

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: P201363

Luminaire Tested: **4LBLED-LD4-9-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28230)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-9-ASYMW-UNV-L835-CD2-U  
Description: 4 ft. Low Bay Linear, 9000 lm, Wht Asym lens, 3.5K  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
2UT217098A8350C, 2UT217056A8350B  
Ballast/Driver: OSRAM  
OT50W0980CC, OT50W0600CC

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8987.4 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

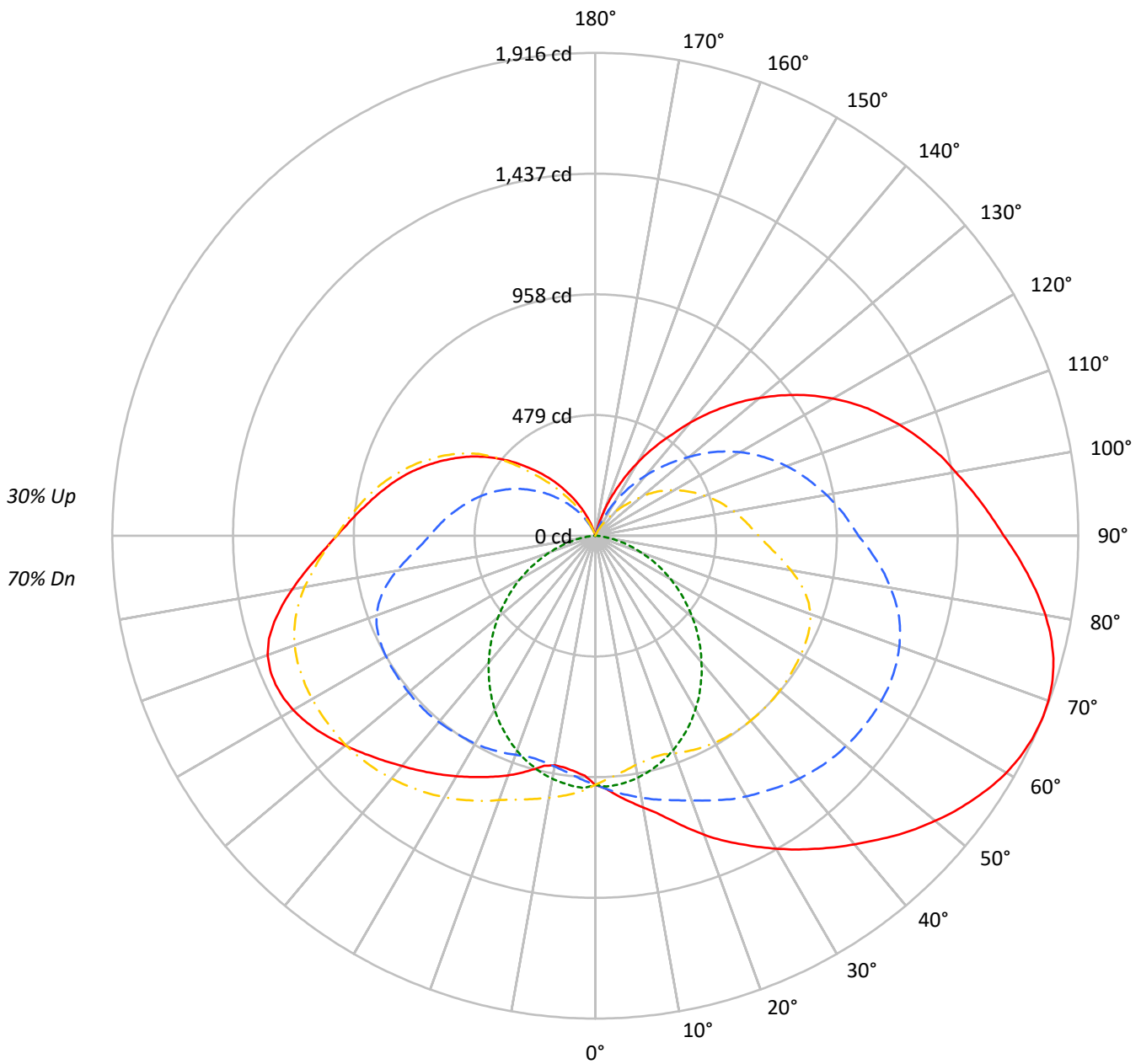
Input Watts (W): 72.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°



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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	48
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°	15924	15924	15924	15924
5°	15120	15975	13693	16070
10°	14689	15797	12408	15878
15°	14622	15543	12014	15607
20°	14901	15217	11939	15283
25°	15170	14821	11880	14854
30°	15519	14352	11925	14404
35°	15938	13804	12055	13861
40°	16444	13206	12267	13264
45°	17078	12566	12605	12607
50°	17758	11850	13062	11874
55°	18482	11085	13607	11085
60°	19215	10197	14121	10197
65°	19849	9221	14533	9186
70°	20383	7944	14739	7903
75°	20739	6439	14530	6387
80°	20867	4529	14044	4601
85°	20876	2064	13549	2296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	1.0
10°-20°	284.2	3.2
20°-30°	478.4	5.3
30°-40°	664.1	7.4
40°-50°	830.9	9.2
50°-60°	965.5	10.7
60°-70°	1045.7	11.6
70°-80°	1029.2	11.5
80°-90°	913.0	10.2
90°-100°	788.0	8.8
100°-110°	663.5	7.4
110°-120°	519.5	5.8
120°-130°	364.6	4.1
130°-140°	215.3	2.4
140°-150°	99.0	1.1
150°-160°	29.6	0.3
160°-170°	2.7	0.0
170°-180°	0.0	0.0
0°-30°	856.9	9.5
0°-40°	1521.0	16.9
0°-60°	3317.4	36.9
0°-90°	6305.3	70.2
90°-120°	1971.0	21.9
90°-150°	2649.8	29.5
90°-180°	2682.0	29.8
0°-180°	8987.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	988	988	988	988	988	
5°	1037	992	939	998	1037	101
15°	1169	945	960	949	1169	335
25°	1349	854	1056	856	1349	627
35°	1517	727	1147	730	1517	955
45°	1683	580	1242	582	1683	1304
55°	1828	424	1346	424	1828	1639
65°	1911	269	1399	268	1911	1892
75°	1882	124	1318	122	1882	1983
85°	1720	18	1117	20	1720	1425
90°	1621	0	1026	1	1621	889
95°	1536	0	953	0	1536	1237
105°	1373	0	826	1	1373	1452
115°	1194	0	692	1	1194	1183
125°	974	0	546	1	974	875
135°	722	0	387	1	722	561
145°	453	0	237	1	453	289
155°	218	0	100	2	218	105
165°	34	0	5	2	34	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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	1005.9	1005.4	1004.8	1004.3	1003.7	1003.2	1002.6	1002.1	1001.5	1001.0	1001.5
5°	1036.6	1035.3	1034.0	1032.6	1031.3	1030.0	1028.7	1027.3	1026.0	1024.7	1024.6
7.5°	1065.2	1063.6	1061.9	1060.3	1058.6	1057.0	1055.3	1053.7	1052.0	1050.4	1049.2
10°	1094.9	1092.8	1090.7	1088.6	1086.5	1084.5	1082.4	1080.3	1078.2	1076.1	1073.8
12.5°	1126.5	1123.9	1121.2	1118.6	1116.0	1113.3	1110.7	1108.1	1105.4	1102.8	1099.3
15°	1169.0	1166.0	1163.1	1160.1	1157.1	1154.2	1151.2	1148.2	1145.3	1142.3	1135.9
17.5°	1215.4	1211.1	1206.8	1202.6	1198.3	1194.0	1189.7	1185.5	1181.2	1176.9	1168.4
20°	1262.9	1257.4	1251.9	1246.4	1240.9	1235.5	1230.0	1224.5	1219.0	1213.5	1202.8
22.5°	1307.3	1300.9	1294.6	1288.2	1281.8	1275.5	1269.1	1262.7	1256.4	1250.0	1237.5
25°	1348.8	1342.5	1336.3	1330.0	1323.8	1317.5	1311.3	1305.0	1298.8	1292.5	1277.5
27.5°	1391.3	1384.1	1376.8	1369.6	1362.3	1355.1	1347.8	1340.6	1333.3	1326.1	1309.6
30°	1433.8	1425.9	1418.0	1410.1	1402.2	1394.3	1386.4	1378.5	1370.6	1362.7	1344.0
32.5°	1476.3	1467.6	1459.0	1450.3	1441.6	1433.0	1424.3	1415.6	1407.0	1398.3	1377.4
35°	1516.8	1507.3	1497.7	1488.2	1478.6	1469.1	1459.5	1450.0	1440.4	1430.9	1408.2
37.5°	1558.3	1547.8	1537.2	1526.7	1516.2	1505.6	1495.1	1484.6	1474.0	1463.5	1439.1
40°	1598.8	1587.4	1576.0	1564.6	1553.2	1541.7	1530.3	1518.9	1507.5	1496.1	1469.6
42.5°	1639.4	1627.2	1615.0	1602.8	1590.6	1578.5	1566.3	1554.1	1541.9	1529.7	1500.9
45°	1682.8	1669.3	1655.8	1642.3	1628.8	1615.3	1601.8	1588.3	1574.8	1561.3	1530.3
47.5°	1722.4	1708.0	1693.6	1679.2	1664.8	1650.5	1636.1	1621.7	1607.3	1592.9	1559.4
50°	1759.9	1744.6	1729.4	1714.1	1698.9	1683.6	1668.4	1653.1	1637.9	1622.6	1586.6
52.5°	1796.5	1780.4	1764.2	1748.1	1731.9	1715.8	1699.6	1683.5	1667.3	1651.2	1612.6
55°	1828.1	1811.4	1794.7	1778.0	1761.3	1744.7	1728.0	1711.3	1694.6	1677.9	1636.7
57.5°	1857.7	1840.4	1823.0	1805.7	1788.3	1771.0	1753.6	1736.3	1718.9	1701.6	1658.1
60°	1882.5	1864.6	1846.7	1828.8	1810.9	1793.0	1775.1	1757.2	1739.3	1721.4	1675.7
62.5°	1900.2	1882.1	1864.0	1845.9	1827.8	1809.6	1791.5	1773.4	1755.3	1737.2	1689.7
65°	1911.1	1892.8	1874.4	1856.1	1837.8	1819.4	1801.1	1782.8	1764.4	1746.1	1696.9
67.5°	1916.0	1897.6	1879.1	1860.7	1842.2	1823.8	1805.3	1786.9	1768.4	1750.0	1699.5
70°	1913.1	1894.5	1876.0	1857.4	1838.9	1820.3	1801.8	1783.2	1764.7	1746.1	1694.7
72.5°	1902.2	1883.6	1865.1	1846.5	1828.0	1809.4	1790.9	1772.3	1753.8	1735.2	1683.3
75°	1881.5	1863.1	1844.6	1826.2	1807.7	1789.3	1770.8	1752.4	1733.9	1715.5	1663.6
77.5°	1851.8	1833.6	1815.4	1797.1	1778.9	1760.7	1742.5	1724.2	1706.0	1687.8	1635.9
80°	1813.3	1795.2	1777.1	1758.9	1740.8	1722.7	1704.6	1686.4	1668.3	1650.2	1598.9
82.5°	1768.8	1751.6	1734.3	1717.1	1699.9	1682.6	1665.4	1648.2	1630.9	1613.7	1563.0
85°	1720.4	1703.4	1686.4	1669.3	1652.3	1635.3	1618.3	1601.2	1584.2	1567.2	1517.5
87.5°	1671.0	1654.2	1637.4	1620.6	1603.8	1587.0	1570.2	1553.4	1536.6	1519.8	1471.2
90°	1620.6	1603.6	1586.6	1569.5	1552.5	1535.5	1518.5	1501.4	1484.4	1467.4	1420.3
92.5°	1577.1	1561.0	1544.8	1528.7	1512.5	1496.4	1480.2	1464.1	1447.9	1431.8	1385.6
95°	1535.6	1519.9	1504.2	1488.5	1472.8	1457.1	1441.4	1425.7	1410.0	1394.3	1349.3
97.5°	1493.1	1477.8	1462.6	1447.3	1432.1	1416.8	1401.6	1386.3	1371.1	1355.8	1311.9
100°	1451.6	1436.8	1422.0	1407.1	1392.3	1377.5	1362.7	1347.8	1333.0	1318.2	1275.3
102.5°	1415.0	1400.2	1385.4	1370.5	1355.7	1340.9	1326.1	1311.2	1296.4	1281.6	1239.2
105°	1372.6	1358.3	1344.0	1329.8	1315.5	1301.2	1286.9	1272.7	1258.4	1244.1	1202.6
107.5°	1330.1	1316.0	1302.0	1287.9	1273.9	1259.8	1245.8	1231.7	1217.7	1203.6	1163.2
110°	1285.6	1271.8	1257.9	1244.1	1230.3	1216.4	1202.6	1188.8	1174.9	1161.1	1121.9



