

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: P201367

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28231)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-10-ASYMW-UNV-L840-CD2-U  
Description: 4 ft. Low Bay Linear, 10000 lm, Wht Asym lens, 4K  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
2UT217098A8404C, 2UT217056A8404B  
Ballast/Driver: OSRAM  
OT50W0100CC, OT50W0760CC

**Summary**

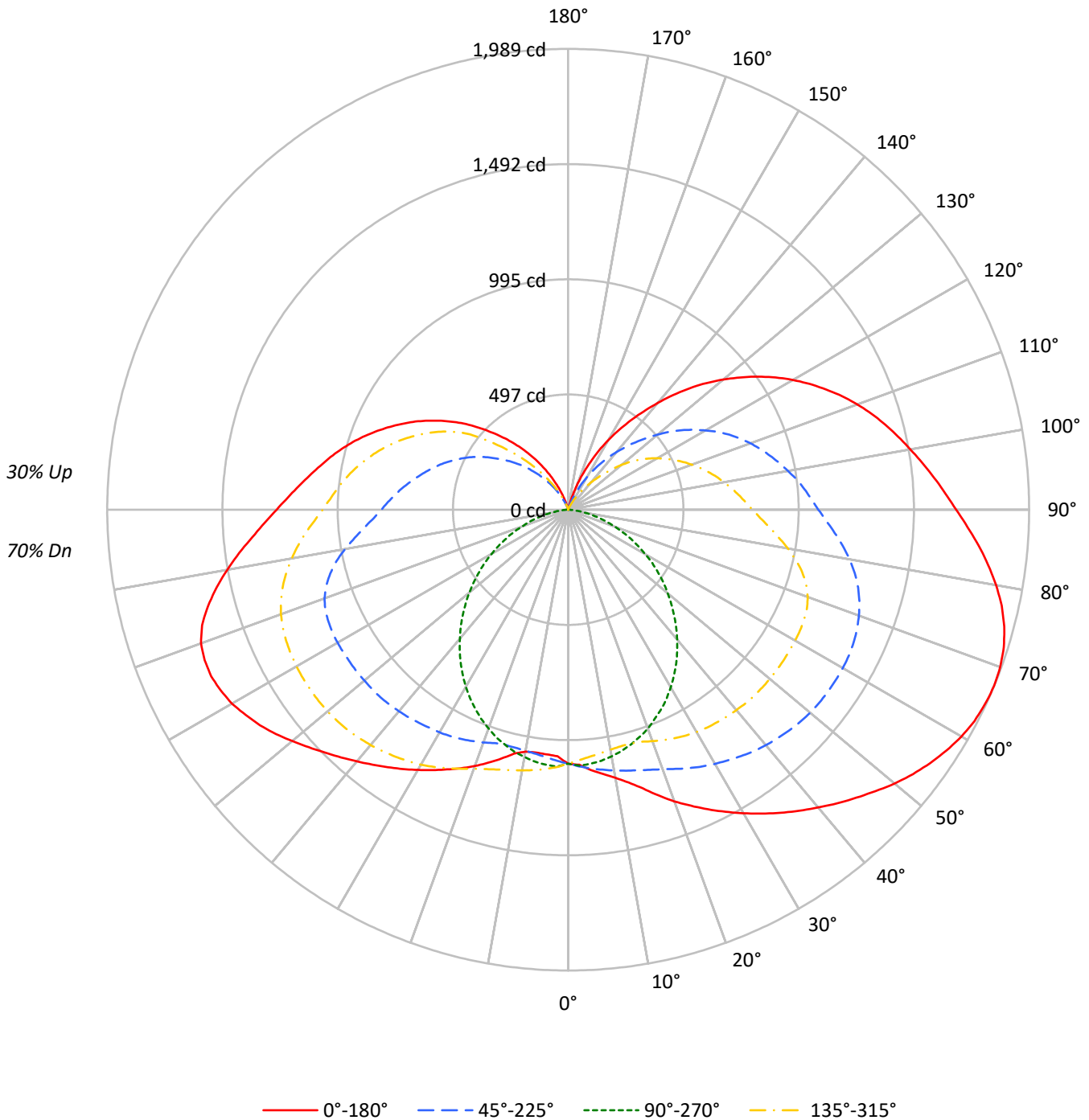
Lumens per Lamp: N/A  
Luminaire Lumens: 9961.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 82.8  
Input Voltage (V): NR  
Input 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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70				
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	49				
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36				
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28				
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23				
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19				
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16				
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14				
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12				
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10				
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	17659	17659	17659	17659
5°	16451	17727	15461	17791
10°	15762	17527	14221	17574
15°	15571	17243	13907	17292
20°	15809	16930	13886	16913
25°	16049	16491	13912	16456
30°	16375	15987	14037	15951
35°	16779	15412	14258	15336
40°	17258	14734	14584	14653
45°	17840	14015	15049	13928
50°	18556	13243	15680	13148
55°	19279	12396	16407	12265
60°	19995	11323	17096	11294
65°	20616	10222	17656	10154
70°	21137	8822	17962	8739
75°	21471	7195	17734	7247
80°	21576	5088	17192	5231
85°	21574	2435	16599	2783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	1.0
10°-20°	314.7	3.2
20°-30°	529.8	5.3
30°-40°	735.9	7.4
40°-50°	921.1	9.2
50°-60°	1071.8	10.8
60°-70°	1162.1	11.7
70°-80°	1144.0	11.5
80°-90°	1012.4	10.2
90°-100°	872.3	8.8
100°-110°	733.9	7.4
110°-120°	573.7	5.8
120°-130°	401.8	4.0
130°-140°	237.3	2.4
140°-150°	109.7	1.1
150°-160°	32.9	0.3
160°-170°	3.1	0.0
170°-180°	0.0	0.0
0°-30°	949.0	9.5
0°-40°	1684.9	16.9
0°-60°	3677.7	36.9
0°-90°	6996.2	70.2
90°-120°	2179.9	21.9
90°-150°	2928.8	29.4
90°-180°	2965.0	29.8
0°-180°	9961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1096	1096	1096	1096	1096	
5°	1128	1101	1060	1105	1128	109
15°	1245	1048	1112	1051	1245	357
25°	1427	950	1237	948	1427	663
35°	1597	812	1357	808	1597	1005
45°	1758	647	1483	643	1758	1363
55°	1907	474	1623	469	1907	1709
65°	1985	298	1700	296	1985	1966
75°	1948	138	1609	139	1948	2053
85°	1778	21	1368	24	1778	1472
90°	1674	0	1258	1	1674	918
95°	1585	0	1167	1	1585	1277
105°	1417	0	1012	1	1417	1498
115°	1228	0	847	1	1228	1219
125°	1001	0	669	1	1001	899
135°	742	0	475	2	742	576
145°	470	0	292	2	470	299
155°	227	0	124	2	227	110
165°	37	0	9	2	37	15
175°	0	0	0	2	0	0
180°	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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1101.9	1102.0	1102.1	1102.2	1102.3	1102.5	1102.6	1102.7	1102.8	1102.9	1103.6
5°	1127.9	1127.0	1126.1	1125.2	1124.3	1123.5	1122.6	1121.7	1120.8	1119.9	1120.0
7.5°	1149.9	1148.8	1147.7	1146.6	1145.5	1144.3	1143.2	1142.1	1141.0	1139.9	1139.0
10°	1174.9	1172.9	1170.9	1168.9	1166.9	1164.9	1162.9	1160.9	1158.9	1156.9	1155.3
12.5°	1205.9	1203.2	1200.6	1197.9	1195.2	1192.6	1189.9	1187.2	1184.6	1181.9	1178.8
15°	1244.9	1241.6	1238.2	1234.9	1231.6	1228.2	1224.9	1221.6	1218.2	1214.9	1209.2
17.5°	1292.9	1288.5	1284.0	1279.6	1275.1	1270.7	1266.2	1261.8	1257.3	1252.9	1244.5
20°	1339.9	1334.3	1328.8	1323.2	1317.7	1312.1	1306.6	1301.0	1295.5	1289.9	1279.0
22.5°	1382.9	1376.7	1370.5	1364.2	1358.0	1351.8	1345.6	1339.3	1333.1	1326.9	1314.0
25°	1426.9	1420.0	1413.1	1406.2	1399.3	1392.5	1385.6	1378.7	1371.8	1364.9	1350.0
27.5°	1469.9	1462.3	1454.8	1447.2	1439.7	1432.1	1424.6	1417.0	1409.5	1401.9	1385.0
30°	1512.9	1504.5	1496.0	1487.6	1479.1	1470.7	1462.2	1453.8	1445.3	1436.9	1418.0
32.5°	1554.9	1545.7	1536.5	1527.2	1518.0	1508.8	1499.6	1490.3	1481.1	1471.9	1450.8
35°	1596.9	1587.1	1577.3	1567.6	1557.8	1548.0	1538.2	1528.5	1518.7	1508.9	1485.6
37.5°	1637.9	1627.1	1616.3	1605.6	1594.8	1584.0	1573.2	1562.5	1551.7	1540.9	1515.7
40°	1677.9	1666.2	1654.6	1642.9	1631.2	1619.6	1607.9	1596.2	1584.6	1572.9	1545.6
42.5°	1718.9	1706.3	1693.8	1681.2	1668.7	1656.1	1643.6	1631.0	1618.5	1605.9	1576.1
45°	1757.9	1744.6	1731.2	1717.9	1704.6	1691.2	1677.9	1664.6	1651.2	1637.9	1605.7
47.5°	1797.9	1783.6	1769.2	1754.9	1740.6	1726.2	1711.9	1697.6	1683.2	1668.9	1634.2
50°	1838.9	1823.2	1807.6	1791.9	1776.2	1760.6	1744.9	1729.2	1713.6	1697.9	1660.7
52.5°	1874.9	1858.3	1841.8	1825.2	1808.7	1792.1	1775.6	1759.0	1742.5	1725.9	1686.0
55°	1906.9	1889.6	1872.2	1854.9	1837.6	1820.2	1802.9	1785.6	1768.2	1750.9	1708.3
57.5°	1934.9	1917.0	1899.1	1881.2	1863.3	1845.5	1827.6	1809.7	1791.8	1773.9	1728.9
60°	1958.9	1940.3	1921.8	1903.2	1884.7	1866.1	1847.6	1829.0	1810.5	1791.9	1744.8
62.5°	1975.9	1957.1	1938.3	1919.6	1900.8	1882.0	1863.2	1844.5	1825.7	1806.9	1757.8
65°	1984.9	1966.0	1947.1	1928.2	1909.3	1890.5	1871.6	1852.7	1833.8	1814.9	1764.2
67.5°	1988.9	1969.8	1950.7	1931.6	1912.5	1893.3	1874.2	1855.1	1836.0	1816.9	1764.9
70°	1983.9	1964.7	1945.5	1926.2	1907.0	1887.8	1868.6	1849.3	1830.1	1810.9	1758.0
72.5°	1970.9	1951.7	1932.5	1913.2	1894.0	1874.8	1855.6	1836.3	1817.1	1797.9	1744.6
75°	1947.9	1928.9	1909.9	1890.9	1871.9	1852.9	1833.9	1814.9	1795.9	1776.9	1723.3
77.5°	1915.9	1897.3	1878.8	1860.2	1841.7	1823.1	1804.6	1786.0	1767.5	1748.9	1695.3
80°	1874.9	1856.7	1838.5	1820.2	1802.0	1783.8	1765.6	1747.3	1729.1	1710.9	1657.8
82.5°	1827.9	1810.1	1792.3	1774.6	1756.8	1739.0	1721.2	1703.5	1685.7	1667.9	1615.3
85°	1777.9	1760.2	1742.6	1724.9	1707.2	1689.6	1671.9	1654.2	1636.6	1618.9	1567.3
87.5°	1724.9	1707.6	1690.2	1672.9	1655.6	1638.2	1620.9	1603.6	1586.2	1568.9	1518.5
90°	1673.9	1656.8	1639.7	1622.6	1605.5	1588.3	1571.2	1554.1	1537.0	1519.9	1470.9
92.5°	1627.9	1611.2	1594.6	1577.9	1561.2	1544.6	1527.9	1511.2	1494.6	1477.9	1430.4
95°	1584.9	1568.8	1552.7	1536.6	1520.5	1504.3	1488.2	1472.1	1456.0	1439.9	1393.6
97.5°	1541.9	1526.1	1510.3	1494.6	1478.8	1463.0	1447.2	1431.5	1415.7	1399.9	1354.9
100°	1498.9	1483.6	1468.2	1452.9	1437.6	1422.2	1406.9	1391.6	1376.2	1360.9	1316.7
102.5°	1457.9	1442.9	1427.9	1412.9	1397.9	1382.9	1367.9	1352.9	1337.9	1322.9	1279.6
105°	1416.9	1402.2	1387.6	1372.9	1358.2	1343.6	1328.9	1314.2	1299.6	1284.9	1242.2
107.5°	1373.9	1359.3	1344.8	1330.2	1315.7	1301.1	1286.6	1272.0	1257.5	1242.9	1201.5
110°	1327.9	1313.6	1299.2	1284.9	1270.6	1256.2	1241.9	1227.6	1213.2	1198.9	1158.7



