

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: P201352

Luminaire Tested: **4LBLED-LD4-10-ASYMF-UNV-L840-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28237)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-10-ASYMF-UNV-L840-CD2-U  
Description: 4 ft. Low Bay Linear, 10000 lm, Frst Asym lens, 4K  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
2UT217098A8404C, 2UT217056A8404B  
Ballast/Driver: OSRAM  
OT50W0100CC, OT50W0760CC

**Summary**

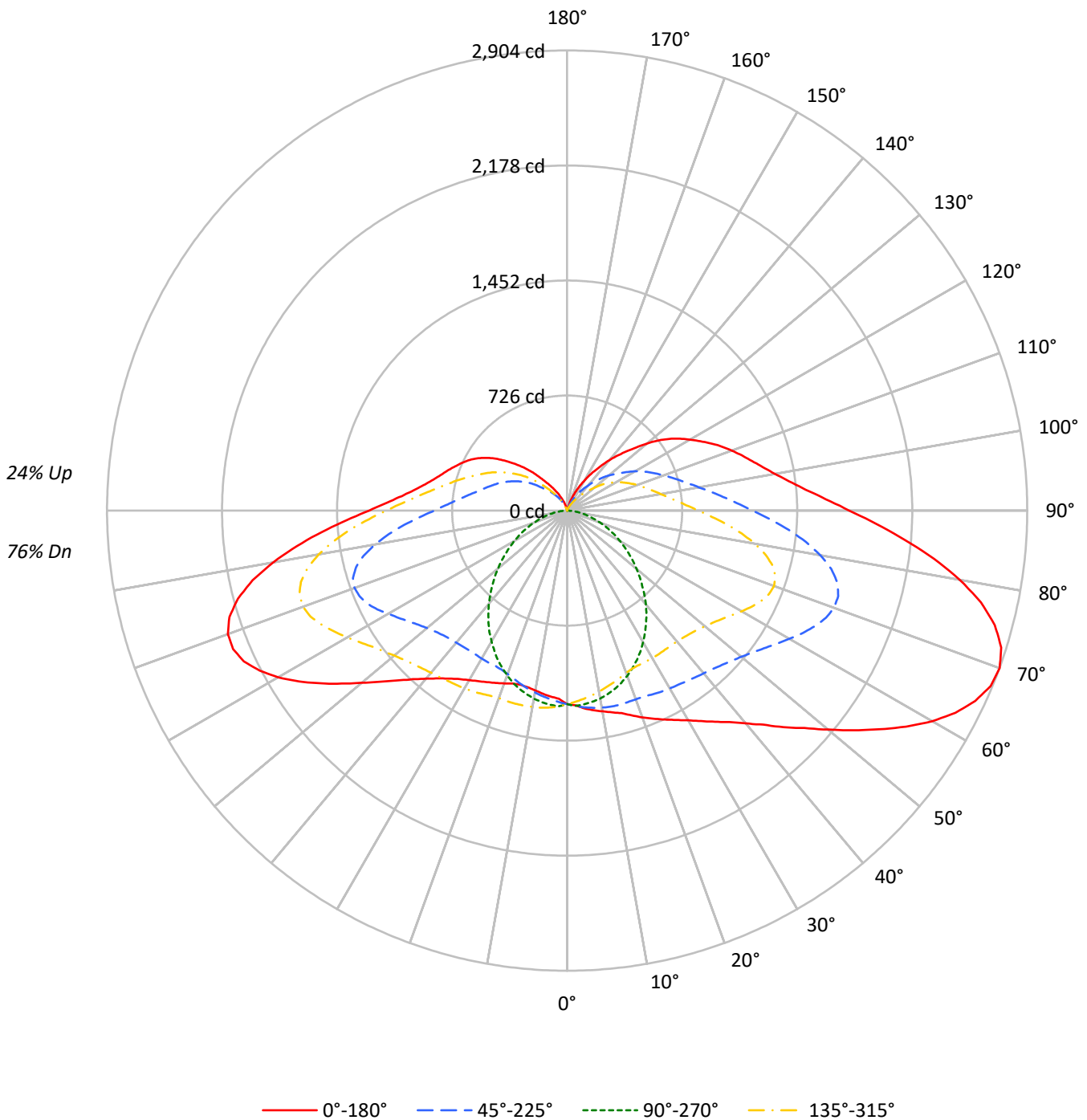
Lumens per Lamp: N/A  
Luminaire Lumens: 10537.2 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 2 / 1.17 / 1.77  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 82.8  
Input Voltage (V): NR  
Input 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°	19683	19683	19683	19683
5°	18285	19765	17189	19813
10°	17261	19529	15462	19545
15°	16555	19159	14240	19159
20°	16396	18672	13693	18622
25°	16360	18062	13435	18027
30°	16546	17331	13372	17222
35°	17092	16482	13592	16425
40°	18028	15566	14241	15485
45°	19616	14498	15372	14477
50°	21695	13509	17060	13462
55°	24326	12453	19217	12427
60°	27143	11418	21485	11388
65°	29521	10294	23390	10329
70°	30943	9073	24281	9073
75°	30799	7722	23709	7826
80°	28966	6163	21690	6306
85°	25991	4059	18865	4291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	1.1
10°-20°	338.2	3.2
20°-30°	544.5	5.2
30°-40°	737.0	7.0
40°-50°	944.5	9.0
50°-60°	1207.2	11.5
60°-70°	1475.3	14.0
70°-80°	1507.6	14.3
80°-90°	1181.8	11.2
90°-100°	824.2	7.8
100°-110°	614.1	5.8
110°-120°	460.1	4.4
120°-130°	312.7	3.0
130°-140°	173.5	1.6
140°-150°	75.1	0.7
150°-160°	22.9	0.2
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	998.7	9.5
0°-40°	1735.7	16.5
0°-60°	3887.4	36.9
0°-90°	8052.1	76.4
90°-120°	1898.4	18.0
90°-150°	2459.7	23.3
90°-180°	2485.0	23.6
0°-180°	10537.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1222	1222	1222	1222	1222	
5°	1254	1228	1178	1230	1254	121
15°	1324	1164	1138	1164	1324	378
25°	1455	1040	1194	1038	1455	676
35°	1627	868	1294	865	1627	1027
45°	1933	669	1515	668	1933	1504
55°	2406	476	1901	475	2406	2163
65°	2842	300	2252	301	2842	2800
75°	2794	148	2151	150	2794	2921
85°	2142	35	1555	37	2142	1828
90°	1779	0	1250	1	1779	979
95°	1512	0	1048	1	1512	1200
105°	1208	0	837	1	1208	1283
115°	1002	0	722	1	1002	996
125°	789	0	575	1	789	706
135°	526	0	380	1	526	413
145°	311	0	201	1	311	200
155°	141	0	91	2	141	68
165°	24	0	18	2	24	9
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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1229.5	1229.4	1229.3	1229.2	1229.1	1228.9	1228.8	1228.7	1228.6	1228.5	1229.3
5°	1253.6	1252.6	1251.6	1250.6	1249.6	1248.6	1247.6	1246.6	1245.6	1244.6	1244.8
7.5°	1270.6	1269.3	1267.9	1266.6	1265.3	1263.9	1262.6	1261.3	1259.9	1258.6	1258.3
10°	1286.6	1284.8	1283.0	1281.3	1279.5	1277.7	1275.9	1274.2	1272.4	1270.6	1269.7
12.5°	1303.6	1301.4	1299.2	1296.9	1294.7	1292.5	1290.3	1288.0	1285.8	1283.6	1281.8
15°	1323.6	1321.2	1318.7	1316.3	1313.8	1311.4	1308.9	1306.5	1304.0	1301.6	1298.0
17.5°	1354.6	1350.8	1347.0	1343.3	1339.5	1335.7	1331.9	1328.2	1324.4	1320.6	1314.7
20°	1389.6	1384.4	1379.2	1373.9	1368.7	1363.5	1358.3	1353.0	1347.8	1342.6	1334.3
22.5°	1421.6	1415.7	1409.8	1403.9	1398.0	1392.2	1386.3	1380.4	1374.5	1368.6	1357.6
25°	1454.6	1448.3	1441.9	1435.6	1429.3	1422.9	1416.6	1410.3	1403.9	1397.6	1384.4
27.5°	1489.7	1482.6	1475.5	1468.3	1461.2	1454.1	1447.0	1439.8	1432.7	1425.6	1410.4
30°	1528.7	1520.4	1512.0	1503.7	1495.3	1487.0	1478.6	1470.3	1461.9	1453.6	1436.0
32.5°	1574.7	1564.8	1554.9	1545.0	1535.1	1525.3	1515.4	1505.5	1495.6	1485.7	1465.5
35°	1626.7	1615.4	1604.0	1592.7	1581.4	1570.0	1558.7	1547.4	1536.0	1524.7	1501.2
37.5°	1681.7	1669.1	1656.6	1644.0	1631.5	1618.9	1606.4	1593.8	1581.3	1568.7	1541.8
40°	1752.8	1738.1	1723.4	1708.8	1694.1	1679.4	1664.7	1650.1	1635.4	1620.7	1589.6
42.5°	1831.8	1815.1	1798.4	1781.8	1765.1	1748.4	1731.7	1715.1	1698.4	1681.7	1645.7
45°	1932.9	1913.0	1893.1	1873.2	1853.3	1833.4	1813.5	1793.6	1773.7	1753.8	1712.1
47.5°	2030.9	2009.3	1987.8	1966.2	1944.6	1923.1	1901.5	1879.9	1858.4	1836.8	1788.8
50°	2150.0	2125.7	2101.3	2077.0	2052.6	2028.3	2003.9	1979.6	1955.2	1930.9	1875.8
52.5°	2277.0	2250.3	2223.6	2197.0	2170.3	2143.6	2116.9	2090.3	2063.6	2036.9	1974.1
55°	2406.1	2377.4	2348.7	2320.1	2291.4	2262.7	2234.0	2205.4	2176.7	2148.0	2077.7
57.5°	2537.1	2506.9	2476.6	2446.4	2416.2	2385.9	2355.7	2325.5	2295.2	2265.0	2187.2
60°	2659.2	2628.1	2597.0	2565.8	2534.7	2503.6	2472.5	2441.3	2410.2	2379.1	2294.6
62.5°	2762.2	2731.4	2700.6	2669.8	2639.0	2608.3	2577.5	2546.7	2515.9	2485.1	2395.1
65°	2842.3	2812.4	2782.5	2752.6	2722.7	2692.7	2662.8	2632.9	2603.0	2573.1	2479.0
67.5°	2892.3	2863.4	2834.5	2805.6	2776.7	2747.8	2718.9	2690.0	2661.1	2632.2	2536.2
70°	2904.3	2877.0	2849.6	2822.3	2794.9	2767.6	2740.2	2712.9	2685.5	2658.2	2562.0
72.5°	2872.3	2846.5	2820.7	2794.9	2769.1	2743.4	2717.6	2691.8	2666.0	2640.2	2546.2
75°	2794.2	2770.1	2746.0	2721.8	2697.7	2673.6	2649.5	2625.3	2601.2	2577.1	2487.1
77.5°	2674.2	2651.4	2628.6	2605.8	2583.0	2560.3	2537.5	2514.7	2491.9	2469.1	2384.6
80°	2517.1	2495.9	2474.6	2453.4	2432.2	2410.9	2389.7	2368.5	2347.2	2326.0	2247.9
82.5°	2337.0	2317.2	2297.4	2277.7	2257.9	2238.1	2218.3	2198.6	2178.8	2159.0	2088.0
85°	2141.9	2123.7	2105.5	2087.2	2069.0	2050.8	2032.6	2014.3	1996.1	1977.9	1914.1
87.5°	1952.9	1935.3	1917.8	1900.2	1882.6	1865.1	1847.5	1829.9	1812.4	1794.8	1737.9
90°	1778.8	1762.5	1746.1	1729.8	1713.4	1697.1	1680.7	1664.4	1648.0	1631.7	1580.2
92.5°	1633.7	1618.3	1602.8	1587.4	1571.9	1556.5	1541.0	1525.6	1510.1	1494.7	1447.8
95°	1511.7	1497.1	1482.6	1468.0	1453.4	1438.9	1424.3	1409.7	1395.2	1380.6	1336.9
97.5°	1412.6	1398.4	1384.2	1369.9	1355.7	1341.5	1327.3	1313.0	1298.8	1284.6	1243.1
100°	1330.6	1316.6	1302.6	1288.6	1274.6	1260.5	1246.5	1232.5	1218.5	1204.5	1164.5
102.5°	1264.6	1250.6	1236.6	1222.6	1208.6	1194.5	1180.5	1166.5	1152.5	1138.5	1099.5
105°	1207.5	1193.6	1179.7	1165.8	1151.9	1138.1	1124.2	1110.3	1096.4	1082.5	1044.0
107.5°	1156.5	1142.5	1128.5	1114.5	1100.5	1086.5	1072.5	1058.5	1044.5	1030.5	992.9
110°	1106.5	1092.6	1078.7	1064.8	1050.9	1037.0	1023.1	1009.2	995.3	981.4	944.5