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1238.2	1224.7	1211.2	1197.7	1184.2	1170.6	1157.1	1143.6	1130.1	1116.6	1078.5
115°	1193.7	1179.9	1166.0	1152.2	1138.4	1124.5	1110.7	1096.9	1083.0	1069.2	1032.4
117.5°	1142.3	1128.9	1115.5	1102.1	1088.7	1075.4	1062.0	1048.6	1035.2	1021.8	986.2
120°	1089.0	1075.4	1061.8	1048.1	1034.5	1020.9	1007.3	993.6	980.0	966.4	932.7
122.5°	1032.6	1019.6	1006.7	993.7	980.8	967.8	954.9	941.9	929.0	916.0	883.4
125°	974.3	961.9	949.5	937.1	924.7	912.3	899.9	887.5	875.1	862.7	831.3
127.5°	913.1	901.2	889.4	877.5	865.6	853.8	841.9	830.0	818.2	806.3	776.1
130°	850.8	839.7	828.6	817.5	806.4	795.4	784.3	773.2	762.1	751.0	721.7
132.5°	787.6	776.9	766.3	755.6	745.0	734.3	723.7	713.0	702.4	691.7	663.9
135°	722.3	712.1	701.9	691.7	681.5	671.2	661.0	650.8	640.6	630.4	604.6
137.5°	654.2	644.5	634.9	625.2	615.5	605.9	596.2	586.5	576.9	567.2	543.7
140°	586.0	577.2	568.4	559.6	550.8	542.1	533.3	524.5	515.7	506.9	485.4
142.5°	513.8	506.8	499.8	492.7	485.7	478.7	471.7	464.6	457.6	450.6	430.6
145°	452.6	446.3	440.1	433.8	427.6	421.3	415.1	408.8	402.6	396.3	377.7
147.5°	393.3	387.5	381.7	375.8	370.0	364.2	358.4	352.5	346.7	340.9	324.1
150°	334.0	328.9	323.9	318.8	313.8	308.7	303.7	298.6	293.6	288.5	273.4
152.5°	276.7	272.1	267.5	262.9	258.3	253.6	249.0	244.4	239.8	235.2	222.0
155°	218.4	214.3	210.3	206.2	202.1	198.1	194.0	189.9	185.9	181.8	170.2
157.5°	164.0	160.8	157.6	154.5	151.3	148.1	144.9	141.8	138.6	135.4	125.8
160°	114.6	111.5	108.5	105.4	102.3	99.3	96.2	93.1	90.1	87.0	80.6
162.5°	68.2	66.2	64.2	62.3	60.3	58.3	56.3	54.4	52.4	50.4	46.2
165°	33.6	32.5	31.4	30.3	29.2	28.1	27.0	25.9	24.8	23.7	21.6
167.5°	10.9	10.6	10.2	9.9	9.6	9.2	8.9	8.6	8.2	7.9	7.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	1002.1	1002.6	1003.2	1003.7	1004.3	1004.8	1005.4	1005.9	1004.0	1002.2	1000.3
5°	1024.5	1024.4	1024.3	1024.1	1024.0	1023.9	1023.8	1023.7	1020.6	1017.6	1014.5
7.5°	1048.0	1046.8	1045.6	1044.3	1043.1	1041.9	1040.7	1039.5	1035.1	1030.7	1026.3
10°	1071.5	1069.2	1066.9	1064.6	1062.3	1060.0	1057.7	1055.4	1049.4	1043.3	1037.3
12.5°	1095.8	1092.3	1088.8	1085.2	1081.7	1078.2	1074.7	1071.2	1063.3	1055.4	1047.5
15°	1129.6	1123.2	1116.8	1110.5	1104.1	1097.7	1091.4	1085.0	1075.2	1065.5	1055.7
17.5°	1160.0	1151.5	1143.1	1134.6	1126.2	1117.7	1109.3	1100.8	1088.6	1076.4	1064.2
20°	1192.2	1181.5	1170.9	1160.2	1149.6	1138.9	1128.3	1117.6	1102.7	1087.7	1072.8
22.5°	1225.0	1212.5	1200.0	1187.4	1174.9	1162.4	1149.9	1137.4	1119.3	1101.2	1083.0
25°	1262.4	1247.4	1232.3	1217.3	1202.2	1187.2	1172.1	1157.1	1135.6	1114.1	1092.6
27.5°	1293.2	1276.7	1260.2	1243.8	1227.3	1210.8	1194.4	1177.9	1152.9	1127.8	1102.8
30°	1325.4	1306.7	1288.0	1269.4	1250.7	1232.0	1213.4	1194.7	1166.5	1138.3	1110.0
32.5°	1356.6	1335.7	1314.8	1294.0	1273.1	1252.2	1231.4	1210.5	1179.3	1148.1	1117.0
35°	1385.4	1362.7	1340.0	1317.2	1294.5	1271.8	1249.0	1226.3	1192.2	1158.0	1123.9
37.5°	1414.7	1390.4	1366.0	1341.6	1317.2	1292.9	1268.5	1244.1	1207.0	1169.9	1132.8
40°	1443.2	1416.7	1390.2	1363.8	1337.3	1310.8	1284.4	1257.9	1218.2	1178.4	1138.7
42.5°	1472.2	1443.4	1414.6	1385.9	1357.1	1328.3	1299.6	1270.8	1228.5	1186.2	1144.0
45°	1499.4	1468.4	1437.4	1406.5	1375.5	1344.5	1313.6	1282.6	1237.5	1192.4	1147.2
47.5°	1525.9	1492.4	1458.9	1425.5	1392.0	1358.5	1325.0	1291.5	1244.1	1196.6	1149.2
50°	1550.6	1514.5	1478.5	1442.5	1406.5	1370.4	1334.4	1298.4	1248.7	1198.9	1149.2
52.5°	1573.9	1535.3	1496.6	1458.0	1419.3	1380.7	1342.0	1303.4	1251.4	1199.3	1147.3
55°	1595.5	1554.4	1513.2	1472.0	1430.8	1389.7	1348.5	1307.3	1253.0	1198.6	1144.3
57.5°	1614.6	1571.2	1527.7	1484.2	1440.7	1397.3	1353.8	1310.3	1253.6	1197.0	1140.3
60°	1630.0	1584.4	1538.7	1493.0	1447.3	1401.7	1356.0	1310.3	1251.6	1192.8	1134.1
62.5°	1642.1	1594.6	1547.0	1499.5	1451.9	1404.4	1356.8	1309.3	1248.6	1187.9	1127.2
65°	1647.7	1598.5	1549.3	1500.2	1451.0	1401.8	1352.6	1303.4	1240.9	1178.4	1116.0
67.5°	1649.0	1598.5	1548.0	1497.5	1447.0	1396.5	1346.0	1295.5	1231.4	1167.3	1103.1
70°	1643.3	1591.9	1540.5	1489.2	1437.8	1386.4	1335.0	1283.6	1218.1	1152.5	1087.0
72.5°	1631.3	1579.4	1527.5	1475.5	1423.6	1371.7	1319.7	1267.8	1201.2	1134.5	1067.9
75°	1611.6	1559.7	1507.7	1455.8	1403.8	1351.9	1299.9	1248.0	1180.6	1113.2	1045.8
77.5°	1583.9	1532.0	1480.1	1428.1	1376.2	1324.3	1272.3	1220.4	1153.0	1085.6	1018.1
80°	1547.7	1496.4	1445.1	1393.9	1342.6	1291.3	1240.1	1188.8	1121.4	1054.0	986.5
82.5°	1512.2	1461.5	1410.8	1360.0	1309.3	1258.6	1207.8	1157.1	1090.1	1023.2	956.2
85°	1467.7	1418.0	1368.3	1318.5	1268.8	1219.1	1169.3	1119.6	1053.6	987.6	921.6
87.5°	1422.5	1373.9	1325.2	1276.6	1227.9	1179.3	1130.6	1082.0	1017.2	952.4	887.7
90°	1373.2	1326.1	1279.0	1231.9	1184.8	1137.7	1090.6	1043.5	980.4	917.2	854.1
92.5°	1339.4	1293.1	1246.9	1200.7	1154.5	1108.2	1062.0	1015.8	953.9	892.0	830.0
95°	1304.3	1259.3	1214.3	1169.2	1124.2	1079.2	1034.2	989.2	928.3	867.3	806.4
97.5°	1268.0	1224.0	1180.1	1136.2	1092.3	1048.3	1004.4	960.5	900.9	841.3	781.6
100°	1232.3	1189.4	1146.5	1103.5	1060.6	1017.7	974.7	931.8	873.2	814.6	755.9
102.5°	1196.8	1154.5	1112.1	1069.7	1027.3	985.0	942.6	900.2	842.8	785.4	727.9
105°	1161.1	1119.6	1078.1	1036.6	995.1	953.6	912.1	870.6	814.3	757.9	701.6
107.5°	1122.8	1082.4	1042.0	1001.5	961.1	920.7	880.3	839.9	784.7	729.5	674.2
110°	1082.7	1043.5	1004.3	965.1	925.9	886.7	847.5	808.3	754.2	700.1	645.9





TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	1040.4	1002.3	964.2	926.1	888.0	849.9	811.8	773.7	720.9	668.1	615.3
115°	995.6	958.9	922.1	885.3	848.5	811.8	775.0	738.2	686.7	635.2	583.7
117.5°	950.6	915.1	879.5	843.9	808.3	772.8	737.2	701.6	651.6	601.7	551.7
120°	899.0	865.3	831.6	797.9	764.2	730.5	696.8	663.1	614.6	566.0	517.5
122.5°	850.8	818.2	785.6	752.9	720.3	687.7	655.1	622.5	576.1	529.6	483.2
125°	799.9	768.5	737.1	705.7	674.3	642.9	611.5	580.1	536.0	491.8	447.7
127.5°	745.9	715.7	685.5	655.4	625.2	595.0	564.8	534.6	493.1	451.6	410.1
130°	692.4	663.1	633.8	604.4	575.1	545.8	516.5	487.2	448.5	409.9	371.2
132.5°	636.1	608.4	580.6	552.8	525.0	497.3	469.5	441.7	405.8	369.9	334.0
135°	578.8	553.0	527.2	501.4	475.6	449.8	424.0	398.2	364.9	331.7	298.4
137.5°	520.2	496.7	473.2	449.7	426.2	402.7	379.2	355.7	324.9	294.0	263.2
140°	463.9	442.3	420.8	399.3	377.8	356.2	334.7	313.2	284.5	255.9	227.2
142.5°	410.6	390.7	370.7	350.7	330.7	310.8	290.8	270.8	245.3	219.8	194.4
145°	359.2	340.6	322.1	303.5	285.0	266.4	247.9	229.3	207.0	184.7	162.4
147.5°	307.3	290.5	273.7	256.9	240.1	223.3	206.5	189.7	170.9	152.2	133.4
150°	258.2	243.1	227.9	212.8	197.6	182.5	167.3	152.2	136.8	121.4	106.1
152.5°	208.8	195.7	182.5	169.3	156.1	143.0	129.8	116.6	104.5	92.4	80.4
155°	158.5	146.9	135.3	123.6	112.0	100.4	88.7	77.1	69.0	60.9	52.7
157.5°	116.3	106.7	97.2	87.6	78.1	68.5	59.0	49.4	44.0	38.6	33.3
160°	74.2	67.9	61.5	55.1	48.7	42.4	36.0	29.6	26.3	23.0	19.7
162.5°	42.0	37.9	33.7	29.5	25.3	21.2	17.0	12.8	11.4	10.0	8.5
165°	19.5	17.4	15.3	13.3	11.2	9.1	7.0	4.9	4.4	3.8	3.3
167.5°	6.1	5.3	4.4	3.5	2.6	1.8	0.9	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: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	998.5	996.6	994.8	992.9	991.1	989.2	990.0	990.7	991.5	992.3	993.0
5°	1011.4	1008.4	1005.3	1002.2	999.2	996.1	995.7	995.2	994.8	994.3	993.9
7.5°	1021.9	1017.6	1013.2	1008.8	1004.4	1000.0	998.4	996.7	995.1	993.4	991.8
10°	1031.2	1025.2	1019.1	1013.1	1007.0	1001.0	998.0	995.1	992.1	989.1	986.2
12.5°	1039.6	1031.6	1023.7	1015.8	1007.9	1000.0	995.6	991.2	986.8	982.4	978.1
15°	1045.9	1036.2	1026.4	1016.6	1006.9	997.1	991.3	985.5	979.6	973.8	968.0
17.5°	1052.0	1039.9	1027.7	1015.5	1003.3	991.1	983.9	976.6	969.4	962.1	954.9
20°	1057.9	1042.9	1028.0	1013.1	998.1	983.2	974.4	965.6	956.9	948.1	939.3
22.5°	1064.9	1046.8	1028.7	1010.5	992.4	974.3	963.9	953.5	943.0	932.6	922.2
25°	1071.1	1049.5	1028.0	1006.5	985.0	963.5	951.3	939.1	926.9	914.7	902.6
27.5°	1077.8	1052.7	1027.7	1002.7	977.6	952.6	938.5	924.5	910.4	896.4	882.3
30°	1081.8	1053.6	1025.4	997.1	968.9	940.7	924.5	908.2	892.0	875.7	859.5
32.5°	1085.8	1054.6	1023.4	992.3	961.1	929.9	911.3	892.8	874.2	855.7	837.1
35°	1089.7	1055.6	1021.4	987.3	953.1	919.0	897.7	876.4	855.1	833.8	812.5
37.5°	1095.7	1058.5	1021.4	984.3	947.2	910.1	885.9	861.8	837.6	813.5	789.3
40°	1098.9	1059.2	1019.4	979.7	939.9	900.2	873.0	845.8	818.5	791.3	764.1
42.5°	1101.7	1059.4	1017.1	974.9	932.6	890.3	860.1	829.9	799.7	769.5	739.4
45°	1102.1	1057.0	1011.9	966.7	921.6	876.5	843.6	810.6	777.7	744.8	711.8
47.5°	1101.8	1054.3	1006.9	959.5	912.0	864.6	828.7	792.8	756.9	721.0	685.1
50°	1099.5	1049.7	1000.0	950.3	900.5	850.8	812.0	773.3	734.5	695.8	657.0
52.5°	1095.2	1043.2	991.1	939.1	887.0	835.0	793.6	752.2	710.8	669.4	628.1
55°	1089.9	1035.6	981.2	926.9	872.5	818.2	774.4	730.6	686.8	643.0	599.1
57.5°	1083.7	1027.0	970.4	913.7	857.1	800.4	754.2	708.0	661.7	615.5	569.3
60°	1075.3	1016.6	957.8	899.1	840.3	781.6	733.1	684.6	636.0	587.5	539.0
62.5°	1066.5	1005.7	945.0	884.3	823.6	762.9	712.3	661.7	611.0	560.4	509.8
65°	1053.5	991.0	928.5	866.1	803.6	741.1	688.6	636.1	583.7	531.2	478.7
67.5°	1039.0	974.9	910.8	846.6	782.5	718.4	664.1	609.7	555.4	501.0	446.7
70°	1021.4	955.9	890.3	824.8	759.2	693.7	638.0	582.4	526.7	471.0	415.4
72.5°	1001.2	934.6	867.9	801.3	734.6	668.0	611.2	554.5	497.7	440.9	384.2
75°	978.4	910.9	843.5	776.1	708.7	641.3	583.8	526.2	468.7	411.2	353.6
77.5°	950.7	883.3	815.9	748.4	681.0	613.6	555.6	497.7	439.7	381.7	323.8
80°	919.1	851.7	784.3	716.8	649.4	582.0	524.4	466.7	409.1	351.4	293.8
82.5°	889.2	822.3	755.3	688.3	621.4	554.4	497.1	439.8	382.4	325.1	267.8
85°	855.6	789.7	723.7	657.7	591.7	525.7	469.3	412.8	356.4	300.0	243.5
87.5°	822.9	758.1	693.3	628.6	563.8	499.0	443.9	388.8	333.7	278.6	223.4
90°	791.0	727.8	664.7	601.6	538.4	475.3	422.5	369.7	316.9	264.1	211.2
92.5°	768.1	706.2	644.3	582.3	520.4	458.5	407.6	356.6	305.7	254.7	203.8
95°	745.4	684.5	623.5	562.6	501.6	440.7	391.7	342.8	293.8	244.8	195.9
97.5°	722.0	662.4	602.8	543.1	483.5	423.9	376.8	329.7	282.6	235.5	188.4
100°	697.3	638.7	580.1	521.4	462.8	404.2	359.3	314.4	269.5	224.6	179.6
102.5°	670.5	613.1	555.7	498.2	440.8	383.4	340.8	298.2	255.6	213.0	170.4
105°	645.3	588.9	532.6	476.3	419.9	363.6	323.2	282.8	242.4	202.0	161.6
107.5°	619.0	563.8	508.6	453.3	398.1	342.9	304.8	266.7	228.6	190.5	152.4
110°	591.8	537.7	483.6	429.4	375.3	321.2	285.5	249.8	214.1	178.4	142.8



