

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: P201402

Luminaire Tested: **8LBLED-LD4-9-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28232)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLEDD4-9-ASYMW-UNV-L835-CD2-U
Description: 8 ft. Low Bay Linear, 6000 lm, Wht Asym lens, 3.5K
Light Source: (616) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
(OT50W0880CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8992.3 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 2.1 / 1.2 / 1.85
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

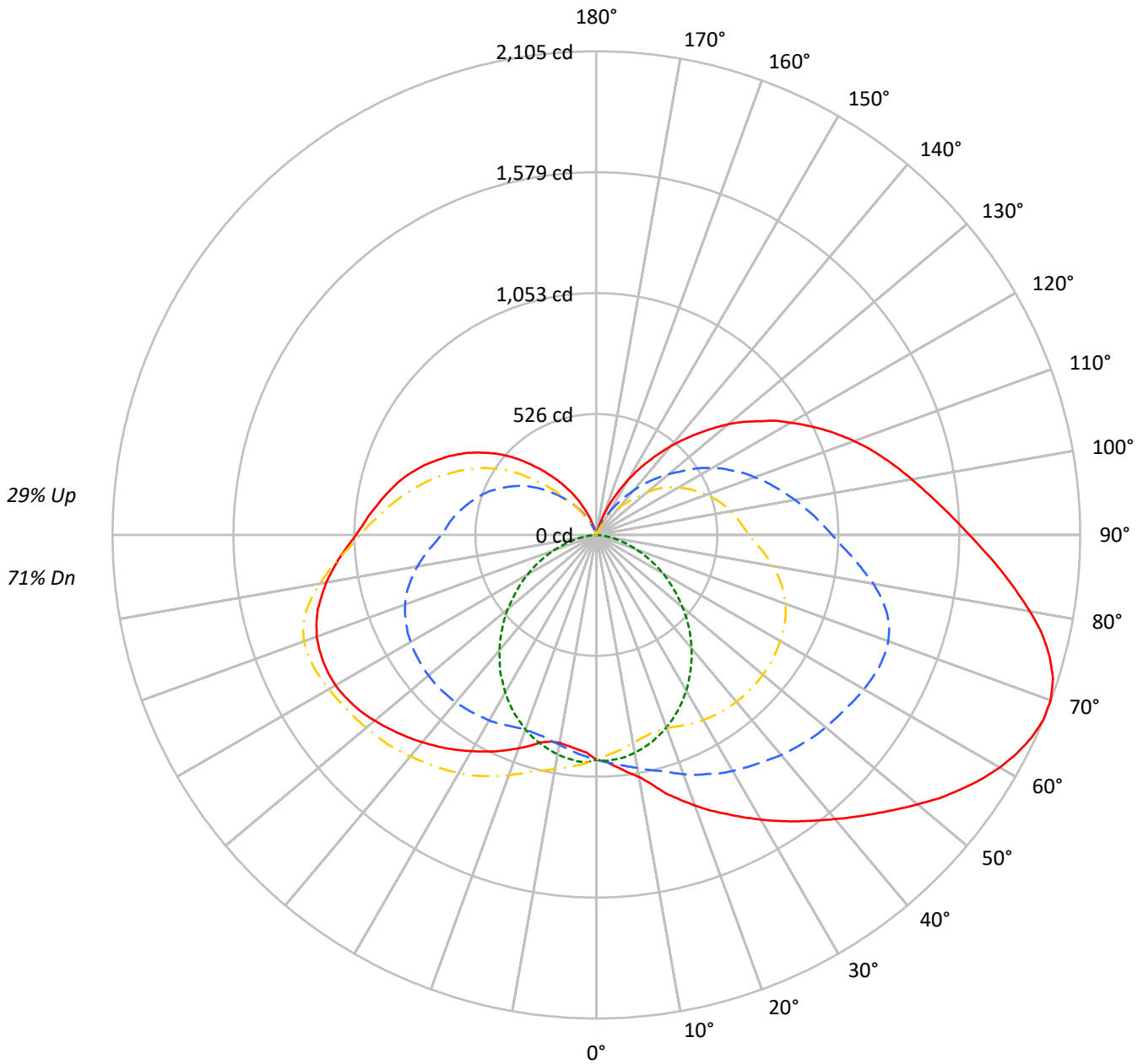
Input Watts (W): 65.59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

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	71
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	49
2	86	76	67	60	81	71	64	57	63	57	51	55	50	46	48	44	40	36
3	77	65	55	48	72	61	52	45	54	47	41	47	41	36	41	36	32	28
4	70	56	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	32	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	34	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	20	29	23	18	25	20	16	14
8	50	36	27	21	47	34	25	20	30	23	18	26	20	16	23	18	14	12
9	47	33	24	18	44	31	23	17	27	21	16	24	18	14	21	16	13	10
10	43	30	22	16	41	28	21	15	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7882	7882	7882	7882
5°	7394	7910	6832	7974
10°	7172	7838	6165	7903
15°	7280	7727	5846	7792
20°	7392	7570	5830	7654
25°	7536	7395	5846	7482
30°	7744	7173	5883	7264
35°	7995	6911	5960	7045
40°	8304	6632	6058	6753
45°	8705	6321	6187	6431
50°	9204	5935	6352	6127
55°	9771	5568	6524	5728
60°	10339	5150	6687	5334
65°	10848	4639	6805	4890
70°	11202	4041	6896	4344
75°	11252	3422	6917	3646
80°	11019	2479	6868	2717
85°	10720	1126	6799	1546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.0
10°-20°	280.3	3.1
20°-30°	472.7	5.3
30°-40°	658.8	7.3
40°-50°	829.0	9.2
50°-60°	971.7	10.8
60°-70°	1063.3	11.8
70°-80°	1051.2	11.7
80°-90°	923.7	10.3
90°-100°	787.3	8.8
100°-110°	658.2	7.3
110°-120°	511.5	5.7
120°-130°	356.8	4.0
130°-140°	208.6	2.3
140°-150°	95.4	1.1
150°-160°	28.3	0.3
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	846.2	9.4
0°-40°	1505.0	16.7
0°-60°	3305.6	36.8
0°-90°	6343.8	70.5
90°-120°	1957.0	21.8
90°-150°	2617.8	29.1
90°-180°	2649.0	29.5
0°-180°	8992.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	978	978	978	978	978	
5°	1014	980	937	988	1014	99
15°	1164	933	935	941	1164	332
25°	1340	842	1040	852	1340	623
35°	1522	715	1134	729	1522	958
45°	1716	569	1219	579	1716	1332
55°	1933	411	1291	423	1933	1734
65°	2089	257	1310	271	2089	2065
75°	2042	121	1255	128	2042	2147
85°	1767	16	1121	22	1767	1473
90°	1623	0	1046	0	1623	890
95°	1500	0	992	0	1500	1204
105°	1294	0	891	0	1294	1370
115°	1087	0	767	0	1087	1079
125°	862	0	624	2	862	777
135°	623	0	456	2	623	486
145°	387	0	285	2	387	247
155°	174	0	132	2	174	84
165°	26	0	12	2	26	10
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLELD4-9-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	988.2	988.0	987.8	987.5	987.3	987.1	986.9	986.6	986.4	986.2	986.6
5°	1013.9	1012.8	1011.7	1010.6	1009.5	1008.4	1007.3	1006.2	1005.1	1004.0	1003.8
7.5°	1041.5	1040.0	1038.4	1036.9	1035.4	1033.8	1032.3	1030.8	1029.2	1027.7	1026.4
10°	1069.2	1067.2	1065.2	1063.3	1061.3	1059.3	1057.3	1055.4	1053.4	1051.4	1049.0
12.5°	1110.7	1107.6	1104.5	1101.5	1098.4	1095.3	1092.2	1089.2	1086.1	1083.0	1079.1
15°	1164.1	1159.9	1155.7	1151.6	1147.4	1143.2	1139.0	1134.9	1130.7	1126.5	1119.5
17.5°	1207.6	1203.4	1199.2	1195.1	1190.9	1186.7	1182.5	1178.4	1174.2	1170.0	1160.6
20°	1253.0	1248.0	1242.9	1237.9	1232.8	1227.8	1222.7	1217.7	1212.6	1207.6	1196.6
22.5°	1298.5	1292.3	1286.2	1280.0	1273.9	1267.7	1261.6	1255.4	1249.3	1243.1	1230.6
25°	1340.0	1333.6	1327.3	1320.9	1314.5	1308.2	1301.8	1295.4	1289.1	1282.7	1267.8
27.5°	1385.4	1378.2	1370.9	1363.7	1356.4	1349.2	1341.9	1334.7	1327.4	1320.2	1303.5
30°	1430.9	1422.6	1414.2	1405.9	1397.5	1389.2	1380.8	1372.5	1364.1	1355.8	1336.9
32.5°	1476.3	1466.9	1457.4	1448.0	1438.6	1429.1	1419.7	1410.3	1400.8	1391.4	1370.3
35°	1521.8	1511.5	1501.2	1490.8	1480.5	1470.2	1459.9	1449.5	1439.2	1428.9	1405.4
37.5°	1567.2	1556.0	1544.8	1533.6	1522.4	1511.3	1500.1	1488.9	1477.7	1466.5	1440.6
40°	1614.7	1602.4	1590.1	1577.8	1565.5	1553.2	1540.9	1528.6	1516.3	1504.0	1475.9
42.5°	1664.1	1650.5	1636.9	1623.3	1609.7	1596.0	1582.4	1568.8	1555.2	1541.6	1510.9
45°	1715.5	1701.0	1686.5	1672.0	1657.5	1643.0	1628.5	1614.0	1599.5	1585.0	1551.0
47.5°	1768.8	1752.8	1736.8	1720.7	1704.7	1688.7	1672.7	1656.6	1640.6	1624.6	1587.7
50°	1824.2	1806.8	1789.5	1772.1	1754.8	1737.4	1720.1	1702.7	1685.4	1668.0	1627.4
52.5°	1881.5	1862.2	1842.9	1823.5	1804.2	1784.9	1765.6	1746.2	1726.9	1707.6	1663.7
55°	1932.9	1913.1	1893.4	1873.6	1853.8	1834.1	1814.3	1794.5	1774.8	1755.0	1706.9
57.5°	1982.3	1961.7	1941.0	1920.4	1899.7	1879.1	1858.4	1837.8	1817.1	1796.5	1745.1
60°	2025.8	2004.7	1983.6	1962.5	1941.4	1920.4	1899.3	1878.2	1857.1	1836.0	1781.3
62.5°	2061.3	2039.8	2018.3	1996.8	1975.3	1953.7	1932.2	1910.7	1889.2	1867.7	1810.4
65°	2089.0	2067.0	2045.1	2023.1	2001.2	1979.2	1957.3	1935.3	1913.4	1891.4	1832.1
67.5°	2104.8	2082.6	2060.4	2038.3	2016.1	1993.9	1971.7	1949.6	1927.4	1905.2	1844.4
70°	2102.8	2081.1	2059.3	2037.6	2015.9	1994.1	1972.4	1950.7	1928.9	1907.2	1845.5
72.5°	2083.1	2061.6	2040.1	2018.5	1997.0	1975.5	1954.0	1932.4	1910.9	1889.4	1827.9
75°	2041.6	2020.7	1999.9	1979.0	1958.1	1937.3	1916.4	1895.5	1874.7	1853.8	1793.2
77.5°	1986.2	1966.2	1946.2	1926.3	1906.3	1886.3	1866.3	1846.4	1826.4	1806.4	1746.9
80°	1915.1	1896.0	1876.9	1857.8	1838.7	1819.5	1800.4	1781.3	1762.2	1743.1	1685.4
82.5°	1840.0	1821.1	1802.2	1783.3	1764.4	1745.6	1726.7	1707.8	1688.9	1670.0	1614.4
85°	1766.9	1748.2	1729.6	1710.9	1692.2	1673.6	1654.9	1636.2	1617.6	1598.9	1545.5
87.5°	1691.8	1673.6	1655.3	1637.1	1618.9	1600.6	1582.4	1564.2	1545.9	1527.7	1476.5
90°	1622.6	1605.0	1587.5	1569.9	1552.3	1534.8	1517.2	1499.6	1482.1	1464.5	1415.7
92.5°	1559.3	1542.4	1525.5	1508.6	1491.7	1474.8	1457.9	1441.0	1424.1	1407.2	1360.4
95°	1500.1	1483.8	1467.6	1451.3	1435.1	1418.8	1402.6	1386.3	1370.1	1353.8	1309.0
97.5°	1444.7	1429.1	1413.5	1397.9	1382.3	1366.8	1351.2	1335.6	1320.0	1304.4	1260.9
100°	1393.3	1378.2	1363.0	1347.9	1332.7	1317.6	1302.4	1287.3	1272.1	1257.0	1214.8
102.5°	1343.9	1329.0	1314.0	1299.1	1284.2	1269.2	1254.3	1239.4	1224.4	1209.5	1168.4
105°	1294.5	1280.0	1265.5	1251.0	1236.5	1222.1	1207.6	1193.1	1178.6	1164.1	1124.1
107.5°	1245.1	1231.0	1217.0	1202.9	1188.9	1174.8	1160.8	1146.7	1132.7	1118.6	1080.0
110°	1193.7	1179.9	1166.0	1152.2	1138.4	1124.5	1110.7	1096.9	1083.0	1069.2	1031.9



