

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: P201391

Luminaire Tested: **8LBLED-LD4-10-ASYMF-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28239)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-10-ASYMF-UNV-L840-CD2-U
Description: 8 ft. Low Bay Linear, 7000 lm, Frst Asym lens, 4K
Light Source: (616) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
(OT50W01080CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10849.2 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 2.03 / 1.17 / 1.79
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

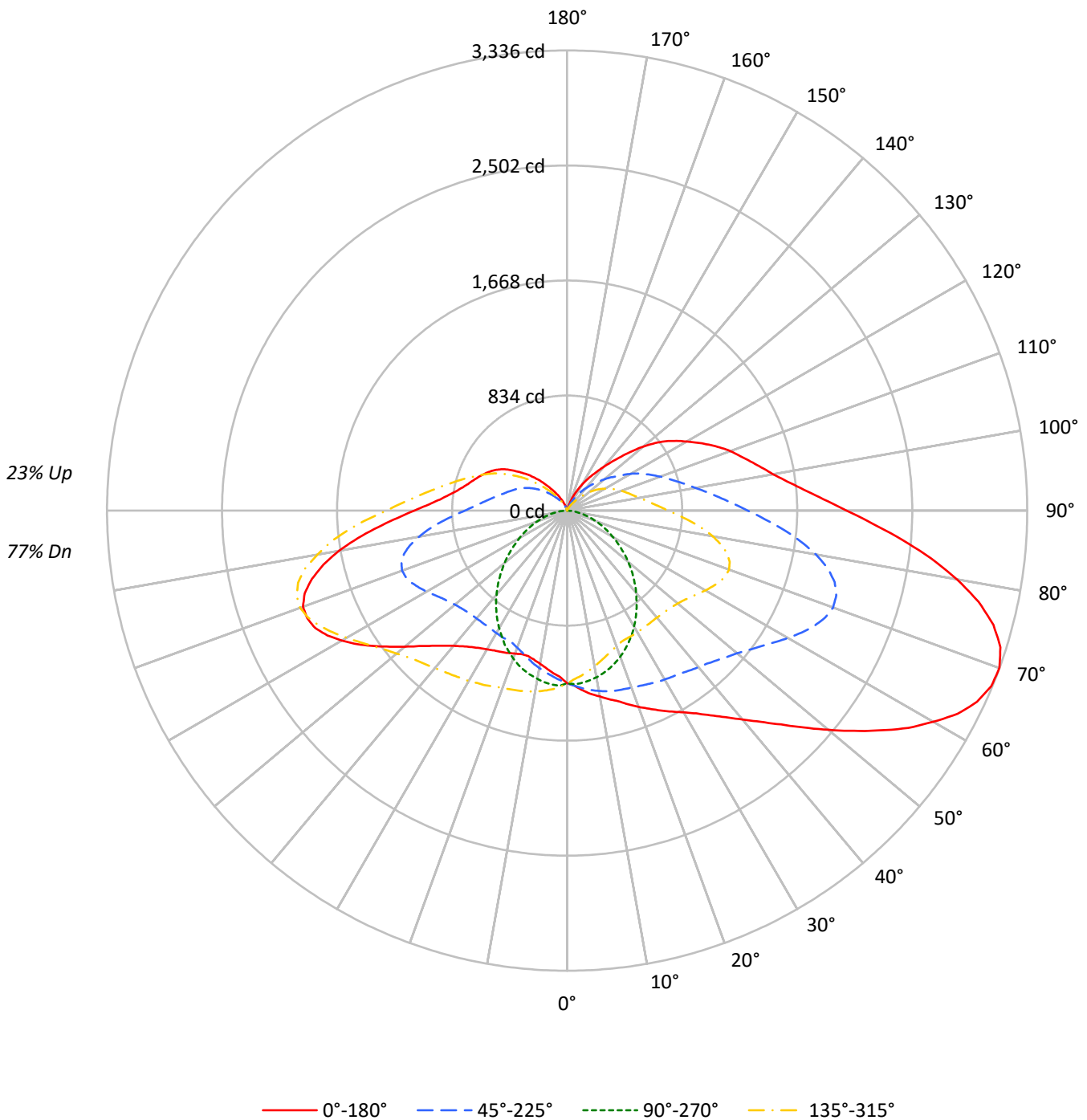
Input Watts (W): 75.28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	62	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	42	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°	10084	10084	10084	10084
5°	9552	10116	8616	10213
10°	9176	9997	7562	10095
15°	8944	9820	6824	9936
20°	8934	9575	6508	9694
25°	8990	9267	6362	9408
30°	9140	8898	6285	9027
35°	9516	8468	6344	8642
40°	10161	8011	6581	8196
45°	11125	7529	7033	7707
50°	12478	6999	7742	7218
55°	14043	6439	8649	6655
60°	15632	5876	9623	6155
65°	17031	5361	10469	5650
70°	17770	4806	10856	5116
75°	17632	4097	10557	4554
80°	16516	3324	9660	3894
85°	14799	2145	8336	3000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.1
10°-20°	346.5	3.2
20°-30°	559.4	5.2
30°-40°	759.6	7.0
40°-50°	977.8	9.0
50°-60°	1252.2	11.5
60°-70°	1531.0	14.1
70°-80°	1560.4	14.4
80°-90°	1218.4	11.2
90°-100°	849.1	7.8
100°-110°	631.6	5.8
110°-120°	469.5	4.3
120°-130°	313.5	2.9
130°-140°	168.8	1.6
140°-150°	70.3	0.6
150°-160°	20.3	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1024.8	9.4
0°-40°	1784.4	16.4
0°-60°	4014.4	37.0
0°-90°	8324.2	76.7
90°-120°	1950.2	18.0
90°-150°	2502.8	23.1
90°-180°	2525.0	23.3
0°-180°	10849.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1310	1254	1181	1266	1310	127
15°	1430	1186	1091	1200	1430	409
25°	1599	1055	1131	1071	1599	743
35°	1811	877	1208	895	1811	1146
45°	2192	678	1386	694	2192	1713
55°	2778	475	1711	491	2778	2495
65°	3280	297	2016	313	3280	3227
75°	3199	144	1916	160	3199	3344
85°	2439	30	1374	42	2439	2082
90°	2026	0	1107	2	2026	1114
95°	1723	0	925	2	1723	1367
105°	1376	0	744	2	1376	1461
115°	1131	0	646	2	1131	1124
125°	877	0	518	2	877	784
135°	554	0	339	2	554	437
145°	307	0	178	2	307	198
155°	140	0	72	2	140	68
165°	18	0	12	2	18	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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1271.7	1271.5	1271.3	1271.0	1270.8	1270.6	1270.4	1270.1	1269.9	1269.7	1269.9
5°	1309.8	1308.5	1307.1	1305.8	1304.5	1303.1	1301.8	1300.5	1299.1	1297.8	1297.4
7.5°	1341.9	1339.9	1337.9	1335.9	1333.9	1331.9	1329.9	1327.9	1325.9	1323.9	1322.6
10°	1368.0	1366.0	1364.0	1362.0	1360.0	1357.9	1355.9	1353.9	1351.9	1349.9	1347.5
12.5°	1400.1	1397.2	1394.3	1391.4	1388.5	1385.6	1382.7	1379.8	1376.9	1374.0	1370.4
15°	1430.2	1427.1	1424.0	1420.8	1417.7	1414.6	1411.5	1408.3	1405.2	1402.1	1396.5
17.5°	1472.3	1467.8	1463.4	1458.9	1454.5	1450.0	1445.6	1441.1	1436.7	1432.2	1424.0
20°	1514.4	1508.8	1503.3	1497.7	1492.1	1486.6	1481.0	1475.4	1469.9	1464.3	1453.4
22.5°	1554.5	1548.0	1541.6	1535.1	1528.7	1522.2	1515.8	1509.3	1502.9	1496.4	1483.0
25°	1598.7	1591.3	1584.0	1576.6	1569.3	1561.9	1554.6	1547.2	1539.9	1532.5	1516.4
27.5°	1642.8	1634.3	1625.9	1617.4	1608.9	1600.5	1592.0	1583.5	1575.1	1566.6	1548.3
30°	1688.9	1679.5	1670.2	1660.8	1651.5	1642.1	1632.8	1623.4	1614.1	1604.7	1583.5
32.5°	1743.1	1732.4	1721.7	1711.0	1700.3	1689.6	1678.9	1668.2	1657.5	1646.8	1622.3
35°	1811.3	1797.9	1784.5	1771.2	1757.8	1744.4	1731.0	1717.7	1704.3	1690.9	1663.0
37.5°	1887.5	1871.9	1856.3	1840.7	1825.1	1809.5	1793.9	1778.3	1762.7	1747.1	1715.2
40°	1975.8	1957.7	1939.7	1921.6	1903.6	1885.5	1867.5	1849.4	1831.4	1813.3	1776.5
42.5°	2076.0	2055.3	2034.6	2013.8	1993.1	1972.4	1951.7	1930.9	1910.2	1889.5	1846.7
45°	2192.4	2168.8	2145.2	2121.5	2097.9	2074.3	2050.7	2027.0	2003.4	1979.8	1930.3
47.5°	2326.8	2299.6	2272.4	2245.2	2218.0	2190.9	2163.7	2136.5	2109.3	2082.1	2025.3
50°	2473.2	2442.4	2411.7	2380.9	2350.2	2319.4	2288.7	2257.9	2227.2	2196.4	2131.1
52.5°	2623.6	2590.4	2557.2	2524.0	2490.8	2457.6	2424.4	2391.2	2358.0	2324.8	2250.8
55°	2778.1	2743.1	2708.1	2673.1	2638.1	2603.2	2568.2	2533.2	2498.2	2463.2	2380.1
57.5°	2932.5	2895.7	2859.0	2822.2	2785.4	2748.7	2711.9	2675.1	2638.4	2601.6	2510.2
60°	3062.9	3026.8	2990.7	2954.6	2918.5	2882.4	2846.3	2810.2	2774.1	2738.0	2639.0
62.5°	3191.3	3154.5	3117.7	3081.0	3044.2	3007.4	2970.6	2933.9	2897.1	2860.3	2755.3
65°	3279.6	3243.9	3208.3	3172.6	3136.9	3101.3	3065.6	3029.9	2994.3	2958.6	2849.6
67.5°	3327.7	3294.3	3260.8	3227.4	3194.0	3160.5	3127.1	3093.7	3060.2	3026.8	2915.6
70°	3335.7	3303.8	3272.0	3240.1	3208.2	3176.4	3144.5	3112.6	3080.8	3048.9	2938.1
72.5°	3293.6	3263.3	3233.0	3202.7	3172.4	3142.0	3111.7	3081.4	3051.1	3020.8	2912.5
75°	3199.3	3170.6	3141.8	3113.1	3084.3	3055.6	3026.8	2998.1	2969.3	2940.6	2837.0
77.5°	3054.9	3027.3	2999.6	2972.0	2944.4	2916.7	2889.1	2861.5	2833.8	2806.2	2709.5
80°	2870.4	2844.3	2818.2	2792.2	2766.1	2740.0	2713.9	2687.9	2661.8	2635.7	2546.3
82.5°	2661.8	2637.3	2612.8	2588.2	2563.7	2539.2	2514.7	2490.1	2465.6	2441.1	2359.5
85°	2439.1	2415.9	2392.7	2369.6	2346.4	2323.2	2300.0	2276.9	2253.7	2230.5	2157.4
87.5°	2220.5	2198.9	2177.3	2155.6	2134.0	2112.4	2090.8	2069.1	2047.5	2025.9	1960.2
90°	2025.9	2005.2	1984.5	1963.7	1943.0	1922.3	1901.6	1880.8	1860.1	1839.4	1780.3
92.5°	1859.4	1840.2	1821.1	1801.9	1782.7	1763.6	1744.4	1725.2	1706.1	1686.9	1632.7
95°	1723.0	1704.5	1686.0	1667.5	1649.0	1630.5	1612.0	1593.5	1575.0	1556.5	1506.4
97.5°	1608.7	1591.1	1573.5	1555.9	1538.3	1520.6	1503.0	1485.4	1467.8	1450.2	1402.5
100°	1516.4	1499.0	1481.6	1464.3	1446.9	1429.5	1412.1	1394.8	1377.4	1360.0	1313.9
102.5°	1442.2	1425.0	1407.9	1390.7	1373.6	1356.4	1339.3	1322.1	1305.0	1287.8	1242.6
105°	1376.0	1359.1	1342.1	1325.2	1308.3	1291.3	1274.4	1257.5	1240.5	1223.6	1178.8
107.5°	1315.8	1298.9	1281.9	1265.0	1248.1	1231.1	1214.2	1197.3	1180.3	1163.4	1119.5
110°	1259.7	1242.5	1225.4	1208.2	1191.0	1173.9	1156.7	1139.5	1122.4	1105.2	1062.2



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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°	1197.5	1180.6	1163.6	1146.7	1129.7	1112.8	1095.8	1078.9	1061.9	1045.0	1003.3
115°	1131.3	1114.6	1097.9	1081.2	1064.5	1047.7	1031.0	1014.3	997.6	980.9	941.4
117.5°	1065.1	1049.3	1033.5	1017.6	1001.8	986.0	970.2	954.3	938.5	922.7	884.8
120°	1000.9	986.0	971.0	956.1	941.2	926.2	911.3	896.4	881.4	866.5	829.5
122.5°	940.7	926.4	912.2	897.9	883.7	869.4	855.2	840.9	826.7	812.4	775.4
125°	876.6	862.6	848.5	834.5	820.4	806.4	792.3	778.3	764.2	750.2	714.8
127.5°	804.3	790.7	777.1	763.5	749.9	736.4	722.8	709.2	695.6	682.0	649.9
130°	722.1	709.2	696.3	683.3	670.4	657.5	644.6	631.6	618.7	605.8	577.7
132.5°	637.9	626.8	615.6	604.5	593.3	582.2	571.0	559.9	548.7	537.6	512.6
135°	553.6	544.5	535.3	526.2	517.1	507.9	498.8	489.7	480.5	471.4	450.0
137.5°	479.4	472.0	464.7	457.3	450.0	442.6	435.3	427.9	420.6	413.2	394.5
140°	415.2	408.7	402.3	395.8	389.3	382.9	376.4	369.9	363.5	357.0	341.0
142.5°	357.0	351.7	346.3	341.0	335.6	330.3	324.9	319.6	314.2	308.9	294.9
145°	306.9	302.4	298.0	293.5	289.1	284.6	280.2	275.7	271.3	266.8	254.3
147.5°	262.8	258.8	254.8	250.8	246.8	242.7	238.7	234.7	230.7	226.7	215.6
150°	218.6	215.0	211.5	207.9	204.3	200.8	197.2	193.6	190.1	186.5	176.9
152.5°	178.5	175.4	172.3	169.1	166.0	162.9	159.8	156.6	153.5	150.4	142.2
155°	140.4	137.7	135.0	132.4	129.7	127.0	124.3	121.7	119.0	116.3	109.2
157.5°	104.3	102.1	99.8	97.6	95.4	93.1	90.9	88.7	86.4	84.2	78.2
160°	70.2	68.4	66.6	64.9	63.1	61.3	59.5	57.8	56.0	54.2	49.7
162.5°	42.1	40.5	39.0	37.4	35.9	34.3	32.8	31.2	29.7	28.1	25.4
165°	18.1	17.2	16.3	15.4	14.5	13.6	12.7	11.8	10.9	10.0	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