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	562.5	509.6	456.8	404.0	351.2	298.4	265.2	232.1	198.9	165.8	132.6
115°	532.2	480.7	429.2	377.7	326.2	274.7	244.2	213.7	183.1	152.6	122.1
117.5°	501.8	451.8	401.9	351.9	302.0	252.0	224.0	196.0	168.0	140.0	112.0
120°	469.0	420.4	371.9	323.4	274.8	226.3	201.2	176.0	150.9	125.7	100.6
122.5°	436.7	390.3	343.8	297.4	250.9	204.5	181.8	159.1	136.3	113.6	90.9
125°	403.5	359.4	315.2	271.1	226.9	182.8	162.5	142.2	121.9	101.6	81.2
127.5°	368.6	327.1	285.6	244.1	202.6	161.1	143.2	125.3	107.4	89.5	71.6
130°	332.6	293.9	255.3	216.6	178.0	139.3	123.8	108.3	92.9	77.4	61.9
132.5°	298.1	262.2	226.3	190.4	154.5	118.6	105.4	92.2	79.1	65.9	52.7
135°	265.1	231.9	198.6	165.3	132.1	98.8	87.8	76.8	65.9	54.9	43.9
137.5°	232.3	201.5	170.6	139.8	108.9	78.1	69.4	60.7	52.1	43.4	34.7
140°	198.6	169.9	141.3	112.6	84.0	55.3	49.2	43.0	36.9	30.7	24.6
142.5°	168.9	143.4	117.9	92.5	67.0	41.5	36.9	32.3	27.7	23.1	18.4
145°	140.1	117.9	95.6	73.3	51.0	28.7	25.5	22.3	19.1	15.9	12.8
147.5°	114.6	95.9	77.1	58.3	39.6	20.8	18.5	16.2	13.9	11.6	9.2
150°	90.7	75.3	59.9	44.6	29.2	13.8	12.3	10.7	9.2	7.7	6.1
152.5°	68.3	56.2	44.1	32.1	20.0	7.9	7.0	6.1	5.3	4.4	3.5
155°	44.6	36.5	28.4	20.2	12.1	4.0	3.6	3.1	2.7	2.2	1.8
157.5°	27.9	22.5	17.1	11.8	6.4	1.0	0.9	0.8	0.7	0.6	0.4
160°	16.4	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	7.1	5.7	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.7	2.2	1.6	1.1	0.5	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: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	993.8	994.6	995.3	996.1	993.7	991.3	988.8	986.4	984.0	981.6	979.1
5°	993.4	993.0	992.5	992.1	988.8	985.5	982.2	978.9	975.7	972.4	969.1
7.5°	990.1	988.5	986.8	985.2	981.1	977.1	973.0	968.9	964.9	960.8	956.7
10°	983.2	980.2	977.3	974.3	969.7	965.1	960.5	955.9	951.2	946.6	942.0
12.5°	973.7	969.3	964.9	960.5	955.6	950.6	945.7	940.7	935.8	930.8	925.9
15°	962.2	956.3	950.5	944.7	939.5	934.4	929.2	924.0	918.9	913.7	908.5
17.5°	947.6	940.4	933.1	925.9	920.9	915.8	910.8	905.7	900.7	895.6	890.6
20°	930.5	921.8	913.0	904.2	899.5	894.8	890.0	885.3	880.6	875.9	871.1
22.5°	911.8	901.3	890.9	880.5	876.3	872.1	868.0	863.8	859.6	855.4	851.3
25°	890.4	878.2	866.0	853.8	850.4	847.0	843.6	840.2	836.7	833.3	829.9
27.5°	868.3	854.2	840.2	826.1	823.9	821.7	819.5	817.3	815.1	812.9	810.7
30°	843.2	827.0	810.7	794.5	793.9	793.4	792.8	792.3	791.7	791.2	790.6
32.5°	818.6	800.0	781.5	762.9	764.3	765.7	767.2	768.6	770.0	771.4	772.9
35°	791.2	769.9	748.6	727.3	731.1	735.0	738.8	742.7	746.5	750.4	754.2
37.5°	765.2	741.0	716.9	692.7	698.8	705.0	711.1	717.3	723.4	729.6	735.7
40°	736.9	709.6	682.4	655.2	663.6	672.1	680.5	689.0	697.4	705.9	714.3
42.5°	709.2	679.0	648.8	618.6	629.5	640.3	651.2	662.1	672.9	683.8	694.7
45°	678.9	646.0	613.0	580.1	593.3	606.4	619.6	632.8	645.9	659.1	672.3
47.5°	649.2	613.3	577.4	541.5	557.1	572.7	588.3	603.9	619.4	635.0	650.6
50°	618.3	579.5	540.8	502.0	519.9	537.8	555.7	573.6	591.5	609.4	627.3
52.5°	586.7	545.3	503.9	462.5	482.4	502.2	522.1	542.0	561.8	581.7	601.6
55°	555.3	511.5	467.7	423.9	446.0	468.0	490.1	512.2	534.2	556.3	578.4
57.5°	523.1	476.8	430.6	384.4	408.8	433.2	457.5	481.9	506.3	530.7	555.0
60°	490.5	441.9	393.4	344.9	371.0	397.2	423.3	449.4	475.6	501.7	527.8
62.5°	459.2	408.5	357.9	307.3	335.4	363.5	391.6	419.7	447.9	476.0	504.1
65°	426.2	373.8	321.3	268.8	298.4	328.1	357.7	387.4	417.0	446.7	476.3
67.5°	392.3	338.0	283.6	229.3	260.8	292.3	323.8	355.3	386.9	418.4	449.9
70°	359.7	304.0	248.4	192.7	225.4	258.1	290.9	323.6	356.3	389.0	421.8
72.5°	327.4	270.6	213.9	157.1	190.7	224.3	257.9	291.5	325.1	358.7	392.3
75°	296.1	238.6	181.0	123.5	157.8	192.0	226.3	260.5	294.8	329.0	363.3
77.5°	265.8	207.8	149.9	91.9	126.6	161.3	196.0	230.7	265.4	300.1	334.8
80°	236.1	178.5	120.8	63.2	98.0	132.8	167.6	202.4	237.3	272.1	306.9
82.5°	210.5	153.1	95.8	38.5	73.0	107.5	141.9	176.4	210.9	245.4	279.8
85°	187.1	130.7	74.2	17.8	51.6	85.4	119.2	153.0	186.9	220.7	254.5
87.5°	168.3	113.2	58.1	3.0	36.0	69.1	102.1	135.2	168.2	201.3	234.3
90°	158.4	105.6	52.8	0.0	31.5	63.0	94.5	126.0	157.6	189.1	220.6
92.5°	152.8	101.9	50.9	0.0	30.1	60.2	90.3	120.4	150.4	180.5	210.6
95°	146.9	97.9	49.0	0.0	28.5	57.1	85.6	114.2	142.7	171.3	199.8
97.5°	141.3	94.2	47.1	0.0	26.9	53.8	80.7	107.6	134.5	161.4	188.3
100°	134.7	89.8	44.9	0.0	25.0	50.1	75.1	100.1	125.2	150.2	175.2
102.5°	127.8	85.2	42.6	0.0	23.5	47.0	70.5	94.0	117.5	141.0	164.5
105°	121.2	80.8	40.4	0.0	21.8	43.7	65.5	87.4	109.2	131.1	152.9
107.5°	114.3	76.2	38.1	0.0	20.2	40.4	60.6	80.8	101.0	121.2	141.4
110°	107.1	71.4	35.7	0.0	18.6	37.1	55.7	74.2	92.8	111.3	129.9



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	99.5	66.3	33.2	0.0	16.9	33.8	50.7	67.6	84.6	101.5	118.4
115°	91.6	61.0	30.5	0.0	15.3	30.5	45.8	61.1	76.3	91.6	106.9
117.5°	84.0	56.0	28.0	0.0	13.6	27.2	40.8	54.4	68.1	81.7	95.3
120°	75.4	50.3	25.1	0.0	12.1	24.2	36.2	48.3	60.4	72.5	84.5
122.5°	68.2	45.4	22.7	0.0	10.4	20.9	31.3	41.7	52.2	62.6	73.0
125°	60.9	40.6	20.3	0.0	8.8	17.6	26.4	35.2	43.9	52.7	61.5
127.5°	53.7	35.8	17.9	0.0	7.1	14.3	21.4	28.5	35.7	42.8	49.9
130°	46.4	31.0	15.5	0.0	5.6	11.2	16.8	22.4	28.0	33.6	39.2
132.5°	39.5	26.4	13.2	0.0	4.2	8.4	12.5	16.7	20.9	25.1	29.2
135°	32.9	22.0	11.0	0.0	3.0	5.9	8.9	11.9	14.8	17.8	20.8
137.5°	26.0	17.4	8.7	0.0	2.0	4.0	5.9	7.9	9.9	11.9	13.8
140°	18.4	12.3	6.1	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7
142.5°	13.8	9.2	4.6	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8
145°	9.6	6.4	3.2	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
147.5°	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	976.7	974.3	973.8	973.2	972.7	972.1	971.6	971.0	970.5	969.9	969.4
5°	965.8	962.5	961.4	960.3	959.2	958.1	957.0	955.9	954.8	953.7	952.6
7.5°	952.7	948.6	947.4	946.2	945.0	943.8	942.6	941.4	940.2	939.0	937.8
10°	937.4	932.8	931.8	930.8	929.8	928.8	927.9	926.9	925.9	924.9	923.9
12.5°	920.9	916.0	915.8	915.6	915.4	915.2	914.9	914.7	914.5	914.3	914.1
15°	903.4	898.2	899.3	900.4	901.5	902.6	903.7	904.8	905.9	907.0	908.1
17.5°	885.5	880.5	883.7	886.9	890.0	893.2	896.4	899.6	902.7	905.9	909.1
20°	866.4	861.7	868.1	874.4	880.8	887.2	893.5	899.9	906.3	912.6	919.0
22.5°	847.1	842.9	852.3	861.8	871.2	880.7	890.1	899.6	909.0	918.5	927.9
25°	826.5	823.1	835.6	848.1	860.7	873.2	885.7	898.2	910.8	923.3	935.8
27.5°	808.5	806.3	821.5	836.6	851.8	866.9	882.1	897.2	912.4	927.5	942.7
30°	790.1	789.5	807.2	824.9	842.5	860.2	877.9	895.6	913.2	930.9	948.6
32.5°	774.3	775.7	795.4	815.0	834.7	854.3	874.0	893.6	913.3	932.9	952.6
35°	758.1	761.9	783.3	804.7	826.1	847.5	869.0	890.4	911.8	933.2	954.6
37.5°	741.9	748.0	771.3	794.6	817.8	841.1	864.4	887.7	910.9	934.2	957.5
40°	722.8	731.2	756.5	781.7	807.0	832.2	857.5	882.7	908.0	933.2	958.5
42.5°	705.5	716.4	743.3	770.2	797.1	824.0	850.9	877.8	904.7	931.6	958.5
45°	685.4	698.6	727.5	756.4	785.2	814.1	843.0	871.9	900.7	929.6	958.5
47.5°	666.2	681.8	712.4	743.1	773.7	804.3	835.0	865.6	896.2	926.9	957.5
50°	645.2	663.1	695.6	728.1	760.6	793.1	825.6	858.1	890.6	923.1	955.6
52.5°	621.4	641.3	675.9	710.5	745.1	779.7	814.2	848.8	883.4	918.0	952.6
55°	600.4	622.5	658.7	695.0	731.2	767.4	803.7	839.9	876.1	912.4	948.6
57.5°	579.4	603.8	641.8	679.8	717.8	755.8	793.7	831.7	869.7	907.7	945.7
60°	554.0	580.1	620.3	660.5	700.6	740.8	781.0	821.2	861.3	901.5	941.7
62.5°	532.2	560.3	602.1	644.0	685.8	727.6	769.5	811.3	853.1	895.0	936.8
65°	506.0	535.6	579.5	623.4	667.3	711.2	755.2	799.1	843.0	886.9	930.8
67.5°	481.4	512.9	558.4	603.8	649.3	694.7	740.2	785.6	831.1	876.5	922.0
70°	454.5	487.2	534.0	580.7	627.5	674.3	721.0	767.8	814.6	861.3	908.1
72.5°	425.9	459.5	507.0	554.6	602.1	649.7	697.2	744.8	792.3	839.9	887.4
75°	397.5	431.8	479.3	526.9	574.4	622.0	669.5	717.1	764.6	812.2	859.7
77.5°	369.5	404.2	451.1	498.0	544.8	591.7	638.6	685.5	732.3	779.2	826.1
80°	341.7	376.5	422.2	467.9	513.5	559.2	604.9	650.6	696.2	741.9	787.6
82.5°	314.3	348.8	393.3	437.7	482.2	526.7	571.1	615.6	660.1	704.5	749.0
85°	288.3	322.1	365.3	408.4	451.6	494.7	537.9	581.0	624.2	667.3	710.5
87.5°	267.4	300.4	342.1	383.8	425.6	467.3	509.0	550.7	592.5	634.2	675.9
90°	252.1	283.6	324.1	364.6	405.1	445.6	486.2	526.7	567.2	607.7	648.2
92.5°	240.7	270.8	310.0	349.2	388.4	427.6	466.7	505.9	545.1	584.3	623.5
95°	228.4	256.9	295.2	333.5	371.9	410.2	448.5	486.8	525.2	563.5	601.8
97.5°	215.2	242.1	279.5	317.0	354.4	391.9	429.3	466.8	504.2	541.7	579.1
100°	200.3	225.3	262.2	299.1	336.0	372.9	409.7	446.6	483.5	520.4	557.3
102.5°	188.0	211.5	247.4	283.3	319.2	355.1	391.0	426.9	462.8	498.7	534.6
105°	174.8	196.6	231.6	266.7	301.7	336.7	371.8	406.8	441.8	476.9	511.9
107.5°	161.6	181.8	215.7	249.7	283.6	317.5	351.5	385.4	419.3	453.3	487.2
110°	148.4	167.0	199.8	232.7	265.5	298.3	331.2	364.0	396.8	429.7	462.5



