

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: P201349

Luminaire Tested: **4LBLED-LD4-9-ASYMF-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28236)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-9-ASYMF-UNV-L840-CD2-U
Description: 4 ft. Low Bay Linear, 9000 lm, Frst Asym lens, 4K
Light Source: (308) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
OT50W0980CC, OT50W0600CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9621.1 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 2 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

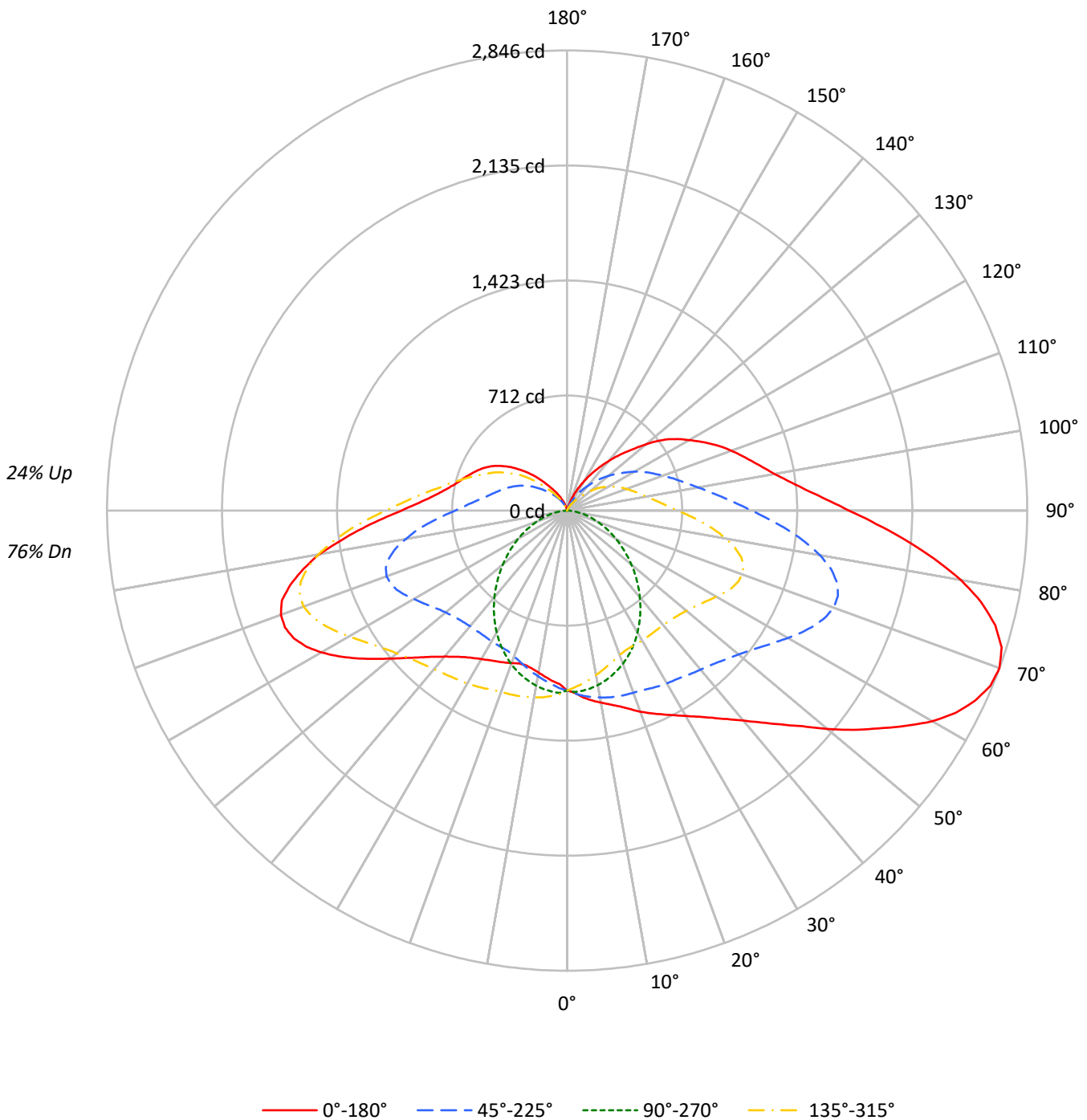
Input Watts (W): 72.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	27	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°	17931	17931	17931	17931
5°	16931	17999	15416	18079
10°	16176	17768	13643	17833
15°	15681	17405	12383	17471
20°	15617	16979	11846	17013
25°	15639	16404	11572	16421
30°	15873	15718	11472	15736
35°	16438	14941	11619	14960
40°	17436	14095	12125	14115
45°	18977	13179	13017	13179
50°	21198	12239	14364	12263
55°	23743	11261	16108	11310
60°	26613	10277	17906	10336
65°	28906	9320	19392	9354
70°	30322	8113	20073	8195
75°	30214	7034	19534	7190
80°	28452	5654	17934	5797
85°	25504	3711	15444	3943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.1
10°-20°	308.3	3.2
20°-30°	496.8	5.2
30°-40°	672.8	7.0
40°-50°	863.2	9.0
50°-60°	1102.9	11.5
60°-70°	1346.9	14.0
70°-80°	1376.7	14.3
80°-90°	1079.1	11.2
90°-100°	753.4	7.8
100°-110°	561.6	5.8
110°-120°	420.1	4.4
120°-130°	285.2	3.0
130°-140°	158.0	1.6
140°-150°	68.0	0.7
150°-160°	20.3	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	910.8	9.5
0°-40°	1583.6	16.5
0°-60°	3549.6	36.9
0°-90°	7352.3	76.4
90°-120°	1735.1	18.0
90°-150°	2246.3	23.3
90°-180°	2269.0	23.6
0°-180°	9621.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1113	1113	1113	1113	1113	
5°	1161	1118	1057	1123	1161	112
15°	1254	1058	990	1062	1254	358
25°	1390	945	1029	946	1390	646
35°	1564	787	1106	788	1564	989
45°	1870	608	1283	608	1870	1460
55°	2348	431	1593	432	2348	2115
65°	2783	272	1867	273	2783	2744
75°	2741	135	1772	138	2741	2866
85°	2102	32	1273	34	2102	1793
90°	1743	0	1024	1	1743	959
95°	1480	0	861	0	1480	1175
105°	1182	0	692	1	1182	1255
115°	979	0	599	1	979	972
125°	769	0	478	1	769	687
135°	510	0	320	1	510	400
145°	300	0	169	1	300	192
155°	134	0	76	2	134	65
165°	21	0	13	2	21	8
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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1129.8	1129.6	1129.4	1129.1	1128.9	1128.7	1128.5	1128.2	1128.0	1127.8	1128.4
5°	1160.8	1159.7	1158.6	1157.5	1156.4	1155.2	1154.1	1153.0	1151.9	1150.8	1150.7
7.5°	1184.8	1183.4	1181.9	1180.5	1179.0	1177.6	1176.1	1174.7	1173.2	1171.8	1170.8
10°	1205.7	1203.8	1201.9	1200.1	1198.2	1196.3	1194.4	1192.6	1190.7	1188.8	1187.1
12.5°	1228.7	1226.5	1224.3	1222.0	1219.8	1217.6	1215.4	1213.1	1210.9	1208.7	1205.9
15°	1253.7	1251.0	1248.4	1245.7	1243.0	1240.4	1237.7	1235.0	1232.4	1229.7	1225.4
17.5°	1286.7	1282.9	1279.1	1275.4	1271.6	1267.8	1264.0	1260.3	1256.5	1252.7	1246.3
20°	1323.6	1318.6	1313.6	1308.6	1303.6	1298.7	1293.7	1288.7	1283.7	1278.7	1269.8
22.5°	1356.6	1350.8	1345.0	1339.3	1333.5	1327.7	1321.9	1316.2	1310.4	1304.6	1293.4
25°	1390.5	1384.2	1377.9	1371.5	1365.2	1358.9	1352.6	1346.2	1339.9	1333.6	1320.3
27.5°	1426.5	1419.4	1412.3	1405.2	1398.1	1391.0	1383.9	1376.8	1369.7	1362.6	1347.3
30°	1466.5	1458.2	1449.8	1441.5	1433.2	1424.8	1416.5	1408.2	1399.8	1391.5	1374.0
32.5°	1511.4	1502.1	1492.8	1483.4	1474.1	1464.8	1455.5	1446.1	1436.8	1427.5	1406.9
35°	1564.4	1553.0	1541.5	1530.1	1518.7	1507.2	1495.8	1484.4	1472.9	1461.5	1438.3
37.5°	1625.3	1612.2	1599.1	1586.0	1572.9	1559.8	1546.7	1533.6	1520.5	1507.4	1480.9
40°	1695.2	1680.2	1665.2	1650.3	1635.3	1620.3	1605.3	1590.4	1575.4	1560.4	1529.7
42.5°	1777.1	1759.9	1742.7	1725.5	1708.3	1691.1	1673.9	1656.7	1639.5	1622.3	1586.7
45°	1870.0	1851.1	1832.3	1813.4	1794.5	1775.7	1756.8	1737.9	1719.1	1700.2	1658.5
47.5°	1973.9	1952.0	1930.2	1908.3	1886.4	1864.6	1842.7	1820.8	1799.0	1777.1	1729.8
50°	2100.8	2075.6	2050.4	2025.2	2000.0	1974.8	1949.6	1924.4	1899.2	1874.0	1819.5
52.5°	2227.7	2199.9	2172.2	2144.4	2116.7	2088.9	2061.2	2033.4	2005.7	1977.9	1916.1
55°	2348.5	2319.8	2291.0	2262.3	2233.5	2204.8	2176.0	2147.3	2118.5	2089.8	2020.7
57.5°	2479.4	2449.4	2419.5	2389.5	2359.5	2329.6	2299.6	2269.6	2239.7	2209.7	2133.0
60°	2607.3	2576.0	2544.7	2513.4	2482.1	2450.8	2419.5	2388.2	2356.9	2325.6	2242.2
62.5°	2709.2	2678.2	2647.3	2616.3	2585.3	2554.4	2523.4	2492.4	2461.5	2430.5	2341.9
65°	2783.1	2753.8	2724.5	2695.2	2665.9	2636.6	2607.3	2578.0	2548.7	2519.4	2426.7
67.5°	2833.0	2804.8	2776.6	2748.4	2720.2	2692.1	2663.9	2635.7	2607.5	2579.3	2484.7
70°	2846.0	2819.3	2792.5	2765.8	2739.0	2712.3	2685.5	2658.8	2632.0	2605.3	2510.7
72.5°	2818.1	2792.5	2766.8	2741.2	2715.5	2689.9	2664.2	2638.6	2612.9	2587.3	2495.0
75°	2741.1	2716.9	2692.7	2668.5	2644.3	2620.2	2596.0	2571.8	2547.6	2523.4	2435.2
77.5°	2625.3	2602.2	2579.1	2556.0	2532.9	2509.9	2486.8	2463.7	2440.6	2417.5	2334.7
80°	2472.4	2450.5	2428.7	2406.8	2384.9	2363.1	2341.2	2319.3	2297.5	2275.6	2199.2
82.5°	2291.6	2271.4	2251.2	2231.0	2210.8	2190.6	2170.4	2150.2	2130.0	2109.8	2040.2
85°	2101.8	2082.8	2063.8	2044.9	2025.9	2006.9	1987.9	1969.0	1950.0	1931.0	1868.6
87.5°	1914.0	1896.2	1878.5	1860.7	1843.0	1825.2	1807.5	1789.7	1772.0	1754.2	1698.1
90°	1743.2	1726.7	1710.1	1693.6	1677.0	1660.5	1643.9	1627.4	1610.8	1594.3	1543.8
92.5°	1600.3	1584.8	1569.2	1553.7	1538.2	1522.6	1507.1	1491.6	1476.0	1460.5	1414.3
95°	1480.5	1465.7	1451.0	1436.2	1421.4	1406.7	1391.9	1377.1	1362.4	1347.6	1304.8
97.5°	1382.6	1368.3	1354.0	1339.6	1325.3	1311.0	1296.7	1282.3	1268.0	1253.7	1213.0
100°	1302.6	1288.5	1274.4	1260.3	1246.2	1232.2	1218.1	1204.0	1189.9	1175.8	1136.5
102.5°	1237.7	1224.4	1211.1	1197.7	1184.4	1171.1	1157.8	1144.4	1131.1	1117.8	1078.5
105°	1181.8	1167.8	1153.8	1139.8	1125.8	1111.9	1097.9	1083.9	1069.9	1055.9	1018.3
107.5°	1130.8	1116.8	1102.8	1088.9	1074.9	1060.9	1046.9	1033.0	1019.0	1005.0	968.1
110°	1081.9	1067.9	1053.9	1039.9	1025.9	1012.0	998.0	984.0	970.0	956.0	919.9



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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°	1031.9	1017.9	1003.9	990.0	976.0	962.0	948.0	934.1	920.1	906.1	871.1
115°	979.0	965.2	951.5	937.7	923.9	910.2	896.4	882.6	868.9	855.1	821.8
117.5°	924.0	910.9	897.8	884.7	871.6	858.6	845.5	832.4	819.3	806.2	774.3
120°	872.1	859.8	847.5	835.1	822.8	810.5	798.2	785.8	773.5	761.2	730.1
122.5°	823.1	811.1	799.1	787.2	775.2	763.2	751.2	739.3	727.3	715.3	684.8
125°	769.2	757.4	745.7	733.9	722.1	710.4	698.6	686.8	675.1	663.3	634.2
127.5°	708.3	696.9	685.4	674.0	662.6	651.1	639.7	628.3	616.8	605.4	579.0
130°	638.3	627.9	617.4	607.0	596.6	586.1	575.7	565.3	554.8	544.4	521.0
132.5°	569.4	560.6	551.9	543.1	534.3	525.6	516.8	508.0	499.3	490.5	469.4
135°	509.5	501.9	494.4	486.8	479.3	471.7	464.2	456.6	449.1	441.5	422.2
137.5°	454.5	447.6	440.7	433.9	427.0	420.1	413.2	406.4	399.5	392.6	374.8
140°	400.6	394.4	388.2	381.9	375.7	369.5	363.3	357.0	350.8	344.6	328.6
142.5°	347.6	342.3	337.0	331.6	326.3	321.0	315.7	310.3	305.0	299.7	285.5
145°	299.7	295.0	290.4	285.7	281.0	276.4	271.7	267.0	262.4	257.7	245.2
147.5°	253.7	249.5	245.3	241.1	236.9	232.6	228.4	224.2	220.0	215.8	205.1
150°	208.8	205.5	202.1	198.8	195.5	192.1	188.8	185.5	182.1	178.8	169.6
152.5°	169.8	166.9	164.0	161.1	158.2	155.4	152.5	149.6	146.7	143.8	135.9
155°	133.9	131.5	129.0	126.6	124.1	121.7	119.2	116.8	114.3	111.9	105.0
157.5°	99.9	97.9	95.9	93.9	91.9	89.9	87.9	85.9	83.9	81.9	76.4
160°	68.9	67.2	65.6	63.9	62.2	60.6	58.9	57.2	55.6	53.9	49.9
162.5°	41.0	39.8	38.6	37.3	36.1	34.9	33.7	32.4	31.2	30.0	27.8
165°	21.0	20.3	19.7	19.0	18.3	17.7	17.0	16.3	15.7	15.0	13.8
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