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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°	1056.5	1042.5	1028.5	1014.5	1000.5	986.4	972.4	958.4	944.4	930.4	894.7
115°	1002.4	988.7	975.1	961.4	947.7	934.1	920.4	906.7	893.1	879.4	845.3
117.5°	947.4	934.3	921.2	908.1	895.0	881.8	868.7	855.6	842.5	829.4	796.7
120°	894.4	882.1	869.7	857.4	845.0	832.7	820.3	808.0	795.6	783.3	751.5
122.5°	844.4	832.4	820.4	808.4	796.4	784.3	772.3	760.3	748.3	736.3	704.8
125°	789.3	777.6	766.0	754.3	742.6	731.0	719.3	707.6	696.0	684.3	654.3
127.5°	728.3	717.0	705.6	694.3	683.0	671.6	660.3	649.0	637.6	626.3	598.8
130°	659.3	648.7	638.2	627.6	617.0	606.5	595.9	585.3	574.8	564.2	539.9
132.5°	588.3	579.3	570.3	561.3	552.3	543.2	534.2	525.2	516.2	507.2	485.4
135°	526.2	518.5	510.9	503.2	495.5	487.9	480.2	472.5	464.9	457.2	437.1
137.5°	470.2	463.2	456.2	449.2	442.2	435.2	428.2	421.2	414.2	407.2	388.9
140°	415.2	408.9	402.5	396.2	389.9	383.5	377.2	370.9	364.5	358.2	341.5
142.5°	362.2	356.5	350.8	345.2	339.5	333.8	328.1	322.5	316.8	311.1	296.4
145°	311.1	306.3	301.5	296.8	292.0	287.2	282.4	277.7	272.9	268.1	255.2
147.5°	265.1	260.5	256.0	251.4	246.9	242.3	237.8	233.2	228.7	224.1	213.2
150°	219.1	215.4	211.8	208.1	204.4	200.8	197.1	193.4	189.8	186.1	176.6
152.5°	179.1	175.9	172.7	169.4	166.2	163.0	159.8	156.5	153.3	150.1	142.1
155°	141.1	138.4	135.8	133.1	130.4	127.8	125.1	122.4	119.8	117.1	110.1
157.5°	106.0	103.9	101.8	99.7	97.6	95.4	93.3	91.2	89.1	87.0	81.3
160°	74.0	72.1	70.2	68.3	66.4	64.6	62.7	60.8	58.9	57.0	53.1
162.5°	44.0	42.9	41.8	40.7	39.6	38.4	37.3	36.2	35.1	34.0	31.7
165°	24.0	23.3	22.7	22.0	21.3	20.7	20.0	19.3	18.7	18.0	16.8
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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1230.1	1230.8	1231.6	1232.4	1233.2	1233.9	1234.7	1235.5	1233.8	1232.2	1230.5
5°	1245.0	1245.3	1245.5	1245.7	1245.9	1246.2	1246.4	1246.6	1244.0	1241.5	1238.9
7.5°	1257.9	1257.6	1257.3	1256.9	1256.6	1256.3	1255.9	1255.6	1251.9	1248.2	1244.6
10°	1268.8	1267.9	1267.0	1266.2	1265.3	1264.4	1263.5	1262.6	1257.5	1252.4	1247.2
12.5°	1280.0	1278.3	1276.5	1274.7	1272.9	1271.2	1269.4	1267.6	1261.0	1254.5	1247.9
15°	1294.5	1290.9	1287.4	1283.8	1280.3	1276.7	1273.2	1269.6	1261.7	1253.8	1245.9
17.5°	1308.8	1302.9	1297.0	1291.2	1285.3	1279.4	1273.5	1267.6	1258.3	1248.9	1239.6
20°	1325.9	1317.6	1309.3	1300.9	1292.6	1284.3	1275.9	1267.6	1256.3	1244.9	1233.6
22.5°	1346.6	1335.6	1324.6	1313.6	1302.6	1291.6	1280.6	1269.6	1255.8	1242.0	1228.2
25°	1371.2	1357.9	1344.7	1331.5	1318.3	1305.0	1291.8	1278.6	1261.3	1243.9	1226.6
27.5°	1395.2	1379.9	1364.7	1349.5	1334.3	1319.0	1303.8	1288.6	1267.4	1246.1	1224.9
30°	1418.5	1400.9	1383.4	1365.8	1348.3	1330.7	1313.2	1295.6	1270.7	1245.8	1220.9
32.5°	1445.2	1425.0	1404.8	1384.5	1364.3	1344.1	1323.8	1303.6	1274.8	1246.0	1217.2
35°	1477.8	1454.3	1430.9	1407.4	1384.0	1360.5	1337.1	1313.6	1280.7	1247.8	1214.9
37.5°	1514.9	1488.0	1461.1	1434.2	1407.3	1380.4	1353.5	1326.6	1289.6	1252.6	1215.5
40°	1558.5	1527.3	1496.2	1465.1	1434.0	1402.8	1371.7	1340.6	1299.8	1259.0	1218.2
42.5°	1609.7	1573.7	1537.7	1501.6	1465.6	1429.6	1393.6	1357.6	1312.7	1267.8	1222.9
45°	1670.4	1628.7	1587.0	1545.4	1503.7	1462.0	1420.3	1378.6	1329.1	1279.7	1230.2
47.5°	1740.8	1692.7	1644.7	1596.7	1548.7	1500.6	1452.6	1404.6	1349.9	1295.2	1240.5
50°	1820.6	1765.5	1710.3	1655.2	1600.0	1544.9	1489.7	1434.6	1374.4	1314.1	1253.9
52.5°	1911.3	1848.5	1785.7	1722.9	1660.1	1597.3	1534.5	1471.7	1405.4	1339.2	1272.9
55°	2007.5	1937.2	1867.0	1796.7	1726.5	1656.2	1586.0	1515.7	1442.6	1369.4	1296.3
57.5°	2109.4	2031.6	1953.8	1875.9	1798.1	1720.3	1642.5	1564.7	1484.4	1404.2	1323.9
60°	2210.1	2125.6	2041.1	1956.7	1872.2	1787.7	1703.2	1618.7	1530.9	1443.1	1355.3
62.5°	2305.0	2215.0	2124.9	2034.9	1944.8	1854.8	1764.7	1674.7	1579.1	1483.5	1387.9
65°	2384.8	2290.7	2196.5	2102.4	2008.2	1914.1	1819.9	1725.8	1623.0	1520.2	1417.3
67.5°	2440.1	2344.1	2248.0	2152.0	2055.9	1959.9	1863.8	1767.8	1658.6	1549.5	1440.3
70°	2465.9	2369.7	2273.6	2177.4	2081.3	1985.1	1889.0	1792.8	1678.7	1564.7	1450.6
72.5°	2452.1	2358.1	2264.0	2170.0	2075.9	1981.9	1887.8	1793.8	1677.2	1560.6	1444.0
75°	2397.0	2307.0	2217.0	2126.9	2036.9	1946.9	1856.8	1766.8	1650.2	1533.6	1417.0
77.5°	2300.1	2215.7	2131.2	2046.7	1962.2	1877.8	1793.3	1708.8	1595.2	1481.6	1368.0
80°	2169.7	2091.6	2013.4	1935.3	1857.1	1779.0	1700.8	1622.7	1514.7	1406.6	1298.6
82.5°	2016.9	1945.9	1874.9	1803.8	1732.8	1661.8	1590.7	1519.7	1418.5	1317.4	1216.2
85°	1850.3	1786.5	1722.7	1658.8	1595.0	1531.2	1467.4	1403.6	1310.6	1217.5	1124.5
87.5°	1681.0	1624.1	1567.2	1510.2	1453.3	1396.4	1339.5	1282.6	1198.1	1113.6	1029.1
90°	1528.8	1477.3	1425.8	1374.4	1322.9	1271.4	1220.0	1168.5	1091.7	1014.9	938.1
92.5°	1400.9	1354.0	1307.1	1260.1	1213.2	1166.3	1119.4	1072.5	1002.6	932.7	862.7
95°	1293.2	1249.5	1205.8	1162.2	1118.5	1074.8	1031.1	987.4	923.3	859.1	795.0
97.5°	1201.7	1160.2	1118.7	1077.3	1035.8	994.3	952.9	911.4	852.0	792.7	733.3
100°	1124.5	1084.5	1044.5	1004.4	964.4	924.4	884.4	844.4	789.2	733.9	678.7
102.5°	1060.5	1021.4	982.4	943.4	904.4	865.3	826.3	787.3	734.9	682.6	630.2
105°	1005.6	967.1	928.6	890.2	851.7	813.2	774.8	736.3	686.5	636.7	586.9
107.5°	955.3	917.8	880.2	842.6	805.0	767.5	729.9	692.3	644.6	596.9	549.2
110°	907.6	870.7	833.8	796.9	760.0	723.1	686.2	649.3	603.6	557.9	512.2





TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	859.0	823.4	787.7	752.0	716.3	680.7	645.0	609.3	565.3	521.3	477.2
115°	811.2	777.0	742.9	708.8	674.7	640.5	606.4	572.3	530.3	488.3	446.2
117.5°	764.0	731.3	698.6	666.0	633.3	600.6	567.9	535.2	495.3	455.4	415.5
120°	719.7	687.9	656.1	624.4	592.6	560.8	529.0	497.2	459.7	422.3	384.8
122.5°	673.4	641.9	610.5	579.0	547.6	516.1	484.7	453.2	418.9	384.5	350.2
125°	624.3	594.3	564.3	534.2	504.2	474.2	444.2	414.2	382.4	350.6	318.8
127.5°	571.4	543.9	516.5	489.0	461.6	434.1	406.7	379.2	349.7	320.3	290.8
130°	515.5	491.2	466.9	442.5	418.2	393.9	369.5	345.2	317.8	290.5	263.1
132.5°	463.6	441.8	420.0	398.3	376.5	354.7	332.9	311.1	286.1	261.1	236.1
135°	417.0	396.8	376.7	356.6	336.5	316.3	296.2	276.1	253.4	230.7	208.1
137.5°	370.5	352.2	333.8	315.5	297.1	278.8	260.4	242.1	221.6	201.2	180.7
140°	324.8	308.2	291.5	274.8	258.1	241.5	224.8	208.1	190.0	171.9	153.7
142.5°	281.8	267.1	252.4	237.8	223.1	208.4	193.8	179.1	163.0	146.9	130.7
145°	242.3	229.4	216.5	203.7	190.8	177.9	165.0	152.1	138.1	124.1	110.1
147.5°	202.3	191.4	180.5	169.7	158.8	147.9	137.0	126.1	114.2	102.3	90.4
150°	167.2	157.7	148.3	138.8	129.4	119.9	110.5	101.0	91.3	81.7	72.0
152.5°	134.1	126.1	118.1	110.0	102.0	94.0	86.0	78.0	70.4	62.9	55.3
155°	103.1	96.1	89.1	82.0	75.0	68.0	61.0	54.0	48.8	43.6	38.3
157.5°	75.7	70.0	64.3	58.7	53.0	47.3	41.7	36.0	32.4	28.9	25.3
160°	49.2	45.3	41.4	37.6	33.7	29.8	25.9	22.0	19.8	17.6	15.3
162.5°	29.3	27.0	24.7	22.3	20.0	17.7	15.3	13.0	11.7	10.3	9.0
165°	15.6	14.3	13.1	11.9	10.7	9.4	8.2	7.0	6.2	5.4	4.7
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: P201352

CATALOG NUMBER: 4LBLELD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1228.8	1227.2	1225.5	1223.8	1222.2	1220.5	1221.9	1223.4	1224.8	1226.3	1227.7
5°	1236.3	1233.8	1231.2	1228.6	1226.1	1223.5	1223.9	1224.4	1224.8	1225.3	1225.7
7.5°	1240.9	1237.2	1233.5	1229.9	1226.2	1222.5	1221.9	1221.4	1220.8	1220.3	1219.7
10°	1242.1	1237.0	1231.9	1226.7	1221.6	1216.5	1215.2	1213.8	1212.5	1211.2	1209.8
12.5°	1241.3	1234.8	1228.2	1221.6	1215.1	1208.5	1205.9	1203.4	1200.8	1198.3	1195.7
15°	1238.0	1230.1	1222.2	1214.3	1206.4	1198.5	1194.7	1190.9	1187.2	1183.4	1179.6
17.5°	1230.2	1220.9	1211.5	1202.2	1192.8	1183.5	1178.5	1173.5	1168.5	1163.5	1158.5
20°	1222.2	1210.9	1199.5	1188.2	1176.8	1165.5	1159.3	1153.1	1146.8	1140.6	1134.4
22.5°	1214.4	1200.7	1186.9	1173.1	1159.3	1145.5	1137.8	1130.2	1122.5	1114.8	1107.2
25°	1209.2	1191.9	1174.5	1157.2	1139.8	1122.5	1113.4	1104.3	1095.2	1086.1	1076.9
27.5°	1203.7	1182.4	1161.2	1140.0	1118.7	1097.5	1086.8	1076.1	1065.5	1054.8	1044.1
30°	1196.0	1171.1	1146.2	1121.3	1096.4	1071.5	1059.0	1046.6	1034.1	1021.7	1009.2
32.5°	1188.4	1159.7	1130.9	1102.1	1073.3	1044.5	1030.0	1015.6	1001.1	986.7	972.2
35°	1182.0	1149.1	1116.2	1083.3	1050.4	1017.5	1000.9	984.4	967.8	951.2	934.7
37.5°	1178.5	1141.5	1104.5	1067.4	1030.4	993.4	974.3	955.2	936.1	917.0	897.8
40°	1177.4	1136.6	1095.8	1055.0	1014.2	973.4	951.1	928.7	906.4	884.0	861.7
42.5°	1178.0	1133.0	1088.1	1043.2	998.3	953.4	927.7	902.0	876.4	850.7	825.0
45°	1180.7	1131.3	1081.8	1032.3	982.9	933.4	904.1	874.7	845.4	816.0	786.7
47.5°	1185.8	1131.2	1076.5	1021.8	967.1	912.4	879.9	847.5	815.0	782.6	750.1
50°	1193.6	1133.4	1073.1	1012.9	952.6	892.4	856.8	821.3	785.7	750.1	714.6
52.5°	1206.7	1140.4	1074.2	1007.9	941.7	875.4	836.4	797.4	758.3	719.3	680.3
55°	1223.1	1150.0	1076.8	1003.7	930.5	857.4	815.0	772.7	730.3	688.0	645.6
57.5°	1243.7	1163.4	1083.2	1002.9	922.7	842.4	796.5	750.6	704.7	658.8	612.8
60°	1267.5	1179.6	1091.8	1004.0	916.2	828.4	779.3	730.1	681.0	631.9	582.7
62.5°	1292.3	1196.8	1101.2	1005.6	910.0	814.4	761.9	709.5	657.0	604.5	552.1
65°	1314.5	1211.7	1108.9	1006.0	903.2	800.4	744.8	689.2	633.6	578.0	522.5
67.5°	1331.1	1222.0	1112.8	1003.6	894.5	785.3	726.9	668.6	610.2	551.9	493.5
70°	1336.6	1222.5	1108.5	994.4	880.4	766.3	705.6	644.9	584.2	523.5	462.9
72.5°	1327.4	1210.7	1094.1	977.5	860.9	744.3	681.9	619.6	557.2	494.9	432.5
75°	1300.4	1183.7	1067.1	950.5	833.9	717.3	654.1	590.8	527.6	464.3	401.1
77.5°	1254.4	1140.7	1027.1	913.5	799.9	686.3	622.9	559.6	496.2	432.9	369.5
80°	1190.5	1082.5	974.4	866.4	758.3	650.3	587.6	524.9	462.2	399.5	336.8
82.5°	1115.1	1013.9	912.8	811.6	710.5	609.3	548.2	487.0	425.9	364.7	303.6
85°	1031.5	938.4	845.4	752.4	659.3	566.3	507.3	448.2	389.2	330.2	271.1
87.5°	944.6	860.2	775.7	691.2	606.7	522.2	465.6	409.0	352.5	295.9	239.3
90°	861.3	784.4	707.6	630.8	554.0	477.2	424.2	371.2	318.1	265.1	212.1
92.5°	792.8	722.9	653.0	583.0	513.1	443.2	394.0	344.7	295.5	246.2	197.0
95°	730.9	666.7	602.6	538.5	474.3	410.2	364.6	319.0	273.5	227.9	182.3
97.5°	674.0	614.6	555.3	495.9	436.6	377.2	335.3	293.4	251.5	209.6	167.6
100°	623.4	568.2	512.9	457.7	402.4	347.2	308.6	270.0	231.5	192.9	154.3
102.5°	577.9	525.5	473.2	420.8	368.5	316.1	281.0	245.9	210.7	175.6	140.5
105°	537.1	487.3	437.5	387.7	337.9	288.1	256.1	224.1	192.1	160.1	128.0
107.5°	501.5	453.9	406.2	358.5	310.8	263.1	233.9	204.6	175.4	146.2	116.9
110°	466.5	420.9	375.2	329.5	283.8	238.1	211.6	185.2	158.7	132.3	105.8