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	135.3	152.2	184.0	215.9	247.7	279.5	311.4	343.2	375.0	406.9	438.7
115°	122.1	137.4	168.0	198.7	229.3	259.9	290.6	321.2	351.8	382.5	413.1
117.5°	108.9	122.5	151.9	181.4	210.8	240.2	269.7	299.1	328.5	358.0	387.4
120°	96.6	108.7	136.8	164.9	193.0	221.1	249.3	277.4	305.5	333.6	361.7
122.5°	83.5	93.9	120.7	147.5	174.3	201.1	227.8	254.6	281.4	308.2	335.0
125°	70.3	79.1	104.5	129.8	155.2	180.5	205.9	231.2	256.6	281.9	307.3
127.5°	57.1	64.2	87.8	111.4	135.0	158.6	182.3	205.9	229.5	253.1	276.7
130°	44.8	50.4	71.9	93.4	115.0	136.5	158.0	179.5	201.1	222.6	244.1
132.5°	33.4	37.6	56.7	75.8	94.9	114.0	133.1	152.2	171.3	190.4	209.5
135°	23.7	26.7	43.6	60.5	77.4	94.3	111.3	128.2	145.1	162.0	178.9
137.5°	15.8	17.8	32.5	47.2	61.9	76.6	91.4	106.1	120.8	135.5	150.2
140°	8.8	9.9	22.6	35.4	48.1	60.8	73.6	86.3	99.0	111.8	124.5
142.5°	4.4	4.9	15.6	26.2	36.9	47.5	58.2	68.8	79.5	90.1	100.8
145°	1.8	2.0	10.3	18.7	27.0	35.4	43.7	52.1	60.4	68.8	77.1
147.5°	0.0	0.0	6.4	12.7	19.1	25.5	31.8	38.2	44.6	50.9	57.3
150°	0.0	0.0	4.4	8.8	13.2	17.6	21.9	26.3	30.7	35.1	39.5
152.5°	0.0	0.0	2.7	5.5	8.2	11.0	13.7	16.5	19.2	22.0	24.7
155°	0.0	0.0	1.4	2.8	4.3	5.7	7.1	8.5	10.0	11.4	12.8
157.5°	0.0	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	968.3	967.2	966.1	965.0	963.9	962.8	961.7	960.6	959.5	958.7	958.0
5°	951.4	950.2	949.0	947.8	946.5	945.3	944.1	942.9	941.7	941.4	941.1
7.5°	936.9	936.0	935.2	934.3	933.4	932.5	931.7	930.8	929.9	929.7	929.5
10°	924.0	924.1	924.2	924.3	924.5	924.6	924.7	924.8	924.9	924.9	924.9
12.5°	915.6	917.2	918.7	920.2	921.8	923.3	924.8	926.4	927.9	928.7	929.4
15°	912.2	916.2	920.3	924.4	928.4	932.5	936.6	940.6	944.7	946.5	948.2
17.5°	915.5	921.8	928.2	934.6	940.9	947.3	953.7	960.0	966.4	968.7	971.0
20°	926.6	934.2	941.7	949.3	956.9	964.5	972.0	979.6	987.2	989.9	992.7
22.5°	936.6	945.2	953.9	962.6	971.2	979.9	988.6	997.2	1005.9	1009.1	1012.3
25°	945.7	955.6	965.4	975.3	985.2	995.1	1004.9	1014.8	1024.7	1028.2	1031.7
27.5°	953.8	964.9	976.0	987.1	998.1	1009.2	1020.3	1031.4	1042.5	1046.6	1050.6
30°	960.8	973.0	985.2	997.4	1009.5	1021.7	1033.9	1046.1	1058.3	1063.1	1068.0
32.5°	966.3	980.0	993.8	1007.5	1021.2	1034.9	1048.7	1062.4	1076.1	1081.5	1086.9
35°	969.7	984.9	1000.0	1015.2	1030.3	1045.5	1060.6	1075.8	1090.9	1097.2	1103.4
37.5°	974.1	990.7	1007.2	1023.8	1040.4	1057.0	1073.5	1090.1	1106.7	1113.7	1120.8
40°	976.7	995.0	1013.2	1031.4	1049.7	1067.9	1086.1	1104.4	1122.6	1130.4	1138.2
42.5°	978.5	998.5	1018.5	1038.5	1058.4	1078.4	1098.4	1118.4	1138.4	1147.2	1156.0
45°	980.4	1002.2	1024.1	1045.9	1067.8	1089.6	1111.5	1133.3	1155.2	1164.9	1174.5
47.5°	981.3	1005.2	1029.0	1052.8	1076.7	1100.5	1124.3	1148.2	1172.0	1182.8	1193.5
50°	981.6	1007.6	1033.6	1059.6	1085.7	1111.7	1137.7	1163.7	1189.7	1201.3	1213.0
52.5°	980.9	1009.2	1037.6	1065.9	1094.2	1122.5	1150.9	1179.2	1207.5	1220.1	1232.8
55°	979.2	1009.9	1040.5	1071.1	1101.8	1132.4	1163.0	1193.7	1224.3	1237.8	1251.3
57.5°	978.5	1011.3	1044.2	1077.0	1109.8	1142.6	1175.5	1208.3	1241.1	1255.0	1269.0
60°	976.4	1011.1	1045.8	1080.5	1115.2	1149.9	1184.6	1219.3	1254.0	1268.4	1282.8
62.5°	973.0	1009.3	1045.5	1081.7	1118.0	1154.2	1190.4	1226.7	1262.9	1277.5	1292.1
65°	968.0	1005.2	1042.5	1079.7	1116.9	1154.1	1191.4	1228.6	1265.8	1280.6	1295.4
67.5°	959.9	997.8	1035.6	1073.5	1111.4	1149.3	1187.1	1225.0	1262.9	1277.7	1292.5
70°	946.3	984.5	1022.7	1060.9	1099.2	1137.4	1175.6	1213.8	1252.0	1266.6	1281.2
72.5°	925.3	963.2	1001.0	1038.9	1076.8	1114.7	1152.5	1190.4	1228.3	1242.7	1257.1
75°	896.9	934.1	971.4	1008.6	1045.8	1083.0	1120.3	1157.5	1194.7	1208.4	1222.1
77.5°	862.9	899.7	936.4	973.2	1010.0	1046.8	1083.5	1120.3	1157.1	1169.8	1182.6
80°	823.3	859.0	894.6	930.3	966.0	1001.7	1037.3	1073.0	1108.7	1121.1	1133.5
82.5°	783.4	817.7	852.1	886.5	920.8	955.2	989.6	1023.9	1058.3	1070.5	1082.7
85°	743.7	776.8	810.0	843.1	876.3	909.4	942.6	975.7	1008.9	1020.9	1032.8
87.5°	707.9	739.8	771.8	803.7	835.7	867.6	899.6	931.5	963.5	975.1	986.8
90°	678.8	709.5	740.1	770.7	801.4	832.0	862.6	893.3	923.9	935.2	946.5
92.5°	653.3	683.0	712.8	742.5	772.3	802.0	831.8	861.5	891.3	902.0	912.6
95°	630.2	658.7	687.1	715.5	744.0	772.4	800.8	829.3	857.7	868.2	878.8
97.5°	606.5	634.0	661.4	688.9	716.3	743.8	771.2	798.7	826.1	836.4	846.7
100°	584.0	610.7	637.3	664.0	690.7	717.4	744.0	770.7	797.4	807.4	817.4
102.5°	560.7	586.9	613.0	639.1	665.3	691.4	717.5	743.7	769.8	779.5	789.1
105°	537.4	562.8	588.3	613.8	639.2	664.7	690.2	715.6	741.1	750.5	760.0
107.5°	512.0	536.8	561.6	586.4	611.3	636.1	660.9	685.7	710.5	719.8	729.2
110°	486.7	510.8	535.0	559.1	583.3	607.4	631.6	655.7	679.9	688.9	697.9





TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	461.9	485.0	508.2	531.4	554.5	577.7	600.9	624.0	647.2	656.0	664.8
115°	435.5	457.9	480.3	502.7	525.0	547.4	569.8	592.2	614.6	623.2	631.7
117.5°	409.0	430.6	452.3	473.9	495.5	517.1	538.8	560.4	582.0	590.2	598.5
120°	382.4	403.2	423.9	444.7	465.4	486.2	506.9	527.7	548.4	556.4	564.4
122.5°	355.0	375.0	394.9	414.9	434.9	454.9	474.8	494.8	514.8	522.6	530.4
125°	326.4	345.5	364.6	383.7	402.9	422.0	441.1	460.2	479.3	486.8	494.2
127.5°	295.1	313.6	332.0	350.5	368.9	387.4	405.8	424.3	442.7	449.9	457.2
130°	262.2	280.3	298.4	316.5	334.7	352.8	370.9	389.0	407.1	413.9	420.7
132.5°	227.3	245.1	262.9	280.7	298.4	316.2	334.0	351.8	369.6	376.2	382.8
135°	196.0	213.1	230.3	247.4	264.5	281.6	298.8	315.9	333.0	339.0	345.1
137.5°	166.2	182.3	198.3	214.3	230.4	246.4	262.4	278.5	294.5	300.6	306.8
140°	138.9	153.3	167.7	182.1	196.4	210.8	225.2	239.6	254.0	260.4	266.7
142.5°	113.1	125.4	137.7	150.0	162.3	174.6	186.9	199.2	211.5	218.5	225.5
145°	87.9	98.6	109.4	120.1	130.9	141.6	152.4	163.1	173.9	180.9	188.0
147.5°	66.4	75.5	84.6	93.7	102.9	112.0	121.1	130.2	139.3	146.0	152.7
150°	47.1	54.7	62.2	69.8	77.4	85.0	92.5	100.1	107.7	114.2	120.7
152.5°	31.1	37.4	43.8	50.2	56.5	62.9	69.3	75.6	82.0	87.6	93.2
155°	17.6	22.5	27.3	32.1	37.0	41.8	46.6	51.5	56.3	61.1	66.0
157.5°	7.4	10.8	14.2	17.6	21.0	24.4	27.8	31.2	34.6	38.6	42.5
160°	1.9	3.7	5.6	7.5	9.3	11.2	13.1	14.9	16.8	19.7	22.5
162.5°	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	5.8	7.5
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	957.2	956.4	955.7	954.9	954.1	953.4	952.6	953.5	954.4	955.2	956.1
5°	940.7	940.4	940.1	939.8	939.4	939.1	938.8	939.1	939.4	939.8	940.1
7.5°	929.2	929.0	928.8	928.6	928.3	928.1	927.9	928.0	928.1	928.2	928.3
10°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.6	924.3	923.9	923.6
12.5°	930.2	931.0	931.7	932.5	933.3	934.0	934.8	933.6	932.4	931.2	930.0
15°	950.0	951.7	953.5	955.2	957.0	958.7	960.5	958.5	956.5	954.6	952.6
17.5°	973.3	975.6	978.0	980.3	982.6	984.9	987.2	984.8	982.4	979.9	977.5
20°	995.4	998.2	1000.9	1003.7	1006.4	1009.2	1011.9	1008.7	1005.5	1002.3	999.1
22.5°	1015.5	1018.7	1021.8	1025.0	1028.2	1031.4	1034.6	1030.9	1027.1	1023.4	1019.7
25°	1035.2	1038.7	1042.3	1045.8	1049.3	1052.8	1056.3	1052.2	1048.2	1044.1	1040.1
27.5°	1054.7	1058.8	1062.8	1066.9	1071.0	1075.0	1079.1	1074.6	1070.1	1065.6	1061.1
30°	1072.8	1077.6	1082.5	1087.3	1092.1	1097.0	1101.8	1096.5	1091.3	1086.0	1080.7
32.5°	1092.2	1097.6	1103.0	1108.4	1113.7	1119.1	1124.5	1118.8	1113.1	1107.4	1101.7
35°	1109.7	1116.0	1122.2	1128.5	1134.8	1141.0	1147.3	1140.9	1134.5	1128.2	1121.8
37.5°	1127.8	1134.8	1141.9	1148.9	1155.9	1163.0	1170.0	1163.0	1155.9	1148.9	1141.9
40°	1146.0	1153.8	1161.5	1169.3	1177.1	1184.9	1192.7	1185.0	1177.3	1169.6	1161.9
42.5°	1164.7	1173.5	1182.3	1191.1	1199.8	1208.6	1217.4	1209.1	1200.7	1192.4	1184.0
45°	1184.2	1193.8	1203.5	1213.1	1222.8	1232.4	1242.1	1233.0	1223.9	1214.8	1205.7
47.5°	1204.3	1215.0	1225.8	1236.5	1247.3	1258.0	1268.8	1258.8	1248.8	1238.8	1228.8
50°	1224.6	1236.3	1247.9	1259.6	1271.2	1282.9	1294.5	1283.7	1273.0	1262.2	1251.5
52.5°	1245.4	1258.0	1270.7	1283.3	1295.9	1308.6	1321.2	1309.7	1298.1	1286.6	1275.1
55°	1264.8	1278.3	1291.9	1305.4	1318.9	1332.4	1345.9	1333.6	1321.3	1309.0	1296.7
57.5°	1282.9	1296.9	1310.8	1324.8	1338.7	1352.7	1366.6	1354.0	1341.4	1328.7	1316.1
60°	1297.1	1311.5	1325.9	1340.3	1354.6	1369.0	1383.4	1370.4	1357.5	1344.5	1331.6
62.5°	1306.7	1321.3	1335.9	1350.5	1365.1	1379.7	1394.3	1381.3	1368.4	1355.4	1342.5
65°	1310.3	1325.1	1339.9	1354.7	1369.6	1384.4	1399.2	1386.1	1373.1	1360.0	1346.9
67.5°	1307.4	1322.2	1337.0	1351.8	1366.7	1381.5	1396.3	1383.3	1370.4	1357.4	1344.5
70°	1295.8	1310.4	1325.0	1339.6	1354.2	1368.8	1383.4	1370.4	1357.5	1344.5	1331.6
72.5°	1271.4	1285.8	1300.2	1314.6	1328.9	1343.3	1357.7	1345.0	1332.2	1319.5	1306.8
75°	1235.9	1249.6	1263.3	1277.0	1290.8	1304.5	1318.2	1306.1	1294.0	1282.0	1269.9
77.5°	1195.3	1208.1	1220.8	1233.6	1246.3	1259.1	1271.8	1260.0	1248.3	1236.5	1224.8
80°	1145.9	1158.3	1170.8	1183.2	1195.6	1208.0	1220.4	1208.9	1197.3	1185.8	1174.3
82.5°	1094.9	1107.1	1119.2	1131.4	1143.6	1155.8	1168.0	1156.7	1145.4	1134.1	1122.8
85°	1044.8	1056.8	1068.7	1080.7	1092.7	1104.6	1116.6	1105.3	1094.0	1082.7	1071.4
87.5°	998.4	1010.0	1021.7	1033.3	1044.9	1056.6	1068.2	1057.1	1046.0	1034.9	1023.8
90°	957.8	969.1	980.5	991.8	1003.1	1014.4	1025.7	1014.9	1004.2	993.4	982.7
92.5°	923.3	933.9	944.6	955.2	965.9	976.5	987.2	976.9	966.6	956.2	945.9
95°	889.3	899.9	910.4	921.0	931.5	942.1	952.6	942.6	932.6	922.6	912.6
97.5°	857.1	867.4	877.7	888.0	898.4	908.7	919.0	909.3	899.7	890.0	880.3
100°	827.4	837.4	847.4	857.4	867.4	877.4	887.4	878.1	868.7	859.4	850.1
102.5°	798.8	808.4	818.1	827.7	837.4	847.0	856.7	847.5	838.3	829.0	819.8
105°	769.4	778.9	788.3	797.8	807.2	816.7	826.1	817.2	808.3	799.4	790.5
107.5°	738.5	747.8	757.2	766.5	775.8	785.2	794.5	785.6	776.7	767.8	758.9
110°	706.9	715.9	724.9	733.9	742.9	751.9	760.9	752.2	743.5	734.9	726.2