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1140.4	1127.0	1113.6	1100.2	1086.8	1073.4	1060.0	1046.6	1033.2	1019.8	984.2
115°	1087.0	1074.0	1061.1	1048.1	1035.2	1022.2	1009.3	996.3	983.4	970.4	935.7
117.5°	1031.7	1019.2	1006.7	994.1	981.6	969.1	956.6	944.0	931.5	919.0	886.3
120°	976.3	964.2	952.1	940.1	928.0	915.9	903.8	891.8	879.7	867.6	835.8
122.5°	924.9	912.8	900.7	888.7	876.6	864.5	852.4	840.4	828.3	816.2	785.7
125°	861.7	850.9	840.2	829.4	818.6	807.9	797.1	786.3	775.6	764.8	734.9
127.5°	808.3	797.3	786.3	775.4	764.4	753.4	742.4	731.5	720.5	709.5	680.7
130°	749.0	738.5	727.9	717.4	706.9	696.3	685.8	675.3	664.7	654.2	627.2
132.5°	685.8	675.9	666.0	656.2	646.3	636.4	626.5	616.7	606.8	596.9	571.9
135°	622.6	613.6	604.6	595.6	586.6	577.5	568.5	559.5	550.5	541.5	518.2
137.5°	563.3	554.5	545.7	536.9	528.1	519.4	510.6	501.8	493.0	484.2	462.9
140°	504.0	495.9	487.7	479.6	471.5	463.3	455.2	447.1	438.9	430.8	411.0
142.5°	444.7	437.5	430.2	423.0	415.7	408.5	401.2	394.0	386.7	379.5	361.3
145°	387.4	380.8	374.2	367.6	361.0	354.5	347.9	341.3	334.7	328.1	311.6
147.5°	330.1	324.4	318.7	313.0	307.3	301.5	295.8	290.1	284.4	278.7	264.0
150°	276.7	271.4	266.2	260.9	255.6	250.4	245.1	239.8	234.6	229.3	216.6
152.5°	223.3	218.9	214.5	210.1	205.7	201.4	197.0	192.6	188.2	183.8	172.8
155°	173.9	170.2	166.4	162.7	159.0	155.2	151.5	147.8	144.0	140.3	131.3
157.5°	128.5	125.4	122.3	119.3	116.2	113.1	110.0	107.0	103.9	100.8	93.8
160°	85.0	83.0	81.0	79.1	77.1	75.1	73.1	71.2	69.2	67.2	62.4
162.5°	51.4	49.6	47.9	46.1	44.4	42.6	40.9	39.1	37.4	35.6	33.2
165°	25.7	25.0	24.4	23.7	23.1	22.4	21.8	21.1	20.5	19.8	18.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLELD4-9-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°
0°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	987.1	987.5	988.0	988.4	988.9	989.3	989.8	990.2	988.7	987.1	985.6
5°	1003.6	1003.3	1003.1	1002.9	1002.7	1002.4	1002.2	1002.0	999.4	996.7	994.1
7.5°	1025.1	1023.7	1022.4	1021.1	1019.8	1018.4	1017.1	1015.8	1012.1	1008.3	1004.6
10°	1046.6	1044.2	1041.8	1039.3	1036.9	1034.5	1032.1	1029.7	1024.2	1018.7	1013.2
12.5°	1075.1	1071.2	1067.2	1063.3	1059.3	1055.4	1051.4	1047.5	1039.8	1032.1	1024.4
15°	1112.5	1105.4	1098.4	1091.4	1084.4	1077.3	1070.3	1063.3	1053.4	1043.5	1033.6
17.5°	1151.1	1141.7	1132.2	1122.8	1113.3	1103.9	1094.4	1085.0	1072.3	1059.5	1046.8
20°	1185.6	1174.6	1163.6	1152.7	1141.7	1130.7	1119.7	1108.7	1092.5	1076.2	1060.0
22.5°	1218.1	1205.6	1193.1	1180.5	1168.0	1155.5	1143.0	1130.5	1111.0	1091.4	1071.9
25°	1252.8	1237.9	1223.0	1208.0	1193.1	1178.2	1163.2	1148.3	1125.7	1103.1	1080.4
27.5°	1286.8	1270.1	1253.4	1236.8	1220.1	1203.4	1186.7	1170.0	1144.1	1118.2	1092.3
30°	1318.0	1299.1	1280.2	1261.4	1242.5	1223.6	1204.7	1185.8	1157.0	1128.3	1099.5
32.5°	1349.2	1328.1	1307.0	1286.0	1264.9	1243.8	1222.7	1201.6	1170.4	1139.2	1108.1
35°	1381.9	1358.4	1334.9	1311.4	1287.9	1264.4	1240.9	1217.4	1183.6	1149.8	1116.0
37.5°	1414.7	1388.7	1362.8	1336.9	1311.0	1285.0	1259.1	1233.2	1196.5	1159.9	1123.2
40°	1447.8	1419.7	1391.6	1363.4	1335.3	1307.2	1279.1	1251.0	1211.3	1171.5	1131.8
42.5°	1480.1	1449.4	1418.6	1387.9	1357.1	1326.4	1295.6	1264.9	1222.7	1180.6	1138.4
45°	1516.9	1482.9	1448.9	1414.8	1380.8	1346.8	1312.7	1278.7	1233.5	1188.2	1143.0
47.5°	1550.8	1513.9	1477.0	1440.1	1403.2	1366.3	1329.4	1292.5	1244.2	1195.9	1147.6
50°	1586.8	1546.1	1505.5	1464.9	1424.3	1383.6	1343.0	1302.4	1251.5	1200.5	1149.6
52.5°	1619.8	1575.8	1531.9	1488.0	1444.1	1400.1	1356.2	1312.3	1258.5	1204.7	1150.9
55°	1658.8	1610.7	1562.6	1514.6	1466.5	1418.4	1370.3	1322.2	1265.5	1208.9	1152.2
57.5°	1693.7	1642.3	1590.9	1539.6	1488.2	1436.8	1385.4	1334.0	1274.3	1214.6	1154.8
60°	1726.6	1672.0	1617.3	1562.6	1507.9	1453.3	1398.6	1343.9	1281.1	1218.3	1155.5
62.5°	1753.1	1695.7	1638.4	1581.1	1523.8	1466.4	1409.1	1351.8	1285.9	1220.0	1154.2
65°	1772.8	1713.5	1654.2	1595.0	1535.7	1476.4	1417.1	1357.8	1288.8	1219.9	1150.9
67.5°	1783.6	1722.7	1661.9	1601.1	1540.3	1479.4	1418.6	1357.8	1286.2	1214.6	1143.0
70°	1783.8	1722.1	1660.4	1598.6	1536.9	1475.2	1413.5	1351.8	1278.0	1204.2	1130.5
72.5°	1766.4	1704.9	1643.4	1582.0	1520.5	1459.0	1397.5	1336.0	1260.9	1185.8	1110.7
75°	1732.6	1672.0	1611.4	1550.7	1490.1	1429.5	1368.9	1308.3	1233.2	1158.1	1083.0
77.5°	1687.4	1627.9	1568.4	1508.8	1449.3	1389.8	1330.3	1270.8	1196.1	1121.5	1046.8
80°	1627.6	1569.9	1512.1	1454.4	1396.6	1338.9	1281.1	1223.4	1150.5	1077.6	1004.7
82.5°	1558.9	1503.3	1447.8	1392.2	1336.7	1281.1	1225.6	1170.0	1099.5	1029.0	958.5
85°	1492.2	1438.8	1385.4	1332.1	1278.7	1225.3	1172.0	1118.6	1050.5	982.4	914.4
87.5°	1425.4	1374.2	1323.0	1271.9	1220.7	1169.5	1118.4	1067.2	1001.1	935.0	868.9
90°	1367.0	1318.2	1269.5	1220.7	1172.0	1123.2	1074.5	1025.7	961.8	897.9	834.0
92.5°	1313.6	1266.9	1220.1	1173.3	1126.5	1079.8	1033.0	986.2	924.3	862.4	800.4
95°	1264.2	1219.4	1174.6	1129.8	1085.0	1040.2	995.4	950.6	890.4	830.3	770.1
97.5°	1217.4	1174.0	1130.5	1087.0	1043.5	1000.1	956.6	913.1	854.7	796.3	737.9
100°	1172.7	1130.5	1088.3	1046.2	1004.0	961.8	919.7	877.5	820.6	763.7	706.9
102.5°	1127.4	1086.3	1045.2	1004.2	963.1	922.0	881.0	839.9	784.8	729.7	674.6
105°	1084.2	1044.2	1004.2	964.3	924.3	884.3	844.4	804.4	750.6	696.8	643.0
107.5°	1041.3	1002.7	964.0	925.4	886.7	848.1	809.4	770.8	718.3	665.8	613.3
110°	994.5	957.2	919.9	882.5	845.2	807.9	770.5	733.2	682.3	631.3	580.4



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	948.6	913.1	877.5	841.9	806.3	770.8	735.2	699.6	650.0	600.4	550.7
115°	901.0	866.3	831.6	796.9	762.2	727.5	692.8	658.1	610.7	563.2	515.8
117.5°	853.6	820.8	788.1	755.4	722.7	689.9	657.2	624.5	578.4	532.3	486.2
120°	803.9	772.1	740.2	708.4	676.5	644.7	612.8	581.0	537.1	493.2	449.3
122.5°	755.2	724.6	694.1	663.6	633.1	602.5	572.0	541.5	499.6	457.6	415.7
125°	705.1	675.2	645.4	615.5	585.7	555.8	526.0	496.1	457.0	417.9	378.8
127.5°	652.0	623.2	594.4	565.7	536.9	508.1	479.4	450.6	414.1	377.7	341.2
130°	600.2	573.2	546.2	519.1	492.1	465.1	438.1	411.1	377.1	343.0	309.0
132.5°	546.8	521.8	496.8	471.7	446.7	421.7	396.6	371.6	340.0	308.4	276.7
135°	494.9	471.7	448.4	425.1	401.8	378.6	355.3	332.0	303.0	274.0	245.0
137.5°	441.6	420.3	399.0	377.7	356.4	335.1	313.8	292.5	266.1	239.8	213.4
140°	391.3	371.5	351.8	332.0	312.3	292.5	272.8	253.0	229.5	206.0	182.5
142.5°	343.0	324.8	306.6	288.3	270.1	251.9	233.6	215.4	194.8	174.1	153.5
145°	295.1	278.7	262.2	245.7	229.2	212.8	196.3	179.8	162.2	144.7	127.1
147.5°	249.3	234.6	219.9	205.1	190.4	175.7	161.0	146.3	132.0	117.7	103.5
150°	203.8	191.1	178.3	165.6	152.8	140.1	127.3	114.6	103.4	92.2	81.0
152.5°	161.8	150.9	139.9	128.9	117.9	107.0	96.0	85.0	76.7	68.3	60.0
155°	122.3	113.3	104.3	95.3	86.3	77.3	68.3	59.3	53.4	47.4	41.5
157.5°	86.8	79.7	72.7	65.7	58.7	51.6	44.6	37.6	33.9	30.1	26.4
160°	57.5	52.7	47.9	43.0	38.2	33.4	28.5	23.7	21.1	18.4	15.8
162.5°	30.8	28.3	25.9	23.5	21.1	18.6	16.2	13.8	12.3	10.7	9.2
165°	17.2	15.8	14.5	13.2	11.9	10.5	9.2	7.9	7.0	6.1	5.3
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: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	984.0	982.5	980.9	979.4	977.8	976.3	977.2	978.1	978.9	979.8	980.7
5°	991.5	988.8	986.2	983.6	980.9	978.3	978.5	978.7	979.0	979.2	979.4
7.5°	1000.9	997.1	993.4	989.7	985.9	982.2	981.3	980.4	979.6	978.7	977.8
10°	1007.7	1002.3	996.8	991.3	985.8	980.3	978.3	976.3	974.4	972.4	970.4
12.5°	1016.7	1009.1	1001.4	993.7	986.0	978.3	975.0	971.7	968.4	965.1	961.8
15°	1023.7	1013.9	1004.0	994.1	984.2	974.3	969.7	965.1	960.5	955.9	951.2
17.5°	1034.1	1021.3	1008.6	995.9	983.1	970.4	964.0	957.7	951.3	944.9	938.6
20°	1043.7	1027.5	1011.2	995.0	978.7	962.5	954.6	946.7	938.8	930.9	922.9
22.5°	1052.3	1032.8	1013.2	993.7	974.1	954.6	944.9	935.3	925.6	915.9	906.3
25°	1057.8	1035.2	1012.6	989.9	967.3	944.7	933.3	921.9	910.4	899.0	887.6
27.5°	1066.4	1040.4	1014.5	988.6	962.7	936.8	923.0	909.1	895.3	881.5	867.6
30°	1070.7	1042.0	1013.2	984.4	955.7	926.9	910.9	894.8	878.8	862.8	846.7
32.5°	1076.9	1045.7	1014.5	983.4	952.2	921.0	901.9	882.8	863.7	844.6	825.4
35°	1082.2	1048.3	1014.5	980.7	946.9	913.1	891.1	869.2	847.2	825.2	803.3
37.5°	1086.5	1049.9	1013.2	976.5	939.9	903.2	878.4	853.6	828.8	804.0	779.1
40°	1092.0	1052.3	1012.5	972.8	933.0	893.3	865.6	838.0	810.3	782.6	755.0
42.5°	1096.2	1054.1	1011.9	969.7	927.6	885.4	854.4	823.5	792.5	761.5	730.6
45°	1097.8	1052.5	1007.3	962.1	916.8	871.6	838.0	804.4	770.8	737.2	703.6
47.5°	1099.3	1050.9	1002.6	954.3	906.0	857.7	821.3	784.8	748.4	711.9	675.5
50°	1098.6	1047.7	996.7	945.8	894.8	843.9	804.4	764.9	725.3	685.8	646.3
52.5°	1097.1	1043.3	989.5	935.7	881.9	828.1	785.9	743.8	701.6	659.4	617.3
55°	1095.6	1038.9	982.3	925.6	869.0	812.3	767.7	723.1	678.6	634.0	589.4
57.5°	1095.1	1035.4	975.7	915.9	856.2	796.5	749.3	702.1	654.9	607.7	560.4
60°	1092.7	1029.9	967.1	904.3	841.5	778.7	729.3	679.9	630.5	581.1	531.6
62.5°	1088.3	1022.4	956.5	890.7	824.8	758.9	707.5	656.1	604.8	553.4	502.0
65°	1082.0	1013.0	944.1	875.1	806.2	737.2	683.8	630.5	577.1	523.7	470.4
67.5°	1071.4	999.9	928.3	856.7	785.1	713.5	658.8	604.1	549.5	494.8	440.1
70°	1056.7	982.9	909.1	835.4	761.6	687.8	631.8	575.8	519.8	463.8	407.8
72.5°	1035.6	960.5	885.4	810.3	735.2	660.1	603.7	547.2	490.8	434.4	377.9
75°	1007.9	932.8	857.7	782.6	707.5	632.4	575.5	518.7	461.8	404.9	348.1
77.5°	972.1	897.5	822.8	748.1	673.5	598.8	542.1	485.5	428.8	372.2	315.5
80°	931.8	858.8	785.9	713.0	640.1	567.2	511.0	454.8	398.6	342.4	286.1
82.5°	888.0	817.6	747.1	676.6	606.1	535.6	480.3	424.9	369.6	314.3	258.9
85°	846.3	778.2	710.1	642.1	574.0	505.9	451.4	397.0	342.5	288.1	233.6
87.5°	802.8	736.7	670.6	604.5	538.4	472.3	420.0	367.8	315.5	263.3	211.0
90°	770.1	706.2	642.3	578.4	514.5	450.6	400.5	350.5	300.4	250.3	200.3
92.5°	738.5	676.6	614.7	552.7	490.8	428.9	381.2	333.6	285.9	238.3	190.6
95°	709.9	649.8	589.6	529.4	469.3	409.1	363.6	318.2	272.7	227.3	181.8
97.5°	679.5	621.0	562.6	504.2	445.8	387.4	344.4	301.3	258.3	215.2	172.2
100°	650.0	593.1	536.2	479.4	422.5	365.6	325.0	284.4	243.7	203.1	162.5
102.5°	619.5	564.3	509.2	454.1	399.0	343.9	305.7	267.5	229.3	191.1	152.8
105°	589.2	535.4	481.6	427.8	374.0	320.2	284.6	249.0	213.5	177.9	142.3
107.5°	560.8	508.4	455.9	403.4	350.9	298.4	265.2	232.1	198.9	165.8	132.6
110°	529.4	478.5	427.5	376.6	325.6	274.7	244.2	213.7	183.1	152.6	122.1