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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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1270.1	1270.4	1270.6	1270.8	1271.0	1271.3	1271.5	1271.7	1269.7	1267.7	1265.7
5°	1296.9	1296.5	1296.0	1295.6	1295.1	1294.7	1294.2	1293.8	1290.2	1286.7	1283.1
7.5°	1321.2	1319.9	1318.5	1317.2	1315.8	1314.5	1313.1	1311.8	1306.5	1301.1	1295.8
10°	1345.0	1342.6	1340.1	1337.7	1335.2	1332.8	1330.3	1327.9	1320.8	1313.6	1306.5
12.5°	1366.9	1363.3	1359.7	1356.2	1352.6	1349.0	1345.5	1341.9	1332.8	1323.6	1314.5
15°	1390.9	1385.4	1379.8	1374.2	1368.6	1363.1	1357.5	1351.9	1340.8	1329.6	1318.5
17.5°	1415.7	1407.5	1399.2	1391.0	1382.7	1374.5	1366.2	1358.0	1345.1	1332.1	1319.2
20°	1442.5	1431.5	1420.6	1409.7	1398.8	1387.8	1376.9	1366.0	1350.4	1334.8	1319.2
22.5°	1469.6	1456.3	1442.9	1429.5	1416.1	1402.8	1389.4	1376.0	1357.3	1338.6	1319.8
25°	1500.4	1484.3	1468.3	1452.2	1436.2	1420.1	1404.1	1388.0	1365.9	1343.9	1321.8
27.5°	1530.0	1511.8	1493.5	1475.2	1456.9	1438.7	1420.4	1402.1	1375.8	1349.5	1323.2
30°	1562.3	1541.2	1520.0	1498.8	1477.6	1456.5	1435.3	1414.1	1383.8	1353.5	1323.2
32.5°	1597.8	1573.3	1548.8	1524.2	1499.7	1475.2	1450.7	1426.2	1391.9	1357.6	1323.2
35°	1635.2	1607.3	1579.5	1551.6	1523.8	1495.9	1468.1	1440.2	1401.6	1363.1	1324.5
37.5°	1683.4	1651.5	1619.6	1587.8	1555.9	1524.0	1492.2	1460.3	1417.1	1373.8	1330.6
40°	1739.7	1703.0	1666.2	1629.4	1592.6	1555.9	1519.1	1482.3	1434.6	1386.9	1339.2
42.5°	1803.9	1761.1	1718.3	1675.6	1632.8	1590.0	1547.2	1504.4	1451.8	1399.2	1346.6
45°	1880.8	1831.4	1781.9	1732.4	1682.9	1633.5	1584.0	1534.5	1476.3	1418.1	1360.0
47.5°	1968.4	1911.6	1854.8	1797.9	1741.1	1684.3	1627.4	1570.6	1506.4	1442.2	1378.0
50°	2065.8	2000.5	1935.2	1869.9	1804.6	1739.3	1674.0	1608.7	1538.0	1467.4	1396.7
52.5°	2176.8	2102.8	2028.8	1954.8	1880.8	1806.8	1732.8	1658.8	1581.0	1503.2	1425.5
55°	2296.9	2213.8	2130.7	2047.5	1964.4	1881.3	1798.1	1715.0	1629.2	1543.4	1457.6
57.5°	2418.8	2327.5	2236.1	2144.7	2053.3	1962.0	1870.6	1779.2	1684.7	1590.2	1495.7
60°	2540.1	2441.1	2342.2	2243.2	2144.3	2045.3	1946.4	1847.4	1744.2	1641.0	1537.8
62.5°	2650.4	2545.4	2440.4	2335.5	2230.5	2125.5	2020.6	1915.6	1803.5	1691.4	1579.3
65°	2740.6	2631.7	2522.7	2413.7	2304.7	2195.8	2086.8	1977.8	1857.4	1737.1	1616.7
67.5°	2804.4	2693.2	2582.0	2470.7	2359.5	2248.3	2137.1	2025.9	1898.4	1770.9	1643.5
70°	2827.4	2716.6	2605.8	2495.1	2384.3	2273.5	2162.8	2052.0	1919.6	1787.2	1654.8
72.5°	2804.2	2695.9	2587.6	2479.2	2370.9	2262.6	2154.3	2046.0	1911.6	1777.2	1642.8
75°	2733.3	2629.7	2526.1	2422.4	2318.8	2215.2	2111.5	2007.9	1874.4	1740.9	1607.4
77.5°	2612.7	2516.0	2419.3	2322.5	2225.8	2129.1	2032.3	1935.6	1806.1	1676.6	1547.1
80°	2456.9	2367.6	2278.2	2188.8	2099.4	2010.1	1920.7	1831.3	1708.5	1585.7	1462.9
82.5°	2278.0	2196.4	2114.8	2033.3	1951.7	1870.1	1788.6	1707.0	1593.3	1479.7	1366.0
85°	2084.3	2011.2	1938.1	1865.0	1791.9	1718.8	1645.7	1572.6	1468.3	1364.0	1259.7
87.5°	1894.4	1828.7	1762.9	1697.2	1631.4	1565.7	1499.9	1434.2	1339.9	1245.6	1151.4
90°	1721.3	1662.2	1603.1	1544.1	1485.0	1425.9	1366.9	1307.8	1222.0	1136.2	1050.4
92.5°	1578.6	1524.4	1470.3	1416.1	1362.0	1307.8	1253.7	1199.5	1120.8	1042.1	963.5
95°	1456.2	1406.1	1355.9	1305.8	1255.6	1205.5	1155.3	1105.2	1032.8	960.3	887.9
97.5°	1354.8	1307.1	1259.4	1211.8	1164.1	1116.4	1068.7	1021.0	953.9	886.8	819.7
100°	1267.7	1221.6	1175.5	1129.3	1083.2	1037.1	990.9	944.8	882.2	819.5	756.9
102.5°	1197.3	1152.1	1106.8	1061.6	1016.3	971.1	925.8	880.6	821.1	761.6	702.1
105°	1134.0	1089.2	1044.4	999.6	954.8	910.0	865.2	820.4	764.0	707.6	651.2
107.5°	1075.6	1031.7	987.8	943.8	899.9	856.0	812.1	768.2	714.0	659.9	605.7
110°	1019.2	976.2	933.2	890.1	847.1	804.1	761.1	718.1	666.2	614.2	562.3



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	961.7	920.0	878.3	836.7	795.0	753.3	711.7	670.0	620.3	570.6	520.9
115°	902.0	862.5	823.1	783.6	744.2	704.7	665.3	625.8	578.6	531.3	484.1
117.5°	846.9	809.0	771.1	733.3	695.4	657.5	619.6	581.7	537.1	492.5	448.0
120°	792.5	755.5	718.5	681.6	644.6	607.6	570.6	533.6	492.4	451.1	409.9
122.5°	738.4	701.4	664.4	627.4	590.4	553.4	516.4	479.4	442.4	405.4	368.4
125°	679.3	643.9	608.5	573.0	537.6	502.2	466.7	431.3	397.9	364.4	331.0
127.5°	617.8	585.7	553.6	521.5	489.4	457.3	425.2	393.1	362.1	331.1	300.2
130°	549.6	521.5	493.4	465.4	437.3	409.2	381.1	353.0	324.7	296.4	268.1
132.5°	487.7	462.7	437.7	412.8	387.8	362.8	337.9	312.9	287.3	261.6	236.0
135°	428.6	407.2	385.8	364.4	343.0	321.6	300.2	278.8	255.4	232.0	208.6
137.5°	375.8	357.0	338.3	319.6	300.9	282.1	263.4	244.7	223.5	202.4	181.2
140°	324.9	308.9	292.8	276.8	260.7	244.7	228.6	212.6	193.4	174.3	155.1
142.5°	280.8	266.8	252.7	238.7	224.6	210.6	196.5	182.5	165.3	148.2	131.0
145°	241.8	229.4	216.9	204.4	191.9	179.5	167.0	154.5	139.3	124.2	109.0
147.5°	204.4	193.3	182.1	171.0	159.8	148.7	137.5	126.4	113.5	100.5	87.6
150°	167.3	157.8	148.2	138.6	129.0	119.5	109.9	100.3	89.6	78.9	68.2
152.5°	133.9	125.7	117.4	109.2	100.9	92.7	84.4	76.2	68.0	59.7	51.5
155°	102.1	94.9	87.8	80.7	73.6	66.4	59.3	52.2	46.4	40.6	34.8
157.5°	72.2	66.2	60.2	54.1	48.1	42.1	36.1	30.1	26.8	23.4	20.1
160°	45.3	40.8	36.3	31.9	27.4	22.9	18.5	14.0	12.4	10.9	9.3
162.5°	22.7	20.1	17.4	14.7	12.0	9.4	6.7	4.0	3.6	3.1	2.7
165°	7.8	6.7	5.6	4.4	3.3	2.2	1.1	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: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1263.7	1261.7	1259.7	1257.7	1255.7	1253.7	1254.4	1255.0	1255.7	1256.4	1257.0
5°	1279.5	1276.0	1272.4	1268.8	1265.3	1261.7	1260.8	1259.9	1259.0	1258.1	1257.3
7.5°	1290.4	1285.1	1279.7	1274.4	1269.0	1263.7	1261.2	1258.8	1256.3	1253.9	1251.4
10°	1299.4	1292.2	1285.1	1278.0	1270.8	1263.7	1259.7	1255.7	1251.7	1247.7	1243.6
12.5°	1305.4	1296.2	1287.1	1278.0	1268.8	1259.7	1253.9	1248.1	1242.3	1236.5	1230.7
15°	1307.3	1296.2	1285.0	1273.9	1262.7	1251.6	1244.3	1236.9	1229.6	1222.2	1214.9
17.5°	1306.3	1293.3	1280.4	1267.5	1254.5	1241.6	1232.2	1222.9	1213.5	1204.2	1194.8
20°	1303.6	1288.0	1272.4	1256.8	1241.2	1225.6	1214.7	1203.8	1192.8	1181.9	1171.0
22.5°	1301.1	1282.4	1263.7	1244.9	1226.2	1207.5	1194.6	1181.7	1168.7	1155.8	1142.9
25°	1299.8	1277.7	1255.7	1233.6	1211.6	1189.5	1174.6	1159.6	1144.7	1129.8	1114.8
27.5°	1296.9	1270.6	1244.3	1218.0	1191.7	1165.4	1148.7	1132.0	1115.3	1098.6	1081.8
30°	1292.9	1262.5	1232.2	1201.9	1171.6	1141.3	1122.4	1103.4	1084.5	1065.5	1046.6
32.5°	1288.9	1254.6	1220.3	1185.9	1151.6	1117.3	1095.9	1074.5	1053.1	1031.7	1010.3
35°	1286.0	1247.4	1208.9	1170.3	1131.8	1093.2	1069.1	1045.1	1021.0	996.9	972.9
37.5°	1287.3	1244.1	1200.8	1157.6	1114.3	1071.1	1043.9	1016.7	989.5	962.3	935.2
40°	1291.5	1243.9	1196.2	1148.5	1100.8	1053.1	1022.6	992.0	961.5	931.0	900.4
42.5°	1294.0	1241.4	1188.8	1136.2	1083.6	1031.0	997.3	963.7	930.0	896.4	862.7
45°	1301.8	1243.6	1185.4	1127.3	1069.1	1010.9	973.9	936.9	899.9	862.9	826.0
47.5°	1313.8	1249.7	1185.5	1121.3	1057.1	992.9	952.3	911.8	871.2	830.6	790.1
50°	1326.1	1255.4	1184.8	1114.1	1043.5	972.8	928.7	884.6	840.4	796.3	752.2
52.5°	1347.7	1269.9	1192.1	1114.4	1036.6	958.8	911.1	863.4	815.7	768.0	720.3
55°	1371.8	1285.9	1200.1	1114.3	1028.5	942.7	890.8	838.9	786.9	735.0	683.1
57.5°	1401.2	1306.7	1212.2	1117.7	1023.2	928.7	873.2	817.7	762.2	706.7	651.3
60°	1434.6	1331.5	1228.3	1125.1	1021.9	918.7	859.0	799.2	739.5	679.8	620.0
62.5°	1467.2	1355.0	1242.9	1130.8	1018.7	906.6	843.8	780.9	718.1	655.2	592.4
65°	1496.4	1376.0	1255.7	1135.3	1015.0	894.6	828.2	761.8	695.4	629.0	562.5
67.5°	1516.0	1388.5	1261.0	1133.6	1006.1	878.6	809.5	740.4	671.3	602.2	533.1
70°	1522.4	1390.1	1257.7	1125.3	992.9	860.5	789.2	717.9	646.5	575.2	503.9
72.5°	1508.4	1374.0	1239.6	1105.2	970.8	836.4	763.5	690.6	617.8	544.9	472.0
75°	1473.9	1340.3	1206.8	1073.3	939.8	806.3	732.8	659.2	585.7	512.1	438.6
77.5°	1417.6	1288.2	1158.7	1029.2	899.7	770.2	697.1	624.0	550.9	477.8	404.7
80°	1340.1	1217.3	1094.5	971.7	848.9	726.1	654.6	583.0	511.5	439.9	368.4
82.5°	1252.3	1138.7	1025.0	911.3	797.7	684.0	614.0	544.0	474.1	404.1	334.1
85°	1155.4	1051.0	946.7	842.4	738.1	633.8	566.7	499.6	432.6	365.5	298.4
87.5°	1057.1	962.8	868.5	774.3	680.0	585.7	521.5	457.3	393.1	328.9	264.8
90°	964.6	878.8	793.0	707.2	621.4	535.6	476.1	416.6	357.1	297.6	238.0
92.5°	884.8	806.1	727.4	648.8	570.1	491.4	436.8	382.2	327.6	273.0	218.4
95°	815.5	743.0	670.6	598.2	525.7	453.3	402.9	352.6	302.2	251.8	201.5
97.5°	752.6	685.6	618.5	551.4	484.3	417.2	370.8	324.5	278.1	231.8	185.4
100°	694.3	631.6	569.0	506.4	443.7	381.1	338.8	296.4	254.1	211.7	169.4
102.5°	642.6	583.0	523.5	464.0	404.5	345.0	306.7	268.3	230.0	191.7	153.3
105°	594.8	538.5	482.1	425.7	369.3	312.9	278.1	243.4	208.6	173.8	139.1
107.5°	551.6	497.4	443.3	389.1	335.0	280.8	249.6	218.4	187.2	156.0	124.8
110°	510.4	458.4	406.5	354.6	302.6	250.7	222.8	195.0	167.1	139.3	111.4