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	433.2	389.2	345.2	301.1	257.1	213.1	189.4	165.7	142.1	118.4	94.7
115°	404.2	362.2	320.2	278.1	236.1	194.1	172.5	151.0	129.4	107.8	86.3
117.5°	375.6	335.7	295.8	255.9	216.0	176.1	156.5	137.0	117.4	97.8	78.3
120°	347.4	309.9	272.5	235.0	197.6	160.1	142.3	124.5	106.7	88.9	71.2
122.5°	315.8	281.5	247.1	212.8	178.4	144.1	128.1	112.1	96.1	80.1	64.0
125°	287.0	255.3	223.5	191.7	159.9	128.1	113.9	99.6	85.4	71.2	56.9
127.5°	261.4	231.9	202.5	173.0	143.6	114.1	101.4	88.7	76.1	63.4	50.7
130°	235.8	208.4	181.1	153.7	126.4	99.0	88.0	77.0	66.0	55.0	44.0
132.5°	211.1	186.0	161.0	136.0	111.0	86.0	76.4	66.9	57.3	47.8	38.2
135°	185.4	162.7	140.0	117.4	94.7	72.0	64.0	56.0	48.0	40.0	32.0
137.5°	160.3	139.8	119.4	98.9	78.5	58.0	51.6	45.1	38.7	32.2	25.8
140°	135.6	117.5	99.4	81.2	63.1	45.0	40.0	35.0	30.0	25.0	20.0
142.5°	114.6	98.5	82.4	66.2	50.1	34.0	30.2	26.4	22.7	18.9	15.1
145°	96.1	82.0	68.0	54.0	40.0	26.0	23.1	20.2	17.3	14.4	11.6
147.5°	78.5	66.6	54.7	42.8	30.9	19.0	16.9	14.8	12.7	10.6	8.4
150°	62.3	52.7	43.0	33.3	23.7	14.0	12.4	10.9	9.3	7.8	6.2
152.5°	47.8	40.2	32.7	25.1	17.6	10.0	8.9	7.8	6.7	5.6	4.4
155°	33.1	27.9	22.7	17.4	12.2	7.0	6.2	5.4	4.7	3.9	3.1
157.5°	21.8	18.2	14.7	11.1	7.6	4.0	3.6	3.1	2.7	2.2	1.8
160°	13.1	10.9	8.7	6.4	4.2	2.0	1.8	1.6	1.3	1.1	0.9
162.5°	7.7	6.3	5.0	3.7	2.3	1.0	0.9	0.8	0.7	0.6	0.4
165°	3.9	3.1	2.3	1.6	0.8	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: P201352

CATALOG NUMBER: 4LBLED-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°
0°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1229.2	1230.6	1232.1	1233.5	1231.1	1228.6	1226.2	1223.7	1221.3	1218.8	1216.4
5°	1226.2	1226.6	1227.1	1227.5	1224.5	1221.5	1218.5	1215.5	1212.5	1209.5	1206.5
7.5°	1219.2	1218.6	1218.1	1217.5	1213.9	1210.4	1206.8	1203.3	1199.7	1196.2	1192.6
10°	1208.5	1207.2	1205.8	1204.5	1200.5	1196.5	1192.5	1188.5	1184.5	1180.5	1176.5
12.5°	1193.2	1190.6	1188.1	1185.5	1181.4	1177.3	1173.2	1169.1	1164.9	1160.8	1156.7
15°	1175.8	1172.1	1168.3	1164.5	1160.2	1155.8	1151.5	1147.2	1142.8	1138.5	1134.2
17.5°	1153.5	1148.5	1143.5	1138.5	1134.3	1130.1	1125.8	1121.6	1117.4	1113.2	1108.9
20°	1128.2	1121.9	1115.7	1109.5	1105.4	1101.3	1097.2	1093.1	1088.9	1084.8	1080.7
22.5°	1099.5	1091.8	1084.2	1076.5	1072.7	1068.9	1065.2	1061.4	1057.6	1053.8	1050.1
25°	1067.8	1058.7	1049.6	1040.5	1037.3	1034.0	1030.8	1027.6	1024.3	1021.1	1017.9
27.5°	1033.4	1022.8	1012.1	1001.4	998.5	995.6	992.7	989.8	987.0	984.1	981.2
30°	996.8	984.3	971.9	959.4	957.6	955.8	954.1	952.3	950.5	948.7	947.0
32.5°	957.8	943.3	928.9	914.4	913.8	913.3	912.7	912.2	911.6	911.1	910.5
35°	918.1	901.5	885.0	868.4	869.4	870.4	871.4	872.4	873.4	874.4	875.4
37.5°	878.7	859.6	840.5	821.4	824.2	827.0	829.7	832.5	835.3	838.1	840.8
40°	839.3	817.0	794.6	772.3	777.5	782.8	788.0	793.2	798.5	803.7	808.9
42.5°	799.3	773.7	748.0	722.3	730.4	738.5	746.7	754.8	762.9	771.0	779.2
45°	757.3	728.0	698.6	669.3	681.0	692.6	704.3	716.0	727.6	739.3	751.0
47.5°	717.7	685.2	652.8	620.3	635.0	649.6	664.3	679.0	693.6	708.3	723.0
50°	679.0	643.4	607.9	572.3	590.0	607.6	625.3	643.0	660.6	678.3	696.0
52.5°	641.3	602.2	563.2	524.2	545.1	566.0	586.9	607.8	628.7	649.6	670.5
55°	603.3	560.9	518.6	476.2	500.4	524.7	548.9	573.1	597.4	621.6	645.8
57.5°	566.9	521.0	475.1	429.2	456.7	484.1	511.6	539.0	566.5	593.9	621.4
60°	533.6	484.5	435.3	386.2	416.7	447.1	477.6	508.0	538.5	568.9	599.4
62.5°	499.6	447.1	394.7	342.2	375.8	409.3	442.9	476.5	510.0	543.6	577.2
65°	466.9	411.3	355.7	300.1	336.6	373.0	409.5	446.0	482.4	518.9	555.4
67.5°	435.2	376.8	318.5	260.1	298.9	337.7	376.5	415.3	454.1	492.9	531.7
70°	402.2	341.5	280.8	220.1	260.9	301.7	342.5	383.3	424.1	464.9	505.7
72.5°	370.2	307.8	245.5	183.1	225.2	267.3	309.5	351.6	393.7	435.8	478.0
75°	337.8	274.6	211.3	148.1	191.0	233.9	276.8	319.7	362.6	405.5	448.4
77.5°	306.2	242.8	179.5	116.1	159.1	202.1	245.1	288.1	331.2	374.2	417.2
80°	274.1	211.4	148.7	86.0	128.6	171.2	213.7	256.3	298.9	341.5	384.0
82.5°	242.4	181.3	120.1	59.0	100.6	142.2	183.7	225.3	266.9	308.5	350.0
85°	212.1	153.1	94.0	35.0	75.7	116.4	157.1	197.8	238.4	279.1	319.8
87.5°	182.7	126.2	69.6	13.0	51.8	90.6	129.4	168.2	207.0	245.8	284.6
90°	159.1	106.0	53.0	0.0	36.5	72.9	109.4	145.8	182.3	218.7	255.2
92.5°	147.7	98.5	49.2	0.0	34.2	68.5	102.7	136.9	171.2	205.4	239.6
95°	136.7	91.2	45.6	0.0	31.5	62.9	94.4	125.8	157.3	188.7	220.2
97.5°	125.7	83.8	41.9	0.0	29.1	58.2	87.4	116.5	145.6	174.7	203.9
100°	115.7	77.2	38.6	0.0	26.7	53.4	80.0	106.7	133.4	160.1	186.7
102.5°	105.4	70.2	35.1	0.0	24.3	48.7	73.0	97.4	121.7	146.1	170.4
105°	96.0	64.0	32.0	0.0	22.3	44.7	67.0	89.4	111.7	134.1	156.4
107.5°	87.7	58.5	29.2	0.0	20.5	40.9	61.4	81.8	102.3	122.7	143.2
110°	79.4	52.9	26.5	0.0	18.6	37.1	55.7	74.3	92.8	111.4	130.0



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	71.0	47.4	23.7	0.0	16.8	33.6	50.4	67.2	83.9	100.7	117.5
115°	64.7	43.1	21.6	0.0	15.0	30.0	45.0	60.0	75.1	90.1	105.1
117.5°	58.7	39.1	19.6	0.0	13.5	26.9	40.4	53.8	67.3	80.7	94.2
120°	53.4	35.6	17.8	0.0	12.1	24.2	36.3	48.4	60.6	72.7	84.8
122.5°	48.0	32.0	16.0	0.0	10.9	21.8	32.7	43.6	54.4	65.3	76.2
125°	42.7	28.5	14.2	0.0	9.6	19.1	28.7	38.2	47.8	57.3	66.9
127.5°	38.0	25.4	12.7	0.0	8.2	16.4	24.7	32.9	41.1	49.3	57.6
130°	33.0	22.0	11.0	0.0	6.9	13.8	20.7	27.6	34.4	41.3	48.2
132.5°	28.7	19.1	9.6	0.0	5.7	11.3	17.0	22.7	28.3	34.0	39.7
135°	24.0	16.0	8.0	0.0	4.7	9.3	14.0	18.7	23.3	28.0	32.7
137.5°	19.3	12.9	6.4	0.0	3.6	7.1	10.7	14.2	17.8	21.3	24.9
140°	15.0	10.0	5.0	0.0	2.6	5.1	7.7	10.2	12.8	15.3	17.9
142.5°	11.3	7.6	3.8	0.0	1.8	3.6	5.3	7.1	8.9	10.7	12.4
145°	8.7	5.8	2.9	0.0	1.2	2.4	3.7	4.9	6.1	7.3	8.6
147.5°	6.3	4.2	2.1	0.0	0.9	1.8	2.7	3.6	4.4	5.3	6.2
150°	4.7	3.1	1.6	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7
152.5°	3.3	2.2	1.1	0.0	0.6	1.1	1.7	2.2	2.8	3.3	3.9
155°	2.3	1.6	0.8	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
157.5°	1.3	0.9	0.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
160°	0.7	0.4	0.2	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
162.5°	0.3	0.2	0.1	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: P201352

CATALOG NUMBER: 4LBLED-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1213.9	1211.5	1211.1	1210.6	1210.2	1209.7	1209.3	1208.8	1208.4	1207.9	1207.5
5°	1203.5	1200.5	1199.6	1198.7	1197.8	1196.9	1196.1	1195.2	1194.3	1193.4	1192.5
7.5°	1189.1	1185.5	1184.5	1183.5	1182.5	1181.5	1180.5	1179.5	1178.5	1177.5	1176.5
10°	1172.5	1168.5	1167.6	1166.7	1165.8	1164.9	1164.1	1163.2	1162.3	1161.4	1160.5
12.5°	1152.6	1148.5	1147.7	1146.9	1146.2	1145.4	1144.6	1143.8	1143.1	1142.3	1141.5
15°	1129.8	1125.5	1125.4	1125.3	1125.2	1125.1	1124.9	1124.8	1124.7	1124.6	1124.5
17.5°	1104.7	1100.5	1101.2	1101.8	1102.5	1103.2	1103.8	1104.5	1105.2	1105.8	1106.5
20°	1076.6	1072.5	1074.4	1076.3	1078.2	1080.1	1081.9	1083.8	1085.7	1087.6	1089.5
22.5°	1046.3	1042.5	1046.5	1050.5	1054.5	1058.5	1062.5	1066.5	1070.5	1074.5	1078.5
25°	1014.6	1011.4	1018.4	1025.4	1032.4	1039.4	1046.5	1053.5	1060.5	1067.5	1074.5
27.5°	978.3	975.4	986.4	997.4	1008.4	1019.4	1030.5	1041.5	1052.5	1063.5	1074.5
30°	945.2	943.4	958.0	972.5	987.1	1001.7	1016.2	1030.8	1045.4	1059.9	1074.5
32.5°	910.0	909.4	927.7	946.1	964.4	982.8	1001.1	1019.5	1037.8	1056.2	1074.5
35°	876.4	877.4	899.2	921.0	942.8	964.6	986.3	1008.1	1029.9	1051.7	1073.5
37.5°	843.6	846.4	871.7	897.1	922.4	947.8	973.1	998.5	1023.8	1049.2	1074.5
40°	814.2	819.4	848.2	877.0	905.8	934.6	963.3	992.1	1020.9	1049.7	1078.5
42.5°	787.3	795.4	827.7	860.1	892.4	924.8	957.1	989.5	1021.8	1054.2	1086.5
45°	762.6	774.3	810.2	846.1	882.0	917.9	953.9	989.8	1025.7	1061.6	1097.5
47.5°	737.6	752.3	792.4	832.6	872.7	912.8	953.0	993.1	1033.2	1073.4	1113.5
50°	713.6	731.3	776.1	820.9	865.7	910.5	955.3	1000.1	1044.9	1089.7	1134.5
52.5°	691.4	712.3	762.1	811.9	861.7	911.5	961.3	1011.1	1060.9	1110.7	1160.5
55°	670.1	694.3	749.7	805.0	860.4	915.7	971.1	1026.4	1081.8	1137.1	1192.5
57.5°	648.8	676.3	737.8	799.2	860.7	922.2	983.6	1045.1	1106.6	1168.0	1229.5
60°	629.8	660.3	728.2	796.1	864.1	932.0	999.9	1067.8	1135.8	1203.7	1271.6
62.5°	610.7	644.3	718.6	792.8	867.1	941.3	1015.6	1089.8	1164.1	1238.3	1312.6
65°	591.8	628.3	708.6	788.8	869.1	949.3	1029.6	1109.8	1190.1	1270.3	1350.6
67.5°	570.5	609.3	694.8	780.3	865.7	951.2	1036.7	1122.2	1207.6	1293.1	1378.6
70°	546.5	587.3	676.4	765.6	854.7	943.9	1033.0	1122.2	1211.3	1300.5	1389.6
72.5°	520.1	562.2	652.9	743.6	834.3	925.0	1015.8	1106.5	1197.2	1287.9	1378.6
75°	491.3	534.2	624.0	713.8	803.7	893.5	983.3	1073.1	1163.0	1252.8	1342.6
77.5°	460.2	503.2	589.7	676.2	762.7	849.2	935.6	1022.1	1108.6	1195.1	1281.6
80°	426.6	469.2	550.7	632.2	713.6	795.1	876.6	958.1	1039.5	1121.0	1202.5
82.5°	391.6	433.2	508.5	583.7	659.0	734.2	809.5	884.7	960.0	1035.2	1110.5
85°	360.5	401.2	469.2	537.2	605.3	673.3	741.3	809.3	877.4	945.4	1013.4
87.5°	323.4	362.2	423.7	485.1	546.6	608.1	669.5	731.0	792.5	853.9	915.4
90°	291.6	328.1	383.4	438.6	493.9	549.1	604.4	659.6	714.9	770.1	825.4
92.5°	273.9	308.1	357.6	407.0	456.5	506.0	555.4	604.9	654.4	703.8	753.3
95°	251.6	283.1	328.8	374.5	420.2	465.9	511.5	557.2	602.9	648.6	694.3
97.5°	233.0	262.1	304.5	346.8	389.2	431.5	473.9	516.2	558.6	600.9	643.3
100°	213.4	240.1	280.0	319.9	359.8	399.7	439.7	479.6	519.5	559.4	599.3
102.5°	194.8	219.1	257.3	295.6	333.8	372.0	410.3	448.5	486.7	525.0	563.2
105°	178.8	201.1	237.6	274.0	310.5	346.9	383.4	419.8	456.3	492.7	529.2
107.5°	163.6	184.1	219.1	254.1	289.1	324.1	359.2	394.2	429.2	464.2	499.2
110°	148.5	167.1	200.9	234.7	268.5	302.3	336.0	369.8	403.6	437.4	471.2