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	501.1	451.5	401.9	352.2	302.6	253.0	224.9	196.8	168.7	140.6	112.4
115°	468.4	420.9	373.5	326.1	278.6	231.2	205.5	179.8	154.1	128.4	102.8
117.5°	440.1	393.9	347.8	301.7	255.6	209.5	186.2	162.9	139.7	116.4	93.1
120°	405.4	361.4	317.5	273.6	229.7	185.8	165.2	144.5	123.9	103.2	82.6
122.5°	373.7	331.8	289.8	247.9	205.9	164.0	145.8	127.6	109.3	91.1	72.9
125°	339.7	300.7	261.6	222.5	183.4	144.3	128.3	112.2	96.2	80.2	64.1
127.5°	304.8	268.3	231.9	195.4	159.0	122.5	108.9	95.3	81.7	68.1	54.4
130°	274.9	240.9	206.8	172.8	138.7	104.7	93.1	81.4	69.8	58.2	46.5
132.5°	245.1	213.5	181.9	150.2	118.6	87.0	77.3	67.7	58.0	48.3	38.7
135°	216.0	187.1	158.1	129.1	100.1	71.1	63.2	55.3	47.4	39.5	31.6
137.5°	187.1	160.7	134.4	108.0	81.7	55.3	49.2	43.0	36.9	30.7	24.6
140°	159.0	135.5	112.0	88.5	65.0	41.5	36.9	32.3	27.7	23.1	18.4
142.5°	132.8	112.2	91.5	70.9	50.2	29.6	26.3	23.0	19.7	16.4	13.2
145°	109.5	92.0	74.4	56.8	39.3	21.7	19.3	16.9	14.5	12.1	9.6
147.5°	89.2	74.9	60.6	46.4	32.1	17.8	15.8	13.8	11.9	9.9	7.9
150°	69.8	58.6	47.4	36.2	25.0	13.8	12.3	10.7	9.2	7.7	6.1
152.5°	51.6	43.3	34.9	26.6	18.2	9.9	8.8	7.7	6.6	5.5	4.4
155°	35.6	29.6	23.7	17.8	11.8	5.9	5.2	4.6	3.9	3.3	2.6
157.5°	22.7	18.9	15.2	11.5	7.7	4.0	3.6	3.1	2.7	2.2	1.8
160°	13.2	10.5	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	7.7	6.1	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
165°	4.4	3.5	2.6	1.8	0.9	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: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	981.6	982.4	983.3	984.2	982.2	980.2	978.3	976.3	974.3	972.3	970.4
5°	979.6	979.9	980.1	980.3	977.7	975.0	972.4	969.8	967.1	964.5	961.9
7.5°	976.9	976.1	975.2	974.3	971.0	967.7	964.4	961.1	957.9	954.6	951.3
10°	968.4	966.5	964.5	962.5	958.8	955.0	951.3	947.6	943.8	940.1	936.4
12.5°	958.5	955.2	951.9	948.6	944.7	940.7	936.8	932.8	928.9	924.9	921.0
15°	946.6	942.0	937.4	932.8	928.4	924.0	919.6	915.2	910.9	906.5	902.1
17.5°	932.2	925.8	919.5	913.1	909.1	905.2	901.2	897.3	893.3	889.4	885.4
20°	915.0	907.1	899.2	891.3	887.1	883.0	878.8	874.6	870.5	866.3	862.1
22.5°	896.6	886.9	877.3	867.6	863.9	860.1	856.4	852.7	848.9	845.2	841.5
25°	876.2	864.7	853.3	841.9	838.8	835.8	832.7	829.6	826.6	823.5	820.4
27.5°	853.8	840.0	826.1	812.3	810.1	807.9	805.7	803.5	801.3	799.1	796.9
30°	830.7	814.7	798.6	782.6	781.5	780.4	779.3	778.2	777.2	776.1	775.0
32.5°	806.3	787.2	768.1	749.0	749.4	749.9	750.3	750.8	751.2	751.7	752.1
35°	781.3	759.3	737.4	715.4	718.0	720.7	723.3	726.0	728.6	731.3	733.9
37.5°	754.3	729.5	704.7	679.9	684.7	689.5	694.4	699.2	704.0	708.8	713.7
40°	727.3	699.6	672.0	644.3	651.8	659.2	666.7	674.2	681.6	689.1	696.6
42.5°	699.6	668.6	637.7	606.7	616.8	626.9	637.0	647.1	657.3	667.4	677.5
45°	670.0	636.4	602.8	569.2	581.7	594.2	606.7	619.2	631.8	644.3	656.8
47.5°	639.0	602.6	566.1	529.7	544.8	560.0	575.1	590.3	605.4	620.6	635.7
50°	606.8	567.2	527.7	488.2	506.2	524.2	542.2	560.2	578.2	596.2	614.2
52.5°	575.1	532.9	490.8	448.6	469.2	489.9	510.5	531.2	551.8	572.5	593.1
55°	544.8	500.3	455.7	411.1	433.7	456.3	478.9	501.5	524.2	546.8	569.4
57.5°	513.2	466.0	418.8	371.6	396.6	421.7	446.7	471.7	496.8	521.8	546.8
60°	482.2	432.8	383.4	334.0	361.0	388.0	415.0	442.0	469.1	496.1	523.1
62.5°	450.6	399.3	347.9	296.5	325.3	354.0	382.8	411.6	440.3	469.1	497.9
65°	417.0	363.6	310.3	256.9	287.6	318.4	349.1	379.9	410.6	441.4	472.1
67.5°	385.4	330.8	276.1	221.4	253.7	286.0	318.2	350.5	382.8	415.1	447.3
70°	351.8	295.8	239.8	183.8	217.0	250.1	283.3	316.4	349.6	382.7	415.9
72.5°	321.5	265.1	208.6	152.2	186.2	220.3	254.3	288.3	322.4	356.4	390.4
75°	291.2	234.3	177.5	120.6	155.5	190.4	225.3	260.2	295.2	330.1	365.0
77.5°	258.9	202.2	145.6	88.9	124.5	160.1	195.6	231.2	266.8	302.4	337.9
80°	229.9	173.7	117.5	61.3	97.1	132.9	168.7	204.5	240.2	276.0	311.8
82.5°	203.6	148.3	92.9	37.6	73.4	109.2	145.0	180.8	216.5	252.3	288.1
85°	179.2	124.7	70.3	15.8	51.4	87.0	122.5	158.1	193.7	229.3	264.8
87.5°	158.8	106.5	54.3	2.0	36.7	71.4	106.1	140.8	175.4	210.1	244.8
90°	150.2	100.1	50.1	0.0	32.9	65.9	98.8	131.8	164.7	197.7	230.6
92.5°	143.0	95.3	47.7	0.0	31.8	63.7	95.5	127.4	159.2	191.1	222.9
95°	136.4	90.9	45.5	0.0	30.5	61.0	91.6	122.1	152.6	183.1	213.7
97.5°	129.1	86.1	43.0	0.0	29.2	58.4	87.6	116.8	146.1	175.3	204.5
100°	121.9	81.2	40.6	0.0	27.9	55.8	83.7	111.6	139.4	167.3	195.2
102.5°	114.6	76.4	38.2	0.0	26.4	52.7	79.1	105.4	131.8	158.1	184.5
105°	106.7	71.2	35.6	0.0	25.0	50.1	75.1	100.1	125.2	150.2	175.2
107.5°	99.5	66.3	33.2	0.0	23.5	47.0	70.5	94.0	117.5	141.0	164.5
110°	91.6	61.0	30.5	0.0	22.0	43.9	65.9	87.8	109.8	131.7	153.7



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	84.3	56.2	28.1	0.0	20.2	40.4	60.6	80.8	101.0	121.2	141.4
115°	77.1	51.4	25.7	0.0	18.4	36.9	55.3	73.8	92.2	110.7	129.1
117.5°	69.8	46.6	23.3	0.0	16.7	33.4	50.1	66.8	83.4	100.1	116.8
120°	61.9	41.3	20.6	0.0	15.2	30.3	45.5	60.6	75.8	90.9	106.1
122.5°	54.7	36.4	18.2	0.0	13.6	27.2	40.8	54.4	68.1	81.7	95.3
125°	48.1	32.1	16.0	0.0	11.6	23.3	34.9	46.5	58.2	69.8	81.4
127.5°	40.8	27.2	13.6	0.0	9.7	19.3	29.0	38.7	48.3	58.0	67.7
130°	34.9	23.3	11.6	0.0	7.9	15.8	23.7	31.6	39.5	47.4	55.3
132.5°	29.0	19.3	9.7	0.0	6.1	12.3	18.4	24.6	30.7	36.9	43.0
135°	23.7	15.8	7.9	0.0	4.6	9.2	13.8	18.4	23.1	27.7	32.3
137.5°	18.4	12.3	6.1	0.0	3.3	6.6	9.9	13.2	16.4	19.7	23.0
140°	13.8	9.2	4.6	0.0	2.0	4.0	5.9	7.9	9.9	11.9	13.8
142.5°	9.9	6.6	3.3	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7
145°	7.2	4.8	2.4	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
147.5°	5.9	4.0	2.0	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°	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°	1.3	0.9	0.4	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: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	968.4	966.4	966.0	965.5	965.1	964.7	964.2	963.8	963.4	962.9	962.5
5°	959.2	956.6	955.7	954.8	953.9	953.0	952.2	951.3	950.4	949.5	948.6
7.5°	948.0	944.7	943.6	942.5	941.4	940.3	939.2	938.1	937.0	935.9	934.8
10°	932.6	928.9	927.8	926.7	925.6	924.5	923.4	922.3	921.2	920.1	919.0
12.5°	917.0	913.1	912.4	911.8	911.1	910.4	909.8	909.1	908.4	907.8	907.1
15°	897.7	893.3	893.7	894.2	894.6	895.1	895.5	896.0	896.4	896.9	897.3
17.5°	881.5	877.5	879.3	881.0	882.8	884.5	886.3	888.0	889.8	891.5	893.3
20°	858.0	853.8	858.2	862.6	867.0	871.4	875.7	880.1	884.5	888.9	893.3
22.5°	837.7	834.0	841.7	849.4	857.1	864.8	872.4	880.1	887.8	895.5	903.2
25°	817.4	814.3	825.3	836.3	847.2	858.2	869.2	880.2	891.1	902.1	913.1
27.5°	794.7	792.5	807.0	821.5	836.0	850.5	865.0	879.5	894.0	908.5	923.0
30°	773.9	772.8	790.4	807.9	825.5	843.1	860.6	878.2	895.8	913.3	930.9
32.5°	752.6	753.0	773.4	793.8	814.3	834.7	855.1	875.5	896.0	916.4	936.8
35°	736.6	739.2	761.8	784.4	807.0	829.6	852.3	874.9	897.5	920.1	942.7
37.5°	718.5	723.3	747.9	772.5	797.1	821.7	846.3	870.9	895.5	920.1	944.7
40°	704.0	711.5	737.8	764.2	790.5	816.9	843.2	869.6	895.9	922.3	948.6
42.5°	687.6	697.7	725.6	753.5	781.3	809.2	837.1	865.0	892.8	920.7	948.6
45°	669.3	681.8	711.4	741.1	770.7	800.4	830.0	859.7	889.3	919.0	948.6
47.5°	650.9	666.0	697.4	728.8	760.2	791.6	823.0	854.4	885.8	917.2	948.6
50°	632.2	650.2	683.1	716.1	749.0	782.0	814.9	847.9	880.8	913.8	946.7
52.5°	613.8	634.4	668.7	702.9	737.2	771.4	805.7	839.9	874.2	908.4	942.7
55°	592.0	614.6	650.4	686.2	722.0	757.8	793.6	829.4	865.2	901.0	936.8
57.5°	571.9	596.9	634.0	671.1	708.2	745.3	782.5	819.6	856.7	893.8	930.9
60°	550.1	577.1	615.5	654.0	692.4	730.8	769.3	807.7	846.1	884.6	923.0
62.5°	526.6	555.4	595.4	635.3	675.3	715.3	755.2	795.2	835.2	875.1	915.1
65°	502.9	533.6	574.9	616.2	657.5	698.8	740.0	781.3	822.6	863.9	905.2
67.5°	479.6	511.9	554.1	596.2	638.4	680.5	722.7	764.8	807.0	849.1	891.3
70°	449.0	482.2	525.9	569.6	613.3	657.0	700.7	744.4	788.1	831.8	875.5
72.5°	424.5	458.5	502.6	546.8	590.9	635.1	679.2	723.4	767.5	811.7	855.8
75°	399.9	434.8	479.2	523.5	567.9	612.2	656.6	700.9	745.3	789.6	834.0
77.5°	373.5	409.1	453.5	497.8	542.2	586.5	630.9	675.2	719.6	763.9	808.3
80°	347.6	383.4	427.3	471.2	515.2	559.1	603.0	646.9	690.9	734.8	778.7
82.5°	323.9	359.7	403.0	446.2	489.5	532.7	576.0	619.2	662.5	705.7	749.0
85°	300.4	336.0	378.6	421.2	463.8	506.4	549.0	591.6	634.2	676.8	719.4
87.5°	279.5	314.2	355.7	397.2	438.7	480.2	521.8	563.3	604.8	646.3	687.8
90°	263.6	296.5	337.3	378.2	419.0	459.9	500.7	541.6	582.4	623.3	664.1
92.5°	254.8	286.6	326.3	366.1	405.8	445.6	485.3	525.1	564.8	604.6	644.3
95°	244.2	274.7	314.0	353.3	392.6	431.9	471.3	510.6	549.9	589.2	628.5
97.5°	233.7	262.9	301.5	340.2	378.8	417.5	456.1	494.8	533.4	572.1	610.7
100°	223.1	251.0	289.0	327.0	365.0	403.0	440.9	478.9	516.9	554.9	592.9
102.5°	210.8	237.2	274.7	312.3	349.8	387.4	424.9	462.5	500.0	537.6	575.1
105°	200.3	225.3	262.0	298.7	335.3	372.0	408.7	445.4	482.0	518.7	555.4
107.5°	188.0	211.5	247.3	283.1	318.9	354.7	390.4	426.2	462.0	497.8	533.6
110°	175.6	197.6	232.5	267.4	302.4	337.3	372.2	407.1	442.1	477.0	511.9



