

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: P201366

Luminaire Tested: **4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201366
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-L835-CD2-U
Description: 4 ft. Low Bay Linear, 10000 lm, Wht Asym lens, 3.5K
Light Source: (308) 3500K CCT, 80 CRI LEDs
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
OT50W01000CC, OT50W0760CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9843.1 lumens
Efficiency: N/A
Efficacy: 118.9 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

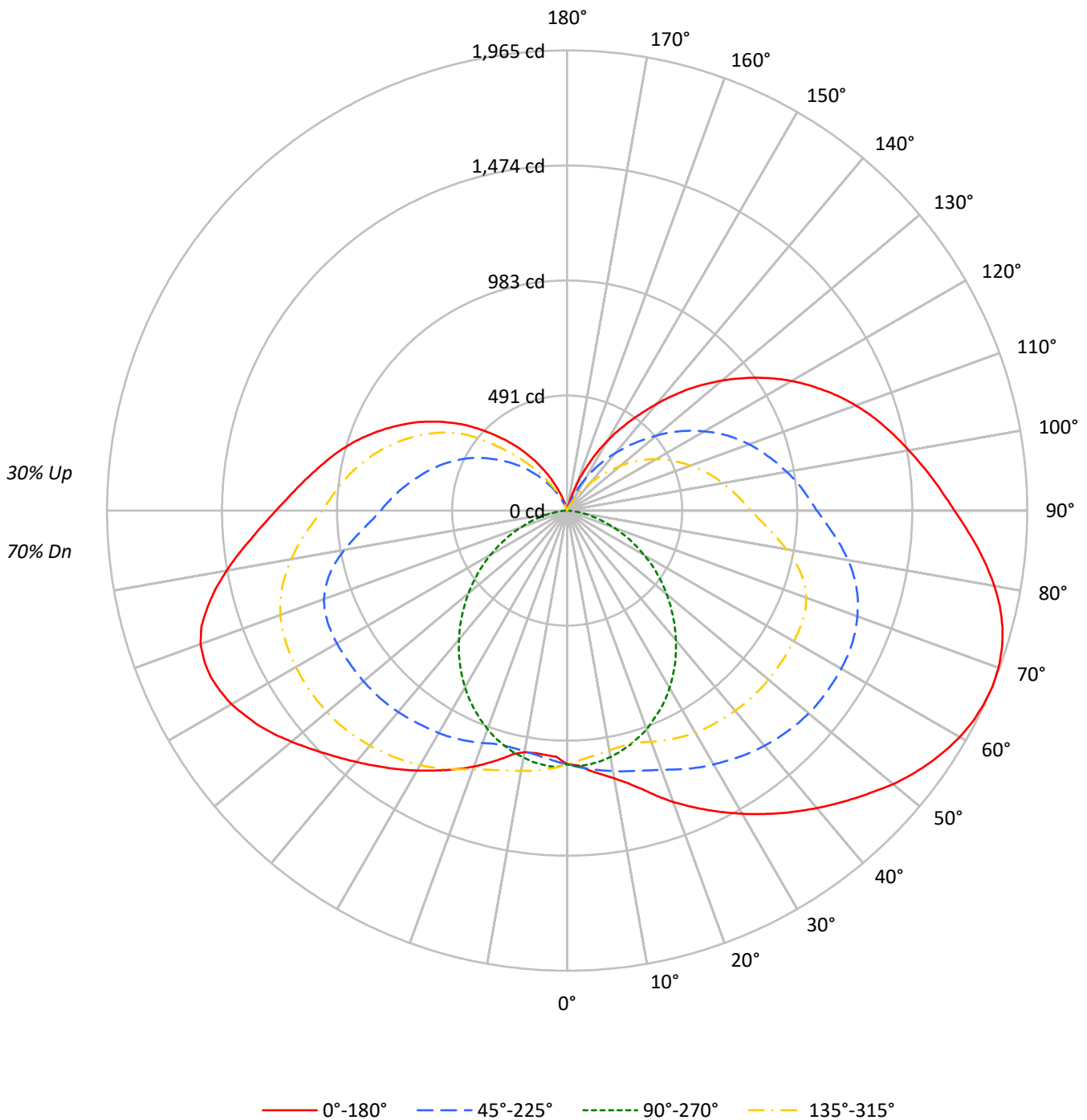
Input Watts (W): 82.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17451	17451	17451	17451
5°	16257	17517	15277	17582
10°	15576	17319	14052	17366
15°	15387	17037	13744	17086
20°	15623	16728	13722	16713
25°	15859	16294	13747	16260
30°	16181	15797	13871	15761
35°	16581	15230	14089	15154
40°	17054	14558	14412	14480
45°	17629	13848	14871	13764
50°	18337	13085	15494	12992
55°	19050	12249	16213	12118
60°	19758	11187	16894	11161
65°	20372	10102	17447	10034
70°	20887	8719	17750	8636
75°	21217	7112	17525	7159
80°	21321	5031	16989	5167
85°	21319	2412	16402	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	1.0
10°-20°	311.0	3.2
20°-30°	523.5	5.3
30°-40°	727.1	7.4
40°-50°	910.2	9.2
50°-60°	1059.1	10.8
60°-70°	1148.4	11.7
70°-80°	1130.4	11.5
80°-90°	1000.4	10.2
90°-100°	862.0	8.8
100°-110°	725.2	7.4
110°-120°	566.9	5.8
120°-130°	397.0	4.0
130°-140°	234.5	2.4
140°-150°	108.4	1.1
150°-160°	32.5	0.3
160°-170°	3.1	0.0
170°-180°	0.0	0.0
0°-30°	937.8	9.5
0°-40°	1664.9	16.9
0°-60°	3634.2	36.9
0°-90°	6913.4	70.2
90°-120°	2154.1	21.9
90°-150°	2894.1	29.4
90°-180°	2930.0	29.8
0°-180°	9843.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1083	1083	1083	1083	1083	
5°	1115	1088	1047	1092	1115	108
15°	1230	1036	1099	1038	1230	353
25°	1410	939	1222	937	1410	655
35°	1578	802	1341	798	1578	993
45°	1737	639	1465	635	1737	1347
55°	1884	468	1604	463	1884	1689
65°	1961	294	1680	292	1961	1943
75°	1925	136	1590	137	1925	2029
85°	1757	21	1352	24	1757	1455
90°	1654	0	1243	1	1654	907
95°	1566	0	1153	1	1566	1262
105°	1400	0	1000	1	1400	1480
115°	1213	0	837	1	1213	1205
125°	989	0	661	1	989	888
135°	733	0	469	2	733	569
145°	464	0	288	2	464	296
155°	224	0	122	2	224	108
165°	37	0	9	2	37	14
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°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1088.9	1089.0	1089.1	1089.2	1089.3	1089.5	1089.6	1089.7	1089.8	1089.9	1090.6
5°	1114.6	1113.7	1112.8	1112.0	1111.1	1110.2	1109.3	1108.5	1107.6	1106.7	1106.8
7.5°	1136.3	1135.2	1134.1	1133.0	1131.9	1130.9	1129.8	1128.7	1127.6	1126.5	1125.6
10°	1161.0	1159.0	1157.1	1155.1	1153.1	1151.2	1149.2	1147.2	1145.3	1143.3	1141.8
12.5°	1191.7	1189.1	1186.4	1183.8	1181.2	1178.5	1175.9	1173.3	1170.6	1168.0	1164.9
15°	1230.2	1226.9	1223.6	1220.3	1217.0	1213.8	1210.5	1207.2	1203.9	1200.6	1195.0
17.5°	1277.6	1273.2	1268.8	1264.4	1260.0	1255.7	1251.3	1246.9	1242.5	1238.1	1229.8
20°	1324.1	1318.6	1313.1	1307.6	1302.1	1296.7	1291.2	1285.7	1280.2	1274.7	1263.9
22.5°	1366.6	1360.4	1354.3	1348.1	1342.0	1335.8	1329.7	1323.5	1317.4	1311.2	1298.5
25°	1410.0	1403.2	1396.4	1389.6	1382.8	1376.0	1369.2	1362.4	1355.6	1348.8	1334.1
27.5°	1452.5	1445.0	1437.6	1430.1	1422.6	1415.2	1407.7	1400.2	1392.8	1385.3	1368.6
30°	1495.0	1486.7	1478.3	1470.0	1461.6	1453.3	1444.9	1436.6	1428.2	1419.9	1401.2
32.5°	1536.5	1527.4	1518.3	1509.2	1500.1	1490.9	1481.8	1472.7	1463.6	1454.5	1433.6
35°	1578.0	1568.3	1558.7	1549.0	1539.4	1529.7	1520.1	1510.4	1500.8	1491.1	1468.0
37.5°	1618.5	1607.9	1597.2	1586.6	1575.9	1565.3	1554.6	1544.0	1533.3	1522.7	1497.8
40°	1658.1	1646.6	1635.0	1623.5	1612.0	1600.4	1588.9	1577.4	1565.8	1554.3	1527.3
42.5°	1698.6	1686.2	1673.8	1661.4	1649.0	1636.5	1624.1	1611.7	1599.3	1586.9	1557.5
45°	1737.1	1723.9	1710.7	1697.6	1684.4	1671.2	1658.0	1644.9	1631.7	1618.5	1586.7
47.5°	1776.6	1762.4	1748.3	1734.1	1720.0	1705.8	1691.7	1677.5	1663.4	1649.2	1614.9
50°	1817.2	1801.7	1786.2	1770.7	1755.2	1739.8	1724.3	1708.8	1693.3	1677.8	1641.0
52.5°	1852.7	1836.3	1820.0	1803.6	1787.3	1770.9	1754.6	1738.2	1721.9	1705.5	1666.1
55°	1884.3	1867.2	1850.1	1832.9	1815.8	1798.7	1781.6	1764.4	1747.3	1730.2	1688.1
57.5°	1912.0	1894.3	1876.6	1859.0	1841.3	1823.6	1805.9	1788.3	1770.6	1752.9	1708.4
60°	1935.7	1917.4	1899.0	1880.7	1862.4	1844.0	1825.7	1807.4	1789.0	1770.7	1724.1
62.5°	1952.5	1933.9	1915.4	1896.8	1878.3	1859.7	1841.2	1822.6	1804.1	1785.5	1737.0
65°	1961.4	1942.7	1924.1	1905.4	1886.7	1868.1	1849.4	1830.7	1812.1	1793.4	1743.3
67.5°	1965.4	1946.5	1927.6	1908.7	1889.8	1871.0	1852.1	1833.2	1814.3	1795.4	1744.0
70°	1960.4	1941.4	1922.4	1903.4	1884.4	1865.5	1846.5	1827.5	1808.5	1789.5	1737.2
72.5°	1947.6	1928.6	1909.6	1890.6	1871.6	1852.6	1833.6	1814.6	1795.6	1776.6	1723.9
75°	1924.9	1906.1	1887.3	1868.6	1849.8	1831.0	1812.2	1793.5	1774.7	1755.9	1703.0
77.5°	1893.2	1874.9	1856.5	1838.2	1819.9	1801.5	1783.2	1764.9	1746.5	1728.2	1675.3
80°	1852.7	1834.7	1816.7	1798.7	1780.7	1762.7	1744.7	1726.7	1708.7	1690.7	1638.2
82.5°	1806.3	1788.7	1771.2	1753.6	1736.0	1718.5	1700.9	1683.3	1665.8	1648.2	1596.3
85°	1756.9	1739.4	1722.0	1704.5	1687.1	1669.6	1652.2	1634.7	1617.3	1599.8	1548.9
87.5°	1704.5	1687.4	1670.3	1653.1	1636.0	1618.9	1601.8	1584.6	1567.5	1550.4	1500.6
90°	1654.1	1637.2	1620.3	1603.4	1586.5	1569.5	1552.6	1535.7	1518.8	1501.9	1453.5
92.5°	1608.7	1592.2	1575.7	1559.3	1542.8	1526.3	1509.8	1493.4	1476.9	1460.4	1413.4
95°	1566.2	1550.3	1534.4	1518.4	1502.5	1486.6	1470.7	1454.7	1438.8	1422.9	1377.1
97.5°	1523.7	1508.1	1492.5	1476.9	1461.3	1445.8	1430.2	1414.6	1399.0	1383.4	1338.9
100°	1481.2	1466.0	1450.9	1435.7	1420.6	1405.4	1390.3	1375.1	1360.0	1344.8	1301.1
102.5°	1440.7	1425.9	1411.1	1396.2	1381.4	1366.6	1351.8	1336.9	1322.1	1307.3	1264.5
105°	1400.2	1385.7	1371.2	1356.7	1342.2	1327.7	1313.2	1298.7	1284.2	1269.7	1227.5
107.5°	1357.7	1343.3	1328.9	1314.5	1300.1	1285.8	1271.4	1257.0	1242.6	1228.2	1187.3
110°	1312.2	1298.0	1283.9	1269.7	1255.6	1241.4	1227.3	1213.1	1199.0	1184.8	1145.1