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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°	1279.9	1265.8	1251.7	1237.6	1223.5	1209.3	1195.2	1181.1	1167.0	1152.9	1113.9
115°	1227.9	1213.7	1199.5	1185.2	1171.0	1156.8	1142.6	1128.3	1114.1	1099.9	1062.8
117.5°	1174.9	1161.7	1148.5	1135.3	1122.1	1108.8	1095.6	1082.4	1069.2	1056.0	1019.6
120°	1119.9	1106.6	1093.3	1079.9	1066.6	1053.3	1040.0	1026.6	1013.3	1000.0	964.9
122.5°	1062.0	1049.1	1036.2	1023.3	1010.4	997.6	984.7	971.8	958.9	946.0	912.2
125°	1001.0	988.8	976.6	964.3	952.1	939.9	927.7	915.4	903.2	891.0	858.4
127.5°	938.0	926.4	914.9	903.3	891.8	880.2	868.7	857.1	845.6	834.0	802.7
130°	874.0	863.1	852.2	841.3	830.4	819.6	808.7	797.8	786.9	776.0	745.8
132.5°	809.0	798.7	788.3	778.0	767.7	757.3	747.0	736.7	726.3	716.0	687.2
135°	742.0	732.1	722.2	712.3	702.4	692.6	682.7	672.8	662.9	653.0	626.2
137.5°	671.0	661.7	652.3	643.0	633.7	624.3	615.0	605.7	596.3	587.0	562.7
140°	601.0	592.6	584.1	575.7	567.2	558.8	550.3	541.9	533.4	525.0	502.7
142.5°	533.0	525.7	518.3	511.0	503.7	496.3	489.0	481.7	474.3	467.0	446.8
145°	470.0	463.4	456.9	450.3	443.8	437.2	430.7	424.1	417.6	411.0	392.3
147.5°	408.0	402.1	396.2	390.3	384.4	378.6	372.7	366.8	360.9	355.0	337.9
150°	348.0	342.7	337.3	332.0	326.7	321.3	316.0	310.7	305.3	300.0	284.7
152.5°	288.0	283.1	278.2	273.3	268.4	263.6	258.7	253.8	248.9	244.0	230.8
155°	227.0	222.9	218.8	214.7	210.6	206.4	202.3	198.2	194.1	190.0	178.2
157.5°	172.0	168.6	165.1	161.7	158.2	154.8	151.3	147.9	144.4	141.0	131.4
160°	120.0	116.8	113.6	110.3	107.1	103.9	100.7	97.4	94.2	91.0	84.7
162.5°	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	49.8
165°	37.0	35.7	34.3	33.0	31.7	30.3	29.0	27.7	26.3	25.0	23.0
167.5°	13.0	12.6	12.1	11.7	11.2	10.8	10.3	9.9	9.4	9.0	8.2
170°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1104.2	1104.9	1105.6	1106.2	1106.9	1107.6	1108.2	1108.9	1107.3	1105.8	1104.2
5°	1120.1	1120.2	1120.3	1120.5	1120.6	1120.7	1120.8	1120.9	1118.5	1116.0	1113.6
7.5°	1138.1	1137.2	1136.3	1135.5	1134.6	1133.7	1132.8	1131.9	1128.3	1124.8	1121.2
10°	1153.8	1152.2	1150.7	1149.1	1147.6	1146.0	1144.5	1142.9	1137.8	1132.7	1127.6
12.5°	1175.7	1172.6	1169.5	1166.3	1163.2	1160.1	1157.0	1153.9	1147.1	1140.3	1133.6
15°	1203.6	1197.9	1192.2	1186.6	1180.9	1175.2	1169.6	1163.9	1155.1	1146.3	1137.6
17.5°	1236.0	1227.6	1219.1	1210.7	1202.2	1193.8	1185.3	1176.9	1165.7	1154.5	1143.3
20°	1268.1	1257.2	1246.3	1235.5	1224.6	1213.7	1202.8	1191.9	1177.7	1163.5	1149.3
22.5°	1301.1	1288.2	1275.3	1262.5	1249.6	1236.7	1223.8	1210.9	1193.2	1175.6	1157.9
25°	1335.1	1320.2	1305.3	1290.5	1275.6	1260.7	1245.8	1230.9	1209.4	1187.8	1166.3
27.5°	1368.1	1351.2	1334.3	1317.5	1300.6	1283.7	1266.8	1249.9	1224.6	1199.3	1173.9
30°	1399.1	1380.2	1361.3	1342.5	1323.6	1304.7	1285.8	1266.9	1238.0	1209.1	1180.3
32.5°	1429.7	1408.6	1387.5	1366.3	1345.2	1324.1	1303.0	1281.9	1249.7	1217.5	1185.3
35°	1462.2	1438.9	1415.6	1392.2	1368.9	1345.6	1322.2	1298.9	1263.6	1228.3	1192.9
37.5°	1490.5	1465.2	1440.0	1414.8	1389.6	1364.3	1339.1	1313.9	1275.6	1237.3	1198.9
40°	1518.2	1490.9	1463.6	1436.2	1408.9	1381.6	1354.2	1326.9	1285.9	1244.9	1203.9
42.5°	1546.3	1516.6	1486.8	1457.0	1427.2	1397.5	1367.7	1337.9	1294.2	1250.6	1206.9
45°	1573.5	1541.2	1509.0	1476.8	1444.6	1412.3	1380.1	1347.9	1301.7	1255.5	1209.3
47.5°	1599.6	1564.9	1530.2	1495.6	1460.9	1426.2	1391.6	1356.9	1308.0	1259.1	1210.3
50°	1623.5	1586.2	1549.0	1511.8	1474.6	1437.3	1400.1	1362.9	1311.5	1260.0	1208.6
52.5°	1646.1	1606.2	1566.3	1526.5	1486.6	1446.7	1406.8	1366.9	1313.0	1259.1	1205.3
55°	1665.8	1623.2	1580.7	1538.1	1495.6	1453.0	1410.5	1367.9	1311.9	1255.9	1199.9
57.5°	1683.9	1638.9	1593.9	1548.9	1503.9	1458.9	1413.9	1368.9	1310.6	1252.3	1193.9
60°	1697.7	1650.6	1603.5	1556.3	1509.2	1462.1	1415.0	1367.9	1307.4	1246.8	1186.3
62.5°	1708.7	1659.6	1610.5	1561.3	1512.2	1463.1	1414.0	1364.9	1302.4	1239.8	1177.3
65°	1713.6	1662.9	1612.2	1561.6	1510.9	1460.2	1409.6	1358.9	1294.4	1229.8	1165.3
67.5°	1712.9	1660.9	1608.9	1556.9	1504.9	1452.9	1400.9	1348.9	1282.6	1216.3	1149.9
70°	1705.1	1652.2	1599.3	1546.5	1493.6	1440.7	1387.8	1334.9	1267.2	1199.6	1131.9
72.5°	1691.2	1637.9	1584.6	1531.2	1477.9	1424.6	1371.2	1317.9	1249.0	1180.1	1111.3
75°	1669.8	1616.2	1562.7	1509.1	1455.6	1402.0	1348.5	1294.9	1225.4	1155.8	1086.3
77.5°	1641.8	1588.2	1534.7	1481.1	1427.6	1374.0	1320.5	1266.9	1197.1	1127.4	1057.6
80°	1604.7	1551.6	1498.5	1445.3	1392.2	1339.1	1286.0	1232.9	1163.5	1094.0	1024.6
82.5°	1562.8	1510.2	1457.7	1405.1	1352.6	1300.0	1247.5	1194.9	1126.2	1057.6	988.9
85°	1515.8	1464.2	1412.7	1361.1	1309.6	1258.0	1206.5	1154.9	1087.4	1019.8	952.3
87.5°	1468.0	1417.6	1367.1	1316.7	1266.2	1215.8	1165.3	1114.9	1048.7	982.5	916.3
90°	1421.9	1372.9	1323.9	1275.0	1226.0	1177.0	1128.0	1079.0	1013.9	948.8	883.7
92.5°	1382.8	1335.3	1287.7	1240.2	1192.6	1145.1	1097.5	1050.0	986.2	922.4	858.7
95°	1347.3	1300.9	1254.6	1208.3	1162.0	1115.6	1069.3	1023.0	960.2	897.4	834.7
97.5°	1309.9	1264.9	1219.9	1175.0	1130.0	1085.0	1040.0	995.0	933.3	871.7	810.0
100°	1272.5	1228.3	1184.1	1139.8	1095.6	1051.4	1007.2	963.0	902.7	842.3	782.0
102.5°	1236.3	1192.9	1149.6	1106.3	1063.0	1019.6	976.3	933.0	873.8	814.6	755.3
105°	1199.6	1156.9	1114.3	1071.6	1029.0	986.3	943.7	901.0	842.9	784.8	726.7
107.5°	1160.0	1118.6	1077.2	1035.7	994.3	952.9	911.4	870.0	813.0	756.0	699.0
110°	1118.5	1078.3	1038.1	997.8	957.6	917.4	877.2	837.0	781.1	725.2	669.3





TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1074.9	1035.9	996.9	958.0	919.0	880.0	841.0	802.0	747.6	693.1	638.7
115°	1025.7	988.6	951.5	914.4	877.3	840.2	803.1	766.0	712.8	659.6	606.3
117.5°	983.1	946.7	910.2	873.8	837.3	800.9	764.4	728.0	676.3	624.7	573.0
120°	929.8	894.7	859.6	824.4	789.3	754.2	719.1	684.0	634.7	585.3	536.0
122.5°	878.4	844.7	810.9	777.1	743.3	709.6	675.8	642.0	594.6	547.1	499.7
125°	825.9	793.3	760.8	728.2	695.7	663.1	630.6	598.0	552.9	507.8	462.7
127.5°	771.3	740.0	708.7	677.3	646.0	614.7	583.3	552.0	509.4	466.9	424.3
130°	715.6	685.3	655.1	624.9	594.7	564.4	534.2	504.0	464.3	424.7	385.0
132.5°	658.4	629.7	600.9	572.1	543.3	514.6	485.8	457.0	420.2	383.4	346.7
135°	599.4	572.7	545.9	519.1	492.3	465.6	438.8	412.0	377.9	343.8	309.7
137.5°	538.3	514.0	489.7	465.3	441.0	416.7	392.3	368.0	336.6	305.1	273.7
140°	480.3	458.0	435.7	413.3	391.0	368.7	346.3	324.0	294.7	265.3	236.0
142.5°	426.6	406.3	386.1	365.9	345.7	325.4	305.2	285.0	258.2	231.4	204.7
145°	373.7	355.0	336.3	317.7	299.0	280.3	261.7	243.0	219.4	195.9	172.3
147.5°	320.8	303.7	286.6	269.4	252.3	235.2	218.1	201.0	181.2	161.4	141.7
150°	269.3	254.0	238.7	223.3	208.0	192.7	177.3	162.0	145.8	129.6	113.3
152.5°	217.6	204.3	191.1	177.9	164.7	151.4	138.2	125.0	112.2	99.4	86.7
155°	166.4	154.7	142.9	131.1	119.3	107.6	95.8	84.0	75.3	66.7	58.0
157.5°	121.9	112.3	102.8	93.2	83.7	74.1	64.6	55.0	49.2	43.4	37.7
160°	78.3	72.0	65.7	59.3	53.0	46.7	40.3	34.0	30.3	26.7	23.0
162.5°	45.6	41.3	37.1	32.9	28.7	24.4	20.2	16.0	14.2	12.4	10.7
165°	21.0	19.0	17.0	15.0	13.0	11.0	9.0	7.0	6.2	5.4	4.7
167.5°	7.4	6.7	5.9	5.1	4.3	3.6	2.8	2.0	1.8	1.6	1.3
170°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	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: P201367

CATALOG NUMBER: 4LBLELD4-10-ASYMW-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1102.7	1101.1	1099.6	1098.0	1096.5	1094.9	1096.1	1097.3	1098.6	1099.8	1101.0
5°	1111.1	1108.7	1106.2	1103.8	1101.3	1098.9	1099.1	1099.3	1099.6	1099.8	1100.0
7.5°	1117.7	1114.1	1110.6	1107.0	1103.5	1099.9	1099.1	1098.3	1097.6	1096.8	1096.0
10°	1122.5	1117.3	1112.2	1107.1	1102.0	1096.9	1095.1	1093.4	1091.6	1089.8	1088.1
12.5°	1126.8	1120.0	1113.2	1106.5	1099.7	1092.9	1089.9	1086.9	1083.9	1080.9	1078.0
15°	1128.8	1120.0	1111.2	1102.5	1093.7	1084.9	1080.8	1076.7	1072.6	1068.5	1064.4
17.5°	1132.1	1120.8	1109.6	1098.4	1087.2	1076.0	1070.6	1065.1	1059.7	1054.2	1048.8
20°	1135.1	1120.8	1106.6	1092.4	1078.2	1064.0	1057.6	1051.1	1044.7	1038.2	1031.8
22.5°	1140.3	1122.6	1105.0	1087.3	1069.7	1052.0	1043.6	1035.1	1026.7	1018.2	1009.8
25°	1144.7	1123.2	1101.6	1080.1	1058.5	1037.0	1027.3	1017.7	1008.0	998.3	988.7
27.5°	1148.6	1123.3	1098.0	1072.6	1047.3	1022.0	1010.6	999.1	987.7	976.2	964.8
30°	1151.4	1122.5	1093.6	1064.8	1035.9	1007.0	993.4	979.9	966.3	952.8	939.2
32.5°	1153.1	1120.8	1088.6	1056.4	1024.2	992.0	976.1	960.2	944.3	928.4	912.6
35°	1157.6	1122.3	1087.0	1051.6	1016.3	981.0	962.2	943.4	924.7	905.9	887.1
37.5°	1160.6	1122.3	1084.0	1045.6	1007.3	969.0	947.1	925.2	903.3	881.4	859.6
40°	1162.9	1122.0	1081.0	1040.0	999.0	958.0	932.8	907.6	882.3	857.1	831.9
42.5°	1163.3	1119.6	1076.0	1032.3	988.7	945.0	916.7	888.3	860.0	831.7	803.3
45°	1163.1	1116.8	1070.6	1024.4	978.2	932.0	900.3	868.7	837.0	805.3	773.7
47.5°	1161.4	1112.5	1063.6	1014.8	965.9	917.0	882.2	847.4	812.7	777.9	743.1
50°	1157.2	1105.7	1054.3	1002.9	951.4	900.0	862.3	824.7	787.0	749.3	711.7
52.5°	1151.4	1097.5	1043.6	989.8	935.9	882.0	841.6	801.1	760.7	720.2	679.8
55°	1143.9	1088.0	1032.0	976.0	920.0	864.0	820.7	777.3	734.0	690.7	647.3
57.5°	1135.6	1077.3	1019.0	960.6	902.3	844.0	798.1	752.2	706.3	660.4	614.6
60°	1125.7	1065.2	1004.6	944.1	883.5	823.0	774.1	725.2	676.3	627.4	578.6
62.5°	1114.7	1052.2	989.6	927.1	864.5	802.0	750.8	699.6	648.3	597.1	545.9
65°	1100.7	1036.2	971.6	907.1	842.5	778.0	724.7	671.3	618.0	564.7	511.3
67.5°	1083.6	1017.3	951.0	884.6	818.3	752.0	697.0	642.0	587.0	532.0	477.0
70°	1064.3	996.6	929.0	861.3	793.7	726.0	669.1	612.2	555.3	498.4	441.6
72.5°	1042.4	973.5	904.6	835.8	766.9	698.0	639.9	581.8	523.7	465.6	407.4
75°	1016.7	947.2	877.6	808.1	738.5	669.0	610.0	551.0	492.0	433.0	374.0
77.5°	987.8	918.1	848.3	778.5	708.8	639.0	579.4	519.9	460.3	400.8	341.2
80°	955.2	885.7	816.3	746.9	677.4	608.0	548.3	488.7	429.0	369.3	309.7
82.5°	920.3	851.6	783.0	714.3	645.7	577.0	517.8	458.6	399.3	340.1	280.9
85°	884.7	817.2	749.6	682.1	614.5	547.0	488.6	430.1	371.7	313.2	254.8
87.5°	850.1	783.8	717.6	651.4	585.2	519.0	461.9	404.8	347.7	290.6	233.4
90°	818.6	753.4	688.3	623.2	558.1	493.0	438.2	383.4	328.7	273.9	219.1
92.5°	794.9	731.1	667.3	603.6	539.8	476.0	423.1	370.2	317.3	264.4	211.6
95°	771.9	709.1	646.3	583.6	520.8	458.0	407.1	356.2	305.3	254.4	203.6
97.5°	748.3	686.7	625.0	563.3	501.7	440.0	391.1	342.2	293.3	244.4	195.6
100°	721.7	661.3	601.0	540.7	480.3	420.0	373.3	326.7	280.0	233.3	186.7
102.5°	696.1	636.9	577.7	518.4	459.2	400.0	355.6	311.1	266.7	222.2	177.8
105°	668.6	610.4	552.3	494.2	436.1	378.0	336.0	294.0	252.0	210.0	168.0
107.5°	642.0	585.0	528.0	471.0	414.0	357.0	317.3	277.7	238.0	198.3	158.7
110°	613.4	557.6	501.7	445.8	389.9	334.0	296.9	259.8	222.7	185.6	148.4