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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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1128.9	1129.5	1130.0	1130.6	1131.1	1131.7	1132.2	1132.8	1130.8	1128.8	1126.8
5°	1150.6	1150.5	1150.4	1150.2	1150.1	1150.0	1149.9	1149.8	1146.6	1143.4	1140.1
7.5°	1169.8	1168.8	1167.8	1166.8	1165.8	1164.8	1163.8	1162.8	1158.5	1154.1	1149.8
10°	1185.5	1183.8	1182.1	1180.5	1178.8	1177.1	1175.5	1173.8	1168.0	1162.2	1156.5
12.5°	1203.2	1200.4	1197.6	1194.9	1192.1	1189.3	1186.6	1183.8	1176.4	1168.9	1161.5
15°	1221.1	1216.7	1212.4	1208.1	1203.8	1199.4	1195.1	1190.8	1181.8	1172.8	1163.8
17.5°	1239.8	1233.4	1227.0	1220.5	1214.1	1207.7	1201.2	1194.8	1184.3	1173.7	1163.2
20°	1260.9	1252.0	1243.1	1234.3	1225.4	1216.5	1207.6	1198.7	1186.2	1173.6	1161.1
22.5°	1282.2	1271.0	1259.8	1248.5	1237.3	1226.1	1214.9	1203.7	1188.7	1173.7	1158.8
25°	1307.0	1293.6	1280.3	1267.0	1253.7	1240.3	1227.0	1213.7	1195.6	1177.5	1159.4
27.5°	1332.0	1316.6	1301.3	1286.0	1270.7	1255.3	1240.0	1224.7	1203.1	1181.4	1159.8
30°	1356.4	1338.9	1321.4	1303.8	1286.3	1268.8	1251.2	1233.7	1208.5	1183.3	1158.1
32.5°	1386.2	1365.6	1344.9	1324.3	1303.6	1283.0	1262.3	1241.7	1213.1	1184.4	1155.8
35°	1415.1	1391.9	1368.7	1345.5	1322.3	1299.1	1275.9	1252.7	1220.3	1187.9	1155.5
37.5°	1454.4	1427.8	1401.3	1374.8	1348.3	1321.7	1295.2	1268.7	1232.3	1195.9	1159.5
40°	1498.9	1468.2	1437.4	1406.7	1375.9	1345.2	1314.4	1283.7	1243.6	1203.5	1163.5
42.5°	1551.0	1515.4	1479.8	1444.1	1408.5	1372.9	1337.2	1301.6	1257.4	1213.3	1169.1
45°	1616.7	1575.0	1533.3	1491.5	1449.8	1408.1	1366.3	1324.6	1275.9	1227.2	1178.4
47.5°	1682.5	1635.3	1588.0	1540.7	1493.4	1446.2	1398.9	1351.6	1297.8	1243.9	1190.1
50°	1765.0	1710.5	1656.0	1601.6	1547.1	1492.6	1438.1	1383.6	1324.3	1265.0	1205.8
52.5°	1854.3	1792.4	1730.6	1668.8	1607.0	1545.1	1483.3	1421.5	1356.2	1291.0	1225.7
55°	1951.5	1882.4	1813.2	1744.1	1674.9	1605.8	1536.6	1467.5	1395.6	1323.6	1251.7
57.5°	2056.3	1979.6	1902.9	1826.2	1749.5	1672.8	1596.1	1519.4	1440.2	1360.9	1281.7
60°	2158.9	2075.5	1992.2	1908.8	1825.5	1742.1	1658.8	1575.4	1488.7	1402.0	1315.3
62.5°	2253.3	2164.8	2076.2	1987.6	1899.0	1810.5	1721.9	1633.3	1539.1	1444.8	1350.6
65°	2334.0	2241.3	2148.6	2056.0	1963.3	1870.6	1777.9	1685.2	1583.9	1482.5	1381.2
67.5°	2390.2	2295.6	2201.0	2106.5	2011.9	1917.3	1822.8	1728.2	1620.5	1512.9	1405.2
70°	2416.2	2321.6	2227.0	2132.5	2037.9	1943.3	1848.8	1754.2	1641.8	1529.3	1416.9
72.5°	2402.6	2310.3	2217.9	2125.6	2033.2	1940.9	1848.5	1756.2	1641.3	1526.4	1411.5
75°	2346.9	2258.7	2170.4	2082.2	1993.9	1905.7	1817.4	1729.2	1614.4	1499.7	1384.9
77.5°	2251.9	2169.1	2086.3	2003.5	1920.7	1837.9	1755.1	1672.3	1560.5	1448.7	1337.0
80°	2122.9	2046.5	1970.1	1893.8	1817.4	1741.0	1664.7	1588.3	1482.0	1375.6	1269.3
82.5°	1970.6	1901.0	1831.4	1761.9	1692.3	1622.7	1553.1	1483.5	1384.5	1285.5	1186.5
85°	1806.2	1743.9	1681.5	1619.1	1556.7	1494.4	1432.0	1369.6	1278.8	1188.0	1097.2
87.5°	1642.1	1586.0	1530.0	1473.9	1417.9	1361.8	1305.8	1249.7	1167.5	1085.2	1003.0
90°	1493.3	1442.8	1392.3	1341.8	1291.3	1240.8	1190.3	1139.8	1065.0	990.2	915.4
92.5°	1368.1	1322.0	1275.8	1229.6	1183.4	1137.3	1091.1	1044.9	976.9	908.8	840.8
95°	1261.9	1219.1	1176.2	1133.4	1090.5	1047.7	1004.8	962.0	899.6	837.2	774.9
97.5°	1172.2	1131.5	1090.8	1050.0	1009.3	968.6	927.8	887.1	829.5	771.9	714.3
100°	1097.2	1057.9	1018.6	979.3	940.0	900.7	861.4	822.1	768.4	714.7	660.9
102.5°	1039.2	999.9	960.6	921.4	882.1	842.8	803.5	764.2	713.6	663.0	612.4
105°	980.7	943.0	905.4	867.8	830.2	792.5	754.9	717.3	668.8	620.3	571.8
107.5°	931.3	894.4	857.6	820.7	783.9	747.0	710.2	673.3	626.9	580.5	534.1
110°	883.8	847.8	811.7	775.6	739.5	703.5	667.4	631.3	586.7	542.1	497.5



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	836.2	801.2	766.2	731.3	696.3	661.3	626.4	591.4	548.7	505.9	463.2
115°	788.5	755.2	721.9	688.6	655.3	622.0	588.7	555.4	514.7	473.9	433.2
117.5°	742.5	710.6	678.8	646.9	615.1	583.2	551.4	519.5	480.8	442.0	403.3
120°	699.0	668.0	636.9	605.8	574.7	543.7	512.6	481.5	445.1	408.7	372.3
122.5°	654.2	623.7	593.2	562.6	532.1	501.6	471.0	440.5	407.0	373.5	340.0
125°	605.1	576.1	547.0	517.9	488.8	459.8	430.7	401.6	370.6	339.7	308.7
127.5°	552.6	526.1	499.7	473.3	446.9	420.4	394.0	367.6	338.9	310.1	281.4
130°	497.6	474.2	450.8	427.3	403.9	380.5	357.1	333.7	307.2	280.6	254.1
132.5°	448.3	427.2	406.1	385.1	364.0	342.9	321.8	300.7	276.3	251.9	227.4
135°	402.9	383.6	364.3	344.9	325.6	306.3	287.0	267.7	245.5	223.3	201.1
137.5°	357.1	339.3	321.6	303.8	286.1	268.3	250.6	232.8	212.9	193.0	173.2
140°	312.6	296.7	280.7	264.7	248.7	232.8	216.8	200.8	183.0	165.3	147.5
142.5°	271.3	257.1	242.9	228.6	214.4	200.2	186.0	171.8	156.2	140.5	124.9
145°	232.6	220.1	207.5	195.0	182.4	169.9	157.3	144.8	131.2	117.5	103.9
147.5°	194.5	183.8	173.2	162.5	151.9	141.2	130.6	119.9	108.2	96.6	84.9
150°	160.4	151.2	142.0	132.7	123.5	114.3	105.1	95.9	86.4	76.8	67.3
152.5°	128.0	120.2	112.3	104.4	96.5	88.7	80.8	72.9	65.5	58.0	50.6
155°	98.1	91.2	84.3	77.5	70.6	63.7	56.8	49.9	44.8	39.7	34.6
157.5°	70.8	65.3	59.7	54.2	48.6	43.1	37.5	32.0	28.7	25.3	22.0
160°	45.9	41.9	37.9	34.0	30.0	26.0	22.0	18.0	16.0	14.0	12.0
162.5°	25.6	23.3	21.1	18.9	16.7	14.4	12.2	10.0	8.9	7.8	6.7
165°	12.6	11.3	10.1	8.9	7.7	6.4	5.2	4.0	3.6	3.1	2.7
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: P201349

CATALOG NUMBER: 4LBLELD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1124.8	1122.8	1120.8	1118.8	1116.8	1114.8	1115.7	1116.6	1117.5	1118.4	1119.2
5°	1136.9	1133.7	1130.5	1127.2	1124.0	1120.8	1120.5	1120.1	1119.8	1119.5	1119.1
7.5°	1145.5	1141.1	1136.8	1132.5	1128.1	1123.8	1122.1	1120.5	1118.8	1117.1	1115.5
10°	1150.7	1144.9	1139.1	1133.4	1127.6	1121.8	1118.9	1116.0	1113.2	1110.3	1107.4
12.5°	1154.0	1146.6	1139.1	1131.7	1124.2	1116.8	1112.6	1108.4	1104.2	1100.0	1095.7
15°	1154.8	1145.8	1136.8	1127.8	1118.8	1109.8	1104.0	1098.3	1092.5	1086.7	1081.0
17.5°	1152.6	1142.1	1131.5	1121.0	1110.4	1099.9	1092.7	1085.5	1078.2	1071.0	1063.8
20°	1148.6	1136.0	1123.5	1111.0	1098.4	1085.9	1077.3	1068.8	1060.2	1051.7	1043.1
22.5°	1143.8	1128.8	1113.8	1098.9	1083.9	1068.9	1058.8	1048.7	1038.6	1028.5	1018.4
25°	1141.3	1123.3	1105.2	1087.1	1069.0	1050.9	1039.1	1027.4	1015.6	1003.8	992.1
27.5°	1138.1	1116.5	1094.8	1073.2	1051.5	1029.9	1016.5	1003.1	989.6	976.2	962.8
30°	1132.9	1107.7	1082.5	1057.3	1032.1	1006.9	991.7	976.5	961.3	946.1	930.9
32.5°	1127.2	1098.5	1069.9	1041.3	1012.6	984.0	966.8	949.6	932.4	915.2	897.9
35°	1123.1	1090.6	1058.2	1025.8	993.4	961.0	941.7	922.4	903.1	883.8	864.4
37.5°	1123.1	1086.6	1050.2	1013.8	977.4	941.0	919.1	897.3	875.4	853.5	831.7
40°	1123.4	1083.3	1043.2	1003.2	963.1	923.0	898.1	873.3	848.4	823.6	798.7
42.5°	1124.9	1080.8	1036.6	992.4	948.3	904.1	876.3	848.6	820.8	793.1	765.3
45°	1129.7	1081.0	1032.3	983.5	934.8	886.1	855.2	824.4	793.5	762.7	731.8
47.5°	1136.3	1082.4	1028.6	974.8	920.9	867.1	833.4	799.6	765.9	732.1	698.4
50°	1146.5	1087.2	1027.9	968.7	909.4	850.1	813.3	776.4	739.6	702.7	665.9
52.5°	1160.4	1095.2	1029.9	964.6	899.4	834.1	794.0	754.0	713.9	673.8	633.8
55°	1179.8	1107.8	1035.9	964.0	892.0	820.1	776.8	733.5	690.3	647.0	603.7
57.5°	1202.4	1123.2	1043.9	964.7	885.4	806.2	759.8	713.4	667.0	620.6	574.2
60°	1228.6	1142.0	1055.3	968.6	881.9	795.2	745.5	695.7	646.0	596.3	546.5
62.5°	1256.4	1162.1	1067.9	973.7	879.4	785.2	732.4	679.5	626.7	573.9	521.0
65°	1279.9	1178.5	1077.2	975.9	874.5	773.2	717.5	661.8	606.0	550.3	494.6
67.5°	1297.5	1189.9	1082.2	974.5	866.9	759.2	700.9	642.7	584.4	526.1	467.9
70°	1304.4	1192.0	1079.5	967.1	854.6	742.2	681.6	621.0	560.4	499.8	439.2
72.5°	1296.6	1181.8	1066.9	952.0	837.1	722.2	660.5	598.8	537.1	475.4	413.6
75°	1270.1	1155.4	1040.6	925.8	811.1	696.3	633.9	571.5	509.2	446.8	384.4
77.5°	1225.2	1113.4	1001.6	889.9	778.1	666.3	604.0	541.8	479.5	417.2	355.0
80°	1163.0	1056.6	950.3	844.0	737.6	631.3	569.9	508.5	447.2	385.8	324.4
82.5°	1087.5	988.4	889.4	790.4	691.4	592.4	532.5	472.5	412.6	352.6	292.7
85°	1006.4	915.6	824.8	734.0	643.2	552.4	494.6	436.8	378.9	321.1	263.3
87.5°	920.7	838.5	756.2	674.0	591.7	509.5	454.2	398.9	343.7	288.4	233.1
90°	840.6	765.7	690.9	616.1	541.3	466.5	414.7	362.8	311.0	259.2	207.3
92.5°	772.7	704.7	636.6	568.6	500.5	432.5	384.4	336.4	288.3	240.3	192.2
95°	712.5	650.1	587.7	525.4	463.0	400.6	356.1	311.6	267.1	222.6	178.0
97.5°	656.7	599.0	541.4	483.8	426.2	368.6	327.6	286.7	245.7	204.8	163.8
100°	607.2	553.5	499.8	446.0	392.3	338.6	301.0	263.4	225.7	188.1	150.5
102.5°	561.8	511.1	460.5	409.9	359.3	308.7	274.4	240.1	205.8	171.5	137.2
105°	523.3	474.7	426.2	377.7	329.2	280.7	249.5	218.3	187.1	155.9	124.8
107.5°	487.7	441.3	394.9	348.5	302.1	255.7	227.3	198.9	170.5	142.1	113.6
110°	452.9	408.2	363.6	319.0	274.4	229.8	204.3	178.7	153.2	127.7	102.1