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	673.6	682.4	691.1	699.9	708.7	717.5	726.3	717.8	709.4	700.9	692.5
115°	640.3	648.9	657.4	666.0	674.6	683.1	691.7	683.5	675.2	667.0	658.8
117.5°	606.7	614.9	623.2	631.4	639.6	647.9	656.1	648.3	640.5	632.7	624.9
120°	572.5	580.5	588.5	596.5	604.6	612.6	620.6	613.0	605.4	597.9	590.3
122.5°	538.2	546.0	553.8	561.6	569.4	577.2	585.0	577.6	570.3	562.9	555.6
125°	501.7	509.2	516.6	524.1	531.6	539.0	546.5	539.6	532.7	525.7	518.8
127.5°	464.4	471.7	478.9	486.2	493.4	500.7	507.9	501.4	494.9	488.5	482.0
130°	427.5	434.3	441.2	448.0	454.8	461.6	468.4	462.3	456.1	450.0	443.8
132.5°	389.4	396.0	402.5	409.1	415.7	422.3	428.9	423.1	417.3	411.4	405.6
135°	351.1	357.2	363.2	369.3	375.3	381.4	387.4	382.2	377.1	371.9	366.7
137.5°	312.9	319.1	325.2	331.4	337.5	343.7	349.8	345.0	340.1	335.3	330.5
140°	273.1	279.5	285.8	292.2	298.6	304.9	311.3	306.9	302.5	298.1	293.7
142.5°	232.6	239.6	246.6	253.6	260.7	267.7	274.7	270.6	266.6	262.5	258.4
145°	195.0	202.0	209.1	216.1	223.1	230.2	237.2	233.5	229.7	226.0	222.3
147.5°	159.4	166.1	172.8	179.5	186.2	192.9	199.6	196.5	193.4	190.4	187.3
150°	127.1	133.6	140.1	146.6	153.0	159.5	166.0	163.1	160.3	157.4	154.6
152.5°	98.8	104.4	110.0	115.6	121.2	126.8	132.4	129.9	127.4	124.8	122.3
155°	70.8	75.6	80.5	85.3	90.1	95.0	99.8	97.8	95.8	93.9	91.9
157.5°	46.5	50.4	54.4	58.3	62.3	66.2	70.2	68.5	66.9	65.2	63.6
160°	25.4	28.2	31.1	33.9	36.8	39.6	42.5	41.4	40.3	39.2	38.1
162.5°	9.3	11.0	12.8	14.5	16.3	18.0	19.8	19.2	18.7	18.1	17.6
165°	1.6	2.2	2.7	3.3	3.8	4.4	4.9	4.9	4.9	4.9	4.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	957.0	957.9	958.7	959.6	960.5	961.9	963.3	964.8	966.2	967.6	969.0
5°	940.4	940.7	941.1	941.4	941.7	943.3	945.0	946.6	948.3	949.9	951.6
7.5°	928.5	928.6	928.7	928.8	928.9	930.3	931.7	933.2	934.6	936.0	937.4
10°	923.3	923.0	922.6	922.3	922.0	922.9	923.8	924.6	925.5	926.4	927.3
12.5°	928.7	927.5	926.3	925.1	923.9	923.6	923.3	922.9	922.6	922.3	922.0
15°	950.6	948.6	946.7	944.7	942.7	939.7	936.8	933.8	930.8	927.9	924.9
17.5°	975.1	972.7	970.2	967.8	965.4	960.0	954.6	949.3	943.9	938.5	933.1
20°	996.0	992.8	989.6	986.4	983.2	976.7	970.2	963.8	957.3	950.8	944.3
22.5°	1015.9	1012.2	1008.5	1004.7	1001.0	993.5	986.1	978.6	971.1	963.7	956.2
25°	1036.0	1032.0	1027.9	1023.9	1019.8	1011.0	1002.2	993.4	984.6	975.9	967.1
27.5°	1056.6	1052.1	1047.6	1043.1	1038.6	1028.5	1018.4	1008.3	998.2	988.0	977.9
30°	1075.5	1070.2	1064.9	1059.7	1054.4	1043.1	1031.8	1020.5	1009.2	997.8	986.5
32.5°	1095.9	1090.2	1084.5	1078.8	1073.1	1060.0	1047.0	1033.9	1020.9	1007.8	994.8
35°	1115.4	1109.0	1102.7	1096.3	1089.9	1075.3	1060.7	1046.1	1031.5	1016.9	1002.3
37.5°	1134.8	1127.8	1120.8	1113.7	1106.7	1090.7	1074.7	1058.6	1042.6	1026.6	1010.6
40°	1154.3	1146.6	1138.9	1131.2	1123.5	1105.9	1088.4	1070.8	1053.2	1035.7	1018.1
42.5°	1175.7	1167.3	1159.0	1150.6	1142.3	1123.0	1103.7	1084.3	1065.0	1045.7	1026.4
45°	1196.5	1187.4	1178.3	1169.2	1160.1	1138.8	1117.5	1096.2	1074.9	1053.6	1032.3
47.5°	1218.9	1208.9	1198.9	1188.9	1178.9	1155.5	1132.1	1108.7	1085.3	1062.0	1038.6
50°	1240.7	1230.0	1219.2	1208.5	1197.7	1172.1	1146.5	1120.9	1095.3	1069.8	1044.2
52.5°	1263.5	1252.0	1240.5	1228.9	1217.4	1189.4	1161.4	1133.4	1105.4	1077.4	1049.4
55°	1284.4	1272.1	1259.8	1247.5	1235.2	1205.0	1174.8	1144.6	1114.4	1084.3	1054.1
57.5°	1303.5	1290.9	1278.2	1265.6	1253.0	1220.6	1188.2	1155.8	1123.4	1091.1	1058.7
60°	1318.6	1305.7	1292.7	1279.8	1266.8	1232.5	1198.3	1164.0	1129.8	1095.5	1061.3
62.5°	1329.5	1316.6	1303.6	1290.7	1277.7	1241.8	1205.9	1170.0	1134.1	1098.2	1062.3
65°	1333.9	1320.8	1307.7	1294.7	1281.6	1244.5	1207.4	1170.3	1133.2	1096.0	1058.9
67.5°	1331.5	1318.6	1305.6	1292.7	1279.7	1241.8	1203.9	1166.1	1128.2	1090.3	1052.4
70°	1318.6	1305.7	1292.7	1279.8	1266.8	1228.7	1190.6	1152.5	1114.4	1076.3	1038.2
72.5°	1294.0	1281.3	1268.6	1255.8	1243.1	1205.2	1167.3	1129.5	1091.6	1053.7	1015.8
75°	1257.8	1245.7	1233.7	1221.6	1209.5	1172.3	1135.1	1097.8	1060.6	1023.4	986.2
77.5°	1213.0	1201.3	1189.5	1177.8	1166.0	1129.7	1093.3	1057.0	1020.7	984.3	948.0
80°	1162.7	1151.2	1139.7	1128.1	1116.6	1081.5	1046.3	1011.2	976.1	940.9	905.8
82.5°	1111.4	1100.1	1088.8	1077.5	1066.2	1032.1	997.9	963.8	929.6	895.5	861.3
85°	1060.0	1048.7	1037.4	1026.1	1014.8	982.0	949.2	916.3	883.5	850.7	817.9
87.5°	1012.8	1001.7	990.6	979.5	968.4	936.9	905.4	873.9	842.4	810.8	779.3
90°	971.9	961.2	950.4	939.7	928.9	898.7	868.5	838.3	808.1	777.9	747.7
92.5°	935.6	925.3	914.9	904.6	894.3	865.3	836.3	807.3	778.3	749.4	720.4
95°	902.7	892.7	882.7	872.7	862.7	834.8	806.9	779.0	751.1	723.3	695.4
97.5°	870.7	861.0	851.3	841.7	832.0	805.0	778.0	751.0	724.0	696.9	669.9
100°	840.7	831.4	822.1	812.7	803.4	776.8	750.2	723.7	697.1	670.5	643.9
102.5°	810.6	801.4	792.1	782.9	773.7	747.9	722.1	696.3	670.5	644.7	618.9
105°	781.7	772.8	763.9	755.0	746.1	720.8	695.6	670.3	645.1	619.8	594.6
107.5°	750.0	741.1	732.2	723.3	714.4	690.1	665.9	641.6	617.4	593.1	568.9
110°	717.5	708.8	700.2	691.5	682.8	659.4	636.0	612.6	589.2	565.9	542.5