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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°	1264.8	1250.9	1236.9	1223.0	1209.0	1195.1	1181.1	1167.2	1153.2	1139.3	1100.8
115°	1213.4	1199.3	1185.3	1171.2	1157.2	1143.1	1129.1	1115.0	1101.0	1086.9	1050.2
117.5°	1161.0	1147.9	1134.9	1121.8	1108.8	1095.7	1082.7	1069.6	1056.6	1043.5	1007.5
120°	1106.7	1093.5	1080.3	1067.2	1054.0	1040.8	1027.6	1014.5	1001.3	988.1	953.4
122.5°	1049.4	1036.7	1023.9	1011.2	998.5	985.7	973.0	960.3	947.5	934.8	901.4
125°	989.1	977.0	964.9	952.9	940.8	928.7	916.6	904.6	892.5	880.4	848.2
127.5°	926.9	915.5	904.1	892.6	881.2	869.8	858.4	846.9	835.5	824.1	793.1
130°	863.6	852.8	842.1	831.3	820.6	809.8	799.1	788.3	777.6	766.8	736.9
132.5°	799.4	789.2	779.0	768.8	758.6	748.3	738.1	727.9	717.7	707.5	679.1
135°	733.2	723.4	713.6	703.9	694.1	684.3	674.5	664.8	655.0	645.2	618.7
137.5°	663.0	653.8	644.6	635.3	626.1	616.9	607.7	598.4	589.2	580.0	556.0
140°	593.9	585.6	577.2	568.9	560.5	552.2	543.8	535.5	527.1	518.8	496.7
142.5°	526.7	519.5	512.2	505.0	497.7	490.5	483.2	476.0	468.7	461.5	441.5
145°	464.4	457.9	451.4	445.0	438.5	432.0	425.5	419.1	412.6	406.1	387.7
147.5°	403.2	397.4	391.6	385.7	379.9	374.1	368.3	362.4	356.6	350.8	333.9
150°	343.9	338.6	333.3	328.1	322.8	317.5	312.2	307.0	301.7	296.4	281.3
152.5°	284.6	279.8	274.9	270.1	265.3	260.4	255.6	250.8	245.9	241.1	228.0
155°	224.3	220.2	216.2	212.1	208.0	204.0	199.9	195.8	191.8	187.7	176.1
157.5°	170.0	166.6	163.2	159.8	156.4	152.9	149.5	146.1	142.7	139.3	129.9
160°	118.6	115.4	112.2	109.0	105.8	102.7	99.5	96.3	93.1	89.9	83.6
162.5°	71.1	69.1	67.2	65.2	63.2	61.3	59.3	57.3	55.4	53.4	49.2
165°	36.6	35.3	34.0	32.6	31.3	30.0	28.7	27.3	26.0	24.7	22.7
167.5°	12.8	12.4	11.9	11.5	11.1	10.6	10.2	9.8	9.3	8.9	8.1
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°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1091.2	1091.9	1092.5	1093.2	1093.8	1094.5	1095.1	1095.8	1094.3	1092.7	1091.2
5°	1106.9	1107.0	1107.1	1107.3	1107.4	1107.5	1107.6	1107.7	1105.3	1102.9	1100.4
7.5°	1124.7	1123.9	1123.0	1122.1	1121.2	1120.4	1119.5	1118.6	1115.1	1111.6	1108.0
10°	1140.2	1138.7	1137.1	1135.6	1134.0	1132.5	1130.9	1129.4	1124.4	1119.3	1114.3
12.5°	1161.8	1158.8	1155.7	1152.6	1149.5	1146.5	1143.4	1140.3	1133.6	1126.9	1120.2
15°	1189.4	1183.8	1178.2	1172.6	1167.0	1161.4	1155.8	1150.2	1141.5	1132.8	1124.2
17.5°	1221.4	1213.1	1204.7	1196.4	1188.0	1179.7	1171.3	1163.0	1151.9	1140.8	1129.7
20°	1253.2	1242.4	1231.6	1220.9	1210.1	1199.3	1188.6	1177.8	1163.8	1149.7	1135.7
22.5°	1285.7	1273.0	1260.3	1247.5	1234.8	1222.1	1209.3	1196.6	1179.1	1161.7	1144.2
25°	1319.4	1304.7	1290.0	1275.2	1260.5	1245.8	1231.1	1216.4	1195.1	1173.8	1152.5
27.5°	1351.9	1335.2	1318.5	1301.9	1285.2	1268.5	1251.8	1235.1	1210.1	1185.1	1160.0
30°	1382.6	1363.9	1345.2	1326.6	1307.9	1289.2	1270.6	1251.9	1223.4	1194.8	1166.3
32.5°	1412.8	1391.9	1371.1	1350.2	1329.4	1308.5	1287.7	1266.8	1235.0	1203.1	1171.3
35°	1445.0	1421.9	1398.9	1375.8	1352.8	1329.7	1306.7	1283.6	1248.7	1213.8	1178.8
37.5°	1472.9	1447.9	1423.0	1398.1	1373.2	1348.2	1323.3	1298.4	1260.5	1222.6	1184.8
40°	1500.3	1473.3	1446.3	1419.2	1392.2	1365.2	1338.2	1311.2	1270.7	1230.2	1189.7
42.5°	1528.1	1498.6	1469.2	1439.8	1410.4	1380.9	1351.5	1322.1	1279.0	1235.8	1192.7
45°	1554.8	1523.0	1491.2	1459.3	1427.5	1395.7	1363.8	1332.0	1286.3	1240.6	1195.0
47.5°	1580.7	1546.4	1512.2	1477.9	1443.7	1409.4	1375.2	1340.9	1292.6	1244.3	1196.0
50°	1604.2	1567.5	1530.7	1493.9	1457.1	1420.4	1383.6	1346.8	1296.0	1245.1	1194.3
52.5°	1626.7	1587.3	1547.9	1508.4	1469.0	1429.6	1390.2	1350.8	1297.5	1244.3	1191.0
55°	1646.1	1604.0	1562.0	1519.9	1477.9	1435.8	1393.8	1351.7	1296.4	1241.0	1185.7
57.5°	1664.0	1619.5	1575.0	1530.6	1486.1	1441.6	1397.2	1352.7	1295.1	1237.4	1179.8
60°	1677.6	1631.0	1584.5	1537.9	1491.4	1444.8	1398.3	1351.7	1291.9	1232.0	1172.2
62.5°	1688.5	1639.9	1591.4	1542.9	1494.4	1445.8	1397.3	1348.8	1287.0	1225.2	1163.4
65°	1693.3	1643.2	1593.2	1543.1	1493.1	1443.0	1393.0	1342.9	1279.1	1215.3	1151.5
67.5°	1692.6	1641.3	1589.9	1538.5	1487.1	1435.8	1384.4	1333.0	1267.5	1201.9	1136.4
70°	1685.0	1632.7	1580.4	1528.2	1475.9	1423.6	1371.4	1319.1	1252.2	1185.4	1118.5
72.5°	1671.2	1618.5	1565.8	1513.1	1460.4	1407.7	1355.0	1302.3	1234.2	1166.2	1098.1
75°	1650.1	1597.1	1544.2	1491.3	1438.4	1385.4	1332.5	1279.6	1210.9	1142.2	1073.4
77.5°	1622.4	1569.4	1516.5	1463.6	1410.7	1357.7	1304.8	1251.9	1183.0	1114.0	1045.1
80°	1585.7	1533.3	1480.8	1428.3	1375.8	1323.4	1270.9	1218.4	1149.8	1081.2	1012.5
82.5°	1544.3	1492.4	1440.5	1388.5	1336.6	1284.7	1232.7	1180.8	1112.9	1045.1	977.2
85°	1497.9	1447.0	1396.0	1345.1	1294.1	1243.2	1192.2	1141.3	1074.5	1007.8	941.0
87.5°	1450.7	1400.9	1351.0	1301.2	1251.3	1201.5	1151.6	1101.8	1036.4	970.9	905.5
90°	1405.1	1356.7	1308.3	1259.8	1211.4	1163.0	1114.6	1066.2	1001.9	937.5	873.2
92.5°	1366.4	1319.4	1272.4	1225.5	1178.5	1131.5	1084.5	1037.5	974.5	911.5	848.4
95°	1331.3	1285.5	1239.7	1194.0	1148.2	1102.4	1056.6	1010.8	948.8	886.8	824.7
97.5°	1294.5	1250.0	1205.5	1161.1	1116.6	1072.1	1027.7	983.2	922.3	861.3	800.4
100°	1257.4	1213.7	1170.0	1126.4	1082.7	1039.0	995.3	951.6	892.0	832.4	772.7
102.5°	1221.7	1178.8	1136.0	1093.2	1050.4	1007.5	964.7	921.9	863.4	804.9	746.3
105°	1185.4	1143.2	1101.1	1058.9	1016.8	974.6	932.5	890.3	832.9	775.5	718.0
107.5°	1146.3	1105.4	1064.4	1023.5	982.5	941.6	900.6	859.7	803.4	747.1	690.7
110°	1105.3	1065.6	1025.8	986.1	946.3	906.6	866.8	827.1	771.9	716.6	661.4



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1062.2	1023.7	985.2	946.6	908.1	869.6	831.0	792.5	738.7	684.9	631.1
115°	1013.6	976.9	940.2	903.6	866.9	830.2	793.6	756.9	704.3	651.7	599.1
117.5°	971.5	935.5	899.5	863.4	827.4	791.4	755.4	719.4	668.3	617.3	566.2
120°	918.7	884.0	849.3	814.7	780.0	745.3	710.6	675.9	627.1	578.4	529.6
122.5°	868.0	834.7	801.3	767.9	734.5	701.2	667.8	634.4	587.5	540.6	493.7
125°	816.1	783.9	751.7	719.6	687.4	655.2	623.1	590.9	546.3	501.7	457.2
127.5°	762.2	731.2	700.2	669.3	638.3	607.3	576.4	545.4	503.4	461.3	419.3
130°	707.1	677.2	647.3	617.5	587.6	557.7	527.9	498.0	458.8	419.6	380.4
132.5°	650.6	622.2	593.8	565.3	536.9	508.5	480.0	451.6	415.3	378.9	342.6
135°	592.3	565.8	539.4	512.9	486.5	460.0	433.6	407.1	373.4	339.7	306.0
137.5°	531.9	507.9	483.8	459.8	435.7	411.7	387.6	363.6	332.5	301.5	270.4
140°	474.7	452.6	430.5	408.5	386.4	364.3	342.3	320.2	291.2	262.2	233.2
142.5°	421.5	401.5	381.5	361.6	341.6	321.6	301.6	281.6	255.1	228.7	202.2
145°	369.2	350.8	332.3	313.9	295.4	277.0	258.5	240.1	216.8	193.5	170.3
147.5°	317.0	300.1	283.2	266.2	249.3	232.4	215.5	198.6	179.1	159.5	140.0
150°	266.1	251.0	235.8	220.7	205.5	190.4	175.2	160.1	144.1	128.0	112.0
152.5°	215.0	201.9	188.8	175.8	162.7	149.6	136.6	123.5	110.9	98.3	85.6
155°	164.4	152.8	141.2	129.5	117.9	106.3	94.6	83.0	74.4	65.9	57.3
157.5°	120.4	111.0	101.5	92.1	82.6	73.2	63.7	54.3	48.6	42.9	37.2
160°	77.4	71.1	64.9	58.6	52.4	46.1	39.9	33.6	30.0	26.4	22.7
162.5°	45.0	40.9	36.7	32.5	28.3	24.2	20.0	15.8	14.0	12.3	10.5
165°	20.7	18.8	16.8	14.8	12.8	10.9	8.9	6.9	6.1	5.4	4.6
167.5°	7.4	6.6	5.8	5.1	4.3	3.5	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: P201366

CATALOG NUMBER: 4LBLELD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1089.7	1088.1	1086.6	1085.1	1083.5	1082.0	1083.2	1084.4	1085.6	1086.8	1088.1
5°	1098.0	1095.6	1093.2	1090.7	1088.3	1085.9	1086.1	1086.3	1086.6	1086.8	1087.0
7.5°	1104.5	1101.0	1097.5	1093.9	1090.4	1086.9	1086.1	1085.4	1084.6	1083.8	1083.1
10°	1109.2	1104.2	1099.1	1094.1	1089.0	1084.0	1082.2	1080.5	1078.7	1077.0	1075.2
12.5°	1113.5	1106.8	1100.1	1093.4	1086.7	1080.0	1077.0	1074.1	1071.1	1068.1	1065.2
15°	1115.5	1106.8	1098.1	1089.5	1080.8	1072.1	1068.0	1064.0	1059.9	1055.8	1051.8
17.5°	1118.6	1107.6	1096.5	1085.4	1074.3	1063.2	1057.8	1052.4	1047.1	1041.7	1036.3
20°	1121.6	1107.6	1093.5	1079.5	1065.4	1051.4	1045.0	1038.6	1032.3	1025.9	1019.5
22.5°	1126.8	1109.3	1091.9	1074.4	1057.0	1039.5	1031.2	1022.8	1014.5	1006.1	997.8
25°	1131.2	1109.9	1088.6	1067.3	1046.0	1024.7	1015.1	1005.6	996.0	986.5	976.9
27.5°	1135.0	1110.0	1085.0	1059.9	1034.9	1009.9	998.6	987.3	976.0	964.7	953.3
30°	1137.7	1109.2	1080.6	1052.1	1023.5	995.0	981.6	968.2	954.8	941.4	928.1
32.5°	1139.4	1107.6	1075.7	1043.9	1012.0	980.2	964.5	948.8	933.1	917.4	901.7
35°	1143.9	1109.0	1074.1	1039.1	1004.2	969.3	950.8	932.2	913.7	895.1	876.6
37.5°	1146.9	1109.0	1071.1	1033.3	995.4	957.5	935.9	914.2	892.6	871.0	849.3
40°	1149.2	1108.6	1068.1	1027.6	987.1	946.6	921.7	896.8	871.8	846.9	822.0
42.5°	1149.5	1106.4	1063.2	1020.1	976.9	933.8	905.8	877.8	849.8	821.8	793.8
45°	1149.3	1103.6	1057.9	1012.3	966.6	920.9	889.6	858.3	827.0	795.7	764.5
47.5°	1147.7	1099.3	1051.0	1002.7	954.4	906.1	871.7	837.4	803.0	768.6	734.3
50°	1143.5	1092.6	1041.8	991.0	940.1	889.3	852.1	814.9	777.6	740.4	703.2
52.5°	1137.8	1084.5	1031.3	978.0	924.8	871.5	831.5	791.6	751.6	711.6	671.7
55°	1130.4	1075.0	1019.7	964.4	909.0	853.7	810.9	768.1	725.3	682.5	639.6
57.5°	1122.2	1064.5	1006.9	949.3	891.6	834.0	788.7	743.3	698.0	652.6	607.3
60°	1112.4	1052.5	992.7	932.9	873.0	813.2	764.9	716.6	668.3	620.0	571.6
62.5°	1101.6	1039.7	977.9	916.1	854.3	792.5	741.9	691.3	640.6	590.0	539.4
65°	1087.7	1024.0	960.2	896.4	832.6	768.8	716.1	663.4	610.7	558.0	505.3
67.5°	1070.8	1005.3	939.7	874.2	808.6	743.1	688.7	634.4	580.0	525.7	471.3
70°	1051.7	984.8	918.0	851.1	784.3	717.4	661.2	605.0	548.8	492.6	436.3
72.5°	1030.0	962.0	893.9	825.8	757.8	689.7	632.3	574.9	517.4	460.0	402.6
75°	1004.7	936.0	867.3	798.5	729.8	661.1	602.8	544.5	486.2	427.9	369.6
77.5°	976.1	907.2	838.2	769.3	700.3	631.4	572.6	513.7	454.9	396.0	337.2
80°	943.9	875.3	806.7	738.0	669.4	600.8	541.8	482.9	423.9	365.0	306.0
82.5°	909.4	841.5	773.7	705.8	638.0	570.1	511.6	453.1	394.6	336.1	277.5
85°	874.3	807.5	740.8	674.0	607.3	540.5	482.8	425.0	367.3	309.5	251.8
87.5°	840.0	774.6	709.1	643.7	578.2	512.8	456.4	399.9	343.5	287.1	230.6
90°	808.8	744.5	680.1	615.8	551.4	487.1	433.0	378.9	324.7	270.6	216.5
92.5°	785.4	722.4	659.4	596.3	533.3	470.3	418.0	365.8	313.5	261.3	209.0
95°	762.7	700.7	638.7	576.6	514.6	452.6	402.3	352.0	301.7	251.4	201.2
97.5°	739.5	678.5	617.6	556.7	495.7	434.8	386.5	338.2	289.9	241.6	193.2
100°	713.1	653.5	593.9	534.2	474.6	415.0	368.9	322.8	276.7	230.6	184.4
102.5°	687.8	629.3	570.8	512.2	453.7	395.2	351.3	307.4	263.5	219.6	175.6
105°	660.6	603.2	545.8	488.3	430.9	373.5	332.0	290.5	249.0	207.5	166.0
107.5°	634.4	578.1	521.8	465.4	409.1	352.8	313.6	274.4	235.2	196.0	156.8
110°	606.2	550.9	495.7	440.5	385.2	330.0	293.3	256.7	220.0	183.3	146.7



