

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: P201368

Luminaire Tested: **4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28231)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U
Description: 4 ft. Low Bay Linear, 10000 lm, Wht Asym lens, 5K
Light Source: (308) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
OT50W01000CC, OT50W0760CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10390.1 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

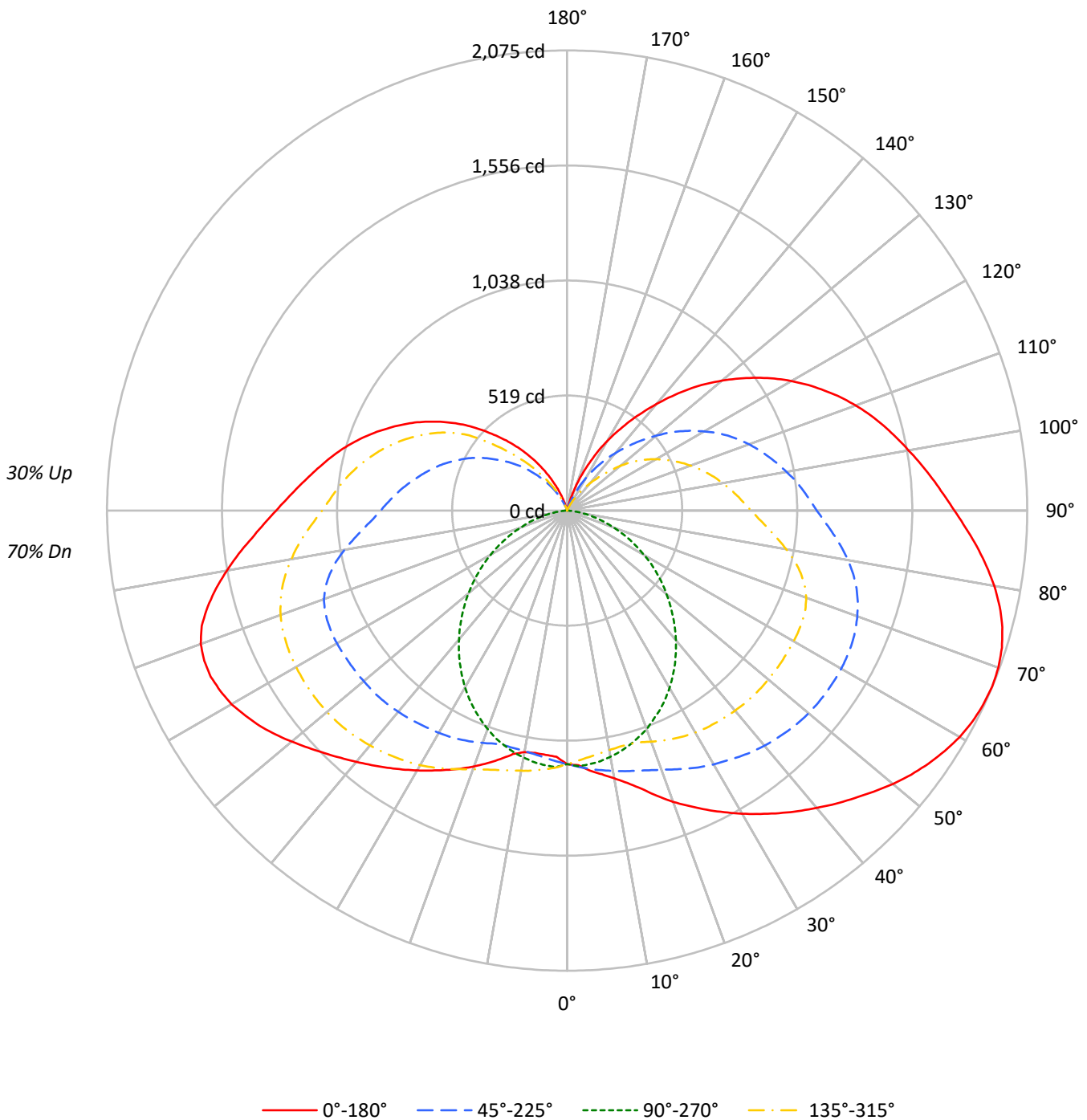
Input Watts (W): 82.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	49
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18421	18421	18421	18421
5°	17160	18491	16126	18557
10°	16442	18281	14833	18331
15°	16243	17985	14507	18036
20°	16491	17659	14484	17640
25°	16740	17201	14511	17164
30°	17080	16675	14642	16637
35°	17502	16074	14872	15996
40°	18002	15369	15212	15284
45°	18608	14617	15697	14529
50°	19355	13812	16356	13715
55°	20110	12929	17114	12793
60°	20857	11811	17833	11779
65°	21504	10661	18417	10589
70°	22048	9201	18735	9115
75°	22395	7503	18498	7560
80°	22506	5310	17933	5453
85°	22503	2540	17315	2899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.0
10°-20°	328.3	3.2
20°-30°	552.6	5.3
30°-40°	767.6	7.4
40°-50°	960.7	9.2
50°-60°	1117.9	10.8
60°-70°	1212.2	11.7
70°-80°	1193.3	11.5
80°-90°	1056.0	10.2
90°-100°	909.9	8.8
100°-110°	765.5	7.4
110°-120°	598.4	5.8
120°-130°	419.1	4.0
130°-140°	247.6	2.4
140°-150°	114.4	1.1
150°-160°	34.4	0.3
160°-170°	3.2	0.0
170°-180°	0.0	0.0
0°-30°	989.9	9.5
0°-40°	1757.5	16.9
0°-60°	3836.2	36.9
0°-90°	7297.6	70.2
90°-120°	2273.8	21.9
90°-150°	3054.9	29.4
90°-180°	3092.0	29.8
0°-180°	10390.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1143	1143	1143	1143	1143	
5°	1176	1148	1106	1152	1176	114
15°	1299	1093	1160	1096	1299	372
25°	1488	991	1290	989	1488	691
35°	1666	847	1415	843	1666	1048
45°	1834	675	1547	671	1834	1422
55°	1989	494	1693	489	1989	1783
65°	2070	311	1773	309	2070	2051
75°	2032	144	1678	145	2032	2141
85°	1854	22	1427	25	1854	1535
90°	1746	0	1312	1	1746	958
95°	1653	0	1217	1	1653	1332
105°	1478	0	1056	1	1478	1563
115°	1281	0	883	1	1281	1271
125°	1044	0	698	1	1044	938
135°	774	0	495	2	774	601
145°	490	0	305	2	490	312