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	161.6	181.8	215.4	249.0	282.6	316.2	349.8	383.4	417.0	450.6	484.2
115°	147.6	166.0	198.9	231.9	264.8	297.8	330.7	363.7	396.6	429.6	462.5
117.5°	133.5	150.2	182.0	213.9	245.7	277.6	309.4	341.3	373.1	405.0	436.8
120°	121.2	136.4	167.1	197.9	228.6	259.4	290.1	320.9	351.6	382.4	413.1
122.5°	108.9	122.5	151.9	181.4	210.8	240.2	269.7	299.1	328.5	358.0	387.4
125°	93.1	104.7	132.8	160.9	189.0	217.1	245.3	273.4	301.5	329.6	357.7
127.5°	77.3	87.0	113.6	140.1	166.7	193.3	219.8	246.4	273.0	299.5	326.1
130°	63.2	71.1	95.0	119.0	142.9	166.9	190.8	214.8	238.7	262.7	286.6
132.5°	49.2	55.3	76.8	98.3	119.9	141.4	162.9	184.4	206.0	227.5	249.0
135°	36.9	41.5	60.8	80.1	99.5	118.8	138.1	157.4	176.8	196.1	215.4
137.5°	26.3	29.6	46.7	63.9	81.0	98.1	115.3	132.4	149.5	166.7	183.8
140°	15.8	17.8	33.0	48.1	63.3	78.4	93.6	108.7	123.9	139.0	154.2
142.5°	8.8	9.9	22.9	35.8	48.8	61.7	74.7	87.6	100.6	113.5	126.5
145°	3.6	4.0	14.8	25.5	36.3	47.0	57.8	68.5	79.3	90.0	100.8
147.5°	0.0	0.0	8.8	17.6	26.4	35.2	43.9	52.7	61.5	70.3	79.1
150°	0.0	0.0	6.4	12.7	19.1	25.5	31.8	38.2	44.6	50.9	57.3
152.5°	0.0	0.0	4.2	8.4	12.5	16.7	20.9	25.1	29.2	33.4	37.6
155°	0.0	0.0	2.4	4.8	7.2	9.6	12.1	14.5	16.9	19.3	21.7
157.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9
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: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	961.8	961.2	960.5	959.9	959.2	958.6	957.9	957.3	956.6	955.7	954.8
5°	947.7	946.8	946.0	945.1	944.2	943.3	942.5	941.6	940.7	940.3	939.8
7.5°	934.1	933.5	932.8	932.2	931.5	930.9	930.2	929.6	928.9	928.7	928.5
10°	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0	919.0
12.5°	908.2	909.3	910.4	911.5	912.6	913.7	914.8	915.9	917.0	917.4	917.9
15°	899.9	902.6	905.2	907.8	910.5	913.1	915.7	918.4	921.0	922.5	924.1
17.5°	898.6	903.8	909.1	914.4	919.6	924.9	930.2	935.4	940.7	943.1	945.5
20°	901.0	908.7	916.4	924.1	931.7	939.4	947.1	954.8	962.5	965.4	968.2
22.5°	912.4	921.6	930.9	940.1	949.3	958.5	967.8	977.0	986.2	989.3	992.4
25°	923.4	933.7	944.1	954.4	964.7	975.0	985.4	995.7	1006.0	1009.7	1013.5
27.5°	934.4	945.8	957.2	968.6	980.1	991.5	1002.9	1014.3	1025.7	1029.9	1034.1
30°	943.4	955.9	968.4	980.9	993.5	1006.0	1018.5	1031.0	1043.5	1048.3	1053.2
32.5°	950.9	964.9	979.0	993.0	1007.1	1021.1	1035.2	1049.2	1063.3	1068.6	1073.8
35°	957.9	973.0	988.2	1003.3	1018.5	1033.6	1048.8	1063.9	1079.1	1085.2	1091.4
37.5°	961.4	978.1	994.8	1011.5	1028.1	1044.8	1061.5	1078.2	1094.9	1101.7	1108.5
40°	966.6	984.6	1002.6	1020.6	1038.7	1056.7	1074.7	1092.7	1110.7	1118.2	1125.6
42.5°	968.1	987.7	1007.2	1026.8	1046.3	1065.9	1085.4	1105.0	1124.5	1132.8	1141.2
45°	969.7	990.8	1011.9	1033.0	1054.0	1075.1	1096.2	1117.3	1138.4	1147.4	1156.4
47.5°	971.2	993.8	1016.5	1039.1	1061.7	1084.3	1107.0	1129.6	1152.2	1161.9	1171.5
50°	970.9	995.0	1019.2	1043.3	1067.5	1091.6	1115.8	1139.9	1164.1	1174.6	1185.2
52.5°	968.8	995.0	1021.1	1047.2	1073.4	1099.5	1125.6	1151.8	1177.9	1188.9	1199.9
55°	964.5	992.1	1019.8	1047.5	1075.1	1102.8	1130.5	1158.1	1185.8	1197.4	1209.1
57.5°	960.1	989.3	1018.5	1047.7	1076.9	1106.1	1135.3	1164.5	1193.7	1205.8	1217.9
60°	953.5	984.0	1014.6	1045.1	1075.6	1106.1	1136.7	1167.2	1197.7	1210.2	1222.7
62.5°	946.5	977.9	1009.3	1040.7	1072.1	1103.5	1134.9	1166.3	1197.7	1210.4	1223.2
65°	937.5	969.8	1002.0	1034.3	1066.6	1098.9	1131.1	1163.4	1195.7	1208.4	1221.2
67.5°	924.2	957.2	990.1	1023.1	1056.0	1089.0	1121.9	1154.9	1187.8	1200.8	1213.7
70°	908.9	942.3	975.6	1009.0	1042.4	1075.8	1109.1	1142.5	1175.9	1189.1	1202.3
72.5°	889.4	923.0	956.6	990.2	1023.7	1057.3	1090.9	1124.5	1158.1	1171.3	1184.5
75°	867.8	901.6	935.5	969.3	1003.1	1036.9	1070.8	1104.6	1138.4	1151.4	1164.3
77.5°	841.7	875.1	908.4	941.8	975.2	1008.6	1041.9	1075.3	1108.7	1121.4	1134.2
80°	811.9	845.0	878.2	911.3	944.5	977.6	1010.8	1043.9	1077.1	1090.1	1103.0
82.5°	781.9	814.9	847.8	880.8	913.7	946.7	979.6	1012.6	1045.5	1057.8	1070.1
85°	751.7	784.0	816.2	848.5	880.8	913.1	945.3	977.6	1009.9	1022.2	1034.5
87.5°	719.4	751.0	782.7	814.3	845.9	877.5	909.2	940.8	972.4	984.5	996.6
90°	694.8	725.6	756.3	787.0	817.8	848.5	879.2	910.0	940.7	952.3	964.0
92.5°	674.4	704.5	734.6	764.7	794.7	824.8	854.9	885.0	915.1	926.3	937.5
95°	657.7	686.9	716.1	745.3	774.5	803.7	832.9	862.1	891.3	902.5	913.7
97.5°	639.2	667.8	696.3	724.9	753.4	782.0	810.5	839.1	867.6	878.4	889.1
100°	621.2	649.6	677.9	706.2	734.6	762.9	791.2	819.6	847.9	858.2	868.5
102.5°	602.8	630.4	658.1	685.8	713.4	741.1	768.8	796.4	824.1	834.2	844.3
105°	582.6	609.8	637.1	664.3	691.5	718.7	746.0	773.2	800.4	810.5	820.6
107.5°	560.2	586.8	613.3	639.9	666.5	693.1	719.6	746.2	772.8	782.9	793.0
110°	537.8	563.7	589.6	615.5	641.5	667.4	693.3	719.2	745.1	754.8	764.4