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	471.2	421.4	371.7	322.0	272.3	222.6	197.9	173.1	148.4	123.7	98.9
115°	436.8	389.6	342.3	295.1	247.8	200.6	178.3	156.0	133.7	111.4	89.2
117.5°	403.4	358.8	314.2	269.7	225.1	180.5	160.4	140.4	120.3	100.3	80.2
120°	368.7	327.4	286.2	245.0	203.7	162.5	144.4	126.4	108.3	90.3	72.2
122.5°	331.4	294.4	257.4	220.4	183.4	146.4	130.1	113.9	97.6	81.3	65.1
125°	297.6	264.1	230.7	197.3	163.8	130.4	115.9	101.4	86.9	72.4	58.0
127.5°	269.2	238.2	207.2	176.3	145.3	114.3	101.6	88.9	76.2	63.5	50.8
130°	239.8	211.5	183.2	154.9	126.6	98.3	87.4	76.5	65.5	54.6	43.7
132.5°	210.4	184.7	159.1	133.5	107.8	82.2	73.1	63.9	54.8	45.7	36.5
135°	185.2	161.8	138.4	115.0	91.6	68.2	60.6	53.0	45.5	37.9	30.3
137.5°	160.0	138.9	117.7	96.5	75.4	54.2	48.2	42.2	36.1	30.1	24.1
140°	135.9	116.8	97.6	78.4	59.3	40.1	35.6	31.2	26.7	22.3	17.8
142.5°	113.9	96.7	79.6	62.4	45.3	28.1	25.0	21.9	18.7	15.6	12.5
145°	93.9	78.7	63.6	48.4	33.3	18.1	16.1	14.1	12.1	10.1	8.0
147.5°	74.7	61.7	48.8	35.9	22.9	10.0	8.9	7.8	6.7	5.6	4.4
150°	57.5	46.8	36.1	25.4	14.7	4.0	3.6	3.1	2.7	2.2	1.8
152.5°	43.2	35.0	26.7	18.5	10.2	2.0	1.8	1.6	1.3	1.1	0.9
155°	29.0	23.2	17.4	11.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	16.7	13.4	10.0	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	7.8	6.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.2	1.8	1.3	0.9	0.4	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: P201391

CATALOG NUMBER: 8LBLELD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1257.7	1258.4	1259.0	1259.7	1256.8	1253.9	1251.0	1248.1	1245.2	1242.3	1239.4
5°	1256.4	1255.5	1254.6	1253.7	1249.5	1245.2	1241.0	1236.7	1232.5	1228.2	1224.0
7.5°	1249.0	1246.5	1244.1	1241.6	1236.3	1230.9	1225.6	1220.2	1214.9	1209.5	1204.2
10°	1239.6	1235.6	1231.6	1227.6	1221.1	1214.7	1208.2	1201.7	1195.3	1188.8	1182.3
12.5°	1224.9	1219.1	1213.3	1207.5	1200.4	1193.2	1186.1	1179.0	1171.8	1164.7	1157.6
15°	1207.5	1200.2	1192.8	1185.5	1177.7	1169.9	1162.1	1154.3	1146.4	1138.6	1130.8
17.5°	1185.5	1176.1	1166.8	1157.4	1149.4	1141.4	1133.3	1125.3	1117.3	1109.3	1101.2
20°	1160.1	1149.1	1138.2	1127.3	1119.1	1110.8	1102.6	1094.3	1086.1	1077.8	1069.6
22.5°	1130.0	1117.0	1104.1	1091.2	1083.0	1074.7	1066.5	1058.2	1050.0	1041.7	1033.5
25°	1099.9	1085.0	1070.0	1055.1	1047.1	1039.1	1031.0	1023.0	1015.0	1007.0	998.9
27.5°	1065.1	1048.4	1031.7	1015.0	1007.4	999.8	992.3	984.7	977.1	969.5	962.0
30°	1027.6	1008.7	989.7	970.8	963.9	957.0	950.1	943.2	936.2	929.3	922.4
32.5°	988.9	967.5	946.1	924.7	918.7	912.7	906.6	900.6	894.6	888.6	882.5
35°	948.8	924.7	900.7	876.6	872.4	868.1	863.9	859.6	855.4	851.1	846.9
37.5°	908.0	880.8	853.6	826.4	824.2	821.9	819.7	817.5	815.2	813.0	810.8
40°	869.9	839.4	808.8	778.3	778.7	779.2	779.6	780.1	780.5	781.0	781.4
42.5°	829.1	795.4	761.8	728.1	731.4	734.8	738.1	741.5	744.8	748.2	751.5
45°	789.0	752.0	715.0	678.0	684.5	690.9	697.4	703.8	710.3	716.7	723.2
47.5°	749.5	708.9	668.4	627.8	637.2	646.5	655.9	665.3	674.6	684.0	693.4
50°	708.1	663.9	619.8	575.7	588.4	601.1	613.8	626.5	639.2	651.9	664.6
52.5°	672.6	624.9	577.2	529.5	545.1	560.7	576.3	591.9	607.6	623.2	638.8
55°	631.2	579.2	527.3	475.4	494.8	514.2	533.6	553.0	572.3	591.7	611.1
57.5°	595.8	540.3	484.8	429.3	451.8	474.3	496.8	519.3	541.8	564.3	586.8
60°	560.3	500.6	440.8	381.1	407.0	432.8	458.7	484.5	510.4	536.2	562.1
62.5°	529.5	466.7	403.8	341.0	369.3	397.6	425.9	454.2	482.5	510.8	539.1
65°	496.1	429.7	363.3	296.9	328.1	359.3	390.5	421.7	452.9	484.1	515.3
67.5°	464.0	394.9	325.8	256.7	290.1	323.6	357.0	390.4	423.9	457.3	490.7
70°	432.6	361.2	289.9	218.6	253.8	289.0	324.3	359.5	394.7	429.9	465.2
72.5°	399.1	326.3	253.4	180.5	217.1	253.6	290.2	326.7	363.3	399.8	436.4
75°	365.0	291.5	217.9	144.4	181.4	218.4	255.4	292.4	329.4	366.4	403.4
77.5°	331.6	258.5	185.4	112.3	149.5	186.7	224.0	261.2	298.4	335.6	372.9
80°	296.8	225.3	153.7	82.2	119.2	156.2	193.2	230.2	267.2	304.2	341.2
82.5°	264.1	194.2	124.2	54.2	90.5	126.8	163.2	199.5	235.8	272.1	308.5
85°	231.3	164.3	97.2	30.1	65.5	101.0	136.4	171.8	207.3	242.7	278.1
87.5°	200.6	136.4	72.2	8.0	42.1	76.2	110.3	144.4	178.5	212.6	246.7
90°	178.5	119.0	59.5	0.0	31.6	63.3	94.9	126.6	158.2	189.9	221.5
92.5°	163.8	109.2	54.6	0.0	29.6	59.3	88.9	118.6	148.2	177.9	207.5
95°	151.1	100.7	50.4	0.0	27.4	54.8	82.2	109.6	137.1	164.5	191.9
97.5°	139.1	92.7	46.4	0.0	25.4	50.8	76.2	101.6	127.1	152.5	177.9
100°	127.0	84.7	42.3	0.0	23.4	46.8	70.2	93.6	117.0	140.4	163.8
102.5°	115.0	76.7	38.3	0.0	21.6	43.2	64.9	86.5	108.1	129.7	151.4
105°	104.3	69.5	34.8	0.0	19.8	39.7	59.5	79.3	99.2	119.0	138.8
107.5°	93.6	62.4	31.2	0.0	18.1	36.1	54.2	72.2	90.3	108.3	126.4
110°	83.6	55.7	27.9	0.0	16.5	33.0	49.5	66.0	82.4	98.9	115.4



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	74.2	49.5	24.7	0.0	14.9	29.9	44.8	59.7	74.7	89.6	104.5
115°	66.9	44.6	22.3	0.0	13.4	26.8	40.1	53.5	66.9	80.3	93.6
117.5°	60.2	40.1	20.1	0.0	11.8	23.6	35.4	47.2	59.1	70.9	82.7
120°	54.2	36.1	18.1	0.0	10.5	21.0	31.4	41.9	52.4	62.9	73.3
122.5°	48.8	32.5	16.3	0.0	9.4	18.7	28.1	37.4	46.8	56.1	65.5
125°	43.5	29.0	14.5	0.0	8.0	16.0	24.1	32.1	40.1	48.1	56.2
127.5°	38.1	25.4	12.7	0.0	6.7	13.4	20.1	26.8	33.4	40.1	46.8
130°	32.8	21.8	10.9	0.0	5.6	11.1	16.7	22.3	27.8	33.4	39.0
132.5°	27.4	18.3	9.1	0.0	4.5	8.9	13.4	17.8	22.3	26.7	31.2
135°	22.7	15.2	7.6	0.0	3.6	7.1	10.7	14.3	17.8	21.4	25.0
137.5°	18.1	12.0	6.0	0.0	2.7	5.4	8.0	10.7	13.4	16.1	18.7
140°	13.4	8.9	4.5	0.0	1.8	3.6	5.3	7.1	8.9	10.7	12.4
142.5°	9.4	6.2	3.1	0.0	1.1	2.2	3.3	4.4	5.6	6.7	7.8
145°	6.0	4.0	2.0	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7
147.5°	3.3	2.2	1.1	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
150°	1.3	0.9	0.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
152.5°	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	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: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1236.5	1233.6	1232.5	1231.4	1230.3	1229.2	1228.0	1226.9	1225.8	1224.7	1223.6
5°	1219.7	1215.5	1213.7	1211.9	1210.2	1208.4	1206.6	1204.8	1203.1	1201.3	1199.5
7.5°	1198.8	1193.5	1191.3	1189.0	1186.8	1184.6	1182.3	1180.1	1177.9	1175.6	1173.4
10°	1175.9	1169.4	1166.9	1164.5	1162.0	1159.6	1157.1	1154.7	1152.2	1149.8	1147.3
12.5°	1150.4	1143.3	1140.4	1137.5	1134.6	1131.7	1128.9	1126.0	1123.1	1120.2	1117.3
15°	1123.0	1115.2	1112.5	1109.9	1107.2	1104.5	1101.9	1099.2	1096.5	1093.9	1091.2
17.5°	1093.2	1085.2	1083.2	1081.2	1079.2	1077.2	1075.1	1073.1	1071.1	1069.1	1067.1
20°	1061.3	1053.1	1052.2	1051.3	1050.4	1049.5	1048.6	1047.7	1046.8	1045.9	1045.0
22.5°	1025.2	1017.0	1018.3	1019.7	1021.0	1022.3	1023.7	1025.0	1026.3	1027.7	1029.0
25°	990.9	982.9	987.4	991.8	996.3	1000.7	1005.2	1009.6	1014.1	1018.5	1023.0
27.5°	954.4	946.8	955.0	963.3	971.5	979.8	988.0	996.3	1004.5	1012.8	1021.0
30°	915.5	908.6	920.9	933.1	945.4	957.7	969.9	982.2	994.5	1006.7	1019.0
32.5°	876.5	870.5	886.6	902.6	918.7	934.7	950.8	966.8	982.9	998.9	1015.0
35°	842.6	838.4	857.8	877.2	896.6	916.0	935.4	954.8	974.2	993.6	1013.0
37.5°	808.5	806.3	829.0	851.8	874.5	897.2	920.0	942.7	965.4	988.2	1010.9
40°	781.9	782.3	807.9	833.6	859.2	884.8	910.5	936.1	961.7	987.4	1013.0
42.5°	754.9	758.2	786.7	815.3	843.8	872.3	900.9	929.4	957.9	986.5	1015.0
45°	729.6	736.1	768.0	799.9	831.7	863.6	895.5	927.4	959.2	991.1	1023.0
47.5°	702.7	712.1	747.8	783.4	819.1	854.7	890.4	926.0	961.7	997.3	1033.0
50°	677.3	690.0	729.7	769.4	809.0	848.7	888.4	928.1	967.7	1007.4	1047.1
52.5°	654.4	670.0	714.1	758.2	802.4	846.5	890.6	934.7	978.9	1023.0	1067.1
55°	630.5	649.9	699.2	748.4	797.7	846.9	896.2	945.4	994.7	1043.9	1093.2
57.5°	609.3	631.8	686.4	741.0	795.6	850.2	904.9	959.5	1014.1	1068.7	1123.3
60°	587.9	613.8	674.2	734.6	795.0	855.4	915.8	976.2	1036.6	1097.0	1157.4
62.5°	567.4	595.7	661.7	727.7	793.6	859.6	925.6	991.6	1057.5	1123.5	1189.5
65°	546.5	577.7	649.2	720.8	792.3	863.9	935.4	1007.0	1078.5	1150.1	1221.6
67.5°	524.2	557.6	633.6	709.6	785.6	861.6	937.6	1013.6	1089.6	1165.6	1241.6
70°	500.4	535.6	614.9	694.3	773.6	852.9	932.3	1011.6	1090.9	1170.3	1249.6
72.5°	472.9	509.5	590.2	670.9	751.5	832.2	912.9	993.6	1074.2	1154.9	1235.6
75°	440.4	477.4	557.9	638.3	718.8	799.2	879.7	960.1	1040.6	1121.0	1201.5
77.5°	410.1	447.3	524.6	602.0	679.3	756.6	834.0	911.3	988.6	1066.0	1143.3
80°	378.2	415.2	488.1	561.0	633.8	706.7	779.6	852.5	925.3	998.2	1071.1
82.5°	344.8	381.1	448.4	515.7	583.0	650.3	717.7	785.0	852.3	919.6	986.9
85°	313.6	349.0	410.1	471.1	532.2	593.3	654.3	715.4	776.5	837.5	898.6
87.5°	280.8	314.9	369.7	424.6	479.4	534.2	589.1	643.9	698.7	753.6	808.4
90°	253.2	284.8	334.3	383.8	433.2	482.7	532.2	581.7	631.1	680.6	730.1
92.5°	237.2	266.8	311.4	355.9	400.5	445.1	489.6	534.2	578.8	623.3	667.9
95°	219.3	246.7	287.7	328.7	369.7	410.7	451.8	492.8	533.8	574.8	615.8
97.5°	203.3	228.7	266.8	304.9	343.0	381.1	419.3	457.4	495.5	533.6	571.7
100°	187.2	210.6	246.5	282.4	318.3	354.2	390.0	425.9	461.8	497.7	533.6
102.5°	173.0	194.6	228.2	261.9	295.5	329.2	362.8	396.5	430.1	463.8	497.4
105°	158.7	178.5	210.8	243.1	275.5	307.8	340.1	372.4	404.8	437.1	469.4
107.5°	144.4	162.5	193.7	224.9	256.1	287.3	318.5	349.7	380.9	412.1	443.3
110°	131.9	148.4	178.5	208.6	238.7	268.8	298.8	328.9	359.0	389.1	419.2