155°	237	0	129	2	237	114
165°	39	0	9	2	39	15
175°	0	0	0	2	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1149.4	1149.5	1149.6	1149.8	1149.9	1150.0	1150.1	1150.3	1150.4	1150.5	1151.2
5°	1176.5	1175.6	1174.7	1173.7	1172.8	1171.9	1171.0	1170.0	1169.1	1168.2	1168.3
7.5°	1199.5	1198.3	1197.2	1196.0	1194.9	1193.7	1192.6	1191.4	1190.3	1189.1	1188.2
10°	1225.6	1223.5	1221.4	1219.3	1217.2	1215.2	1213.1	1211.0	1208.9	1206.8	1205.2
12.5°	1257.9	1255.1	1252.3	1249.6	1246.8	1244.0	1241.2	1238.5	1235.7	1232.9	1229.7
15°	1298.6	1295.1	1291.6	1288.2	1284.7	1281.2	1277.7	1274.3	1270.8	1267.3	1261.4
17.5°	1348.6	1344.0	1339.3	1334.7	1330.1	1325.4	1320.8	1316.2	1311.5	1306.9	1298.1
20°	1397.7	1391.9	1386.1	1380.3	1374.5	1368.7	1362.9	1357.1	1351.3	1345.5	1334.1
22.5°	1442.5	1436.0	1429.5	1423.0	1416.5	1410.1	1403.6	1397.1	1390.6	1384.1	1370.7
25°	1488.4	1481.2	1474.0	1466.8	1459.6	1452.5	1445.3	1438.1	1430.9	1423.7	1408.2
27.5°	1533.3	1525.4	1517.5	1509.6	1501.7	1493.9	1486.0	1478.1	1470.2	1462.3	1444.7
30°	1578.1	1569.3	1560.5	1551.7	1542.9	1534.0	1525.2	1516.4	1507.6	1498.8	1479.1
32.5°	1621.9	1612.3	1602.7	1593.0	1583.4	1573.8	1564.2	1554.5	1544.9	1535.3	1513.3
35°	1665.7	1655.5	1645.3	1635.1	1624.9	1614.7	1604.5	1594.3	1584.1	1573.9	1549.6
37.5°	1708.5	1697.3	1686.0	1674.8	1663.5	1652.3	1641.0	1629.8	1618.5	1607.3	1581.0
40°	1750.2	1738.0	1725.9	1713.7	1701.5	1689.4	1677.2	1665.0	1652.9	1640.7	1612.2
42.5°	1793.0	1779.9	1766.8	1753.7	1740.6	1727.5	1714.4	1701.3	1688.2	1675.1	1644.0
45°	1833.6	1819.7	1805.8	1791.9	1778.0	1764.1	1750.2	1736.3	1722.4	1708.5	1674.9
47.5°	1875.4	1860.4	1845.5	1830.5	1815.6	1800.6	1785.7	1770.7	1755.8	1740.8	1704.6
50°	1918.1	1901.8	1885.4	1869.1	1852.8	1836.4	1820.1	1803.8	1787.4	1771.1	1732.3
52.5°	1955.7	1938.4	1921.2	1903.9	1886.6	1869.4	1852.1	1834.8	1817.6	1800.3	1758.7
55°	1989.1	1971.0	1952.9	1934.8	1916.7	1898.7	1880.6	1862.5	1844.4	1826.3	1781.9
57.5°	2018.3	1999.6	1981.0	1962.3	1943.6	1925.0	1906.3	1887.6	1869.0	1850.3	1803.4
60°	2043.3	2023.9	2004.6	1985.2	1965.9	1946.5	1927.2	1907.8	1888.5	1869.1	1820.0
62.5°	2061.0	2041.4	2021.8	2002.3	1982.7	1963.1	1943.5	1924.0	1904.4	1884.8	1833.6
65°	2070.4	2050.7	2031.0	2011.3	1991.6	1971.9	1952.2	1932.5	1912.8	1893.1	1840.3