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLEDD4-9-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°	684.0	675.6	667.1	658.7	650.2	627.8	605.4	583.0	560.6	538.2	515.8
115°	650.5	642.3	634.1	625.8	617.6	596.0	574.3	552.7	531.1	509.4	487.8
117.5°	617.2	609.4	601.6	593.8	586.0	565.1	544.3	523.4	502.5	481.7	460.8
120°	582.7	575.1	567.6	560.0	552.4	532.3	512.2	492.1	472.0	451.9	431.8
122.5°	548.2	540.9	533.5	526.2	518.8	499.5	480.2	460.8	441.5	422.2	402.9
125°	511.9	505.0	498.0	491.1	484.2	465.6	447.1	428.5	410.0	391.4	372.9
127.5°	475.5	469.0	462.6	456.1	449.6	431.8	414.0	396.2	378.4	360.7	342.9
130°	437.7	431.5	425.4	419.2	413.1	396.5	379.9	363.3	346.7	330.2	313.6
132.5°	399.8	394.0	388.1	382.3	376.5	361.0	345.5	330.1	314.6	299.1	283.6
135°	361.6	356.4	351.2	346.1	340.9	326.3	311.7	297.1	282.5	267.9	253.3
137.5°	325.6	320.8	316.0	311.1	306.3	292.8	279.3	265.8	252.3	238.8	225.3
140°	289.3	284.9	280.5	276.1	271.7	259.2	246.7	234.2	221.7	209.1	196.6
142.5°	254.4	250.3	246.2	242.2	238.1	226.7	215.3	203.9	192.5	181.0	169.6
145°	218.5	214.8	211.1	207.3	203.6	193.4	183.2	173.0	162.8	152.5	142.3
147.5°	184.2	181.1	178.1	175.0	171.9	162.8	153.7	144.6	135.5	126.3	117.2
150°	151.7	148.9	146.0	143.2	140.3	132.3	124.3	116.3	108.3	100.2	92.2
152.5°	119.8	117.3	114.7	112.2	109.7	102.9	96.1	89.3	82.5	75.6	68.8
155°	89.9	87.9	86.0	84.0	82.0	76.4	70.8	65.2	59.6	54.0	48.4
157.5°	61.9	60.3	58.6	57.0	55.3	51.0	46.7	42.5	38.2	33.9	29.6
160°	37.0	35.9	34.8	33.7	32.6	30.0	27.3	24.7	22.1	19.4	16.8
162.5°	17.0	16.5	15.9	15.4	14.8	13.6	12.4	11.2	10.0	8.8	7.6
165°	4.9	4.9	4.9	4.9	4.9	4.5	4.0	3.6	3.2	2.7	2.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	970.5	971.9	973.3	973.9	974.4	975.0	975.5	976.1	976.6	977.2	977.7
5°	953.2	954.9	956.5	957.5	958.5	959.5	960.5	961.4	962.4	963.4	964.4
7.5°	938.9	940.3	941.7	942.7	943.7	944.7	945.7	946.6	947.6	948.6	949.6
10°	928.1	929.0	929.9	930.4	931.0	931.5	932.1	932.6	933.2	933.7	934.3
12.5°	921.6	921.3	921.0	920.6	920.1	919.7	919.2	918.8	918.3	917.9	917.4
15°	921.9	919.0	916.0	914.0	912.0	910.1	908.1	906.1	904.1	902.2	900.2
17.5°	927.8	922.4	917.0	913.0	909.1	905.1	901.2	897.2	893.3	889.3	885.4
20°	937.9	931.4	924.9	917.9	910.9	903.8	896.8	889.8	882.8	875.7	868.7
22.5°	948.7	941.3	933.8	923.7	913.6	903.5	893.4	883.3	873.2	863.1	853.0
25°	958.3	949.5	940.7	927.6	914.6	901.5	888.4	875.4	862.3	849.2	836.2
27.5°	967.8	957.7	947.6	931.8	916.0	900.2	884.4	868.6	852.8	837.0	821.2
30°	975.2	963.9	952.6	934.5	916.4	898.2	880.1	862.0	843.9	825.7	807.6
32.5°	981.7	968.7	955.6	935.6	915.6	895.6	875.6	855.7	835.7	815.7	795.7
35°	987.7	973.1	958.5	936.8	915.0	893.3	871.6	849.8	828.1	806.4	784.6
37.5°	994.5	978.5	962.5	938.9	915.3	891.7	868.1	844.4	820.8	797.2	773.6
40°	1000.5	983.0	965.4	940.0	914.7	889.3	864.0	838.6	813.3	787.9	762.6
42.5°	1007.0	987.7	968.4	941.1	913.7	886.4	859.0	831.7	804.3	777.0	749.6
45°	1011.0	989.7	968.4	939.2	910.0	880.8	851.6	822.3	793.1	763.9	734.7
47.5°	1015.2	991.8	968.4	937.3	906.2	875.2	844.1	813.0	781.9	750.9	719.8
50°	1018.6	993.0	967.4	934.5	901.5	868.6	835.7	802.7	769.8	736.9	703.9
52.5°	1021.4	993.4	965.4	930.6	895.8	861.0	826.2	791.4	756.6	721.8	687.0
55°	1023.9	993.7	963.5	926.8	890.1	853.5	816.8	780.1	743.4	706.8	670.1
57.5°	1026.3	993.9	961.5	922.8	884.2	845.5	806.9	768.2	729.6	690.9	652.3
60°	1027.0	992.8	958.5	917.9	877.3	836.6	796.0	755.4	714.8	674.1	633.5
62.5°	1026.4	990.5	954.6	912.1	869.6	827.1	784.6	742.1	699.6	657.1	614.6
65°	1021.8	984.7	947.6	903.4	859.1	814.9	770.6	726.4	682.1	637.9	593.6
67.5°	1014.6	976.7	938.8	892.8	846.8	800.8	754.8	708.7	662.7	616.7	570.7
70°	1000.1	962.0	923.9	876.8	829.7	782.6	735.5	688.4	641.3	594.2	547.1
72.5°	978.0	940.1	902.2	854.5	806.9	759.2	711.6	663.9	616.3	568.6	521.0
75°	948.9	911.7	874.5	826.9	779.2	731.6	683.9	636.3	588.6	541.0	493.3
77.5°	911.7	875.3	839.0	792.3	745.7	699.0	652.3	605.7	559.0	512.3	465.7
80°	870.7	835.5	800.4	754.9	709.5	664.0	618.6	573.1	527.7	482.2	436.8
82.5°	827.2	793.0	758.9	714.9	670.9	626.8	582.8	538.8	494.8	450.7	406.7
85°	785.0	752.2	719.4	676.9	634.4	591.9	549.4	507.0	464.5	422.0	379.5
87.5°	747.8	716.3	684.8	643.7	602.7	561.6	520.5	479.5	438.4	397.3	356.3
90°	717.5	687.3	657.1	617.2	577.4	537.5	497.7	457.8	418.0	378.1	338.3
92.5°	691.4	662.4	633.4	594.8	556.1	517.5	478.8	440.2	401.5	362.9	324.2
95°	667.5	639.6	611.7	573.9	536.1	498.4	460.6	422.8	385.0	347.3	309.5
97.5°	642.9	615.9	588.9	552.1	515.3	478.6	441.8	405.0	368.2	331.5	294.7
100°	617.4	590.8	564.2	528.5	492.8	457.2	421.5	385.8	350.1	314.5	278.8
102.5°	593.1	567.3	541.5	506.4	471.2	436.1	401.0	365.8	330.7	295.6	260.4
105°	569.3	544.1	518.8	484.5	450.3	416.0	381.8	347.5	313.3	279.0	244.8
107.5°	544.6	520.4	496.1	462.7	429.3	396.0	362.6	329.2	295.8	262.5	229.1
110°	519.1	495.7	472.3	439.9	407.5	375.1	342.7	310.4	278.0	245.6	213.2



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	493.4	471.0	448.6	417.2	385.8	354.4	323.0	291.6	260.2	228.8	197.4
115°	466.2	444.5	422.9	392.7	362.5	332.3	302.1	272.0	241.8	211.6	181.4
117.5°	439.9	419.1	398.2	369.1	340.0	310.9	281.8	252.8	223.7	194.6	165.5
120°	411.7	391.6	371.5	343.8	316.2	288.5	260.8	233.2	205.5	177.8	150.2
122.5°	383.5	364.2	344.9	318.4	292.0	265.5	239.0	212.6	186.1	159.6	133.2
125°	354.3	335.8	317.2	292.4	267.6	242.8	218.0	193.1	168.3	143.5	118.7
127.5°	325.1	307.3	289.5	266.2	242.9	219.7	196.4	173.1	149.8	126.6	103.3
130°	297.0	280.4	263.8	242.0	220.1	198.3	176.4	154.6	132.7	110.9	89.0
132.5°	268.2	252.7	237.2	217.0	196.8	176.6	156.4	136.1	115.9	95.7	75.5
135°	238.7	224.1	209.5	191.1	172.6	154.2	135.7	117.3	98.8	80.4	61.9
137.5°	211.8	198.3	184.8	168.0	151.2	134.4	117.6	100.8	84.0	67.2	50.4
140°	184.1	171.6	159.1	144.1	129.0	114.0	98.9	83.9	68.8	53.8	38.7
142.5°	158.2	146.8	135.4	122.2	109.0	95.9	82.7	69.5	56.3	43.2	30.0
145°	132.1	121.9	111.7	100.5	89.3	78.1	66.9	55.7	44.5	33.3	22.1
147.5°	108.1	99.0	89.9	80.8	71.7	62.6	53.5	44.3	35.2	26.1	17.0
150°	84.2	76.2	68.2	61.3	54.4	47.4	40.5	33.6	26.7	19.7	12.8
152.5°	62.0	55.2	48.4	43.5	38.5	33.6	28.7	23.7	18.8	13.9	8.9
155°	42.8	37.2	31.6	28.4	25.2	22.1	18.9	15.7	12.5	9.4	6.2
157.5°	25.4	21.1	16.8	15.2	13.5	11.9	10.2	8.6	6.9	5.3	3.6
160°	14.2	11.5	8.9	8.0	7.1	6.3	5.4	4.5	3.6	2.8	1.9
162.5°	6.4	5.2	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3
165°	1.9	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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	0.1	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: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	978.3	980.9	983.6	986.2	988.8	991.5	994.1	996.7	999.4	1002.0	1002.1
5°	965.4	969.0	972.6	976.3	979.9	983.5	987.1	990.8	994.4	998.0	999.2
7.5°	950.6	954.9	959.2	963.5	967.8	972.0	976.3	980.6	984.9	989.2	991.8
10°	934.8	939.7	944.7	949.6	954.6	959.5	964.5	969.4	974.4	979.3	983.1
12.5°	917.0	922.5	928.0	933.5	939.0	944.4	949.9	955.4	960.9	966.4	971.5
15°	898.2	903.8	909.4	915.0	920.6	926.2	931.8	937.4	943.0	948.6	955.1
17.5°	881.4	886.8	892.2	897.6	903.0	908.3	913.7	919.1	924.5	929.9	937.9
20°	861.7	866.9	872.0	877.2	882.3	887.5	892.6	897.8	902.9	908.1	917.7
22.5°	842.9	847.4	851.9	856.4	860.9	865.4	869.9	874.4	878.9	883.4	894.6
25°	823.1	826.7	830.3	834.0	837.6	841.2	844.8	848.5	852.1	855.7	868.8
27.5°	805.4	808.0	810.7	813.3	815.9	818.6	821.2	823.8	826.5	829.1	843.8
30°	789.5	790.4	791.3	792.1	793.0	793.9	794.8	795.6	796.5	797.4	814.2
32.5°	775.7	774.5	773.3	772.1	770.9	769.6	768.4	767.2	766.0	764.8	783.9
35°	762.9	759.3	755.7	752.0	748.4	744.8	741.2	737.5	733.9	730.3	751.8
37.5°	750.0	743.9	737.7	731.6	725.4	719.3	713.1	707.0	700.8	694.7	719.0
40°	737.2	728.4	719.6	710.8	702.0	693.3	684.5	675.7	666.9	658.1	685.2
42.5°	722.3	710.9	699.5	688.1	676.7	665.2	653.8	642.4	631.0	619.6	649.6
45°	705.5	691.8	678.1	664.3	650.6	636.9	623.2	609.4	595.7	582.0	614.6
47.5°	688.7	672.5	656.2	640.0	623.7	607.5	591.2	575.0	558.7	542.5	578.0
50°	671.0	652.3	633.7	615.0	596.3	577.7	559.0	540.3	521.7	503.0	541.2
52.5°	652.2	631.2	610.2	589.3	568.3	547.3	526.3	505.4	484.4	463.4	504.1
55°	633.4	610.1	586.8	563.6	540.3	517.0	493.7	470.5	447.2	423.9	467.2
57.5°	613.6	588.2	562.9	537.5	512.2	486.8	461.5	436.1	410.8	385.4	430.9
60°	592.9	565.3	537.8	510.2	482.7	455.1	427.6	400.0	372.5	344.9	392.7
62.5°	572.1	542.7	513.3	483.8	454.4	425.0	395.6	366.1	336.7	307.3	356.8
65°	549.4	518.1	486.8	455.5	424.2	393.0	361.7	330.4	299.1	267.8	319.2
67.5°	524.7	491.8	458.8	425.9	393.0	360.0	327.1	294.2	261.2	228.3	281.3
70°	500.0	465.7	431.5	397.2	363.0	328.7	294.5	260.2	226.0	191.7	246.0
72.5°	473.3	438.1	402.8	367.6	332.3	297.1	261.8	226.6	191.3	156.1	211.4
75°	445.7	409.8	373.9	338.0	302.1	266.1	230.2	194.3	158.4	122.5	178.5
77.5°	419.0	382.7	346.3	310.0	273.6	237.3	200.9	164.6	128.2	91.9	148.2
80°	391.3	355.0	318.6	282.3	245.9	209.6	173.2	136.9	100.5	64.2	120.3
82.5°	362.7	326.8	290.9	255.0	219.1	183.1	147.2	111.3	75.4	39.5	95.4
85°	337.0	301.8	266.5	231.3	196.0	160.8	125.5	90.3	55.0	19.8	74.7
87.5°	315.2	280.8	246.5	212.1	177.7	143.4	109.0	74.6	40.3	5.9	59.4
90°	298.4	265.4	232.3	199.3	166.2	133.2	100.1	67.1	34.0	1.0	52.3
92.5°	285.6	253.9	222.1	190.4	158.7	126.9	95.2	63.5	31.7	0.0	49.4
95°	271.7	241.5	211.3	181.1	150.9	120.8	90.6	60.4	30.2	0.0	47.5
97.5°	257.9	229.2	200.6	171.9	143.3	114.6	86.0	57.3	28.7	0.0	45.3
100°	243.1	216.2	189.3	162.4	135.5	108.6	81.7	54.8	27.9	1.0	44.0
102.5°	225.3	200.3	175.2	150.2	125.2	100.1	75.1	50.1	25.0	0.0	41.0
105°	210.5	187.2	163.9	140.7	117.4	94.1	70.8	47.6	24.3	1.0	39.8
107.5°	195.7	174.1	152.4	130.8	109.2	87.5	65.9	44.3	22.6	1.0	37.5
110°	180.8	160.8	140.8	120.9	100.9	80.9	60.9	41.0	21.0	1.0	35.1





TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	166.0	147.7	129.3	111.0	92.7	74.3	56.0	37.7	19.3	1.0	32.7
115°	151.2	134.5	117.8	101.1	84.4	67.8	51.1	34.4	17.7	1.0	30.1
117.5°	136.4	121.4	106.3	91.3	76.2	61.2	46.1	31.1	16.0	1.0	27.6
120°	122.5	109.0	95.5	82.0	68.5	55.0	41.5	28.0	14.5	1.0	24.9
122.5°	106.7	95.0	83.2	71.5	59.7	48.0	36.2	24.5	12.7	1.0	22.4
125°	93.9	83.6	73.3	62.9	52.6	42.3	32.0	21.6	11.3	1.0	19.8
127.5°	80.0	71.2	62.4	53.7	44.9	36.1	27.3	18.6	9.8	1.0	16.8
130°	67.2	59.8	52.5	45.1	37.8	30.4	23.1	15.7	8.4	1.0	14.0
132.5°	55.3	49.3	43.2	37.2	31.2	25.1	19.1	13.1	7.0	1.0	11.5
135°	43.5	38.8	34.1	29.3	24.6	19.9	15.2	10.4	5.7	1.0	9.2
137.5°	33.6	30.0	26.4	22.7	19.1	15.5	11.9	8.2	4.6	1.0	7.0
140°	23.7	21.2	18.7	16.1	13.6	11.1	8.6	6.0	3.5	1.0	5.3
142.5°	16.8	15.0	13.3	11.5	9.8	8.0	6.3	4.5	2.8	1.0	4.1
145°	10.9	9.8	8.7	7.6	6.5	5.4	4.3	3.2	2.1	1.0	3.1
147.5°	7.9	7.2	6.6	5.9	5.3	4.6	4.0	3.3	2.7	2.0	3.3
150°	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4	2.0	2.9
152.5°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	2.5
155°	3.0	2.9	2.8	2.7	2.6	2.4	2.3	2.2	2.1	2.0	2.3
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	1.9
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°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	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: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	1002.2	1002.3	1002.4	1002.6	1002.7	1002.8	1002.9	1003.0	1003.9	1004.8	1005.6
5°	1000.4	1001.6	1002.8	1004.1	1005.3	1006.5	1007.7	1008.9	1011.0	1013.1	1015.2
7.5°	994.5	997.1	999.7	1002.4	1005.0	1007.6	1010.3	1012.9	1016.2	1019.5	1022.8
10°	987.0	990.8	994.7	998.5	1002.4	1006.2	1010.1	1013.9	1018.5	1023.1	1027.7
12.5°	976.5	981.6	986.6	991.7	996.7	1001.8	1006.8	1011.9	1018.3	1024.6	1031.0
15°	961.6	968.0	974.5	981.0	987.5	993.9	1000.4	1006.9	1015.4	1023.8	1032.3
17.5°	945.9	953.9	961.9	970.0	978.0	986.0	994.0	1002.0	1012.6	1023.3	1033.9
20°	927.2	936.8	946.3	955.9	965.4	975.0	984.5	994.1	1007.6	1021.1	1034.6
22.5°	905.8	917.0	928.2	939.4	950.6	961.8	973.0	984.2	1001.4	1018.7	1035.9
25°	881.8	894.9	908.0	921.0	934.1	947.2	960.2	973.3	993.9	1014.6	1035.2
27.5°	858.5	873.2	887.9	902.7	917.4	932.1	946.8	961.5	985.8	1010.0	1034.3
30°	831.0	847.8	864.6	881.4	898.2	915.0	931.8	948.6	976.3	1004.0	1031.6
32.5°	803.0	822.1	841.2	860.4	879.5	898.6	917.7	936.8	967.8	998.7	1029.7
35°	773.3	794.8	816.3	837.9	859.4	880.9	902.4	923.9	957.9	992.0	1026.0
37.5°	743.2	767.5	791.8	816.0	840.3	864.6	888.8	913.1	950.0	986.9	1023.8
40°	712.3	739.5	766.6	793.7	820.8	848.0	875.1	902.2	941.6	981.0	1020.4
42.5°	679.5	709.5	739.5	769.4	799.4	829.4	859.3	889.3	931.5	973.6	1015.8
45°	647.2	679.8	712.4	745.1	777.7	810.3	842.9	875.5	920.2	964.9	1009.6
47.5°	613.4	648.9	684.4	719.8	755.3	790.8	826.2	861.7	908.9	956.1	1003.3
50°	579.4	617.6	655.8	694.1	732.3	770.5	808.7	846.9	896.4	945.9	995.4
52.5°	544.9	585.6	626.4	667.1	707.9	748.6	789.4	830.1	881.7	933.3	984.9
55°	510.4	553.7	597.0	640.2	683.5	726.8	770.0	813.3	867.0	920.7	974.4
57.5°	476.3	521.8	567.2	612.7	658.1	703.6	749.0	794.5	850.4	906.3	962.2
60°	440.4	488.2	535.9	583.7	631.4	679.2	726.9	774.7	832.7	890.7	948.6
62.5°	406.3	455.9	505.4	554.9	604.4	654.0	703.5	753.0	813.2	873.3	933.5
65°	370.6	422.0	473.4	524.7	576.1	627.5	678.9	730.3	792.3	854.4	916.4
67.5°	334.3	387.4	440.4	493.4	546.4	599.5	652.5	705.5	769.5	833.5	897.5
70°	300.4	354.7	409.1	463.4	517.8	572.1	626.5	680.8	746.2	811.7	877.1
72.5°	266.8	322.1	377.5	432.8	488.2	543.5	598.9	654.2	720.6	787.0	853.5
75°	234.5	290.5	346.5	402.5	458.5	514.5	570.5	626.5	693.6	760.7	827.8
77.5°	204.5	260.9	317.2	373.5	429.8	486.2	542.5	598.8	665.9	733.0	800.1
80°	176.4	232.5	288.6	344.8	400.9	457.0	513.1	569.2	636.1	702.9	769.8
82.5°	151.3	207.2	263.1	318.9	374.8	430.7	486.6	542.5	608.2	673.8	739.5
85°	129.6	184.5	239.4	294.2	349.1	404.0	458.9	513.8	579.0	644.2	709.5
87.5°	112.9	166.3	219.8	273.3	326.8	380.2	433.7	487.2	551.2	615.2	679.2
90°	103.6	154.8	206.1	257.4	308.7	359.9	411.2	462.5	525.2	587.9	650.6
92.5°	98.8	148.2	197.6	247.1	296.5	345.9	395.3	444.7	506.2	567.7	629.1
95°	95.1	142.6	190.2	237.7	285.3	332.8	380.4	427.9	488.2	548.5	608.7
97.5°	90.7	136.0	181.4	226.7	272.1	317.4	362.8	408.1	467.5	526.9	586.3
100°	87.1	130.1	173.1	216.2	259.2	302.2	345.3	388.3	446.8	505.3	563.9
102.5°	81.9	122.9	163.8	204.8	245.7	286.7	327.6	368.6	426.0	483.4	540.9
105°	78.5	117.3	156.0	194.8	233.5	272.3	311.0	349.8	406.0	462.2	518.4
107.5°	73.9	110.4	146.8	183.3	219.7	256.2	292.6	329.1	384.0	438.9	493.8
110°	69.3	103.4	137.6	171.7	205.9	240.0	274.2	308.3	361.9	415.5	469.0



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	64.5	96.2	127.9	159.7	191.4	223.1	254.9	286.6	339.0	391.3	443.7
115°	59.2	88.3	117.4	146.5	175.6	204.7	233.8	262.9	313.5	364.1	414.7
117.5°	54.1	80.7	107.3	133.8	160.4	187.0	213.5	240.1	289.6	339.1	388.7
120°	48.9	72.8	96.7	120.7	144.6	168.5	192.5	216.4	264.3	312.1	360.0
122.5°	43.8	65.2	86.6	108.1	129.5	150.9	172.3	193.7	239.8	285.9	332.0
125°	38.6	57.3	76.1	94.9	113.7	132.4	151.2	170.0	214.0	258.0	302.1
127.5°	32.6	48.4	64.2	80.1	95.9	111.7	127.5	143.3	184.8	226.3	267.8
130°	26.9	39.9	52.8	65.8	78.7	91.7	104.6	117.6	155.4	193.1	230.9
132.5°	22.1	32.6	43.2	53.7	64.3	74.8	85.4	95.9	129.7	163.5	197.3
135°	17.5	25.7	33.9	42.2	50.4	58.6	66.9	75.1	105.4	135.7	166.0
137.5°	13.1	19.1	25.1	31.2	37.2	43.2	49.3	55.3	82.3	109.3	136.3
140°	9.6	13.8	18.1	22.4	26.7	30.9	35.2	39.5	63.3	87.2	111.0
142.5°	7.2	10.2	13.3	16.4	19.5	22.5	25.6	28.7	48.9	69.1	89.3
145°	5.2	7.3	9.4	11.4	13.5	15.6	17.7	19.8	36.6	53.4	70.2
147.5°	4.6	5.9	7.2	8.6	9.9	11.2	12.5	13.8	27.3	40.8	54.3
150°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	20.2	30.5	40.9
152.5°	3.1	3.6	4.2	4.7	5.3	5.8	6.4	6.9	14.4	21.8	29.3
155°	2.6	3.0	3.3	3.6	3.9	4.3	4.6	4.9	9.5	14.1	18.7
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	6.7	9.5	12.2
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°	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.7	2.3	3.0
165°	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.3
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: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	1006.5	1007.4	1008.3	1009.1	1010.0	1010.9	1011.1	1011.3	1011.6	1011.8	1012.0
5°	1017.3	1019.3	1021.4	1023.5	1025.6	1027.7	1028.7	1029.7	1030.7	1031.7	1032.6
7.5°	1026.1	1029.3	1032.6	1035.9	1039.2	1042.5	1044.6	1046.7	1048.8	1050.9	1052.9
10°	1032.3	1037.0	1041.6	1046.2	1050.8	1055.4	1059.0	1062.6	1066.3	1069.9	1073.5
12.5°	1037.4	1043.7	1050.1	1056.5	1062.8	1069.2	1074.5	1079.7	1085.0	1090.3	1095.5
15°	1040.7	1049.2	1057.6	1066.1	1074.5	1083.0	1090.2	1097.5	1104.7	1112.0	1119.2
17.5°	1044.6	1055.2	1065.9	1076.5	1087.2	1097.8	1107.8	1117.8	1127.8	1137.8	1147.8
20°	1048.1	1061.6	1075.1	1088.6	1102.1	1115.6	1128.0	1140.4	1152.8	1165.2	1177.7
22.5°	1053.2	1070.4	1087.7	1104.9	1122.2	1139.4	1153.3	1167.3	1181.2	1195.1	1209.1
25°	1055.9	1076.5	1097.2	1117.8	1138.5	1159.1	1175.0	1190.9	1206.9	1222.8	1238.7
27.5°	1058.6	1082.8	1107.1	1131.4	1155.6	1179.9	1197.6	1215.3	1232.9	1250.6	1268.3
30°	1059.3	1087.0	1114.7	1142.3	1170.0	1197.7	1217.1	1236.6	1256.0	1275.4	1294.9
32.5°	1060.6	1091.6	1122.5	1153.5	1184.4	1215.4	1236.7	1258.0	1279.3	1300.6	1321.9
35°	1060.1	1094.1	1128.2	1162.2	1196.3	1230.3	1253.5	1276.6	1299.8	1323.0	1346.1
37.5°	1060.7	1097.5	1134.4	1171.3	1208.2	1245.1	1270.1	1295.2	1320.2	1345.2	1370.3
40°	1059.8	1099.3	1138.7	1178.1	1217.5	1256.9	1284.1	1311.4	1338.6	1365.8	1393.1
42.5°	1058.0	1100.1	1142.3	1184.5	1226.6	1268.8	1298.1	1327.4	1356.7	1386.0	1415.4
45°	1054.3	1098.9	1143.6	1188.3	1233.0	1277.7	1309.3	1340.9	1372.6	1404.2	1435.8
47.5°	1050.5	1097.8	1145.0	1192.2	1239.4	1286.6	1320.6	1354.7	1388.7	1422.7	1456.8
50°	1044.9	1094.5	1144.0	1193.5	1243.0	1292.5	1329.0	1365.4	1401.9	1438.3	1474.8
52.5°	1036.5	1088.1	1139.7	1191.3	1242.9	1294.5	1333.8	1373.1	1412.4	1451.7	1491.1
55°	1028.1	1081.7	1135.4	1189.1	1242.8	1296.5	1338.3	1380.2	1422.0	1463.8	1505.7
57.5°	1018.1	1073.9	1129.8	1185.7	1241.6	1297.5	1341.6	1385.8	1429.9	1474.0	1518.2
60°	1006.6	1064.6	1122.6	1180.5	1238.5	1296.5	1342.6	1388.7	1434.8	1480.9	1527.1
62.5°	993.7	1053.8	1114.0	1174.2	1234.3	1294.5	1342.4	1390.2	1438.1	1486.0	1533.8
65°	978.4	1040.5	1102.5	1164.5	1226.6	1288.6	1337.9	1387.2	1436.5	1485.8	1535.0
67.5°	961.5	1025.6	1089.6	1153.6	1217.6	1281.6	1332.1	1382.6	1433.1	1483.6	1534.2
70°	942.6	1008.0	1073.5	1138.9	1204.4	1269.8	1321.2	1372.6	1423.9	1475.3	1526.7
72.5°	919.9	986.3	1052.7	1119.2	1185.6	1252.0	1304.2	1356.3	1408.5	1460.6	1512.8
75°	894.9	961.9	1029.0	1096.1	1163.2	1230.3	1282.8	1335.3	1387.7	1440.2	1492.7
77.5°	867.2	934.2	1001.3	1068.4	1135.5	1202.6	1255.0	1307.3	1359.7	1412.1	1464.4
80°	836.7	903.5	970.4	1037.3	1104.1	1171.0	1222.9	1274.9	1326.8	1378.7	1430.7
82.5°	805.1	870.8	936.4	1002.1	1067.7	1133.4	1184.8	1236.2	1287.6	1339.0	1390.3
85°	774.7	839.9	905.1	970.4	1035.6	1100.8	1150.9	1200.9	1251.0	1301.1	1351.1
87.5°	743.2	807.3	871.3	935.3	999.3	1063.3	1112.3	1161.2	1210.2	1259.2	1308.1
90°	713.3	775.9	838.6	901.3	964.0	1026.7	1074.6	1122.4	1170.3	1218.2	1266.0
92.5°	690.6	752.1	813.6	875.0	936.5	998.0	1044.4	1090.9	1137.3	1183.8	1230.2
95°	669.0	729.3	789.6	849.8	910.1	970.4	1016.4	1062.4	1108.4	1154.4	1200.4
97.5°	645.7	705.1	764.5	823.9	883.3	942.7	987.2	1031.6	1076.1	1120.6	1165.0
100°	622.4	680.9	739.4	798.0	856.5	915.0	958.4	1001.8	1045.1	1088.5	1131.9
102.5°	598.3	655.7	713.1	770.6	828.0	885.4	928.1	970.8	1013.5	1056.2	1099.0
105°	574.6	630.9	687.1	743.3	799.5	855.7	897.6	939.6	981.5	1023.5	1065.4
107.5°	548.7	603.5	658.4	713.3	768.2	823.1	864.3	905.5	946.6	987.8	1029.0
110°	522.6	576.2	629.8	683.3	736.9	790.5	830.6	870.7	910.7	950.8	990.9