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	420.5	377.7	335.0	292.3	249.5	206.8	183.8	160.8	137.9	114.9	91.9
115°	392.5	351.7	311.0	270.3	229.5	188.8	167.8	146.8	125.9	104.9	83.9
117.5°	364.5	325.8	287.0	248.3	209.5	170.8	151.8	132.8	113.9	94.9	75.9
120°	335.9	299.4	263.0	226.6	190.2	153.8	136.7	119.6	102.5	85.4	68.4
122.5°	306.5	272.9	239.4	205.9	172.4	138.9	123.5	108.0	92.6	77.2	61.7
125°	277.7	246.8	215.8	184.8	153.9	122.9	109.2	95.6	81.9	68.3	54.6
127.5°	252.6	223.9	195.1	166.4	137.6	108.9	96.8	84.7	72.6	60.5	48.4
130°	227.6	201.0	174.5	148.0	121.4	94.9	84.4	73.8	63.3	52.7	42.2
132.5°	203.0	178.6	154.2	129.7	105.3	80.9	71.9	62.9	53.9	44.9	36.0
135°	178.9	156.7	134.5	112.3	90.1	67.9	60.4	52.8	45.3	37.7	30.2
137.5°	153.3	133.4	113.5	93.7	73.8	53.9	47.9	41.9	35.9	29.9	24.0
140°	129.8	112.0	94.3	76.5	58.8	41.0	36.4	31.9	27.3	22.8	18.2
142.5°	109.2	93.6	77.9	62.3	46.6	31.0	27.6	24.1	20.7	17.2	13.8
145°	90.2	76.6	62.9	49.3	35.6	22.0	19.6	17.1	14.7	12.2	9.8
147.5°	73.3	61.6	50.0	38.3	26.7	15.0	13.3	11.7	10.0	8.3	6.7
150°	57.7	48.2	38.6	29.1	19.5	10.0	8.9	7.8	6.7	5.6	4.4
152.5°	43.2	35.7	28.3	20.9	13.4	6.0	5.3	4.7	4.0	3.3	2.7
155°	29.5	24.4	19.3	14.2	9.1	4.0	3.6	3.1	2.7	2.2	1.8
157.5°	18.7	15.3	12.0	8.7	5.3	2.0	1.8	1.6	1.3	1.1	0.9
160°	10.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.6	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.2	1.8	1.3	0.9	0.4	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: P201349

CATALOG NUMBER: 4LBLELD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1120.1	1121.0	1121.9	1122.8	1120.1	1117.5	1114.8	1112.2	1109.5	1106.9	1104.2
5°	1118.8	1118.5	1118.1	1117.8	1114.3	1110.7	1107.2	1103.6	1100.1	1096.5	1093.0
7.5°	1113.8	1112.1	1110.5	1108.8	1104.4	1099.9	1095.5	1091.1	1086.6	1082.2	1077.8
10°	1104.5	1101.7	1098.8	1095.9	1090.8	1085.7	1080.6	1075.5	1070.3	1065.2	1060.1
12.5°	1091.5	1087.3	1083.1	1078.9	1073.2	1067.6	1061.9	1056.2	1050.6	1044.9	1039.2
15°	1075.2	1069.4	1063.7	1057.9	1052.0	1046.1	1040.3	1034.4	1028.5	1022.6	1016.8
17.5°	1056.6	1049.3	1042.1	1034.9	1028.7	1022.5	1016.3	1010.1	1003.8	997.6	991.4
20°	1034.6	1026.0	1017.5	1008.9	1002.5	996.0	989.6	983.2	976.7	970.3	963.9
22.5°	1008.3	998.2	988.1	978.0	971.7	965.3	959.0	952.7	946.3	940.0	933.7
25°	980.3	968.5	956.8	945.0	939.0	933.0	927.0	921.0	915.1	909.1	903.1
27.5°	949.4	935.9	922.5	909.1	903.5	898.0	892.4	886.9	881.3	875.8	870.2
30°	915.7	900.5	885.3	870.1	865.2	860.3	855.4	850.5	845.7	840.8	835.9
32.5°	880.7	863.5	846.3	829.1	825.2	821.3	817.5	813.6	809.7	805.8	802.0
35°	845.1	825.8	806.5	787.2	784.5	781.9	779.2	776.5	773.9	771.2	768.5
37.5°	809.8	787.9	766.1	744.2	743.3	742.4	741.5	740.6	739.8	738.9	738.0
40°	773.9	749.0	724.2	699.3	700.6	702.0	703.3	704.6	706.0	707.3	708.6
42.5°	737.6	709.8	682.1	654.3	658.3	662.3	666.3	670.3	674.3	678.3	682.3
45°	701.0	670.1	639.3	608.4	615.3	622.2	629.0	635.9	642.8	649.7	656.5
47.5°	664.6	630.9	597.1	563.4	573.1	582.7	592.4	602.0	611.7	621.3	631.0
50°	629.0	592.2	555.3	518.5	530.9	543.3	555.8	568.2	580.6	593.0	605.5
52.5°	593.7	553.6	513.6	473.5	488.9	504.4	519.8	535.2	550.7	566.1	581.5
55°	560.4	517.2	473.9	430.6	448.8	467.0	485.2	503.4	521.6	539.8	558.0
57.5°	527.8	481.4	435.0	388.6	409.7	430.8	451.9	473.0	494.0	515.1	536.2
60°	496.8	447.1	397.3	347.6	371.5	395.3	419.2	443.1	466.9	490.8	514.7
62.5°	468.2	415.4	362.5	309.7	336.2	362.7	389.3	415.8	442.3	468.8	495.4
65°	438.9	383.1	327.4	271.7	300.4	329.2	357.9	386.7	415.4	444.2	472.9
67.5°	409.6	351.3	293.1	234.8	265.7	296.5	327.4	358.2	389.1	419.9	450.8
70°	378.6	318.0	257.4	196.8	229.8	262.7	295.7	328.7	361.6	394.6	427.6
72.5°	351.9	290.2	228.5	166.8	200.5	234.3	268.0	301.8	335.5	369.3	403.0
75°	322.0	259.7	197.3	134.9	169.6	204.4	239.1	273.8	308.6	343.3	378.0
77.5°	292.7	230.4	168.2	105.9	140.9	175.8	210.8	245.8	280.7	315.7	350.7
80°	263.0	201.7	140.3	78.9	113.5	148.2	182.8	217.4	252.1	286.7	321.3
82.5°	232.7	172.8	112.8	52.9	87.0	121.1	155.1	189.2	223.3	257.4	291.4
85°	205.5	147.6	89.8	32.0	65.1	98.2	131.2	164.3	197.4	230.5	263.5
87.5°	177.8	122.6	67.3	12.0	43.9	75.7	107.6	139.4	171.3	203.1	235.0
90°	155.5	103.7	51.8	0.0	30.0	59.9	89.9	119.9	149.8	179.8	209.8
92.5°	144.2	96.1	48.1	0.0	27.9	55.7	83.6	111.4	139.3	167.1	195.0
95°	133.5	89.0	44.5	0.0	25.6	51.3	76.9	102.6	128.2	153.9	179.5
97.5°	122.9	81.9	41.0	0.0	23.6	47.3	70.9	94.6	118.2	141.9	165.5
100°	112.9	75.2	37.6	0.0	21.8	43.5	65.3	87.0	108.8	130.5	152.3
102.5°	102.9	68.6	34.3	0.0	20.0	40.0	59.9	79.9	99.9	119.9	139.8
105°	93.6	62.4	31.2	0.0	18.3	36.6	54.9	73.2	91.6	109.9	128.2
107.5°	85.2	56.8	28.4	0.0	16.8	33.5	50.3	67.0	83.8	100.5	117.3
110°	76.6	51.1	25.5	0.0	15.3	30.6	46.0	61.3	76.6	91.9	107.3



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	68.9	46.0	23.0	0.0	13.8	27.5	41.3	55.1	68.8	82.6	96.4
115°	62.9	42.0	21.0	0.0	12.3	24.6	37.0	49.3	61.6	73.9	86.3
117.5°	56.9	38.0	19.0	0.0	11.0	22.0	33.0	44.0	54.9	65.9	76.9
120°	51.3	34.2	17.1	0.0	9.9	19.8	29.6	39.5	49.4	59.3	69.1
122.5°	46.3	30.9	15.4	0.0	8.8	17.5	26.3	35.1	43.8	52.6	61.4
125°	41.0	27.3	13.7	0.0	7.8	15.5	23.3	31.1	38.8	46.6	54.4
127.5°	36.3	24.2	12.1	0.0	6.5	13.1	19.6	26.2	32.7	39.3	45.8
130°	31.6	21.1	10.5	0.0	5.5	11.1	16.6	22.2	27.7	33.3	38.8
132.5°	27.0	18.0	9.0	0.0	4.6	9.1	13.7	18.2	22.8	27.3	31.9
135°	22.6	15.1	7.5	0.0	3.6	7.1	10.7	14.2	17.8	21.3	24.9
137.5°	18.0	12.0	6.0	0.0	2.8	5.6	8.3	11.1	13.9	16.7	19.4
140°	13.7	9.1	4.6	0.0	1.9	3.8	5.7	7.6	9.4	11.3	13.2
142.5°	10.3	6.9	3.4	0.0	1.2	2.4	3.7	4.9	6.1	7.3	8.6
145°	7.3	4.9	2.4	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4
147.5°	5.0	3.3	1.7	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
150°	3.3	2.2	1.1	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
152.5°	2.0	1.3	0.7	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
155°	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.4	0.2	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: P201349

CATALOG NUMBER: 4LBLELD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1101.6	1098.9	1098.3	1097.8	1097.2	1096.7	1096.1	1095.6	1095.0	1094.5	1093.9
5°	1089.4	1085.9	1084.7	1083.5	1082.2	1081.0	1079.8	1078.6	1077.3	1076.1	1074.9
7.5°	1073.3	1068.9	1067.2	1065.6	1063.9	1062.2	1060.6	1058.9	1057.2	1055.6	1053.9
10°	1055.0	1049.9	1048.0	1046.1	1044.2	1042.3	1040.5	1038.6	1036.7	1034.8	1032.9
12.5°	1033.6	1027.9	1026.0	1024.1	1022.2	1020.3	1018.5	1016.6	1014.7	1012.8	1010.9
15°	1010.9	1005.0	1003.2	1001.4	999.7	997.9	996.1	994.3	992.6	990.8	989.0
17.5°	985.2	979.0	977.9	976.8	975.7	974.6	973.4	972.3	971.2	970.1	969.0
20°	957.4	951.0	950.9	950.8	950.7	950.6	950.4	950.3	950.2	950.1	950.0
22.5°	927.3	921.0	922.8	924.6	926.3	928.1	929.9	931.7	933.4	935.2	937.0
25°	897.1	891.1	895.5	900.0	904.4	908.8	913.3	917.7	922.1	926.6	931.0
27.5°	864.7	859.1	867.0	874.9	882.7	890.6	898.5	906.4	914.2	922.1	930.0
30°	831.0	826.1	837.4	848.7	860.1	871.4	882.7	894.0	905.4	916.7	928.0
32.5°	798.1	794.2	808.8	823.5	838.1	852.8	867.4	882.1	896.7	911.4	926.0
35°	765.9	763.2	781.1	798.9	816.8	834.7	852.5	870.4	888.3	906.1	924.0
37.5°	737.1	736.2	757.0	777.7	798.5	819.2	840.0	860.7	881.5	902.2	923.0
40°	710.0	711.3	735.0	758.8	782.5	806.3	830.0	853.8	877.5	901.3	925.0
42.5°	686.3	690.3	716.8	743.3	769.9	796.4	822.9	849.4	876.0	902.5	929.0
45°	663.4	670.3	699.9	729.6	759.2	788.8	818.5	848.1	877.7	907.4	937.0
47.5°	640.6	650.3	683.4	716.5	749.5	782.6	815.7	848.8	881.8	914.9	948.0
50°	617.9	630.3	667.4	704.5	741.5	778.6	815.7	852.8	889.8	926.9	964.0
52.5°	597.0	612.4	653.5	694.5	735.6	776.7	817.7	858.8	899.9	940.9	982.0
55°	576.2	594.4	640.1	685.8	731.6	777.3	823.0	868.7	914.5	960.2	1005.9
57.5°	557.3	578.4	629.0	679.6	730.2	780.8	831.5	882.1	932.7	983.3	1033.9
60°	538.5	562.4	618.3	674.3	730.2	786.2	842.1	898.1	954.0	1010.0	1065.9
62.5°	521.9	548.4	609.5	670.5	731.6	792.6	853.7	914.7	975.8	1036.8	1097.9
65°	501.7	530.4	596.7	662.9	729.2	795.5	861.7	928.0	994.3	1060.5	1126.8
67.5°	481.6	512.5	582.9	653.2	723.6	794.0	864.3	934.7	1005.1	1075.4	1145.8
70°	460.5	493.5	566.9	640.2	713.6	787.0	860.3	933.7	1007.1	1080.4	1153.8
72.5°	436.8	470.5	545.3	620.1	694.9	769.7	844.6	919.4	994.2	1069.0	1143.8
75°	412.8	447.5	521.5	595.6	669.6	743.6	817.7	891.7	965.7	1039.8	1113.8
77.5°	385.6	420.6	492.0	563.3	634.7	706.1	777.4	848.8	920.2	991.5	1062.9
80°	356.0	390.6	458.0	525.4	592.7	660.1	727.5	794.9	862.2	929.6	997.0
82.5°	325.5	359.6	422.0	484.4	546.7	609.1	671.5	733.9	796.2	858.6	921.0
85°	296.6	329.7	386.3	442.9	499.5	556.1	612.7	669.3	725.9	782.5	839.1
87.5°	266.8	298.7	349.8	400.8	451.9	502.9	554.0	605.0	656.1	707.1	758.2
90°	239.7	269.7	315.7	361.6	407.6	453.5	499.5	545.4	591.4	637.3	683.3
92.5°	222.8	250.7	292.1	333.5	374.9	416.3	457.7	499.1	540.5	581.9	623.3
95°	205.2	230.8	269.1	307.4	345.7	384.0	422.2	460.5	498.8	537.1	575.4
97.5°	189.2	212.8	248.4	284.0	319.7	355.3	390.9	426.5	462.2	497.8	533.4
100°	174.0	195.8	229.3	262.8	296.4	329.9	363.4	396.9	430.5	464.0	497.5
102.5°	159.8	179.8	211.7	243.5	275.4	307.2	339.1	370.9	402.8	434.6	466.5
105°	146.5	164.8	195.3	225.8	256.4	286.9	317.4	347.9	378.5	409.0	439.5
107.5°	134.0	150.8	180.1	209.4	238.7	268.0	297.4	326.7	356.0	385.3	414.6
110°	122.6	137.9	166.0	194.1	222.1	250.2	278.3	306.4	334.4	362.5	390.6