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	584.2	529.8	475.3	420.9	366.4	312.0	277.3	242.7	208.0	173.3	138.7
115°	553.1	499.9	446.7	393.4	340.2	287.0	255.1	223.2	191.3	159.4	127.6
117.5°	521.3	469.7	418.0	366.3	314.7	263.0	233.8	204.6	175.3	146.1	116.9
120°	486.7	437.3	388.0	338.7	289.3	240.0	213.3	186.7	160.0	133.3	106.7
122.5°	452.2	404.8	357.3	309.9	262.4	215.0	191.1	167.2	143.3	119.4	95.6
125°	417.6	372.4	327.3	282.2	237.1	192.0	170.7	149.3	128.0	106.7	85.3
127.5°	381.8	339.2	296.7	254.1	211.6	169.0	150.2	131.4	112.7	93.9	75.1
130°	345.3	305.7	266.0	226.3	186.7	147.0	130.7	114.3	98.0	81.7	65.3
132.5°	309.9	273.1	236.3	199.6	162.8	126.0	112.0	98.0	84.0	70.0	56.0
135°	275.6	241.4	207.3	173.2	139.1	105.0	93.3	81.7	70.0	58.3	46.7
137.5°	242.2	210.8	179.3	147.9	116.4	85.0	75.6	66.1	56.7	47.2	37.8
140°	206.7	177.3	148.0	118.7	89.3	60.0	53.3	46.7	40.0	33.3	26.7
142.5°	177.9	151.1	124.3	97.6	70.8	44.0	39.1	34.2	29.3	24.4	19.6
145°	148.8	125.2	101.7	78.1	54.6	31.0	27.6	24.1	20.7	17.2	13.8
147.5°	121.9	102.1	82.3	62.6	42.8	23.0	20.4	17.9	15.3	12.8	10.2
150°	97.1	80.9	64.7	48.4	32.2	16.0	14.2	12.4	10.7	8.9	7.1
152.5°	73.9	61.1	48.3	35.6	22.8	10.0	8.9	7.8	6.7	5.6	4.4
155°	49.3	40.7	32.0	23.3	14.7	6.0	5.3	4.7	4.0	3.3	2.7
157.5°	31.9	26.1	20.3	14.6	8.8	3.0	2.7	2.3	2.0	1.7	1.3
160°	19.3	15.7	12.0	8.3	4.7	1.0	0.9	0.8	0.7	0.6	0.4
162.5°	8.9	7.1	5.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.1	0.9	0.7	0.4	0.2	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: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1102.2	1103.5	1104.7	1105.9	1103.7	1101.5	1099.2	1097.0	1094.8	1092.6	1090.3
5°	1100.2	1100.5	1100.7	1100.9	1098.1	1095.4	1092.6	1089.8	1087.1	1084.3	1081.5
7.5°	1095.2	1094.5	1093.7	1092.9	1089.8	1086.7	1083.6	1080.5	1077.4	1074.3	1071.2
10°	1086.3	1084.5	1082.8	1081.0	1077.7	1074.3	1071.0	1067.7	1064.3	1061.0	1057.7
12.5°	1075.0	1072.0	1069.0	1066.0	1062.7	1059.3	1056.0	1052.7	1049.3	1046.0	1042.7
15°	1060.3	1056.2	1052.1	1048.0	1044.8	1041.6	1038.3	1035.1	1031.9	1028.7	1025.4
17.5°	1043.3	1037.9	1032.4	1027.0	1024.1	1021.2	1018.3	1015.4	1012.6	1009.7	1006.8
20°	1025.3	1018.9	1012.4	1006.0	1003.6	1001.1	998.7	996.2	993.8	991.3	988.9
22.5°	1001.3	992.9	984.4	976.0	974.8	973.6	972.3	971.1	969.9	968.7	967.4
25°	979.0	969.3	959.7	950.0	949.6	949.1	948.7	948.2	947.8	947.3	946.9
27.5°	953.3	941.9	930.4	919.0	920.0	921.0	922.0	923.0	924.0	925.0	926.0
30°	925.7	912.1	898.6	885.0	888.0	891.0	894.0	897.0	900.0	903.0	906.0
32.5°	896.7	880.8	864.9	849.0	854.3	859.7	865.0	870.3	875.7	881.0	886.3
35°	868.3	849.6	830.8	812.0	819.9	827.8	835.7	843.6	851.4	859.3	867.2
37.5°	837.7	815.8	793.9	772.0	782.7	793.3	804.0	814.7	825.3	836.0	846.7
40°	806.7	781.4	756.2	731.0	744.4	757.9	771.3	784.8	798.2	811.7	825.1
42.5°	775.0	746.7	718.3	690.0	706.0	722.0	738.0	754.0	770.0	786.0	802.0
45°	742.0	710.3	678.7	647.0	665.8	684.6	703.3	722.1	740.9	759.7	778.4
47.5°	708.3	673.6	638.8	604.0	625.4	646.9	668.3	689.8	711.2	732.7	754.1
50°	674.0	636.3	598.7	561.0	585.1	609.2	633.3	657.4	681.6	705.7	729.8
52.5°	639.3	598.9	558.4	518.0	544.6	571.1	597.7	624.2	650.8	677.3	703.9
55°	604.0	560.7	517.3	474.0	502.9	531.8	560.7	589.6	618.4	647.3	676.2
57.5°	568.7	522.8	476.9	431.0	462.2	493.4	524.7	555.9	587.1	618.3	649.6
60°	529.7	480.8	431.9	383.0	416.9	450.8	484.7	518.6	552.4	586.3	620.2
62.5°	494.7	443.4	392.2	341.0	376.9	412.8	448.7	484.6	520.4	556.3	592.2
65°	458.0	404.7	351.3	298.0	335.8	373.6	411.3	449.1	486.9	524.7	562.4
67.5°	422.0	367.0	312.0	257.0	296.3	335.7	375.0	414.3	453.7	493.0	532.3
70°	384.7	327.8	270.9	214.0	254.9	295.8	336.7	377.6	418.4	459.3	500.2
72.5°	349.3	291.2	233.1	175.0	216.9	258.8	300.7	342.6	384.4	426.3	468.2
75°	315.0	256.0	197.0	138.0	180.9	223.8	266.7	309.6	352.4	395.3	438.2
77.5°	281.7	222.1	162.6	103.0	146.2	189.4	232.7	275.9	319.1	362.3	405.6
80°	250.0	190.3	130.7	71.0	114.2	157.4	200.7	243.9	287.1	330.3	373.6
82.5°	221.7	162.4	103.2	44.0	86.7	129.3	172.0	214.7	257.3	300.0	342.7
85°	196.3	137.9	79.4	21.0	62.9	104.8	146.7	188.6	230.4	272.3	314.2
87.5°	176.3	119.2	62.1	5.0	45.8	86.6	127.3	168.1	208.9	249.7	290.4
90°	164.3	109.6	54.8	0.0	39.0	78.0	117.0	156.0	195.0	234.0	273.0
92.5°	158.7	105.8	52.9	0.0	37.1	74.2	111.3	148.4	185.6	222.7	259.8
95°	152.7	101.8	50.9	0.0	35.3	70.7	106.0	141.3	176.7	212.0	247.3
97.5°	146.7	97.8	48.9	0.0	33.3	66.7	100.0	133.3	166.7	200.0	233.3
100°	140.0	93.3	46.7	0.0	31.3	62.7	94.0	125.3	156.7	188.0	219.3
102.5°	133.3	88.9	44.4	0.0	29.3	58.7	88.0	117.3	146.7	176.0	205.3
105°	126.0	84.0	42.0	0.0	27.3	54.7	82.0	109.3	136.7	164.0	191.3
107.5°	119.0	79.3	39.7	0.0	25.1	50.2	75.3	100.4	125.6	150.7	175.8
110°	111.3	74.2	37.1	0.0	23.1	46.2	69.3	92.4	115.6	138.7	161.8



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	104.0	69.3	34.7	0.0	21.1	42.2	63.3	84.4	105.6	126.7	147.8
115°	95.7	63.8	31.9	0.0	19.0	38.0	57.0	76.0	95.0	114.0	133.0
117.5°	87.7	58.4	29.2	0.0	17.1	34.2	51.3	68.4	85.6	102.7	119.8
120°	80.0	53.3	26.7	0.0	15.1	30.2	45.3	60.4	75.6	90.7	105.8
122.5°	71.7	47.8	23.9	0.0	13.2	26.4	39.7	52.9	66.1	79.3	92.6
125°	64.0	42.7	21.3	0.0	11.2	22.4	33.7	44.9	56.1	67.3	78.6
127.5°	56.3	37.6	18.8	0.0	9.1	18.2	27.3	36.4	45.6	54.7	63.8
130°	49.0	32.7	16.3	0.0	7.2	14.4	21.7	28.9	36.1	43.3	50.6
132.5°	42.0	28.0	14.0	0.0	5.6	11.1	16.7	22.2	27.8	33.3	38.9
135°	35.0	23.3	11.7	0.0	4.1	8.2	12.3	16.4	20.6	24.7	28.8
137.5°	28.3	18.9	9.4	0.0	2.8	5.6	8.3	11.1	13.9	16.7	19.4
140°	20.0	13.3	6.7	0.0	1.8	3.6	5.3	7.1	8.9	10.7	12.4
142.5°	14.7	9.8	4.9	0.0	1.1	2.2	3.3	4.4	5.6	6.7	7.8
145°	10.3	6.9	3.4	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7
147.5°	7.7	5.1	2.6	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
150°	5.3	3.6	1.8	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
152.5°	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.2	0.1	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: P201367

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

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1088.1	1085.9	1085.5	1085.0	1084.6	1084.1	1083.7	1083.2	1082.8	1082.3	1081.9
5°	1078.8	1076.0	1075.3	1074.7	1074.0	1073.3	1072.7	1072.0	1071.3	1070.7	1070.0
7.5°	1068.1	1065.0	1064.4	1063.9	1063.3	1062.8	1062.2	1061.7	1061.1	1060.6	1060.0
10°	1054.3	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0	1051.0
12.5°	1039.3	1036.0	1037.1	1038.2	1039.3	1040.4	1041.6	1042.7	1043.8	1044.9	1046.0
15°	1022.2	1019.0	1021.8	1024.6	1027.3	1030.1	1032.9	1035.7	1038.4	1041.2	1044.0
17.5°	1003.9	1001.0	1006.4	1011.9	1017.3	1022.8	1028.2	1033.7	1039.1	1044.6	1050.0
20°	986.4	984.0	992.8	1001.6	1010.3	1019.1	1027.9	1036.7	1045.4	1054.2	1063.0
22.5°	966.2	965.0	977.3	989.7	1002.0	1014.3	1026.7	1039.0	1051.3	1063.7	1076.0
25°	946.4	946.0	961.8	977.5	993.3	1009.1	1024.8	1040.6	1056.4	1072.1	1087.9
27.5°	927.0	928.0	947.0	966.0	985.0	1004.0	1022.9	1041.9	1060.9	1079.9	1098.9
30°	909.0	912.0	933.8	955.5	977.3	999.1	1020.8	1042.6	1064.4	1086.1	1107.9
32.5°	891.7	897.0	921.2	945.4	969.6	993.8	1018.1	1042.3	1066.5	1090.7	1114.9
35°	875.1	883.0	909.3	935.6	962.0	988.3	1014.6	1040.9	1067.3	1093.6	1119.9
37.5°	857.3	868.0	896.5	925.1	953.6	982.2	1010.7	1039.3	1067.8	1096.4	1124.9
40°	838.6	852.0	882.8	913.5	944.3	975.1	1005.8	1036.6	1067.4	1098.1	1128.9
42.5°	818.0	834.0	867.2	900.4	933.6	966.8	1000.1	1033.3	1066.5	1099.7	1132.9
45°	797.2	816.0	851.4	886.9	922.3	957.7	993.2	1028.6	1064.0	1099.5	1134.9
47.5°	775.6	797.0	834.7	872.3	910.0	947.6	985.3	1022.9	1060.6	1098.2	1135.9
50°	753.9	778.0	817.8	857.5	897.3	937.1	976.8	1016.6	1056.4	1096.1	1135.9
52.5°	730.4	757.0	799.0	841.0	883.0	925.0	966.9	1008.9	1050.9	1092.9	1134.9
55°	705.1	734.0	778.4	822.9	867.3	911.7	956.2	1000.6	1045.0	1089.5	1133.9
57.5°	680.8	712.0	758.7	805.3	852.0	898.6	945.3	991.9	1038.6	1085.2	1131.9
60°	654.1	688.0	737.2	786.4	835.6	884.8	934.1	983.3	1032.5	1081.7	1130.9
62.5°	628.1	664.0	715.5	767.1	818.6	870.2	921.7	973.3	1024.8	1076.4	1127.9
65°	600.2	638.0	691.9	745.8	799.6	853.5	907.4	961.3	1015.1	1069.0	1122.9
67.5°	571.7	611.0	667.0	723.0	779.0	835.0	890.9	946.9	1002.9	1058.9	1114.9
70°	541.1	582.0	639.5	697.1	754.6	812.2	869.7	927.3	984.8	1042.4	1099.9
72.5°	510.1	552.0	610.3	668.7	727.0	785.3	843.7	902.0	960.3	1018.7	1077.0
75°	481.1	524.0	582.0	640.0	698.0	756.0	814.0	872.0	930.0	988.0	1046.0
77.5°	448.8	492.0	549.2	606.4	663.7	720.9	778.1	835.3	892.6	949.8	1007.0
80°	416.8	460.0	515.8	571.6	627.3	683.1	738.9	794.7	850.4	906.2	962.0
82.5°	385.3	428.0	482.2	536.4	590.7	644.9	699.1	753.3	807.6	861.8	916.0
85°	356.1	398.0	450.6	503.1	555.7	608.2	660.8	713.3	765.9	818.4	871.0
87.5°	331.2	372.0	422.9	473.8	524.7	575.6	626.4	677.3	728.2	779.1	830.0
90°	312.0	351.0	400.3	449.7	499.0	548.3	597.7	647.0	696.3	745.7	795.0
92.5°	296.9	334.0	381.9	429.8	477.7	525.6	573.4	621.3	669.2	717.1	765.0
95°	282.7	318.0	364.7	411.3	458.0	504.7	551.3	598.0	644.7	691.3	738.0
97.5°	266.7	300.0	345.6	391.1	436.7	482.2	527.8	573.3	618.9	664.4	710.0
100°	250.7	282.0	326.4	370.9	415.3	459.8	504.2	548.7	593.1	637.6	682.0
102.5°	234.7	264.0	307.6	351.1	394.7	438.2	481.8	525.3	568.9	612.4	656.0
105°	218.7	246.0	288.3	330.7	373.0	415.3	457.7	500.0	542.3	584.7	627.0
107.5°	200.9	226.0	267.3	308.7	350.0	391.3	432.7	474.0	515.3	556.7	598.0
110°	184.9	208.0	248.0	288.0	328.0	368.0	408.0	448.0	488.0	528.0	568.0