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	510.1	536.0	561.9	587.8	613.8	639.7	665.6	691.5	717.4	726.8	736.3
115°	487.3	512.1	536.9	561.7	586.6	611.4	636.2	661.0	685.8	694.8	703.8
117.5°	461.0	485.1	509.3	533.4	557.6	581.7	605.9	630.0	654.2	663.2	672.2
120°	436.4	459.7	482.9	506.2	529.5	552.8	576.0	599.3	622.6	631.2	639.7
122.5°	409.6	431.8	453.9	476.1	498.3	520.5	542.6	564.8	587.0	595.6	604.1
125°	379.2	400.7	422.3	443.8	465.3	486.8	508.4	529.9	551.4	559.5	567.6
127.5°	347.2	368.3	389.3	410.4	431.5	452.6	473.6	494.7	515.8	523.5	531.2
130°	307.5	328.3	349.2	370.0	390.9	411.7	432.6	453.4	474.3	482.2	490.1
132.5°	269.2	289.4	309.6	329.8	350.0	370.2	390.4	410.6	430.8	438.7	446.6
135°	234.9	254.5	274.0	293.6	313.1	332.7	352.2	371.8	391.3	398.5	405.8
137.5°	202.5	221.1	239.8	258.5	277.1	295.8	314.5	333.1	351.8	358.4	365.0
140°	170.9	187.6	204.3	221.0	237.6	254.3	271.0	287.7	304.4	311.4	318.4
142.5°	141.0	155.5	170.0	184.5	198.9	213.4	227.9	242.4	256.9	264.4	271.8
145°	113.5	126.3	139.0	151.7	164.5	177.2	189.9	202.7	215.4	223.1	230.8
147.5°	89.9	100.6	111.4	122.1	132.9	143.6	154.4	165.1	175.9	183.6	191.3
150°	66.5	75.7	85.0	94.2	103.4	112.6	121.9	131.1	140.3	147.8	155.2
152.5°	45.3	53.0	60.6	68.3	76.0	83.7	91.3	99.0	106.7	113.7	120.8
155°	27.6	33.6	39.5	45.4	51.4	57.3	63.2	69.2	75.1	81.5	87.8
157.5°	14.3	18.7	23.1	27.5	31.8	36.2	40.6	45.0	49.4	54.9	60.4
160°	2.9	5.7	8.6	11.4	14.3	17.1	20.0	22.8	25.7	29.9	34.0
162.5°	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.9	10.8	13.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	953.9	953.0	952.2	951.3	950.4	949.5	948.6	949.0	949.5	949.9	950.4
5°	939.4	939.0	938.5	938.1	937.7	937.2	936.8	937.0	937.2	937.5	937.7
7.5°	928.2	928.0	927.8	927.6	927.3	927.1	926.9	926.9	926.9	926.9	926.9
10°	919.0	919.0	919.0	919.0	919.0	919.0	919.0	918.6	918.1	917.7	917.3
12.5°	918.3	918.8	919.2	919.7	920.1	920.6	921.0	920.1	919.2	918.4	917.5
15°	925.6	927.1	928.7	930.2	931.7	933.3	934.8	933.3	931.7	930.2	928.7
17.5°	948.0	950.4	952.8	955.2	957.7	960.1	962.5	959.9	957.2	954.6	952.0
20°	971.1	973.9	976.8	979.6	982.5	985.3	988.2	984.9	981.6	978.3	975.0
22.5°	995.4	998.5	1001.6	1004.7	1007.7	1010.8	1013.9	1009.9	1006.0	1002.0	998.1
25°	1017.2	1020.9	1024.7	1028.4	1032.1	1035.9	1039.6	1035.2	1030.8	1026.4	1022.0
27.5°	1038.2	1042.4	1046.6	1050.8	1054.9	1059.1	1063.3	1058.7	1054.1	1049.5	1044.9
30°	1058.0	1062.8	1067.7	1072.5	1077.3	1082.2	1087.0	1081.7	1076.5	1071.2	1065.9
32.5°	1079.1	1084.4	1089.6	1094.9	1100.2	1105.4	1110.7	1104.8	1098.8	1092.9	1087.0
35°	1097.5	1103.7	1109.8	1116.0	1122.1	1128.3	1134.4	1127.8	1121.2	1114.6	1108.0
37.5°	1115.3	1122.1	1129.0	1135.8	1142.6	1149.4	1156.2	1149.2	1142.1	1135.1	1128.1
40°	1133.1	1140.6	1148.0	1155.5	1163.0	1170.4	1177.9	1170.4	1163.0	1155.5	1148.0
42.5°	1149.5	1157.9	1166.2	1174.6	1182.9	1191.3	1199.6	1191.3	1182.9	1174.6	1166.2
45°	1165.4	1174.4	1183.4	1192.4	1201.4	1210.4	1219.4	1210.6	1201.8	1193.1	1184.3
47.5°	1181.2	1190.9	1200.5	1210.2	1219.9	1229.5	1239.2	1229.8	1220.3	1210.9	1201.4
50°	1195.7	1206.2	1216.8	1227.3	1237.8	1248.4	1258.9	1248.8	1238.7	1228.6	1218.5
52.5°	1210.8	1221.8	1232.8	1243.8	1254.7	1265.7	1276.7	1265.9	1255.2	1244.4	1233.7
55°	1220.7	1232.4	1244.0	1255.7	1267.3	1279.0	1290.6	1279.4	1268.2	1257.0	1245.8
57.5°	1229.9	1242.0	1254.1	1266.2	1278.2	1290.3	1302.4	1291.0	1279.6	1268.1	1256.7
60°	1235.2	1247.7	1260.3	1272.8	1285.3	1297.8	1310.3	1298.4	1286.6	1274.7	1262.9
62.5°	1235.9	1248.6	1261.4	1274.1	1286.8	1299.6	1312.3	1300.4	1288.6	1276.7	1264.9
65°	1233.9	1246.6	1259.4	1272.1	1284.8	1297.6	1310.3	1298.4	1286.6	1274.7	1262.9
67.5°	1226.7	1239.6	1252.6	1265.5	1278.5	1291.4	1304.4	1292.3	1280.2	1268.2	1256.1
70°	1215.4	1228.6	1241.8	1255.0	1268.1	1281.3	1294.5	1282.4	1270.3	1258.3	1246.2
72.5°	1197.6	1210.8	1224.0	1237.2	1250.3	1263.5	1276.7	1264.8	1253.0	1241.1	1229.3
75°	1177.3	1190.2	1203.2	1216.1	1229.1	1242.0	1255.0	1242.9	1230.8	1218.8	1206.7
77.5°	1146.9	1159.7	1172.4	1185.2	1197.9	1210.7	1223.4	1211.8	1200.1	1188.5	1176.8
80°	1116.0	1128.9	1141.9	1154.8	1167.8	1180.7	1193.7	1181.8	1170.0	1158.1	1146.3
82.5°	1082.4	1094.7	1107.0	1119.3	1131.6	1143.9	1156.2	1144.8	1133.4	1121.9	1110.5
85°	1046.8	1059.1	1071.4	1083.7	1096.0	1108.3	1120.6	1109.2	1097.8	1086.3	1074.9
87.5°	1008.6	1020.7	1032.8	1044.9	1056.9	1069.0	1081.1	1069.7	1058.3	1046.8	1035.4
90°	975.6	987.3	998.9	1010.6	1022.2	1033.9	1045.5	1034.7	1024.0	1013.2	1002.4
92.5°	948.7	959.9	971.0	982.2	993.4	1004.6	1015.8	1005.3	994.7	984.2	973.7
95°	924.9	936.1	947.3	958.5	969.7	980.9	992.1	981.8	971.5	961.1	950.8
97.5°	899.9	910.7	921.4	932.2	943.0	953.7	964.5	954.6	944.7	934.8	924.9
100°	878.8	889.1	899.5	909.8	920.1	930.4	940.7	930.6	920.5	910.4	900.3
102.5°	854.4	864.5	874.7	884.8	894.9	905.0	915.1	905.7	896.2	886.8	877.3
105°	830.7	840.8	850.9	861.0	871.1	881.2	891.3	881.9	872.4	863.0	853.6
107.5°	803.1	813.2	823.3	833.4	843.5	853.6	863.7	854.0	844.4	834.7	825.0
110°	774.1	783.7	793.4	803.0	812.7	822.3	832.0	823.0	814.0	805.0	796.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	745.7	755.2	764.6	774.1	783.5	793.0	802.4	793.0	783.5	774.1	764.6
115°	712.8	721.8	730.8	739.8	748.8	757.8	766.8	758.0	749.2	740.5	731.7
117.5°	681.2	690.2	699.2	708.2	717.2	726.2	735.2	726.9	718.5	710.2	701.8
120°	648.3	656.8	665.4	673.9	682.5	691.0	699.6	691.3	682.9	674.6	666.2
122.5°	612.7	621.3	629.8	638.4	647.0	655.5	664.1	656.2	648.3	640.4	632.5
125°	575.8	583.9	592.0	600.1	608.3	616.4	624.5	617.3	610.0	602.8	595.5
127.5°	538.9	546.6	554.2	561.9	569.6	577.3	585.0	578.0	571.0	563.9	556.9
130°	498.0	505.9	513.9	521.8	529.7	537.6	545.5	538.3	531.0	523.8	516.5
132.5°	454.5	462.4	470.4	478.3	486.2	494.1	502.0	495.2	488.4	481.6	474.8
135°	413.0	420.3	427.5	434.8	442.0	449.3	456.5	450.6	444.7	438.7	432.8
137.5°	371.6	378.2	384.7	391.3	397.9	404.5	411.1	405.6	400.1	394.6	389.1
140°	325.5	332.5	339.5	346.5	353.6	360.6	367.6	362.5	357.5	352.4	347.4
142.5°	279.3	286.8	294.2	301.7	309.2	316.6	324.1	319.7	315.3	310.9	306.5
145°	238.5	246.2	253.8	261.5	269.2	276.9	284.6	280.6	276.7	272.7	268.8
147.5°	199.0	206.7	214.3	222.0	229.7	237.4	245.1	241.6	238.1	234.5	231.0
150°	162.7	170.2	177.6	185.1	192.6	200.0	207.5	204.4	201.3	198.3	195.2
152.5°	127.8	134.8	141.9	148.9	155.9	163.0	170.0	167.1	164.3	161.4	158.6
155°	94.2	100.6	106.9	113.3	119.7	126.0	132.4	130.2	128.0	125.8	123.6
157.5°	65.9	71.4	76.8	82.3	87.8	93.3	98.8	96.8	94.8	92.9	90.9
160°	38.2	42.4	46.5	50.7	54.9	59.0	63.2	61.9	60.6	59.3	58.0
162.5°	16.5	19.3	22.2	25.0	27.9	30.7	33.6	32.7	31.8	31.0	30.1
165°	4.0	5.3	6.6	7.9	9.3	10.6	11.9	11.2	10.6	9.9	9.2
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: P201402

CATALOG NUMBER: 8LBLELD4-9-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	950.8	951.3	951.7	952.2	952.6	954.1	955.7	957.2	958.7	960.3	961.8
5°	937.9	938.1	938.4	938.6	938.8	940.6	942.3	944.1	945.8	947.6	949.3
7.5°	926.9	926.9	926.9	926.9	926.9	928.4	930.0	931.5	933.0	934.6	936.1
10°	916.8	916.4	916.0	915.5	915.1	916.4	917.7	919.0	920.3	921.7	923.0
12.5°	916.6	915.7	914.9	914.0	913.1	913.5	914.0	914.4	914.8	915.3	915.7
15°	927.1	925.6	924.1	922.5	921.0	919.5	917.9	916.4	914.8	913.3	911.7
17.5°	949.3	946.7	944.1	941.4	938.8	934.8	930.9	926.9	923.0	919.0	915.1
20°	971.7	968.4	965.1	961.8	958.5	952.1	945.8	939.4	933.0	926.7	920.3
22.5°	994.1	990.2	986.2	982.3	978.3	970.4	962.5	954.6	946.7	938.7	930.8
25°	1017.6	1013.2	1008.8	1004.4	1000.0	990.6	981.1	971.7	962.3	952.8	943.4
27.5°	1040.2	1035.6	1031.0	1026.4	1021.8	1011.0	1000.3	989.5	978.7	968.0	957.2
30°	1060.7	1055.4	1050.1	1044.9	1039.6	1027.7	1015.9	1004.0	992.1	980.3	968.4
32.5°	1081.0	1075.1	1069.2	1063.2	1057.3	1043.9	1030.5	1017.1	1003.7	990.4	977.0
35°	1101.5	1094.9	1088.3	1081.7	1075.1	1060.4	1045.7	1031.0	1016.3	1001.5	986.8
37.5°	1121.0	1114.0	1107.0	1099.9	1092.9	1076.7	1060.4	1044.2	1027.9	1011.7	995.4
40°	1140.6	1133.1	1125.6	1118.2	1110.7	1093.1	1075.6	1058.0	1040.4	1022.9	1005.3
42.5°	1157.9	1149.5	1141.2	1132.8	1124.5	1105.4	1086.3	1067.2	1048.1	1029.0	1009.9
45°	1175.5	1166.7	1158.0	1149.2	1140.4	1119.8	1099.1	1078.5	1057.8	1037.2	1016.5
47.5°	1192.0	1182.5	1173.1	1163.6	1154.2	1132.0	1109.8	1087.7	1065.5	1043.3	1021.1
50°	1208.4	1198.3	1188.2	1178.1	1168.0	1144.1	1120.1	1096.2	1072.3	1048.3	1024.4
52.5°	1222.9	1212.2	1201.4	1190.7	1179.9	1154.4	1128.9	1103.5	1078.0	1052.5	1027.0
55°	1234.6	1223.4	1212.2	1201.0	1189.8	1162.6	1135.3	1108.1	1080.9	1053.6	1026.4
57.5°	1245.3	1233.9	1222.4	1211.0	1199.6	1170.8	1142.1	1113.3	1084.5	1055.8	1027.0
60°	1251.0	1239.2	1227.3	1215.5	1203.6	1173.5	1143.4	1113.3	1083.2	1053.2	1023.1
62.5°	1253.0	1241.2	1229.3	1217.5	1205.6	1174.4	1143.2	1112.0	1080.8	1049.7	1018.5
65°	1251.0	1239.2	1227.3	1215.5	1203.6	1171.3	1139.0	1106.8	1074.5	1042.2	1009.9
67.5°	1244.0	1231.9	1219.9	1207.8	1195.7	1163.0	1130.3	1097.5	1064.8	1032.1	999.4
70°	1234.1	1222.0	1210.0	1197.9	1185.8	1152.4	1119.0	1085.7	1052.3	1018.9	985.5
72.5°	1217.4	1205.6	1193.7	1181.9	1170.0	1136.4	1102.8	1069.2	1035.6	1002.0	968.4
75°	1194.6	1182.5	1170.5	1158.4	1146.3	1112.7	1079.1	1045.5	1011.9	978.3	944.7
77.5°	1165.2	1153.5	1141.9	1130.2	1118.6	1085.2	1051.8	1018.5	985.1	951.7	918.3
80°	1134.4	1122.6	1110.7	1098.9	1087.0	1054.1	1021.1	988.2	955.2	922.3	889.3
82.5°	1099.1	1087.7	1076.2	1064.8	1053.4	1020.9	988.4	955.9	923.4	890.9	858.4
85°	1063.5	1052.1	1040.6	1029.2	1017.8	986.0	954.1	922.3	890.5	858.6	826.8
87.5°	1024.0	1012.6	1001.1	989.7	978.3	947.3	916.4	885.4	854.4	823.5	792.5
90°	991.7	980.9	970.1	959.4	948.6	918.1	887.6	857.0	826.5	796.0	765.5
92.5°	963.1	952.6	942.1	931.5	921.0	891.6	862.1	832.7	803.3	773.8	744.4
95°	940.5	930.2	919.8	909.5	899.2	870.4	841.7	812.9	784.1	755.4	726.6
97.5°	915.1	905.2	895.3	885.4	875.5	847.4	819.3	791.2	763.1	735.0	706.9
100°	890.2	880.1	870.0	859.9	849.8	822.4	794.9	767.5	740.0	712.6	685.1
102.5°	867.9	858.4	849.0	839.5	830.1	802.6	775.2	747.7	720.3	692.8	665.4
105°	844.1	834.7	825.3	815.8	806.4	779.4	752.4	725.4	698.4	671.3	644.3
107.5°	815.4	805.7	796.0	786.4	776.7	750.8	724.9	699.0	673.1	647.1	621.2
110°	787.0	778.0	769.0	760.0	751.0	725.5	700.1	674.6	649.1	623.7	598.2