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	110.1	123.9	151.0	178.1	205.1	232.2	259.3	286.4	313.4	340.5	367.6
115°	98.6	110.9	136.6	162.4	188.1	213.9	239.6	265.4	291.1	316.9	342.6
117.5°	87.9	98.9	123.4	148.0	172.5	197.0	221.6	246.1	270.6	295.2	319.7
120°	79.0	88.9	111.9	134.9	157.8	180.8	203.8	226.8	249.7	272.7	295.7
122.5°	70.1	78.9	100.2	121.5	142.8	164.1	185.5	206.8	228.1	249.4	270.7
125°	62.1	69.9	89.5	109.2	128.8	148.5	168.1	187.8	207.4	227.1	246.7
127.5°	52.4	58.9	76.6	94.2	111.9	129.5	147.2	164.8	182.5	200.1	217.8
130°	44.4	49.9	65.1	80.3	95.5	110.7	126.0	141.2	156.4	171.6	186.8
132.5°	36.4	41.0	53.6	66.3	78.9	91.6	104.2	116.9	129.5	142.2	154.8
135°	28.4	32.0	43.1	54.2	65.3	76.4	87.5	98.6	109.7	120.8	131.9
137.5°	22.2	25.0	34.5	44.1	53.6	63.2	72.7	82.3	91.8	101.4	110.9
140°	15.1	17.0	25.4	33.9	42.3	50.7	59.2	67.6	76.0	84.5	92.9
142.5°	9.8	11.0	18.1	25.2	32.3	39.4	46.5	53.6	60.7	67.8	74.9
145°	6.2	7.0	12.9	18.8	24.6	30.5	36.4	42.3	48.1	54.0	59.9
147.5°	3.6	4.0	8.8	13.6	18.3	23.1	27.9	32.7	37.4	42.2	47.0
150°	2.7	3.0	6.6	10.1	13.7	17.2	20.8	24.3	27.9	31.4	35.0
152.5°	1.8	2.0	4.6	7.1	9.7	12.2	14.8	17.3	19.9	22.4	25.0
155°	0.0	0.0	1.7	3.3	5.0	6.7	8.3	10.0	11.7	13.3	15.0
157.5°	0.0	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.2	7.0
160°	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0
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: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1092.9	1091.9	1090.9	1089.9	1088.9	1087.9	1086.9	1085.9	1084.9	1083.7	1082.5
5°	1073.5	1072.0	1070.6	1069.1	1067.7	1066.2	1064.8	1063.3	1061.9	1061.3	1060.8
7.5°	1052.5	1051.0	1049.6	1048.1	1046.7	1045.2	1043.8	1042.3	1040.9	1040.5	1040.0
10°	1031.6	1030.2	1028.9	1027.6	1026.2	1024.9	1023.6	1022.2	1020.9	1020.5	1020.0
12.5°	1010.0	1009.1	1008.3	1007.4	1006.5	1005.6	1004.8	1003.9	1003.0	1002.8	1002.6
15°	988.9	988.8	988.7	988.6	988.4	988.3	988.2	988.1	988.0	988.2	988.4
17.5°	970.2	971.4	972.7	973.9	975.1	976.3	977.6	978.8	980.0	981.2	982.4
20°	953.9	957.8	961.7	965.6	969.4	973.3	977.2	981.1	985.0	987.1	989.2
22.5°	943.3	949.7	956.0	962.3	968.7	975.0	981.3	987.7	994.0	996.5	999.1
25°	939.0	947.0	955.0	963.0	971.0	979.0	987.0	995.0	1003.0	1005.9	1008.8
27.5°	939.1	948.2	957.3	966.4	975.5	984.6	993.7	1002.8	1011.9	1015.3	1018.8
30°	938.3	948.6	959.0	969.3	979.6	989.9	1000.3	1010.6	1020.9	1025.2	1029.6
32.5°	938.0	950.0	962.0	974.0	985.9	997.9	1009.9	1021.9	1033.9	1039.1	1044.3
35°	938.0	952.0	966.0	980.0	993.9	1007.9	1021.9	1035.9	1049.9	1056.1	1062.3
37.5°	939.4	955.9	972.3	988.7	1005.2	1021.6	1038.0	1054.5	1070.9	1078.4	1086.0
40°	944.1	963.2	982.3	1001.4	1020.5	1039.6	1058.7	1077.8	1096.9	1106.0	1115.1
42.5°	951.3	973.6	995.9	1018.2	1040.6	1062.9	1085.2	1107.5	1129.8	1140.5	1151.1
45°	963.1	989.2	1015.3	1041.4	1067.4	1093.5	1119.6	1145.7	1171.8	1184.1	1196.4
47.5°	978.3	1008.6	1038.9	1069.2	1099.5	1129.8	1160.1	1190.4	1220.7	1234.9	1249.1
50°	998.9	1033.7	1068.6	1103.4	1138.3	1173.1	1208.0	1242.8	1277.7	1293.9	1310.1
52.5°	1022.0	1061.9	1101.9	1141.8	1181.8	1221.7	1261.7	1301.6	1341.6	1359.8	1378.0
55°	1051.2	1096.5	1141.8	1187.1	1232.3	1277.6	1322.9	1368.2	1413.5	1433.5	1453.5
57.5°	1084.2	1134.5	1184.7	1235.0	1285.3	1335.6	1385.8	1436.1	1486.4	1507.6	1528.8
60°	1120.7	1175.6	1230.4	1285.2	1340.1	1394.9	1449.7	1504.6	1559.4	1581.0	1602.7
62.5°	1155.7	1213.5	1271.4	1329.2	1387.0	1444.8	1502.7	1560.5	1618.3	1640.7	1663.1
65°	1187.7	1248.7	1309.6	1370.6	1431.5	1492.5	1553.4	1614.4	1675.3	1696.6	1717.9
67.5°	1208.1	1270.3	1332.6	1394.9	1457.1	1519.4	1581.7	1643.9	1706.2	1726.5	1746.8
70°	1215.7	1277.7	1339.6	1401.5	1463.5	1525.4	1587.3	1649.3	1711.2	1730.4	1749.6
72.5°	1204.2	1264.6	1324.9	1385.3	1445.7	1506.1	1566.4	1626.8	1687.2	1705.3	1723.4
75°	1171.3	1228.8	1286.3	1343.8	1401.3	1458.8	1516.3	1573.8	1631.3	1647.0	1662.6
77.5°	1116.3	1169.7	1223.1	1276.5	1329.8	1383.2	1436.6	1490.0	1543.4	1557.5	1571.6
80°	1045.3	1093.6	1141.8	1190.1	1238.4	1286.7	1334.9	1383.2	1431.5	1445.6	1459.7
82.5°	964.1	1007.1	1050.2	1093.3	1136.3	1179.4	1222.5	1265.5	1308.6	1319.8	1331.0
85°	877.2	915.3	953.3	991.4	1029.5	1067.6	1105.6	1143.7	1181.8	1191.9	1202.0
87.5°	791.4	824.6	857.8	891.0	924.1	957.3	990.5	1023.7	1056.9	1066.1	1075.3
90°	712.5	741.7	770.9	800.1	829.2	858.4	887.6	916.8	946.0	954.7	963.3
92.5°	649.8	676.4	702.9	729.4	756.0	782.5	809.0	835.6	862.1	869.9	877.6
95°	599.5	623.6	647.7	671.8	695.8	719.9	744.0	768.1	792.2	799.9	807.5
97.5°	556.3	579.1	602.0	624.9	647.7	670.6	693.5	716.3	739.2	746.3	753.4
100°	519.5	541.5	563.4	585.4	607.4	629.4	651.3	673.3	695.3	702.4	709.5
102.5°	487.9	509.3	530.8	552.2	573.6	595.0	616.5	637.9	659.3	666.3	673.3
105°	460.7	481.9	503.1	524.3	545.5	566.7	587.9	609.1	630.3	637.2	644.1
107.5°	435.5	456.3	477.2	498.1	518.9	539.8	560.7	581.5	602.4	609.7	617.0
110°	411.5	432.3	453.2	474.1	494.9	515.8	536.7	557.5	578.4	585.7	593.0



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	388.5	409.3	430.2	451.1	471.9	492.8	513.7	534.5	555.4	562.8	570.3
115°	363.5	384.3	405.2	426.1	446.9	467.8	488.7	509.5	530.4	538.1	545.7
117.5°	340.2	360.8	381.3	401.8	422.4	442.9	463.4	484.0	504.5	512.3	520.0
120°	315.7	335.7	355.6	375.6	395.6	415.6	435.5	455.5	475.5	483.5	491.5
122.5°	289.9	309.1	328.3	347.5	366.7	385.9	405.1	424.3	443.5	451.5	459.5
125°	264.7	282.7	300.7	318.7	336.6	354.6	372.6	390.6	408.6	416.4	424.1
127.5°	235.0	252.2	269.4	286.6	303.8	321.0	338.2	355.4	372.6	380.4	388.1
130°	203.4	220.1	236.7	253.4	270.0	286.7	303.3	320.0	336.6	343.7	350.8
132.5°	171.0	187.2	203.4	219.6	235.9	252.1	268.3	284.5	300.7	307.2	313.8
135°	146.8	161.6	176.5	191.4	206.2	221.1	236.0	250.8	265.7	271.7	277.7
137.5°	123.2	135.5	147.9	160.2	172.5	184.8	197.2	209.5	221.8	228.3	234.9
140°	102.8	112.7	122.5	132.4	142.3	152.2	162.0	171.9	181.8	188.0	194.2
142.5°	83.4	92.0	100.5	109.1	117.6	126.2	134.7	143.3	151.8	156.9	162.0
145°	67.1	74.3	81.6	88.8	96.0	103.2	110.5	117.7	124.9	129.8	134.7
147.5°	52.9	58.8	64.6	70.5	76.4	82.3	88.1	94.0	99.9	104.7	109.5
150°	40.0	45.0	50.0	55.0	59.9	64.9	69.9	74.9	79.9	84.2	88.6
152.5°	28.9	32.8	36.6	40.5	44.4	48.3	52.1	56.0	59.9	63.9	67.9
155°	18.2	21.4	24.7	27.9	31.1	34.3	37.6	40.8	44.0	47.5	51.1
157.5°	9.6	12.1	14.7	17.2	19.8	22.3	24.9	27.4	30.0	33.1	36.2
160°	3.7	5.3	7.0	8.7	10.3	12.0	13.7	15.3	17.0	19.8	22.6
162.5°	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0	8.2	10.4
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9
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: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1081.2	1080.0	1078.8	1077.6	1076.3	1075.1	1073.9	1075.0	1076.1	1077.2	1078.3
5°	1060.2	1059.7	1059.1	1058.6	1058.0	1057.5	1056.9	1057.2	1057.6	1057.9	1058.2
7.5°	1039.6	1039.1	1038.7	1038.2	1037.8	1037.3	1036.9	1037.3	1037.8	1038.2	1038.7
10°	1019.6	1019.1	1018.7	1018.2	1017.8	1017.3	1016.9	1017.1	1017.3	1017.6	1017.8
12.5°	1002.3	1002.1	1001.9	1001.7	1001.4	1001.2	1001.0	1000.9	1000.8	1000.7	1000.6
15°	988.7	988.9	989.1	989.3	989.6	989.8	990.0	989.8	989.6	989.3	989.1
17.5°	983.7	984.9	986.1	987.3	988.6	989.8	991.0	989.9	988.8	987.7	986.6
20°	991.3	993.4	995.6	997.7	999.8	1001.9	1004.0	1001.7	999.3	997.0	994.7
22.5°	1001.6	1004.2	1006.7	1009.3	1011.8	1014.4	1016.9	1013.8	1010.7	1007.6	1004.5
25°	1011.6	1014.5	1017.4	1020.3	1023.1	1026.0	1028.9	1025.6	1022.3	1018.9	1015.6
27.5°	1022.2	1025.7	1029.1	1032.6	1036.0	1039.5	1042.9	1039.1	1035.3	1031.6	1027.8
30°	1033.9	1038.2	1042.6	1046.9	1051.2	1055.6	1059.9	1055.3	1050.8	1046.2	1041.7
32.5°	1049.6	1054.8	1060.0	1065.2	1070.5	1075.7	1080.9	1075.6	1070.2	1064.9	1059.6
35°	1068.5	1074.7	1081.0	1087.2	1093.4	1099.6	1105.8	1099.5	1093.2	1086.8	1080.5
37.5°	1093.5	1101.1	1108.6	1116.2	1123.7	1131.3	1138.8	1131.4	1123.9	1116.5	1109.1
40°	1124.2	1133.3	1142.4	1151.5	1160.6	1169.7	1178.8	1170.0	1161.3	1152.5	1143.7
42.5°	1161.8	1172.4	1183.1	1193.7	1204.4	1215.0	1225.7	1215.6	1205.5	1195.4	1185.3
45°	1208.8	1221.1	1233.4	1245.7	1258.1	1270.4	1282.7	1270.9	1259.2	1247.4	1235.6
47.5°	1263.3	1277.5	1291.8	1306.0	1320.2	1334.4	1348.6	1335.2	1321.7	1308.3	1294.9
50°	1326.3	1342.5	1358.7	1374.9	1391.1	1407.3	1423.5	1408.3	1393.1	1377.9	1362.7
52.5°	1396.2	1414.4	1432.6	1450.8	1469.0	1487.2	1505.4	1488.5	1471.7	1454.8	1437.9
55°	1473.4	1493.4	1513.4	1533.4	1553.3	1573.3	1593.3	1574.8	1556.2	1537.7	1519.2
57.5°	1550.0	1571.2	1592.4	1613.6	1634.8	1656.0	1677.2	1657.9	1638.6	1619.3	1600.0
60°	1624.3	1646.0	1667.6	1689.3	1710.9	1732.6	1754.2	1734.7	1715.1	1695.6	1676.1
62.5°	1685.6	1708.0	1730.4	1752.8	1775.3	1797.7	1820.1	1800.6	1781.0	1761.5	1742.0
65°	1739.2	1760.5	1781.9	1803.2	1824.5	1845.8	1867.1	1848.2	1829.3	1810.5	1791.6
67.5°	1767.1	1787.4	1807.8	1828.1	1848.4	1868.7	1889.0	1871.4	1853.7	1836.1	1818.4
70°	1768.8	1788.0	1807.2	1826.4	1845.6	1864.8	1884.0	1867.4	1850.7	1834.1	1817.4
72.5°	1741.5	1759.6	1777.7	1795.8	1813.9	1832.0	1850.1	1833.9	1817.7	1801.5	1785.3
75°	1678.3	1693.9	1709.6	1725.2	1740.9	1756.5	1772.2	1757.5	1742.9	1728.2	1713.6
77.5°	1585.7	1599.8	1613.9	1628.0	1642.1	1656.2	1670.3	1657.0	1643.7	1630.3	1617.0
80°	1473.8	1487.9	1502.0	1516.1	1530.2	1544.3	1558.4	1544.6	1530.9	1517.1	1503.3
82.5°	1342.2	1353.4	1364.7	1375.9	1387.1	1398.3	1409.5	1398.1	1386.6	1375.2	1363.8
85°	1212.1	1222.2	1232.3	1242.4	1252.5	1262.6	1272.7	1262.2	1251.6	1241.1	1230.5
87.5°	1084.5	1093.7	1103.0	1112.2	1121.4	1130.6	1139.8	1129.9	1120.0	1110.2	1100.3
90°	972.0	980.6	989.3	997.9	1006.6	1015.2	1023.9	1014.8	1005.7	996.6	987.5
92.5°	885.4	893.2	900.9	908.7	916.5	924.2	932.0	923.7	915.4	907.0	898.7
95°	815.2	822.8	830.5	838.1	845.8	853.4	861.1	853.4	845.8	838.1	830.5
97.5°	760.5	767.6	774.8	781.9	789.0	796.1	803.2	796.0	788.8	781.5	774.3
100°	716.6	723.7	730.8	737.9	745.0	752.1	759.2	752.1	745.0	737.9	730.8
102.5°	680.3	687.3	694.2	701.2	708.2	715.2	722.2	715.7	709.1	702.6	696.0
105°	651.0	657.9	664.7	671.6	678.5	685.4	692.3	685.7	679.2	672.6	666.1
107.5°	624.4	631.7	639.0	646.3	653.7	661.0	668.3	661.6	655.0	648.3	641.7
110°	600.4	607.7	615.0	622.3	629.7	637.0	644.3	637.6	631.0	624.3	617.7