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	119.5	134.4	163.4	192.4	221.3	250.3	279.3	308.3	337.2	366.2	395.2
115°	107.0	120.4	148.0	175.7	203.3	230.9	258.6	286.2	313.8	341.5	369.1
117.5°	94.5	106.3	132.6	158.9	185.2	211.5	237.8	264.1	290.4	316.7	343.0
120°	83.8	94.3	119.0	143.8	168.5	193.2	218.0	242.7	267.4	292.2	316.9
122.5°	74.8	84.2	107.2	130.1	153.1	176.0	199.0	221.9	244.9	267.8	290.8
125°	64.2	72.2	93.6	115.0	136.4	157.8	179.2	200.6	222.0	243.4	264.8
127.5°	53.5	60.2	79.8	99.4	119.0	138.6	158.3	177.9	197.5	217.1	236.7
130°	44.5	50.1	67.0	84.0	100.9	117.9	134.8	151.8	168.7	185.7	202.6
132.5°	35.6	40.1	54.4	68.6	82.9	97.2	111.4	125.7	140.0	154.2	168.5
135°	28.5	32.1	44.6	57.1	69.5	82.0	94.5	107.0	119.4	131.9	144.4
137.5°	21.4	24.1	34.6	45.0	55.5	66.0	76.4	86.9	97.4	107.8	118.3
140°	14.2	16.0	24.9	33.8	42.8	51.7	60.6	69.5	78.5	87.4	96.3
142.5°	8.9	10.0	17.4	24.7	32.1	39.4	46.8	54.1	61.5	68.8	76.2
145°	5.3	6.0	11.8	17.6	23.4	29.2	35.0	40.8	46.6	52.4	58.2
147.5°	3.6	4.0	8.5	12.9	17.4	21.8	26.3	30.7	35.2	39.6	44.1
150°	1.8	2.0	5.3	8.7	12.0	15.4	18.7	22.1	25.4	28.8	32.1
152.5°	0.0	0.0	2.5	4.9	7.4	9.8	12.3	14.7	17.2	19.6	22.1
155°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	9.3	10.9	12.4	14.0
157.5°	0.0	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0
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: P201391

CATALOG NUMBER: 8LBLELD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1222.5	1221.4	1220.2	1219.1	1218.0	1216.9	1215.7	1214.6	1213.5	1212.6	1211.7
5°	1197.9	1196.4	1194.8	1193.3	1191.7	1190.2	1188.6	1187.1	1185.5	1185.0	1184.6
7.5°	1171.6	1169.8	1168.1	1166.3	1164.5	1162.7	1161.0	1159.2	1157.4	1157.0	1156.5
10°	1145.5	1143.7	1142.0	1140.2	1138.4	1136.6	1134.9	1133.1	1131.3	1130.9	1130.4
12.5°	1116.2	1115.1	1113.9	1112.8	1111.7	1110.6	1109.4	1108.3	1107.2	1107.2	1107.2
15°	1090.8	1090.3	1089.9	1089.4	1089.0	1088.5	1088.1	1087.6	1087.2	1087.6	1088.1
17.5°	1068.4	1069.8	1071.1	1072.4	1073.8	1075.1	1076.4	1077.8	1079.1	1080.4	1081.8
20°	1049.0	1053.0	1057.1	1061.1	1065.1	1069.1	1073.2	1077.2	1081.2	1083.6	1086.1
22.5°	1035.9	1042.8	1049.7	1056.6	1063.6	1070.5	1077.4	1084.3	1091.2	1094.1	1097.0
25°	1031.7	1040.4	1049.1	1057.8	1066.4	1075.1	1083.8	1092.5	1101.2	1104.5	1107.9
27.5°	1030.8	1040.6	1050.4	1060.2	1070.0	1079.8	1089.6	1099.4	1109.2	1113.0	1116.8
30°	1030.1	1041.3	1052.4	1063.6	1074.7	1085.9	1097.0	1108.2	1119.3	1124.0	1128.7
32.5°	1027.9	1040.8	1053.8	1066.7	1079.6	1092.5	1105.5	1118.4	1131.3	1136.9	1142.4
35°	1027.9	1042.8	1057.8	1072.7	1087.6	1102.5	1117.5	1132.4	1147.3	1154.0	1160.7
37.5°	1028.3	1045.7	1063.1	1080.5	1097.8	1115.2	1132.6	1150.0	1167.4	1175.4	1183.4
40°	1033.1	1053.1	1073.2	1093.2	1113.3	1133.3	1153.4	1173.4	1193.5	1203.1	1212.7
42.5°	1038.6	1062.2	1085.9	1109.5	1133.1	1156.7	1180.4	1204.0	1227.6	1238.7	1249.9
45°	1050.4	1077.8	1105.2	1132.6	1160.1	1187.5	1214.9	1242.3	1269.7	1282.6	1295.5
47.5°	1064.9	1096.7	1128.6	1160.5	1192.3	1224.2	1256.1	1287.9	1319.8	1334.7	1349.7
50°	1084.1	1121.1	1158.1	1195.1	1232.0	1269.0	1306.0	1343.0	1380.0	1397.2	1414.3
52.5°	1109.2	1151.3	1193.5	1235.6	1277.7	1319.8	1362.0	1404.1	1446.2	1465.6	1485.0
55°	1140.9	1188.6	1236.3	1284.0	1331.6	1379.3	1427.0	1474.7	1522.4	1543.4	1564.3
57.5°	1176.3	1229.4	1282.4	1335.5	1388.5	1441.6	1494.6	1547.7	1600.7	1623.2	1645.7
60°	1215.3	1273.3	1331.2	1389.2	1447.1	1505.1	1563.0	1621.0	1678.9	1701.9	1724.8
62.5°	1251.9	1314.3	1376.7	1439.1	1501.5	1563.9	1626.3	1688.7	1751.1	1774.3	1797.5
65°	1286.7	1351.8	1416.8	1481.9	1547.0	1612.1	1677.1	1742.2	1807.3	1830.5	1853.7
67.5°	1308.5	1375.3	1442.2	1509.1	1575.9	1642.8	1709.7	1776.5	1843.4	1865.2	1887.1
70°	1316.2	1382.9	1449.5	1516.2	1582.8	1649.5	1716.1	1782.8	1849.4	1870.3	1891.3
72.5°	1300.9	1366.2	1431.5	1496.8	1562.1	1627.4	1692.7	1758.0	1823.3	1842.5	1861.6
75°	1263.5	1325.4	1387.4	1449.3	1511.3	1573.2	1635.2	1697.1	1759.1	1776.5	1793.9
77.5°	1201.0	1258.7	1316.5	1374.2	1431.9	1489.6	1547.4	1605.1	1662.8	1679.1	1695.4
80°	1123.3	1175.4	1227.6	1279.7	1331.9	1384.0	1436.2	1488.3	1540.5	1555.9	1571.3
82.5°	1033.5	1080.1	1126.6	1173.2	1219.8	1266.4	1312.9	1359.5	1406.1	1419.9	1433.7
85°	939.8	981.1	1022.3	1063.5	1104.8	1146.0	1187.2	1228.5	1269.7	1281.3	1292.9
87.5°	844.7	881.0	917.4	953.7	990.0	1026.3	1062.7	1099.0	1135.3	1146.0	1156.7
90°	762.0	793.9	825.7	857.6	889.5	921.4	953.2	985.1	1017.0	1027.0	1037.0
92.5°	696.4	725.0	753.5	782.0	810.6	839.1	867.6	896.2	924.7	933.4	942.1
95°	641.9	668.0	694.0	720.1	746.2	772.3	798.3	824.4	850.5	858.7	867.0
97.5°	595.8	619.8	643.9	668.0	692.0	716.1	740.2	764.2	788.3	796.8	805.2
100°	557.0	580.4	603.8	627.2	650.6	674.0	697.4	720.8	744.2	752.0	759.8
102.5°	520.6	543.8	567.0	590.2	613.3	636.5	659.7	682.9	706.1	713.9	721.7
105°	492.4	515.3	538.3	561.2	584.2	607.1	630.1	653.0	676.0	683.6	691.2
107.5°	466.3	489.2	512.2	535.1	558.1	581.0	604.0	626.9	649.9	657.5	665.1
110°	441.9	464.7	487.4	510.1	532.9	555.6	578.3	601.1	623.8	631.6	639.4



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	418.2	441.1	464.1	487.0	510.0	532.9	555.9	578.8	601.8	609.4	617.0
115°	392.1	415.0	438.0	460.9	483.9	506.8	529.8	552.7	575.7	583.5	591.3
117.5°	365.7	388.5	411.2	433.9	456.7	479.4	502.1	524.9	547.6	555.6	563.6
120°	339.2	361.5	383.8	406.1	428.3	450.6	472.9	495.2	517.5	525.7	534.0
122.5°	311.5	332.3	353.0	373.7	394.5	415.2	435.9	456.7	477.4	486.3	495.2
125°	284.4	304.0	323.6	343.2	362.9	382.5	402.1	421.7	441.3	449.8	458.2
127.5°	255.0	273.3	291.5	309.8	328.1	346.4	364.6	382.9	401.2	408.8	416.4
130°	220.2	237.8	255.4	273.0	290.7	308.3	325.9	343.5	361.1	368.2	375.3
132.5°	185.7	202.8	220.0	237.1	254.3	271.4	288.6	305.7	322.9	329.8	336.7
135°	160.2	176.0	191.9	207.7	223.5	239.3	255.2	271.0	286.8	292.6	298.4
137.5°	132.3	146.4	160.4	174.5	188.5	202.6	216.6	230.7	244.7	250.5	256.3
140°	107.7	119.0	130.4	141.8	153.1	164.5	175.9	187.2	198.6	204.6	210.6
142.5°	86.0	95.8	105.6	115.4	125.3	135.1	144.9	154.7	164.5	169.6	174.7
145°	66.4	74.7	82.9	91.2	99.4	107.7	115.9	124.2	132.4	137.5	142.6
147.5°	50.6	57.0	63.5	70.0	76.4	82.9	89.4	95.8	102.3	107.2	112.1
150°	37.2	42.3	47.5	52.6	57.7	62.8	68.0	73.1	78.2	82.7	87.1
152.5°	26.1	30.1	34.1	38.1	42.2	46.2	50.2	54.2	58.2	62.0	65.8
155°	16.9	19.8	22.7	25.6	28.5	31.4	34.3	37.2	40.1	43.7	47.2
157.5°	8.2	10.5	12.7	14.9	17.2	19.4	21.6	23.9	26.1	29.2	32.3
160°	3.6	5.1	6.7	8.2	9.8	11.3	12.9	14.4	16.0	18.5	20.9
162.5°	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0	8.0	10.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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: P201391