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°
112.5°	755.2	745.7	736.3	726.8	717.4	693.2	669.1	644.9	620.8	596.6	572.5
115°	722.9	714.1	705.4	696.6	687.8	663.9	639.9	616.0	592.0	568.1	544.1
117.5°	693.5	685.1	676.8	668.4	660.1	636.6	613.1	589.6	566.1	542.6	519.1
120°	657.9	649.5	641.2	632.8	624.5	602.1	579.7	557.3	534.9	512.5	490.1
122.5°	624.5	616.6	608.7	600.8	592.9	571.2	549.4	527.7	505.9	484.2	462.4
125°	588.3	581.0	573.8	566.5	559.3	538.2	517.1	496.1	475.0	453.9	432.8
127.5°	549.9	542.9	535.8	528.8	521.8	501.6	481.4	461.2	441.0	420.7	400.5
130°	509.3	502.0	494.8	487.5	480.3	461.4	442.5	423.6	404.7	385.9	367.0
132.5°	467.9	461.1	454.3	447.5	440.7	422.7	404.7	386.7	368.7	350.7	332.7
135°	426.9	421.0	415.0	409.1	403.2	386.3	369.4	352.5	335.6	318.6	301.7
137.5°	383.7	378.2	372.7	367.2	361.7	346.3	330.9	315.6	300.2	284.8	269.4
140°	342.3	337.3	332.2	327.2	322.1	308.1	294.0	280.0	265.9	251.9	237.8
142.5°	302.2	297.8	293.4	289.0	284.6	272.1	259.6	247.0	234.5	222.0	209.5
145°	264.8	260.9	256.9	253.0	249.0	237.1	225.3	213.4	201.6	189.7	177.9
147.5°	227.5	224.0	220.4	216.9	213.4	203.1	192.8	182.5	172.2	161.8	151.5
150°	192.1	189.0	186.0	182.9	179.8	170.6	161.4	152.1	142.9	133.7	124.5
152.5°	155.7	152.9	150.0	147.2	144.3	136.2	128.0	119.9	111.8	103.6	95.5
155°	121.5	119.3	117.1	114.9	112.7	105.4	98.2	90.9	83.7	76.4	69.2
157.5°	88.9	86.9	85.0	83.0	81.0	75.3	69.6	63.9	58.2	52.4	46.7
160°	56.6	55.3	54.0	52.7	51.4	47.2	43.0	38.9	34.7	30.5	26.3
162.5°	29.2	28.3	27.5	26.6	25.7	23.1	20.4	17.8	15.2	12.5	9.9
165°	8.6	7.9	7.2	6.6	5.9	5.2	4.6	3.9	3.3	2.6	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	963.3	964.9	966.4	966.8	967.3	967.7	968.2	968.6	969.1	969.5	970.0
5°	951.1	952.8	954.6	955.0	955.5	955.9	956.3	956.8	957.2	957.6	958.1
7.5°	937.6	939.2	940.7	941.6	942.5	943.3	944.2	945.1	946.0	946.8	947.7
10°	924.3	925.6	926.9	927.6	928.2	928.9	929.5	930.2	930.8	931.5	932.1
12.5°	916.1	916.6	917.0	916.8	916.6	916.4	916.2	915.9	915.7	915.5	915.3
15°	910.2	908.6	907.1	906.0	904.9	903.8	902.7	901.7	900.6	899.5	898.4
17.5°	911.1	907.2	903.2	900.6	897.9	895.3	892.7	890.0	887.4	884.8	882.1
20°	913.9	907.6	901.2	896.4	891.5	886.7	881.9	877.0	872.2	867.4	862.5
22.5°	922.9	915.0	907.1	899.2	891.3	883.4	875.5	867.6	859.7	851.8	843.9
25°	934.0	924.5	915.1	903.9	892.7	881.5	870.3	859.1	847.9	836.7	825.5
27.5°	946.4	935.7	924.9	910.2	895.5	880.8	866.1	851.3	836.6	821.9	807.2
30°	956.5	944.7	932.8	915.0	897.2	879.5	861.7	843.9	826.1	808.4	790.6
32.5°	963.6	950.2	936.8	916.4	896.0	875.5	855.1	834.7	814.3	793.8	773.4
35°	972.1	957.4	942.7	919.9	897.0	874.2	851.4	828.5	805.7	782.9	760.0
37.5°	979.2	962.9	946.7	922.1	897.5	872.9	848.3	823.7	799.1	774.5	749.9
40°	987.7	970.2	952.6	925.8	899.0	872.2	845.4	818.7	791.9	765.1	738.3
42.5°	990.8	971.7	952.6	924.5	896.4	868.3	840.2	812.0	783.9	755.8	727.7
45°	995.9	975.2	954.6	924.5	894.4	864.3	834.2	804.2	774.1	744.0	713.9
47.5°	999.0	976.8	954.6	923.0	891.4	859.7	828.1	796.5	764.9	733.2	701.6
50°	1000.5	976.5	952.6	919.2	885.8	852.5	819.1	785.7	752.3	719.0	685.6
52.5°	1001.6	976.1	950.6	915.7	880.8	845.9	811.0	776.0	741.1	706.2	671.3
55°	999.2	971.9	944.7	908.5	872.2	836.0	799.8	763.5	727.3	691.1	654.8
57.5°	998.2	969.5	940.7	902.9	865.2	827.4	789.6	751.9	714.1	676.3	638.6
60°	993.0	962.9	932.8	893.7	854.6	815.5	776.4	737.4	698.3	659.2	620.1
62.5°	987.3	956.1	924.9	884.5	844.1	803.7	763.3	722.9	682.5	642.1	601.7
65°	977.7	945.4	913.1	871.6	830.1	788.6	747.1	705.5	664.0	622.5	581.0
67.5°	966.6	933.9	901.2	858.6	816.0	773.4	730.8	688.2	645.6	603.0	560.4
70°	952.2	918.8	885.4	841.5	797.6	753.6	709.7	665.8	621.9	577.9	534.0
72.5°	934.8	901.2	867.6	823.0	778.4	733.9	689.3	644.7	600.1	555.6	511.0
75°	911.1	877.5	843.9	799.3	754.7	710.2	665.6	621.0	576.4	531.9	487.3
77.5°	885.0	851.6	818.2	773.6	729.0	684.5	639.9	595.3	550.7	506.2	461.6
80°	856.4	823.4	790.5	746.1	701.8	657.4	613.1	568.7	524.4	480.0	435.7
82.5°	825.9	793.4	760.9	717.4	673.9	630.5	587.0	543.5	500.0	456.6	413.1
85°	795.0	763.1	731.3	688.5	645.7	602.8	560.0	517.2	474.4	431.5	388.7
87.5°	761.5	730.6	699.6	657.9	616.2	574.4	532.7	491.0	449.3	407.5	365.8
90°	734.9	704.4	673.9	632.8	591.8	550.7	509.7	468.6	427.6	386.5	345.5
92.5°	715.0	685.5	656.1	615.9	575.7	535.6	495.4	455.2	415.0	374.9	334.7
95°	697.8	669.1	640.3	600.6	560.8	521.1	481.3	441.6	401.8	362.1	322.3
97.5°	678.8	650.7	622.6	583.5	544.4	505.3	466.2	427.2	388.1	349.0	309.9
100°	657.7	630.2	602.8	564.6	526.4	488.2	450.0	411.7	373.5	335.3	297.1
102.5°	637.9	610.5	583.0	545.7	508.3	471.0	433.7	396.3	359.0	321.7	284.3
105°	617.3	590.3	563.3	526.6	489.9	453.3	416.6	379.9	343.2	306.6	269.9
107.5°	595.3	569.4	543.5	507.5	471.5	435.5	399.5	363.4	327.4	291.4	255.4
110°	572.7	547.3	521.8	486.7	451.5	416.4	381.2	346.1	310.9	275.8	240.6



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	548.3	524.2	500.0	465.7	431.5	397.2	363.0	328.7	294.5	260.2	226.0
115°	520.2	496.2	472.3	439.4	406.4	373.5	340.6	307.6	274.7	241.8	208.8
117.5°	495.6	472.1	448.6	416.5	384.5	352.4	320.4	288.3	256.3	224.2	192.2
120°	467.7	445.3	422.9	392.2	361.4	330.7	300.0	269.2	238.5	207.8	177.0
122.5°	440.7	418.9	397.2	367.6	337.9	308.3	278.6	249.0	219.3	189.7	160.0
125°	411.8	390.7	369.6	341.5	313.4	285.3	257.2	229.0	200.9	172.8	144.7
127.5°	380.3	360.1	339.9	313.6	287.2	260.9	234.5	208.2	181.8	155.5	129.1
130°	348.1	329.2	310.3	285.5	260.7	235.9	211.1	186.2	161.4	136.6	111.8
132.5°	314.7	296.7	278.7	255.9	233.0	210.2	187.3	164.5	141.6	118.8	95.9
135°	284.8	267.9	251.0	229.9	208.8	187.8	166.7	145.6	124.5	103.5	82.4
137.5°	254.1	238.7	223.3	203.8	184.2	164.7	145.1	125.6	106.0	86.5	66.9
140°	223.8	209.7	195.7	177.9	160.1	142.3	124.5	106.8	89.0	71.2	53.4
142.5°	196.9	184.4	171.9	155.7	139.4	123.2	106.9	90.7	74.4	58.2	41.9
145°	166.0	154.2	142.3	128.2	114.2	100.1	86.1	72.0	58.0	43.9	29.9
147.5°	141.2	130.9	120.6	108.1	95.6	83.0	70.5	58.0	45.5	32.9	20.4
150°	115.2	106.0	96.8	86.5	76.2	65.9	55.6	45.2	34.9	24.6	14.3
152.5°	87.4	79.2	71.1	63.4	55.7	48.1	40.4	32.7	25.0	17.4	9.7
155°	61.9	54.7	47.4	42.1	36.9	31.6	26.3	21.1	15.8	10.5	5.3
157.5°	41.0	35.3	29.6	26.3	23.0	19.7	16.4	13.2	9.9	6.6	3.3
160°	22.2	18.0	13.8	12.3	10.7	9.2	7.7	6.1	4.6	3.1	1.5
162.5°	7.3	4.6	2.0	1.8	1.6	1.3	1.1	0.9	0.7	0.4	0.2
165°	1.3	0.7	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: P201402

CATALOG NUMBER: 8LBLED-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	970.4	972.8	975.2	977.6	980.0	982.5	984.9	987.3	989.7	992.1	991.9
5°	958.5	961.8	965.1	968.4	971.7	975.0	978.3	981.6	984.9	988.2	988.6
7.5°	948.6	952.1	955.6	959.2	962.7	966.2	969.7	973.3	976.8	980.3	982.1
10°	932.8	937.0	941.2	945.3	949.5	953.7	957.9	962.0	966.2	970.4	973.0
12.5°	915.1	919.7	924.3	928.9	933.5	938.2	942.8	947.4	952.0	956.6	960.5
15°	897.3	902.1	906.9	911.8	916.6	921.4	926.2	931.1	935.9	940.7	946.0
17.5°	879.5	884.3	889.2	894.0	898.8	903.7	908.5	913.3	918.2	923.0	929.8
20°	857.7	862.5	867.4	872.2	877.0	881.9	886.7	891.5	896.4	901.2	909.8
22.5°	836.0	840.4	844.8	849.2	853.6	857.9	862.3	866.7	871.1	875.5	886.0
25°	814.3	818.5	822.6	826.8	831.0	835.1	839.3	843.5	847.6	851.8	864.1
27.5°	792.5	795.8	799.1	802.4	805.7	809.0	812.3	815.6	818.9	822.2	836.9
30°	772.8	775.0	777.2	779.4	781.6	783.7	785.9	788.1	790.3	792.5	809.6
32.5°	753.0	753.7	754.3	755.0	755.6	756.3	756.9	757.6	758.2	758.9	778.9
35°	737.2	736.3	735.4	734.6	733.7	732.8	731.9	731.1	730.2	729.3	751.7
37.5°	725.3	721.3	717.4	713.4	709.5	705.5	701.6	697.6	693.7	689.7	715.4
40°	711.5	705.3	699.2	693.0	686.9	680.7	674.6	668.4	662.3	656.1	684.4
42.5°	699.6	690.6	681.6	672.6	663.6	654.6	645.6	636.6	627.6	618.6	649.6
45°	683.8	672.2	660.5	648.9	637.3	625.6	614.0	602.4	590.7	579.1	613.1
47.5°	670.0	655.9	641.9	627.8	613.8	599.7	585.7	571.6	557.6	543.5	579.7
50°	652.2	635.7	619.3	602.8	586.3	569.9	553.4	536.9	520.5	504.0	543.1
52.5°	636.4	616.9	597.3	577.8	558.2	538.7	519.1	499.6	480.0	460.5	502.7
55°	618.6	596.9	575.1	553.4	531.6	509.9	488.1	466.4	444.6	422.9	467.3
57.5°	600.8	576.9	552.9	529.0	505.1	481.1	457.2	433.3	409.3	385.4	432.0
60°	581.0	554.9	528.8	502.6	476.5	450.4	424.3	398.1	372.0	345.9	394.6
62.5°	561.3	533.2	505.1	477.0	448.9	420.7	392.6	364.5	336.4	308.3	359.2
65°	539.5	509.6	479.8	449.9	420.1	390.2	360.4	330.5	300.7	270.8	323.3
67.5°	517.8	486.2	454.6	422.9	391.3	359.7	328.1	296.4	264.8	233.2	287.2
70°	490.1	457.6	425.1	392.6	360.1	327.6	295.1	262.6	230.1	197.6	252.7
72.5°	466.4	432.6	398.8	365.0	331.2	297.3	263.5	229.7	195.9	162.1	218.1
75°	442.7	407.8	372.9	338.0	303.1	268.1	233.2	198.3	163.4	128.5	185.2
77.5°	417.0	381.4	345.8	310.3	274.7	239.1	203.5	168.0	132.4	96.8	153.5
80°	391.3	355.3	319.3	283.3	247.3	211.2	175.2	139.2	103.2	67.2	123.6
82.5°	369.6	333.4	297.1	260.9	224.7	188.4	152.2	116.0	79.7	43.5	98.8
85°	345.9	309.9	273.9	237.8	201.8	165.8	129.8	93.7	57.7	21.7	75.9
87.5°	324.1	289.0	253.8	218.7	183.6	148.4	113.3	78.2	43.0	7.9	59.9
90°	304.4	270.6	236.8	202.9	169.1	135.3	101.5	67.6	33.8	0.0	50.3
92.5°	294.5	261.8	229.1	196.3	163.6	130.9	98.2	65.4	32.7	0.0	48.1
95°	282.6	251.2	219.8	188.4	157.0	125.6	94.2	62.8	31.4	0.0	45.7
97.5°	270.8	240.7	210.6	180.5	150.4	120.4	90.3	60.2	30.1	0.0	43.3
100°	258.9	230.1	201.4	172.6	143.8	115.1	86.3	57.5	28.8	0.0	40.6
102.5°	247.0	219.6	192.1	164.7	137.2	109.8	82.3	54.9	27.4	0.0	38.2
105°	233.2	207.3	181.4	155.5	129.6	103.6	77.7	51.8	25.9	0.0	35.8
107.5°	219.4	195.0	170.6	146.3	121.9	97.5	73.1	48.8	24.4	0.0	33.4
110°	205.5	182.7	159.8	137.0	114.2	91.3	68.5	45.7	22.8	0.0	30.7