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	577.3	523.5	469.7	415.9	362.1	308.3	274.0	239.8	205.5	171.3	137.0
115°	546.5	494.0	441.4	388.8	336.2	283.6	252.1	220.6	189.1	157.6	126.0
117.5°	515.2	464.1	413.1	362.0	311.0	259.9	231.0	202.1	173.3	144.4	115.5
120°	480.9	432.1	383.4	334.6	285.9	237.1	210.8	184.4	158.1	131.7	105.4
122.5°	446.8	400.0	353.1	306.2	259.3	212.4	188.8	165.2	141.6	118.0	94.4
125°	412.6	368.0	323.4	278.9	234.3	189.7	168.6	147.5	126.5	105.4	84.3
127.5°	377.2	335.2	293.1	251.1	209.0	167.0	148.4	129.9	111.3	92.8	74.2
130°	341.2	302.1	262.9	223.7	184.5	145.3	129.2	113.0	96.9	80.7	64.6
132.5°	306.2	269.9	233.5	197.2	160.8	124.5	110.7	96.8	83.0	69.2	55.3
135°	272.3	238.6	204.9	171.2	137.5	103.8	92.3	80.7	69.2	57.7	46.1
137.5°	239.3	208.3	177.2	146.1	115.1	84.0	74.7	65.3	56.0	46.7	37.3
140°	204.2	175.3	146.3	117.3	88.3	59.3	52.7	46.1	39.5	32.9	26.4
142.5°	175.8	149.3	122.9	96.4	70.0	43.5	38.7	33.8	29.0	24.2	19.3
145°	147.0	123.7	100.4	77.2	53.9	30.6	27.2	23.8	20.4	17.0	13.6
147.5°	120.4	100.9	81.3	61.8	42.2	22.7	20.2	17.7	15.1	12.6	10.1
150°	96.0	79.9	63.9	47.9	31.8	15.8	14.0	12.3	10.5	8.8	7.0
152.5°	73.0	60.4	47.8	35.1	22.5	9.9	8.8	7.7	6.6	5.5	4.4
155°	48.7	40.2	31.6	23.0	14.5	5.9	5.2	4.6	3.9	3.3	2.6
157.5°	31.5	25.8	20.1	14.4	8.7	3.0	2.7	2.3	2.0	1.7	1.3
160°	19.1	15.5	11.9	8.2	4.6	1.0	0.9	0.8	0.7	0.6	0.4
162.5°	8.8	7.0	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.8	3.1	2.3	1.5	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: P201366

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1089.3	1090.5	1091.7	1092.9	1090.7	1088.5	1086.3	1084.1	1081.9	1079.7	1077.5
5°	1087.2	1087.5	1087.7	1087.9	1085.2	1082.4	1079.7	1076.9	1074.2	1071.4	1068.7
7.5°	1082.3	1081.5	1080.8	1080.0	1076.9	1073.8	1070.8	1067.7	1064.6	1061.5	1058.5
10°	1073.5	1071.7	1070.0	1068.2	1064.9	1061.6	1058.3	1055.0	1051.7	1048.4	1045.1
12.5°	1062.2	1059.2	1056.3	1053.3	1050.0	1046.7	1043.4	1040.1	1036.9	1033.6	1030.3
15°	1047.7	1043.6	1039.6	1035.5	1032.3	1029.1	1026.0	1022.8	1019.6	1016.4	1013.3
17.5°	1030.9	1025.6	1020.2	1014.8	1011.9	1009.1	1006.2	1003.4	1000.5	997.7	994.8
20°	1013.1	1006.8	1000.4	994.0	991.6	989.2	986.8	984.4	981.9	979.5	977.1
22.5°	989.4	981.1	972.7	964.4	963.2	962.0	960.8	959.6	958.3	957.1	955.9
25°	967.4	957.8	948.3	938.7	938.3	937.8	937.4	937.0	936.5	936.1	935.7
27.5°	942.0	930.7	919.4	908.1	909.1	910.1	911.1	912.1	913.0	914.0	915.0
30°	914.7	901.3	887.9	874.5	877.5	880.4	883.4	886.4	889.3	892.3	895.3
32.5°	886.0	870.3	854.6	838.9	844.2	849.4	854.7	860.0	865.2	870.5	875.8
35°	858.0	839.5	820.9	802.4	810.2	818.0	825.8	833.6	841.3	849.1	856.9
37.5°	827.7	806.1	784.4	762.8	773.3	783.9	794.4	805.0	815.5	826.1	836.6
40°	797.1	772.1	747.2	722.3	735.6	748.9	762.2	775.5	788.7	802.0	815.3
42.5°	765.8	737.8	709.8	681.8	697.6	713.4	729.2	745.0	760.9	776.7	792.5
45°	733.2	701.9	670.6	639.3	657.9	676.4	695.0	713.5	732.1	750.6	769.2
47.5°	699.9	665.5	631.2	596.8	618.0	639.2	660.4	681.6	702.7	723.9	745.1
50°	666.0	628.7	591.5	554.3	578.1	602.0	625.8	649.6	673.5	697.3	721.1
52.5°	631.7	591.7	551.8	511.8	538.0	564.3	590.5	616.8	643.0	669.3	695.5
55°	596.8	554.0	511.2	468.4	496.9	525.5	554.0	582.6	611.1	639.7	668.2
57.5°	561.9	516.6	471.2	425.9	456.7	487.6	518.4	549.3	580.1	611.0	641.8
60°	523.3	475.0	426.7	378.4	411.9	445.4	478.9	512.4	545.8	579.3	612.8
62.5°	488.8	438.1	387.5	336.9	372.4	407.8	443.3	478.8	514.2	549.7	585.2
65°	452.6	399.9	347.2	294.5	331.8	369.1	406.5	443.8	481.1	518.4	555.8
67.5°	417.0	362.6	308.3	253.9	292.8	331.6	370.5	409.4	448.2	487.1	526.0
70°	380.1	323.9	267.7	211.5	251.9	292.3	332.7	373.1	413.5	453.9	494.3
72.5°	345.2	287.7	230.3	172.9	214.3	255.7	297.1	338.5	379.8	421.2	462.6
75°	311.3	253.0	194.7	136.4	178.8	221.2	263.5	305.9	348.3	390.7	433.0
77.5°	278.3	219.5	160.6	101.8	144.5	187.2	229.9	272.6	315.4	358.1	400.8
80°	247.1	188.1	129.2	70.2	112.9	155.6	198.3	241.0	283.7	326.4	369.1
82.5°	219.0	160.5	102.0	43.5	85.7	127.8	170.0	212.1	254.3	296.4	338.6
85°	194.0	136.3	78.5	20.8	62.2	103.6	145.0	186.4	227.7	269.1	310.5
87.5°	174.2	117.8	61.3	4.9	45.2	85.5	125.8	166.1	206.4	246.7	287.0
90°	162.4	108.2	54.1	0.0	38.5	77.1	115.6	154.1	192.7	231.2	269.7
92.5°	156.8	104.5	52.3	0.0	36.7	73.3	110.0	146.7	183.3	220.0	256.7
95°	150.9	100.6	50.3	0.0	34.9	69.8	104.7	139.6	174.6	209.5	244.4
97.5°	144.9	96.6	48.3	0.0	32.9	65.9	98.8	131.7	164.7	197.6	230.5
100°	138.3	92.2	46.1	0.0	31.0	61.9	92.9	123.8	154.8	185.7	216.7
102.5°	131.7	87.8	43.9	0.0	29.0	58.0	87.0	116.0	144.9	173.9	202.9
105°	124.5	83.0	41.5	0.0	27.0	54.0	81.0	108.0	135.1	162.1	189.1
107.5°	117.6	78.4	39.2	0.0	24.8	49.6	74.4	99.2	124.1	148.9	173.7
110°	110.0	73.3	36.7	0.0	22.8	45.7	68.5	91.3	114.2	137.0	159.8



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	102.8	68.5	34.3	0.0	20.9	41.7	62.6	83.4	104.3	125.1	146.0
115°	94.5	63.0	31.5	0.0	18.8	37.6	56.3	75.1	93.9	112.7	131.4
117.5°	86.6	57.8	28.9	0.0	16.9	33.8	50.7	67.6	84.6	101.5	118.4
120°	79.0	52.7	26.3	0.0	14.9	29.9	44.8	59.7	74.7	89.6	104.5
122.5°	70.8	47.2	23.6	0.0	13.1	26.1	39.2	52.3	65.3	78.4	91.5
125°	63.2	42.2	21.1	0.0	11.1	22.2	33.3	44.4	55.4	66.5	77.6
127.5°	55.7	37.1	18.6	0.0	9.0	18.0	27.0	36.0	45.0	54.0	63.0
130°	48.4	32.3	16.1	0.0	7.1	14.3	21.4	28.5	35.7	42.8	49.9
132.5°	41.5	27.7	13.8	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4
135°	34.6	23.1	11.5	0.0	4.1	8.1	12.2	16.3	20.3	24.4	28.5
137.5°	28.0	18.7	9.3	0.0	2.7	5.5	8.2	11.0	13.7	16.5	19.2
140°	19.8	13.2	6.6	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3
142.5°	14.5	9.7	4.8	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7
145°	10.2	6.8	3.4	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6
147.5°	7.6	5.0	2.5	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
150°	5.3	3.5	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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1075.3	1073.1	1072.7	1072.2	1071.8	1071.3	1070.9	1070.4	1070.0	1069.5	1069.1
5°	1065.9	1063.2	1062.5	1061.9	1061.2	1060.6	1059.9	1059.3	1058.6	1058.0	1057.3
7.5°	1055.4	1052.3	1051.8	1051.2	1050.7	1050.1	1049.6	1049.0	1048.5	1047.9	1047.4
10°	1041.8	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5
12.5°	1027.0	1023.7	1024.8	1025.9	1027.0	1028.1	1029.2	1030.3	1031.4	1032.5	1033.6
15°	1010.1	1006.9	1009.6	1012.4	1015.1	1017.9	1020.6	1023.4	1026.1	1028.9	1031.6
17.5°	992.0	989.1	994.5	999.9	1005.2	1010.6	1016.0	1021.4	1026.7	1032.1	1037.5
20°	974.7	972.3	981.0	989.7	998.3	1007.0	1015.7	1024.4	1033.0	1041.7	1050.4
22.5°	954.7	953.5	965.7	977.9	990.1	1002.3	1014.4	1026.6	1038.8	1051.0	1063.2
25°	935.2	934.8	950.4	966.0	981.6	997.2	1012.7	1028.3	1043.9	1059.5	1075.1
27.5°	916.0	917.0	935.8	954.5	973.3	992.1	1010.8	1029.6	1048.4	1067.1	1085.9
30°	898.2	901.2	922.7	944.2	965.7	987.2	1008.8	1030.3	1051.8	1073.3	1094.8
32.5°	881.0	886.3	910.2	934.2	958.1	982.1	1006.0	1030.0	1053.9	1077.9	1101.8
35°	864.7	872.5	898.5	924.5	950.6	976.6	1002.6	1028.6	1054.7	1080.7	1106.7
37.5°	847.2	857.7	885.9	914.1	942.3	970.5	998.8	1027.0	1055.2	1083.4	1111.6
40°	828.6	841.9	872.3	902.7	933.1	963.5	994.0	1024.4	1054.8	1085.2	1115.6
42.5°	808.3	824.1	856.9	889.7	922.6	955.4	988.2	1021.0	1053.9	1086.7	1119.5
45°	787.7	806.3	841.3	876.3	911.4	946.4	981.4	1016.4	1051.5	1086.5	1121.5
47.5°	766.3	787.5	824.7	861.9	899.2	936.4	973.6	1010.8	1048.1	1085.3	1122.5
50°	745.0	768.8	808.1	847.4	886.7	926.0	965.3	1004.6	1043.9	1083.2	1122.5
52.5°	721.8	748.0	789.5	831.0	872.5	914.0	955.5	997.0	1038.5	1080.0	1121.5
55°	696.8	725.3	769.2	813.1	857.0	900.9	944.9	988.8	1032.7	1076.6	1120.5
57.5°	672.7	703.5	749.6	795.7	841.9	888.0	934.1	980.2	1026.4	1072.5	1118.6
60°	646.3	679.8	728.4	777.1	825.7	874.4	923.0	971.7	1020.3	1069.0	1117.6
62.5°	620.6	656.1	707.0	758.0	808.9	859.9	910.8	961.8	1012.7	1063.7	1114.6
65°	593.1	630.4	683.7	736.9	790.2	843.4	896.7	949.9	1003.2	1056.4	1109.7
67.5°	564.8	603.7	659.0	714.4	769.7	825.1	880.4	935.8	991.1	1046.5	1101.8
70°	534.7	575.1	632.0	688.8	745.7	802.6	859.4	916.3	973.2	1030.0	1086.9
72.5°	504.0	545.4	603.0	660.7	718.3	776.0	833.6	891.3	948.9	1006.6	1064.2
75°	475.4	517.8	575.1	632.4	689.7	747.0	804.4	861.7	919.0	976.3	1033.6
77.5°	443.5	486.2	542.7	599.3	655.8	712.3	768.9	825.4	881.9	938.5	995.0
80°	411.8	454.5	509.6	564.7	619.9	675.0	730.1	785.2	840.4	895.5	950.6
82.5°	380.7	422.9	476.5	530.1	583.6	637.2	690.8	744.4	797.9	851.5	905.1
85°	351.9	393.3	445.2	497.2	549.1	601.0	653.0	704.9	756.8	808.8	860.7
87.5°	327.3	367.6	417.9	468.2	518.4	568.7	619.0	669.3	719.5	769.8	820.1
90°	308.3	346.8	395.6	444.3	493.1	541.8	590.6	639.3	688.1	736.8	785.6
92.5°	293.3	330.0	377.3	424.6	472.0	519.3	566.6	613.9	661.3	708.6	755.9
95°	279.3	314.2	360.3	406.4	452.5	498.6	544.8	590.9	637.0	683.1	729.2
97.5°	263.5	296.4	341.4	386.4	431.5	476.5	521.5	566.5	611.6	656.6	701.6
100°	247.6	278.6	322.5	366.4	410.4	454.3	498.2	542.1	586.1	630.0	673.9
102.5°	231.9	260.9	303.9	347.0	390.0	433.0	476.1	519.1	562.1	605.2	648.2
105°	216.1	243.1	284.9	326.8	368.6	410.4	452.3	494.1	535.9	577.8	619.6
107.5°	198.5	223.3	264.1	305.0	345.8	386.7	427.5	468.4	509.2	550.1	590.9
110°	182.7	205.5	245.0	284.6	324.1	363.6	403.2	442.7	482.2	521.8	561.3