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	134.3	151.1	183.4	215.8	248.1	280.5	312.8	345.2	377.5	409.9	442.2
115°	120.1	135.1	166.1	197.1	228.1	259.1	290.2	321.2	352.2	383.2	414.2
117.5°	107.6	121.1	150.4	179.8	209.1	238.5	267.8	297.2	326.5	355.9	385.2
120°	96.9	109.0	136.5	163.9	191.4	218.9	246.3	273.8	301.3	328.7	356.2
122.5°	87.1	98.0	123.3	148.7	174.0	199.4	224.7	250.1	275.4	300.8	326.1
125°	76.4	86.0	109.3	132.7	156.0	179.4	202.7	226.1	249.4	272.8	296.1
127.5°	65.8	74.0	95.1	116.2	137.4	158.5	179.6	200.7	221.9	243.0	264.1
130°	55.1	62.0	80.0	98.0	116.0	134.0	152.1	170.1	188.1	206.1	224.1
132.5°	45.3	51.0	66.3	81.7	97.0	112.4	127.7	143.1	158.4	173.8	189.1
135°	37.3	42.0	55.3	68.7	82.0	95.4	108.7	122.1	135.4	148.8	162.1
137.5°	28.4	32.0	43.7	55.4	67.0	78.7	90.4	102.1	113.7	125.4	137.1
140°	20.4	23.0	33.1	43.2	53.4	63.5	73.6	83.7	93.9	104.0	114.1
142.5°	14.2	16.0	24.7	33.3	42.0	50.7	59.3	68.0	76.7	85.3	94.0
145°	9.8	11.0	18.1	25.2	32.3	39.4	46.6	53.7	60.8	67.9	75.0
147.5°	7.1	8.0	13.7	19.3	25.0	30.7	36.3	42.0	47.7	53.3	59.0
150°	5.3	6.0	10.3	14.7	19.0	23.3	27.7	32.0	36.3	40.7	45.0
152.5°	4.4	5.0	8.1	11.2	14.3	17.4	20.6	23.7	26.8	29.9	33.0
155°	2.7	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	21.0
157.5°	1.8	2.0	3.1	4.2	5.3	6.4	7.6	8.7	9.8	10.9	12.0
160°	0.9	1.0	1.6	2.1	2.7	3.2	3.8	4.3	4.9	5.4	6.0
162.5°	0.0	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0
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: P201352

CATALOG NUMBER: 4LBLELD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1206.5	1205.5	1204.5	1203.5	1202.5	1201.5	1200.5	1199.5	1198.5	1197.4	1196.3
5°	1191.4	1190.3	1189.2	1188.1	1186.9	1185.8	1184.7	1183.6	1182.5	1182.1	1181.6
7.5°	1175.7	1174.9	1174.2	1173.4	1172.6	1171.8	1171.1	1170.3	1169.5	1169.2	1168.8
10°	1160.1	1159.6	1159.2	1158.7	1158.3	1157.8	1157.4	1156.9	1156.5	1156.1	1155.6
12.5°	1141.6	1141.7	1141.8	1141.9	1142.1	1142.2	1142.3	1142.4	1142.5	1142.5	1142.5
15°	1125.4	1126.3	1127.2	1128.1	1128.9	1129.8	1130.7	1131.6	1132.5	1133.2	1133.8
17.5°	1109.1	1111.6	1114.2	1116.7	1119.3	1121.8	1124.4	1126.9	1129.5	1131.1	1132.6
20°	1094.8	1100.2	1105.5	1110.8	1116.2	1121.5	1126.8	1132.2	1137.5	1140.1	1142.6
22.5°	1086.5	1094.5	1102.5	1110.5	1118.5	1126.5	1134.5	1142.5	1150.5	1153.5	1156.5
25°	1084.4	1094.3	1104.2	1114.1	1123.9	1133.8	1143.7	1153.6	1163.5	1166.9	1170.4
27.5°	1085.8	1097.2	1108.5	1119.8	1131.2	1142.5	1153.8	1165.2	1176.5	1180.6	1184.7
30°	1087.4	1100.3	1113.2	1126.1	1138.9	1151.8	1164.7	1177.6	1190.5	1195.5	1200.5
32.5°	1089.3	1104.1	1118.8	1133.6	1148.4	1163.2	1177.9	1192.7	1207.5	1213.4	1219.3
35°	1090.7	1107.9	1125.2	1142.4	1159.6	1176.8	1194.1	1211.3	1228.5	1235.7	1243.0
37.5°	1094.5	1114.5	1134.5	1154.5	1174.6	1194.6	1214.6	1234.6	1254.6	1263.5	1272.4
40°	1101.8	1125.2	1148.5	1171.9	1195.2	1218.6	1241.9	1265.3	1288.6	1299.3	1309.9
42.5°	1113.6	1140.7	1167.9	1195.0	1222.1	1249.2	1276.4	1303.5	1330.6	1343.2	1355.7
45°	1129.3	1161.1	1192.9	1224.7	1256.4	1288.2	1320.0	1351.8	1383.6	1398.2	1412.7
47.5°	1150.3	1187.1	1223.9	1260.7	1297.4	1334.2	1371.0	1407.8	1444.6	1461.6	1478.6
50°	1176.9	1219.2	1261.6	1303.9	1346.3	1388.6	1431.0	1473.3	1515.7	1535.1	1554.6
52.5°	1209.1	1257.7	1306.2	1354.8	1403.4	1452.0	1500.5	1549.1	1597.7	1619.5	1641.3
55°	1247.4	1302.3	1357.2	1412.1	1467.1	1522.0	1576.9	1631.8	1686.7	1710.5	1734.3
57.5°	1290.5	1351.6	1412.6	1473.6	1534.7	1595.7	1656.7	1717.8	1778.8	1804.1	1829.5
60°	1338.2	1404.8	1471.3	1537.9	1604.5	1671.1	1737.6	1804.2	1870.8	1896.8	1922.8
62.5°	1383.7	1454.9	1526.0	1597.2	1668.3	1739.5	1810.6	1881.8	1952.9	1978.9	2004.9
65°	1424.7	1498.9	1573.0	1647.2	1721.3	1795.5	1869.6	1943.8	2017.9	2043.9	2069.9
67.5°	1454.3	1530.0	1605.7	1681.4	1757.1	1832.8	1908.5	1984.2	2059.9	2084.6	2109.3
70°	1465.0	1540.3	1615.7	1691.1	1766.4	1841.8	1917.2	1992.5	2067.9	2091.4	2114.8
72.5°	1452.0	1525.3	1598.7	1672.1	1745.4	1818.8	1892.2	1965.5	2038.9	2060.7	2082.5
75°	1412.3	1482.0	1551.7	1621.4	1691.1	1760.8	1830.5	1900.2	1969.9	1990.0	2010.1
77.5°	1346.2	1410.8	1475.3	1539.9	1604.5	1669.1	1733.6	1798.2	1862.8	1881.7	1900.6
80°	1261.0	1319.5	1377.9	1436.4	1494.9	1553.4	1611.8	1670.3	1728.8	1746.1	1763.5
82.5°	1162.7	1215.0	1267.2	1319.5	1371.7	1424.0	1476.2	1528.5	1580.7	1596.2	1611.6
85°	1059.6	1105.9	1152.1	1198.4	1244.6	1290.9	1337.1	1383.4	1429.6	1443.5	1457.4
87.5°	955.8	996.1	1036.5	1076.8	1117.2	1157.5	1197.9	1238.2	1278.6	1291.2	1303.7
90°	861.1	896.8	932.4	968.1	1003.8	1039.5	1075.1	1110.8	1146.5	1158.0	1169.4
92.5°	785.4	817.6	849.7	881.8	914.0	946.1	978.2	1010.4	1042.5	1052.9	1063.4
95°	723.8	753.2	782.7	812.1	841.6	871.0	900.5	929.9	959.4	969.2	979.0
97.5°	671.1	698.9	726.7	754.5	782.2	810.0	837.8	865.6	893.4	902.6	911.8
100°	626.1	652.9	679.7	706.5	733.2	760.0	786.8	813.6	840.4	849.3	858.2
102.5°	589.2	615.2	641.3	667.3	693.3	719.3	745.4	771.4	797.4	806.1	814.7
105°	555.0	580.8	606.6	632.4	658.1	683.9	709.7	735.5	761.3	769.8	778.2
107.5°	524.8	550.3	575.9	601.5	627.0	652.6	678.2	703.7	729.3	737.9	746.4
110°	496.7	522.1	547.6	573.0	598.5	623.9	649.4	674.8	700.3	709.0	717.6





TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	467.7	493.1	518.6	544.0	569.5	594.9	620.4	645.8	671.3	680.0	688.6
115°	439.4	464.7	489.9	515.1	540.4	565.6	590.8	616.1	641.3	650.3	659.3
117.5°	410.1	435.0	459.9	484.8	509.7	534.6	559.5	584.4	609.3	618.5	627.7
120°	380.4	404.7	428.9	453.1	477.4	501.6	525.8	550.1	574.3	583.6	593.0
122.5°	349.2	372.3	395.5	418.6	441.7	464.8	488.0	511.1	534.2	543.7	553.1
125°	317.9	339.7	361.5	383.3	405.0	426.8	448.6	470.4	492.2	501.4	510.7
127.5°	284.6	305.0	325.5	345.9	366.4	386.8	407.3	427.7	448.2	457.0	465.8
130°	244.2	264.3	284.5	304.6	324.7	344.8	365.0	385.1	405.2	413.2	421.2
132.5°	208.3	227.6	246.8	266.0	285.3	304.5	323.7	343.0	362.2	369.5	376.9
135°	179.5	197.0	214.4	231.9	249.3	266.8	284.2	301.7	319.1	325.9	332.7
137.5°	151.9	166.7	181.4	196.2	211.0	225.8	240.5	255.3	270.1	277.0	283.9
140°	125.9	137.7	149.4	161.2	173.0	184.8	196.5	208.3	220.1	227.0	233.9
142.5°	104.0	114.0	124.0	134.0	144.1	154.1	164.1	174.1	184.1	189.9	195.7
145°	83.5	91.9	100.4	108.8	117.3	125.7	134.2	142.6	151.1	156.7	162.2
147.5°	66.0	73.0	80.0	87.0	94.1	101.1	108.1	115.1	122.1	127.4	132.8
150°	50.7	56.3	62.0	67.7	73.3	79.0	84.7	90.3	96.0	101.0	106.0
152.5°	37.4	41.9	46.3	50.8	55.2	59.7	64.1	68.6	73.0	77.7	82.4
155°	24.7	28.3	32.0	35.7	39.3	43.0	46.7	50.3	54.0	58.1	62.2
157.5°	14.9	17.8	20.7	23.6	26.4	29.3	32.2	35.1	38.0	41.6	45.1
160°	7.9	9.8	11.7	13.6	15.4	17.3	19.2	21.1	23.0	26.1	29.2
162.5°	3.8	4.6	5.3	6.1	6.9	7.7	8.4	9.2	10.0	12.4	14.9
165°	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	4.7	6.3
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: P201352