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	191.7	170.6	149.5	128.5	107.4	86.3	65.2	44.2	23.1	2.0	30.3
115°	175.9	156.4	136.8	117.3	97.7	78.2	58.6	39.1	19.5	0.0	25.9
117.5°	160.1	142.5	125.0	107.4	89.8	72.3	54.7	37.1	19.6	2.0	25.3
120°	146.3	130.3	114.2	98.2	82.2	66.1	50.1	34.1	18.0	2.0	22.6
122.5°	130.4	116.1	101.9	87.6	73.3	59.1	44.8	30.5	16.3	2.0	20.0
125°	116.6	103.9	91.1	78.4	65.7	52.9	40.2	27.5	14.7	2.0	17.6
127.5°	102.8	91.6	80.4	69.2	58.0	46.8	35.6	24.4	13.2	2.0	15.0
130°	87.0	77.6	68.1	58.7	49.2	39.8	30.3	20.9	11.4	2.0	12.1
132.5°	73.1	65.2	57.3	49.4	41.5	33.6	25.7	17.8	9.9	2.0	9.9
135°	61.3	54.7	48.1	41.5	34.9	28.4	21.8	15.2	8.6	2.0	8.1
137.5°	47.4	42.4	37.3	32.3	27.2	22.2	17.1	12.1	7.0	2.0	6.6
140°	35.6	31.9	28.1	24.4	20.7	16.9	13.2	9.5	5.7	2.0	5.3
142.5°	25.7	23.1	20.4	17.8	15.2	12.5	9.9	7.3	4.6	2.0	4.2
145°	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5	2.0	3.5
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°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	3.1
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9
155°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.4
157.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
160°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2
162.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.0
165°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLELD4-9-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	991.7	991.5	991.3	991.0	990.8	990.6	990.4	990.2	990.6	991.1	991.5
5°	989.1	989.5	989.9	990.4	990.8	991.2	991.7	992.1	993.9	995.6	997.4
7.5°	983.8	985.6	987.3	989.1	990.8	992.6	994.3	996.1	999.0	1001.8	1004.7
10°	975.7	978.3	980.9	983.6	986.2	988.8	991.5	994.1	998.5	1002.9	1007.3
12.5°	964.5	968.4	972.4	976.3	980.3	984.2	988.2	992.1	998.5	1004.8	1011.2
15°	951.3	956.5	961.8	967.1	972.4	977.6	982.9	988.2	996.8	1005.3	1013.9
17.5°	936.6	943.4	950.2	957.0	963.8	970.6	977.4	984.2	995.8	1007.5	1019.1
20°	918.3	926.9	935.5	944.0	952.6	961.2	969.7	978.3	993.2	1008.2	1023.1
22.5°	896.6	907.1	917.7	928.2	938.8	949.3	959.9	970.4	988.8	1007.3	1025.7
25°	876.4	888.7	901.0	913.3	925.6	937.9	950.2	962.5	984.2	1006.0	1027.7
27.5°	851.6	866.3	881.0	895.8	910.5	925.2	939.9	954.6	979.6	1004.7	1029.7
30°	826.8	843.9	861.0	878.2	895.3	912.4	929.6	946.7	974.6	1002.5	1030.4
32.5°	798.9	818.9	838.9	858.8	878.8	898.8	918.8	938.8	969.3	999.8	1030.4
35°	774.1	796.5	818.9	841.3	863.7	886.1	908.5	930.9	964.1	997.2	1030.4
37.5°	741.1	766.8	792.5	818.2	843.9	869.6	895.3	921.0	956.8	992.6	1028.4
40°	712.8	741.1	769.4	797.8	826.1	854.4	882.8	911.1	949.7	988.4	1027.0
42.5°	680.5	711.5	742.5	773.4	804.4	835.4	866.3	897.3	939.0	980.7	1022.5
45°	647.2	681.2	715.2	749.3	783.3	817.3	851.4	885.4	930.0	974.6	1019.1
47.5°	616.0	652.2	688.4	724.7	760.9	797.1	833.4	869.6	917.0	964.5	1011.9
50°	582.2	621.3	660.4	699.4	738.5	777.6	816.7	855.8	905.9	955.9	1006.0
52.5°	544.8	587.0	629.1	671.3	713.4	755.6	797.7	839.9	892.8	945.8	998.7
55°	511.6	556.0	600.4	644.7	689.1	733.5	777.8	822.2	878.0	933.8	989.5
57.5°	478.5	525.1	571.6	618.2	664.7	711.3	757.8	804.4	863.2	922.1	980.9
60°	443.4	492.1	540.9	589.6	638.4	687.1	735.9	784.6	846.7	908.9	971.0
62.5°	410.2	461.1	512.1	563.0	614.0	664.9	715.9	766.8	831.8	896.8	961.8
65°	375.8	428.2	480.7	533.2	585.7	638.1	690.6	743.1	811.4	879.7	948.0
67.5°	341.2	395.3	449.3	503.3	557.3	611.4	665.4	719.4	790.5	861.7	932.8
70°	307.8	363.0	418.1	473.2	528.3	583.5	638.6	693.7	767.0	840.4	913.7
72.5°	274.1	330.1	386.1	442.0	498.0	554.0	610.0	666.0	740.7	815.3	890.0
75°	241.8	298.5	355.1	411.8	468.4	525.1	581.7	638.4	713.1	787.7	862.4
77.5°	210.1	266.8	323.4	380.1	436.7	493.4	550.0	606.7	680.3	753.8	827.4
80°	180.1	236.5	292.9	349.4	405.8	462.2	518.7	575.1	646.9	718.7	790.5
82.5°	154.2	209.5	264.8	320.2	375.5	430.8	486.2	541.5	611.6	681.6	751.7
85°	130.2	184.4	238.7	292.9	347.2	401.4	455.7	509.9	577.5	645.2	712.8
87.5°	112.0	164.0	216.1	268.1	320.2	372.2	424.3	476.3	542.2	608.1	673.9
90°	100.6	150.9	201.2	251.4	301.7	352.0	402.3	452.6	516.3	580.0	643.6
92.5°	96.2	144.3	192.4	240.4	288.5	336.6	384.7	432.8	494.7	556.7	618.6
95°	91.4	137.0	182.7	228.4	274.1	319.7	365.4	411.1	470.8	530.5	590.3
97.5°	86.5	129.8	173.0	216.3	259.5	302.8	346.0	389.3	447.7	506.1	564.6
100°	81.2	121.9	162.5	203.1	243.7	284.4	325.0	365.6	422.7	479.8	536.9
102.5°	76.4	114.6	152.8	191.1	229.3	267.5	305.7	343.9	399.5	455.0	510.6
105°	71.6	107.4	143.2	178.9	214.7	250.5	286.3	322.1	376.1	430.1	484.2
107.5°	66.8	100.1	133.5	166.9	200.3	233.6	267.0	300.4	352.9	405.4	457.9
110°	61.5	92.2	123.0	153.7	184.5	215.2	246.0	276.7	327.9	379.0	430.2



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	58.6	87.0	115.3	143.6	171.9	200.3	228.6	256.9	305.7	354.4	403.2
115°	51.8	77.7	103.6	129.6	155.5	181.4	207.3	233.2	280.6	328.1	375.5
117.5°	48.6	71.8	95.1	118.4	141.7	164.9	188.2	211.5	257.0	302.4	347.9
120°	43.3	63.9	84.6	105.2	125.9	146.5	167.2	187.8	231.7	275.6	319.5
122.5°	38.0	56.0	74.0	92.0	110.0	128.0	146.0	164.0	205.5	247.0	288.5
125°	33.2	48.8	64.4	79.9	95.5	111.1	126.7	142.3	181.8	221.3	260.9
127.5°	27.9	40.9	53.8	66.8	79.7	92.7	105.6	118.6	155.3	191.9	228.6
130°	22.2	32.3	42.4	52.5	62.6	72.7	82.8	92.9	126.1	159.2	192.4
132.5°	17.8	25.7	33.6	41.5	49.4	57.3	65.2	73.1	102.7	132.4	162.0
135°	14.3	20.4	26.6	32.7	38.9	45.0	51.2	57.3	83.9	110.5	137.0
137.5°	11.2	15.8	20.4	25.1	29.7	34.3	38.9	43.5	66.1	88.7	111.3
140°	8.6	11.9	15.2	18.4	21.7	25.0	28.3	31.6	50.7	69.8	88.9
142.5°	6.4	8.6	10.8	12.9	15.1	17.3	19.5	21.7	38.2	54.7	71.1
145°	5.1	6.6	8.1	9.7	11.2	12.7	14.3	15.8	29.0	42.2	55.3
147.5°	4.6	5.9	7.2	8.6	9.9	11.2	12.5	13.8	23.7	33.6	43.5
150°	4.2	5.3	6.4	7.5	8.6	9.7	10.8	11.9	19.1	26.4	33.6
152.5°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	14.7	19.6	24.4
155°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	9.2	12.5	15.8
157.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	6.0	7.9	9.9
160°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	5.1	6.2	7.3
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLELD4-9-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	991.9	992.4	992.8	993.2	993.7	994.1	994.3	994.5	994.8	995.0	995.2
5°	999.1	1000.9	1002.6	1004.4	1006.1	1007.9	1008.6	1009.2	1009.9	1010.6	1011.2
7.5°	1007.5	1010.4	1013.2	1016.1	1018.9	1021.8	1023.6	1025.3	1027.1	1028.8	1030.6
10°	1011.7	1016.0	1020.4	1024.8	1029.2	1033.6	1036.9	1040.2	1043.5	1046.8	1050.1
12.5°	1017.6	1023.9	1030.3	1036.7	1043.0	1049.4	1054.7	1060.0	1065.2	1070.5	1075.8
15°	1022.5	1031.0	1039.6	1048.2	1056.7	1065.3	1073.4	1081.5	1089.7	1097.8	1105.9
17.5°	1030.8	1042.4	1054.1	1065.7	1077.4	1089.0	1099.3	1109.6	1120.0	1130.3	1140.6
20°	1038.0	1053.0	1067.9	1082.8	1097.8	1112.7	1124.8	1136.9	1148.9	1161.0	1173.1
22.5°	1044.2	1062.6	1081.1	1099.5	1118.0	1136.4	1150.2	1164.1	1177.9	1191.7	1205.6
25°	1049.4	1071.2	1092.9	1114.6	1136.4	1158.1	1173.7	1189.3	1204.9	1220.5	1236.1
27.5°	1054.7	1079.8	1104.8	1129.8	1154.9	1179.9	1197.2	1214.6	1231.9	1249.3	1266.6
30°	1058.3	1086.1	1114.0	1141.9	1169.8	1197.7	1217.0	1236.3	1255.7	1275.0	1294.3
32.5°	1060.9	1091.4	1121.9	1152.5	1183.0	1213.5	1235.0	1256.5	1278.1	1299.6	1321.1
35°	1063.5	1096.7	1129.8	1163.0	1196.1	1229.3	1253.0	1276.7	1300.4	1324.1	1347.9
37.5°	1064.2	1099.9	1135.7	1171.5	1207.3	1243.1	1269.2	1295.4	1321.5	1347.6	1373.8
40°	1065.7	1104.3	1143.0	1181.6	1220.3	1258.9	1287.2	1315.6	1343.9	1372.2	1400.6
42.5°	1064.2	1105.9	1147.6	1189.4	1231.1	1272.8	1303.8	1334.7	1365.7	1396.6	1427.6
45°	1063.7	1108.3	1152.9	1197.4	1242.0	1286.6	1320.4	1354.2	1388.1	1421.9	1455.7
47.5°	1059.3	1106.8	1154.2	1201.6	1249.1	1296.5	1333.6	1370.7	1407.8	1444.9	1482.1
50°	1056.1	1106.1	1156.2	1206.3	1256.3	1306.4	1347.0	1387.6	1428.3	1468.9	1509.5
52.5°	1051.6	1104.6	1157.5	1210.4	1263.4	1316.3	1360.4	1404.6	1448.7	1492.8	1537.0
55°	1045.3	1101.1	1156.9	1212.6	1268.4	1324.2	1372.1	1419.9	1467.8	1515.7	1563.5
57.5°	1039.8	1098.6	1157.5	1216.3	1275.2	1334.0	1385.0	1435.9	1486.9	1537.8	1588.8
60°	1033.2	1095.3	1157.5	1219.6	1281.8	1343.9	1398.1	1452.4	1506.6	1560.9	1615.1
62.5°	1026.8	1091.8	1156.8	1221.8	1286.8	1351.8	1408.2	1464.7	1521.1	1577.5	1634.0
65°	1016.3	1084.6	1152.9	1221.2	1289.5	1357.8	1416.4	1475.0	1533.7	1592.3	1650.9
67.5°	1004.0	1075.1	1146.3	1217.4	1288.6	1359.7	1419.7	1479.6	1539.6	1599.5	1659.5
70°	987.1	1060.4	1133.8	1207.1	1280.5	1353.8	1414.6	1475.5	1536.3	1597.1	1658.0
72.5°	964.7	1039.3	1114.0	1188.7	1263.3	1338.0	1398.8	1459.6	1520.5	1581.3	1642.1
75°	937.0	1011.7	1086.3	1161.0	1235.6	1310.3	1370.5	1430.6	1490.8	1551.0	1611.1
77.5°	901.0	974.5	1048.1	1121.7	1195.2	1268.8	1327.9	1387.0	1446.0	1505.1	1564.2
80°	862.3	934.2	1006.0	1077.8	1149.6	1221.4	1278.7	1336.0	1393.3	1450.6	1508.0
82.5°	821.7	891.8	961.8	1031.9	1101.9	1172.0	1226.9	1281.8	1336.7	1391.6	1446.5
85°	780.4	848.1	915.7	983.3	1051.0	1118.6	1171.1	1223.6	1276.1	1328.6	1381.0
87.5°	739.8	805.7	871.6	937.4	1003.3	1069.2	1119.9	1170.6	1221.4	1272.1	1322.8
90°	707.3	771.0	834.7	898.3	962.0	1025.7	1074.2	1122.8	1171.3	1219.8	1268.4
92.5°	680.5	742.5	804.4	866.3	928.3	990.2	1036.3	1082.4	1128.5	1174.6	1220.8
95°	650.0	709.7	769.4	829.2	888.9	948.6	993.8	1039.1	1084.3	1129.6	1174.8
97.5°	623.0	681.4	739.8	798.3	856.7	915.1	958.4	1001.6	1044.9	1088.1	1131.4
100°	594.0	651.1	708.2	765.3	822.4	879.5	921.7	963.8	1006.0	1048.1	1090.3
102.5°	566.1	621.7	677.2	732.8	788.3	843.9	885.0	926.0	967.1	1008.2	1049.2
105°	538.2	592.2	646.2	700.3	754.3	808.3	848.5	888.7	928.9	969.1	1009.2
107.5°	510.4	562.8	615.3	667.8	720.3	772.8	811.9	851.0	890.0	929.1	968.2
110°	481.4	532.5	583.7	634.9	686.0	737.2	774.7	812.3	849.8	887.4	924.9