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	166.8	187.7	225.9	264.1	302.3	340.5	378.8	417.0	455.2	493.4	531.6
115°	150.2	169.0	205.9	242.8	279.7	316.6	353.4	390.3	427.2	464.1	501.0
117.5°	135.3	152.2	187.5	222.9	258.2	293.6	328.9	364.3	399.6	435.0	470.3
120°	119.5	134.4	168.2	202.0	235.8	269.6	303.5	337.3	371.1	404.9	438.7
122.5°	104.5	117.6	149.7	181.7	213.8	245.8	277.9	309.9	342.0	374.0	406.1
125°	88.7	99.8	130.1	160.4	190.7	221.0	251.3	281.6	311.9	342.2	372.5
127.5°	72.0	81.0	109.4	137.9	166.3	194.7	223.2	251.6	280.0	308.5	336.9
130°	57.1	64.2	90.0	115.8	141.6	167.4	193.2	219.0	244.8	270.6	296.4
132.5°	43.9	49.4	72.5	95.5	118.6	141.6	164.7	187.7	210.8	233.8	256.9
135°	32.5	36.6	56.8	77.0	97.2	117.4	137.6	157.8	178.0	198.2	218.4
137.5°	22.0	24.7	42.4	60.1	77.7	95.4	113.1	130.8	148.4	166.1	183.8
140°	14.0	15.8	31.1	46.3	61.6	76.9	92.1	107.4	122.7	137.9	153.2
142.5°	8.8	9.9	22.6	35.4	48.1	60.8	73.6	86.3	99.0	111.8	124.5
145°	5.2	5.9	15.9	25.9	35.9	45.9	55.8	65.8	75.8	85.8	95.8
147.5°	2.7	3.0	10.7	18.4	26.0	33.7	41.4	49.1	56.7	64.4	72.1
150°	1.8	2.0	7.4	12.8	18.1	23.5	28.9	34.3	39.6	45.0	50.4
152.5°	0.0	0.0	3.6	7.2	10.9	14.5	18.1	21.7	25.4	29.0	32.6
155°	0.0	0.0	2.0	4.0	5.9	7.9	9.9	11.9	13.8	15.8	17.8
157.5°	0.0	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.9
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: P201366

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1068.3	1067.6	1066.8	1066.0	1065.3	1064.5	1063.7	1063.0	1062.2	1061.1	1060.0
5°	1056.5	1055.8	1055.0	1054.2	1053.5	1052.7	1051.9	1051.2	1050.4	1050.1	1049.7
7.5°	1047.2	1047.0	1046.7	1046.5	1046.3	1046.1	1045.8	1045.6	1045.4	1045.3	1045.2
10°	1039.5	1040.5	1041.5	1042.5	1043.4	1044.4	1045.4	1046.4	1047.4	1047.4	1047.4
12.5°	1036.1	1038.6	1041.2	1043.7	1046.2	1048.7	1051.3	1053.8	1056.3	1057.3	1058.3
15°	1036.8	1041.9	1047.1	1052.2	1057.4	1062.5	1067.7	1072.8	1078.0	1080.3	1082.6
17.5°	1045.2	1052.9	1060.6	1068.3	1075.9	1083.6	1091.3	1099.0	1106.7	1109.4	1112.2
20°	1059.5	1068.6	1077.7	1086.8	1096.0	1105.1	1114.2	1123.3	1132.4	1135.8	1139.2
22.5°	1073.7	1084.3	1094.8	1105.4	1115.9	1126.5	1137.0	1147.6	1158.1	1162.0	1166.0
25°	1087.3	1099.5	1111.7	1123.9	1136.0	1148.2	1160.4	1172.6	1184.8	1189.0	1193.1
27.5°	1099.2	1112.5	1125.8	1139.1	1152.3	1165.6	1178.9	1192.2	1205.5	1210.7	1215.8
30°	1109.7	1124.7	1139.6	1154.5	1169.5	1184.4	1199.3	1214.3	1229.2	1235.0	1240.8
32.5°	1118.4	1135.0	1151.5	1168.1	1184.7	1201.3	1217.8	1234.4	1251.0	1257.7	1264.4
35°	1125.1	1143.6	1162.0	1180.5	1198.9	1217.4	1235.8	1254.3	1272.7	1280.3	1287.9
37.5°	1131.8	1152.0	1172.2	1192.4	1212.6	1232.8	1253.0	1273.2	1293.4	1302.0	1310.5
40°	1137.8	1160.0	1182.1	1204.3	1226.5	1248.7	1270.8	1293.0	1315.2	1324.8	1334.3
42.5°	1143.7	1167.8	1192.0	1216.1	1240.3	1264.4	1288.6	1312.7	1336.9	1347.6	1358.2
45°	1148.0	1174.4	1200.9	1227.4	1253.8	1280.3	1306.8	1333.2	1359.7	1371.4	1383.2
47.5°	1151.6	1180.7	1209.8	1238.9	1268.0	1297.1	1326.2	1355.3	1384.4	1397.2	1410.1
50°	1154.2	1186.0	1217.7	1249.4	1281.2	1312.9	1344.6	1376.4	1408.1	1422.3	1436.4
52.5°	1156.1	1190.7	1225.3	1259.9	1294.4	1329.0	1363.6	1398.2	1432.8	1448.2	1463.5
55°	1157.8	1195.2	1232.5	1269.8	1307.2	1344.5	1381.8	1419.2	1456.5	1472.9	1489.2
57.5°	1158.6	1198.5	1238.5	1278.4	1318.4	1358.3	1398.3	1438.2	1478.2	1495.0	1511.8
60°	1159.8	1201.9	1244.1	1286.2	1328.4	1370.5	1412.7	1454.8	1497.0	1514.6	1532.1
62.5°	1158.6	1202.6	1246.7	1290.7	1334.7	1378.7	1422.8	1466.8	1510.8	1528.5	1546.2
65°	1155.1	1200.6	1246.0	1291.5	1336.9	1382.4	1427.8	1473.3	1518.7	1536.6	1554.5
67.5°	1148.1	1194.4	1240.8	1287.1	1333.4	1379.7	1426.1	1472.4	1518.7	1536.4	1554.1
70°	1133.7	1180.5	1227.2	1274.0	1320.8	1367.6	1414.3	1461.1	1507.9	1525.5	1543.0
72.5°	1110.6	1157.1	1203.5	1250.0	1296.4	1342.9	1389.3	1435.8	1482.2	1499.4	1516.7
75°	1079.3	1124.9	1170.6	1216.3	1261.9	1307.6	1353.3	1398.9	1444.6	1460.7	1476.9
77.5°	1039.4	1083.7	1128.1	1172.4	1216.8	1261.1	1305.5	1349.8	1394.2	1410.0	1425.8
80°	993.6	1036.7	1079.7	1122.7	1165.8	1208.8	1251.8	1294.9	1337.9	1353.3	1368.7
82.5°	946.6	988.1	1029.6	1071.1	1112.6	1154.1	1195.6	1237.1	1278.6	1293.8	1308.9
85°	900.7	940.6	980.6	1020.5	1060.5	1100.4	1140.4	1180.3	1220.3	1234.9	1249.5
87.5°	858.5	897.0	935.4	973.8	1012.3	1050.7	1089.1	1127.6	1166.0	1180.4	1194.8
90°	822.6	859.6	896.6	933.6	970.6	1007.6	1044.6	1081.6	1118.6	1132.4	1146.3
92.5°	791.7	827.5	863.3	899.1	934.8	970.6	1006.4	1042.2	1078.0	1091.1	1104.1
95°	763.6	797.9	832.3	866.7	901.0	935.4	969.8	1004.1	1038.5	1051.2	1064.0
97.5°	735.1	768.6	802.0	835.5	869.0	902.5	935.9	969.4	1002.9	1015.1	1027.3
100°	706.6	739.3	772.1	804.8	837.5	870.2	903.0	935.7	968.4	980.1	991.9
102.5°	679.9	711.7	743.4	775.1	806.9	838.6	870.3	902.1	933.8	945.3	956.8
105°	650.6	681.5	712.5	743.4	774.4	805.3	836.3	867.2	898.2	909.5	920.8
107.5°	621.1	651.3	681.5	711.7	741.8	772.0	802.2	832.4	862.6	873.6	884.6
110°	590.6	619.9	649.2	678.5	707.9	737.2	766.5	795.8	825.1	835.7	846.4



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	559.9	588.2	616.6	644.9	673.2	701.5	729.9	758.2	786.5	796.8	807.1
115°	528.3	555.7	583.0	610.3	637.7	665.0	692.3	719.7	747.0	757.0	767.0
117.5°	496.5	522.8	549.0	575.3	601.5	627.8	654.0	680.3	706.5	716.3	726.0
120°	464.1	489.4	514.8	540.2	565.5	590.9	616.3	641.6	667.0	676.4	685.9
122.5°	430.4	454.6	478.9	503.2	527.4	551.7	576.0	600.2	624.5	633.6	642.7
125°	395.9	419.3	442.7	466.1	489.4	512.8	536.2	559.6	583.0	591.7	600.4
127.5°	359.4	381.9	404.4	426.9	449.5	472.0	494.5	517.0	539.5	547.8	556.2
130°	318.6	340.8	362.9	385.1	407.3	429.5	451.6	473.8	496.0	504.0	512.0
132.5°	278.4	299.9	321.5	343.0	364.5	386.0	407.6	429.1	450.6	458.2	465.8
135°	239.4	260.3	281.3	302.3	323.2	344.2	365.2	386.1	407.1	414.0	420.9
137.5°	203.5	223.1	242.8	262.4	282.1	301.7	321.4	341.0	360.7	367.6	374.5
140°	170.8	188.3	205.9	223.5	241.0	258.6	276.2	293.7	311.3	318.8	326.2
142.5°	139.9	155.2	170.6	186.0	201.3	216.7	232.1	247.4	262.8	270.6	278.4
145°	109.1	122.4	135.7	149.0	162.2	175.5	188.8	202.1	215.4	223.5	231.6
147.5°	83.4	94.7	106.0	117.3	128.7	140.0	151.3	162.6	173.9	181.9	189.9
150°	59.8	69.3	78.7	88.2	97.6	107.1	116.5	126.0	135.4	142.8	150.1
152.5°	40.2	47.8	55.3	62.9	70.5	78.1	85.6	93.2	100.8	107.6	114.4
155°	23.6	29.4	35.3	41.1	46.9	52.7	58.6	64.4	70.2	76.0	81.8
157.5°	11.9	15.8	19.8	23.7	27.7	31.6	35.6	39.5	43.5	48.3	53.2
160°	4.3	6.6	8.9	11.2	13.5	15.8	18.1	20.4	22.7	26.1	29.5
162.5°	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.9	9.9	11.9
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: P201366