CATALOG NUMBER: 4LBLEDD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1195.2	1194.1	1192.9	1191.8	1190.7	1189.6	1188.5	1189.4	1190.3	1191.2	1192.1
5°	1181.2	1180.7	1180.3	1179.8	1179.4	1178.9	1178.5	1178.6	1178.7	1178.8	1178.9
7.5°	1168.5	1168.2	1167.8	1167.5	1167.2	1166.8	1166.5	1166.5	1166.5	1166.5	1166.5
10°	1155.2	1154.7	1154.3	1153.8	1153.4	1152.9	1152.5	1152.3	1152.1	1151.8	1151.6
12.5°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1141.9	1141.4	1140.8	1140.3
15°	1134.5	1135.2	1135.8	1136.5	1137.2	1137.8	1138.5	1137.6	1136.7	1135.8	1134.9
17.5°	1134.2	1135.7	1137.3	1138.8	1140.4	1141.9	1143.5	1141.7	1139.9	1138.2	1136.4
20°	1145.2	1147.7	1150.3	1152.8	1155.4	1157.9	1160.5	1157.4	1154.3	1151.2	1148.1
22.5°	1159.5	1162.5	1165.5	1168.5	1171.5	1174.5	1177.5	1173.7	1169.9	1166.2	1162.4
25°	1173.8	1177.3	1180.7	1184.2	1187.6	1191.1	1194.5	1190.4	1186.3	1182.2	1178.1
27.5°	1188.8	1192.9	1197.1	1201.2	1205.3	1209.4	1213.5	1208.7	1203.9	1199.2	1194.4
30°	1205.5	1210.5	1215.5	1220.5	1225.5	1230.5	1235.5	1229.9	1224.4	1218.8	1213.3
32.5°	1225.2	1231.1	1237.0	1242.9	1248.8	1254.7	1260.6	1254.3	1247.9	1241.6	1235.2
35°	1250.2	1257.4	1264.7	1271.9	1279.1	1286.4	1293.6	1286.0	1278.5	1270.9	1263.3
37.5°	1281.3	1290.2	1299.0	1307.9	1316.8	1325.7	1334.6	1325.6	1316.6	1307.6	1298.6
40°	1320.6	1331.3	1341.9	1352.6	1363.3	1373.9	1384.6	1373.9	1363.3	1352.6	1341.9
42.5°	1368.3	1380.8	1393.4	1405.9	1418.5	1431.0	1443.6	1431.4	1419.2	1406.9	1394.7
45°	1427.3	1441.9	1456.4	1471.0	1485.6	1500.1	1514.7	1500.5	1486.2	1472.0	1457.8
47.5°	1495.6	1512.6	1529.7	1546.7	1563.7	1580.7	1597.7	1581.7	1565.7	1549.7	1533.7
50°	1574.0	1593.5	1612.9	1632.4	1651.8	1671.3	1690.7	1672.5	1654.3	1636.0	1617.8
52.5°	1663.1	1684.9	1706.6	1728.4	1750.2	1772.0	1793.8	1773.6	1753.3	1733.1	1712.9
55°	1758.1	1781.9	1805.6	1829.4	1853.2	1877.0	1900.8	1879.0	1857.2	1835.5	1813.7
57.5°	1854.8	1880.2	1905.5	1930.9	1956.2	1981.6	2006.9	1984.0	1961.1	1938.2	1915.3
60°	1948.8	1974.8	2000.9	2026.9	2052.9	2078.9	2104.9	2081.3	2057.8	2034.2	2010.6
62.5°	2030.9	2056.9	2083.0	2109.0	2135.0	2161.0	2187.0	2163.8	2140.5	2117.3	2094.1
65°	2095.9	2121.9	2148.0	2174.0	2200.0	2226.0	2252.0	2229.2	2206.4	2183.6	2160.8
67.5°	2133.9	2158.6	2183.3	2208.0	2232.6	2257.3	2282.0	2260.4	2238.9	2217.3	2195.7
70°	2138.3	2161.7	2185.2	2208.6	2232.1	2255.5	2279.0	2258.5	2238.1	2217.6	2197.2
72.5°	2104.3	2126.1	2147.8	2169.6	2191.4	2213.2	2235.0	2215.7	2196.3	2177.0	2157.6
75°	2030.3	2050.4	2070.5	2090.6	2110.8	2130.9	2151.0	2132.8	2114.5	2096.3	2078.1
77.5°	1919.5	1938.4	1957.3	1976.2	1995.1	2014.0	2032.9	2015.7	1998.4	1981.2	1964.0
80°	1780.8	1798.1	1815.5	1832.8	1850.1	1867.5	1884.8	1868.5	1852.1	1835.8	1819.5
82.5°	1627.1	1642.5	1658.0	1673.4	1688.9	1704.3	1719.8	1706.2	1692.7	1679.1	1665.5
85°	1471.3	1485.2	1499.1	1513.0	1526.9	1540.8	1554.7	1542.0	1529.3	1516.7	1504.0
87.5°	1316.3	1328.8	1341.4	1353.9	1366.5	1379.0	1391.6	1379.9	1368.3	1356.6	1344.9
90°	1180.9	1192.3	1203.8	1215.2	1226.7	1238.1	1249.6	1238.8	1228.0	1217.2	1206.4
92.5°	1073.8	1084.3	1094.7	1105.2	1115.6	1126.1	1136.5	1126.6	1116.7	1106.8	1096.9
95°	988.8	998.6	1008.3	1018.1	1027.9	1037.7	1047.5	1038.4	1029.3	1020.1	1011.0
97.5°	921.1	930.3	939.5	948.7	958.0	967.2	976.4	967.7	959.1	950.4	941.7
100°	867.1	876.0	884.8	893.7	902.6	911.5	920.4	912.0	903.5	895.1	886.6
102.5°	823.4	832.1	840.7	849.4	858.1	866.7	875.4	867.1	858.7	850.4	842.1
105°	786.7	795.1	803.6	812.0	820.5	828.9	837.4	829.4	821.4	813.4	805.4
107.5°	755.0	763.6	772.1	780.7	789.3	797.8	806.4	798.3	790.2	782.0	773.9
110°	726.3	735.0	743.6	752.3	761.0	769.6	778.3	770.1	761.9	753.6	745.4



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	697.3	706.0	714.6	723.3	732.0	740.6	749.3	741.1	732.9	724.6	716.4
115°	668.3	677.3	686.3	695.3	704.3	713.3	722.3	713.9	705.4	697.0	688.5
117.5°	637.0	646.2	655.4	664.6	673.9	683.1	692.3	683.7	675.2	666.6	658.1
120°	602.3	611.6	621.0	630.3	639.6	649.0	658.3	649.7	641.2	632.6	624.1
122.5°	562.6	572.0	581.5	590.9	600.4	609.8	619.3	610.7	602.2	593.6	585.0
125°	519.9	529.1	538.4	547.6	556.8	566.1	575.3	567.1	558.8	550.6	542.4
127.5°	474.5	483.3	492.1	500.9	509.6	518.4	527.2	519.5	511.9	504.2	496.5
130°	429.2	437.2	445.2	453.2	461.2	469.2	477.2	470.2	463.2	456.2	449.2
132.5°	384.2	391.5	398.9	406.2	413.5	420.9	428.2	422.0	415.8	409.5	403.3
135°	339.5	346.3	353.0	359.8	366.6	373.4	380.2	374.6	369.1	363.5	357.9
137.5°	290.8	297.7	304.5	311.4	318.3	325.2	332.1	326.8	321.4	316.1	310.8
140°	240.8	247.7	254.5	261.4	268.3	275.2	282.1	277.4	272.8	268.1	263.4
142.5°	201.4	207.2	213.0	218.8	224.5	230.3	236.1	232.8	229.4	226.1	222.8
145°	167.8	173.3	178.9	184.4	190.0	195.5	201.1	198.4	195.8	193.1	190.4
147.5°	138.1	143.4	148.8	154.1	159.4	164.8	170.1	167.9	165.7	163.4	161.2
150°	111.0	116.0	121.1	126.1	131.1	136.1	141.1	139.4	137.8	136.1	134.4
152.5°	87.0	91.7	96.4	101.1	105.7	110.4	115.1	113.6	112.2	110.7	109.3
155°	66.3	70.4	74.6	78.7	82.8	86.9	91.0	90.0	89.0	88.0	87.0
157.5°	48.7	52.2	55.8	59.3	62.9	66.4	70.0	69.0	68.0	67.0	66.0
160°	32.3	35.4	38.6	41.7	44.8	47.9	51.0	50.2	49.4	48.7	47.9
162.5°	17.3	19.8	22.2	24.7	27.1	29.6	32.0	31.4	30.9	30.3	29.8
165°	8.0	9.7	11.3	13.0	14.7	16.3	18.0	17.9	17.8	17.7	17.6
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: P201352

CATALOG NUMBER: 4LBLELD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1192.9	1193.8	1194.7	1195.6	1196.5	1197.9	1199.4	1200.8	1202.3	1203.7	1205.2
5°	1179.1	1179.2	1179.3	1179.4	1179.5	1181.3	1183.1	1184.8	1186.6	1188.4	1190.2
7.5°	1166.5	1166.5	1166.5	1166.5	1166.5	1168.2	1169.8	1171.5	1173.2	1174.8	1176.5
10°	1151.4	1151.2	1150.9	1150.7	1150.5	1152.3	1154.1	1155.8	1157.6	1159.4	1161.2
12.5°	1139.7	1139.2	1138.6	1138.1	1137.5	1138.9	1140.4	1141.8	1143.3	1144.7	1146.2
15°	1134.1	1133.2	1132.3	1131.4	1130.5	1130.7	1130.9	1131.2	1131.4	1131.6	1131.8
17.5°	1134.6	1132.8	1131.1	1129.3	1127.5	1126.1	1124.6	1123.2	1121.7	1120.3	1118.8
20°	1144.9	1141.8	1138.7	1135.6	1132.5	1128.6	1124.7	1120.8	1116.9	1113.1	1109.2
22.5°	1158.6	1154.8	1151.1	1147.3	1143.5	1137.1	1130.6	1124.2	1117.7	1111.3	1104.8
25°	1173.9	1169.8	1165.7	1161.6	1157.5	1148.8	1140.2	1131.5	1122.8	1114.2	1105.5
27.5°	1189.6	1184.8	1180.1	1175.3	1170.5	1160.5	1150.5	1140.5	1130.5	1120.5	1110.5
30°	1207.7	1202.2	1196.6	1191.1	1185.5	1173.6	1161.7	1149.8	1137.9	1126.1	1114.2
32.5°	1228.9	1222.5	1216.2	1209.8	1203.5	1189.4	1175.3	1161.2	1147.1	1132.9	1118.8
35°	1255.8	1248.2	1240.6	1233.1	1225.5	1209.1	1192.6	1176.2	1159.7	1143.3	1126.8
37.5°	1289.6	1280.6	1271.6	1262.6	1253.6	1234.5	1215.4	1196.2	1177.1	1158.0	1138.9
40°	1331.3	1320.6	1309.9	1299.3	1288.6	1266.3	1243.9	1221.6	1199.2	1176.9	1154.5
42.5°	1382.5	1370.3	1358.0	1345.8	1333.6	1307.3	1280.9	1254.6	1228.2	1201.9	1175.5
45°	1443.5	1429.3	1415.1	1400.8	1386.6	1355.9	1325.2	1294.6	1263.9	1233.2	1202.5
47.5°	1517.6	1501.6	1485.6	1469.6	1453.6	1417.6	1381.6	1345.6	1309.6	1273.5	1237.5
50°	1599.6	1581.4	1563.1	1544.9	1526.7	1485.2	1443.8	1402.3	1360.8	1319.4	1277.9
52.5°	1692.6	1672.4	1652.2	1631.9	1611.7	1564.1	1516.5	1469.0	1421.4	1373.8	1326.2
55°	1791.9	1770.1	1748.4	1726.6	1704.8	1650.9	1597.0	1543.0	1489.1	1435.2	1381.3
57.5°	1892.4	1869.5	1846.6	1823.7	1800.8	1740.8	1680.8	1620.7	1560.7	1500.7	1440.7
60°	1987.1	1963.5	1939.9	1916.4	1892.8	1827.1	1761.4	1695.7	1630.0	1564.4	1498.7
62.5°	2070.8	2047.6	2024.4	2001.1	1977.9	1908.2	1838.5	1768.8	1699.1	1629.4	1559.7
65°	2138.1	2115.3	2092.5	2069.7	2046.9	1974.0	1901.1	1828.1	1755.2	1682.3	1609.4
67.5°	2174.2	2152.6	2131.0	2109.5	2087.9	2013.3	1938.7	1864.1	1789.5	1715.0	1640.4
70°	2176.7	2156.3	2135.8	2115.4	2094.9	2020.9	1946.8	1872.8	1798.8	1724.7	1650.7
72.5°	2138.3	2118.9	2099.6	2080.2	2060.9	1989.4	1917.9	1846.5	1775.0	1703.5	1632.0
75°	2059.8	2041.6	2023.4	2005.1	1986.9	1919.4	1851.9	1784.5	1717.0	1649.5	1582.0
77.5°	1946.7	1929.5	1912.3	1895.0	1877.8	1815.4	1753.1	1690.7	1628.4	1566.0	1503.7
80°	1803.1	1786.8	1770.5	1754.1	1737.8	1681.4	1625.1	1568.7	1512.3	1456.0	1399.6
82.5°	1652.0	1638.4	1624.8	1611.3	1597.7	1546.1	1494.5	1443.0	1391.4	1339.8	1288.2
85°	1491.3	1478.6	1466.0	1453.3	1440.6	1395.0	1349.5	1303.9	1258.3	1212.8	1167.2
87.5°	1333.3	1321.6	1309.9	1298.3	1286.6	1246.8	1207.0	1167.2	1127.4	1087.6	1047.8
90°	1195.7	1184.9	1174.1	1163.3	1152.5	1117.5	1082.5	1047.5	1012.5	977.4	942.4
92.5°	1087.1	1077.2	1067.3	1057.4	1047.5	1016.3	985.0	953.8	922.5	891.3	860.0
95°	1001.9	992.8	983.6	974.5	965.4	936.7	908.0	879.4	850.7	822.0	793.3
97.5°	933.1	924.4	915.7	907.1	898.4	871.4	844.4	817.4	790.4	763.3	736.3
100°	878.2	869.7	861.3	852.8	844.4	818.5	792.6	766.7	740.8	714.9	689.0
102.5°	833.7	825.4	817.1	808.7	800.4	775.2	749.9	724.7	699.5	674.2	649.0
105°	797.3	789.3	781.3	773.3	765.3	740.4	715.5	690.6	665.7	640.8	615.9
107.5°	765.8	757.7	749.5	741.4	733.3	708.6	683.9	659.3	634.6	609.9	585.2
110°	737.2	729.0	720.7	712.5	704.3	679.8	655.4	630.9	606.5	582.0	557.6



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	708.2	700.0	691.7	683.5	675.3	651.0	626.6	602.3	577.9	553.6	529.2
115°	680.1	671.6	663.2	654.7	646.3	622.1	597.8	573.6	549.4	525.1	500.9
117.5°	649.5	641.0	632.4	623.9	615.3	591.3	567.3	543.3	519.3	495.2	471.2
120°	615.5	607.0	598.4	589.9	581.3	557.7	534.2	510.6	487.0	463.5	439.9
122.5°	576.5	567.9	559.3	550.8	542.2	519.6	497.1	474.5	452.0	429.4	406.9
125°	534.1	525.9	517.7	509.4	501.2	479.9	458.5	437.2	415.8	394.5	373.1
127.5°	488.9	481.2	473.5	465.9	458.2	438.3	418.4	398.5	378.6	358.7	338.8
130°	442.2	435.2	428.2	421.2	414.2	395.3	376.4	357.5	338.6	319.7	300.8
132.5°	397.1	390.9	384.6	378.4	372.2	354.2	336.2	318.2	300.2	282.1	264.1
135°	352.4	346.8	341.2	335.7	330.1	314.2	298.3	282.4	266.5	250.7	234.8
137.5°	305.4	300.1	294.8	289.4	284.1	271.0	257.9	244.8	231.7	218.5	205.4
140°	258.8	254.1	249.4	244.8	240.1	229.4	218.8	208.1	197.4	186.8	176.1
142.5°	219.4	216.1	212.8	209.4	206.1	197.0	187.9	178.8	169.7	160.5	151.4
145°	187.8	185.1	182.4	179.8	177.1	169.2	161.3	153.4	145.5	137.6	129.7
147.5°	159.0	156.8	154.5	152.3	150.1	143.3	136.5	129.7	122.9	116.2	109.4
150°	132.8	131.1	129.4	127.8	126.1	120.2	114.3	108.4	102.5	96.6	90.7
152.5°	107.8	106.4	104.9	103.5	102.0	97.2	92.4	87.7	82.9	78.1	73.3
155°	86.0	85.0	84.0	83.0	82.0	77.8	73.6	69.3	65.1	60.9	56.7
157.5°	65.0	64.0	63.0	62.0	61.0	57.7	54.3	51.0	47.7	44.3	41.0
160°	47.1	46.3	45.6	44.8	44.0	41.4	38.9	36.3	33.8	31.2	28.7
162.5°	29.2	28.7	28.1	27.6	27.0	25.7	24.3	23.0	21.7	20.3	19.0
165°	17.4	17.3	17.2	17.1	17.0	16.3	15.7	15.0	14.3	13.7	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: P201352