CATALOG NUMBER: 8LBLELD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1210.8	1209.9	1209.1	1208.2	1207.3	1206.4	1205.5	1206.4	1207.3	1208.2	1209.1
5°	1184.1	1183.7	1183.2	1182.8	1182.3	1181.9	1181.4	1181.6	1181.8	1182.1	1182.3
7.5°	1156.1	1155.6	1155.2	1154.7	1154.3	1153.8	1153.4	1153.8	1154.3	1154.7	1155.2
10°	1130.0	1129.5	1129.1	1128.6	1128.2	1127.7	1127.3	1127.7	1128.2	1128.6	1129.1
12.5°	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2
15°	1088.5	1089.0	1089.4	1089.9	1090.3	1090.8	1091.2	1091.2	1091.2	1091.2	1091.2
17.5°	1083.1	1084.5	1085.8	1087.2	1088.5	1089.9	1091.2	1089.9	1088.5	1087.2	1085.8
20°	1088.5	1091.0	1093.4	1095.9	1098.3	1100.8	1103.2	1100.5	1097.8	1095.2	1092.5
22.5°	1099.9	1102.8	1105.7	1108.6	1111.5	1114.4	1117.3	1114.0	1110.6	1107.3	1103.9
25°	1111.2	1114.6	1117.9	1121.3	1124.6	1128.0	1131.3	1127.7	1124.2	1120.6	1117.0
27.5°	1120.6	1124.4	1128.1	1131.9	1135.7	1139.5	1143.3	1139.5	1135.7	1131.9	1128.1
30°	1133.3	1138.0	1142.7	1147.4	1152.0	1156.7	1161.4	1156.5	1151.6	1146.7	1141.8
32.5°	1148.0	1153.6	1159.1	1164.7	1170.3	1175.8	1181.4	1175.8	1170.3	1164.7	1159.1
35°	1167.4	1174.1	1180.7	1187.4	1194.1	1200.8	1207.5	1200.8	1194.1	1187.4	1180.7
37.5°	1191.5	1199.5	1207.5	1215.5	1223.6	1231.6	1239.6	1231.8	1224.0	1216.2	1208.4
40°	1222.2	1231.8	1241.4	1251.0	1260.5	1270.1	1279.7	1270.8	1261.9	1253.0	1244.1
42.5°	1261.0	1272.2	1283.3	1294.5	1305.6	1316.8	1327.9	1317.4	1306.9	1296.5	1286.0
45°	1308.5	1321.4	1334.3	1347.2	1360.2	1373.1	1386.0	1373.5	1361.0	1348.6	1336.1
47.5°	1364.6	1379.5	1394.5	1409.4	1424.3	1439.3	1454.2	1440.4	1426.6	1412.8	1399.0
50°	1431.5	1448.7	1465.8	1483.0	1500.2	1517.3	1534.5	1518.5	1502.4	1486.4	1470.3
52.5°	1504.4	1523.8	1543.1	1562.5	1581.9	1601.3	1620.7	1602.9	1585.1	1567.2	1549.4
55°	1585.3	1606.2	1627.2	1648.1	1669.1	1690.0	1711.0	1690.9	1670.9	1650.8	1630.8
57.5°	1668.2	1690.7	1713.3	1735.8	1758.3	1780.8	1803.3	1781.9	1760.5	1739.1	1717.7
60°	1747.8	1770.7	1793.7	1816.6	1839.6	1862.5	1885.5	1864.8	1844.1	1823.3	1802.6
62.5°	1820.6	1843.8	1867.0	1890.2	1913.3	1936.5	1959.7	1938.8	1917.8	1896.9	1875.9
65°	1876.8	1900.0	1923.2	1946.4	1969.5	1992.7	2015.9	1994.5	1973.1	1951.7	1930.3
67.5°	1908.9	1930.7	1952.6	1974.4	1996.2	2018.1	2039.9	2020.1	2000.2	1980.4	1960.6
70°	1912.2	1933.2	1954.1	1975.1	1996.0	2017.0	2037.9	2019.0	2000.0	1981.1	1962.1
72.5°	1880.8	1900.0	1919.1	1938.3	1957.5	1976.6	1995.8	1978.9	1961.9	1945.0	1928.1
75°	1811.3	1828.7	1846.0	1863.4	1880.8	1898.2	1915.6	1900.4	1885.3	1870.1	1855.0
77.5°	1711.6	1727.9	1744.2	1760.5	1776.7	1793.0	1809.3	1795.0	1780.8	1766.5	1752.2
80°	1586.6	1602.0	1617.4	1632.8	1648.1	1663.5	1678.9	1665.7	1652.6	1639.4	1626.3
82.5°	1447.6	1461.4	1475.2	1489.0	1502.9	1516.7	1530.5	1518.7	1506.9	1495.0	1483.2
85°	1304.5	1316.1	1327.6	1339.2	1350.8	1362.4	1374.0	1363.3	1352.6	1341.9	1331.2
87.5°	1167.4	1178.1	1188.8	1199.5	1210.2	1220.9	1231.6	1221.3	1211.1	1200.8	1190.6
90°	1047.1	1057.1	1067.1	1077.1	1087.2	1097.2	1107.2	1097.6	1088.0	1078.5	1068.9
92.5°	950.8	959.5	968.1	976.8	985.5	994.2	1002.9	994.4	986.0	977.5	969.0
95°	875.2	883.5	891.7	900.0	908.2	916.5	924.7	916.9	909.1	901.3	893.5
97.5°	813.7	822.2	830.6	839.1	847.6	856.0	864.5	856.9	849.3	841.8	834.2
100°	767.6	775.4	783.2	791.0	798.8	806.6	814.4	807.0	799.7	792.3	785.0
102.5°	729.5	737.3	745.1	752.9	760.7	768.5	776.3	769.2	762.0	754.9	747.8
105°	698.7	706.3	713.9	721.5	729.0	736.6	744.2	737.1	729.9	722.8	715.7
107.5°	672.6	680.2	687.8	695.4	702.9	710.5	718.1	711.0	703.8	696.7	689.6
110°	647.2	655.0	662.8	670.6	678.4	686.2	694.0	686.6	679.3	671.9	664.6



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	624.5	632.1	639.7	647.3	654.8	662.4	670.0	662.6	655.3	647.9	640.6
115°	599.1	606.9	614.7	622.5	630.3	638.1	645.9	638.5	631.2	623.8	616.5
117.5°	571.7	579.7	587.7	595.7	603.8	611.8	619.8	612.2	604.6	597.1	589.5
120°	542.2	550.5	558.7	567.0	575.2	583.5	591.7	583.9	576.1	568.3	560.5
122.5°	504.1	513.0	522.0	530.9	539.8	548.7	557.6	549.4	541.1	532.9	524.6
125°	466.7	475.2	483.6	492.1	500.6	509.0	517.5	509.7	501.9	494.1	486.3
127.5°	423.9	431.5	439.1	446.7	454.2	461.8	469.4	462.5	455.6	448.7	441.8
130°	382.5	389.6	396.7	403.8	411.0	418.1	425.2	419.0	412.7	406.5	400.3
132.5°	343.6	350.5	357.5	364.4	371.3	378.2	385.1	379.1	373.1	367.1	361.1
135°	304.2	310.0	315.8	321.6	327.4	333.2	339.0	334.1	329.2	324.3	319.4
137.5°	262.1	267.9	273.7	279.5	285.3	291.1	296.9	292.2	287.5	282.8	278.1
140°	216.6	222.6	228.7	234.7	240.7	246.7	252.7	248.5	244.2	240.0	235.8
142.5°	179.9	185.0	190.1	195.2	200.4	205.5	210.6	207.5	204.4	201.2	198.1
145°	147.8	152.9	158.0	163.1	168.3	173.4	178.5	175.8	173.2	170.5	167.8
147.5°	117.0	121.9	126.8	131.7	136.6	141.5	146.4	144.2	142.0	139.7	137.5
150°	91.6	96.0	100.5	104.9	109.4	113.8	118.3	116.5	114.7	113.0	111.2
152.5°	69.6	73.4	77.1	80.9	84.7	88.5	92.3	91.2	90.1	88.9	87.8
155°	50.8	54.4	57.9	61.5	65.1	68.6	72.2	71.3	70.4	69.5	68.6
157.5°	35.5	38.6	41.7	44.8	48.0	51.1	54.2	53.7	53.3	52.8	52.4
160°	23.4	25.8	28.3	30.7	33.2	35.6	38.1	37.7	37.2	36.8	36.3
162.5°	12.0	14.0	16.1	18.1	20.1	22.1	24.1	23.7	23.2	22.8	22.3
165°	4.0	5.3	6.7	8.0	9.3	10.7	12.0	12.0	12.0	12.0	12.0
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: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1209.9	1210.8	1211.7	1212.6	1213.5	1215.3	1217.1	1218.9	1220.7	1222.4	1224.2
5°	1182.5	1182.7	1183.0	1183.2	1183.4	1185.9	1188.3	1190.8	1193.2	1195.7	1198.1
7.5°	1155.6	1156.1	1156.5	1157.0	1157.4	1160.3	1163.2	1166.1	1169.0	1171.8	1174.7
10°	1129.5	1130.0	1130.4	1130.9	1131.3	1134.4	1137.5	1140.7	1143.8	1146.9	1150.0
12.5°	1107.2	1107.2	1107.2	1107.2	1107.2	1110.3	1113.4	1116.6	1119.7	1122.8	1125.9
15°	1091.2	1091.2	1091.2	1091.2	1091.2	1092.8	1094.3	1095.9	1097.4	1099.0	1100.5
17.5°	1084.5	1083.1	1081.8	1080.4	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
20°	1089.8	1087.1	1084.5	1081.8	1079.1	1076.7	1074.2	1071.8	1069.3	1066.9	1064.4
22.5°	1100.6	1097.2	1093.9	1090.5	1087.2	1081.8	1076.5	1071.1	1065.8	1060.4	1055.1
25°	1113.5	1109.9	1106.3	1102.8	1099.2	1091.8	1084.5	1077.1	1069.8	1062.4	1055.1
27.5°	1124.4	1120.6	1116.8	1113.0	1109.2	1100.5	1091.8	1083.1	1074.4	1065.8	1057.1
30°	1136.9	1132.0	1127.1	1122.2	1117.3	1107.0	1096.8	1086.5	1076.3	1066.0	1055.8
32.5°	1153.6	1148.0	1142.4	1136.9	1131.3	1119.0	1106.8	1094.5	1082.3	1070.0	1057.8
35°	1174.1	1167.4	1160.7	1154.0	1147.3	1133.0	1118.8	1104.5	1090.3	1076.0	1061.8
37.5°	1200.6	1192.8	1185.0	1177.2	1169.4	1152.7	1136.0	1119.3	1102.6	1085.8	1069.1
40°	1235.1	1226.2	1217.3	1208.4	1199.5	1179.7	1159.8	1140.0	1120.2	1100.3	1080.5
42.5°	1275.5	1265.0	1254.6	1244.1	1233.6	1210.4	1187.2	1164.1	1140.9	1117.7	1094.5
45°	1323.6	1311.1	1298.7	1286.2	1273.7	1247.0	1220.2	1193.5	1166.7	1140.0	1113.2
47.5°	1385.1	1371.3	1357.5	1343.7	1329.9	1298.2	1266.6	1234.9	1203.3	1171.6	1140.0
50°	1454.3	1438.2	1422.2	1406.1	1390.1	1353.5	1317.0	1280.4	1243.9	1207.3	1170.8
52.5°	1531.6	1513.8	1495.9	1478.1	1460.3	1418.2	1376.1	1333.9	1291.8	1249.7	1207.6
55°	1610.7	1590.7	1570.6	1550.6	1530.5	1483.5	1436.4	1389.4	1342.4	1295.3	1248.3
57.5°	1696.3	1674.9	1653.5	1632.1	1610.7	1558.3	1505.9	1453.6	1401.2	1348.8	1296.4
60°	1781.9	1761.2	1740.4	1719.7	1699.0	1640.8	1582.6	1524.5	1466.3	1408.1	1349.9
62.5°	1855.0	1834.0	1813.1	1792.1	1771.2	1708.8	1646.4	1584.0	1521.6	1459.1	1396.7
65°	1908.9	1887.5	1866.1	1844.7	1823.3	1758.7	1694.0	1629.4	1564.8	1500.1	1435.5
67.5°	1940.7	1920.9	1901.1	1881.2	1861.4	1795.2	1729.0	1662.8	1596.6	1530.5	1464.3
70°	1943.2	1924.2	1905.3	1886.3	1867.4	1801.4	1735.5	1669.5	1603.5	1537.6	1471.6
72.5°	1911.1	1894.2	1877.3	1860.3	1843.4	1778.5	1713.7	1648.8	1584.0	1519.1	1454.3
75°	1839.8	1824.7	1809.5	1794.4	1779.2	1717.7	1656.2	1594.7	1533.2	1471.6	1410.1
77.5°	1738.0	1723.7	1709.4	1695.2	1680.9	1624.1	1567.2	1510.4	1453.6	1396.7	1339.9
80°	1613.1	1600.0	1586.8	1573.7	1560.5	1508.4	1456.2	1404.1	1351.9	1299.8	1247.6
82.5°	1471.4	1459.6	1447.7	1435.9	1424.1	1377.5	1330.9	1284.4	1237.8	1191.2	1144.6
85°	1320.5	1309.8	1299.1	1288.4	1277.7	1237.1	1196.6	1156.0	1115.5	1074.9	1034.4
87.5°	1180.3	1170.1	1159.8	1149.6	1139.3	1103.9	1068.4	1033.0	997.6	962.1	926.7
90°	1059.3	1049.7	1040.2	1030.6	1021.0	989.8	958.6	927.4	896.2	865.0	833.8
92.5°	960.6	952.1	943.6	935.2	926.7	898.8	871.0	843.1	815.3	787.4	759.6
95°	885.7	877.9	870.1	862.3	854.5	829.1	803.7	778.3	752.9	727.4	702.0
97.5°	826.6	819.0	811.5	803.9	796.3	772.2	748.2	724.1	700.0	676.0	651.9
100°	777.6	770.3	762.9	755.6	748.2	725.2	702.3	679.3	656.4	633.4	610.5
102.5°	740.6	733.5	726.4	719.2	712.1	689.6	667.1	644.6	622.1	599.5	577.0
105°	708.5	701.4	694.3	687.1	680.0	657.3	634.5	611.8	589.1	566.3	543.6
107.5°	682.4	675.3	668.2	661.0	653.9	631.4	608.9	586.4	563.9	541.3	518.8
110°	657.2	649.9	642.5	635.2	627.8	605.5	583.2	560.9	538.6	516.4	494.1