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	577.7	585.2	592.6	600.1	607.5	615.0	622.4	615.5	608.6	601.7	594.8
115°	553.4	561.1	568.7	576.4	584.1	591.7	599.4	592.5	585.6	578.7	571.8
117.5°	527.8	535.6	543.3	551.1	558.9	566.6	574.4	567.4	560.4	553.4	546.4
120°	499.5	507.5	515.4	523.4	531.4	539.4	547.4	540.3	533.2	526.1	519.0
122.5°	467.5	475.5	483.5	491.5	499.5	507.5	515.5	508.4	501.3	494.2	487.1
125°	431.9	439.7	447.4	455.2	463.0	470.7	478.5	471.7	465.0	458.2	451.4
127.5°	395.9	403.7	411.4	419.2	427.0	434.7	442.5	435.7	429.0	422.2	415.4
130°	357.9	365.0	372.2	379.3	386.4	393.5	400.6	394.4	388.2	381.9	375.7
132.5°	320.3	326.9	333.4	340.0	346.5	353.1	359.6	353.9	348.3	342.6	337.0
135°	283.7	289.7	295.7	301.7	307.7	313.7	319.7	314.7	309.7	304.7	299.7
137.5°	241.4	248.0	254.5	261.1	267.6	274.2	280.7	275.8	270.9	266.1	261.2
140°	200.5	206.7	212.9	219.1	225.4	231.6	237.8	233.4	228.9	224.5	220.0
142.5°	167.1	172.2	177.4	182.5	187.6	192.7	197.8	194.9	192.0	189.1	186.2
145°	139.5	144.4	149.3	154.2	159.0	163.9	168.8	166.4	163.9	161.5	159.0
147.5°	114.2	119.0	123.8	128.6	133.3	138.1	142.9	140.9	138.9	136.9	134.9
150°	92.9	97.2	101.6	105.9	110.2	114.6	118.9	117.2	115.6	113.9	112.2
152.5°	71.9	75.9	79.9	83.9	87.9	91.9	95.9	94.6	93.2	91.9	90.6
155°	54.6	58.2	61.7	65.3	68.8	72.4	75.9	74.9	73.9	72.9	71.9
157.5°	39.3	42.4	45.5	48.6	51.7	54.8	57.9	57.1	56.3	55.6	54.8
160°	25.3	28.1	30.9	33.7	36.4	39.2	42.0	41.3	40.7	40.0	39.3
162.5°	12.7	14.9	17.1	19.3	21.6	23.8	26.0	25.6	25.1	24.7	24.2
165°	4.3	5.8	7.2	8.7	10.1	11.6	13.0	13.0	13.0	13.0	13.0
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: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1079.5	1080.6	1081.7	1082.8	1083.9	1085.6	1087.2	1088.9	1090.6	1092.2	1093.9
5°	1058.6	1058.9	1059.2	1059.6	1059.9	1062.0	1064.1	1066.2	1068.3	1070.5	1072.6
7.5°	1039.1	1039.6	1040.0	1040.5	1040.9	1043.0	1045.1	1047.2	1049.3	1051.5	1053.6
10°	1018.0	1018.2	1018.5	1018.7	1018.9	1021.2	1023.6	1025.9	1028.2	1030.6	1032.9
12.5°	1000.4	1000.3	1000.2	1000.1	1000.0	1002.2	1004.4	1006.6	1008.8	1011.1	1013.3
15°	988.9	988.7	988.4	988.2	988.0	989.1	990.2	991.3	992.4	993.6	994.7
17.5°	985.4	984.3	983.2	982.1	981.0	980.7	980.3	980.0	979.7	979.3	979.0
20°	992.3	990.0	987.7	985.3	983.0	980.3	977.7	975.0	972.3	969.7	967.0
22.5°	1001.4	998.3	995.2	992.1	989.0	984.0	979.0	974.0	969.0	964.0	959.0
25°	1012.3	1009.0	1005.6	1002.3	999.0	992.2	985.4	978.7	971.9	965.1	958.3
27.5°	1024.0	1020.2	1016.5	1012.7	1008.9	1000.8	992.7	984.6	976.5	968.4	960.3
30°	1037.1	1032.6	1028.0	1023.5	1018.9	1009.4	999.8	990.3	980.7	971.2	961.6
32.5°	1054.2	1048.9	1043.6	1038.2	1032.9	1021.5	1010.0	998.6	987.2	975.7	964.3
35°	1074.2	1067.9	1061.5	1055.2	1048.9	1035.6	1022.3	1008.9	995.6	982.3	969.0
37.5°	1101.6	1094.2	1086.8	1079.3	1071.9	1056.2	1040.6	1024.9	1009.3	993.6	978.0
40°	1135.0	1126.2	1117.4	1108.7	1099.9	1081.5	1063.0	1044.6	1026.2	1007.7	989.3
42.5°	1175.2	1165.1	1155.0	1144.9	1134.8	1113.2	1091.5	1069.9	1048.2	1026.6	1004.9
45°	1223.9	1212.1	1200.3	1188.6	1176.8	1151.6	1126.4	1101.2	1076.0	1050.8	1025.6
47.5°	1281.4	1268.0	1254.6	1241.1	1227.7	1198.3	1168.9	1139.5	1110.1	1080.6	1051.2
50°	1347.5	1332.3	1317.1	1301.9	1286.7	1252.6	1218.5	1184.5	1150.4	1116.3	1082.2
52.5°	1421.1	1404.2	1387.3	1370.5	1353.6	1314.5	1275.5	1236.4	1197.3	1158.3	1119.2
55°	1500.6	1482.1	1463.6	1445.0	1426.5	1382.4	1338.4	1294.3	1250.2	1206.2	1162.1
57.5°	1580.6	1561.3	1542.0	1522.7	1503.4	1454.3	1405.3	1356.2	1307.2	1258.1	1209.1
60°	1656.5	1637.0	1617.5	1597.9	1578.4	1524.6	1470.7	1416.9	1363.1	1309.2	1255.4
62.5°	1722.4	1702.9	1683.4	1663.8	1644.3	1587.1	1530.0	1472.8	1415.6	1358.5	1301.3
65°	1772.7	1753.8	1735.0	1716.1	1697.2	1637.6	1578.0	1518.4	1458.8	1399.2	1339.6
67.5°	1800.8	1783.1	1765.5	1747.8	1730.2	1669.3	1608.3	1547.4	1486.5	1425.5	1364.6
70°	1800.8	1784.1	1767.5	1750.8	1734.2	1673.6	1613.0	1552.4	1491.8	1431.2	1370.6
72.5°	1769.0	1752.8	1736.6	1720.4	1704.2	1645.5	1586.8	1528.1	1469.4	1410.6	1351.9
75°	1698.9	1684.3	1669.6	1655.0	1640.3	1584.8	1529.3	1473.8	1418.3	1362.8	1307.3
77.5°	1603.7	1590.4	1577.0	1563.7	1550.4	1498.9	1447.4	1395.9	1344.4	1292.9	1241.4
80°	1489.6	1475.8	1462.0	1448.3	1434.5	1387.8	1341.0	1294.3	1247.6	1200.8	1154.1
82.5°	1352.3	1340.9	1329.5	1318.0	1306.6	1265.6	1224.7	1183.7	1142.8	1101.8	1060.9
85°	1220.0	1209.4	1198.9	1188.3	1177.8	1141.6	1105.4	1069.2	1033.0	996.9	960.7
87.5°	1090.4	1080.5	1070.7	1060.8	1050.9	1019.4	987.9	956.3	924.8	893.3	861.8
90°	978.4	969.3	960.2	951.1	942.0	914.1	886.3	858.4	830.6	802.7	774.9
92.5°	890.4	882.1	873.7	865.4	857.1	832.2	807.4	782.5	757.6	732.8	707.9
95°	822.8	815.2	807.5	799.9	792.2	769.1	746.0	722.9	699.8	676.8	653.7
97.5°	767.1	759.9	752.6	745.4	738.2	716.4	694.7	672.9	651.2	629.4	607.7
100°	723.7	716.6	709.5	702.4	695.3	674.3	653.3	632.4	611.4	590.4	569.4
102.5°	689.5	682.9	676.4	669.8	663.3	642.4	621.6	600.7	579.8	559.0	538.1
105°	659.5	653.0	646.4	639.9	633.3	612.9	592.5	572.0	551.6	531.2	510.8
107.5°	635.0	628.4	621.7	615.1	608.4	588.1	567.8	547.5	527.2	506.8	486.5
110°	611.0	604.4	597.7	591.1	584.4	564.2	544.0	523.8	503.6	483.4	463.2