CATALOG NUMBER: 4LBLELD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1206.6	1208.1	1209.5	1209.5	1209.5	1209.5	1209.5	1209.5	1209.5	1209.5	1209.5
5°	1191.9	1193.7	1195.5	1195.8	1196.2	1196.5	1196.8	1197.2	1197.5	1197.8	1198.2
7.5°	1178.2	1179.8	1181.5	1181.7	1181.9	1182.2	1182.4	1182.6	1182.8	1183.1	1183.3
10°	1162.9	1164.7	1166.5	1166.3	1166.1	1165.8	1165.6	1165.4	1165.2	1164.9	1164.7
12.5°	1147.6	1149.1	1150.5	1149.8	1149.2	1148.5	1147.8	1147.2	1146.5	1145.8	1145.2
15°	1132.1	1132.3	1132.5	1131.3	1130.1	1128.8	1127.6	1126.4	1125.2	1123.9	1122.7
17.5°	1117.4	1115.9	1114.5	1112.4	1110.3	1108.2	1106.1	1103.9	1101.8	1099.7	1097.6
20°	1105.3	1101.4	1097.5	1094.2	1090.8	1087.5	1084.2	1080.8	1077.5	1074.2	1070.8
22.5°	1098.4	1091.9	1085.5	1080.1	1074.6	1069.2	1063.7	1058.3	1052.8	1047.4	1041.9
25°	1096.8	1088.2	1079.5	1071.2	1062.8	1054.5	1046.1	1037.8	1029.4	1021.1	1012.7
27.5°	1100.5	1090.5	1080.5	1068.3	1056.0	1043.8	1031.6	1019.3	1007.1	994.9	982.6
30°	1102.3	1090.4	1078.5	1062.9	1047.4	1031.8	1016.2	1000.7	985.1	969.5	954.0
32.5°	1104.7	1090.6	1076.5	1057.5	1038.5	1019.5	1000.5	981.4	962.4	943.4	924.4
35°	1110.4	1093.9	1077.5	1054.7	1031.9	1009.1	986.3	963.6	940.8	918.0	895.2
37.5°	1119.7	1100.6	1081.5	1055.4	1029.3	1003.1	977.0	950.9	924.8	898.6	872.5
40°	1132.2	1109.8	1087.5	1057.9	1028.4	998.8	969.2	939.7	910.1	880.5	851.0
42.5°	1149.2	1122.8	1096.5	1063.6	1030.7	997.8	964.9	932.0	899.1	866.2	833.3
45°	1171.9	1141.2	1110.5	1073.7	1036.9	1000.1	963.3	926.5	889.7	852.9	816.1
47.5°	1201.5	1165.5	1129.5	1088.4	1047.2	1006.1	965.0	923.8	882.7	841.6	800.4
50°	1236.4	1195.0	1153.5	1107.6	1061.7	1015.8	969.9	923.9	878.0	832.1	786.2
52.5°	1278.7	1231.1	1183.5	1132.3	1081.0	1029.8	978.5	927.3	876.0	824.8	773.5
55°	1327.3	1273.4	1219.5	1162.5	1105.5	1048.4	991.4	934.4	877.4	820.3	763.3
57.5°	1380.6	1320.6	1260.6	1197.5	1134.3	1071.2	1008.0	944.9	881.7	818.6	755.4
60°	1433.0	1367.3	1301.6	1232.3	1163.1	1093.8	1024.6	955.3	886.1	816.8	747.6
62.5°	1490.0	1420.3	1350.6	1274.5	1198.3	1122.2	1046.0	969.9	893.7	817.6	741.4
65°	1536.4	1463.5	1390.6	1308.3	1226.1	1143.8	1061.6	979.3	897.1	814.8	732.6
67.5°	1565.8	1491.2	1416.6	1329.6	1242.5	1155.5	1068.5	981.4	894.4	807.4	720.3
70°	1576.7	1502.6	1428.6	1338.0	1247.4	1156.8	1066.2	975.7	885.1	794.5	703.9
72.5°	1560.6	1489.1	1417.6	1325.6	1233.5	1141.5	1049.5	957.4	865.4	773.4	681.3
75°	1514.6	1447.1	1379.6	1288.6	1197.5	1106.5	1015.4	924.4	833.3	742.3	651.2
77.5°	1441.3	1379.0	1316.6	1229.1	1141.6	1054.1	966.6	879.2	791.7	704.2	616.7
80°	1343.2	1286.9	1230.5	1148.7	1066.9	985.1	903.3	821.4	739.6	657.8	576.0
82.5°	1236.7	1185.1	1133.5	1058.4	983.2	908.1	832.9	757.8	682.6	607.5	532.3
85°	1121.6	1076.1	1030.5	962.6	894.7	826.7	758.8	690.9	623.0	555.0	487.1
87.5°	1008.0	968.2	928.4	867.6	806.8	746.0	685.2	624.4	563.6	502.8	442.0
90°	907.4	872.4	837.4	782.8	728.2	673.7	619.1	564.5	509.9	455.4	400.8
92.5°	828.8	797.5	766.3	716.9	667.6	618.2	568.9	519.5	470.2	420.8	371.5
95°	764.7	736.0	707.3	661.8	616.4	570.9	525.4	480.0	434.5	389.0	343.6
97.5°	709.3	682.3	655.3	613.2	571.0	528.9	486.8	444.6	402.5	360.4	318.2
100°	663.1	637.2	611.3	571.6	531.9	492.2	452.5	412.9	373.2	333.5	293.8
102.5°	623.8	598.5	573.3	535.4	497.5	459.6	421.7	383.7	345.8	307.9	270.0
105°	591.0	566.1	541.2	504.7	468.3	431.8	395.4	358.9	322.5	286.0	249.6
107.5°	560.6	535.9	511.2	476.1	441.0	405.8	370.7	335.6	300.5	265.3	230.2
110°	533.1	508.7	484.2	450.2	416.2	382.2	348.2	314.1	280.1	246.1	212.1



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	504.9	480.5	456.2	423.5	390.8	358.2	325.5	292.8	260.1	227.5	194.8
115°	476.7	452.4	428.2	396.9	365.5	334.2	302.8	271.5	240.1	208.8	177.4
117.5°	447.2	423.2	399.2	369.4	339.6	309.8	280.0	250.3	220.5	190.7	160.9
120°	416.3	392.8	369.2	341.3	313.4	285.5	257.6	229.7	201.8	173.9	146.0
122.5°	384.3	361.8	339.2	313.4	287.6	261.8	236.0	210.2	184.4	158.6	132.8
125°	351.8	330.4	309.1	285.5	262.0	238.4	214.8	191.3	167.7	144.1	120.6
127.5°	318.9	299.0	279.1	257.6	236.2	214.7	193.3	171.8	150.4	128.9	107.5
130°	281.9	263.0	244.1	225.4	206.7	188.1	169.4	150.7	132.0	113.4	94.7
132.5°	246.1	228.1	210.1	194.2	178.3	162.4	146.5	130.6	114.7	98.8	82.9
135°	218.9	203.0	187.1	172.8	158.4	144.1	129.7	115.4	101.0	86.7	72.3
137.5°	192.3	179.2	166.1	153.1	140.1	127.1	114.1	101.0	88.0	75.0	62.0
140°	165.4	154.8	144.1	132.5	121.0	109.4	97.8	86.3	74.7	63.1	51.6
142.5°	142.3	133.2	124.1	113.8	103.4	93.1	82.7	72.4	62.0	51.7	41.3
145°	121.8	113.9	106.0	96.8	87.6	78.3	69.1	59.9	50.7	41.4	32.2
147.5°	102.6	95.8	89.0	81.2	73.4	65.7	57.9	50.1	42.3	34.6	26.8
150°	84.8	78.9	73.0	66.7	60.3	54.0	47.7	41.3	35.0	28.7	22.3
152.5°	68.6	63.8	59.0	54.0	49.0	44.0	39.0	34.0	29.0	24.0	19.0
155°	52.4	48.2	44.0	40.3	36.7	33.0	29.3	25.7	22.0	18.3	14.7
157.5°	37.7	34.3	31.0	28.6	26.1	23.7	21.2	18.8	16.3	13.9	11.4
160°	26.1	23.6	21.0	19.4	17.9	16.3	14.8	13.2	11.7	10.1	8.6
162.5°	17.7	16.3	15.0	13.9	12.8	11.7	10.6	9.4	8.3	7.2	6.1
165°	12.3	11.7	11.0	10.2	9.4	8.7	7.9	7.1	6.3	5.6	4.8
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: P201352

CATALOG NUMBER: 4LBLED-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°
0°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1209.5	1212.5	1215.5	1218.5	1221.5	1224.5	1227.5	1230.5	1233.5	1236.5	1235.9
5°	1198.5	1202.1	1205.6	1209.2	1212.7	1216.3	1219.8	1223.4	1226.9	1230.5	1230.8
7.5°	1183.5	1187.5	1191.5	1195.5	1199.5	1203.5	1207.5	1211.5	1215.5	1219.5	1220.9
10°	1164.5	1169.1	1173.6	1178.2	1182.7	1187.3	1191.8	1196.4	1200.9	1205.5	1207.8
12.5°	1144.5	1149.1	1153.6	1158.2	1162.7	1167.3	1171.8	1176.4	1180.9	1185.5	1189.1
15°	1121.5	1126.3	1131.1	1135.8	1140.6	1145.4	1150.2	1154.9	1159.7	1164.5	1169.1
17.5°	1095.5	1100.3	1105.1	1109.8	1114.6	1119.4	1124.2	1128.9	1133.7	1138.5	1144.2
20°	1067.5	1071.8	1076.2	1080.5	1084.8	1089.2	1093.5	1097.8	1102.2	1106.5	1113.7
22.5°	1036.5	1040.5	1044.5	1048.5	1052.5	1056.5	1060.5	1064.5	1068.5	1072.5	1081.1
25°	1004.4	1008.2	1012.0	1015.8	1019.6	1023.3	1027.1	1030.9	1034.7	1038.5	1048.2
27.5°	970.4	973.2	976.0	978.7	981.5	984.3	987.1	989.8	992.6	995.4	1007.1
30°	938.4	940.1	941.7	943.4	945.1	946.7	948.4	950.1	951.7	953.4	966.7
32.5°	905.4	906.2	907.0	907.7	908.5	909.3	910.1	910.8	911.6	912.4	927.1
35°	872.4	871.6	870.8	870.1	869.3	868.5	867.7	867.0	866.2	865.4	882.2
37.5°	846.4	843.2	840.0	836.7	833.5	830.3	827.1	823.8	820.6	817.4	836.7
40°	821.4	815.5	809.6	803.7	797.8	791.9	786.0	780.1	774.2	768.3	790.6
42.5°	800.4	791.3	782.2	773.0	763.9	754.8	745.7	736.5	727.4	718.3	743.8
45°	779.3	767.0	754.6	742.3	730.0	717.6	705.3	693.0	680.6	668.3	697.0
47.5°	759.3	743.7	728.2	712.6	697.1	681.5	666.0	650.4	634.9	619.3	651.1
50°	740.3	721.4	702.5	683.6	664.7	645.9	627.0	608.1	589.2	570.3	605.2
52.5°	722.3	700.1	677.8	655.6	633.4	611.1	588.9	566.7	544.4	522.2	560.4
55°	706.3	680.6	654.9	629.3	603.6	577.9	552.2	526.6	500.9	475.2	516.8
57.5°	692.3	663.1	633.8	604.6	575.4	546.1	516.9	487.7	458.4	429.2	474.0
60°	678.3	645.7	613.2	580.6	548.0	515.5	482.9	450.3	417.8	385.2	433.3
62.5°	665.3	629.4	593.5	557.6	521.7	485.8	449.9	414.0	378.1	342.2	393.6
65°	650.3	611.5	572.7	533.9	495.1	456.3	417.5	378.7	339.9	301.1	355.5
67.5°	633.3	591.9	550.6	509.2	467.9	426.5	385.2	343.8	302.5	261.1	318.1
70°	613.3	569.6	525.9	482.2	438.5	394.9	351.2	307.5	263.8	220.1	279.5
72.5°	589.3	544.3	499.3	454.2	409.2	364.2	319.2	274.1	229.1	184.1	244.9
75°	560.2	514.6	469.1	423.5	377.9	332.4	286.8	241.2	195.7	150.1	211.6
77.5°	529.2	483.5	437.8	392.2	346.5	300.8	255.1	209.5	163.8	118.1	179.6
80°	494.2	449.1	403.9	358.8	313.7	268.5	223.4	178.3	133.1	88.0	148.7
82.5°	457.2	413.2	369.2	325.1	281.1	237.1	193.1	149.0	105.0	61.0	120.1
85°	419.2	376.7	334.3	291.8	249.3	206.9	164.4	121.9	79.5	37.0	94.0
87.5°	381.2	340.5	299.8	259.1	218.4	177.8	137.1	96.4	55.7	15.0	69.5
90°	346.2	307.8	269.5	231.1	192.8	154.4	116.1	77.7	39.4	1.0	52.0
92.5°	322.1	286.3	250.5	214.7	178.9	143.2	107.4	71.6	35.8	0.0	47.5
95°	298.1	265.1	232.1	199.1	166.1	133.0	100.0	67.0	34.0	1.0	44.6
97.5°	276.1	245.5	215.0	184.4	153.8	123.3	92.7	62.1	31.6	1.0	41.1
100°	254.1	225.9	197.6	169.4	141.2	112.9	84.7	56.5	28.2	0.0	36.8
102.5°	232.1	206.4	180.7	155.1	129.4	103.7	78.0	52.4	26.7	1.0	34.6
105°	213.1	189.5	166.0	142.4	118.8	95.3	71.7	48.1	24.6	1.0	31.6
107.5°	195.1	173.5	152.0	130.4	108.8	87.3	65.7	44.1	22.6	1.0	28.8
110°	178.1	158.4	138.7	119.1	99.4	79.7	60.0	40.4	20.7	1.0	26.0





TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	162.1	144.2	126.3	108.4	90.5	72.6	54.7	36.8	18.9	1.0	23.7
115°	146.1	130.0	113.9	97.7	81.6	65.5	49.4	33.2	17.1	1.0	21.7
117.5°	131.1	116.6	102.2	87.7	73.3	58.8	44.4	29.9	15.5	1.0	19.7
120°	118.1	105.1	92.1	79.1	66.1	53.0	40.0	27.0	14.0	1.0	17.9
122.5°	107.0	95.2	83.4	71.7	59.9	48.1	36.3	24.6	12.8	1.0	16.1
125°	97.0	86.3	75.7	65.0	54.3	43.7	33.0	22.3	11.7	1.0	14.2
127.5°	86.0	76.6	67.1	57.7	48.2	38.8	29.3	19.9	10.4	1.0	12.2
130°	76.0	67.7	59.3	51.0	42.7	34.3	26.0	17.7	9.3	1.0	10.2
132.5°	67.0	59.8	52.6	45.3	38.1	30.9	23.7	16.4	9.2	2.0	9.3
135°	58.0	51.7	45.3	39.0	32.7	26.3	20.0	13.7	7.3	1.0	6.8
137.5°	49.0	43.7	38.3	33.0	27.7	22.3	17.0	11.7	6.3	1.0	5.2
140°	40.0	35.8	31.6	27.3	23.1	18.9	14.7	10.4	6.2	2.0	4.9
142.5°	31.0	27.7	24.3	21.0	17.7	14.3	11.0	7.7	4.3	1.0	3.1
145°	23.0	20.6	18.1	15.7	13.2	10.8	8.3	5.9	3.4	1.0	2.4
147.5°	19.0	17.1	15.2	13.3	11.4	9.6	7.7	5.8	3.9	2.0	3.0
150°	16.0	14.4	12.9	11.3	9.8	8.2	6.7	5.1	3.6	2.0	2.8
152.5°	14.0	12.7	11.3	10.0	8.7	7.3	6.0	4.7	3.3	2.0	2.6
155°	11.0	10.0	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0	2.3
157.5°	9.0	8.2	7.4	6.7	5.9	5.1	4.3	3.6	2.8	2.0	2.2
160°	7.0	6.4	5.9	5.3	4.8	4.2	3.7	3.1	2.6	2.0	2.1
162.5°	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.7	2.3	2.0	2.1
165°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	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: P201352

CATALOG NUMBER: 4LBLEDD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1235.4	1234.8	1234.3	1233.7	1233.2	1232.6	1232.1	1231.5	1232.3	1233.1	1233.8
5°	1231.2	1231.5	1231.8	1232.2	1232.5	1232.8	1233.2	1233.5	1235.1	1236.6	1238.2
7.5°	1222.4	1223.8	1225.3	1226.7	1228.2	1229.6	1231.1	1232.5	1235.0	1237.4	1239.9
10°	1210.2	1212.5	1214.8	1217.2	1219.5	1221.8	1224.2	1226.5	1230.1	1233.6	1237.2
12.5°	1192.6	1196.2	1199.7	1203.3	1206.8	1210.4	1213.9	1217.5	1222.3	1227.1	1231.9
15°	1173.6	1178.2	1182.7	1187.3	1191.8	1196.4	1200.9	1205.5	1211.7	1218.0	1224.2
17.5°	1149.8	1155.5	1161.2	1166.8	1172.5	1178.2	1183.8	1189.5	1197.5	1205.5	1213.5
20°	1120.9	1128.2	1135.4	1142.6	1149.8	1157.1	1164.3	1171.5	1181.3	1191.1	1200.9
22.5°	1089.6	1098.2	1106.7	1115.3	1123.8	1132.4	1140.9	1149.5	1162.3	1175.1	1187.9
25°	1057.8	1067.5	1077.2	1086.8	1096.5	1106.2	1115.8	1125.5	1142.2	1158.9	1175.5
27.5°	1018.8	1030.4	1042.1	1053.8	1065.5	1077.1	1088.8	1100.5	1121.2	1141.9	1162.5
30°	980.1	993.4	1006.8	1020.1	1033.5	1046.8	1060.2	1073.5	1098.2	1122.9	1147.5
32.5°	941.8	956.4	971.1	985.8	1000.5	1015.1	1029.8	1044.5	1073.3	1102.1	1130.9
35°	899.0	915.8	932.6	949.3	966.1	982.9	999.7	1016.5	1049.4	1082.3	1115.2
37.5°	856.1	875.4	894.7	914.1	933.4	952.7	972.1	991.4	1028.3	1065.2	1102.1
40°	813.0	835.3	857.7	880.0	902.4	924.7	947.1	969.4	1010.1	1050.8	1091.5
42.5°	769.2	794.7	820.1	845.6	871.0	896.5	921.9	947.4	992.3	1037.2	1082.1
45°	725.7	754.3	783.0	811.7	840.4	869.0	897.7	926.4	975.8	1025.1	1074.5
47.5°	682.9	714.7	746.5	778.2	810.0	841.8	873.6	905.4	959.8	1014.1	1068.5
50°	640.1	675.0	709.9	744.8	779.7	814.6	849.5	884.4	944.3	1004.2	1064.1
52.5°	598.7	636.9	675.2	713.4	751.7	789.9	828.2	866.4	932.2	998.0	1063.8
55°	558.4	599.9	641.5	683.1	724.7	766.2	807.8	849.4	921.5	993.7	1065.8
57.5°	518.8	563.6	608.4	653.2	698.0	742.8	787.6	832.4	911.9	991.4	1070.8
60°	481.5	529.6	577.7	625.9	674.0	722.1	770.3	818.4	905.4	992.5	1079.5
62.5°	444.9	496.3	547.6	599.0	650.3	701.7	753.0	804.4	899.0	993.6	1088.2
65°	409.8	464.2	518.6	572.9	627.3	681.7	736.0	790.4	892.2	994.0	1095.9
67.5°	375.1	432.2	489.2	546.2	603.2	660.3	717.3	774.3	882.9	991.5	1100.1
70°	338.8	398.2	457.5	516.9	576.2	635.6	694.9	754.3	867.6	980.9	1094.1
72.5°	305.7	366.5	427.3	488.1	548.9	609.7	670.5	731.3	846.9	962.5	1078.1
75°	273.0	334.5	396.0	457.4	518.9	580.4	641.8	703.3	818.5	933.6	1048.8
77.5°	241.0	302.5	364.0	425.4	486.9	548.4	609.8	671.3	783.2	895.2	1007.1
80°	209.4	270.1	330.8	391.5	452.2	512.9	573.6	634.3	740.7	847.1	953.4
82.5°	179.3	238.4	297.6	356.7	415.9	475.0	534.2	593.3	692.6	791.8	891.1
85°	151.0	208.1	265.1	322.1	379.1	436.2	493.2	550.2	641.6	733.0	824.3
87.5°	123.9	178.4	232.9	287.3	341.8	396.3	450.7	505.2	588.2	671.3	754.3
90°	103.0	154.1	205.1	256.1	307.1	358.2	409.2	460.2	535.6	610.9	686.3
92.5°	94.9	142.4	189.9	237.3	284.8	332.3	379.7	427.2	495.8	564.4	633.0
95°	88.2	131.7	175.3	218.9	262.5	306.0	349.6	393.2	456.2	519.2	582.3
97.5°	81.3	121.4	161.5	201.7	241.8	281.9	322.1	362.2	420.7	479.1	537.6
100°	73.6	110.4	147.2	183.9	220.7	257.5	294.3	331.1	386.0	440.9	495.9
102.5°	68.1	101.7	135.3	168.8	202.4	236.0	269.5	303.1	355.1	407.1	459.2
105°	62.1	92.7	123.3	153.8	184.4	215.0	245.5	276.1	326.1	376.1	426.2
107.5°	56.6	84.4	112.2	139.9	167.7	195.5	223.3	251.1	298.8	346.5	394.2
110°	51.0	76.0	101.0	126.1	151.1	176.1	201.1	226.1	271.8	317.5	363.2



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	46.4	69.0	91.7	114.4	137.1	159.7	182.4	205.1	248.6	292.0	335.5
115°	42.4	63.0	83.7	104.4	125.1	145.7	166.4	187.1	228.6	270.0	311.5
117.5°	38.4	57.0	75.7	94.4	113.1	131.7	150.4	169.1	208.4	247.8	287.1
120°	34.8	51.7	68.6	85.5	102.4	119.3	136.2	153.1	189.9	226.7	263.5
122.5°	31.2	46.4	61.5	76.6	91.7	106.9	122.0	137.1	171.0	204.9	238.8
125°	27.5	40.7	53.9	67.2	80.4	93.6	106.9	120.1	151.6	183.0	214.5
127.5°	23.4	34.7	45.9	57.1	68.3	79.6	90.8	102.0	131.5	160.9	190.4
130°	19.4	28.7	37.9	47.1	56.3	65.6	74.8	84.0	110.7	137.4	164.0
132.5°	16.7	24.0	31.3	38.7	46.0	53.3	60.7	68.0	91.7	115.4	139.0
135°	12.6	18.3	24.1	29.9	35.7	41.4	47.2	53.0	73.7	94.4	115.0
137.5°	9.4	13.7	17.9	22.1	26.3	30.6	34.8	39.0	56.9	74.8	92.7
140°	7.8	10.7	13.6	16.4	19.3	22.2	25.1	28.0	43.5	58.9	74.4
142.5°	5.2	7.3	9.4	11.6	13.7	15.8	17.9	20.0	33.0	46.0	59.0
145°	3.9	5.3	6.8	8.2	9.7	11.1	12.6	14.0	24.6	35.1	45.7
147.5°	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	19.3	27.7	36.0
150°	3.6	4.3	5.1	5.9	6.7	7.4	8.2	9.0	15.1	21.2	27.3
152.5°	3.1	3.7	4.2	4.8	5.3	5.9	6.4	7.0	11.3	15.7	20.0
155°	2.7	3.0	3.3	3.7	4.0	4.3	4.7	5.0	7.6	10.1	12.7
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	5.6	7.1	8.7
160°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.8	4.6	5.3
162.5°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.4	3.7
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P201352

CATALOG NUMBER: 4LBLEDD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1234.6	1235.4	1236.2	1236.9	1237.7	1238.5	1238.7	1238.9	1239.2	1239.4	1239.6
5°	1239.8	1241.3	1242.9	1244.5	1246.0	1247.6	1248.4	1249.2	1249.9	1250.7	1251.5
7.5°	1242.3	1244.8	1247.2	1249.7	1252.1	1254.6	1256.3	1257.9	1259.6	1261.3	1262.9
10°	1240.8	1244.3	1247.9	1251.5	1255.0	1258.6	1261.4	1264.2	1266.9	1269.7	1272.5
12.5°	1236.7	1241.4	1246.2	1251.0	1255.8	1260.6	1264.5	1268.4	1272.3	1276.2	1280.0
15°	1230.4	1236.7	1242.9	1249.1	1255.4	1261.6	1266.8	1272.0	1277.3	1282.5	1287.7
17.5°	1221.5	1229.6	1237.6	1245.6	1253.6	1261.6	1268.8	1276.0	1283.3	1290.5	1297.7
20°	1210.7	1220.4	1230.2	1240.0	1249.8	1259.6	1270.2	1280.7	1291.3	1301.8	1312.4
22.5°	1200.7	1213.4	1226.2	1239.0	1251.8	1264.6	1277.7	1290.8	1303.9	1317.0	1330.2
25°	1192.2	1208.9	1225.6	1242.2	1258.9	1275.6	1290.5	1305.4	1320.3	1335.2	1350.0
27.5°	1183.2	1203.9	1224.6	1245.2	1265.9	1286.6	1303.4	1320.2	1336.9	1353.7	1370.5
30°	1172.2	1196.9	1221.6	1246.2	1270.9	1295.6	1314.5	1333.4	1352.3	1371.2	1390.0
32.5°	1159.7	1188.4	1217.2	1246.0	1274.8	1303.6	1325.1	1346.5	1368.0	1389.4	1410.9
35°	1148.1	1181.0	1213.9	1246.8	1279.7	1312.6	1337.2	1361.7	1386.3	1410.9	1435.4
37.5°	1139.0	1176.0	1212.9	1249.8	1286.7	1323.6	1351.5	1379.4	1407.3	1435.2	1463.1
40°	1132.2	1172.8	1213.5	1254.2	1294.9	1335.6	1367.7	1399.8	1432.0	1464.1	1496.2
42.5°	1127.0	1172.0	1216.9	1261.8	1306.7	1351.6	1388.6	1425.6	1462.6	1499.6	1536.7
45°	1123.8	1173.2	1222.5	1271.9	1321.2	1370.6	1413.1	1455.5	1498.0	1540.5	1582.9
47.5°	1122.8	1177.2	1231.5	1285.9	1340.2	1394.6	1443.2	1491.8	1540.3	1588.9	1637.5
50°	1124.0	1184.0	1243.9	1303.8	1363.7	1423.6	1479.9	1536.1	1592.4	1648.6	1704.9
52.5°	1129.6	1195.4	1261.2	1327.0	1392.8	1458.6	1522.5	1586.4	1650.4	1714.3	1778.2
55°	1138.0	1210.1	1282.3	1354.4	1426.6	1498.7	1569.3	1639.9	1710.4	1781.0	1851.6
57.5°	1150.3	1229.8	1309.3	1388.7	1468.2	1547.7	1626.6	1705.5	1784.5	1863.4	1942.3
60°	1166.5	1253.6	1340.6	1427.6	1514.7	1601.7	1686.6	1771.5	1856.5	1941.4	2026.3
62.5°	1182.8	1277.3	1371.9	1466.5	1561.1	1655.7	1746.2	1836.7	1927.2	2017.7	2108.1
65°	1197.7	1299.5	1401.3	1503.2	1605.0	1706.8	1801.2	1895.5	1989.9	2084.3	2178.6
67.5°	1208.7	1317.4	1426.0	1534.6	1643.2	1751.8	1847.5	1943.2	2038.9	2134.6	2230.4
70°	1207.4	1320.7	1434.0	1547.2	1660.5	1773.8	1869.5	1965.2	2060.9	2156.6	2252.4
72.5°	1193.7	1309.4	1425.0	1540.6	1656.2	1771.8	1865.8	1959.9	2053.9	2148.0	2242.0
75°	1164.0	1279.1	1394.3	1509.5	1624.6	1739.8	1830.6	1921.4	2012.2	2103.0	2193.9
77.5°	1119.0	1231.0	1342.9	1454.8	1566.8	1678.7	1764.5	1850.3	1936.2	2022.0	2107.8
80°	1059.8	1166.2	1272.6	1378.9	1485.3	1591.7	1671.0	1750.2	1829.5	1908.7	1988.0
82.5°	990.4	1089.6	1188.9	1288.2	1387.4	1486.7	1559.1	1631.4	1703.8	1776.1	1848.5
85°	915.7	1007.1	1098.5	1189.8	1281.2	1372.6	1438.1	1503.6	1569.0	1634.5	1700.0
87.5°	837.4	920.4	1003.5	1086.5	1169.6	1252.6	1311.2	1369.8	1428.3	1486.9	1545.5
90°	761.7	837.0	912.4	987.8	1063.1	1138.5	1191.4	1244.3	1297.2	1350.1	1403.1
92.5°	701.6	770.1	838.7	907.3	975.9	1044.5	1092.9	1141.2	1189.6	1237.9	1286.3
95°	645.3	708.3	771.3	834.4	897.4	960.4	1006.1	1051.8	1097.5	1143.2	1188.8
97.5°	596.1	654.5	713.0	771.5	829.9	888.4	931.1	973.8	1016.5	1059.2	1101.8
100°	550.8	605.7	660.6	715.6	770.5	825.4	866.5	907.6	948.8	989.9	1031.0
102.5°	511.2	563.2	615.2	667.3	719.3	771.3	811.2	851.1	891.0	930.9	970.9
105°	476.2	526.2	576.2	626.3	676.3	726.3	765.2	804.1	843.0	881.9	920.9
107.5°	441.9	489.5	537.2	584.9	632.6	680.3	718.7	757.0	795.4	833.7	872.1
110°	408.9	454.5	500.2	545.9	591.6	637.3	675.0	712.7	750.3	788.0	825.7