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1058.9	1057.8	1056.7	1055.6	1054.5	1053.4	1052.3	1053.2	1054.1	1055.0	1055.9
5°	1049.4	1049.1	1048.7	1048.4	1048.1	1047.7	1047.4	1047.5	1047.6	1047.7	1047.8
7.5°	1045.1	1045.0	1044.8	1044.7	1044.6	1044.5	1044.4	1044.2	1044.0	1043.8	1043.6
10°	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1046.6	1045.9	1045.1	1044.3
12.5°	1059.3	1060.3	1061.2	1062.2	1063.2	1064.2	1065.2	1063.4	1061.7	1059.9	1058.2
15°	1084.9	1087.2	1089.6	1091.9	1094.2	1096.5	1098.8	1096.1	1093.3	1090.6	1087.8
17.5°	1114.9	1117.7	1120.4	1123.2	1125.9	1128.7	1131.4	1128.3	1125.2	1122.2	1119.1
20°	1142.6	1146.0	1149.4	1152.8	1156.2	1159.6	1163.0	1159.2	1155.3	1151.5	1147.6
22.5°	1169.9	1173.9	1177.8	1181.8	1185.7	1189.7	1193.6	1188.9	1184.2	1179.5	1174.8
25°	1197.3	1201.5	1205.6	1209.8	1214.0	1218.1	1222.3	1217.1	1212.0	1206.8	1201.7
27.5°	1221.0	1226.1	1231.3	1236.4	1241.6	1246.7	1251.9	1246.2	1240.5	1234.8	1229.1
30°	1246.7	1252.5	1258.3	1264.1	1270.0	1275.8	1281.6	1275.1	1268.6	1262.2	1255.7
32.5°	1271.1	1277.8	1284.4	1291.1	1297.8	1304.5	1311.2	1304.0	1296.7	1289.5	1282.2
35°	1295.4	1303.0	1310.6	1318.2	1325.7	1333.3	1340.9	1333.0	1325.1	1317.2	1309.3
37.5°	1319.1	1327.7	1336.2	1344.8	1353.4	1361.9	1370.5	1361.8	1353.2	1344.5	1335.8
40°	1343.9	1353.4	1363.0	1372.5	1382.1	1391.6	1401.2	1391.6	1382.1	1372.5	1363.0
42.5°	1368.9	1379.5	1390.2	1400.8	1411.5	1422.1	1432.8	1422.6	1412.4	1402.2	1392.0
45°	1394.9	1406.7	1418.4	1430.2	1441.9	1453.7	1465.4	1454.1	1442.8	1431.5	1420.2
47.5°	1422.9	1435.8	1448.6	1461.5	1474.3	1487.2	1500.0	1487.7	1475.4	1463.1	1450.8
50°	1450.6	1464.7	1478.9	1493.0	1507.2	1521.3	1535.5	1522.2	1508.9	1495.7	1482.4
52.5°	1478.9	1494.3	1509.6	1525.0	1540.4	1555.7	1571.1	1556.7	1542.3	1528.0	1513.6
55°	1505.6	1521.9	1538.3	1554.6	1571.0	1587.3	1603.7	1588.6	1573.4	1558.3	1543.1
57.5°	1528.6	1545.4	1562.2	1579.0	1595.8	1612.6	1629.4	1614.0	1598.7	1583.3	1567.9
60°	1549.7	1567.3	1584.8	1602.4	1620.0	1637.5	1655.1	1639.2	1623.3	1607.3	1591.4
62.5°	1563.8	1581.5	1599.2	1616.9	1634.5	1652.2	1669.9	1654.0	1638.1	1622.1	1606.2
65°	1572.4	1590.3	1608.2	1626.1	1644.0	1661.9	1679.8	1663.8	1647.7	1631.7	1615.7
67.5°	1571.7	1589.4	1607.1	1624.8	1642.4	1660.1	1677.8	1662.0	1646.2	1630.4	1614.6
70°	1560.6	1578.2	1595.7	1613.3	1630.9	1648.4	1666.0	1650.2	1634.4	1618.6	1602.8
72.5°	1533.9	1551.1	1568.4	1585.6	1602.8	1620.1	1637.3	1621.8	1606.3	1590.9	1575.4
75°	1493.0	1509.2	1525.3	1541.5	1557.6	1573.8	1589.9	1575.4	1560.9	1546.4	1531.9
77.5°	1441.6	1457.4	1473.3	1489.1	1504.9	1520.7	1536.5	1521.8	1507.1	1492.4	1477.7
80°	1384.0	1399.4	1414.8	1430.2	1445.5	1460.9	1476.3	1461.9	1447.5	1433.1	1418.7
82.5°	1324.1	1339.2	1354.4	1369.5	1384.7	1399.8	1415.0	1400.6	1386.2	1371.8	1357.4
85°	1264.1	1278.7	1293.3	1307.9	1322.5	1337.1	1351.7	1337.8	1323.8	1309.9	1296.0
87.5°	1209.1	1223.5	1237.9	1252.3	1266.6	1281.0	1295.4	1282.1	1268.8	1255.6	1242.3
90°	1160.1	1173.9	1187.8	1201.6	1215.4	1229.3	1243.1	1230.2	1217.4	1204.5	1191.7
92.5°	1117.2	1130.3	1143.3	1156.4	1169.5	1182.5	1195.6	1183.3	1171.0	1158.7	1146.4
95°	1076.7	1089.4	1102.2	1114.9	1127.6	1140.4	1153.1	1141.2	1129.4	1117.5	1105.7
97.5°	1039.5	1051.7	1063.8	1076.0	1088.2	1100.4	1112.6	1101.2	1089.8	1078.4	1067.0
100°	1003.6	1015.4	1027.1	1038.9	1050.6	1062.4	1074.1	1062.9	1051.7	1040.5	1029.3
102.5°	968.4	979.9	991.4	1002.9	1014.5	1026.0	1037.5	1026.5	1015.5	1004.6	993.6
105°	932.1	943.4	954.8	966.1	977.4	988.7	1000.0	989.2	978.5	967.7	956.9
107.5°	895.5	906.5	917.5	928.5	939.4	950.4	961.4	950.9	940.3	929.8	919.3
110°	857.0	867.7	878.3	889.0	899.6	910.3	920.9	910.6	900.3	889.9	879.6



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	817.5	827.8	838.1	848.4	858.8	869.1	879.4	869.3	859.2	849.1	839.0
115°	777.0	787.0	796.9	806.9	816.9	826.9	836.9	827.1	817.4	807.6	797.8
117.5°	735.8	745.6	755.3	765.1	774.9	784.6	794.4	785.1	775.8	766.4	757.1
120°	695.3	704.8	714.2	723.7	733.1	742.6	752.0	743.0	734.0	725.0	716.0
122.5°	651.8	660.9	670.1	679.2	688.3	697.4	706.5	697.9	689.4	680.8	672.2
125°	609.0	617.7	626.4	635.1	643.7	652.4	661.1	653.0	644.8	636.7	628.6
127.5°	564.5	572.9	581.2	589.6	597.9	606.3	614.6	606.9	599.2	591.5	583.8
130°	520.1	528.1	536.1	544.1	552.2	560.2	568.2	560.8	553.5	546.1	538.8
132.5°	473.3	480.9	488.5	496.1	503.6	511.2	518.8	511.9	505.0	498.0	491.1
135°	427.9	434.8	441.7	448.6	455.6	462.5	469.4	463.4	457.3	451.3	445.2
137.5°	381.4	388.3	395.3	402.2	409.1	416.0	422.9	417.3	411.7	406.1	400.5
140°	333.7	341.1	348.6	356.0	363.5	370.9	378.4	373.2	368.1	362.9	357.8
142.5°	286.2	294.0	301.8	309.6	317.4	325.2	333.0	328.3	323.6	318.8	314.1
145°	239.8	247.9	256.0	264.1	272.3	280.4	288.5	284.3	280.2	276.0	271.8
147.5°	197.9	205.9	214.0	222.0	230.0	238.0	246.0	242.1	238.1	234.2	230.2
150°	157.5	164.8	172.2	179.5	186.9	194.2	201.6	198.4	195.2	192.0	188.8
152.5°	121.2	128.0	134.9	141.7	148.5	155.3	162.1	159.2	156.4	153.5	150.7
155°	87.6	93.4	99.3	105.1	110.9	116.7	122.5	120.2	117.9	115.6	113.3
157.5°	58.0	62.8	67.7	72.5	77.3	82.2	87.0	85.1	83.3	81.4	79.5
160°	32.9	36.3	39.8	43.2	46.6	50.0	53.4	52.1	50.8	49.4	48.1
162.5°	13.8	15.8	17.8	19.8	21.7	23.7	25.7	25.0	24.4	23.7	23.1
165°	3.0	4.0	4.9	5.9	6.9	7.9	8.9	8.8	8.7	8.6	8.5
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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1056.7	1057.6	1058.5	1059.4	1060.3	1061.6	1062.9	1064.2	1065.5	1066.9	1068.2
5°	1048.0	1048.1	1048.2	1048.3	1048.4	1049.7	1051.0	1052.4	1053.7	1055.0	1056.3
7.5°	1043.3	1043.1	1042.9	1042.7	1042.5	1043.4	1044.3	1045.1	1046.0	1046.9	1047.8
10°	1043.6	1042.8	1042.0	1041.3	1040.5	1040.8	1041.2	1041.5	1041.8	1042.2	1042.5
12.5°	1056.4	1054.7	1052.9	1051.2	1049.4	1048.3	1047.2	1046.1	1045.0	1043.9	1042.8
15°	1085.1	1082.3	1079.6	1076.8	1074.1	1070.1	1066.2	1062.2	1058.3	1054.3	1050.4
17.5°	1116.0	1112.9	1109.9	1106.8	1103.7	1097.0	1090.3	1083.6	1076.9	1070.3	1063.6
20°	1143.8	1139.9	1136.1	1132.2	1128.4	1120.4	1112.4	1104.4	1096.4	1088.3	1080.3
22.5°	1170.0	1165.3	1160.6	1155.9	1151.2	1142.0	1132.8	1123.5	1114.3	1105.1	1095.9
25°	1196.5	1191.4	1186.2	1181.1	1175.9	1165.1	1154.4	1143.6	1132.8	1122.1	1111.3
27.5°	1223.4	1217.7	1212.0	1206.3	1200.6	1188.2	1175.8	1163.4	1151.0	1138.5	1126.1
30°	1249.2	1242.7	1236.3	1229.8	1223.3	1209.2	1195.2	1181.1	1167.1	1153.0	1139.0
32.5°	1275.0	1267.7	1260.5	1253.2	1246.0	1230.1	1214.2	1198.2	1182.3	1166.4	1150.5
35°	1301.3	1293.4	1285.5	1277.6	1269.7	1251.9	1234.1	1216.4	1198.6	1180.8	1163.0
37.5°	1327.2	1318.5	1309.8	1301.2	1292.5	1273.0	1253.4	1233.9	1214.3	1194.8	1175.2
40°	1353.4	1343.9	1334.3	1324.8	1315.2	1293.8	1272.4	1251.0	1229.6	1208.1	1186.7
42.5°	1381.7	1371.5	1361.3	1351.1	1340.9	1317.2	1293.5	1269.7	1246.0	1222.3	1198.6
45°	1408.8	1397.5	1386.2	1374.9	1363.6	1337.8	1312.0	1286.2	1260.4	1234.6	1208.8
47.5°	1438.5	1426.2	1413.9	1401.6	1389.3	1360.9	1332.4	1304.0	1275.6	1247.1	1218.7
50°	1469.1	1455.8	1442.6	1429.3	1416.0	1384.7	1353.4	1322.1	1290.8	1259.6	1228.3
52.5°	1499.2	1484.8	1470.5	1456.1	1441.7	1407.7	1373.6	1339.6	1305.5	1271.5	1237.4
55°	1528.0	1512.8	1497.7	1482.5	1467.4	1430.5	1393.6	1356.7	1319.8	1282.9	1246.0
57.5°	1552.6	1537.2	1521.8	1506.5	1491.1	1451.6	1412.0	1372.5	1333.0	1293.4	1253.9
60°	1575.5	1559.6	1543.6	1527.7	1511.8	1470.0	1428.1	1386.3	1344.5	1302.6	1260.8
62.5°	1590.3	1574.4	1558.4	1542.5	1526.6	1482.9	1439.2	1395.5	1351.8	1308.2	1264.5
65°	1599.6	1583.6	1567.6	1551.5	1535.5	1490.3	1445.0	1399.8	1354.6	1309.3	1264.1
67.5°	1598.7	1582.9	1567.1	1551.3	1535.5	1489.4	1443.3	1397.2	1351.1	1304.9	1258.8
70°	1586.9	1571.1	1555.3	1539.5	1523.7	1477.3	1430.8	1384.4	1337.9	1291.5	1245.0
72.5°	1559.9	1544.4	1529.0	1513.5	1498.0	1451.8	1405.6	1359.3	1313.1	1266.9	1220.7
75°	1517.5	1503.0	1488.5	1474.0	1459.5	1414.0	1368.6	1323.1	1277.7	1232.2	1186.8
77.5°	1462.9	1448.2	1433.5	1418.8	1404.1	1360.5	1316.9	1273.3	1229.7	1186.2	1142.6
80°	1404.4	1390.0	1375.6	1361.2	1346.8	1304.4	1262.0	1219.7	1177.3	1134.9	1092.5
82.5°	1343.1	1328.7	1314.3	1299.9	1285.5	1244.7	1203.8	1163.0	1122.2	1081.3	1040.5
85°	1282.0	1268.1	1254.2	1240.2	1226.3	1186.9	1147.5	1108.0	1068.6	1029.2	989.8
87.5°	1229.0	1215.7	1202.5	1189.2	1175.9	1137.5	1099.0	1060.6	1022.2	983.7	945.3
90°	1178.8	1166.0	1153.1	1140.3	1127.4	1090.6	1053.8	1017.1	980.3	943.5	906.7
92.5°	1134.2	1121.9	1109.6	1097.3	1085.0	1049.8	1014.5	979.3	944.0	908.8	873.5
95°	1093.8	1082.0	1070.1	1058.3	1046.4	1012.4	978.3	944.3	910.3	876.2	842.2
97.5°	1055.5	1044.1	1032.7	1021.3	1009.9	976.8	943.8	910.7	877.7	844.6	811.6
100°	1018.1	1006.9	995.7	984.5	973.3	941.1	909.0	876.8	844.6	812.5	780.3
102.5°	982.6	971.6	960.7	949.7	938.7	907.2	875.7	844.2	812.7	781.1	749.6
105°	946.2	935.4	924.6	913.9	903.1	872.5	841.9	811.2	780.6	750.0	719.4
107.5°	908.7	898.2	887.7	877.1	866.6	837.0	807.3	777.7	748.0	718.4	688.7
110°	869.3	859.0	848.6	838.3	828.0	799.6	771.1	742.7	714.3	685.8	657.4



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	828.9	818.8	808.7	798.6	788.5	761.2	733.8	706.5	679.2	651.8	624.5
115°	788.1	778.3	768.5	758.8	749.0	722.6	696.3	669.9	643.6	617.2	590.9
117.5°	747.8	738.5	729.1	719.8	710.5	685.1	659.8	634.4	609.0	583.7	558.3
120°	706.9	697.9	688.9	679.9	670.9	646.4	621.9	597.5	573.0	548.5	524.0
122.5°	663.7	655.1	646.5	638.0	629.4	605.8	582.2	558.6	535.0	511.4	487.8
125°	620.4	612.3	604.2	596.0	587.9	565.2	542.5	519.7	497.0	474.3	451.6
127.5°	576.2	568.5	560.8	553.1	545.4	523.8	502.2	480.5	458.9	437.3	415.7
130°	531.4	524.1	516.7	509.4	502.0	481.7	461.4	441.1	420.8	400.4	380.1
132.5°	484.2	477.3	470.3	463.4	456.5	437.7	418.9	400.2	381.4	362.6	343.8
135°	439.2	433.1	427.1	421.0	415.0	397.4	379.9	362.3	344.7	327.2	309.6
137.5°	394.9	389.3	383.7	378.1	372.5	355.9	339.3	322.8	306.2	289.6	273.0
140°	352.6	347.5	342.3	337.2	332.0	316.5	301.0	285.6	270.1	254.6	239.1
142.5°	309.4	304.7	299.9	295.2	290.5	276.4	262.4	248.3	234.3	220.2	206.2
145°	267.7	263.5	259.3	255.2	251.0	238.3	225.5	212.8	200.1	187.3	174.6
147.5°	226.3	222.3	218.4	214.4	210.5	199.3	188.1	176.9	165.7	154.5	143.3
150°	185.7	182.5	179.3	176.1	172.9	163.0	153.1	143.3	133.4	123.5	113.6
152.5°	147.8	145.0	142.1	139.3	136.4	127.9	119.5	111.0	102.6	94.1	85.7
155°	111.0	108.7	106.4	104.1	101.8	94.9	88.0	81.0	74.1	67.2	60.3
157.5°	77.7	75.8	73.9	72.1	70.2	64.8	59.4	54.0	48.6	43.3	37.9
160°	46.8	45.5	44.1	42.8	41.5	38.2	34.9	31.6	28.3	25.1	21.8
162.5°	22.4	21.8	21.1	20.5	19.8	18.3	16.7	15.2	13.6	12.1	10.5
165°	8.3	8.2	8.1	8.0	7.9	7.4	6.8	6.3	5.7	5.2	4.6
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: P201366