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	168.9	190.0	228.7	267.3	306.0	344.7	383.3	422.0	460.7	499.3	538.0
115°	152.0	171.0	208.3	245.7	283.0	320.3	357.7	395.0	432.3	469.7	507.0
117.5°	136.9	154.0	189.8	225.6	261.3	297.1	332.9	368.7	404.4	440.2	476.0
120°	120.9	136.0	170.2	204.4	238.7	272.9	307.1	341.3	375.6	409.8	444.0
122.5°	105.8	119.0	151.4	183.9	216.3	248.8	281.2	313.7	346.1	378.6	411.0
125°	89.8	101.0	131.7	162.3	193.0	223.7	254.3	285.0	315.7	346.3	377.0
127.5°	72.9	82.0	110.8	139.6	168.3	197.1	225.9	254.7	283.4	312.2	341.0
130°	57.8	65.0	91.1	117.2	143.3	169.4	195.6	221.7	247.8	273.9	300.0
132.5°	44.4	50.0	73.3	96.7	120.0	143.3	166.7	190.0	213.3	236.7	260.0
135°	32.9	37.0	57.4	77.9	98.3	118.8	139.2	159.7	180.1	200.6	221.0
137.5°	22.2	25.0	42.9	60.8	78.7	96.6	114.4	132.3	150.2	168.1	186.0
140°	14.2	16.0	31.4	46.9	62.3	77.8	93.2	108.7	124.1	139.6	155.0
142.5°	8.9	10.0	22.9	35.8	48.7	61.6	74.4	87.3	100.2	113.1	126.0
145°	5.3	6.0	16.1	26.2	36.3	46.4	56.6	66.7	76.8	86.9	97.0
147.5°	2.7	3.0	10.8	18.6	26.3	34.1	41.9	49.7	57.4	65.2	73.0
150°	1.8	2.0	7.4	12.9	18.3	23.8	29.2	34.7	40.1	45.6	51.0
152.5°	0.0	0.0	3.7	7.3	11.0	14.7	18.3	22.0	25.7	29.3	33.0
155°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0
157.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.4	5.3	6.2	7.1	8.0
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: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1081.1	1080.4	1079.6	1078.8	1078.1	1077.3	1076.5	1075.8	1075.0	1073.9	1072.8
5°	1069.2	1068.4	1067.7	1066.9	1066.1	1065.3	1064.6	1063.8	1063.0	1062.7	1062.3
7.5°	1059.8	1059.6	1059.3	1059.1	1058.9	1058.7	1058.4	1058.2	1058.0	1057.9	1057.8
10°	1052.0	1053.0	1054.0	1055.0	1056.0	1057.0	1058.0	1059.0	1060.0	1060.0	1060.0
12.5°	1048.6	1051.1	1053.7	1056.2	1058.8	1061.3	1063.9	1066.4	1069.0	1070.0	1071.0
15°	1049.2	1054.4	1059.6	1064.8	1070.1	1075.3	1080.5	1085.7	1090.9	1093.2	1095.6
17.5°	1057.8	1065.5	1073.3	1081.1	1088.8	1096.6	1104.4	1112.1	1119.9	1122.7	1125.5
20°	1072.2	1081.4	1090.6	1099.8	1109.1	1118.3	1127.5	1136.7	1145.9	1149.3	1152.8
22.5°	1086.7	1097.3	1108.0	1118.6	1129.3	1139.9	1150.6	1161.2	1171.9	1175.9	1179.9
25°	1100.2	1112.6	1124.9	1137.2	1149.6	1161.9	1174.2	1186.6	1198.9	1203.1	1207.3
27.5°	1112.3	1125.8	1139.2	1152.7	1166.1	1179.6	1193.0	1206.5	1219.9	1225.1	1230.3
30°	1123.0	1138.1	1153.2	1168.3	1183.5	1198.6	1213.7	1228.8	1243.9	1249.8	1255.7
32.5°	1131.7	1148.5	1165.2	1182.0	1198.8	1215.6	1232.3	1249.1	1265.9	1272.7	1279.5
35°	1138.6	1157.2	1175.9	1194.6	1213.2	1231.9	1250.6	1269.2	1287.9	1295.6	1303.2
37.5°	1145.3	1165.8	1186.2	1206.7	1227.1	1247.6	1268.0	1288.5	1308.9	1317.6	1326.2
40°	1151.3	1173.8	1196.2	1218.7	1241.1	1263.6	1286.0	1308.5	1330.9	1340.6	1350.2
42.5°	1157.3	1181.8	1206.2	1230.7	1255.1	1279.6	1304.0	1328.5	1352.9	1363.7	1374.5
45°	1161.7	1188.5	1215.2	1242.0	1268.8	1295.6	1322.3	1349.1	1375.9	1387.8	1399.7
47.5°	1165.3	1194.8	1224.2	1253.7	1283.1	1312.6	1342.0	1371.5	1400.9	1413.9	1426.9
50°	1168.0	1200.1	1232.2	1264.3	1296.5	1328.6	1360.7	1392.8	1424.9	1439.2	1453.6
52.5°	1169.9	1204.9	1239.9	1274.9	1309.9	1344.9	1379.9	1414.9	1449.9	1465.5	1481.0
55°	1171.7	1209.5	1247.2	1285.0	1322.8	1360.6	1398.3	1436.1	1473.9	1490.5	1507.0
57.5°	1172.3	1212.8	1253.2	1293.7	1334.1	1374.6	1415.0	1455.5	1495.9	1512.9	1529.9
60°	1173.6	1216.2	1258.9	1301.6	1344.2	1386.9	1429.6	1472.2	1514.9	1532.7	1550.5
62.5°	1172.5	1217.0	1261.6	1306.1	1350.7	1395.2	1439.8	1484.3	1528.9	1546.8	1564.7
65°	1168.9	1214.9	1260.9	1306.9	1352.9	1398.9	1444.9	1490.9	1536.9	1555.0	1573.1
67.5°	1161.8	1208.7	1255.6	1302.5	1349.3	1396.2	1443.1	1490.0	1536.9	1554.8	1572.7
70°	1147.2	1194.6	1241.9	1289.2	1336.6	1383.9	1431.2	1478.6	1525.9	1543.7	1561.5
72.5°	1124.0	1171.0	1218.0	1265.0	1311.9	1358.9	1405.9	1452.9	1499.9	1517.3	1534.8
75°	1092.2	1138.4	1184.6	1230.8	1277.1	1323.3	1369.5	1415.7	1461.9	1478.2	1494.6
77.5°	1051.9	1096.8	1141.6	1186.5	1231.4	1276.3	1321.1	1366.0	1410.9	1426.9	1442.9
80°	1005.5	1049.1	1092.6	1136.2	1179.7	1223.3	1266.8	1310.4	1353.9	1369.5	1385.0
82.5°	958.0	1000.0	1042.0	1084.0	1125.9	1167.9	1209.9	1251.9	1293.9	1309.2	1324.6
85°	911.4	951.9	992.3	1032.7	1073.2	1113.6	1154.0	1194.5	1234.9	1249.7	1264.5
87.5°	868.9	907.8	946.6	985.5	1024.4	1063.3	1102.1	1141.0	1179.9	1194.5	1209.0
90°	832.4	869.9	907.3	944.7	982.2	1019.6	1057.0	1094.5	1131.9	1145.9	1159.9
92.5°	801.2	837.4	873.6	909.8	946.1	982.3	1018.5	1054.7	1090.9	1104.1	1117.3
95°	772.8	807.6	842.3	877.1	911.9	946.7	981.4	1016.2	1051.0	1063.9	1076.8
97.5°	743.9	777.8	811.7	845.6	879.4	913.3	947.2	981.1	1015.0	1027.3	1039.6
100°	715.1	748.2	781.3	814.4	847.6	880.7	913.8	946.9	980.0	991.9	1003.8
102.5°	688.1	720.2	752.3	784.4	816.6	848.7	880.8	912.9	945.0	956.7	968.3
105°	658.3	689.7	721.0	752.3	783.7	815.0	846.3	877.7	909.0	920.4	931.9
107.5°	628.6	659.1	689.7	720.2	750.8	781.3	811.9	842.4	873.0	884.1	895.2
110°	597.7	627.3	657.0	686.7	716.3	746.0	775.7	805.3	835.0	845.8	856.6





TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	566.7	595.3	624.0	652.7	681.3	710.0	738.7	767.3	796.0	806.4	816.9
115°	534.7	562.3	590.0	617.7	645.3	673.0	700.7	728.3	756.0	766.1	776.2
117.5°	502.6	529.1	555.7	582.2	608.8	635.3	661.9	688.4	715.0	724.9	734.8
120°	469.7	495.3	521.0	546.7	572.3	598.0	623.7	649.3	675.0	684.6	694.1
122.5°	435.6	460.1	484.7	509.2	533.8	558.3	582.9	607.4	632.0	641.2	650.4
125°	400.7	424.3	448.0	471.7	495.3	519.0	542.7	566.3	590.0	598.8	607.6
127.5°	363.8	386.6	409.3	432.1	454.9	477.7	500.4	523.2	546.0	554.4	562.9
130°	322.4	344.9	367.3	389.8	412.2	434.7	457.1	479.6	502.0	510.1	518.2
132.5°	281.8	303.6	325.3	347.1	368.9	390.7	412.4	434.2	456.0	463.7	471.3
135°	242.2	263.4	284.7	305.9	327.1	348.3	369.6	390.8	412.0	419.0	426.0
137.5°	205.9	225.8	245.7	265.6	285.4	305.3	325.2	345.1	365.0	372.0	379.0
140°	172.8	190.6	208.3	226.1	243.9	261.7	279.4	297.2	315.0	322.6	330.1
142.5°	141.6	157.1	172.7	188.2	203.8	219.3	234.9	250.4	266.0	273.9	281.8
145°	110.4	123.9	137.3	150.8	164.2	177.7	191.1	204.6	218.0	226.2	234.4
147.5°	84.4	95.9	107.3	118.8	130.2	141.7	153.1	164.6	176.0	184.1	192.2
150°	60.6	70.1	79.7	89.2	98.8	108.3	117.9	127.4	137.0	144.4	151.9
152.5°	40.7	48.3	56.0	63.7	71.3	79.0	86.7	94.3	102.0	108.9	115.8
155°	23.9	29.8	35.7	41.6	47.4	53.3	59.2	65.1	71.0	76.9	82.8
157.5°	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.9	53.8
160°	4.3	6.7	9.0	11.3	13.7	16.0	18.3	20.7	23.0	26.4	29.9
162.5°	0.9	1.8	2.7	3.6	4.4	5.3	6.2	7.1	8.0	10.0	12.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
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: P201367