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	379.0	422.4	465.9	509.4	552.8	596.3	633.0	669.7	706.3	743.0	779.7
115°	352.9	394.4	435.8	477.3	518.7	560.2	595.2	630.2	665.3	700.3	735.3
117.5°	326.5	365.8	405.2	444.5	483.9	523.2	556.8	590.4	623.9	657.5	691.1
120°	300.3	337.0	373.8	410.6	447.4	484.2	517.0	549.8	582.6	615.4	648.1
122.5°	272.7	306.6	340.5	374.4	408.3	442.2	474.3	506.4	538.6	570.7	602.8
125°	245.9	277.4	308.8	340.3	371.7	403.2	433.7	464.1	494.6	525.0	555.5
127.5°	219.9	249.3	278.8	308.3	337.7	367.2	395.1	423.0	450.9	478.8	506.7
130°	190.7	217.4	244.1	270.7	297.4	324.1	349.7	375.2	400.8	426.4	451.9
132.5°	162.7	186.4	210.1	233.7	257.4	281.1	305.3	329.6	353.8	378.0	402.3
135°	135.7	156.4	177.1	197.7	218.4	239.1	262.3	285.6	308.8	332.0	355.3
137.5°	110.6	128.5	146.4	164.3	182.2	200.1	221.8	243.5	265.1	286.8	308.5
140°	89.8	105.3	120.7	136.2	151.6	167.1	186.0	204.9	223.8	242.7	261.5
142.5°	72.0	85.1	98.1	111.1	124.1	137.1	153.2	169.3	185.4	201.5	217.7
145°	56.2	66.8	77.3	87.9	98.4	109.0	122.5	135.9	149.4	162.8	176.3
147.5°	44.3	52.7	61.0	69.3	77.7	86.0	97.1	108.2	119.4	130.5	141.6
150°	33.4	39.6	45.7	51.8	57.9	64.0	73.1	82.2	91.4	100.5	109.6
152.5°	24.3	28.7	33.0	37.3	41.7	46.0	53.2	60.4	67.7	74.9	82.1
155°	15.2	17.8	20.3	22.9	25.4	28.0	33.8	39.6	45.3	51.1	56.9
157.5°	10.2	11.8	13.3	14.9	16.4	18.0	22.1	26.2	30.3	34.4	38.6
160°	6.1	6.9	7.7	8.4	9.2	10.0	12.4	14.9	17.3	19.8	22.2
162.5°	3.9	4.1	4.3	4.6	4.8	5.0	6.0	7.0	8.0	9.0	10.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.7	3.0	3.3	3.7
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: P201352

CATALOG NUMBER: 4LBLELD4-10-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°	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1239.8	1240.1	1240.3	1240.5	1239.3	1238.1	1236.8	1235.6	1234.4	1233.2	1231.9
5°	1252.3	1253.0	1253.8	1254.6	1254.5	1254.4	1254.3	1254.2	1254.0	1253.9	1253.8
7.5°	1264.6	1266.3	1267.9	1269.6	1269.7	1269.8	1269.9	1270.0	1270.2	1270.3	1270.4
10°	1275.3	1278.0	1280.8	1283.6	1283.9	1284.3	1284.6	1284.9	1285.3	1285.6	1285.9
12.5°	1283.9	1287.8	1291.7	1295.6	1296.5	1297.4	1298.3	1299.2	1300.0	1300.9	1301.8
15°	1292.9	1298.2	1303.4	1308.6	1310.3	1311.9	1313.6	1315.3	1316.9	1318.6	1320.3
17.5°	1304.9	1312.2	1319.4	1326.6	1329.7	1332.8	1335.9	1339.0	1342.2	1345.3	1348.4
20°	1322.9	1333.5	1344.0	1354.6	1358.5	1362.4	1366.3	1370.2	1374.0	1377.9	1381.8
22.5°	1343.3	1356.4	1369.5	1382.6	1386.9	1391.3	1395.6	1399.9	1404.3	1408.6	1412.9
25°	1364.9	1379.8	1394.7	1409.6	1414.6	1419.6	1424.6	1429.6	1434.6	1439.6	1444.6
27.5°	1387.3	1404.0	1420.8	1437.6	1443.4	1449.2	1455.0	1460.8	1466.5	1472.3	1478.1
30°	1408.9	1427.8	1446.7	1465.6	1472.6	1479.6	1486.6	1493.6	1500.7	1507.7	1514.7
32.5°	1432.3	1453.8	1475.2	1496.7	1505.4	1514.0	1522.7	1531.4	1540.0	1548.7	1557.4
35°	1460.0	1484.6	1509.1	1533.7	1544.0	1554.4	1564.7	1575.0	1585.4	1595.7	1606.0
37.5°	1491.0	1518.9	1546.8	1574.7	1586.6	1598.5	1610.4	1622.3	1634.1	1646.0	1657.9
40°	1528.3	1560.5	1592.6	1624.7	1638.9	1653.2	1667.4	1681.6	1695.9	1710.1	1724.3
42.5°	1573.7	1610.7	1647.7	1684.7	1701.0	1717.4	1733.7	1750.1	1766.4	1782.8	1799.1
45°	1625.4	1667.9	1710.3	1752.8	1772.8	1792.8	1812.8	1832.8	1852.9	1872.9	1892.9
47.5°	1686.1	1734.6	1783.2	1831.8	1853.9	1876.0	1898.2	1920.3	1942.4	1964.5	1986.7
50°	1761.1	1817.4	1873.6	1929.9	1954.4	1978.8	2003.3	2027.7	2052.2	2076.6	2101.1
52.5°	1842.1	1906.1	1970.0	2033.9	2060.9	2087.9	2114.9	2141.9	2169.0	2196.0	2223.0
55°	1922.2	1992.7	2063.3	2133.9	2164.1	2194.4	2224.6	2254.9	2285.1	2315.4	2345.6
57.5°	2021.2	2100.2	2179.1	2258.0	2289.0	2320.0	2351.0	2382.0	2413.1	2444.1	2475.1
60°	2111.2	2196.2	2281.1	2366.0	2398.6	2431.2	2463.7	2496.3	2528.9	2561.5	2594.0
62.5°	2198.6	2289.1	2379.6	2470.1	2502.6	2535.0	2567.5	2599.9	2632.4	2664.8	2697.3
65°	2273.0	2367.4	2461.7	2556.1	2587.9	2619.7	2651.5	2683.3	2715.1	2746.9	2778.7
67.5°	2326.1	2421.8	2517.5	2613.2	2644.2	2675.2	2706.2	2737.2	2768.3	2799.3	2830.3
70°	2348.1	2443.8	2539.5	2635.2	2665.1	2695.0	2724.9	2754.8	2784.7	2814.6	2844.5
72.5°	2336.1	2430.1	2524.2	2618.2	2646.4	2674.7	2702.9	2731.1	2759.4	2787.6	2815.8
75°	2284.7	2375.5	2466.3	2557.1	2583.4	2609.8	2636.1	2662.5	2688.8	2715.2	2741.5
77.5°	2193.6	2279.5	2365.3	2451.1	2475.9	2500.7	2525.5	2550.3	2575.0	2599.8	2624.6
80°	2067.2	2146.5	2225.7	2305.0	2328.6	2352.1	2375.7	2399.3	2422.8	2446.4	2470.0
82.5°	1920.8	1993.2	2065.5	2137.9	2160.0	2182.1	2204.3	2226.4	2248.5	2270.6	2292.8
85°	1765.5	1830.9	1896.4	1961.9	1981.9	2001.9	2021.9	2041.9	2061.9	2081.9	2101.9
87.5°	1604.1	1662.6	1721.2	1779.8	1799.0	1818.3	1837.5	1856.7	1876.0	1895.2	1914.4
90°	1456.0	1508.9	1561.8	1614.7	1632.9	1651.2	1669.4	1687.6	1705.9	1724.1	1742.3
92.5°	1334.6	1383.0	1431.3	1479.7	1496.8	1513.9	1531.0	1548.1	1565.3	1582.4	1599.5
95°	1234.5	1280.2	1325.9	1371.6	1387.2	1402.7	1418.3	1433.9	1449.4	1465.0	1480.6
97.5°	1144.5	1187.2	1229.9	1272.6	1288.2	1303.7	1319.3	1334.8	1350.4	1365.9	1381.5
100°	1072.1	1113.3	1154.4	1195.5	1210.5	1225.5	1240.5	1255.5	1270.6	1285.6	1300.6
102.5°	1010.8	1050.7	1090.6	1130.5	1145.4	1160.3	1175.2	1190.1	1205.0	1219.9	1234.8
105°	959.8	998.7	1037.6	1076.5	1091.1	1105.6	1120.2	1134.7	1149.3	1163.8	1178.4
107.5°	910.4	948.8	987.1	1025.5	1040.1	1054.6	1069.2	1083.7	1098.3	1112.8	1127.4
110°	863.4	901.0	938.7	976.4	990.9	1005.3	1019.8	1034.2	1048.7	1063.1	1077.6



TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-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°	816.4	853.0	889.7	926.4	940.9	955.3	969.8	984.2	998.7	1013.1	1027.6
115°	770.3	805.4	840.4	875.4	889.5	903.6	917.7	931.8	946.0	960.1	974.2
117.5°	724.7	758.2	791.8	825.4	839.0	852.5	866.1	879.6	893.2	906.7	920.3
120°	680.9	713.7	746.5	779.3	792.1	804.9	817.7	830.5	843.2	856.0	868.8
122.5°	634.9	667.1	699.2	731.3	743.9	756.4	769.0	781.6	794.1	806.7	819.3
125°	585.9	616.4	646.8	677.3	689.7	702.2	714.6	727.1	739.5	752.0	764.4
127.5°	534.6	562.5	590.4	618.3	630.5	642.7	655.0	667.2	679.4	691.6	703.9
130°	477.5	503.1	528.6	554.2	565.9	577.6	589.2	600.9	612.6	624.3	635.9
132.5°	426.5	450.7	475.0	499.2	509.1	519.0	528.9	538.8	548.7	558.6	568.5
135°	378.5	401.7	425.0	448.2	456.9	465.5	474.2	482.9	491.5	500.2	508.9
137.5°	330.2	351.8	373.5	395.2	403.5	411.9	420.2	428.5	436.9	445.2	453.5
140°	280.4	299.3	318.2	337.1	345.8	354.5	363.1	371.8	380.5	389.2	397.8
142.5°	233.8	249.9	266.0	282.1	291.0	299.9	308.8	317.7	326.6	335.5	344.4
145°	189.7	203.2	216.6	230.1	239.1	248.1	257.1	266.1	275.1	284.1	293.1
147.5°	152.7	163.9	175.0	186.1	194.9	203.7	212.4	221.2	230.0	238.8	247.5
150°	118.7	127.9	137.0	146.1	154.2	162.3	170.4	178.5	186.7	194.8	202.9
152.5°	89.3	96.6	103.8	111.0	118.6	126.1	133.7	141.3	148.8	156.4	164.0
155°	62.7	68.4	74.2	80.0	86.8	93.6	100.4	107.2	113.9	120.7	127.5
157.5°	42.7	46.8	50.9	55.0	60.7	66.3	72.0	77.7	83.3	89.0	94.7
160°	24.7	27.1	29.6	32.0	36.7	41.3	46.0	50.7	55.3	60.0	64.7
162.5°	11.0	12.0	13.0	14.0	17.3	20.7	24.0	27.3	30.7	34.0	37.3
165°	4.0	4.3	4.7	5.0	7.1	9.2	11.3	13.4	15.6	17.7	19.8
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: P201352

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1221.5	1221.5
2.5°	1230.7	1229.5
5°	1253.7	1253.6
7.5°	1270.5	1270.6
10°	1286.3	1286.6
12.5°	1302.7	1303.6
15°	1321.9	1323.6
17.5°	1351.5	1354.6
20°	1385.7	1389.6
22.5°	1417.3	1421.6
25°	1449.6	1454.6
27.5°	1483.9	1489.7
30°	1521.7	1528.7
32.5°	1566.0	1574.7
35°	1616.4	1626.7
37.5°	1669.8	1681.7
40°	1738.6	1752.8
42.5°	1815.5	1831.8
45°	1912.9	1932.9
47.5°	2008.8	2030.9
50°	2125.5	2150.0
52.5°	2250.0	2277.0
55°	2375.9	2406.1
57.5°	2506.1	2537.1
60°	2626.6	2659.2
62.5°	2729.7	2762.2
65°	2810.5	2842.3
67.5°	2861.3	2892.3
70°	2874.4	2904.3
72.5°	2844.1	2872.3
75°	2767.9	2794.2
77.5°	2649.4	2674.2
80°	2493.5	2517.1
82.5°	2314.9	2337.0
85°	2121.9	2141.9
87.5°	1933.7	1952.9
90°	1760.6	1778.8
92.5°	1616.6	1633.7
95°	1496.1	1511.7
97.5°	1397.0	1412.6
100°	1315.6	1330.6
102.5°	1249.7	1264.6
105°	1192.9	1207.5
107.5°	1141.9	1156.5
110°	1092.0	1106.5





TEST NUMBER: P201352

CATALOG NUMBER: 4LBLED-LD4-10-ASYMF-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1042.0	1056.5
115°	988.3	1002.4
117.5°	933.8	947.4
120°	881.6	894.4
122.5°	831.8	844.4
125°	776.9	789.3
127.5°	716.1	728.3
130°	647.6	659.3
132.5°	578.4	588.3
135°	517.5	526.2
137.5°	461.9	470.2
140°	406.5	415.2
142.5°	353.3	362.2
145°	302.1	311.1
147.5°	256.3	265.1
150°	211.0	219.1
152.5°	171.5	179.1
155°	134.3	141.1
157.5°	100.3	106.0
160°	69.3	74.0
162.5°	40.7	44.0
165°	21.9	24.0
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)