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	588.0	581.1	574.2	567.3	560.4	540.3	520.2	500.1	480.0	460.0	439.9
115°	565.0	558.1	551.2	544.3	537.4	517.3	497.2	477.1	457.0	437.0	416.9
117.5°	539.5	532.5	525.5	518.5	511.5	491.6	471.8	451.9	432.0	412.2	392.3
120°	511.9	504.8	497.7	490.6	483.5	464.0	444.4	424.9	405.4	385.8	366.3
122.5°	479.9	472.8	465.7	458.6	451.5	432.7	414.0	395.2	376.5	357.7	339.0
125°	444.7	437.9	431.1	424.4	417.6	399.8	382.1	364.3	346.5	328.8	311.0
127.5°	408.7	401.9	395.1	388.4	381.6	364.8	348.1	331.3	314.6	297.8	281.1
130°	369.5	363.3	357.0	350.8	344.6	329.1	313.5	298.0	282.5	266.9	251.4
132.5°	331.3	325.7	320.0	314.4	308.7	294.2	279.6	265.1	250.5	236.0	221.4
135°	294.7	289.7	284.7	279.7	274.7	261.7	248.7	235.7	222.7	209.8	196.8
137.5°	256.3	251.4	246.6	241.7	236.8	226.0	215.3	204.5	193.7	183.0	172.2
140°	215.6	211.1	206.7	202.2	197.8	189.4	180.9	172.5	164.1	155.6	147.2
142.5°	183.4	180.5	177.6	174.7	171.8	164.4	156.9	149.5	142.1	134.6	127.2
145°	156.6	154.1	151.7	149.2	146.8	140.4	133.9	127.5	121.1	114.6	108.2
147.5°	132.9	130.9	128.9	126.9	124.9	119.3	113.8	108.2	102.7	97.1	91.6
150°	110.6	108.9	107.2	105.6	103.9	99.2	94.6	89.9	85.2	80.6	75.9
152.5°	89.2	87.9	86.6	85.2	83.9	80.0	76.1	72.2	68.3	64.5	60.6
155°	70.9	69.9	68.9	67.9	66.9	63.6	60.3	56.9	53.6	50.3	47.0
157.5°	54.0	53.2	52.5	51.7	50.9	48.1	45.4	42.6	39.8	37.1	34.3
160°	38.7	38.0	37.3	36.7	36.0	33.9	31.8	29.7	27.6	25.4	23.3
162.5°	23.8	23.3	22.9	22.4	22.0	20.9	19.8	18.7	17.6	16.4	15.3
165°	13.0	13.0	13.0	13.0	13.0	12.4	11.9	11.3	10.8	10.2	9.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLEDD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1095.6	1097.2	1098.9	1099.0	1099.1	1099.2	1099.3	1099.5	1099.6	1099.7	1099.8
5°	1074.7	1076.8	1078.9	1079.7	1080.5	1081.2	1082.0	1082.8	1083.6	1084.3	1085.1
7.5°	1055.7	1057.8	1059.9	1060.9	1061.9	1062.9	1063.9	1064.9	1065.9	1066.9	1067.9
10°	1035.2	1037.6	1039.9	1040.8	1041.7	1042.6	1043.5	1044.3	1045.2	1046.1	1047.0
12.5°	1015.5	1017.7	1019.9	1020.7	1021.5	1022.2	1023.0	1023.8	1024.6	1025.3	1026.1
15°	995.8	996.9	998.0	998.6	999.1	999.7	1000.2	1000.8	1001.3	1001.9	1002.4
17.5°	978.7	978.3	978.0	977.9	977.8	977.7	977.6	977.4	977.3	977.2	977.1
20°	964.3	961.7	959.0	957.9	956.8	955.7	954.6	953.4	952.3	951.2	950.1
22.5°	954.0	949.0	944.0	941.2	938.4	935.7	932.9	930.1	927.3	924.6	921.8
25°	951.6	944.8	938.0	932.6	927.1	921.7	916.3	910.8	905.4	900.0	894.5
27.5°	952.2	944.1	936.0	927.2	918.5	909.7	900.9	892.2	883.4	874.6	865.9
30°	952.1	942.5	933.0	921.0	909.0	897.0	885.0	873.1	861.1	849.1	837.1
32.5°	952.9	941.4	930.0	915.0	900.0	885.1	870.1	855.1	840.1	825.2	810.2
35°	955.6	942.3	929.0	910.8	892.6	874.4	856.2	838.0	819.8	801.6	783.4
37.5°	962.3	946.7	931.0	909.6	888.2	866.7	845.3	823.9	802.5	781.0	759.6
40°	970.9	952.4	934.0	909.7	885.4	861.1	836.8	812.5	788.2	763.9	739.6
42.5°	983.3	961.6	940.0	912.9	885.8	858.8	831.7	804.6	777.5	750.5	723.4
45°	1000.4	975.2	950.0	919.7	889.4	859.1	828.8	798.5	768.2	737.9	707.6
47.5°	1021.8	992.4	963.0	929.1	895.3	861.4	827.6	793.7	759.9	726.0	692.2
50°	1048.2	1014.1	980.0	942.3	904.5	866.8	829.0	791.3	753.5	715.8	678.0
52.5°	1080.1	1041.1	1002.0	959.9	917.8	875.8	833.7	791.6	749.5	707.5	665.4
55°	1118.0	1074.0	1029.9	983.1	936.2	889.4	842.6	795.7	748.9	702.1	655.2
57.5°	1160.0	1111.0	1061.9	1009.8	957.8	905.7	853.7	801.6	749.6	697.5	645.5
60°	1201.6	1147.7	1093.9	1036.8	979.8	922.7	865.7	808.6	751.6	694.5	637.5
62.5°	1244.1	1187.0	1129.8	1067.3	1004.8	942.3	879.8	817.4	754.9	692.4	629.9
65°	1280.0	1220.4	1160.8	1093.2	1025.6	958.0	890.4	822.8	755.2	687.6	620.0
67.5°	1303.7	1242.7	1181.8	1110.0	1038.2	966.3	894.5	822.7	750.9	679.0	607.2
70°	1310.0	1249.4	1188.8	1114.2	1039.6	965.0	890.4	815.9	741.3	666.7	592.1
72.5°	1293.2	1234.5	1175.8	1100.1	1024.4	948.7	873.0	797.3	721.6	645.9	570.2
75°	1251.8	1196.3	1140.8	1066.1	991.4	916.7	842.0	767.3	692.6	617.9	543.2
77.5°	1189.9	1138.4	1086.9	1015.1	943.3	871.4	799.6	727.8	656.0	584.1	512.3
80°	1107.4	1060.6	1013.9	946.8	879.6	812.5	745.3	678.2	611.0	543.9	476.7
82.5°	1019.9	979.0	938.0	875.6	813.2	750.9	688.5	626.1	563.7	501.4	439.0
85°	924.5	888.3	852.1	795.7	739.3	682.9	626.5	570.2	513.8	457.4	401.0
87.5°	830.2	798.7	767.2	716.8	666.4	616.0	565.6	515.3	464.9	414.5	364.1
90°	747.0	719.2	691.3	646.1	600.9	555.8	510.6	465.4	420.2	375.1	329.9
92.5°	683.0	658.2	633.3	592.3	551.4	510.4	469.5	428.5	387.6	346.6	305.7
95°	630.6	607.5	584.4	546.8	509.1	471.5	433.9	396.2	358.6	321.0	283.3
97.5°	585.9	564.2	542.4	507.3	472.3	437.2	402.1	367.1	332.0	296.9	261.9
100°	548.5	527.5	506.5	473.3	440.1	406.9	373.7	340.6	307.4	274.2	241.0
102.5°	517.2	496.4	475.5	443.9	412.2	380.6	349.0	317.3	285.7	254.1	222.4
105°	490.3	469.9	449.5	419.1	388.7	358.3	327.9	297.4	267.0	236.6	206.2
107.5°	466.2	445.9	425.6	396.2	366.8	337.3	307.9	278.5	249.1	219.6	190.2
110°	443.0	422.8	402.6	374.2	345.8	317.3	288.9	260.5	232.1	203.6	175.2



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	419.8	399.7	379.6	352.3	325.0	297.7	270.4	243.1	215.8	188.5	161.2
115°	396.8	376.7	356.6	330.4	304.2	278.0	251.8	225.7	199.5	173.3	147.1
117.5°	372.4	352.6	332.7	307.8	283.0	258.1	233.2	208.4	183.5	158.6	133.8
120°	346.8	327.2	307.7	284.5	261.3	238.1	214.9	191.7	168.5	145.3	122.1
122.5°	320.2	301.5	282.7	261.3	239.9	218.4	197.0	175.6	154.2	132.7	111.3
125°	293.2	275.5	257.7	238.1	218.4	198.8	179.1	159.5	139.8	120.2	100.5
127.5°	264.3	247.6	230.8	213.1	195.5	177.8	160.2	142.5	124.9	107.2	89.6
130°	235.9	220.3	204.8	189.1	173.5	157.8	142.2	126.5	110.9	95.2	79.6
132.5°	206.9	192.3	177.8	164.3	150.7	137.2	123.6	110.1	96.5	83.0	69.4
135°	183.8	170.8	157.8	145.6	133.4	121.2	109.0	96.7	84.5	72.3	60.1
137.5°	161.4	150.7	139.9	128.9	117.9	106.9	95.9	85.0	74.0	63.0	52.0
140°	138.8	130.3	121.9	112.0	102.1	92.3	82.4	72.5	62.6	52.8	42.9
142.5°	119.8	112.3	104.9	96.1	87.4	78.6	69.8	61.1	52.3	43.5	34.8
145°	101.8	95.3	88.9	81.2	73.6	65.9	58.3	50.6	43.0	35.3	27.7
147.5°	86.0	80.5	74.9	68.4	61.8	55.3	48.7	42.2	35.6	29.1	22.5
150°	71.2	66.6	61.9	56.6	51.3	45.9	40.6	35.3	30.0	24.6	19.3
152.5°	56.7	52.8	48.9	44.8	40.7	36.6	32.5	28.4	24.3	20.2	16.1
155°	43.6	40.3	37.0	33.9	30.8	27.7	24.6	21.4	18.3	15.2	12.1
157.5°	31.5	28.8	26.0	23.9	21.8	19.7	17.6	15.4	13.3	11.2	9.1
160°	21.2	19.1	17.0	15.7	14.3	13.0	11.7	10.3	9.0	7.7	6.3
162.5°	14.2	13.1	12.0	11.1	10.2	9.3	8.4	7.6	6.7	5.8	4.9
165°	9.1	8.6	8.0	7.4	6.9	6.3	5.8	5.2	4.7	4.1	3.6
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: P201349

CATALOG NUMBER: 4LBLEDD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1099.9	1103.1	1106.3	1109.5	1112.7	1116.0	1119.2	1122.4	1125.6	1128.8	1128.8
5°	1085.9	1090.0	1094.1	1098.2	1102.3	1106.4	1110.5	1114.6	1118.7	1122.8	1123.9
7.5°	1068.9	1073.9	1078.9	1083.9	1088.9	1093.8	1098.8	1103.8	1108.8	1113.8	1116.1
10°	1047.9	1053.7	1059.5	1065.2	1071.0	1076.8	1082.6	1088.3	1094.1	1099.9	1103.6
12.5°	1026.9	1033.1	1039.3	1045.6	1051.8	1058.0	1064.2	1070.5	1076.7	1082.9	1087.8
15°	1003.0	1009.5	1016.1	1022.6	1029.2	1035.7	1042.3	1048.8	1055.4	1061.9	1068.2
17.5°	977.0	983.8	990.5	997.3	1004.1	1010.8	1017.6	1024.4	1031.1	1037.9	1045.6
20°	949.0	955.9	962.8	969.6	976.5	983.4	990.3	997.1	1004.0	1010.9	1020.0
22.5°	919.0	925.7	932.3	939.0	945.7	952.3	959.0	965.7	972.3	979.0	989.7
25°	889.1	895.4	901.7	908.1	914.4	920.7	927.0	933.4	939.7	946.0	958.2
27.5°	857.1	863.1	869.1	875.1	881.1	887.0	893.0	899.0	905.0	911.0	924.8
30°	825.1	830.2	835.3	840.4	845.5	850.7	855.8	860.9	866.0	871.1	886.6
32.5°	795.2	799.1	803.0	806.8	810.7	814.6	818.5	822.3	826.2	830.1	847.5
35°	765.2	767.8	770.3	772.9	775.4	778.0	780.5	783.1	785.6	788.2	807.4
37.5°	738.2	738.9	739.5	740.2	740.9	741.5	742.2	742.9	743.5	744.2	766.1
40°	715.3	713.6	712.0	710.3	708.6	707.0	705.3	703.6	702.0	700.3	724.8
42.5°	696.3	691.6	687.0	682.3	677.6	673.0	668.3	663.6	659.0	654.3	681.6
45°	677.3	669.6	662.0	654.3	646.7	639.0	631.4	623.7	616.1	608.4	638.9
47.5°	658.3	647.9	637.4	627.0	616.6	606.1	595.7	585.3	574.8	564.4	597.7
50°	640.3	626.9	613.5	600.0	586.6	573.2	559.8	546.3	532.9	519.5	555.8
52.5°	623.3	606.8	590.2	573.7	557.2	540.6	524.1	507.6	491.0	474.5	513.9
55°	608.4	588.9	569.3	549.8	530.2	510.7	491.1	471.6	452.0	432.5	474.9
57.5°	593.4	570.9	548.3	525.8	503.3	480.7	458.2	435.7	413.1	390.6	436.1
60°	580.4	554.8	529.1	503.5	477.8	452.2	426.5	400.9	375.2	349.6	398.3
62.5°	567.4	538.9	510.4	481.8	453.3	424.8	396.3	367.7	339.2	310.7	362.5
65°	552.4	521.3	490.2	459.2	428.1	397.0	365.9	334.9	303.8	272.7	327.4
67.5°	535.4	501.9	468.4	434.9	401.4	367.8	334.3	300.8	267.3	233.8	291.2
70°	517.5	482.1	446.7	411.3	375.9	340.4	305.0	269.6	234.2	198.8	258.2
72.5°	494.5	458.3	422.1	385.9	349.7	313.6	277.4	241.2	205.0	168.8	229.2
75°	468.5	431.8	395.0	358.3	321.6	284.8	248.1	211.4	174.6	137.9	198.9
77.5°	440.5	403.5	366.6	329.6	292.7	255.7	218.8	181.8	144.9	107.9	168.8
80°	409.6	373.1	336.6	300.0	263.5	227.0	190.5	153.9	117.4	80.9	141.0
82.5°	376.6	341.0	305.3	269.7	234.1	198.4	162.8	127.2	91.5	55.9	114.3
85°	344.6	310.1	275.6	241.1	206.6	172.0	137.5	103.0	68.5	34.0	90.2
87.5°	313.7	280.4	247.1	213.8	180.5	147.2	113.9	80.6	47.3	14.0	67.5
90°	284.7	253.2	221.7	190.1	158.6	127.1	95.6	64.0	32.5	1.0	51.1
92.5°	264.7	235.3	205.9	176.5	147.1	117.6	88.2	58.8	29.4	0.0	46.5
95°	245.7	218.4	191.1	163.8	136.5	109.2	81.9	54.6	27.3	0.0	42.8
97.5°	226.8	201.7	176.6	151.5	126.4	101.4	76.3	51.2	26.1	1.0	40.3
100°	207.8	184.8	161.8	138.9	115.9	92.9	69.9	47.0	24.0	1.0	37.0
102.5°	190.8	169.7	148.6	127.5	106.4	85.4	64.3	43.2	22.1	1.0	33.7
105°	175.8	156.4	137.0	117.5	98.1	78.7	59.3	39.8	20.4	1.0	30.9
107.5°	160.8	143.0	125.3	107.5	89.8	72.0	54.3	36.5	18.8	1.0	28.3
110°	146.8	130.6	114.4	98.2	82.0	65.8	49.6	33.4	17.2	1.0	25.4