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

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1071.7	1070.6	1069.4	1068.3	1067.2	1066.1	1065.0	1065.9	1066.8	1067.7	1068.6
5°	1062.0	1061.7	1061.3	1061.0	1060.7	1060.3	1060.0	1060.1	1060.2	1060.3	1060.4
7.5°	1057.7	1057.6	1057.4	1057.3	1057.2	1057.1	1057.0	1056.8	1056.6	1056.3	1056.1
10°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1059.2	1058.4	1057.7	1056.9
12.5°	1072.0	1073.0	1074.0	1075.0	1076.0	1077.0	1078.0	1076.2	1074.4	1072.7	1070.9
15°	1097.9	1100.2	1102.6	1104.9	1107.2	1109.6	1111.9	1109.1	1106.3	1103.6	1100.8
17.5°	1128.2	1131.0	1133.8	1136.6	1139.3	1142.1	1144.9	1141.8	1138.7	1135.6	1132.5
20°	1156.2	1159.7	1163.1	1166.6	1170.0	1173.5	1176.9	1173.0	1169.1	1165.2	1161.3
22.5°	1183.9	1187.9	1191.9	1195.9	1199.9	1203.9	1207.9	1203.1	1198.3	1193.6	1188.8
25°	1211.6	1215.8	1220.0	1224.2	1228.5	1232.7	1236.9	1231.7	1226.5	1221.2	1216.0
27.5°	1235.6	1240.8	1246.0	1251.2	1256.5	1261.7	1266.9	1261.1	1255.3	1249.6	1243.8
30°	1261.6	1267.5	1273.3	1279.2	1285.1	1291.0	1296.9	1290.3	1283.8	1277.2	1270.7
32.5°	1286.2	1293.0	1299.8	1306.6	1313.3	1320.1	1326.9	1319.6	1312.2	1304.9	1297.6
35°	1310.9	1318.6	1326.2	1333.9	1341.6	1349.2	1356.9	1348.9	1340.9	1332.9	1324.9
37.5°	1334.9	1343.6	1352.2	1360.9	1369.6	1378.2	1386.9	1378.1	1369.3	1360.6	1351.8
40°	1359.9	1369.6	1379.2	1388.9	1398.6	1408.2	1417.9	1408.2	1398.6	1388.9	1379.2
42.5°	1385.2	1396.0	1406.8	1417.6	1428.3	1439.1	1449.9	1439.6	1429.2	1418.9	1408.6
45°	1411.6	1423.5	1435.3	1447.2	1459.1	1471.0	1482.9	1471.5	1460.0	1448.6	1437.1
47.5°	1439.9	1452.9	1465.9	1478.9	1491.9	1504.9	1517.9	1505.5	1493.0	1480.6	1468.1
50°	1467.9	1482.2	1496.6	1510.9	1525.2	1539.6	1553.9	1540.5	1527.0	1513.6	1500.1
52.5°	1496.6	1512.1	1527.7	1543.2	1558.8	1574.3	1589.9	1575.3	1560.8	1546.2	1531.7
55°	1523.6	1540.1	1556.7	1573.2	1589.8	1606.3	1622.9	1607.6	1592.2	1576.9	1561.6
57.5°	1546.9	1563.9	1580.9	1597.9	1614.9	1631.9	1648.9	1633.3	1617.8	1602.2	1586.7
60°	1568.2	1586.0	1603.8	1621.6	1639.3	1657.1	1674.9	1658.8	1642.7	1626.6	1610.5
62.5°	1582.6	1600.5	1618.3	1636.2	1654.1	1672.0	1689.9	1673.8	1657.7	1641.6	1625.5
65°	1591.2	1609.3	1627.5	1645.6	1663.7	1681.8	1699.9	1683.7	1667.5	1651.2	1635.0
67.5°	1590.6	1608.5	1626.3	1644.2	1662.1	1680.0	1697.9	1681.9	1665.9	1649.9	1633.9
70°	1579.2	1597.0	1614.8	1632.6	1650.3	1668.1	1685.9	1669.9	1653.9	1637.9	1621.9
72.5°	1552.2	1569.7	1587.1	1604.6	1622.0	1639.5	1656.9	1641.2	1625.6	1609.9	1594.2
75°	1510.9	1527.2	1543.6	1559.9	1576.2	1592.6	1608.9	1594.2	1579.6	1564.9	1550.2
77.5°	1458.9	1474.9	1490.9	1506.9	1522.9	1538.9	1554.9	1540.0	1525.1	1510.2	1495.3
80°	1400.6	1416.1	1431.7	1447.2	1462.8	1478.3	1493.9	1479.3	1464.8	1450.2	1435.7
82.5°	1339.9	1355.2	1370.6	1385.9	1401.2	1416.6	1431.9	1417.3	1402.8	1388.2	1373.7
85°	1279.2	1294.0	1308.8	1323.6	1338.3	1353.1	1367.9	1353.8	1339.7	1325.6	1311.5
87.5°	1223.6	1238.1	1252.7	1267.2	1281.8	1296.3	1310.9	1297.5	1284.0	1270.6	1257.1
90°	1173.9	1187.9	1201.9	1215.9	1229.9	1243.9	1257.9	1244.9	1231.9	1218.9	1205.9
92.5°	1130.6	1143.8	1157.0	1170.2	1183.5	1196.7	1209.9	1197.5	1185.0	1172.6	1160.1
95°	1089.6	1102.5	1115.4	1128.3	1141.1	1154.0	1166.9	1154.9	1142.9	1130.9	1118.9
97.5°	1052.0	1064.3	1076.6	1088.9	1101.3	1113.6	1125.9	1114.4	1102.8	1091.3	1079.7
100°	1015.6	1027.5	1039.4	1051.3	1063.1	1075.0	1086.9	1075.6	1064.3	1052.9	1041.6
102.5°	980.0	991.7	1003.3	1015.0	1026.7	1038.3	1050.0	1038.9	1027.8	1016.7	1005.6
105°	943.3	954.8	966.2	977.7	989.1	1000.6	1012.0	1001.1	990.2	979.3	968.4
107.5°	906.3	917.4	928.6	939.7	950.8	961.9	973.0	962.3	951.7	941.0	930.3
110°	867.3	878.1	888.9	899.7	910.4	921.2	932.0	921.6	911.1	900.7	890.2



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	827.3	837.8	848.2	858.7	869.1	879.6	890.0	879.8	869.6	859.3	849.1
115°	786.3	796.4	806.6	816.7	826.8	836.9	847.0	837.1	827.2	817.3	807.4
117.5°	744.7	754.6	764.4	774.3	784.2	794.1	804.0	794.6	785.1	775.7	766.2
120°	703.7	713.2	722.8	732.3	741.9	751.4	761.0	751.9	742.8	733.7	724.6
122.5°	659.7	668.9	678.1	687.3	696.6	705.8	715.0	706.3	697.7	689.0	680.3
125°	616.3	625.1	633.9	642.7	651.4	660.2	669.0	660.8	652.6	644.3	636.1
127.5°	571.3	579.8	588.2	596.7	605.1	613.6	622.0	614.2	606.4	598.7	590.9
130°	526.3	534.4	542.6	550.7	558.8	566.9	575.0	567.6	560.1	552.7	545.2
132.5°	479.0	486.7	494.3	502.0	509.7	517.3	525.0	518.0	511.0	504.0	497.0
135°	433.0	440.0	447.0	454.0	461.0	468.0	475.0	468.9	462.8	456.7	450.6
137.5°	386.0	393.0	400.0	407.0	414.0	421.0	428.0	422.3	416.7	411.0	405.3
140°	337.7	345.2	352.8	360.3	367.9	375.4	383.0	377.8	372.6	367.3	362.1
142.5°	289.7	297.6	305.4	313.3	321.2	329.1	337.0	332.2	327.4	322.7	317.9
145°	242.7	250.9	259.1	267.3	275.6	283.8	292.0	287.8	283.6	279.3	275.1
147.5°	200.3	208.4	216.6	224.7	232.8	240.9	249.0	245.0	241.0	237.0	233.0
150°	159.3	166.8	174.2	181.7	189.1	196.6	204.0	200.8	197.6	194.3	191.1
152.5°	122.7	129.6	136.4	143.3	150.2	157.1	164.0	161.1	158.2	155.3	152.4
155°	88.7	94.6	100.4	106.3	112.2	118.1	124.0	121.7	119.3	117.0	114.7
157.5°	58.7	63.6	68.4	73.3	78.2	83.1	88.0	86.1	84.2	82.3	80.4
160°	33.3	36.8	40.2	43.7	47.1	50.6	54.0	52.7	51.3	50.0	48.7
162.5°	14.0	16.0	18.0	20.0	22.0	24.0	26.0	25.3	24.7	24.0	23.3
165°	3.0	4.0	5.0	6.0	7.0	8.0	9.0	8.9	8.8	8.7	8.6
167.5°	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
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: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1069.4	1070.3	1071.2	1072.1	1073.0	1074.3	1075.6	1077.0	1078.3	1079.6	1080.9
5°	1060.6	1060.7	1060.8	1060.9	1061.0	1062.3	1063.7	1065.0	1066.3	1067.7	1069.0
7.5°	1055.9	1055.7	1055.4	1055.2	1055.0	1055.9	1056.8	1057.7	1058.6	1059.4	1060.3
10°	1056.1	1055.3	1054.6	1053.8	1053.0	1053.3	1053.7	1054.0	1054.3	1054.7	1055.0
12.5°	1069.1	1067.3	1065.6	1063.8	1062.0	1060.9	1059.8	1058.7	1057.6	1056.4	1055.3
15°	1098.0	1095.2	1092.5	1089.7	1086.9	1082.9	1078.9	1074.9	1070.9	1067.0	1063.0
17.5°	1129.3	1126.2	1123.1	1120.0	1116.9	1110.1	1103.4	1096.6	1089.8	1083.1	1076.3
20°	1157.5	1153.6	1149.7	1145.8	1141.9	1133.8	1125.7	1117.6	1109.5	1101.4	1093.3
22.5°	1184.0	1179.2	1174.5	1169.7	1164.9	1155.6	1146.3	1136.9	1127.6	1118.3	1109.0
25°	1210.8	1205.6	1200.3	1195.1	1189.9	1179.0	1168.1	1157.2	1146.3	1135.5	1124.6
27.5°	1238.0	1232.2	1226.5	1220.7	1214.9	1202.3	1189.8	1177.2	1164.7	1152.1	1139.6
30°	1264.1	1257.6	1251.0	1244.5	1237.9	1223.7	1209.5	1195.2	1181.0	1166.8	1152.6
32.5°	1290.2	1282.9	1275.6	1268.2	1260.9	1244.8	1228.7	1212.6	1196.5	1180.3	1164.2
35°	1316.9	1308.9	1300.9	1292.9	1284.9	1266.9	1248.9	1230.9	1212.9	1194.9	1176.9
37.5°	1343.0	1334.2	1325.5	1316.7	1307.9	1288.1	1268.3	1248.6	1228.8	1209.0	1189.2
40°	1369.6	1359.9	1350.2	1340.6	1330.9	1309.2	1287.6	1265.9	1244.2	1222.6	1200.9
42.5°	1398.2	1387.9	1377.6	1367.2	1356.9	1332.9	1308.9	1284.9	1260.9	1236.9	1212.9
45°	1425.7	1414.2	1402.8	1391.3	1379.9	1353.8	1327.7	1301.6	1275.5	1249.3	1223.2
47.5°	1455.7	1443.2	1430.8	1418.3	1405.9	1377.1	1348.3	1319.6	1290.8	1262.0	1233.2
50°	1486.7	1473.2	1459.8	1446.3	1432.9	1401.2	1369.6	1337.9	1306.2	1274.6	1242.9
52.5°	1517.1	1502.6	1488.0	1473.5	1458.9	1424.5	1390.0	1355.6	1321.1	1286.7	1252.2
55°	1546.2	1530.9	1515.6	1500.2	1484.9	1447.6	1410.2	1372.9	1335.6	1298.2	1260.9
57.5°	1571.1	1555.6	1540.0	1524.5	1508.9	1468.9	1428.9	1388.9	1348.9	1308.9	1268.9
60°	1594.3	1578.2	1562.1	1546.0	1529.9	1487.6	1445.2	1402.9	1360.6	1318.2	1275.9
62.5°	1609.3	1593.2	1577.1	1561.0	1544.9	1500.7	1456.5	1412.2	1368.0	1323.8	1279.6
65°	1618.8	1602.6	1586.3	1570.1	1553.9	1508.1	1462.3	1416.6	1370.8	1325.0	1279.2
67.5°	1617.9	1601.9	1585.9	1569.9	1553.9	1507.2	1460.6	1413.9	1367.2	1320.6	1273.9
70°	1605.9	1589.9	1573.9	1557.9	1541.9	1494.9	1447.9	1400.9	1353.9	1306.9	1259.9
72.5°	1578.6	1562.9	1547.2	1531.6	1515.9	1469.1	1422.3	1375.6	1328.8	1282.0	1235.2
75°	1535.6	1520.9	1506.2	1491.6	1476.9	1430.9	1384.9	1338.9	1292.9	1247.0	1201.0
77.5°	1480.5	1465.6	1450.7	1435.8	1420.9	1376.8	1332.7	1288.6	1244.5	1200.4	1156.3
80°	1421.1	1406.6	1392.0	1377.5	1362.9	1320.0	1277.1	1234.3	1191.4	1148.5	1105.6
82.5°	1359.1	1344.6	1330.0	1315.5	1300.9	1259.6	1218.3	1176.9	1135.6	1094.3	1053.0
85°	1297.3	1283.2	1269.1	1255.0	1240.9	1201.0	1161.1	1121.3	1081.4	1041.5	1001.6
87.5°	1243.7	1230.2	1216.8	1203.3	1189.9	1151.0	1112.1	1073.3	1034.4	995.5	956.6
90°	1192.9	1179.9	1166.9	1153.9	1140.9	1103.7	1066.5	1029.3	992.1	954.8	917.6
92.5°	1147.7	1135.2	1122.8	1110.3	1097.9	1062.2	1026.6	990.9	955.3	919.6	884.0
95°	1107.0	1095.0	1083.0	1071.0	1059.0	1024.6	990.1	955.7	921.2	886.8	852.3
97.5°	1068.2	1056.6	1045.1	1033.5	1022.0	988.6	955.1	921.7	888.2	854.8	821.3
100°	1030.3	1019.0	1007.6	996.3	985.0	952.4	919.9	887.3	854.8	822.2	789.7
102.5°	994.4	983.3	972.2	961.1	950.0	918.1	886.2	854.3	822.4	790.6	758.7
105°	957.6	946.7	935.8	924.9	914.0	883.0	852.0	821.0	790.0	759.0	728.0
107.5°	919.7	909.0	898.3	887.7	877.0	847.0	817.0	787.0	757.0	727.0	697.0
110°	879.8	869.3	858.9	848.4	838.0	809.2	780.4	751.7	722.9	694.1	665.3



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLELD4-10-ASYMW-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°	838.9	828.7	818.4	808.2	798.0	770.3	742.7	715.0	687.3	659.7	632.0
115°	797.6	787.7	777.8	767.9	758.0	731.3	704.7	678.0	651.3	624.7	598.0
117.5°	756.8	747.3	737.9	728.4	719.0	693.3	667.7	642.0	616.3	590.7	565.0
120°	715.4	706.3	697.2	688.1	679.0	654.2	629.4	604.7	579.9	555.1	530.3
122.5°	671.7	663.0	654.3	645.7	637.0	613.1	589.2	565.3	541.4	517.6	493.7
125°	627.9	619.7	611.4	603.2	595.0	572.0	549.0	526.0	503.0	480.0	457.0
127.5°	583.1	575.3	567.6	559.8	552.0	530.1	508.2	486.3	464.4	442.6	420.7
130°	537.8	530.3	522.9	515.4	508.0	487.4	466.9	446.3	425.8	405.2	384.7
132.5°	490.0	483.0	476.0	469.0	462.0	443.0	424.0	405.0	386.0	367.0	348.0
135°	444.4	438.3	432.2	426.1	420.0	402.2	384.4	366.7	348.9	331.1	313.3
137.5°	399.7	394.0	388.3	382.7	377.0	360.2	343.4	326.7	309.9	293.1	276.3
140°	356.9	351.7	346.4	341.2	336.0	320.3	304.7	289.0	273.3	257.7	242.0
142.5°	313.1	308.3	303.6	298.8	294.0	279.8	265.6	251.3	237.1	222.9	208.7
145°	270.9	266.7	262.4	258.2	254.0	241.1	228.2	215.3	202.4	189.6	176.7
147.5°	229.0	225.0	221.0	217.0	213.0	201.7	190.3	179.0	167.7	156.3	145.0
150°	187.9	184.7	181.4	178.2	175.0	165.0	155.0	145.0	135.0	125.0	115.0
152.5°	149.6	146.7	143.8	140.9	138.0	129.4	120.9	112.3	103.8	95.2	86.7
155°	112.3	110.0	107.7	105.3	103.0	96.0	89.0	82.0	75.0	68.0	61.0
157.5°	78.6	76.7	74.8	72.9	71.0	65.6	60.1	54.7	49.2	43.8	38.3
160°	47.3	46.0	44.7	43.3	42.0	38.7	35.3	32.0	28.7	25.3	22.0
162.5°	22.7	22.0	21.3	20.7	20.0	18.4	16.9	15.3	13.8	12.2	10.7
165°	8.4	8.3	8.2	8.1	8.0	7.4	6.9	6.3	5.8	5.2	4.7
167.5°	1.6	1.7	1.8	1.9	2.0	1.8	1.6	1.3	1.1	0.9	0.7
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: P201367