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	633.2	625.9	618.5	611.2	603.8	581.5	559.2	536.9	514.6	492.4	470.1
115°	609.1	601.8	594.4	587.1	579.7	557.4	535.1	512.8	490.5	468.3	446.0
117.5°	581.9	574.3	566.8	559.2	551.6	529.5	507.5	485.4	463.3	441.3	419.2
120°	552.7	544.9	537.1	529.3	521.5	499.9	478.3	456.7	435.1	413.4	391.8
122.5°	516.4	508.1	499.9	491.6	483.4	463.1	442.8	422.6	402.3	382.0	361.7
125°	478.5	470.7	462.9	455.1	447.3	427.9	408.5	389.1	369.7	350.4	331.0
127.5°	434.8	427.9	421.0	414.1	407.2	389.4	371.5	353.7	335.9	318.0	300.2
130°	394.0	387.8	381.6	375.3	369.1	352.4	335.7	318.9	302.2	285.5	268.8
132.5°	355.0	349.0	343.0	337.0	331.0	315.4	299.8	284.2	268.6	253.0	237.4
135°	314.5	309.6	304.7	299.8	294.9	280.6	266.4	252.1	237.8	223.6	209.3
137.5°	273.5	268.8	264.1	259.4	254.7	242.4	230.2	217.9	205.7	193.4	181.2
140°	231.5	227.3	223.1	218.8	214.6	204.4	194.1	183.9	173.6	163.4	153.1
142.5°	195.0	191.9	188.7	185.6	182.5	173.6	164.7	155.8	146.9	137.9	129.0
145°	165.2	162.5	159.8	157.2	154.5	146.9	139.3	131.8	124.2	116.6	109.0
147.5°	135.3	133.1	130.8	128.6	126.4	120.4	114.4	108.3	102.3	96.3	90.3
150°	109.4	107.6	105.9	104.1	102.3	97.4	92.5	87.6	82.7	77.8	72.9
152.5°	86.7	85.6	84.4	83.3	82.2	78.4	74.6	70.8	67.0	63.3	59.5
155°	67.8	66.9	66.0	65.1	64.2	61.1	58.0	54.8	51.7	48.6	45.5
157.5°	51.9	51.5	51.0	50.6	50.1	47.2	44.3	41.4	38.5	35.7	32.8
160°	35.9	35.4	35.0	34.5	34.1	32.1	30.1	28.1	26.1	24.0	22.0
162.5°	21.9	21.4	21.0	20.5	20.1	19.2	18.3	17.4	16.5	15.6	14.7
165°	12.0	12.0	12.0	12.0	12.0	11.6	11.1	10.7	10.2	9.8	9.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1226.0	1227.8	1229.6	1230.5	1231.4	1232.3	1233.2	1234.0	1234.9	1235.8	1236.7
5°	1200.6	1203.0	1205.5	1207.3	1209.1	1210.9	1212.7	1214.4	1216.2	1218.0	1219.8
7.5°	1177.6	1180.5	1183.4	1185.2	1187.0	1188.8	1190.6	1192.3	1194.1	1195.9	1197.7
10°	1153.2	1156.3	1159.4	1161.2	1163.0	1164.7	1166.5	1168.3	1170.1	1171.8	1173.6
12.5°	1129.1	1132.2	1135.3	1136.9	1138.4	1140.0	1141.5	1143.1	1144.6	1146.2	1147.7
15°	1102.1	1103.6	1105.2	1107.2	1109.2	1111.2	1113.2	1115.3	1117.3	1119.3	1121.3
17.5°	1079.1	1079.1	1079.1	1080.4	1081.8	1083.1	1084.5	1085.8	1087.2	1088.5	1089.9
20°	1062.0	1059.5	1057.1	1057.3	1057.5	1057.8	1058.0	1058.2	1058.4	1058.7	1058.9
22.5°	1049.7	1044.4	1039.0	1037.7	1036.3	1035.0	1033.7	1032.3	1031.0	1029.7	1028.3
25°	1047.7	1040.4	1033.0	1028.1	1023.2	1018.3	1013.4	1008.5	1003.6	998.7	993.8
27.5°	1048.4	1039.7	1031.0	1022.1	1013.2	1004.3	995.4	986.4	977.5	968.6	959.7
30°	1045.5	1035.3	1025.0	1012.7	1000.5	988.2	976.0	963.7	951.5	939.2	927.0
32.5°	1045.5	1033.3	1021.0	1005.4	989.8	974.2	958.6	943.0	927.4	911.8	896.2
35°	1047.5	1033.3	1019.0	999.8	980.7	961.5	942.3	923.2	904.0	884.8	865.7
37.5°	1052.4	1035.7	1019.0	996.3	973.5	950.8	928.1	905.3	882.6	859.9	837.1
40°	1060.7	1040.8	1021.0	995.1	969.3	943.4	917.6	891.7	865.9	840.0	814.2
42.5°	1071.4	1048.2	1025.0	996.2	967.5	938.7	910.0	881.2	852.5	823.7	795.0
45°	1086.5	1059.7	1033.0	1000.9	968.8	936.7	904.6	872.6	840.5	808.4	776.3
47.5°	1108.3	1076.7	1045.0	1009.1	973.2	937.4	901.5	865.6	829.7	793.9	758.0
50°	1134.2	1097.7	1061.1	1021.0	980.9	940.7	900.6	860.5	820.4	780.2	740.1
52.5°	1165.4	1123.3	1081.2	1036.6	992.0	947.5	902.9	858.3	813.7	769.2	724.6
55°	1201.3	1154.2	1107.2	1057.7	1008.2	958.8	909.3	859.8	810.3	760.9	711.4
57.5°	1244.1	1191.7	1139.3	1084.3	1029.2	974.2	919.1	864.1	809.0	754.0	698.9
60°	1291.8	1233.6	1175.4	1114.6	1053.7	992.9	932.0	871.2	810.3	749.5	688.6
62.5°	1334.3	1271.9	1209.5	1143.1	1076.7	1010.3	943.9	877.4	811.0	744.6	678.2
65°	1370.9	1306.2	1241.6	1169.8	1098.1	1026.3	954.5	882.8	811.0	739.2	667.5
67.5°	1398.1	1331.9	1265.7	1189.3	1112.8	1036.4	959.9	883.5	807.0	730.6	654.1
70°	1405.6	1339.7	1273.7	1193.9	1114.1	1034.3	954.5	874.8	795.0	715.2	635.4
72.5°	1389.4	1324.6	1259.7	1178.8	1097.9	1017.0	936.1	855.1	774.2	693.3	612.4
75°	1348.6	1287.1	1225.6	1145.4	1065.1	984.9	904.7	824.4	744.2	664.0	583.7
77.5°	1283.1	1226.2	1169.4	1091.4	1013.4	935.4	857.4	779.4	701.4	623.4	545.4
80°	1195.5	1143.3	1091.2	1018.3	945.4	872.6	799.7	726.8	653.9	581.1	508.2
82.5°	1098.1	1051.5	1004.9	937.8	870.7	803.7	736.6	669.5	602.4	535.4	468.3
85°	993.8	953.3	912.7	852.1	791.5	730.8	670.2	609.6	549.0	488.3	427.7
87.5°	891.3	855.8	820.4	766.2	712.1	657.9	603.8	549.6	495.5	441.3	387.2
90°	802.6	771.4	740.2	691.4	642.6	593.8	545.0	496.1	447.3	398.5	349.7
92.5°	731.7	703.9	676.0	631.9	587.7	543.6	499.5	455.3	411.2	367.1	322.9
95°	676.6	651.2	625.8	585.0	544.2	503.5	462.7	421.9	381.1	340.4	299.6
97.5°	627.8	603.8	579.7	542.0	504.4	466.7	429.0	391.4	353.7	316.0	278.4
100°	587.5	564.6	541.6	506.2	470.7	435.3	399.8	364.4	328.9	293.5	258.0
102.5°	554.5	532.0	509.5	475.6	441.7	407.9	374.0	340.1	306.2	272.4	238.5
105°	520.9	498.1	475.4	443.5	411.6	379.8	347.9	316.0	284.1	252.3	220.4
107.5°	496.3	473.8	451.3	420.3	389.3	358.4	327.4	296.4	265.4	234.5	203.5
110°	471.8	449.5	427.2	397.3	367.5	337.6	307.8	277.9	248.1	218.2	188.4



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	447.8	425.5	403.2	374.4	345.7	316.9	288.2	259.4	230.7	201.9	173.2
115°	423.7	401.4	379.1	351.5	323.8	296.2	268.6	240.9	213.3	185.7	158.0
117.5°	397.1	375.1	353.0	326.7	300.4	274.1	247.8	221.5	195.2	168.9	142.6
120°	370.2	348.6	327.0	302.0	277.1	252.1	227.1	202.2	177.2	152.2	127.3
122.5°	341.5	321.2	300.9	277.5	254.1	230.7	207.3	183.9	160.5	137.1	113.7
125°	311.6	292.2	272.8	251.2	229.6	207.9	186.3	164.7	143.1	121.4	99.8
127.5°	282.4	264.5	246.7	226.9	207.0	187.2	167.4	147.5	127.7	107.9	88.0
130°	252.0	235.3	218.6	201.0	183.4	165.8	148.2	130.6	113.0	95.4	77.8
132.5°	221.8	206.2	190.6	175.2	159.8	144.5	129.1	113.7	98.3	83.0	67.6
135°	195.0	180.8	166.5	153.1	139.7	126.4	113.0	99.6	86.2	72.9	59.5
137.5°	168.9	156.7	144.4	132.8	121.2	109.6	98.0	86.5	74.9	63.3	51.7
140°	142.9	132.6	122.4	112.4	102.3	92.3	82.3	72.2	62.2	52.2	42.1
142.5°	120.1	111.2	102.3	93.6	84.9	76.2	67.5	58.9	50.2	41.5	32.8
145°	101.5	93.9	86.3	78.9	71.6	64.2	56.9	49.5	42.2	34.8	27.5
147.5°	84.2	78.2	72.2	66.0	59.7	53.5	47.2	41.0	34.7	28.5	22.2
150°	68.0	63.1	58.2	53.3	48.4	43.5	38.6	33.6	28.7	23.8	18.9
152.5°	55.7	51.9	48.1	44.1	40.1	36.1	32.1	28.0	24.0	20.0	16.0
155°	42.3	39.2	36.1	33.2	30.3	27.4	24.5	21.6	18.7	15.8	12.9
157.5°	29.9	27.0	24.1	22.3	20.5	18.7	16.9	15.2	13.4	11.6	9.8
160°	20.0	18.0	16.0	14.9	13.8	12.7	11.6	10.4	9.3	8.2	7.1
162.5°	13.8	12.9	12.0	11.1	10.2	9.3	8.4	7.6	6.7	5.8	4.9
165°	8.9	8.4	8.0	7.6	7.1	6.7	6.2	5.8	5.3	4.9	4.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLELD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1237.6	1241.4	1245.2	1249.0	1252.8	1256.5	1260.3	1264.1	1267.9	1271.7	1271.5
5°	1221.6	1226.5	1231.4	1236.3	1241.2	1246.1	1251.0	1255.9	1260.8	1265.7	1267.0
7.5°	1199.5	1205.7	1212.0	1218.2	1224.5	1230.7	1237.0	1243.2	1249.5	1255.7	1258.6
10°	1175.4	1182.5	1189.7	1196.8	1203.9	1211.1	1218.2	1225.3	1232.5	1239.6	1244.3
12.5°	1149.3	1157.3	1165.4	1173.4	1181.4	1189.5	1197.5	1205.5	1213.6	1221.6	1227.8
15°	1123.3	1131.8	1140.2	1148.7	1157.2	1165.6	1174.1	1182.6	1191.0	1199.5	1207.3
17.5°	1091.2	1100.3	1109.5	1118.6	1127.7	1136.9	1146.0	1155.1	1164.3	1173.4	1183.0
20°	1059.1	1068.2	1077.4	1086.5	1095.6	1104.8	1113.9	1123.0	1132.2	1141.3	1152.9
22.5°	1027.0	1035.7	1044.4	1053.1	1061.8	1070.4	1079.1	1087.8	1096.5	1105.2	1118.8
25°	988.9	998.0	1007.2	1016.3	1025.4	1034.6	1043.7	1052.8	1062.0	1071.1	1086.5
27.5°	950.8	959.3	967.7	976.2	984.7	993.1	1001.6	1010.1	1018.5	1027.0	1044.6
30°	914.7	922.5	930.3	938.1	945.9	953.7	961.5	969.3	977.1	984.9	1004.5
32.5°	880.6	887.5	894.4	901.3	908.2	915.1	922.0	928.9	935.8	942.7	964.1
35°	846.5	851.8	857.2	862.5	867.9	873.2	878.6	883.9	889.3	894.6	918.7
37.5°	814.4	818.0	821.5	825.1	828.7	832.2	835.8	839.4	842.9	846.5	873.2
40°	788.3	789.2	790.1	791.0	791.9	792.7	793.6	794.5	795.4	796.3	826.4
42.5°	766.2	764.0	761.8	759.5	757.3	755.1	752.9	750.6	748.4	746.2	779.6
45°	744.2	738.6	733.0	727.5	721.9	716.3	710.7	705.2	699.6	694.0	730.8
47.5°	722.1	713.4	704.7	696.0	687.3	678.7	670.0	661.3	652.6	643.9	684.2
50°	700.0	688.2	676.4	664.6	652.8	640.9	629.1	617.3	605.5	593.7	637.4
52.5°	680.0	664.8	649.7	634.5	619.4	604.2	589.1	573.9	558.8	543.6	591.1
55°	661.9	643.0	624.0	605.1	586.1	567.2	548.2	529.3	510.3	491.4	542.9
57.5°	643.9	621.6	599.3	577.0	554.7	532.5	510.2	487.9	465.6	443.3	498.6
60°	627.8	602.4	577.0	551.6	526.2	500.8	475.4	450.0	424.6	399.2	458.3
62.5°	611.8	583.3	554.7	526.2	497.7	469.1	440.6	412.1	383.5	355.0	417.6
65°	595.7	564.3	532.9	501.4	470.0	438.6	407.2	375.7	344.3	312.9	378.9
67.5°	577.7	543.8	509.9	476.1	442.2	408.3	374.4	340.6	306.7	272.8	341.4
70°	555.6	519.7	483.8	448.0	412.1	376.2	340.3	304.5	268.6	232.7	303.8
72.5°	531.5	494.1	456.6	419.2	381.8	344.3	306.9	269.5	232.0	194.6	267.3
75°	503.5	465.4	427.3	389.2	351.1	312.9	274.8	236.7	198.6	160.5	233.6
77.5°	467.4	429.5	391.6	353.7	315.8	278.0	240.1	202.2	164.3	126.4	199.3
80°	435.3	397.6	360.0	322.3	284.6	247.0	209.3	171.6	134.0	96.3	168.3
82.5°	401.2	364.0	326.8	289.5	252.3	215.1	177.9	140.6	103.4	66.2	136.4
85°	367.1	331.0	294.9	258.8	222.7	186.5	150.4	114.3	78.2	42.1	108.7
87.5°	333.0	298.0	263.0	228.0	193.0	158.1	123.1	88.1	53.1	18.1	81.6
90°	300.9	267.7	234.5	201.3	168.1	134.8	101.6	68.4	35.2	2.0	61.5
92.5°	278.8	248.0	217.3	186.5	155.8	125.0	94.3	63.5	32.8	2.0	56.6
95°	258.8	230.3	201.7	173.2	144.7	116.1	87.6	59.1	30.5	2.0	52.1
97.5°	240.7	214.2	187.7	161.1	134.6	108.1	81.6	55.0	28.5	2.0	47.9
100°	222.6	197.9	173.1	148.4	123.7	98.9	74.2	49.5	24.7	0.0	41.9
102.5°	204.6	182.1	159.6	137.1	114.6	92.0	69.5	47.0	24.5	2.0	39.7
105°	188.5	167.8	147.1	126.3	105.6	84.9	64.2	43.4	22.7	2.0	35.9
107.5°	172.5	153.6	134.6	115.7	96.7	77.8	58.8	39.9	20.9	2.0	32.3
110°	158.5	141.1	123.7	106.3	88.9	71.6	54.2	36.8	19.4	2.0	29.0



