084.4	1088.1	1091.9	1095.6	1099.4
25°	1060.7	1072.8	1085.0	1097.1	1101.1	1105.0	1109.0	1112.9	1116.9	1120.8	1124.8
27.5°	1079.6	1093.1	1106.7	1120.2	1124.9	1129.7	1134.4	1139.2	1143.9	1148.7	1153.4
30°	1098.9	1114.3	1129.7	1145.1	1150.7	1156.4	1162.0	1167.6	1173.3	1178.9	1184.5
32.5°	1121.1	1138.6	1156.1	1173.6	1180.4	1187.2	1194.0	1200.8	1207.7	1214.5	1221.3
35°	1144.8	1164.8	1184.7	1204.7	1212.9	1221.1	1229.3	1237.5	1245.7	1253.9	1262.1
37.5°	1173.0	1196.0	1219.0	1242.0	1251.8	1261.6	1271.4	1281.2	1290.9	1300.7	1310.5
40°	1205.6	1231.9	1258.3	1284.7	1296.4	1308.0	1319.7	1331.3	1343.0	1354.6	1366.3
42.5°	1245.3	1275.6	1306.0	1336.3	1349.8	1363.4	1376.9	1390.4	1404.0	1417.5	1431.0
45°	1292.1	1327.0	1361.8	1396.7	1412.4	1428.1	1443.8	1459.5	1475.3	1491.0	1506.7
47.5°	1346.4	1386.6	1426.8	1467.0	1484.9	1502.8	1520.6	1538.5	1556.4	1574.3	1592.1
50°	1406.2	1452.5	1498.9	1545.2	1565.5	1585.7	1606.0	1626.2	1646.5	1666.7	1687.0
52.5°	1474.4	1527.0	1579.7	1632.3	1654.8	1677.4	1699.9	1722.4	1745.0	1767.5	1790.0
55°	1550.0	1608.5	1667.1	1725.7	1749.9	1774.1	1798.3	1822.5	1846.7	1870.9	1895.1
57.5°	1626.1	1690.7	1755.3	1819.9	1845.6	1871.3	1897.0	1922.7	1948.3	1974.0	1999.7
60°	1703.8	1773.6	1843.5	1913.3	1939.8	1966.3	1992.7	2019.2	2045.7	2072.2	2098.6
62.5°	1777.2	1851.3	1925.4	1999.5	2025.9	2052.3	2078.6	2105.0	2131.4	2157.8	2184.1
65°	1838.9	1915.9	1992.8	2069.8	2095.6	2121.4	2147.1	2172.9	2198.7	2224.5	2250.2
67.5°	1882.5	1960.6	2038.8	2116.9	2142.1	2167.3	2192.5	2217.7	2242.8	2268.0	2293.2
70°	1901.5	1979.2	2057.0	2134.7	2158.9	2183.1	2207.3	2231.5	2255.7	2279.9	2304.1
72.5°	1889.3	1965.2	2041.0	2116.9	2140.0	2163.1	2186.2	2209.3	2232.5	2255.6	2278.7
75°	1845.2	1917.7	1990.2	2062.7	2084.7	2106.7	2128.8	2150.8	2172.8	2194.8	2216.9
77.5°	1774.0	1843.3	1912.5	1981.8	2001.8	2021.9	2041.9	2062.0	2082.0	2102.1	2122.1
80°	1671.8	1736.0	1800.2	1864.4	1883.4	1902.3	1921.3	1940.3	1959.2	1978.2	1997.2
82.5°	1553.2	1611.6	1670.0	1728.4	1746.2	1764.0	1781.7	1799.5	1817.3	1835.1	1852.8
85°	1426.1	1479.1	1532.2	1585.2	1601.7	1618.2	1634.7	1651.2	1667.7	1684.2	1700.7
87.5°	1296.3	1344.0	1391.7	1439.4	1455.0	1470.6	1486.2	1501.8	1517.5	1533.1	1548.7
90°	1177.2	1220.1	1263.1	1306.1	1320.9	1335.7	1350.5	1365.3	1380.2	1395.0	1409.8
92.5°	1077.9	1117.2	1156.5	1195.8	1209.8	1223.9	1237.9	1251.9	1266.0	1280.0	1294.0
95°	998.2	1035.3	1072.5	1109.6	1122.2	1134.9	1147.5	1160.2	1172.8	1185.5	1198.1
97.5°	924.4	959.1	993.9	1028.7	1041.3	1054.0	1066.6	1079.3	1091.9	1104.6	1117.2
100°	865.9	899.4	932.9	966.4	978.7	990.9	1003.2	1015.4	1027.7	1039.9	1052.2
102.5°	816.5	849.0	881.5	914.0	926.0	938.1	950.1	962.2	974.2	986.3	998.3
105°	770.6	802.1	833.6	865.1	877.5	890.0	902.4	914.9	927.3	939.8	952.2
107.5°	731.7	762.9	794.0	825.1	837.3	849.6	861.8	874.1	886.3	898.6	910.8
110°	693.2	723.8	754.5	785.1	797.2	809.4	821.5	833.7	845.8	858.0	870.1