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	451.9	500.7	549.4	598.2	646.9	695.7	732.6	769.5	806.4	843.3	880.1
115°	422.9	470.4	517.8	565.2	612.7	660.1	695.2	730.4	765.5	800.6	835.8
117.5°	393.3	438.8	484.2	529.7	575.1	620.6	654.4	688.2	722.0	755.8	789.7
120°	363.4	407.4	451.3	495.2	539.1	583.0	615.3	647.6	679.8	712.1	744.4
122.5°	330.0	371.6	413.1	454.6	496.1	537.6	569.0	600.4	631.8	663.2	694.6
125°	300.4	339.9	379.4	419.0	458.5	498.0	527.6	557.3	586.9	616.6	646.2
127.5°	265.3	301.9	338.6	375.3	411.9	448.6	477.6	506.6	535.6	564.6	593.5
130°	225.5	258.7	291.8	325.0	358.1	391.3	420.3	449.3	478.3	507.3	536.2
132.5°	191.7	221.3	251.0	280.6	310.3	339.9	368.0	396.1	424.2	452.3	480.5
135°	163.6	190.2	216.8	243.3	269.9	296.5	323.5	350.5	377.5	404.5	431.5
137.5°	133.9	156.6	179.2	201.8	224.4	247.0	272.5	298.0	323.4	348.9	374.4
140°	108.0	127.2	146.3	165.4	184.5	203.6	226.9	250.2	273.4	296.7	320.0
142.5°	87.6	104.1	120.6	137.0	153.5	170.0	190.0	210.0	229.9	249.9	269.9
145°	68.5	81.7	94.9	108.0	121.2	134.4	151.5	168.6	185.8	202.9	220.0
147.5°	53.4	63.2	73.1	83.0	92.9	102.8	117.3	131.8	146.3	160.8	175.2
150°	40.9	48.1	55.4	62.6	69.9	77.1	89.0	100.8	112.7	124.5	136.4
152.5°	29.2	34.1	38.9	43.7	48.6	53.4	62.6	71.8	81.1	90.3	99.5
155°	19.1	22.4	25.7	29.0	32.3	35.6	42.4	49.2	56.0	62.8	69.6
157.5°	11.9	13.8	15.8	17.8	19.7	21.7	26.5	31.4	36.2	41.0	45.9
160°	8.4	9.4	10.5	11.6	12.7	13.8	16.7	19.5	22.4	25.2	28.1
162.5°	4.6	5.3	5.9	6.6	7.2	7.9	9.0	10.1	11.2	12.3	13.4
165°	2.9	3.1	3.3	3.6	3.8	4.0	4.4	4.9	5.3	5.7	6.2
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: P201402

CATALOG NUMBER: 8LBLEDD4-9-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°	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3	978.3
2.5°	995.4	995.7	995.9	996.1	995.2	994.3	993.5	992.6	991.7	990.8	990.0
5°	1011.9	1012.6	1013.2	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9
7.5°	1032.3	1034.1	1035.8	1037.6	1038.0	1038.5	1038.9	1039.3	1039.8	1040.2	1040.6
10°	1053.4	1056.7	1060.0	1063.3	1064.0	1064.6	1065.3	1065.9	1066.6	1067.2	1067.9
12.5°	1081.1	1086.3	1091.6	1096.9	1098.4	1100.0	1101.5	1103.0	1104.6	1106.1	1107.6
15°	1114.0	1122.2	1130.3	1138.4	1141.3	1144.1	1147.0	1149.8	1152.7	1155.5	1158.4
17.5°	1150.9	1161.3	1171.6	1181.9	1184.8	1187.6	1190.5	1193.3	1196.2	1199.0	1201.9
20°	1185.2	1197.2	1209.3	1221.4	1224.9	1228.4	1231.9	1235.4	1239.0	1242.5	1246.0
22.5°	1219.4	1233.2	1247.1	1260.9	1265.1	1269.3	1273.4	1277.6	1281.8	1286.0	1290.1
25°	1251.7	1267.3	1282.9	1298.5	1303.1	1307.7	1312.3	1316.9	1321.6	1326.2	1330.8
27.5°	1284.0	1301.3	1318.7	1336.0	1341.5	1347.0	1352.5	1358.0	1363.4	1368.9	1374.4
30°	1313.6	1333.0	1352.3	1371.6	1378.2	1384.8	1391.4	1398.0	1404.5	1411.1	1417.7
32.5°	1342.6	1364.2	1385.7	1407.2	1414.9	1422.6	1430.2	1437.9	1445.6	1453.3	1460.9
35°	1371.6	1395.3	1419.0	1442.7	1451.5	1460.3	1469.1	1477.9	1486.6	1495.4	1504.2
37.5°	1399.9	1426.0	1452.2	1478.3	1488.2	1498.1	1507.9	1517.8	1527.7	1537.6	1547.4
40°	1428.9	1457.2	1485.6	1513.9	1525.1	1536.3	1547.5	1558.7	1569.9	1581.1	1592.3
42.5°	1458.5	1489.5	1520.4	1551.4	1563.9	1576.4	1589.0	1601.5	1614.0	1626.5	1639.1
45°	1489.5	1523.4	1557.2	1591.0	1604.8	1618.7	1632.5	1646.3	1660.2	1674.0	1687.8
47.5°	1519.2	1556.3	1593.4	1630.5	1645.9	1661.2	1676.6	1692.0	1707.3	1722.7	1738.1
50°	1550.1	1590.8	1631.4	1672.0	1688.9	1705.8	1722.7	1739.6	1756.6	1773.5	1790.4
52.5°	1581.1	1625.2	1669.4	1713.5	1732.2	1750.8	1769.5	1788.2	1806.8	1825.5	1844.2
55°	1611.4	1659.3	1707.1	1755.0	1774.8	1794.5	1814.3	1834.1	1853.8	1873.6	1893.4
57.5°	1639.7	1690.7	1741.6	1792.6	1813.7	1834.8	1855.8	1876.9	1898.0	1919.1	1940.1
60°	1669.4	1723.6	1777.9	1832.1	1853.6	1875.1	1896.7	1918.2	1939.7	1961.2	1982.8
62.5°	1690.4	1746.8	1803.3	1859.7	1882.1	1904.5	1926.9	1949.3	1971.7	1994.1	2016.5
65°	1709.5	1768.2	1826.8	1885.4	1908.0	1930.6	1953.3	1975.9	1998.5	2021.1	2043.8
67.5°	1719.4	1779.4	1839.3	1899.3	1922.1	1945.0	1967.8	1990.6	2013.5	2036.3	2059.1
70°	1718.8	1779.6	1840.5	1901.3	1923.7	1946.1	1968.5	1990.9	2013.2	2035.6	2058.0
72.5°	1702.9	1763.8	1824.6	1885.4	1907.4	1929.3	1951.3	1973.3	1995.2	2017.2	2039.2
75°	1671.3	1731.5	1791.6	1851.8	1872.9	1894.0	1915.1	1936.2	1957.2	1978.3	1999.4
77.5°	1623.3	1682.3	1741.4	1800.5	1821.1	1841.8	1862.4	1883.0	1903.7	1924.3	1944.9
80°	1565.3	1622.6	1679.9	1737.2	1757.0	1776.7	1796.5	1816.3	1836.0	1855.8	1875.6
82.5°	1501.4	1556.3	1611.2	1666.1	1685.4	1704.7	1724.1	1743.4	1762.7	1782.0	1801.4
85°	1433.5	1486.0	1538.5	1591.0	1610.5	1630.1	1649.6	1669.2	1688.7	1708.3	1727.8
87.5°	1373.5	1424.3	1475.0	1525.7	1544.2	1562.6	1581.1	1599.5	1618.0	1636.4	1654.9
90°	1316.9	1365.4	1414.0	1462.5	1480.3	1498.1	1515.9	1533.7	1551.4	1569.2	1587.0
92.5°	1266.9	1313.0	1359.1	1405.2	1422.3	1439.4	1456.6	1473.7	1490.8	1507.9	1525.1
95°	1220.1	1265.3	1310.6	1355.8	1371.8	1387.9	1403.9	1419.9	1436.0	1452.0	1468.0
97.5°	1174.6	1217.9	1261.1	1304.4	1320.0	1335.6	1351.2	1366.8	1382.3	1397.9	1413.5
100°	1132.4	1174.6	1216.7	1258.9	1273.8	1288.8	1303.7	1318.6	1333.6	1348.5	1363.4
102.5°	1090.3	1131.4	1172.4	1213.5	1228.0	1242.5	1257.0	1271.5	1285.9	1300.4	1314.9
105°	1049.4	1089.6	1129.8	1170.0	1183.8	1197.7	1211.5	1225.3	1239.2	1253.0	1266.8
107.5°	1007.3	1046.3	1085.4	1124.5	1137.9	1151.3	1164.7	1178.1	1191.5	1204.9	1218.3
110°	962.5	1000.0	1037.6	1075.1	1088.3	1101.5	1114.6	1127.8	1141.0	1154.2	1167.3



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-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°	917.0	953.9	990.8	1027.7	1040.2	1052.7	1065.3	1077.8	1090.3	1102.8	1115.4
115°	870.9	906.0	941.2	976.3	988.6	1000.9	1013.2	1025.5	1037.8	1050.1	1062.4
117.5°	823.5	857.3	891.1	924.9	936.8	948.6	960.5	972.4	984.2	996.1	1008.0
120°	776.7	808.9	841.2	873.5	884.9	896.3	907.8	919.2	930.6	942.0	953.5
122.5°	726.0	757.4	788.8	820.2	831.8	843.5	855.1	866.7	878.4	890.0	901.6
125°	675.9	705.5	735.2	764.8	775.6	786.3	797.1	807.9	818.6	829.4	840.2
127.5°	622.5	651.5	680.5	709.5	720.5	731.5	742.4	753.4	764.4	775.4	786.3
130°	565.2	594.2	623.2	652.2	663.0	673.7	684.5	695.2	706.0	716.7	727.5
132.5°	508.6	536.7	564.8	592.9	603.2	613.5	623.9	634.2	644.5	654.8	665.2
135°	458.5	485.5	512.5	539.5	548.7	558.0	567.2	576.4	585.7	594.9	604.1
137.5°	399.9	425.3	450.8	476.3	486.0	495.6	505.3	515.0	524.6	534.3	544.0
140°	343.3	366.5	389.8	413.1	423.2	433.3	443.4	453.5	463.6	473.7	483.8
142.5°	289.9	309.8	329.8	349.8	360.3	370.9	381.4	392.0	402.5	413.1	423.6
145°	237.1	254.3	271.4	288.5	299.5	310.5	321.5	332.5	343.4	354.4	365.4
147.5°	189.7	204.2	218.7	233.2	244.0	254.7	265.5	276.3	287.0	297.8	308.6
150°	148.2	160.1	171.9	183.8	194.1	204.4	214.8	225.1	235.4	245.7	256.1
152.5°	108.7	118.0	127.2	136.4	146.1	155.7	165.4	175.0	184.7	194.3	204.0
155°	76.4	83.2	90.0	96.8	105.4	113.9	122.5	131.1	139.6	148.2	156.8
157.5°	50.7	55.5	60.4	65.2	72.2	79.3	86.3	93.3	100.4	107.4	114.4
160°	30.9	33.8	36.6	39.5	44.6	49.6	54.7	59.7	64.8	69.8	74.9
162.5°	14.5	15.6	16.7	17.8	21.5	25.3	29.0	32.7	36.5	40.2	43.9
165°	6.6	7.0	7.5	7.9	9.9	11.9	13.8	15.8	17.8	19.8	21.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	978.3	978.3
2.5°	989.1	988.2
5°	1013.9	1013.9
7.5°	1041.1	1041.5
10°	1068.5	1069.2
12.5°	1109.2	1110.7
15°	1161.2	1164.1
17.5°	1204.7	1207.6
20°	1249.5	1253.0
22.5°	1294.3	1298.5
25°	1335.4	1340.0
27.5°	1379.9	1385.4
30°	1424.3	1430.9
32.5°	1468.6	1476.3
35°	1513.0	1521.8
37.5°	1557.3	1567.2
40°	1603.5	1614.7
42.5°	1651.6	1664.1
45°	1701.7	1715.5
47.5°	1753.4	1768.8
50°	1807.3	1824.2
52.5°	1862.8	1881.5
55°	1913.1	1932.9
57.5°	1961.2	1982.3
60°	2004.3	2025.8
62.5°	2038.9	2061.3
65°	2066.4	2089.0
67.5°	2082.0	2104.8
70°	2080.4	2102.8
72.5°	2061.1	2083.1
75°	2020.5	2041.6
77.5°	1965.6	1986.2
80°	1895.3	1915.1
82.5°	1820.7	1840.0
85°	1747.4	1766.9
87.5°	1673.3	1691.8
90°	1604.8	1622.6
92.5°	1542.2	1559.3
95°	1484.1	1500.1
97.5°	1429.1	1444.7
100°	1378.4	1393.3
102.5°	1329.4	1343.9
105°	1280.7	1294.5
107.5°	1231.7	1245.1
110°	1180.5	1193.7



TEST NUMBER: P201402

CATALOG NUMBER: 8LBLED-LD4-9-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1127.9	1140.4
115°	1074.7	1087.0
117.5°	1019.8	1031.7
120°	964.9	976.3
122.5°	913.3	924.9
125°	850.9	861.7
127.5°	797.3	808.3
130°	738.2	749.0
132.5°	675.5	685.8
135°	613.4	622.6
137.5°	553.6	563.3
140°	493.9	504.0
142.5°	434.2	444.7
145°	376.4	387.4
147.5°	319.3	330.1
150°	266.4	276.7
152.5°	213.6	223.3
155°	165.3	173.9
157.5°	121.5	128.5
160°	79.9	85.0
162.5°	47.7	51.4
165°	23.7	25.7
167.5°	0.0	0.0
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)