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	144.4	128.6	112.8	96.9	81.1	65.3	49.5	33.6	17.8	2.0	26.1
115°	130.4	116.1	101.9	87.6	73.3	59.1	44.8	30.5	16.3	2.0	23.6
117.5°	116.3	103.6	90.9	78.2	65.5	52.8	40.1	27.4	14.7	2.0	21.4
120°	102.3	90.9	79.6	68.2	56.8	45.5	34.1	22.7	11.4	0.0	17.6
122.5°	90.3	80.5	70.7	60.9	51.1	41.2	31.4	21.6	11.8	2.0	17.6
125°	78.2	69.7	61.3	52.8	44.3	35.9	27.4	18.9	10.5	2.0	15.6
127.5°	68.2	60.8	53.5	46.1	38.8	31.4	24.1	16.7	9.4	2.0	13.8
130°	60.2	53.7	47.3	40.8	34.3	27.9	21.4	14.9	8.5	2.0	12.0
132.5°	52.2	46.6	41.0	35.5	29.9	24.3	18.7	13.2	7.6	2.0	10.0
135°	46.1	41.2	36.3	31.4	26.5	21.6	16.7	11.8	6.9	2.0	8.2
137.5°	40.1	35.9	31.6	27.4	23.2	18.9	14.7	10.5	6.2	2.0	6.7
140°	32.1	28.8	25.4	22.1	18.7	15.4	12.0	8.7	5.3	2.0	5.1
142.5°	24.1	21.6	19.2	16.7	14.3	11.8	9.4	6.9	4.5	2.0	4.0
145°	20.1	18.1	16.1	14.1	12.1	10.0	8.0	6.0	4.0	2.0	3.3
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	2.4
152.5°	12.0	10.9	9.8	8.7	7.6	6.4	5.3	4.2	3.1	2.0	2.2
155°	10.0	9.1	8.2	7.3	6.4	5.6	4.7	3.8	2.9	2.0	2.2
157.5°	8.0	7.3	6.7	6.0	5.3	4.7	4.0	3.3	2.7	2.0	2.0
160°	6.0	5.6	5.1	4.7	4.2	3.8	3.3	2.9	2.4	2.0	2.0
162.5°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	1.8
165°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLELD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1271.3	1271.0	1270.8	1270.6	1270.4	1270.1	1269.9	1269.7	1271.0	1272.4	1273.7
5°	1268.4	1269.7	1271.0	1272.4	1273.7	1275.0	1276.4	1277.7	1280.4	1283.1	1285.7
7.5°	1261.5	1264.4	1267.3	1270.1	1273.0	1275.9	1278.8	1281.7	1285.7	1289.7	1293.7
10°	1249.0	1253.6	1258.3	1263.0	1267.7	1272.3	1277.0	1281.7	1287.3	1292.9	1298.4
12.5°	1234.1	1240.3	1246.5	1252.8	1259.0	1265.2	1271.5	1277.7	1284.8	1292.0	1299.1
15°	1215.1	1222.9	1230.7	1238.5	1246.3	1254.1	1261.9	1269.7	1278.8	1288.0	1297.1
17.5°	1192.6	1202.2	1211.8	1221.3	1230.9	1240.5	1250.1	1259.7	1270.8	1282.0	1293.1
20°	1164.5	1176.1	1187.7	1199.2	1210.8	1222.4	1234.0	1245.6	1259.2	1272.8	1286.4
22.5°	1132.4	1146.0	1159.6	1173.2	1186.8	1200.4	1214.0	1227.6	1244.5	1261.5	1278.4
25°	1101.9	1117.2	1132.6	1148.0	1163.4	1178.7	1194.1	1209.5	1230.5	1251.4	1272.4
27.5°	1062.2	1079.8	1097.4	1115.1	1132.7	1150.3	1167.9	1185.5	1210.5	1235.4	1260.4
30°	1024.1	1043.7	1063.3	1083.0	1102.6	1122.2	1141.8	1161.4	1190.8	1220.2	1249.7
32.5°	985.5	1006.9	1028.3	1049.7	1071.1	1092.5	1113.9	1135.3	1169.0	1202.6	1236.3
35°	942.7	966.8	990.9	1014.9	1039.0	1063.1	1087.1	1111.2	1149.3	1187.4	1225.5
37.5°	900.0	926.7	953.5	980.2	1007.0	1033.7	1060.5	1087.2	1129.8	1172.3	1214.9
40°	856.5	886.6	916.7	946.7	976.8	1006.9	1037.0	1067.1	1114.1	1161.1	1208.2
42.5°	813.1	846.5	879.9	913.4	946.8	980.2	1013.7	1047.1	1099.0	1150.9	1202.9
45°	767.6	804.3	841.1	877.9	914.7	951.4	988.2	1025.0	1082.1	1139.1	1196.2
47.5°	724.6	764.9	805.2	845.6	885.9	926.2	966.6	1006.9	1069.8	1132.6	1195.5
50°	681.1	724.8	768.5	812.1	855.8	899.5	943.2	986.9	1056.4	1126.0	1195.5
52.5°	638.5	686.0	733.5	780.9	828.4	875.9	923.3	970.8	1047.2	1123.7	1200.1
55°	594.4	645.9	697.4	748.8	800.3	851.8	903.3	954.8	1039.0	1123.3	1207.5
57.5°	553.8	609.1	664.4	719.6	774.9	830.2	885.4	940.7	1033.6	1126.6	1219.5
60°	517.3	576.4	635.4	694.5	753.5	812.6	871.6	930.7	1032.3	1134.0	1235.6
62.5°	480.3	542.9	605.5	668.2	730.8	793.4	856.1	918.7	1029.2	1139.8	1250.3
65°	444.8	510.8	576.8	642.7	708.7	774.7	840.6	906.6	1025.6	1144.6	1263.7
67.5°	410.1	478.7	547.4	616.0	684.7	753.3	822.0	890.6	1017.4	1144.2	1271.0
70°	374.9	446.0	517.1	588.1	659.2	730.3	801.4	872.5	1004.4	1136.4	1268.3
72.5°	339.9	412.6	485.2	557.9	630.5	703.2	775.8	848.5	927.7	1116.8	1251.0
75°	306.7	379.8	452.9	526.0	599.1	672.2	745.3	818.4	951.9	1085.4	1218.9
77.5°	272.2	345.0	417.9	490.8	563.7	636.5	709.4	782.3	911.8	1041.3	1170.8
80°	240.3	312.3	384.3	456.2	528.2	600.2	672.2	744.2	865.7	987.1	1108.6
82.5°	206.6	276.8	347.0	417.2	487.4	557.6	627.8	698.0	812.3	926.7	1041.0
85°	175.4	242.0	308.7	375.3	442.0	508.6	575.3	641.9	747.1	852.3	957.5
87.5°	145.1	208.6	272.1	335.7	399.2	462.7	526.2	589.7	685.1	780.5	875.9
90°	121.0	180.5	240.0	299.6	359.1	418.6	478.1	537.6	623.0	708.3	793.7
92.5°	111.2	165.8	220.4	275.0	329.6	384.2	438.8	493.4	572.3	651.2	730.1
95°	102.3	152.4	202.6	252.7	302.9	353.0	403.2	453.3	526.0	598.6	671.3
97.5°	93.8	139.7	185.6	231.6	277.5	323.4	369.3	415.2	482.7	550.3	617.8
100°	83.8	125.7	167.6	209.5	251.4	293.3	335.2	377.1	440.6	504.1	567.7
102.5°	77.3	115.0	152.7	190.3	228.0	265.7	303.3	341.0	401.4	461.8	522.2
105°	69.8	103.6	137.5	171.4	205.3	239.1	273.0	306.9	364.6	422.3	480.1
107.5°	62.6	92.9	123.2	153.6	183.9	214.2	244.5	274.8	330.3	385.8	441.3
110°	55.9	82.9	109.9	136.8	163.8	190.8	217.7	244.7	297.5	350.3	403.2



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	50.1	74.2	98.3	122.3	146.4	170.5	194.5	218.6	269.2	319.8	370.4
115°	45.2	66.9	88.5	110.1	131.7	153.4	175.0	196.6	244.7	292.9	341.0
117.5°	40.8	60.2	79.6	98.9	118.3	137.7	157.1	176.5	221.7	267.0	312.2
120°	35.2	52.8	70.4	88.1	105.7	123.3	140.9	158.5	200.2	241.9	283.5
122.5°	33.2	48.8	64.4	80.0	95.6	111.2	126.8	142.4	179.6	216.8	254.1
125°	29.2	42.8	56.4	70.0	83.6	97.2	110.8	124.4	158.3	192.2	226.0
127.5°	25.6	37.4	49.2	61.1	72.9	84.7	96.5	108.3	138.8	169.4	199.9
130°	22.1	32.1	42.1	52.2	62.2	72.2	82.3	92.3	118.8	145.3	171.9
132.5°	18.0	26.1	34.1	42.1	50.1	58.2	66.2	74.2	97.2	120.1	143.1
135°	14.5	20.7	27.0	33.2	39.5	45.7	52.0	58.2	78.3	98.3	118.4
137.5°	11.4	16.0	20.7	25.4	30.1	34.7	39.4	44.1	61.5	78.9	96.3
140°	8.2	11.4	14.5	17.6	20.7	23.9	27.0	30.1	45.5	60.9	76.2
142.5°	6.0	8.0	10.0	12.1	14.1	16.1	18.1	20.1	33.2	46.4	59.5
145°	4.7	6.0	7.3	8.7	10.0	11.3	12.7	14.0	24.7	35.4	46.1
147.5°	3.8	4.7	5.6	6.4	7.3	8.2	9.1	10.0	18.7	27.4	36.1
150°	2.9	3.3	3.8	4.2	4.7	5.1	5.6	6.0	12.7	19.4	26.1
152.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	8.7	13.4	18.0
155°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	6.9	9.8	12.7
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.6	5.1	6.7
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0
162.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.2	0.4	0.7
165°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	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: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1275.0	1276.4	1277.7	1279.0	1280.4	1281.7	1282.1	1282.6	1283.0	1283.5	1283.9
5°	1288.4	1291.1	1293.8	1296.4	1299.1	1301.8	1303.1	1304.5	1305.8	1307.1	1308.5
7.5°	1297.7	1301.8	1305.8	1309.8	1313.8	1317.8	1320.5	1323.2	1325.8	1328.5	1331.2
10°	1304.0	1309.6	1315.2	1320.7	1326.3	1331.9	1335.9	1339.9	1343.9	1347.9	1352.0
12.5°	1306.2	1313.4	1320.5	1327.6	1334.8	1341.9	1347.5	1353.1	1358.6	1364.2	1369.8
15°	1306.2	1315.4	1324.5	1333.6	1342.8	1351.9	1358.8	1365.7	1372.6	1379.5	1386.5
17.5°	1304.3	1315.4	1326.6	1337.7	1348.9	1360.0	1369.6	1379.2	1388.7	1398.3	1407.9
20°	1300.0	1313.6	1327.2	1340.8	1354.4	1368.0	1380.5	1393.0	1405.4	1417.9	1430.4
22.5°	1295.3	1312.3	1329.2	1346.1	1363.1	1380.0	1395.2	1410.3	1425.5	1440.6	1455.8
25°	1293.3	1314.3	1335.2	1356.2	1377.1	1398.1	1415.0	1432.0	1448.9	1465.8	1482.8
27.5°	1285.3	1310.3	1335.2	1360.2	1385.1	1410.1	1429.3	1448.4	1467.6	1486.8	1505.9
30°	1279.1	1308.5	1337.9	1367.4	1396.8	1426.2	1448.0	1469.9	1491.7	1513.5	1535.4
32.5°	1269.9	1303.6	1337.2	1370.9	1404.5	1438.2	1462.7	1487.2	1511.7	1536.2	1560.8
35°	1263.6	1301.8	1339.9	1378.0	1416.1	1454.2	1482.1	1509.9	1537.8	1565.7	1593.5
37.5°	1257.5	1300.0	1342.6	1385.2	1427.7	1470.3	1502.4	1534.5	1566.6	1598.7	1630.7
40°	1255.2	1302.2	1349.2	1396.3	1443.3	1490.3	1528.0	1565.6	1603.3	1641.0	1678.6
42.5°	1254.8	1306.7	1358.6	1410.6	1462.5	1514.4	1557.9	1601.3	1644.8	1688.3	1731.7
45°	1253.2	1310.3	1367.3	1424.4	1481.4	1538.5	1588.6	1638.8	1688.9	1739.1	1789.2
47.5°	1258.3	1321.2	1384.0	1446.9	1509.7	1572.6	1629.7	1686.7	1743.8	1800.8	1857.9
50°	1265.0	1334.6	1404.1	1473.6	1543.2	1612.7	1678.9	1745.1	1811.3	1877.5	1943.6
52.5°	1276.6	1353.0	1429.5	1505.9	1582.4	1658.8	1733.0	1807.2	1881.5	1955.7	2029.9
55°	1291.8	1376.0	1460.3	1544.5	1628.8	1713.0	1795.9	1878.8	1961.7	2044.6	2127.6
57.5°	1312.5	1405.4	1498.4	1591.3	1684.3	1777.2	1867.9	1958.6	2049.3	2140.0	2230.8
60°	1337.2	1438.9	1540.5	1642.1	1743.8	1845.4	1943.0	2040.6	2138.2	2235.8	2333.5
62.5°	1360.9	1471.4	1582.0	1692.5	1803.1	1913.6	2017.2	2120.9	2224.5	2328.1	2431.8
65°	1382.7	1501.7	1620.7	1739.8	1858.8	1977.8	2085.7	2193.5	2301.4	2409.3	2517.1
67.5°	1397.8	1524.7	1651.5	1778.3	1905.1	2031.9	2141.1	2250.3	2359.5	2468.7	2578.0
70°	1400.3	1532.2	1664.2	1796.1	1928.1	2060.0	2168.8	2277.5	2386.3	2495.1	2603.8
72.5°	1385.2	1519.3	1653.5	1787.7	1921.8	2056.0	2162.1	2268.2	2374.3	2480.4	2586.4
75°	1352.4	1485.9	1619.4	1752.9	1886.4	2019.9	2121.1	2222.3	2323.4	2424.6	2525.8
77.5°	1300.3	1429.7	1559.2	1688.7	1818.2	1947.7	2042.2	2136.7	2231.2	2325.7	2420.2
80°	1230.1	1351.5	1473.0	1594.5	1715.9	1837.4	1925.4	2013.5	2101.5	2189.5	2277.6
82.5°	1155.3	1269.7	1384.0	1498.3	1612.7	1727.0	1805.2	1883.5	1961.7	2039.9	2118.2
85°	1062.7	1167.8	1273.0	1378.2	1483.4	1588.6	1658.8	1729.0	1799.2	1869.4	1939.7
87.5°	971.3	1066.6	1162.0	1257.4	1352.8	1448.2	1511.3	1574.4	1637.4	1700.5	1763.6
90°	879.0	964.4	1049.7	1135.1	1220.4	1305.8	1364.4	1423.0	1481.6	1540.2	1598.9
92.5°	809.0	887.9	966.8	1045.7	1124.6	1203.5	1256.3	1309.1	1362.0	1414.8	1467.6
95°	743.9	816.6	889.2	961.9	1034.5	1107.2	1156.9	1206.6	1256.3	1306.0	1355.7
97.5°	685.3	752.9	820.4	887.9	955.5	1023.0	1070.0	1117.0	1164.1	1211.1	1258.1
100°	631.2	694.7	758.2	821.8	885.3	948.8	994.3	1039.7	1085.2	1130.7	1176.1
102.5°	582.6	643.0	703.4	763.8	824.2	884.6	929.4	974.2	1019.0	1063.8	1108.6
105°	537.8	595.5	653.2	711.0	768.7	826.4	870.5	914.7	958.8	1002.9	1047.1
107.5°	496.8	552.3	607.8	663.3	718.8	774.3	817.8	861.2	904.7	948.1	991.6
110°	456.0	508.8	561.6	614.5	667.3	720.1	763.3	806.6	849.8	893.0	936.3