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1069.5	1070.8	1072.1	1072.2	1072.3	1072.4	1072.5	1072.7	1072.8	1072.9	1073.0
5°	1057.7	1059.0	1060.3	1060.6	1060.9	1061.3	1061.6	1061.9	1062.2	1062.6	1062.9
7.5°	1048.6	1049.5	1050.4	1050.5	1050.6	1050.7	1050.8	1051.0	1051.1	1051.2	1051.3
10°	1042.8	1043.2	1043.5	1042.7	1041.9	1041.2	1040.4	1039.6	1038.8	1038.1	1037.3
12.5°	1041.7	1040.6	1039.5	1037.4	1035.3	1033.2	1031.1	1029.1	1027.0	1024.9	1022.8
15°	1046.4	1042.5	1038.5	1034.8	1031.0	1027.3	1023.6	1019.8	1016.1	1012.4	1008.6
17.5°	1056.9	1050.2	1043.5	1037.2	1031.0	1024.7	1018.4	1012.2	1005.9	999.6	993.4
20°	1072.3	1064.3	1056.3	1046.5	1036.8	1027.0	1017.2	1007.5	997.7	987.9	978.2
22.5°	1086.6	1077.4	1068.2	1055.1	1042.1	1029.0	1015.9	1002.9	989.8	976.7	963.7
25°	1100.5	1089.8	1079.0	1062.6	1046.3	1029.9	1013.6	997.2	980.9	964.5	948.2
27.5°	1113.7	1101.3	1088.9	1069.5	1050.0	1030.6	1011.2	991.7	972.3	952.9	933.4
30°	1124.9	1110.9	1096.8	1074.7	1052.7	1030.6	1008.5	986.5	964.4	942.3	920.3
32.5°	1134.5	1118.6	1102.7	1078.6	1054.4	1030.3	1006.1	982.0	957.8	933.7	909.5
35°	1145.3	1127.5	1109.7	1083.2	1056.8	1030.3	1003.8	977.4	950.9	924.4	898.0
37.5°	1155.7	1136.1	1116.6	1087.8	1059.1	1030.3	1001.5	972.8	944.0	915.2	886.5
40°	1165.3	1143.9	1122.5	1091.5	1060.6	1029.6	998.7	967.7	936.8	905.8	874.9
42.5°	1174.8	1151.1	1127.4	1094.1	1060.9	1027.6	994.3	961.1	927.8	894.5	861.3
45°	1183.0	1157.2	1131.4	1095.8	1060.2	1024.7	989.1	953.5	917.9	882.4	846.8
47.5°	1190.3	1161.8	1133.4	1095.7	1058.1	1020.4	982.7	945.1	907.4	869.7	832.1
50°	1197.0	1165.7	1134.4	1094.5	1054.7	1014.8	975.0	935.1	895.3	855.4	815.6
52.5°	1203.4	1169.3	1135.3	1093.0	1050.8	1008.5	966.2	924.0	881.7	839.4	797.2
55°	1209.1	1172.2	1135.3	1090.7	1046.2	1001.6	957.0	912.5	867.9	823.3	778.8
57.5°	1214.4	1174.8	1135.3	1088.4	1041.5	994.7	947.8	900.9	854.0	807.2	760.3
60°	1219.0	1177.1	1135.3	1086.0	1036.7	987.4	938.1	888.9	839.6	790.3	741.0
62.5°	1220.8	1177.1	1133.4	1081.8	1030.2	978.6	927.0	875.4	823.8	772.2	720.6
65°	1218.9	1173.6	1128.4	1074.6	1020.8	967.0	913.2	859.5	805.7	751.9	698.1
67.5°	1212.7	1166.6	1120.5	1064.6	1008.7	952.9	897.0	841.1	785.2	729.4	673.5
70°	1198.6	1152.1	1105.7	1048.4	991.1	933.8	876.5	819.1	761.8	704.5	647.2
72.5°	1174.4	1128.2	1082.0	1024.4	966.7	909.1	851.4	793.8	736.1	678.5	620.8
75°	1141.3	1095.9	1050.4	992.4	934.4	876.5	818.5	760.5	702.5	644.6	586.6
77.5°	1099.0	1055.4	1011.8	954.8	897.8	840.9	783.9	726.9	669.9	613.0	556.0
80°	1050.2	1007.8	965.4	910.1	854.7	799.4	744.1	688.7	633.4	578.1	522.7
82.5°	999.7	958.8	918.0	864.5	811.0	757.6	704.1	650.6	597.1	543.7	490.2
85°	950.3	910.9	871.5	819.9	768.3	716.7	665.1	613.5	561.9	510.3	458.7
87.5°	906.9	868.4	830.0	780.0	730.1	680.1	630.2	580.2	530.3	480.3	430.4
90°	870.0	833.2	796.4	748.0	699.6	651.2	602.8	554.3	505.9	457.5	409.1
92.5°	838.3	803.0	767.8	720.8	673.8	626.8	579.8	532.9	485.9	438.9	391.9
95°	808.2	774.1	740.1	694.3	648.5	602.8	557.0	511.2	465.4	419.7	373.9
97.5°	778.5	745.5	712.4	667.8	623.3	578.7	534.1	489.6	445.0	400.4	355.9
100°	748.1	716.0	683.8	640.4	597.1	553.7	510.3	467.0	423.6	380.2	336.9
102.5°	718.1	686.6	655.1	612.9	570.8	528.6	486.5	444.3	402.2	360.0	317.9
105°	688.7	658.1	627.5	586.2	544.9	503.6	462.3	421.1	379.8	338.5	297.2
107.5°	659.1	629.4	599.8	559.6	519.4	479.2	439.0	398.9	358.7	318.5	278.3
110°	629.0	600.5	572.1	532.8	493.5	454.2	414.9	375.6	336.3	297.0	257.7



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	597.2	569.8	542.5	504.4	466.3	428.2	390.1	352.0	313.9	275.8	237.7
115°	564.5	538.2	511.8	475.1	438.5	401.8	365.1	328.5	291.8	255.1	218.5
117.5°	532.9	507.6	482.2	446.8	411.5	376.1	340.8	305.4	270.1	234.7	199.4
120°	499.6	475.1	450.6	416.9	383.2	349.5	315.8	282.0	248.3	214.6	180.9
122.5°	464.2	440.6	417.0	384.9	352.9	320.8	288.8	256.7	224.7	192.6	160.6
125°	428.8	406.1	383.4	353.3	323.2	293.1	263.0	233.0	202.9	172.8	142.7
127.5°	394.0	372.4	350.8	322.6	294.4	266.1	237.9	209.7	181.5	153.2	125.0
130°	359.8	339.5	319.2	292.7	266.3	239.8	213.3	186.9	160.4	133.9	107.5
132.5°	325.1	306.3	287.5	262.9	238.3	213.7	189.1	164.6	140.0	115.4	90.8
135°	292.0	274.5	256.9	234.3	211.7	189.1	166.5	143.8	121.2	98.6	76.0
137.5°	256.5	239.9	223.3	203.0	182.7	162.4	142.1	121.7	101.4	81.1	60.8
140°	223.7	208.2	192.7	174.5	156.3	138.0	119.8	101.6	83.4	65.1	46.9
142.5°	192.1	178.1	164.0	148.0	132.0	115.9	99.9	83.9	67.9	51.8	35.8
145°	161.9	149.1	136.4	122.8	109.2	95.5	81.9	68.3	54.7	41.0	27.4
147.5°	132.1	120.9	109.7	98.6	87.5	76.4	65.3	54.3	43.2	32.1	21.0
150°	103.8	93.9	84.0	75.5	67.1	58.6	50.2	41.7	33.3	24.8	16.4
152.5°	77.2	68.8	60.3	54.1	48.0	41.8	35.7	29.5	23.4	17.2	11.1
155°	53.3	46.4	39.5	35.4	31.4	27.3	23.3	19.2	15.2	11.1	7.1
157.5°	32.5	27.1	21.7	19.5	17.3	15.1	12.9	10.8	8.6	6.4	4.2
160°	18.5	15.2	11.9	10.7	9.5	8.3	7.1	5.8	4.6	3.4	2.2
162.5°	9.0	7.4	5.9	5.4	4.8	4.3	3.7	3.2	2.6	2.1	1.5
165°	4.1	3.5	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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1073.1	1075.7	1078.4	1081.0	1083.6	1086.3	1088.9	1091.5	1094.2	1096.8	1096.5
5°	1063.2	1066.4	1069.6	1072.8	1076.0	1079.1	1082.3	1085.5	1088.7	1091.9	1092.4
7.5°	1051.4	1055.0	1058.6	1062.3	1065.9	1069.5	1073.1	1076.8	1080.4	1084.0	1085.4
10°	1036.5	1040.3	1044.2	1048.0	1051.9	1055.7	1059.6	1063.4	1067.3	1071.1	1073.6
12.5°	1020.7	1024.8	1028.8	1032.9	1037.0	1041.0	1045.1	1049.2	1053.2	1057.3	1060.8
15°	1004.9	1008.6	1012.4	1016.1	1019.8	1023.6	1027.3	1031.0	1034.8	1038.5	1043.2
17.5°	987.1	990.6	994.1	997.7	1001.2	1004.7	1008.2	1011.8	1015.3	1018.8	1024.7
20°	968.4	971.1	973.9	976.6	979.4	982.1	984.9	987.6	990.4	993.1	1000.7
22.5°	950.6	952.4	954.1	955.9	957.6	959.4	961.1	962.9	964.6	966.4	975.3
25°	931.8	932.3	932.9	933.4	934.0	934.5	935.1	935.6	936.2	936.7	947.2
27.5°	914.0	913.1	912.2	911.4	910.5	909.6	908.7	907.9	907.0	906.1	918.4
30°	898.2	895.3	892.5	889.6	886.8	883.9	881.1	878.2	875.4	872.5	886.8
32.5°	885.4	879.9	874.4	868.9	863.4	857.9	852.4	846.9	841.4	835.9	852.7
35°	871.5	863.4	855.3	847.1	839.0	830.9	822.8	814.6	806.5	798.4	817.7
37.5°	857.7	846.8	836.0	825.1	814.2	803.4	792.5	781.6	770.8	759.9	782.1
40°	843.9	830.0	816.0	802.1	788.1	774.2	760.2	746.3	732.3	718.4	743.6
42.5°	828.0	811.3	794.6	778.0	761.3	744.6	727.9	711.3	694.6	677.9	706.1
45°	811.2	791.7	772.1	752.6	733.1	713.5	694.0	674.5	654.9	635.4	666.7
47.5°	794.4	772.0	749.6	727.2	704.8	682.5	660.1	637.7	615.3	592.9	627.2
50°	775.7	750.7	725.6	700.6	675.6	650.5	625.5	600.5	575.4	550.4	587.4
52.5°	754.9	727.3	699.8	672.2	644.7	617.1	589.6	562.0	534.5	506.9	546.8
55°	734.2	704.1	674.0	643.9	613.8	583.8	553.7	523.6	493.5	463.4	506.0
57.5°	713.4	680.9	648.4	615.9	583.4	550.9	518.4	485.9	453.4	420.9	465.9
60°	691.7	656.8	621.9	587.0	552.1	517.1	482.2	447.3	412.4	377.5	424.9
62.5°	669.0	631.9	594.8	557.7	520.6	483.4	446.3	409.2	372.1	335.0	384.6
65°	644.3	605.2	566.1	527.0	487.9	448.9	409.8	370.7	331.6	292.5	344.0
67.5°	617.6	577.0	536.4	495.7	455.1	414.5	373.9	333.2	292.6	252.0	305.2
70°	589.9	547.6	505.4	463.1	420.8	378.6	336.3	294.0	251.8	209.5	264.4
72.5°	563.2	519.9	476.7	433.4	390.2	346.9	303.7	260.4	217.2	173.9	229.6
75°	528.6	485.1	441.6	398.2	354.7	311.2	267.7	224.3	180.8	137.3	193.7
77.5°	499.0	455.1	411.2	367.3	323.4	279.4	235.5	191.6	147.7	103.8	160.6
80°	467.4	423.5	379.6	335.6	291.7	247.8	203.9	159.9	116.0	72.1	129.1
82.5°	436.7	393.2	349.8	306.3	262.8	219.4	175.9	132.4	89.0	45.5	101.8
85°	407.1	364.5	321.9	279.3	236.7	194.1	151.5	108.9	66.3	23.7	79.1
87.5°	380.4	339.0	297.6	256.2	214.8	173.5	132.1	90.7	49.3	7.9	61.9
90°	360.7	320.7	280.8	240.8	200.8	160.9	120.9	80.9	41.0	1.0	53.0
92.5°	344.9	306.7	268.5	230.3	192.1	153.8	115.6	77.4	39.2	1.0	51.1
95°	328.1	291.8	255.4	219.1	182.7	146.4	110.0	73.7	37.3	1.0	49.1
97.5°	311.3	276.8	242.3	207.9	173.4	138.9	104.4	70.0	35.5	1.0	47.0
100°	293.5	261.0	228.5	196.0	163.5	131.0	98.5	66.0	33.5	1.0	44.9
102.5°	275.7	245.2	214.7	184.1	153.6	123.1	92.6	62.0	31.5	1.0	42.7
105°	255.9	227.6	199.3	170.9	142.6	114.3	86.0	57.6	29.3	1.0	40.5
107.5°	238.1	211.8	185.4	159.1	132.7	106.4	80.0	53.7	27.3	1.0	38.2
110°	218.4	194.2	170.1	145.9	121.8	97.6	73.5	49.3	25.2	1.0	35.9