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

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1082.3	1083.6	1084.9	1085.0	1085.1	1085.2	1085.3	1085.5	1085.6	1085.7	1085.8
5°	1070.3	1071.7	1073.0	1073.3	1073.7	1074.0	1074.3	1074.7	1075.0	1075.3	1075.7
7.5°	1061.2	1062.1	1063.0	1063.1	1063.2	1063.3	1063.4	1063.6	1063.7	1063.8	1063.9
10°	1055.3	1055.7	1056.0	1055.2	1054.4	1053.7	1052.9	1052.1	1051.3	1050.6	1049.8
12.5°	1054.2	1053.1	1052.0	1049.9	1047.8	1045.7	1043.6	1041.4	1039.3	1037.2	1035.1
15°	1059.0	1055.0	1051.0	1047.2	1043.4	1039.7	1035.9	1032.1	1028.3	1024.6	1020.8
17.5°	1069.5	1062.8	1056.0	1049.7	1043.3	1037.0	1030.7	1024.3	1018.0	1011.7	1005.3
20°	1085.2	1077.1	1069.0	1059.1	1049.2	1039.3	1029.4	1019.6	1009.7	999.8	989.9
22.5°	1099.6	1090.3	1081.0	1067.8	1054.6	1041.3	1028.1	1014.9	1001.7	988.4	975.2
25°	1113.7	1102.8	1091.9	1075.4	1058.8	1042.3	1025.7	1009.2	992.6	976.1	959.5
27.5°	1127.0	1114.5	1101.9	1082.2	1062.6	1042.9	1023.3	1003.6	984.0	964.3	944.7
30°	1138.3	1124.1	1109.9	1087.6	1065.3	1042.9	1020.6	998.3	976.0	953.6	931.3
32.5°	1148.1	1132.0	1115.9	1091.5	1067.0	1042.6	1018.2	993.7	969.3	944.9	920.4
35°	1158.9	1140.9	1122.9	1096.1	1069.4	1042.6	1015.8	989.1	962.3	935.5	908.8
37.5°	1169.5	1149.7	1129.9	1100.8	1071.7	1042.6	1013.5	984.4	955.3	926.2	897.1
40°	1179.2	1157.6	1135.9	1104.6	1073.3	1041.9	1010.6	979.3	948.0	916.6	885.3
42.5°	1188.9	1164.9	1140.9	1107.2	1073.6	1039.9	1006.3	972.6	939.0	905.3	871.7
45°	1197.1	1171.0	1144.9	1108.9	1072.9	1036.9	1000.9	965.0	929.0	893.0	857.0
47.5°	1204.5	1175.7	1146.9	1108.8	1070.7	1032.6	994.5	956.4	918.3	880.2	842.1
50°	1211.2	1179.6	1147.9	1107.6	1067.3	1026.9	986.6	946.3	906.0	865.6	825.3
52.5°	1217.8	1183.3	1148.9	1106.1	1063.4	1020.6	977.8	935.1	892.3	849.5	806.8
55°	1223.6	1186.2	1148.9	1103.8	1058.7	1013.6	968.5	923.4	878.3	833.2	788.1
57.5°	1228.9	1188.9	1148.9	1101.5	1054.0	1006.6	959.2	911.7	864.3	816.9	769.4
60°	1233.6	1191.2	1148.9	1099.0	1049.1	999.3	949.4	899.5	849.6	799.8	749.9
62.5°	1235.3	1191.1	1146.9	1094.7	1042.5	990.3	938.1	885.8	833.6	781.4	729.2
65°	1233.5	1187.7	1141.9	1087.5	1033.0	978.6	924.2	869.7	815.3	760.9	706.4
67.5°	1227.2	1180.6	1133.9	1077.4	1020.8	964.3	907.7	851.2	794.6	738.1	681.5
70°	1212.9	1165.9	1118.9	1060.9	1002.9	944.9	886.9	829.0	771.0	713.0	655.0
72.5°	1188.5	1141.7	1094.9	1036.6	978.3	919.9	861.6	803.3	745.0	686.6	628.3
75°	1155.0	1109.0	1063.0	1004.3	945.7	887.0	828.3	769.7	711.0	652.3	593.7
77.5°	1112.2	1068.1	1024.0	966.3	908.7	851.0	793.3	735.7	678.0	620.3	562.7
80°	1062.8	1019.9	977.0	921.0	865.0	809.0	753.0	697.0	641.0	585.0	529.0
82.5°	1011.6	970.3	929.0	874.9	820.8	766.7	712.6	658.4	604.3	550.2	496.1
85°	961.8	921.9	882.0	829.8	777.6	725.3	673.1	620.9	568.7	516.4	464.2
87.5°	917.8	878.9	840.0	789.4	738.9	688.3	637.8	587.2	536.7	486.1	435.6
90°	880.4	843.2	806.0	757.0	708.0	659.0	610.0	561.0	512.0	463.0	414.0
92.5°	848.3	812.7	777.0	729.4	681.9	634.3	586.8	539.2	491.7	444.1	396.6
95°	817.9	783.4	749.0	702.7	656.3	610.0	563.7	517.3	471.0	424.7	378.3
97.5°	787.9	754.4	721.0	675.9	630.8	585.7	540.6	495.4	450.3	405.2	360.1
100°	757.1	724.6	692.0	648.1	604.2	560.3	516.4	472.6	428.7	384.8	340.9
102.5°	726.8	694.9	663.0	620.3	577.7	535.0	492.3	449.7	407.0	364.3	321.7
105°	697.0	666.0	635.0	593.2	551.4	509.7	467.9	426.1	384.3	342.6	300.8
107.5°	667.0	637.0	607.0	566.3	525.7	485.0	444.3	403.7	363.0	322.3	281.7
110°	636.6	607.8	579.0	539.2	499.4	459.7	419.9	380.1	340.3	300.6	260.8



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	604.3	576.7	549.0	510.4	471.9	433.3	394.8	356.2	317.7	279.1	240.6
115°	571.3	544.7	518.0	480.9	443.8	406.7	369.6	332.4	295.3	258.2	221.1
117.5°	539.3	513.7	488.0	452.2	416.4	380.7	344.9	309.1	273.3	237.6	201.8
120°	505.6	480.8	456.0	421.9	387.8	353.7	319.6	285.4	251.3	217.2	183.1
122.5°	469.8	445.9	422.0	389.6	357.1	324.7	292.2	259.8	227.3	194.9	162.4
125°	434.0	411.0	388.0	357.6	327.1	296.7	266.2	235.8	205.3	174.9	144.4
127.5°	398.8	376.9	355.0	326.4	297.9	269.3	240.8	212.2	183.7	155.1	126.6
130°	364.1	343.6	323.0	296.2	269.4	242.7	215.9	189.1	162.3	135.6	108.8
132.5°	329.0	310.0	291.0	266.1	241.2	216.3	191.4	166.6	141.7	116.8	91.9
135°	295.6	277.8	260.0	237.1	214.2	191.3	168.4	145.6	122.7	99.8	76.9
137.5°	259.6	242.8	226.0	205.4	184.9	164.3	143.8	123.2	102.7	82.1	61.6
140°	226.3	210.7	195.0	176.6	158.1	139.7	121.2	102.8	84.3	65.9	47.4
142.5°	194.4	180.2	166.0	149.8	133.6	117.3	101.1	84.9	68.7	52.4	36.2
145°	163.8	150.9	138.0	124.2	110.4	96.7	82.9	69.1	55.3	41.6	27.8
147.5°	133.7	122.3	111.0	99.8	88.6	77.3	66.1	54.9	43.7	32.4	21.2
150°	105.0	95.0	85.0	76.4	67.9	59.3	50.8	42.2	33.7	25.1	16.6
152.5°	78.1	69.6	61.0	54.8	48.6	42.3	36.1	29.9	23.7	17.4	11.2
155°	54.0	47.0	40.0	35.9	31.8	27.7	23.6	19.4	15.3	11.2	7.1
157.5°	32.9	27.4	22.0	19.8	17.6	15.3	13.1	10.9	8.7	6.4	4.2
160°	18.7	15.3	12.0	10.8	9.6	8.3	7.1	5.9	4.7	3.4	2.2
162.5°	9.1	7.6	6.0	5.4	4.9	4.3	3.8	3.2	2.7	2.1	1.6
165°	4.1	3.6	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2
167.5°	0.4	0.2	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
170°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
177.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
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: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1085.9	1088.6	1091.2	1093.9	1096.6	1099.2	1101.9	1104.6	1107.2	1109.9	1109.6
5°	1076.0	1079.2	1082.4	1085.6	1088.8	1092.1	1095.3	1098.5	1101.7	1104.9	1105.5
7.5°	1064.0	1067.7	1071.3	1075.0	1078.6	1082.3	1085.9	1089.6	1093.2	1096.9	1098.3
10°	1049.0	1052.9	1056.8	1060.6	1064.5	1068.4	1072.3	1076.1	1080.0	1083.9	1086.5
12.5°	1033.0	1037.1	1041.2	1045.3	1049.4	1053.6	1057.7	1061.8	1065.9	1070.0	1073.5
15°	1017.0	1020.8	1024.6	1028.3	1032.1	1035.9	1039.7	1043.4	1047.2	1051.0	1055.8
17.5°	999.0	1002.6	1006.1	1009.7	1013.2	1016.8	1020.3	1023.9	1027.4	1031.0	1037.0
20°	980.0	982.8	985.6	988.3	991.1	993.9	996.7	999.4	1002.2	1005.0	1012.7
22.5°	962.0	963.8	965.6	967.3	969.1	970.9	972.7	974.4	976.2	978.0	987.0
25°	943.0	943.6	944.1	944.7	945.2	945.8	946.3	946.9	947.4	948.0	958.7
27.5°	925.0	924.1	923.2	922.3	921.4	920.6	919.7	918.8	917.9	917.0	929.4
30°	909.0	906.1	903.2	900.3	897.4	894.6	891.7	888.8	885.9	883.0	897.4
32.5°	896.0	890.4	884.9	879.3	873.8	868.2	862.7	857.1	851.6	846.0	863.0
35°	882.0	873.8	865.6	857.3	849.1	840.9	832.7	824.4	816.2	808.0	827.6
37.5°	868.0	857.0	846.0	835.0	824.0	813.0	802.0	791.0	780.0	769.0	791.4
40°	854.0	839.9	825.8	811.7	797.6	783.4	769.3	755.2	741.1	727.0	752.6
42.5°	838.0	821.1	804.2	787.3	770.4	753.6	736.7	719.8	702.9	686.0	714.6
45°	821.0	801.2	781.4	761.7	741.9	722.1	702.3	682.6	662.8	643.0	674.7
47.5°	804.0	781.3	758.7	736.0	713.3	690.7	668.0	645.3	622.7	600.0	634.7
50°	785.0	759.7	734.3	709.0	683.7	658.3	633.0	607.7	582.3	557.0	594.4
52.5°	764.0	736.1	708.2	680.3	652.4	624.6	596.7	568.8	540.9	513.0	553.3
55°	743.0	712.6	682.1	651.7	621.2	590.8	560.3	529.9	499.4	469.0	512.1
57.5°	722.0	689.1	656.2	623.3	590.4	557.6	524.7	491.8	458.9	426.0	471.6
60°	700.0	664.7	629.3	594.0	558.7	523.3	488.0	452.7	417.3	382.0	430.0
62.5°	677.0	639.4	601.9	564.3	526.8	489.2	451.7	414.1	376.6	339.0	389.2
65°	652.0	612.4	572.9	533.3	493.8	454.2	414.7	375.1	335.6	296.0	348.1
67.5°	625.0	583.9	542.8	501.7	460.6	419.4	378.3	337.2	296.1	255.0	308.9
70°	597.0	554.2	511.4	468.7	425.9	383.1	340.3	297.6	254.8	212.0	267.6
72.5°	570.0	526.2	482.4	438.7	394.9	351.1	307.3	263.6	219.8	176.0	232.3
75°	535.0	491.0	447.0	403.0	359.0	315.0	271.0	227.0	183.0	139.0	196.1
77.5°	505.0	460.6	416.1	371.7	327.2	282.8	238.3	193.9	149.4	105.0	162.4
80°	473.0	428.6	384.1	339.7	295.2	250.8	206.3	161.9	117.4	73.0	130.7
82.5°	442.0	398.0	354.0	310.0	266.0	222.0	178.0	134.0	90.0	46.0	103.0
85°	412.0	368.9	325.8	282.7	239.6	196.4	153.3	110.2	67.1	24.0	80.1
87.5°	385.0	343.1	301.2	259.3	217.4	175.6	133.7	91.8	49.9	8.0	62.7
90°	365.0	324.6	284.1	243.7	203.2	162.8	122.3	81.9	41.4	1.0	53.7
92.5°	349.0	310.3	271.7	233.0	194.3	155.7	117.0	78.3	39.7	1.0	51.7
95°	332.0	295.2	258.4	221.7	184.9	148.1	111.3	74.6	37.8	1.0	49.7
97.5°	315.0	280.1	245.2	210.3	175.4	140.6	105.7	70.8	35.9	1.0	47.6
100°	297.0	264.1	231.2	198.3	165.4	132.6	99.7	66.8	33.9	1.0	45.4
102.5°	279.0	248.1	217.2	186.3	155.4	124.6	93.7	62.8	31.9	1.0	43.2
105°	259.0	230.3	201.7	173.0	144.3	115.7	87.0	58.3	29.7	1.0	41.0
107.5°	241.0	214.3	187.7	161.0	134.3	107.7	81.0	54.3	27.7	1.0	38.7
110°	221.0	196.6	172.1	147.7	123.2	98.8	74.3	49.9	25.4	1.0	36.3





TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	202.0	179.7	157.3	135.0	112.7	90.3	68.0	45.7	23.3	1.0	33.9
115°	184.0	163.7	143.3	123.0	102.7	82.3	62.0	41.7	21.3	1.0	31.2
117.5°	166.0	147.7	129.3	111.0	92.7	74.3	56.0	37.7	19.3	1.0	28.7
120°	149.0	132.6	116.1	99.7	83.2	66.8	50.3	33.9	17.4	1.0	25.6
122.5°	130.0	115.7	101.3	87.0	72.7	58.3	44.0	29.7	15.3	1.0	23.0
125°	114.0	101.4	88.9	76.3	63.8	51.2	38.7	26.1	13.6	1.0	20.2
127.5°	98.0	87.2	76.4	65.7	54.9	44.1	33.3	22.6	11.8	1.0	17.2
130°	82.0	73.0	64.0	55.0	46.0	37.0	28.0	19.0	10.0	1.0	14.3
132.5°	67.0	59.8	52.6	45.3	38.1	30.9	23.7	16.4	9.2	2.0	12.7
135°	54.0	48.2	42.4	36.7	30.9	25.1	19.3	13.6	7.8	2.0	10.3
137.5°	41.0	36.7	32.3	28.0	23.7	19.3	15.0	10.7	6.3	2.0	8.1
140°	29.0	26.0	23.0	20.0	17.0	14.0	11.0	8.0	5.0	2.0	6.3
142.5°	20.0	18.0	16.0	14.0	12.0	10.0	8.0	6.0	4.0	2.0	5.1
145°	14.0	12.7	11.3	10.0	8.7	7.3	6.0	4.7	3.3	2.0	4.1
147.5°	10.0	9.1	8.2	7.3	6.4	5.6	4.7	3.8	2.9	2.0	3.4
150°	8.0	7.3	6.7	6.0	5.3	4.7	4.0	3.3	2.7	2.0	3.0
152.5°	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.7	2.3	2.0	2.7
155°	3.0	2.9	2.8	2.7	2.6	2.4	2.3	2.2	2.1	2.0	2.4
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2
160°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1
162.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.0
165°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.9
167.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
170°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
172.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
175°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
177.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
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: P201367

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

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1109.2	1108.9	1108.6	1108.2	1107.9	1107.6	1107.2	1106.9	1107.5	1108.0	1108.6
5°	1106.0	1106.6	1107.1	1107.7	1108.2	1108.8	1109.3	1109.9	1111.3	1112.8	1114.2
7.5°	1099.8	1101.2	1102.7	1104.1	1105.6	1107.0	1108.5	1109.9	1112.6	1115.2	1117.9
10°	1089.0	1091.6	1094.1	1096.7	1099.2	1101.8	1104.3	1106.9	1110.8	1114.7	1118.6
12.5°	1077.1	1080.6	1084.2	1087.7	1091.3	1094.8	1098.4	1101.9	1107.3	1112.8	1118.2
15°	1060.5	1065.3	1070.1	1074.8	1079.6	1084.4	1089.1	1093.9	1101.3	1108.8	1116.2
17.5°	1043.0	1049.0	1055.0	1060.9	1066.9	1072.9	1078.9	1084.9	1094.8	1104.7	1114.6
20°	1020.3	1028.0	1035.7	1043.3	1051.0	1058.7	1066.3	1074.0	1086.9	1099.8	1112.6
22.5°	996.0	1005.0	1014.0	1023.0	1032.0	1041.0	1050.0	1059.0	1075.8	1092.5	1109.3
25°	969.3	980.0	990.7	1001.3	1012.0	1022.7	1033.3	1044.0	1064.9	1085.8	1106.6
27.5°	941.9	954.3	966.8	979.2	991.7	1004.1	1016.6	1029.0	1053.8	1078.5	1103.3
30°	911.9	926.3	940.8	955.2	969.7	984.1	998.6	1013.0	1041.7	1070.3	1099.0
32.5°	880.0	897.0	914.0	931.0	948.0	965.0	982.0	999.0	1030.9	1062.8	1094.6
35°	847.1	866.7	886.2	905.8	925.3	944.9	964.4	984.0	1019.2	1054.4	1089.6
37.5°	813.9	836.3	858.8	881.2	903.7	926.1	948.6	971.0	1009.1	1047.2	1085.3
40°	778.1	803.7	829.2	854.8	880.3	905.9	931.4	957.0	998.0	1039.0	1080.0
42.5°	743.1	771.7	800.2	828.8	857.3	885.9	914.4	943.0	986.7	1030.3	1074.0
45°	706.3	738.0	769.7	801.3	833.0	864.7	896.3	928.0	974.3	1020.6	1067.0
47.5°	669.3	704.0	738.7	773.3	808.0	842.7	877.3	912.0	960.8	1009.5	1058.3
50°	631.9	669.3	706.8	744.2	781.7	819.1	856.6	894.0	945.2	996.4	1047.6
52.5°	593.7	634.0	674.3	714.7	755.0	795.3	835.7	876.0	929.4	982.9	1036.3
55°	555.2	598.3	641.4	684.6	727.7	770.8	813.9	857.0	912.5	968.1	1023.6
57.5°	517.1	562.7	608.2	653.8	699.3	744.9	790.4	836.0	893.8	951.5	1009.3
60°	478.0	526.0	574.0	622.0	670.0	718.0	766.0	814.0	873.9	933.8	993.6
62.5°	439.4	489.7	539.9	590.1	640.3	690.6	740.8	791.0	853.0	915.0	977.0
65°	400.2	452.3	504.4	556.6	608.7	660.8	712.9	765.0	829.1	893.2	957.3
67.5°	362.8	416.7	470.6	524.4	578.3	632.2	686.1	740.0	805.9	871.8	937.6
70°	323.1	378.7	434.2	489.8	545.3	600.9	656.4	712.0	779.4	846.9	914.3
72.5°	288.7	345.0	401.3	457.7	514.0	570.3	626.7	683.0	751.4	819.9	888.3
75°	253.2	310.3	367.4	424.6	481.7	538.8	595.9	653.0	722.1	791.2	860.3
77.5°	219.9	277.3	334.8	392.2	449.7	507.1	564.6	622.0	691.2	760.4	829.6
80°	188.3	246.0	303.7	361.3	419.0	476.7	534.3	592.0	660.8	729.5	798.3
82.5°	160.0	217.0	274.0	331.0	388.0	445.0	502.0	559.0	627.4	695.9	764.3
85°	136.2	192.3	248.4	304.6	360.7	416.8	472.9	529.0	596.4	663.9	731.3
87.5°	117.3	172.0	226.7	281.3	336.0	390.7	445.3	500.0	566.2	632.4	698.6
90°	106.3	159.0	211.7	264.3	317.0	369.7	422.3	475.0	539.9	604.8	669.7
92.5°	102.3	153.0	203.7	254.3	305.0	355.7	406.3	457.0	520.6	584.1	647.7
95°	98.3	147.0	195.7	244.3	293.0	341.7	390.3	439.0	501.6	564.1	626.7
97.5°	94.1	140.7	187.2	233.8	280.3	326.9	373.4	420.0	481.7	543.3	605.0
100°	89.9	134.3	178.8	223.2	267.7	312.1	356.6	401.0	461.7	522.3	583.0
102.5°	85.4	127.7	169.9	212.1	254.3	296.6	338.8	381.0	440.4	499.9	559.3
105°	81.0	121.0	161.0	201.0	241.0	281.0	321.0	361.0	419.2	477.4	535.7
107.5°	76.3	114.0	151.7	189.3	227.0	264.7	302.3	340.0	397.0	454.0	511.0
110°	71.7	107.0	142.3	177.7	213.0	248.3	283.7	319.0	374.4	429.9	485.3



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	66.8	99.7	132.6	165.4	198.3	231.2	264.1	297.0	351.0	405.0	459.0
115°	61.4	91.7	121.9	152.1	182.3	212.6	242.8	273.0	325.6	378.1	430.7
117.5°	56.3	84.0	111.7	139.3	167.0	194.7	222.3	250.0	300.9	351.8	402.7
120°	50.1	74.7	99.2	123.8	148.3	172.9	197.4	222.0	271.7	321.3	371.0
122.5°	45.0	67.0	89.0	111.0	133.0	155.0	177.0	199.0	246.7	294.3	342.0
125°	39.4	58.7	77.9	97.1	116.3	135.6	154.8	174.0	219.6	265.1	310.7
127.5°	33.4	49.7	65.9	82.1	98.3	114.6	130.8	147.0	190.0	233.0	276.0
130°	27.7	41.0	54.3	67.7	81.0	94.3	107.7	121.0	160.0	199.0	238.0
132.5°	23.3	34.0	44.7	55.3	66.0	76.7	87.3	98.0	133.0	168.0	203.0
135°	18.7	27.0	35.3	43.7	52.0	60.3	68.7	77.0	108.3	139.7	171.0
137.5°	14.2	20.3	26.4	32.6	38.7	44.8	50.9	57.0	85.0	113.0	141.0
140°	10.7	15.0	19.3	23.7	28.0	32.3	36.7	41.0	65.6	90.1	114.7
142.5°	8.2	11.3	14.4	17.6	20.7	23.8	26.9	30.0	50.8	71.6	92.3
145°	6.2	8.3	10.4	12.6	14.7	16.8	18.9	21.0	38.3	55.7	73.0
147.5°	4.9	6.3	7.8	9.2	10.7	12.1	13.6	15.0	28.9	42.8	56.7
150°	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	21.7	32.3	43.0
152.5°	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	15.7	23.3	31.0
155°	2.9	3.3	3.8	4.2	4.7	5.1	5.6	6.0	10.7	15.3	20.0
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	6.9	9.8	12.7
160°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	4.4	5.9	7.3
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.1	3.7
165°	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.2	1.4	1.7
167.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
170°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
172.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
175°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
177.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	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: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1109.1	1109.7	1110.2	1110.8	1111.3	1111.9	1112.1	1112.3	1112.6	1112.8	1113.0
5°	1115.7	1117.1	1118.6	1120.0	1121.5	1122.9	1123.8	1124.7	1125.6	1126.5	1127.3
7.5°	1120.6	1123.2	1125.9	1128.6	1131.2	1133.9	1135.7	1137.5	1139.2	1141.0	1142.8
10°	1122.5	1126.3	1130.2	1134.1	1138.0	1141.9	1145.1	1148.3	1151.6	1154.8	1158.0
12.5°	1123.7	1129.1	1134.6	1140.0	1145.5	1150.9	1155.9	1160.9	1165.9	1170.9	1175.9
15°	1123.7	1131.1	1138.6	1146.0	1153.5	1160.9	1168.0	1175.1	1182.2	1189.3	1196.5
17.5°	1124.5	1134.3	1144.2	1154.1	1164.0	1173.9	1183.8	1193.7	1203.6	1213.5	1223.3
20°	1125.5	1138.4	1151.3	1164.1	1177.0	1189.9	1202.5	1215.0	1227.6	1240.1	1252.7
22.5°	1126.1	1142.8	1159.6	1176.4	1193.1	1209.9	1224.6	1239.2	1253.9	1268.6	1283.2
25°	1127.5	1148.4	1169.3	1190.1	1211.0	1231.9	1248.3	1264.8	1281.2	1297.7	1314.1
27.5°	1128.1	1152.8	1177.6	1202.4	1227.1	1251.9	1270.1	1288.3	1306.6	1324.8	1343.0
30°	1127.6	1156.3	1184.9	1213.6	1242.2	1270.9	1290.8	1310.7	1330.6	1350.5	1370.3
32.5°	1126.5	1158.4	1190.3	1222.1	1254.0	1285.9	1307.8	1329.7	1351.6	1373.5	1395.3
35°	1124.8	1160.1	1195.3	1230.5	1265.7	1300.9	1324.8	1348.7	1372.6	1396.5	1420.3
37.5°	1123.4	1161.5	1199.6	1237.7	1275.8	1313.9	1339.9	1365.9	1391.9	1417.9	1443.9
40°	1121.0	1161.9	1202.9	1243.9	1284.9	1325.9	1353.9	1381.9	1409.9	1437.9	1465.9
42.5°	1117.6	1161.3	1204.9	1248.6	1292.2	1335.9	1366.2	1396.6	1426.9	1457.2	1487.6
45°	1113.3	1159.6	1205.9	1252.3	1298.6	1344.9	1377.5	1410.0	1442.6	1475.1	1507.7
47.5°	1107.1	1155.8	1204.6	1253.4	1302.1	1350.9	1386.0	1421.1	1456.2	1491.3	1526.5
50°	1098.8	1150.1	1201.3	1252.5	1303.7	1354.9	1392.7	1430.5	1468.2	1506.0	1543.8
52.5°	1089.7	1143.2	1196.6	1250.0	1303.5	1356.9	1397.5	1438.0	1478.6	1519.1	1559.7
55°	1079.2	1134.7	1190.3	1245.8	1301.4	1356.9	1400.0	1443.1	1486.2	1529.3	1572.5
57.5°	1067.1	1124.8	1182.6	1240.4	1298.1	1355.9	1401.5	1447.0	1492.6	1538.1	1583.7
60°	1053.5	1113.4	1173.3	1233.1	1293.0	1352.9	1400.6	1448.2	1495.9	1543.6	1591.2
62.5°	1039.0	1100.9	1162.9	1224.9	1286.9	1348.9	1398.5	1448.0	1497.6	1547.1	1596.7
65°	1021.4	1085.5	1149.6	1213.7	1277.8	1341.9	1392.9	1443.9	1494.9	1545.9	1596.9
67.5°	1003.5	1069.4	1135.3	1201.1	1267.0	1332.9	1385.0	1437.1	1489.2	1541.3	1593.5
70°	981.7	1049.2	1116.6	1184.0	1251.5	1318.9	1372.0	1425.1	1478.2	1531.3	1584.5
72.5°	956.7	1025.2	1093.6	1162.0	1230.5	1298.9	1352.7	1406.5	1460.2	1514.0	1567.8
75°	929.4	998.5	1067.6	1136.7	1205.8	1274.9	1329.1	1383.3	1437.6	1491.8	1546.0
77.5°	898.8	968.1	1037.3	1106.5	1175.7	1244.9	1299.1	1353.3	1407.6	1461.8	1516.0
80°	867.1	935.8	1004.6	1073.4	1142.1	1210.9	1264.5	1318.0	1371.6	1425.1	1478.7
82.5°	832.7	901.2	969.6	1038.0	1106.5	1174.9	1227.7	1280.5	1333.2	1386.0	1438.8
85°	798.7	866.2	933.6	1001.0	1068.5	1135.9	1187.7	1239.5	1291.2	1343.0	1394.8
87.5°	764.8	831.1	897.3	963.5	1029.7	1095.9	1146.6	1197.2	1247.9	1298.6	1349.2
90°	734.6	799.4	864.3	929.2	994.1	1059.0	1108.4	1157.9	1207.3	1256.7	1306.2
92.5°	711.2	774.8	838.3	901.9	965.4	1029.0	1077.1	1125.2	1173.3	1221.4	1269.5
95°	689.2	751.8	814.3	876.9	939.4	1002.0	1049.4	1096.9	1144.3	1191.7	1239.2
97.5°	666.7	728.3	790.0	851.7	913.3	975.0	1020.7	1066.3	1112.0	1157.6	1203.3
100°	643.7	704.3	765.0	825.7	886.3	947.0	991.5	1036.1	1080.6	1125.2	1169.7
102.5°	618.8	678.2	737.7	797.1	856.6	916.0	959.9	1003.8	1047.6	1091.5	1135.4
105°	593.9	652.1	710.3	768.6	826.8	885.0	928.1	971.2	1014.3	1057.4	1100.5
107.5°	568.0	625.0	682.0	739.0	796.0	853.0	895.2	937.4	979.6	1021.8	1064.1
110°	540.8	596.2	651.7	707.1	762.6	818.0	859.1	900.2	941.3	982.4	1023.5