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	655.8	685.5	715.3	745.0	757.1	769.1	781.2	793.2	805.3	817.3	829.4
115°	618.2	646.6	674.9	703.3	715.2	727.0	738.9	750.7	762.6	774.4	786.3
117.5°	581.8	609.0	636.1	663.3	674.5	685.6	696.8	707.9	719.1	730.2	741.4
120°	546.2	572.7	599.3	625.9	636.5	647.0	657.6	668.2	678.7	689.3	699.9
122.5°	508.9	534.8	560.8	586.8	597.1	607.4	617.6	627.9	638.2	648.5	658.7
125°	469.4	494.0	518.6	543.2	553.4	563.6	573.7	583.9	594.1	604.3	614.4
127.5°	426.7	449.3	471.8	494.3	504.3	514.3	524.2	534.2	544.2	554.2	564.1
130°	380.8	401.5	422.1	442.8	452.2	461.6	470.9	480.3	489.7	499.1	508.4
132.5°	339.0	358.5	377.9	397.4	405.4	413.4	421.4	429.4	437.4	445.4	453.4
135°	300.8	319.7	338.5	357.4	364.2	371.0	377.9	384.7	391.5	398.3	405.2
137.5°	261.7	279.0	296.4	313.8	320.4	327.0	333.7	340.3	346.9	353.5	360.2
140°	220.5	235.3	250.1	264.9	271.9	278.9	286.0	293.0	300.0	307.0	314.1
142.5°	183.5	196.1	208.8	221.4	228.4	235.4	242.4	249.4	256.5	263.5	270.5
145°	148.2	158.7	169.1	179.6	186.7	193.8	200.9	208.0	215.2	222.3	229.4
147.5°	118.2	126.8	135.4	144.0	150.7	157.4	164.2	170.9	177.6	184.3	191.1
150°	93.7	101.0	108.3	115.6	121.6	127.6	133.7	139.7	145.7	151.7	157.8
152.5°	69.6	75.5	81.3	87.1	92.7	98.4	104.0	109.6	115.3	120.9	126.5
155°	48.6	53.1	57.7	62.2	67.2	72.3	77.3	82.4	87.4	92.5	97.5
157.5°	32.0	35.3	38.5	41.8	46.0	50.3	54.5	58.8	63.0	67.3	71.5
160°	17.5	19.3	21.2	23.1	26.6	30.0	33.5	36.9	40.4	43.8	47.3
162.5°	8.0	8.9	9.8	10.7	13.0	15.2	17.5	19.8	22.0	24.3	26.6
165°	1.8	2.1	2.4	2.7	4.1	5.5	6.8	8.2	9.6	11.0	12.3
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: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	889.1	889.1
2.5°	907.8	906.9
5°	933.5	933.5
7.5°	954.7	954.9
10°	974.1	974.4
12.5°	995.7	996.7
15°	1018.0	1019.8
17.5°	1045.7	1048.2
20°	1074.6	1077.6
22.5°	1103.1	1106.9
25°	1128.7	1132.7
27.5°	1158.2	1162.9
30°	1190.2	1195.8
32.5°	1228.1	1234.9
35°	1270.3	1278.5
37.5°	1320.3	1330.1
40°	1377.9	1389.6
42.5°	1444.6	1458.1
45°	1522.4	1538.1
47.5°	1610.0	1627.9
50°	1707.2	1727.5
52.5°	1812.6	1835.1
55°	1919.3	1943.5
57.5°	2025.4	2051.1
60°	2125.1	2151.6
62.5°	2210.5	2236.9
65°	2276.0	2301.8
67.5°	2318.4	2343.6
70°	2328.3	2352.5
72.5°	2301.8	2324.9
75°	2238.9	2260.9
77.5°	2142.2	2162.2
80°	2016.1	2035.1
82.5°	1870.6	1888.4
85°	1717.2	1733.7
87.5°	1564.3	1579.9
90°	1424.6	1439.4
92.5°	1308.1	1322.1
95°	1210.8	1223.4
97.5°	1129.9	1142.5
100°	1064.4	1076.7
102.5°	1010.4	1022.4
105°	964.7	977.1
107.5°	923.1	935.3
110°	882.3	894.4



TEST NUMBER: P201343

CATALOG NUMBER: 4LBLED-LD4-7-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	841.4	853.5
115°	798.1	810.0
117.5°	752.5	763.7
120°	710.4	721.0
122.5°	669.0	679.3
125°	624.6	634.8
127.5°	574.1	584.1
130°	517.8	527.2
132.5°	461.4	469.4
135°	412.0	418.8
137.5°	366.8	373.4
140°	321.1	328.1
142.5°	277.5	284.5
145°	236.5	243.6
147.5°	197.8	204.5
150°	163.8	169.8
152.5°	132.2	137.8
155°	102.6	107.6
157.5°	75.8	80.0
160°	50.7	54.2
162.5°	28.8	31.1
165°	13.7	15.1
167.5°	0.0	0.0
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)