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	496.1	548.4	600.8	653.2	705.5	757.9	796.8	835.6	874.5	913.4	952.2
115°	465.3	516.0	566.6	617.2	667.8	718.4	756.5	794.6	832.7	870.8	908.9
117.5°	438.2	487.7	537.2	586.8	636.3	685.8	722.1	758.5	794.8	831.2	867.5
120°	407.9	455.7	503.6	551.5	599.3	647.2	682.2	717.3	752.3	787.3	822.4
122.5°	378.1	424.3	470.4	516.5	562.6	608.7	642.2	675.7	709.2	742.7	776.1
125°	346.1	390.1	434.1	478.2	522.2	566.2	598.4	630.5	662.7	694.9	727.0
127.5°	309.3	350.8	392.3	433.8	475.3	516.8	548.2	579.6	611.0	642.4	673.8
130°	268.7	306.4	344.2	382.0	419.7	457.5	489.2	521.0	552.7	584.4	616.2
132.5°	231.1	265.0	298.8	332.6	366.4	400.2	431.7	463.2	494.7	526.2	557.8
135°	196.3	226.6	256.9	287.2	317.5	347.8	378.2	408.6	439.1	469.5	499.9
137.5°	163.3	190.4	217.4	244.4	271.4	298.4	326.7	355.1	383.4	411.7	440.1
140°	134.8	158.7	182.5	206.3	230.2	254.0	279.2	304.5	329.7	355.0	380.2
142.5°	109.5	129.7	149.9	170.1	190.3	210.5	232.9	255.3	277.7	300.1	322.5
145°	87.0	103.8	120.6	137.4	154.2	171.0	190.6	210.3	229.9	249.6	269.2
147.5°	67.8	81.4	94.9	108.4	121.9	135.4	152.2	169.0	185.8	202.6	219.4
150°	51.2	61.5	71.8	82.2	92.5	102.8	116.7	130.7	144.6	158.6	172.5
152.5°	36.8	44.2	51.7	59.2	66.6	74.1	85.6	97.2	108.7	120.2	131.8
155°	23.3	28.0	32.6	37.2	41.8	46.4	55.8	65.3	74.7	84.2	93.6
157.5°	15.0	17.7	20.5	23.2	26.0	28.7	35.6	42.5	49.4	56.3	63.3
160°	8.7	10.1	11.5	13.0	14.4	15.8	20.0	24.2	28.3	32.5	36.7
162.5°	3.6	4.3	4.9	5.6	6.2	6.9	9.2	11.5	13.8	16.1	18.5
165°	1.4	1.6	1.7	1.8	1.9	2.0	3.0	4.0	5.0	6.0	6.9
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: P201363

CATALOG NUMBER: 4LBLEDD4-9-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°	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2	988.2
2.5°	1012.2	1012.5	1012.7	1012.9	1012.1	1011.3	1010.6	1009.8	1009.0	1008.2	1007.5
5°	1033.6	1034.6	1035.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6
7.5°	1055.0	1057.1	1059.2	1061.3	1061.7	1062.2	1062.6	1063.0	1063.5	1063.9	1064.3
10°	1077.1	1080.8	1084.4	1088.0	1088.8	1089.5	1090.3	1091.1	1091.8	1092.6	1093.4
12.5°	1100.8	1106.1	1111.3	1116.6	1117.7	1118.8	1119.9	1121.0	1122.1	1123.2	1124.3
15°	1126.5	1133.7	1141.0	1148.2	1150.5	1152.8	1155.1	1157.4	1159.8	1162.1	1164.4
17.5°	1157.8	1167.8	1177.8	1187.8	1190.9	1193.9	1197.0	1200.1	1203.1	1206.2	1209.3
20°	1190.1	1202.5	1214.9	1227.3	1231.3	1235.2	1239.2	1243.1	1247.1	1251.0	1255.0
22.5°	1223.0	1236.9	1250.9	1264.8	1269.5	1274.2	1279.0	1283.7	1288.4	1293.1	1297.9
25°	1254.6	1270.6	1286.5	1302.4	1307.6	1312.7	1317.9	1323.0	1328.2	1333.3	1338.5
27.5°	1286.0	1303.6	1321.3	1339.0	1344.8	1350.6	1356.4	1362.2	1368.1	1373.9	1379.7
30°	1314.3	1333.7	1353.2	1372.6	1379.4	1386.2	1393.0	1399.8	1406.6	1413.4	1420.2
32.5°	1343.2	1364.5	1385.8	1407.1	1414.8	1422.5	1430.2	1437.9	1445.5	1453.2	1460.9
35°	1369.3	1392.5	1415.6	1438.8	1447.5	1456.1	1464.8	1473.5	1482.1	1490.8	1499.5
37.5°	1395.3	1420.3	1445.4	1470.4	1480.2	1489.9	1499.7	1509.5	1519.2	1529.0	1538.8
40°	1420.3	1447.5	1474.8	1502.0	1512.8	1523.5	1534.3	1545.0	1555.8	1566.5	1577.3
42.5°	1444.7	1474.0	1503.3	1532.6	1544.5	1556.3	1568.2	1580.1	1591.9	1603.8	1615.7
45°	1467.4	1499.1	1530.7	1562.3	1575.7	1589.1	1602.5	1615.9	1629.2	1642.6	1656.0
47.5°	1490.8	1524.8	1558.9	1592.9	1607.3	1621.7	1636.1	1650.5	1664.8	1679.2	1693.6
50°	1511.2	1547.7	1584.1	1620.6	1636.1	1651.6	1667.0	1682.5	1698.0	1713.5	1728.9
52.5°	1530.4	1569.7	1609.0	1648.3	1664.8	1681.2	1697.7	1714.2	1730.6	1747.1	1763.6
55°	1547.5	1589.3	1631.2	1673.0	1690.2	1707.5	1724.7	1741.9	1759.2	1776.4	1793.6
57.5°	1562.3	1606.4	1650.6	1694.7	1712.8	1730.9	1749.0	1767.1	1785.3	1803.4	1821.5
60°	1573.2	1619.3	1665.4	1711.5	1730.5	1749.5	1768.5	1787.5	1806.5	1825.5	1844.5
62.5°	1581.7	1629.6	1677.4	1725.3	1744.7	1764.2	1783.6	1803.0	1822.5	1841.9	1861.3
65°	1584.3	1633.6	1682.9	1732.2	1752.1	1772.0	1791.8	1811.7	1831.6	1851.5	1871.3
67.5°	1584.7	1635.2	1685.7	1736.2	1756.2	1776.2	1796.1	1816.1	1836.1	1856.1	1876.0
70°	1578.1	1629.4	1680.8	1732.2	1752.3	1772.4	1792.5	1812.6	1832.7	1852.8	1872.9
72.5°	1564.9	1617.1	1669.2	1721.4	1741.5	1761.6	1781.7	1801.8	1821.8	1841.9	1862.0
75°	1545.2	1597.6	1650.1	1702.6	1722.5	1742.4	1762.2	1782.1	1802.0	1821.9	1841.7
77.5°	1516.8	1569.2	1621.5	1673.9	1693.7	1713.4	1733.2	1753.0	1772.7	1792.5	1812.3
80°	1482.6	1534.5	1586.5	1638.4	1657.8	1677.3	1696.7	1716.1	1735.6	1755.0	1774.4
82.5°	1441.7	1493.1	1544.5	1595.9	1615.1	1634.3	1653.5	1672.7	1692.0	1711.2	1730.4
85°	1401.2	1451.3	1501.3	1551.4	1570.2	1589.0	1607.7	1626.5	1645.3	1664.1	1682.8
87.5°	1357.1	1406.1	1455.0	1504.0	1522.6	1541.1	1559.7	1578.2	1596.8	1615.3	1633.9
90°	1313.9	1361.8	1409.6	1457.5	1475.6	1493.7	1511.9	1530.0	1548.1	1566.2	1584.4
92.5°	1276.7	1323.1	1369.6	1416.0	1433.9	1451.8	1469.7	1487.6	1505.5	1523.4	1541.3
95°	1246.4	1292.4	1338.4	1384.4	1401.2	1418.0	1434.8	1451.6	1468.4	1485.2	1502.0
97.5°	1209.5	1254.0	1298.4	1342.9	1359.6	1376.3	1393.0	1409.7	1426.3	1443.0	1459.7
100°	1175.3	1218.6	1262.0	1305.4	1321.6	1337.9	1354.1	1370.4	1386.6	1402.9	1419.1
102.5°	1141.7	1184.4	1227.1	1269.8	1285.9	1302.1	1318.2	1334.3	1350.5	1366.6	1382.7
105°	1107.4	1149.3	1191.3	1233.2	1248.7	1264.2	1279.7	1295.2	1310.6	1326.1	1341.6
107.5°	1070.2	1111.3	1152.5	1193.7	1208.9	1224.0	1239.2	1254.3	1269.5	1284.6	1299.8
110°	1031.0	1071.0	1111.1	1151.2	1166.1	1181.1	1196.0	1210.9	1225.9	1240.8	1255.7



TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-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°	991.1	1030.0	1068.8	1107.7	1122.2	1136.7	1151.2	1165.7	1180.2	1194.7	1209.2
115°	947.0	985.1	1023.2	1061.3	1076.0	1090.7	1105.4	1120.1	1134.9	1149.6	1164.3
117.5°	903.9	940.2	976.6	1012.9	1027.3	1041.7	1056.0	1070.4	1084.8	1099.2	1113.5
120°	857.4	892.4	927.5	962.5	976.6	990.6	1004.7	1018.7	1032.8	1046.8	1060.9
122.5°	809.6	843.1	876.6	910.1	923.7	937.3	950.9	964.5	978.2	991.8	1005.4
125°	759.2	791.4	823.5	855.7	868.9	882.1	895.2	908.4	921.6	934.8	947.9
127.5°	705.2	736.6	768.0	799.4	812.0	824.7	837.3	849.9	862.6	875.2	887.8
130°	647.9	679.6	711.4	743.1	755.1	767.0	779.0	791.0	802.9	814.9	826.9
132.5°	589.3	620.8	652.3	683.8	695.3	706.9	718.4	729.9	741.5	753.0	764.5
135°	530.3	560.8	591.2	621.6	632.8	644.0	655.2	666.4	677.5	688.7	699.9
137.5°	468.4	496.7	525.1	553.4	564.6	575.8	587.0	598.2	609.4	620.6	631.8
140°	405.5	430.7	456.0	481.2	492.8	504.5	516.1	527.8	539.4	551.1	562.7
142.5°	344.9	367.3	389.7	412.1	423.4	434.7	446.0	457.3	468.6	479.9	491.2
145°	288.9	308.5	328.2	347.8	359.4	371.1	382.7	394.4	406.0	417.7	429.3
147.5°	236.2	253.0	269.8	286.6	298.5	310.3	322.2	334.0	345.9	357.7	369.6
150°	186.5	200.4	214.4	228.3	240.0	251.8	263.5	275.3	287.0	298.8	310.5
152.5°	143.3	154.8	166.4	177.9	188.9	199.9	210.8	221.8	232.8	243.8	254.7
155°	103.1	112.5	122.0	131.4	141.1	150.7	160.4	170.1	179.7	189.4	199.1
157.5°	70.2	77.1	84.0	90.9	99.0	107.1	115.3	123.4	131.5	139.6	147.8
160°	40.9	45.0	49.2	53.4	60.2	67.0	73.8	80.6	87.4	94.2	101.0
162.5°	20.8	23.1	25.4	27.7	32.2	36.7	41.2	45.7	50.2	54.7	59.2
165°	7.9	8.9	9.9	10.9	13.4	15.9	18.5	21.0	23.5	26.0	28.6
167.5°	1.3	1.6	1.8	2.0	3.0	4.0	5.0	6.0	6.9	7.9	8.9
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: P201363

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	988.2	988.2
2.5°	1006.7	1005.9
5°	1036.6	1036.6
7.5°	1064.8	1065.2
10°	1094.1	1094.9
12.5°	1125.4	1126.5
15°	1166.7	1169.0
17.5°	1212.3	1215.4
20°	1258.9	1262.9
22.5°	1302.6	1307.3
25°	1343.6	1348.8
27.5°	1385.5	1391.3
30°	1427.0	1433.8
32.5°	1468.6	1476.3
35°	1508.1	1516.8
37.5°	1548.5	1558.3
40°	1588.0	1598.8
42.5°	1627.5	1639.4
45°	1669.4	1682.8
47.5°	1708.0	1722.4
50°	1744.4	1759.9
52.5°	1780.0	1796.5
55°	1810.9	1828.1
57.5°	1839.6	1857.7
60°	1863.5	1882.5
62.5°	1880.8	1900.2
65°	1891.2	1911.1
67.5°	1896.0	1916.0
70°	1893.0	1913.1
72.5°	1882.1	1902.2
75°	1861.6	1881.5
77.5°	1832.0	1851.8
80°	1793.9	1813.3
82.5°	1749.6	1768.8
85°	1701.6	1720.4
87.5°	1652.4	1671.0
90°	1602.5	1620.6
92.5°	1559.2	1577.1
95°	1518.8	1535.6
97.5°	1476.4	1493.1
100°	1435.4	1451.6
102.5°	1398.9	1415.0
105°	1357.1	1372.6
107.5°	1314.9	1330.1
110°	1270.7	1285.6





TEST NUMBER: P201363

CATALOG NUMBER: 4LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1223.7	1238.2
115°	1179.0	1193.7
117.5°	1127.9	1142.3
120°	1074.9	1089.0
122.5°	1019.0	1032.6
125°	961.1	974.3
127.5°	900.5	913.1
130°	838.8	850.8
132.5°	776.1	787.6
135°	711.1	722.3
137.5°	643.0	654.2
140°	574.4	586.0
142.5°	502.5	513.8
145°	441.0	452.6
147.5°	381.4	393.3
150°	322.3	334.0
152.5°	265.7	276.7
155°	208.7	218.4
157.5°	155.9	164.0
160°	107.8	114.6
162.5°	63.7	68.2
165°	31.1	33.6
167.5°	9.9	10.9
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)