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	199.6	177.5	155.5	133.4	111.3	89.3	67.2	45.1	23.1	1.0	33.5
115°	181.8	161.7	141.6	121.5	101.4	81.4	61.3	41.2	21.1	1.0	30.9
117.5°	164.0	145.9	127.8	109.7	91.6	73.4	55.3	37.2	19.1	1.0	28.3
120°	147.2	131.0	114.7	98.5	82.2	66.0	49.7	33.5	17.2	1.0	25.3
122.5°	128.5	114.3	100.2	86.0	71.8	57.7	43.5	29.3	15.2	1.0	22.7
125°	112.6	100.2	87.8	75.4	63.0	50.6	38.2	25.8	13.4	1.0	20.0
127.5°	96.8	86.2	75.5	64.9	54.2	43.6	32.9	22.3	11.6	1.0	17.0
130°	81.0	72.1	63.2	54.3	45.4	36.6	27.7	18.8	9.9	1.0	14.2
132.5°	66.2	59.1	51.9	44.8	37.7	30.5	23.4	16.3	9.1	2.0	12.5
135°	53.4	47.7	42.0	36.3	30.6	24.8	19.1	13.4	7.7	2.0	10.2
137.5°	40.5	36.2	31.9	27.7	23.4	19.1	14.8	10.6	6.3	2.0	8.0
140°	28.7	25.7	22.8	19.8	16.8	13.9	10.9	7.9	5.0	2.0	6.3
142.5°	19.8	17.8	15.8	13.9	11.9	9.9	7.9	6.0	4.0	2.0	5.1
145°	13.8	12.5	11.2	9.9	8.6	7.2	5.9	4.6	3.3	2.0	4.1
147.5°	9.9	9.0	8.1	7.3	6.4	5.5	4.6	3.8	2.9	2.0	3.4
150°	7.9	7.2	6.6	5.9	5.3	4.6	4.0	3.3	2.7	2.0	3.0
152.5°	4.9	4.6	4.3	3.9	3.6	3.3	3.0	2.6	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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1096.1	1095.8	1095.5	1095.1	1094.8	1094.5	1094.1	1093.8	1094.4	1094.9	1095.5
5°	1093.0	1093.5	1094.1	1094.6	1095.2	1095.7	1096.3	1096.8	1098.2	1099.7	1101.1
7.5°	1086.8	1088.3	1089.7	1091.1	1092.5	1094.0	1095.4	1096.8	1099.4	1102.1	1104.7
10°	1076.1	1078.7	1081.2	1083.7	1086.2	1088.8	1091.3	1093.8	1097.6	1101.5	1105.3
12.5°	1064.3	1067.8	1071.3	1074.9	1078.4	1081.9	1085.4	1088.9	1094.3	1099.7	1105.0
15°	1047.9	1052.7	1057.4	1062.1	1066.8	1071.6	1076.3	1081.0	1088.4	1095.7	1103.1
17.5°	1030.6	1036.6	1042.5	1048.4	1054.3	1060.3	1066.2	1072.1	1081.9	1091.7	1101.4
20°	1008.2	1015.8	1023.4	1030.9	1038.5	1046.1	1053.6	1061.2	1073.9	1086.7	1099.4
22.5°	984.2	993.1	1002.0	1010.8	1019.7	1028.6	1037.5	1046.4	1063.0	1079.6	1096.1
25°	957.8	968.3	978.9	989.4	1000.0	1010.5	1021.1	1031.6	1052.2	1072.9	1093.5
27.5°	930.7	943.0	955.3	967.6	979.9	992.2	1004.5	1016.8	1041.3	1065.8	1090.2
30°	901.1	915.3	929.6	943.9	958.2	972.4	986.7	1001.0	1029.3	1057.6	1086.0
32.5°	869.5	886.3	903.1	919.9	936.7	953.5	970.3	987.1	1018.6	1050.1	1081.6
35°	837.0	856.4	875.7	895.0	914.3	933.7	953.0	972.3	1007.1	1041.9	1076.7
37.5°	804.3	826.4	848.6	870.8	893.0	915.1	937.3	959.5	997.2	1034.8	1072.5
40°	768.9	794.1	819.4	844.6	869.9	895.1	920.4	945.6	986.1	1026.6	1067.1
42.5°	734.3	762.5	790.7	819.0	847.2	875.4	903.6	931.8	974.9	1018.1	1061.2
45°	698.0	729.3	760.6	791.8	823.1	854.4	885.7	917.0	962.8	1008.6	1054.3
47.5°	661.4	695.7	729.9	764.2	798.4	832.7	866.9	901.2	949.4	997.6	1045.8
50°	624.4	661.4	698.4	735.4	772.4	809.4	846.4	883.4	934.0	984.6	1035.2
52.5°	586.6	626.5	666.3	706.2	746.0	785.9	825.7	865.6	918.4	971.2	1024.0
55°	548.6	591.2	633.8	676.4	719.0	761.6	804.2	846.8	901.7	956.6	1011.5
57.5°	510.9	556.0	601.0	646.0	691.0	736.1	781.1	826.1	883.2	940.3	997.4
60°	472.3	519.8	567.2	614.6	662.0	709.5	756.9	804.3	863.5	922.7	981.8
62.5°	434.2	483.9	533.5	583.1	632.7	682.4	732.0	781.6	842.9	904.1	965.4
65°	395.5	447.0	498.5	549.9	601.4	652.9	704.4	755.9	819.3	882.6	946.0
67.5°	358.5	411.7	465.0	518.2	571.5	624.7	678.0	731.2	796.3	861.4	926.5
70°	319.3	374.2	429.1	483.9	538.8	593.7	648.6	703.5	770.1	836.8	903.4
72.5°	285.2	340.9	396.6	452.2	507.9	563.6	619.2	674.9	742.5	810.2	877.8
75°	250.2	306.6	363.0	419.5	475.9	532.3	588.8	645.2	713.5	781.8	850.1
77.5°	217.3	274.1	330.8	387.6	444.3	501.1	557.8	614.6	683.0	751.4	819.8
80°	186.1	243.1	300.1	357.0	414.0	471.0	528.0	585.0	653.0	720.9	788.9
82.5°	158.1	214.5	270.8	327.1	383.4	439.8	496.1	552.4	620.0	687.6	755.3
85°	134.6	190.0	245.5	300.9	356.4	411.8	467.3	522.7	589.3	656.0	722.6
87.5°	115.9	170.0	224.0	278.0	332.0	386.1	440.1	494.1	559.5	625.0	690.4
90°	105.1	157.1	209.2	261.2	313.3	365.3	417.4	469.4	533.5	597.6	661.7
92.5°	101.1	151.2	201.3	251.3	301.4	351.5	401.5	451.6	514.4	577.2	640.0
95°	97.2	145.3	193.4	241.4	289.5	337.6	385.7	433.8	495.6	557.4	619.2
97.5°	93.0	139.0	185.0	231.0	277.0	323.0	369.0	415.0	475.9	536.9	597.8
100°	88.8	132.7	176.6	220.6	264.5	308.4	352.3	396.2	456.1	516.1	576.0
102.5°	84.4	126.2	167.9	209.6	251.3	293.1	334.8	376.5	435.2	494.0	552.7
105°	80.0	119.6	159.1	198.6	238.1	277.7	317.2	356.7	414.2	471.8	529.3
107.5°	75.4	112.7	149.9	187.1	224.3	261.6	298.8	336.0	392.3	448.6	505.0
110°	70.8	105.7	140.6	175.6	210.5	245.4	280.3	315.2	370.0	424.8	479.6



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	66.0	98.5	131.0	163.5	196.0	228.5	261.0	293.5	346.9	400.2	453.6
115°	60.7	90.6	120.5	150.3	180.2	210.1	239.9	269.8	321.7	373.6	425.6
117.5°	55.7	83.0	110.3	137.7	165.0	192.3	219.7	247.0	297.3	347.6	397.9
120°	49.5	73.8	98.1	122.3	146.6	170.9	195.1	219.4	268.5	317.6	366.6
122.5°	44.5	66.2	87.9	109.7	131.4	153.1	174.9	196.6	243.7	290.8	337.9
125°	39.0	58.0	77.0	95.9	114.9	133.9	152.9	171.9	216.9	261.9	307.0
127.5°	33.1	49.1	65.1	81.2	97.2	113.2	129.3	145.3	187.8	230.3	272.8
130°	27.4	40.5	53.7	66.9	80.1	93.2	106.4	119.6	158.1	196.7	235.2
132.5°	23.1	33.6	44.1	54.7	65.2	75.7	86.3	96.8	131.4	166.0	200.6
135°	18.5	26.7	34.9	43.2	51.4	59.6	67.9	76.1	107.1	138.0	169.0
137.5°	14.1	20.1	26.1	32.2	38.2	44.2	50.3	56.3	84.0	111.6	139.3
140°	10.6	14.8	19.1	23.4	27.7	31.9	36.2	40.5	64.8	89.0	113.3
142.5°	8.1	11.2	14.3	17.3	20.4	23.5	26.5	29.6	50.1	70.7	91.2
145°	6.2	8.3	10.4	12.4	14.5	16.6	18.7	20.8	37.9	55.0	72.2
147.5°	4.8	6.3	7.7	9.1	10.5	12.0	13.4	14.8	28.5	42.2	56.0
150°	4.0	5.0	6.0	6.9	7.9	8.9	9.9	10.9	21.4	32.0	42.5
152.5°	3.3	4.0	4.6	5.3	5.9	6.6	7.2	7.9	15.5	23.1	30.6
155°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	10.5	15.1	19.7
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	6.8	9.7	12.5
160°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	4.4	5.8	7.3
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.1	3.6
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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1096.0	1096.6	1097.1	1097.7	1098.2	1098.8	1099.0	1099.2	1099.5	1099.7	1099.9
5°	1102.5	1104.0	1105.4	1106.8	1108.3	1109.7	1110.6	1111.5	1112.3	1113.2	1114.1
7.5°	1107.3	1110.0	1112.6	1115.2	1117.9	1120.5	1122.3	1124.0	1125.8	1127.5	1129.3
10°	1109.2	1113.0	1116.9	1120.7	1124.6	1128.4	1131.6	1134.8	1138.0	1141.2	1144.3
12.5°	1110.4	1115.8	1121.2	1126.5	1131.9	1137.3	1142.2	1147.2	1152.1	1157.1	1162.0
15°	1110.4	1117.8	1125.1	1132.5	1139.8	1147.2	1154.2	1161.2	1168.3	1175.3	1182.3
17.5°	1111.2	1121.0	1130.8	1140.5	1150.3	1160.1	1169.9	1179.6	1189.4	1199.2	1208.9
20°	1112.2	1124.9	1137.7	1150.4	1163.2	1175.9	1188.3	1200.7	1213.1	1225.5	1237.9
22.5°	1112.7	1129.3	1145.9	1162.4	1179.0	1195.6	1210.1	1224.6	1239.1	1253.6	1268.1
25°	1114.2	1134.8	1155.5	1176.1	1196.8	1217.4	1233.6	1249.9	1266.1	1282.4	1298.6
27.5°	1114.7	1139.2	1163.7	1188.1	1212.6	1237.1	1255.1	1273.1	1291.1	1309.1	1327.2
30°	1114.3	1142.6	1170.9	1199.3	1227.6	1255.9	1275.6	1295.2	1314.9	1334.5	1354.2
32.5°	1113.1	1144.7	1176.2	1207.7	1239.2	1270.7	1292.3	1314.0	1335.6	1357.2	1378.9
35°	1111.5	1146.3	1181.1	1215.9	1250.7	1285.5	1309.1	1332.7	1356.3	1379.9	1403.6
37.5°	1110.1	1147.8	1185.4	1223.1	1260.7	1298.4	1324.1	1349.8	1375.5	1401.2	1426.8
40°	1107.6	1148.2	1188.7	1229.2	1269.7	1310.2	1337.9	1365.6	1393.2	1420.9	1448.6
42.5°	1104.4	1147.5	1190.7	1233.8	1277.0	1320.1	1350.1	1380.1	1410.0	1440.0	1470.0
45°	1100.1	1145.9	1191.7	1237.4	1283.2	1329.0	1361.2	1393.3	1425.5	1457.7	1489.8
47.5°	1094.0	1142.2	1190.4	1238.6	1286.8	1335.0	1369.7	1404.4	1439.1	1473.8	1508.4
50°	1085.8	1136.5	1187.1	1237.7	1288.3	1338.9	1376.2	1413.6	1450.9	1488.2	1525.6
52.5°	1076.8	1129.7	1182.5	1235.3	1288.1	1340.9	1381.0	1421.0	1461.1	1501.2	1541.2
55°	1066.4	1121.3	1176.2	1231.1	1286.0	1340.9	1383.5	1426.1	1468.7	1511.3	1553.9
57.5°	1054.5	1111.5	1168.6	1225.7	1282.8	1339.9	1384.9	1429.9	1474.9	1519.9	1565.0
60°	1041.0	1100.2	1159.4	1218.5	1277.7	1336.9	1384.0	1431.1	1478.2	1525.3	1572.4
62.5°	1026.7	1087.9	1149.2	1210.5	1271.7	1333.0	1382.0	1430.9	1479.9	1528.9	1577.8
65°	1009.3	1072.7	1136.0	1199.4	1262.7	1326.1	1376.5	1426.9	1477.3	1527.7	1578.0
67.5°	991.6	1056.8	1121.9	1187.0	1252.1	1317.2	1368.7	1420.2	1471.7	1523.2	1574.6
70°	970.1	1036.7	1103.4	1170.0	1236.7	1303.3	1355.8	1408.3	1460.8	1513.3	1565.7
72.5°	945.4	1013.1	1080.7	1148.3	1216.0	1283.6	1336.7	1389.9	1443.0	1496.1	1549.3
75°	918.4	986.7	1055.0	1123.3	1191.6	1259.9	1313.5	1367.1	1420.6	1474.2	1527.8
77.5°	888.2	956.6	1025.0	1093.4	1161.8	1230.2	1283.8	1337.4	1390.9	1444.5	1498.1
80°	856.8	924.8	992.7	1060.7	1128.6	1196.6	1249.5	1302.4	1355.4	1408.3	1461.2
82.5°	822.9	890.5	958.1	1025.8	1093.4	1161.0	1213.2	1265.3	1317.5	1369.6	1421.8
85°	789.3	855.9	922.6	989.2	1055.9	1122.5	1173.7	1224.8	1276.0	1327.2	1378.3
87.5°	755.8	821.3	886.7	952.1	1017.6	1083.0	1133.1	1183.1	1233.2	1283.3	1333.3
90°	725.8	790.0	854.1	918.2	982.3	1046.4	1095.3	1144.1	1193.0	1241.8	1290.7
92.5°	702.8	765.6	828.4	891.2	954.0	1016.8	1064.3	1111.9	1159.4	1206.9	1254.5
95°	681.0	742.9	804.7	866.5	928.3	990.1	1037.0	1083.9	1130.7	1177.6	1224.5
97.5°	658.7	719.7	780.6	841.5	902.5	963.4	1008.5	1053.6	1098.8	1143.9	1189.0
100°	636.0	695.9	755.9	815.8	875.8	935.7	979.7	1023.8	1067.8	1111.8	1155.9
102.5°	611.4	670.2	728.9	787.6	846.4	905.1	948.5	991.8	1035.2	1078.6	1121.9
105°	586.8	644.4	701.9	759.4	817.0	874.5	917.1	959.7	1002.3	1044.9	1087.5
107.5°	561.3	617.6	673.9	730.3	786.6	842.9	884.6	926.3	968.1	1009.8	1051.5
110°	534.4	589.1	643.9	698.7	753.5	808.3	848.9	889.5	930.2	970.8	1011.4