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	133.9	119.1	104.4	89.6	74.8	60.1	45.3	30.5	15.8	1.0	23.2
115°	120.9	107.6	94.3	80.9	67.6	54.3	41.0	27.6	14.3	1.0	21.2
117.5°	108.9	96.9	84.9	72.9	60.9	49.0	37.0	25.0	13.0	1.0	19.3
120°	98.9	88.0	77.1	66.3	55.4	44.5	33.6	22.8	11.9	1.0	17.5
122.5°	89.9	80.0	70.1	60.3	50.4	40.5	30.6	20.8	10.9	1.0	15.5
125°	80.9	72.0	63.1	54.3	45.4	36.5	27.6	18.8	9.9	1.0	13.8
127.5°	71.9	64.0	56.1	48.3	40.4	32.5	24.6	16.8	8.9	1.0	11.9
130°	63.9	56.9	49.9	42.9	35.9	29.0	22.0	15.0	8.0	1.0	9.9
132.5°	55.9	49.8	43.7	37.6	31.5	25.4	19.3	13.2	7.1	1.0	8.2
135°	47.9	42.7	37.5	32.3	27.1	21.8	16.6	11.4	6.2	1.0	6.5
137.5°	41.0	36.6	32.1	27.7	23.2	18.8	14.3	9.9	5.4	1.0	5.2
140°	33.0	29.4	25.9	22.3	18.8	15.2	11.7	8.1	4.6	1.0	3.9
142.5°	26.0	23.2	20.4	17.7	14.9	12.1	9.3	6.6	3.8	1.0	3.0
145°	20.0	17.9	15.8	13.7	11.6	9.4	7.3	5.2	3.1	1.0	2.3
147.5°	16.0	14.4	12.9	11.3	9.8	8.2	6.7	5.1	3.6	2.0	2.9
150°	14.0	12.7	11.3	10.0	8.7	7.3	6.0	4.7	3.3	2.0	2.7
152.5°	12.0	10.9	9.8	8.7	7.6	6.4	5.3	4.2	3.1	2.0	2.4
155°	9.0	8.2	7.4	6.7	5.9	5.1	4.3	3.6	2.8	2.0	2.3
157.5°	7.0	6.4	5.9	5.3	4.8	4.2	3.7	3.1	2.6	2.0	2.2
160°	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.7	2.3	2.0	2.1
162.5°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	2.0
165°	3.0	2.9	2.8	2.7	2.6	2.4	2.3	2.2	2.1	2.0	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: P201349

CATALOG NUMBER: 4LBLEDD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1129.7	1130.6	1131.5
5°	1125.0	1126.1	1127.2	1128.4	1129.5	1130.6	1131.7	1132.8	1134.9	1137.0	1139.1
7.5°	1118.5	1120.8	1123.1	1125.5	1127.8	1130.1	1132.5	1134.8	1138.1	1141.5	1144.8
10°	1107.2	1110.9	1114.5	1118.2	1121.8	1125.5	1129.1	1132.8	1137.2	1141.7	1146.1
12.5°	1092.7	1097.5	1102.4	1107.3	1112.2	1117.0	1121.9	1126.8	1132.7	1138.6	1144.5
15°	1074.5	1080.9	1087.2	1093.5	1099.8	1106.2	1112.5	1118.8	1126.2	1133.7	1141.1
17.5°	1053.2	1060.9	1068.5	1076.2	1083.8	1091.5	1099.1	1106.8	1116.0	1125.2	1134.5
20°	1029.1	1038.2	1047.3	1056.5	1065.6	1074.7	1083.8	1092.9	1104.1	1115.3	1126.5
22.5°	1000.3	1011.0	1021.6	1032.3	1042.9	1053.6	1064.2	1074.9	1088.9	1102.9	1116.8
25°	970.4	982.6	994.8	1007.1	1019.3	1031.5	1043.7	1055.9	1073.3	1090.7	1108.2
27.5°	938.5	952.3	966.1	979.8	993.6	1007.4	1021.1	1034.9	1055.9	1076.9	1097.8
30°	902.2	917.7	933.2	948.8	964.3	979.8	995.4	1010.9	1035.9	1060.9	1085.8
32.5°	865.0	882.4	899.8	917.3	934.7	952.1	969.6	987.0	1015.5	1044.0	1072.6
35°	826.6	845.8	865.0	884.2	903.4	922.6	941.8	961.0	993.5	1026.0	1058.6
37.5°	787.9	809.8	831.7	853.5	875.4	897.3	919.1	941.0	977.1	1013.2	1049.2
40°	749.3	773.9	798.4	822.9	847.4	872.0	896.5	921.0	961.0	1000.9	1040.9
42.5°	708.9	736.2	763.5	790.9	818.2	845.5	872.8	900.1	944.3	988.4	1032.6
45°	669.4	700.0	730.5	761.0	791.5	822.1	852.6	883.1	931.4	979.7	1027.9
47.5°	631.0	664.3	697.6	730.9	764.2	797.5	830.8	864.1	917.4	970.7	1023.9
50°	592.1	628.4	664.7	700.9	737.2	773.5	809.8	846.1	904.7	963.3	1021.9
52.5°	553.3	592.7	632.1	671.5	710.9	750.3	789.7	829.1	893.5	957.9	1022.2
55°	517.3	559.7	602.1	644.6	687.0	729.4	771.8	814.2	885.0	955.8	1026.6
57.5°	481.6	527.1	572.6	618.2	663.7	709.2	754.7	800.2	878.1	956.0	1033.9
60°	447.1	495.8	544.5	593.3	642.0	690.7	739.5	788.2	873.6	958.9	1044.3
62.5°	414.4	466.2	518.0	569.9	621.7	673.5	725.4	777.2	870.1	963.0	1055.9
65°	382.1	436.9	491.6	546.3	601.0	655.8	710.5	765.2	865.3	965.4	1065.6
67.5°	348.6	405.9	463.3	520.7	578.1	635.4	692.8	750.2	856.8	963.3	1069.9
70°	317.6	376.9	436.3	495.7	555.1	614.4	673.8	733.2	844.5	955.9	1067.2
72.5°	289.6	350.0	410.4	470.7	531.1	591.5	651.9	712.3	826.0	939.6	1053.3
75°	260.0	321.0	382.1	443.1	504.2	565.2	626.3	687.3	800.6	913.9	1027.3
77.5°	229.8	290.7	351.6	412.6	473.5	534.4	595.4	656.3	766.3	876.3	986.3
80°	201.0	261.1	321.1	381.2	441.2	501.3	561.3	621.4	726.0	830.5	935.1
82.5°	172.7	231.1	289.5	347.8	406.2	464.6	523.0	581.4	679.1	776.8	874.4
85°	146.3	202.5	258.6	314.8	370.9	427.1	483.2	539.4	629.4	719.4	809.5
87.5°	121.0	174.5	228.0	281.5	335.0	388.5	442.0	495.5	577.4	659.3	741.2
90°	101.1	151.2	201.2	251.3	301.3	351.4	401.4	451.5	525.9	600.2	674.6
92.5°	93.0	139.5	186.0	232.6	279.1	325.6	372.1	418.6	486.2	553.8	621.4
95°	85.7	128.5	171.4	214.2	257.1	299.9	342.8	385.6	447.8	509.9	572.1
97.5°	79.6	118.9	158.2	197.4	236.7	276.0	315.3	354.6	412.3	470.0	527.8
100°	72.9	108.9	144.9	180.8	216.8	252.8	288.7	324.7	378.2	431.7	485.2
102.5°	66.5	99.2	132.0	164.7	197.5	230.2	263.0	295.7	347.0	398.3	449.5
105°	60.7	90.6	120.4	150.3	180.1	210.0	239.8	269.7	318.0	366.3	414.6
107.5°	55.6	82.9	110.2	137.5	164.8	192.1	219.4	246.7	292.8	338.8	384.9
110°	49.8	74.3	98.7	123.1	147.5	172.0	196.4	220.8	265.0	309.2	353.3



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	45.4	67.6	89.8	112.0	134.2	156.4	178.6	200.8	242.8	284.7	326.7
115°	41.4	61.6	81.8	102.0	122.2	142.4	162.6	182.8	222.8	262.7	302.7
117.5°	37.6	55.9	74.2	92.6	110.9	129.2	147.5	165.8	204.1	242.4	280.7
120°	34.1	50.6	67.1	83.7	100.2	116.7	133.3	149.8	185.7	221.5	257.4
122.5°	30.1	44.6	59.2	73.7	88.3	102.8	117.4	131.9	165.1	198.3	231.5
125°	26.5	39.3	52.1	64.8	77.6	90.4	103.1	115.9	146.6	177.4	208.1
127.5°	22.8	33.6	44.5	55.4	66.3	77.1	88.0	98.9	127.5	156.2	184.8
130°	18.8	27.6	36.5	45.4	54.3	63.1	72.0	80.9	106.8	132.6	158.5
132.5°	15.4	22.6	29.8	37.1	44.3	51.5	58.7	65.9	88.8	111.6	134.5
135°	12.1	17.6	23.2	28.7	34.3	39.8	45.4	50.9	70.8	90.7	110.5
137.5°	9.4	13.7	17.9	22.1	26.3	30.6	34.8	39.0	56.1	73.2	90.3
140°	6.8	9.7	12.6	15.4	18.3	21.2	24.1	27.0	41.9	56.7	71.6
142.5°	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	31.5	44.1	56.6
145°	3.7	5.0	6.3	7.7	9.0	10.3	11.7	13.0	23.2	33.4	43.6
147.5°	3.8	4.7	5.6	6.4	7.3	8.2	9.1	10.0	18.0	26.0	34.0
150°	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	13.9	19.8	25.6
152.5°	2.9	3.3	3.8	4.2	4.7	5.1	5.6	6.0	10.1	14.2	18.3
155°	2.7	3.0	3.3	3.7	4.0	4.3	4.7	5.0	7.4	9.9	12.3
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	5.3	6.7	8.0
160°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.6	4.1	4.7
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.7
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	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: P201349

CATALOG NUMBER: 4LBLEDD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1132.4	1133.2	1134.1	1135.0	1135.9	1136.8	1137.1	1137.5	1137.8	1138.1	1138.5
5°	1141.2	1143.4	1145.5	1147.6	1149.7	1151.8	1152.9	1154.0	1155.1	1156.2	1157.4
7.5°	1148.1	1151.5	1154.8	1158.1	1161.5	1164.8	1166.7	1168.6	1170.5	1172.4	1174.2
10°	1150.6	1155.0	1159.5	1163.9	1168.4	1172.8	1176.0	1179.2	1182.4	1185.6	1188.9
12.5°	1150.4	1156.2	1162.1	1168.0	1173.9	1179.8	1184.2	1188.7	1193.1	1197.5	1202.0
15°	1148.6	1156.0	1163.5	1170.9	1178.4	1185.8	1191.6	1197.3	1203.1	1208.9	1214.6
17.5°	1143.7	1152.9	1162.1	1171.4	1180.6	1189.8	1197.6	1205.3	1213.1	1220.9	1228.6
20°	1137.7	1149.0	1160.2	1171.4	1182.6	1193.8	1204.3	1214.9	1225.4	1236.0	1246.5
22.5°	1130.8	1144.8	1158.8	1172.7	1186.7	1200.7	1213.7	1226.7	1239.7	1252.7	1265.6
25°	1125.6	1143.0	1160.4	1177.9	1195.3	1212.7	1227.5	1242.2	1257.0	1271.8	1286.5
27.5°	1118.8	1139.8	1160.8	1181.7	1202.7	1223.7	1240.4	1257.0	1273.7	1290.3	1307.0
30°	1110.8	1135.8	1160.8	1185.7	1210.7	1235.7	1254.2	1272.8	1291.3	1309.8	1328.4
32.5°	1101.1	1129.6	1158.1	1186.7	1215.2	1243.7	1265.0	1286.3	1307.6	1328.9	1350.3
35°	1091.1	1123.6	1156.1	1188.7	1221.2	1253.7	1277.9	1302.1	1326.3	1350.5	1374.7
37.5°	1085.3	1121.4	1157.5	1193.5	1229.6	1265.7	1293.4	1321.2	1348.9	1376.7	1404.4
40°	1080.9	1120.8	1160.8	1200.8	1240.7	1280.7	1312.4	1344.2	1375.9	1407.7	1439.4
42.5°	1076.8	1120.9	1165.1	1209.3	1253.4	1297.6	1334.1	1370.6	1407.2	1443.7	1480.2
45°	1076.2	1124.5	1172.8	1221.0	1269.3	1317.6	1359.9	1402.2	1444.5	1486.8	1529.0
47.5°	1077.2	1130.5	1183.8	1237.0	1290.3	1343.6	1392.1	1440.6	1489.1	1537.6	1586.1
50°	1080.5	1139.2	1197.8	1256.4	1315.0	1373.6	1429.2	1484.8	1540.4	1596.0	1651.6
52.5°	1086.6	1151.0	1215.4	1279.7	1344.1	1408.5	1471.5	1534.6	1597.6	1660.7	1723.7
55°	1097.4	1168.3	1239.1	1309.9	1380.7	1451.5	1522.2	1592.9	1663.6	1734.3	1805.0
57.5°	1111.8	1189.8	1267.7	1345.6	1423.5	1501.4	1579.2	1657.0	1734.8	1812.6	1890.5
60°	1129.6	1215.0	1300.3	1385.7	1471.0	1556.4	1640.4	1724.4	1808.5	1892.5	1976.5
62.5°	1148.8	1241.7	1334.6	1427.5	1520.4	1613.3	1702.2	1791.1	1880.0	1968.9	2057.9
65°	1165.7	1265.8	1365.9	1466.1	1566.2	1666.3	1758.8	1851.2	1943.7	2036.1	2128.6
67.5°	1176.4	1283.0	1389.5	1496.1	1602.6	1709.2	1803.9	1898.6	1993.2	2087.9	2182.6
70°	1178.5	1289.9	1401.2	1512.5	1623.9	1735.2	1829.4	1923.7	2017.9	2112.1	2206.4
72.5°	1166.9	1280.6	1394.2	1507.9	1621.5	1735.2	1827.1	1919.0	2010.9	2102.8	2194.7
75°	1140.6	1253.9	1367.2	1480.6	1593.9	1707.2	1796.0	1884.8	1973.6	2062.4	2151.2
77.5°	1096.3	1206.3	1316.3	1426.3	1536.3	1646.3	1729.1	1811.9	1894.7	1977.5	2060.3
80°	1039.6	1144.2	1248.7	1353.3	1457.8	1562.4	1638.5	1714.7	1790.8	1867.0	1943.1
82.5°	972.1	1069.8	1167.5	1265.1	1362.8	1460.5	1531.4	1602.3	1673.3	1744.2	1815.1
85°	899.5	989.5	1079.5	1169.6	1259.6	1349.6	1411.9	1474.1	1536.4	1598.7	1660.9
87.5°	823.1	905.1	987.0	1068.9	1150.8	1232.7	1288.3	1343.9	1399.5	1455.1	1510.8
90°	749.0	823.3	897.7	972.1	1046.4	1120.8	1171.0	1221.2	1271.3	1321.5	1371.7
92.5°	689.0	756.5	824.1	891.7	959.3	1026.9	1073.0	1119.0	1165.1	1211.2	1257.2
95°	634.2	696.4	758.5	820.7	882.8	945.0	989.6	1034.2	1078.9	1123.5	1168.1
97.5°	585.5	643.2	700.9	758.7	816.4	874.1	915.7	957.3	999.0	1040.6	1082.2
100°	538.7	592.2	645.7	699.2	752.7	806.2	846.8	887.4	928.1	968.7	1009.3
102.5°	500.8	552.1	603.4	654.6	705.9	757.2	796.2	835.1	874.1	913.0	952.0
105°	462.9	511.1	559.4	607.7	656.0	704.3	743.0	781.8	820.5	859.2	898.0
107.5°	431.0	477.0	523.1	569.2	615.2	661.3	699.4	737.5	775.5	813.6	851.7
110°	397.5	441.7	485.9	530.0	574.2	618.4	655.8	693.2	730.6	768.0	805.4