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	421.0	471.6	522.2	572.8	623.4	674.0	715.9	757.8	799.7	841.6	883.5
115°	389.1	437.3	485.4	533.5	581.7	629.8	669.7	709.6	749.5	789.4	829.3
117.5°	357.5	402.7	448.0	493.2	538.5	583.7	622.0	660.4	698.7	737.0	775.4
120°	325.2	366.9	408.6	450.2	491.9	533.6	571.3	608.9	646.6	684.2	721.9
122.5°	291.3	328.5	365.7	403.0	440.2	477.4	514.8	552.3	589.7	627.2	664.6
125°	259.9	293.8	327.7	361.5	395.4	429.3	464.7	500.2	535.6	571.0	606.5
127.5°	230.4	261.0	291.5	322.0	352.6	383.1	415.6	448.2	480.7	513.3	545.8
130°	198.4	224.9	251.4	278.0	304.5	331.0	360.9	390.7	420.6	450.4	480.3
132.5°	166.0	189.0	211.9	234.9	257.8	280.8	308.4	336.1	363.7	391.3	419.0
135°	138.4	158.5	178.5	198.6	218.6	238.7	263.7	288.6	313.6	338.6	363.5
137.5°	113.7	131.0	148.4	165.8	183.2	200.6	222.7	244.7	266.8	288.9	310.9
140°	91.6	107.0	122.4	137.7	153.1	168.5	186.8	205.1	223.3	241.6	259.9
142.5°	72.7	85.8	99.0	112.1	125.3	138.4	153.8	169.2	184.5	199.9	215.3
145°	56.8	67.5	78.2	88.9	99.6	110.3	123.5	136.6	149.8	162.9	176.1
147.5°	44.8	53.5	62.2	70.9	79.6	88.3	98.8	109.2	119.7	130.2	140.6
150°	32.8	39.4	46.1	52.8	59.5	66.2	74.9	83.6	92.3	101.0	109.6
152.5°	22.7	27.4	32.1	36.7	41.4	46.1	53.0	59.9	66.8	73.7	80.7
155°	15.6	18.5	21.4	24.3	27.2	30.1	35.4	40.8	46.1	51.5	56.8
157.5°	8.2	9.8	11.3	12.9	14.4	16.0	20.0	24.0	28.1	32.1	36.1
160°	4.7	5.3	6.0	6.7	7.3	8.0	10.5	12.9	15.4	17.8	20.3
162.5°	0.9	1.1	1.3	1.6	1.8	2.0	3.1	4.2	5.3	6.4	7.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
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: P201391

CATALOG NUMBER: 8LBLELD4-10-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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1284.4	1284.8	1285.3	1285.7	1284.1	1282.6	1281.0	1279.5	1277.9	1276.4	1274.8
5°	1309.8	1311.1	1312.5	1313.8	1313.4	1312.9	1312.5	1312.0	1311.6	1311.1	1310.7
7.5°	1333.9	1336.5	1339.2	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9
10°	1356.0	1360.0	1364.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0	1368.0
12.5°	1375.4	1380.9	1386.5	1392.1	1393.0	1393.9	1394.8	1395.7	1396.5	1397.4	1398.3
15°	1393.4	1400.3	1407.2	1414.1	1415.9	1417.7	1419.5	1421.3	1423.0	1424.8	1426.6
17.5°	1417.5	1427.0	1436.6	1446.2	1449.1	1452.0	1454.9	1457.8	1460.7	1463.6	1466.5
20°	1442.9	1455.3	1467.8	1480.3	1484.1	1487.9	1491.7	1495.5	1499.2	1503.0	1506.8
22.5°	1470.9	1486.1	1501.2	1516.4	1520.6	1524.9	1529.1	1533.3	1537.6	1541.8	1546.0
25°	1499.7	1516.6	1533.6	1550.5	1555.9	1561.2	1566.6	1571.9	1577.3	1582.6	1588.0
27.5°	1525.1	1544.3	1563.4	1582.6	1589.3	1596.0	1602.7	1609.4	1616.0	1622.7	1629.4
30°	1557.2	1579.0	1600.9	1622.7	1630.1	1637.4	1644.8	1652.1	1659.5	1666.8	1674.2
32.5°	1585.3	1609.8	1634.3	1658.8	1668.2	1677.5	1686.9	1696.3	1705.6	1715.0	1724.4
35°	1621.4	1649.3	1677.1	1705.0	1716.8	1728.6	1740.4	1752.2	1764.1	1775.9	1787.7
37.5°	1662.8	1694.9	1727.0	1759.1	1773.4	1787.6	1801.9	1816.2	1830.4	1844.7	1859.0
40°	1716.3	1754.0	1791.6	1829.3	1845.6	1861.9	1878.1	1894.4	1910.7	1927.0	1943.2
42.5°	1775.2	1818.7	1862.1	1905.6	1924.5	1943.5	1962.4	1981.3	2000.3	2019.2	2038.1
45°	1839.4	1889.5	1939.7	1989.8	2012.3	2034.8	2057.3	2079.8	2102.4	2124.9	2147.4
47.5°	1914.9	1972.0	2029.0	2086.1	2112.8	2139.6	2166.3	2193.1	2219.8	2246.6	2273.3
50°	2009.8	2076.0	2142.2	2208.4	2237.8	2267.2	2296.7	2326.1	2355.5	2384.9	2414.4
52.5°	2104.1	2178.4	2252.6	2326.8	2359.8	2392.8	2425.7	2458.7	2491.7	2524.7	2557.6
55°	2210.5	2293.4	2376.3	2459.2	2494.6	2530.1	2565.5	2600.9	2636.4	2671.8	2707.2
57.5°	2321.5	2412.2	2502.9	2593.6	2631.3	2668.9	2706.6	2744.2	2781.9	2819.5	2857.2
60°	2431.1	2528.7	2626.3	2723.9	2761.6	2799.2	2836.9	2874.6	2912.2	2949.9	2987.6
62.5°	2535.4	2639.0	2742.7	2846.3	2884.6	2923.0	2961.3	2999.6	3038.0	3076.3	3114.6
65°	2625.0	2732.9	2840.7	2948.6	2985.4	3022.2	3058.9	3095.7	3132.5	3169.3	3206.0
67.5°	2687.2	2796.4	2905.6	3014.8	3049.6	3084.3	3119.1	3153.9	3188.6	3223.4	3258.2
70°	2712.6	2821.4	2930.1	3038.9	3071.9	3104.9	3137.8	3170.8	3203.8	3236.8	3269.7
72.5°	2692.5	2798.6	2904.7	3010.8	3042.2	3073.6	3105.1	3136.5	3167.9	3199.3	3230.8
75°	2627.0	2728.1	2829.3	2930.5	2960.4	2990.2	3020.1	3050.0	3079.8	3109.7	3139.6
77.5°	2514.7	2609.2	2703.7	2798.2	2826.7	2855.2	2883.8	2912.3	2940.8	2969.3	2997.9
80°	2365.6	2453.6	2541.7	2629.7	2656.4	2683.2	2709.9	2736.7	2763.4	2790.2	2816.9
82.5°	2196.4	2274.6	2352.9	2431.1	2456.7	2482.4	2508.0	2533.6	2559.3	2584.9	2610.5
85°	2009.9	2080.1	2150.3	2220.5	2244.8	2269.1	2293.4	2317.7	2341.9	2366.2	2390.5
87.5°	1826.7	1889.7	1952.8	2015.9	2038.6	2061.4	2084.1	2106.8	2129.6	2152.3	2175.0
90°	1657.5	1716.1	1774.7	1833.3	1854.7	1876.1	1897.5	1918.9	1940.3	1961.7	1983.1
92.5°	1520.4	1573.3	1626.1	1678.9	1699.0	1719.0	1739.1	1759.1	1779.2	1799.2	1819.3
95°	1405.4	1455.1	1504.8	1554.5	1573.2	1591.9	1610.7	1629.4	1648.1	1666.8	1685.6
97.5°	1305.1	1352.2	1399.2	1446.2	1464.3	1482.3	1500.4	1518.4	1536.5	1554.5	1572.6
100°	1221.6	1267.1	1312.5	1358.0	1375.6	1393.2	1410.8	1428.4	1446.0	1463.6	1481.2
102.5°	1153.4	1198.2	1243.0	1287.8	1305.0	1322.1	1339.3	1356.4	1373.6	1390.7	1407.9
105°	1091.2	1135.3	1179.5	1223.6	1240.5	1257.5	1274.4	1291.3	1308.3	1325.2	1342.1
107.5°	1035.0	1078.5	1121.9	1165.4	1182.1	1198.8	1215.5	1232.2	1249.0	1265.7	1282.4
110°	979.5	1022.7	1066.0	1109.2	1125.9	1142.6	1159.4	1176.1	1192.8	1209.5	1226.3



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-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°	925.4	967.3	1009.2	1051.1	1067.4	1083.6	1099.9	1116.2	1132.4	1148.7	1165.0
115°	869.2	909.1	949.0	988.9	1004.7	1020.5	1036.4	1052.2	1068.0	1083.8	1099.7
117.5°	813.7	852.0	890.4	928.7	943.9	959.0	974.2	989.3	1004.5	1019.6	1034.8
120°	759.5	797.2	834.8	872.5	886.8	901.0	915.3	929.6	943.8	958.1	972.4
122.5°	702.1	739.5	777.0	814.4	828.4	842.5	856.5	870.5	884.6	898.6	912.6
125°	641.9	677.3	712.8	748.2	762.5	776.7	791.0	805.3	819.5	833.8	848.1
127.5°	578.4	610.9	643.5	676.0	690.3	704.5	718.8	733.0	747.3	761.5	775.8
130°	510.1	540.0	569.8	599.7	613.3	626.9	640.5	654.1	667.7	681.3	694.9
132.5°	446.6	474.2	501.9	529.5	541.5	553.6	565.6	577.7	589.7	601.8	613.8
135°	388.5	413.5	438.4	463.4	473.4	483.4	493.5	503.5	513.5	523.5	533.6
137.5°	333.0	355.1	377.1	399.2	408.1	417.0	425.9	434.8	443.8	452.7	461.6
140°	278.2	296.4	314.7	333.0	342.1	351.3	360.4	369.5	378.7	387.8	396.9
142.5°	230.7	246.0	261.4	276.8	285.7	294.6	303.5	312.4	321.4	330.3	339.2
145°	189.2	202.4	215.5	228.7	237.4	246.1	254.8	263.5	272.1	280.8	289.5
147.5°	151.1	161.6	172.0	182.5	191.4	200.3	209.3	218.2	227.1	236.0	245.0
150°	118.3	127.0	135.7	144.4	152.6	160.9	169.1	177.4	185.6	193.9	202.1
152.5°	87.6	94.5	101.4	108.3	116.1	123.9	131.7	139.5	147.3	155.1	162.9
155°	62.2	67.5	72.9	78.2	85.1	92.0	98.9	105.8	112.8	119.7	126.6
157.5°	40.1	44.2	48.2	52.2	58.0	63.8	69.6	75.4	81.1	86.9	92.7
160°	22.7	25.2	27.6	30.1	34.6	39.0	43.5	47.9	52.4	56.8	61.3
162.5°	8.7	9.8	10.9	12.0	15.3	18.7	22.0	25.4	28.7	32.1	35.4
165°	1.3	1.6	1.8	2.0	3.8	5.6	7.4	9.2	10.9	12.7	14.5
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: P201391

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1251.6	1251.6
2.5°	1273.3	1271.7
5°	1310.2	1309.8
7.5°	1341.9	1341.9
10°	1368.0	1368.0
12.5°	1399.2	1400.1
15°	1428.4	1430.2
17.5°	1469.4	1472.3
20°	1510.6	1514.4
22.5°	1550.3	1554.5
25°	1593.3	1598.7
27.5°	1636.1	1642.8
30°	1681.5	1688.9
32.5°	1733.7	1743.1
35°	1799.5	1811.3
37.5°	1873.2	1887.5
40°	1959.5	1975.8
42.5°	2057.1	2076.0
45°	2169.9	2192.4
47.5°	2300.1	2326.8
50°	2443.8	2473.2
52.5°	2590.6	2623.6
55°	2742.7	2778.1
57.5°	2894.8	2932.5
60°	3025.2	3062.9
62.5°	3153.0	3191.3
65°	3242.8	3279.6
67.5°	3292.9	3327.7
70°	3302.7	3335.7
72.5°	3262.2	3293.6
75°	3169.4	3199.3
77.5°	3026.4	3054.9
80°	2843.7	2870.4
82.5°	2636.2	2661.8
85°	2414.8	2439.1
87.5°	2197.8	2220.5
90°	2004.5	2025.9
92.5°	1839.3	1859.4
95°	1704.3	1723.0
97.5°	1590.6	1608.7
100°	1498.8	1516.4
102.5°	1425.0	1442.2
105°	1359.1	1376.0
107.5°	1299.1	1315.8
110°	1243.0	1259.7



TEST NUMBER: P201391

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1181.2	1197.5
115°	1115.5	1131.3
117.5°	1049.9	1065.1
120°	986.6	1000.9
122.5°	926.7	940.7
125°	862.3	876.6
127.5°	790.0	804.3
130°	708.5	722.1
132.5°	625.9	637.9
135°	543.6	553.6
137.5°	470.5	479.4
140°	406.1	415.2
142.5°	348.1	357.0
145°	298.2	306.9
147.5°	253.9	262.8
150°	210.4	218.6
152.5°	170.7	178.5
155°	133.5	140.4
157.5°	98.5	104.3
160°	65.7	70.2
162.5°	38.8	42.1
165°	16.3	18.1
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)