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	506.9	560.3	613.6	667.0	720.3	773.7	813.3	853.0	892.6	932.2	971.9
115°	477.5	529.4	581.3	633.3	685.2	737.1	775.5	814.0	852.4	890.8	929.3
117.5°	448.2	498.4	548.7	599.0	649.3	699.6	736.7	773.8	810.9	848.0	885.2
120°	415.7	464.8	513.9	562.9	612.0	661.1	696.9	732.7	768.5	804.3	840.0
122.5°	385.0	432.1	479.2	526.3	573.4	620.5	654.8	689.0	723.3	757.5	791.8
125°	352.0	397.0	442.0	487.1	532.1	577.1	609.9	642.7	675.6	708.4	741.2
127.5°	315.3	357.7	400.2	442.7	485.2	527.7	559.9	592.0	624.2	656.4	688.5
130°	273.7	312.3	350.8	389.3	427.9	466.4	498.9	531.4	563.9	596.4	628.9
132.5°	235.2	269.7	304.3	338.9	373.5	408.1	440.4	472.7	504.9	537.2	569.5
135°	199.9	230.9	261.8	292.8	323.7	354.7	385.9	417.1	448.3	479.5	510.6
137.5°	167.0	194.6	222.3	250.0	277.6	305.3	334.2	363.1	391.9	420.8	449.7
140°	137.6	161.8	186.1	210.4	234.6	258.9	284.8	310.7	336.6	362.5	388.5
142.5°	111.7	132.3	152.8	173.3	193.9	214.4	237.5	260.5	283.6	306.6	329.7
145°	89.3	106.4	123.5	140.7	157.8	174.9	195.0	215.1	235.2	255.3	275.3
147.5°	69.7	83.4	97.1	110.9	124.6	138.3	155.7	173.0	190.4	207.7	225.1
150°	53.0	63.6	74.1	84.6	95.2	105.7	120.3	134.9	149.5	164.1	178.7
152.5°	38.2	45.8	53.4	60.9	68.5	76.1	88.0	99.8	111.7	123.5	135.4
155°	24.3	29.0	33.6	38.2	42.8	47.4	57.2	67.0	76.7	86.5	96.3
157.5°	15.4	18.2	21.1	23.9	26.8	29.6	36.7	43.9	51.0	58.2	65.3
160°	8.7	10.1	11.5	13.0	14.4	15.8	20.2	24.6	29.0	33.4	37.7
162.5°	4.2	4.7	5.3	5.8	6.4	6.9	9.3	11.7	14.2	16.6	19.0
165°	1.9	2.1	2.3	2.6	2.8	3.0	3.9	4.8	5.6	6.5	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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1100.1	1100.4	1100.6	1100.8	1099.5	1098.2	1096.8	1095.5	1094.2	1092.9	1091.5
5°	1115.0	1115.8	1116.7	1117.6	1117.3	1116.9	1116.6	1116.3	1115.9	1115.6	1115.3
7.5°	1131.0	1132.8	1134.5	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3
10°	1147.5	1150.7	1153.9	1157.1	1157.5	1158.0	1158.4	1158.8	1159.3	1159.7	1160.1
12.5°	1167.0	1171.9	1176.9	1181.8	1182.9	1184.0	1185.1	1186.2	1187.3	1188.4	1189.5
15°	1189.3	1196.4	1203.4	1210.4	1212.6	1214.8	1217.0	1219.2	1221.4	1223.6	1225.8
17.5°	1218.7	1228.5	1238.2	1248.0	1251.3	1254.6	1257.9	1261.2	1264.4	1267.7	1271.0
20°	1250.3	1262.7	1275.1	1287.5	1291.6	1295.6	1299.7	1303.8	1307.8	1311.9	1316.0
22.5°	1282.6	1297.1	1311.6	1326.1	1330.6	1335.1	1339.6	1344.1	1348.6	1353.1	1357.6
25°	1314.9	1331.1	1347.4	1363.6	1368.8	1373.9	1379.1	1384.2	1389.4	1394.5	1399.7
27.5°	1345.2	1363.2	1381.2	1399.2	1405.1	1411.0	1417.0	1422.9	1428.8	1434.7	1440.7
30°	1373.8	1393.5	1413.1	1432.8	1439.7	1446.6	1453.5	1460.4	1467.4	1474.3	1481.2
32.5°	1400.5	1422.1	1443.8	1465.4	1473.3	1481.2	1489.1	1497.0	1504.9	1512.8	1520.7
35°	1427.2	1450.8	1474.4	1498.0	1506.9	1515.8	1524.7	1533.6	1542.4	1551.3	1560.2
37.5°	1452.5	1478.2	1503.9	1529.6	1539.5	1549.4	1559.2	1569.1	1579.0	1588.9	1598.7
40°	1476.3	1503.9	1531.6	1559.3	1570.3	1581.3	1592.2	1603.2	1614.2	1625.2	1636.1
42.5°	1500.0	1529.9	1559.9	1589.9	1602.0	1614.1	1626.1	1638.2	1650.3	1662.4	1674.4
45°	1522.0	1554.2	1586.3	1618.5	1631.7	1644.9	1658.0	1671.2	1684.4	1697.6	1710.7
47.5°	1543.1	1577.8	1612.5	1647.2	1661.6	1676.0	1690.3	1704.7	1719.1	1733.5	1747.8
50°	1562.9	1600.2	1637.6	1674.9	1690.7	1706.5	1722.3	1738.1	1754.0	1769.8	1785.6
52.5°	1581.3	1621.4	1661.4	1701.5	1718.3	1735.1	1751.9	1768.7	1785.5	1802.3	1819.1
55°	1596.5	1639.1	1681.7	1724.3	1742.1	1759.9	1777.6	1795.4	1813.2	1831.0	1848.7
57.5°	1610.0	1655.0	1700.0	1745.0	1763.6	1782.1	1800.7	1819.2	1837.8	1856.3	1874.9
60°	1619.5	1666.6	1713.7	1760.8	1780.2	1799.7	1819.1	1838.5	1858.0	1877.4	1896.8
62.5°	1626.8	1675.8	1724.7	1773.7	1793.6	1813.4	1833.3	1853.2	1873.0	1892.9	1912.8
65°	1628.4	1678.8	1729.2	1779.6	1799.8	1820.0	1840.2	1860.4	1880.6	1900.8	1921.0
67.5°	1626.1	1677.6	1729.1	1780.6	1801.1	1821.7	1842.2	1862.7	1883.3	1903.8	1924.3
70°	1618.2	1670.7	1723.2	1775.7	1796.2	1816.7	1837.3	1857.8	1878.3	1898.8	1919.4
72.5°	1602.4	1655.5	1708.7	1761.8	1782.4	1803.1	1823.7	1844.4	1865.0	1885.7	1906.3
75°	1581.4	1634.9	1688.5	1742.1	1762.4	1782.7	1803.0	1823.3	1843.7	1864.0	1884.3
77.5°	1551.7	1605.2	1658.8	1712.4	1732.5	1752.6	1772.7	1792.8	1812.8	1832.9	1853.0
80°	1514.1	1567.1	1620.0	1672.9	1692.9	1712.9	1732.8	1752.8	1772.8	1792.8	1812.7
82.5°	1473.9	1526.1	1578.2	1630.4	1649.9	1669.5	1689.0	1708.6	1728.1	1747.7	1767.2
85°	1429.5	1480.7	1531.8	1583.0	1602.3	1621.6	1641.0	1660.3	1679.6	1698.9	1718.3
87.5°	1383.4	1433.5	1483.5	1533.6	1552.6	1571.6	1590.6	1609.6	1628.5	1647.5	1666.5
90°	1339.5	1388.4	1437.2	1486.1	1504.8	1523.4	1542.1	1560.8	1579.4	1598.1	1616.8
92.5°	1302.0	1349.5	1397.1	1444.6	1462.8	1481.1	1499.3	1517.5	1535.8	1554.0	1572.2
95°	1271.4	1318.2	1365.1	1412.0	1429.1	1446.3	1463.4	1480.5	1497.7	1514.8	1531.9
97.5°	1234.1	1279.3	1324.4	1369.5	1386.6	1403.8	1420.9	1438.0	1455.2	1472.3	1489.4
100°	1199.9	1243.9	1288.0	1332.0	1348.6	1365.2	1381.7	1398.3	1414.9	1431.5	1448.0
102.5°	1165.3	1208.7	1252.0	1295.4	1311.5	1327.7	1343.8	1360.0	1376.1	1392.3	1408.4
105°	1130.1	1172.7	1215.3	1257.9	1273.7	1289.5	1305.3	1321.1	1337.0	1352.8	1368.6
107.5°	1093.2	1135.0	1176.7	1218.4	1233.9	1249.4	1264.8	1280.3	1295.8	1311.3	1326.7
110°	1052.0	1092.7	1133.3	1173.9	1189.3	1204.6	1220.0	1235.4	1250.7	1266.1	1281.5



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1011.5	1051.1	1090.8	1130.4	1145.3	1160.3	1175.2	1190.1	1205.1	1220.0	1234.9
115°	967.7	1006.1	1044.6	1083.0	1097.5	1112.0	1126.5	1141.0	1155.4	1169.9	1184.4
117.5°	922.3	959.4	996.5	1033.6	1047.8	1061.9	1076.1	1090.2	1104.4	1118.5	1132.7
120°	875.8	911.6	947.4	983.2	996.9	1010.6	1024.4	1038.1	1051.8	1065.5	1079.3
122.5°	826.0	860.3	894.5	928.8	942.2	955.6	969.0	982.4	995.8	1009.2	1022.6
125°	774.0	806.9	839.7	872.5	885.5	898.4	911.4	924.3	937.3	950.2	963.2
127.5°	720.7	752.9	785.0	817.2	829.4	841.6	853.8	866.0	878.1	890.3	902.5
130°	661.4	693.9	726.4	758.9	770.5	782.2	793.8	805.4	817.1	828.7	840.3
132.5°	601.8	634.0	666.3	698.6	709.8	721.0	732.2	743.4	754.6	765.8	777.0
135°	541.8	573.0	604.2	635.4	646.3	657.1	668.0	678.9	689.7	700.6	711.5
137.5°	478.6	507.4	536.3	565.2	576.1	586.9	597.8	608.7	619.5	630.4	641.3
140°	414.4	440.3	466.2	492.1	503.4	514.7	526.0	537.3	548.7	560.0	571.3
142.5°	352.7	375.8	398.8	421.9	433.5	445.2	456.8	468.5	480.1	491.8	503.4
145°	295.4	315.5	335.6	355.7	367.8	379.9	391.9	404.0	416.1	428.2	440.2
147.5°	242.4	259.8	277.1	294.5	306.6	318.7	330.7	342.8	354.9	367.0	379.0
150°	193.3	207.9	222.5	237.1	249.0	260.8	272.7	284.6	296.4	308.3	320.2
152.5°	147.2	159.1	170.9	182.8	194.1	205.4	216.7	228.0	239.4	250.7	262.0
155°	106.1	115.8	125.6	135.4	145.3	155.2	165.0	174.9	184.8	194.7	204.5
157.5°	72.5	79.6	86.8	93.9	102.4	110.8	119.3	127.7	136.2	144.6	153.1
160°	42.1	46.5	50.9	55.3	62.3	69.4	76.4	83.4	90.5	97.5	104.5
162.5°	21.4	23.9	26.3	28.7	33.4	38.1	42.8	47.5	52.3	57.0	61.7
165°	8.3	9.1	10.0	10.9	13.8	16.6	19.5	22.3	25.2	28.0	30.9
167.5°	1.3	1.6	1.8	2.0	3.2	4.4	5.6	6.8	8.0	9.2	10.4
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: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1083.0	1083.0
2.5°	1090.2	1088.9
5°	1114.9	1114.6
7.5°	1136.3	1136.3
10°	1160.6	1161.0
12.5°	1190.6	1191.7
15°	1228.0	1230.2
17.5°	1274.3	1277.6
20°	1320.0	1324.1
22.5°	1362.1	1366.6
25°	1404.8	1410.0
27.5°	1446.6	1452.5
30°	1488.1	1495.0
32.5°	1528.6	1536.5
35°	1569.1	1578.0
37.5°	1608.6	1618.5
40°	1647.1	1658.1
42.5°	1686.5	1698.6
45°	1723.9	1737.1
47.5°	1762.2	1776.6
50°	1801.4	1817.2
52.5°	1835.9	1852.7
55°	1866.5	1884.3
57.5°	1893.4	1912.0
60°	1916.3	1935.7
62.5°	1932.6	1952.5
65°	1941.2	1961.4
67.5°	1944.9	1965.4
70°	1939.9	1960.4
72.5°	1927.0	1947.6
75°	1904.6	1924.9
77.5°	1873.1	1893.2
80°	1832.7	1852.7
82.5°	1786.8	1806.3
85°	1737.6	1756.9
87.5°	1685.5	1704.5
90°	1635.4	1654.1
92.5°	1590.5	1608.7
95°	1549.1	1566.2
97.5°	1506.6	1523.7
100°	1464.6	1481.2
102.5°	1424.6	1440.7
105°	1384.4	1400.2
107.5°	1342.2	1357.7
110°	1296.8	1312.2



TEST NUMBER: P201366

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1249.9	1264.8
115°	1198.9	1213.4
117.5°	1146.8	1161.0
120°	1093.0	1106.7
122.5°	1036.0	1049.4
125°	976.1	989.1
127.5°	914.7	926.9
130°	852.0	863.6
132.5°	788.2	799.4
135°	722.3	733.2
137.5°	652.1	663.0
140°	582.6	593.9
142.5°	515.1	526.7
145°	452.3	464.4
147.5°	391.1	403.2
150°	332.0	343.9
152.5°	273.3	284.6
155°	214.4	224.3
157.5°	161.5	170.0
160°	111.6	118.6
162.5°	66.4	71.1
165°	33.7	36.6
167.5°	11.6	12.8
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)