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	513.0	567.0	621.0	675.0	729.0	783.0	823.1	863.2	903.3	943.4	983.5
115°	483.2	535.8	588.3	640.9	693.4	746.0	784.9	823.8	862.6	901.5	940.4
117.5°	453.6	504.4	555.3	606.2	657.1	708.0	745.6	783.1	820.7	858.2	895.8
120°	420.7	470.3	520.0	569.7	619.3	669.0	705.2	741.4	777.7	813.9	850.1
122.5°	389.7	437.3	485.0	532.7	580.3	628.0	662.7	697.3	732.0	766.7	801.3
125°	356.2	401.8	447.3	492.9	538.4	584.0	617.2	650.4	683.7	716.9	750.1
127.5°	319.0	362.0	405.0	448.0	491.0	534.0	566.6	599.1	631.7	664.2	696.8
130°	277.0	316.0	355.0	394.0	433.0	472.0	504.9	537.8	570.7	603.6	636.4
132.5°	238.0	273.0	308.0	343.0	378.0	413.0	445.7	478.3	511.0	543.7	576.3
135°	202.3	233.7	265.0	296.3	327.7	359.0	390.6	422.1	453.7	485.2	516.8
137.5°	169.0	197.0	225.0	253.0	281.0	309.0	338.2	367.4	396.7	425.9	455.1
140°	139.2	163.8	188.3	212.9	237.4	262.0	288.2	314.4	340.7	366.9	393.1
142.5°	113.1	133.9	154.7	175.4	196.2	217.0	240.3	263.7	287.0	310.3	333.7
145°	90.3	107.7	125.0	142.3	159.7	177.0	197.3	217.7	238.0	258.3	278.7
147.5°	70.6	84.4	98.3	112.2	126.1	140.0	157.6	175.1	192.7	210.2	227.8
150°	53.7	64.3	75.0	85.7	96.3	107.0	121.8	136.6	151.3	166.1	180.9
152.5°	38.7	46.3	54.0	61.7	69.3	77.0	89.0	101.0	113.0	125.0	137.0
155°	24.7	29.3	34.0	38.7	43.3	48.0	57.9	67.8	77.7	87.6	97.4
157.5°	15.6	18.4	21.3	24.2	27.1	30.0	37.2	44.4	51.7	58.9	66.1
160°	8.8	10.2	11.7	13.1	14.6	16.0	20.4	24.9	29.3	33.8	38.2
162.5°	4.2	4.8	5.3	5.9	6.4	7.0	9.4	11.9	14.3	16.8	19.2
165°	1.9	2.1	2.3	2.6	2.8	3.0	3.9	4.8	5.7	6.6	7.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
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: P201367

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

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1113.2	1113.5	1113.7	1113.9	1112.6	1111.2	1109.9	1108.6	1107.2	1105.9	1104.6
5°	1128.2	1129.1	1130.0	1130.9	1130.6	1130.2	1129.9	1129.6	1129.2	1128.9	1128.6
7.5°	1144.6	1146.3	1148.1	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9	1149.9
10°	1161.2	1164.5	1167.7	1170.9	1171.3	1171.8	1172.2	1172.7	1173.1	1173.6	1174.0
12.5°	1180.9	1185.9	1190.9	1195.9	1197.0	1198.1	1199.2	1200.3	1201.5	1202.6	1203.7
15°	1203.6	1210.7	1217.8	1224.9	1227.1	1229.3	1231.6	1233.8	1236.0	1238.2	1240.5
17.5°	1233.2	1243.1	1253.0	1262.9	1266.2	1269.6	1272.9	1276.2	1279.6	1282.9	1286.2
20°	1265.2	1277.8	1290.3	1302.9	1307.0	1311.1	1315.2	1319.3	1323.5	1327.6	1331.7
22.5°	1297.9	1312.6	1327.2	1341.9	1346.5	1351.0	1355.6	1360.1	1364.7	1369.2	1373.8
25°	1330.6	1347.0	1363.5	1379.9	1385.1	1390.3	1395.6	1400.8	1406.0	1411.2	1416.5
27.5°	1361.2	1379.5	1397.7	1415.9	1421.9	1427.9	1433.9	1439.9	1445.9	1451.9	1457.9
30°	1390.2	1410.1	1430.0	1449.9	1456.9	1463.9	1470.9	1477.9	1484.9	1491.9	1498.9
32.5°	1417.2	1439.1	1461.0	1482.9	1490.9	1498.9	1506.9	1514.9	1522.9	1530.9	1538.9
35°	1444.2	1468.1	1492.0	1515.9	1524.9	1533.9	1542.9	1551.9	1560.9	1569.9	1578.9
37.5°	1469.9	1495.9	1521.9	1547.9	1557.9	1567.9	1577.9	1587.9	1597.9	1607.9	1617.9
40°	1493.9	1521.9	1549.9	1577.9	1589.0	1600.1	1611.2	1622.3	1633.5	1644.6	1655.7
42.5°	1517.9	1548.2	1578.6	1608.9	1621.1	1633.3	1645.6	1657.8	1670.0	1682.2	1694.5
45°	1540.2	1572.8	1605.3	1637.9	1651.2	1664.6	1677.9	1691.2	1704.6	1717.9	1731.2
47.5°	1561.6	1596.7	1631.8	1666.9	1681.5	1696.0	1710.6	1725.1	1739.7	1754.2	1768.8
50°	1581.6	1619.3	1657.1	1694.9	1710.9	1726.9	1742.9	1758.9	1774.9	1790.9	1806.9
52.5°	1600.2	1640.8	1681.3	1721.9	1738.9	1755.9	1772.9	1789.9	1806.9	1823.9	1840.9
55°	1615.6	1658.7	1701.8	1744.9	1762.9	1780.9	1798.9	1816.9	1834.9	1852.9	1870.9
57.5°	1629.2	1674.8	1720.3	1765.9	1784.7	1803.5	1822.2	1841.0	1859.8	1878.6	1897.3
60°	1638.9	1686.6	1734.2	1781.9	1801.6	1821.2	1840.9	1860.6	1880.2	1899.9	1919.6
62.5°	1646.2	1695.8	1745.3	1794.9	1815.0	1835.1	1855.2	1875.3	1895.5	1915.6	1935.7
65°	1647.9	1698.9	1749.9	1800.9	1821.3	1841.8	1862.2	1882.7	1903.1	1923.6	1944.0
67.5°	1645.6	1697.7	1749.8	1801.9	1822.7	1843.5	1864.2	1885.0	1905.8	1926.6	1947.3
70°	1637.6	1690.7	1743.8	1796.9	1817.7	1838.5	1859.2	1880.0	1900.8	1921.6	1942.3
72.5°	1621.6	1675.3	1729.1	1782.9	1803.8	1824.7	1845.6	1866.5	1887.3	1908.2	1929.1
75°	1600.2	1654.5	1708.7	1762.9	1783.5	1804.0	1824.6	1845.1	1865.7	1886.2	1906.8
77.5°	1570.2	1624.5	1678.7	1732.9	1753.2	1773.6	1793.9	1814.2	1834.6	1854.9	1875.2
80°	1532.2	1585.8	1639.3	1692.9	1713.1	1733.3	1753.6	1773.8	1794.0	1814.2	1834.5
82.5°	1491.6	1544.3	1597.1	1649.9	1669.7	1689.5	1709.2	1729.0	1748.8	1768.6	1788.3
85°	1446.6	1498.3	1550.1	1601.9	1621.5	1641.0	1660.6	1680.1	1699.7	1719.2	1738.8
87.5°	1399.9	1450.6	1501.2	1551.9	1571.1	1590.3	1609.6	1628.8	1648.0	1667.2	1686.5
90°	1355.6	1405.0	1454.5	1503.9	1522.8	1541.7	1560.6	1579.5	1598.3	1617.2	1636.1
92.5°	1317.6	1365.7	1413.8	1461.9	1480.3	1498.8	1517.2	1535.7	1554.1	1572.6	1591.0
95°	1286.6	1334.0	1381.5	1428.9	1446.2	1463.6	1480.9	1498.2	1515.6	1532.9	1550.2
97.5°	1248.9	1294.6	1340.2	1385.9	1403.2	1420.6	1437.9	1455.2	1472.6	1489.9	1507.2
100°	1214.3	1258.8	1303.4	1347.9	1364.7	1381.5	1398.2	1415.0	1431.8	1448.6	1465.3
102.5°	1179.3	1223.1	1267.0	1310.9	1327.2	1343.6	1359.9	1376.2	1392.6	1408.9	1425.2
105°	1143.6	1186.7	1229.8	1272.9	1288.9	1304.9	1320.9	1336.9	1352.9	1368.9	1384.9
107.5°	1106.3	1148.5	1190.7	1232.9	1248.6	1264.2	1279.9	1295.6	1311.2	1326.9	1342.6
110°	1064.6	1105.7	1146.8	1187.9	1203.5	1219.0	1234.6	1250.1	1265.7	1281.2	1296.8



TEST NUMBER: P201367

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-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°	1023.6	1063.7	1103.8	1143.9	1159.0	1174.1	1189.2	1204.3	1219.5	1234.6	1249.7
115°	979.3	1018.1	1057.0	1095.9	1110.6	1125.2	1139.9	1154.6	1169.2	1183.9	1198.6
117.5°	933.3	970.9	1008.4	1046.0	1060.3	1074.6	1089.0	1103.3	1117.6	1131.9	1146.3
120°	886.3	922.6	958.8	995.0	1008.9	1022.8	1036.6	1050.5	1064.4	1078.3	1092.1
122.5°	836.0	870.7	905.3	940.0	953.6	967.1	980.7	994.2	1007.8	1021.3	1034.9
125°	783.3	816.6	849.8	883.0	896.1	909.2	922.3	935.4	948.6	961.7	974.8
127.5°	729.3	761.9	794.4	827.0	839.3	851.7	864.0	876.3	888.7	901.0	913.3
130°	669.3	702.2	735.1	768.0	779.8	791.6	803.3	815.1	826.9	838.7	850.4
132.5°	609.0	641.7	674.3	707.0	718.3	729.7	741.0	752.3	763.7	775.0	786.3
135°	548.3	579.9	611.4	643.0	654.0	665.0	676.0	687.0	698.0	709.0	720.0
137.5°	484.3	513.6	542.8	572.0	583.0	594.0	605.0	616.0	627.0	638.0	649.0
140°	419.3	445.6	471.8	498.0	509.4	520.9	532.3	543.8	555.2	566.7	578.1
142.5°	357.0	380.3	403.7	427.0	438.8	450.6	462.3	474.1	485.9	497.7	509.4
145°	299.0	319.3	339.7	360.0	372.2	384.4	396.7	408.9	421.1	433.3	445.6
147.5°	245.3	262.9	280.4	298.0	310.2	322.4	334.7	346.9	359.1	371.3	383.6
150°	195.7	210.4	225.2	240.0	252.0	264.0	276.0	288.0	300.0	312.0	324.0
152.5°	149.0	161.0	173.0	185.0	196.4	207.9	219.3	230.8	242.2	253.7	265.1
155°	107.3	117.2	127.1	137.0	147.0	157.0	167.0	177.0	187.0	197.0	207.0
157.5°	73.3	80.6	87.8	95.0	103.6	112.1	120.7	129.2	137.8	146.3	154.9
160°	42.7	47.1	51.6	56.0	63.1	70.2	77.3	84.4	91.6	98.7	105.8
162.5°	21.7	24.1	26.6	29.0	33.8	38.6	43.3	48.1	52.9	57.7	62.4
165°	8.3	9.2	10.1	11.0	13.9	16.8	19.7	22.6	25.4	28.3	31.2
167.5°	1.3	1.6	1.8	2.0	3.2	4.4	5.7	6.9	8.1	9.3	10.6
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: P201367

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

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1095.9	1095.9
2.5°	1103.2	1101.9
5°	1128.2	1127.9
7.5°	1149.9	1149.9
10°	1174.5	1174.9
12.5°	1204.8	1205.9
15°	1242.7	1244.9
17.5°	1289.6	1292.9
20°	1335.8	1339.9
22.5°	1378.3	1382.9
25°	1421.7	1426.9
27.5°	1463.9	1469.9
30°	1505.9	1512.9
32.5°	1546.9	1554.9
35°	1587.9	1596.9
37.5°	1627.9	1637.9
40°	1666.8	1677.9
42.5°	1706.7	1718.9
45°	1744.6	1757.9
47.5°	1783.3	1797.9
50°	1822.9	1838.9
52.5°	1857.9	1874.9
55°	1888.9	1906.9
57.5°	1916.1	1934.9
60°	1939.2	1958.9
62.5°	1955.8	1975.9
65°	1964.5	1984.9
67.5°	1968.1	1988.9
70°	1963.1	1983.9
72.5°	1950.0	1970.9
75°	1927.3	1947.9
77.5°	1895.6	1915.9
80°	1854.7	1874.9
82.5°	1808.1	1827.9
85°	1758.3	1777.9
87.5°	1705.7	1724.9
90°	1655.0	1673.9
92.5°	1609.5	1627.9
95°	1567.6	1584.9
97.5°	1524.6	1541.9
100°	1482.1	1498.9
102.5°	1441.6	1457.9
105°	1400.9	1416.9
107.5°	1358.2	1373.9
110°	1312.3	1327.9





TEST NUMBER: P201367

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

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1264.8	1279.9
115°	1213.2	1227.9
117.5°	1160.6	1174.9
120°	1106.0	1119.9
122.5°	1048.4	1062.0
125°	987.9	1001.0
127.5°	925.7	938.0
130°	862.2	874.0
132.5°	797.7	809.0
135°	731.0	742.0
137.5°	660.0	671.0
140°	589.6	601.0
142.5°	521.2	533.0
145°	457.8	470.0
147.5°	395.8	408.0
150°	336.0	348.0
152.5°	276.6	288.0
155°	217.0	227.0
157.5°	163.4	172.0
160°	112.9	120.0
162.5°	67.2	72.0
165°	34.1	37.0
167.5°	11.8	13.0
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)