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLEDD-LD4-9-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°	368.6	410.6	452.5	494.5	536.4	578.4	614.8	651.2	687.6	724.0	760.5
115°	342.6	382.6	422.5	462.5	502.4	542.4	577.1	611.9	646.6	681.4	716.1
117.5°	319.0	357.3	395.6	433.9	472.2	510.5	543.4	576.2	609.1	641.9	674.8
120°	293.2	329.1	364.9	400.8	436.6	472.5	504.6	536.7	568.7	600.8	632.9
122.5°	264.7	297.8	331.0	364.2	397.4	430.6	462.0	493.4	524.8	556.2	587.7
125°	238.9	269.6	300.4	331.1	361.9	392.6	422.2	451.9	481.5	511.1	540.8
127.5°	213.4	242.1	270.7	299.3	328.0	356.6	383.8	411.0	438.2	465.4	492.6
130°	184.4	210.2	236.1	262.0	287.8	313.7	338.8	363.9	388.9	414.0	439.1
132.5°	157.4	180.2	203.1	226.0	248.8	271.7	295.3	319.0	342.6	366.3	389.9
135°	130.4	150.3	170.2	190.0	209.9	229.8	252.7	275.5	298.4	321.2	344.1
137.5°	107.4	124.4	141.5	158.6	175.7	192.8	214.0	235.2	256.4	277.6	298.8
140°	86.5	101.3	116.2	131.1	145.9	160.8	179.1	197.4	215.8	234.1	252.4
142.5°	69.2	81.7	94.3	106.8	119.4	131.9	147.4	163.0	178.5	194.0	209.6
145°	53.8	64.1	74.3	84.5	94.7	104.9	117.9	130.9	143.9	156.9	169.8
147.5°	42.0	49.9	57.9	65.9	73.9	81.9	92.7	103.4	114.2	125.0	135.7
150°	31.5	37.4	43.3	49.1	55.0	60.9	69.8	78.7	87.6	96.5	105.3
152.5°	22.4	26.6	30.7	34.8	38.9	43.0	50.0	57.0	64.0	71.0	77.9
155°	14.8	17.2	19.7	22.1	24.6	27.0	32.4	37.9	43.3	48.7	54.2
157.5°	9.3	10.7	12.0	13.3	14.7	16.0	19.9	23.8	27.6	31.5	35.4
160°	5.2	5.8	6.3	6.9	7.4	8.0	10.3	12.7	15.0	17.3	19.7
162.5°	2.9	3.1	3.3	3.6	3.8	4.0	5.0	6.0	7.0	8.0	9.0
165°	1.6	1.4	1.3	1.2	1.1	1.0	1.3	1.7	2.0	2.3	2.7
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: P201349

CATALOG NUMBER: 4LBLELD4-9-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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1138.8	1139.1	1139.5	1139.8	1138.7	1137.6	1136.5	1135.4	1134.2	1133.1	1132.0
5°	1158.5	1159.6	1160.7	1161.8	1161.7	1161.6	1161.5	1161.4	1161.2	1161.1	1161.0
7.5°	1176.1	1178.0	1179.9	1181.8	1182.1	1182.5	1182.8	1183.1	1183.5	1183.8	1184.1
10°	1192.1	1195.3	1198.5	1201.7	1202.1	1202.6	1203.0	1203.5	1203.9	1204.4	1204.8
12.5°	1206.4	1210.8	1215.3	1219.7	1220.7	1221.7	1222.7	1223.7	1224.7	1225.7	1226.7
15°	1220.4	1226.2	1231.9	1237.7	1239.5	1241.3	1243.0	1244.8	1246.6	1248.4	1250.1
17.5°	1236.4	1244.2	1251.9	1259.7	1262.7	1265.7	1268.7	1271.7	1274.7	1277.7	1280.7
20°	1257.1	1267.6	1278.2	1288.7	1292.6	1296.5	1300.3	1304.2	1308.1	1312.0	1315.8
22.5°	1278.6	1291.6	1304.6	1317.6	1321.9	1326.3	1330.6	1334.9	1339.3	1343.6	1347.9
25°	1301.3	1316.1	1330.8	1345.6	1350.6	1355.6	1360.6	1365.6	1370.5	1375.5	1380.5
27.5°	1323.6	1340.3	1356.9	1373.6	1379.5	1385.4	1391.2	1397.1	1403.0	1408.9	1414.7
30°	1346.9	1365.4	1384.0	1402.5	1409.6	1416.7	1423.8	1430.9	1438.1	1445.2	1452.3
32.5°	1371.6	1392.9	1414.2	1435.5	1443.9	1452.4	1460.8	1469.2	1477.7	1486.1	1494.5
35°	1398.9	1423.1	1447.3	1471.5	1481.8	1492.1	1502.5	1512.8	1523.1	1533.4	1543.8
37.5°	1432.2	1459.9	1487.7	1515.4	1527.6	1539.8	1552.0	1564.2	1576.5	1588.7	1600.9
40°	1471.2	1502.9	1534.7	1566.4	1580.7	1595.0	1609.3	1623.6	1638.0	1652.3	1666.6
42.5°	1516.7	1553.3	1589.8	1626.3	1643.1	1659.8	1676.6	1693.3	1710.1	1726.8	1743.6
45°	1571.3	1613.6	1655.9	1698.2	1717.3	1736.4	1755.5	1774.6	1793.6	1812.7	1831.8
47.5°	1634.6	1683.1	1731.6	1780.1	1801.6	1823.2	1844.7	1866.2	1887.8	1909.3	1930.8
50°	1707.2	1762.8	1818.4	1874.0	1899.2	1924.4	1949.6	1974.8	2000.0	2025.2	2050.4
52.5°	1786.8	1849.8	1912.9	1975.9	2003.9	2031.9	2059.8	2087.8	2115.8	2143.8	2171.7
55°	1875.7	1946.4	2017.1	2087.8	2116.8	2145.7	2174.7	2203.7	2232.6	2261.6	2290.6
57.5°	1968.3	2046.1	2123.9	2201.7	2232.6	2263.4	2294.3	2325.1	2356.0	2386.8	2417.7
60°	2060.5	2144.6	2228.6	2312.6	2345.3	2378.1	2410.8	2443.6	2476.3	2509.1	2541.8
62.5°	2146.8	2235.7	2324.6	2413.5	2446.4	2479.2	2512.1	2544.9	2577.8	2610.6	2643.5
65°	2221.0	2313.5	2405.9	2498.4	2530.0	2561.7	2593.3	2624.9	2656.6	2688.2	2719.8
67.5°	2277.3	2371.9	2466.6	2561.3	2591.5	2621.7	2651.9	2682.1	2712.2	2742.4	2772.6
70°	2300.6	2394.8	2489.1	2583.3	2612.5	2641.7	2670.9	2700.1	2729.2	2758.4	2787.6
72.5°	2286.6	2378.5	2470.4	2562.3	2590.7	2619.1	2647.6	2676.0	2704.4	2732.8	2761.3
75°	2240.0	2328.8	2417.6	2506.4	2532.5	2558.6	2584.6	2610.7	2636.8	2662.9	2688.9
77.5°	2143.1	2225.9	2308.7	2391.5	2417.5	2443.5	2469.4	2495.4	2521.4	2547.4	2573.3
80°	2019.3	2095.4	2171.6	2247.7	2272.7	2297.6	2322.6	2347.6	2372.5	2397.5	2422.5
82.5°	1886.0	1957.0	2027.9	2098.8	2120.2	2141.6	2163.1	2184.5	2205.9	2227.3	2248.8
85°	1723.2	1785.5	1847.7	1910.0	1931.3	1952.6	1973.9	1995.2	2016.6	2037.9	2059.2
87.5°	1566.4	1622.0	1677.6	1733.2	1753.3	1773.4	1793.5	1813.6	1833.6	1853.7	1873.8
90°	1421.9	1472.0	1522.2	1572.4	1591.4	1610.4	1629.3	1648.3	1667.3	1686.3	1705.2
92.5°	1303.3	1349.4	1395.4	1441.5	1459.1	1476.8	1494.4	1512.1	1529.7	1547.4	1565.0
95°	1212.7	1257.4	1302.0	1346.6	1361.5	1376.4	1391.2	1406.1	1421.0	1435.9	1450.7
97.5°	1123.8	1165.5	1207.1	1248.7	1263.6	1278.5	1293.3	1308.2	1323.1	1338.0	1352.8
100°	1049.9	1090.6	1131.2	1171.8	1186.3	1200.9	1215.4	1229.9	1244.5	1259.0	1273.5
102.5°	990.9	1029.9	1068.8	1107.8	1122.2	1136.7	1151.1	1165.5	1180.0	1194.4	1208.8
105°	936.7	975.4	1014.2	1052.9	1067.2	1081.5	1095.9	1110.2	1124.5	1138.8	1153.2
107.5°	889.8	927.8	965.9	1004.0	1018.1	1032.2	1046.3	1060.4	1074.4	1088.5	1102.6
110°	842.8	880.2	917.6	955.0	969.1	983.2	997.3	1011.4	1025.5	1039.6	1053.7



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-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°	796.9	833.3	869.7	906.1	920.1	934.1	948.0	962.0	976.0	990.0	1003.9
115°	750.9	785.6	820.4	855.1	868.9	882.6	896.4	910.2	923.9	937.7	951.5
117.5°	707.6	740.5	773.3	806.2	819.3	832.4	845.5	858.6	871.6	884.7	897.8
120°	665.0	697.0	729.1	761.2	773.5	785.8	798.2	810.5	822.8	835.1	847.5
122.5°	619.1	650.5	681.9	713.3	725.5	737.7	749.9	762.1	774.3	786.5	798.7
125°	570.4	600.0	629.7	659.3	671.5	683.7	695.9	708.1	720.4	732.6	744.8
127.5°	519.8	547.0	574.2	601.4	613.3	625.2	637.0	648.9	660.8	672.7	684.5
130°	464.2	489.2	514.3	539.4	550.4	561.4	572.4	583.4	594.3	605.3	616.3
132.5°	413.6	437.2	460.9	484.5	493.9	503.4	512.8	522.2	531.7	541.1	550.5
135°	366.9	389.8	412.6	435.5	443.7	451.9	460.2	468.4	476.6	484.8	493.1
137.5°	320.0	341.2	362.4	383.6	391.5	399.4	407.2	415.1	423.0	430.9	438.7
140°	270.7	289.1	307.4	325.7	334.0	342.3	350.7	359.0	367.3	375.6	384.0
142.5°	225.1	240.6	256.2	271.7	280.1	288.6	297.0	305.4	313.9	322.3	330.7
145°	182.8	195.8	208.8	221.8	230.5	239.1	247.8	256.4	265.1	273.7	282.4
147.5°	146.5	157.3	168.0	178.8	187.1	195.4	203.8	212.1	220.4	228.7	237.1
150°	114.2	123.1	132.0	140.9	148.4	156.0	163.5	171.1	178.6	186.2	193.7
152.5°	84.9	91.9	98.9	105.9	113.0	120.1	127.2	134.3	141.4	148.5	155.6
155°	59.6	65.0	70.5	75.9	82.3	88.8	95.2	101.7	108.1	114.6	121.0
157.5°	39.3	43.1	47.0	50.9	56.3	61.8	67.2	72.7	78.1	83.6	89.0
160°	22.0	24.3	26.7	29.0	33.4	37.9	42.3	46.7	51.2	55.6	60.0
162.5°	10.0	11.0	12.0	13.0	16.1	19.2	22.3	25.4	28.6	31.7	34.8
165°	3.0	3.3	3.7	4.0	5.9	7.8	9.7	11.6	13.4	15.3	17.2
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: P201349

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1112.8	1112.8
2.5°	1130.9	1129.8
5°	1160.9	1160.8
7.5°	1184.5	1184.8
10°	1205.3	1205.7
12.5°	1227.7	1228.7
15°	1251.9	1253.7
17.5°	1283.7	1286.7
20°	1319.7	1323.6
22.5°	1352.3	1356.6
25°	1385.5	1390.5
27.5°	1420.6	1426.5
30°	1459.4	1466.5
32.5°	1503.0	1511.4
35°	1554.1	1564.4
37.5°	1613.1	1625.3
40°	1680.9	1695.2
42.5°	1760.3	1777.1
45°	1850.9	1870.0
47.5°	1952.4	1973.9
50°	2075.6	2100.8
52.5°	2199.7	2227.7
55°	2319.5	2348.5
57.5°	2448.5	2479.4
60°	2574.6	2607.3
62.5°	2676.3	2709.2
65°	2751.5	2783.1
67.5°	2802.8	2833.0
70°	2816.8	2846.0
72.5°	2789.7	2818.1
75°	2715.0	2741.1
77.5°	2599.3	2625.3
80°	2447.4	2472.4
82.5°	2270.2	2291.6
85°	2080.5	2101.8
87.5°	1893.9	1914.0
90°	1724.2	1743.2
92.5°	1582.7	1600.3
95°	1465.6	1480.5
97.5°	1367.7	1382.6
100°	1288.1	1302.6
102.5°	1223.3	1237.7
105°	1167.5	1181.8
107.5°	1116.7	1130.8
110°	1067.8	1081.9



TEST NUMBER: P201349

CATALOG NUMBER: 4LBLED-LD4-9-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1017.9	1031.9
115°	965.2	979.0
117.5°	910.9	924.0
120°	859.8	872.1
122.5°	810.9	823.1
125°	757.0	769.2
127.5°	696.4	708.3
130°	627.3	638.3
132.5°	560.0	569.4
135°	501.3	509.5
137.5°	446.6	454.5
140°	392.3	400.6
142.5°	339.2	347.6
145°	291.0	299.7
147.5°	245.4	253.7
150°	201.3	208.8
152.5°	162.7	169.8
155°	127.5	133.9
157.5°	94.5	99.9
160°	64.5	68.9
162.5°	37.9	41.0
165°	19.1	21.0
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)