67.5°	2074.6	2054.7	2034.7	2014.8	1994.9	1974.9	1955.0	1935.1	1915.1	1895.2	1841.0
70°	2069.4	2049.3	2029.3	2009.2	1989.2	1969.1	1949.1	1929.0	1909.0	1888.9	1833.7
72.5°	2055.8	2035.8	2015.7	1995.7	1975.6	1955.6	1935.5	1915.5	1895.4	1875.4	1819.8
75°	2031.8	2012.0	1992.2	1972.4	1952.6	1932.7	1912.9	1893.1	1873.3	1853.5	1797.6
77.5°	1998.4	1979.1	1959.7	1940.4	1921.0	1901.7	1882.3	1863.0	1843.6	1824.3	1768.4
80°	1955.7	1936.7	1917.7	1898.7	1879.7	1860.6	1841.6	1822.6	1803.6	1784.6	1729.2
82.5°	1906.7	1888.2	1869.6	1851.1	1832.5	1814.0	1795.4	1776.9	1758.3	1739.8	1685.0
85°	1854.5	1836.1	1817.7	1799.2	1780.8	1762.4	1744.0	1725.5	1707.1	1688.7	1634.9
87.5°	1799.2	1781.1	1763.0	1745.0	1726.9	1708.8	1690.7	1672.7	1654.6	1636.5	1583.9
90°	1746.0	1728.2	1710.3	1692.5	1674.6	1656.8	1638.9	1621.1	1603.2	1585.4	1534.3
92.5°	1698.1	1680.7	1663.3	1645.9	1628.5	1611.2	1593.8	1576.4	1559.0	1541.6	1492.0
95°	1653.2	1636.4	1619.6	1602.8	1586.0	1569.2	1552.4	1535.6	1518.8	1502.0	1453.7
97.5°	1608.4	1591.9	1575.5	1559.0	1542.5	1526.1	1509.6	1493.1	1476.7	1460.2	1413.3
100°	1563.5	1547.5	1531.5	1515.5	1499.5	1483.6	1467.6	1451.6	1435.6	1419.6	1373.5
102.5°	1520.7	1505.1	1489.4	1473.8	1458.1	1442.5	1426.8	1411.2	1395.5	1379.9	1334.7
105°	1478.0	1462.7	1447.4	1432.1	1416.8	1401.5	1386.2	1370.9	1355.6	1340.3	1295.8
107.5°	1433.1	1417.9	1402.7	1387.6	1372.4	1357.2	1342.0	1326.9	1311.7	1296.5	1253.3
110°	1385.1	1370.2	1355.2	1340.3	1325.3	1310.4	1295.4	1280.5	1265.5	1250.6	1208.6



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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°	1335.1	1320.4	1305.7	1290.9	1276.2	1261.5	1246.8	1232.0	1217.3	1202.6	1161.9
115°	1280.8	1266.0	1251.1	1236.3	1221.5	1206.6	1191.8	1177.0	1162.1	1147.3	1108.6
117.5°	1225.6	1211.8	1198.0	1184.2	1170.4	1156.6	1142.8	1129.0	1115.2	1101.4	1063.4
120°	1168.2	1154.3	1140.4	1126.5	1112.6	1098.6	1084.7	1070.8	1056.9	1043.0	1006.4
122.5°	1107.7	1094.3	1080.8	1067.4	1053.9	1040.5	1027.0	1013.6	1000.1	986.7	951.5
125°	1044.1	1031.3	1018.6	1005.8	993.1	980.3	967.6	954.8	942.1	929.3	895.3
127.5°	978.4	966.3	954.3	942.2	930.2	918.1	906.1	894.0	882.0	869.9	837.2
130°	911.6	900.2	888.9	877.5	866.2	854.8	843.5	832.1	820.8	809.4	777.9
132.5°	843.8	833.0	822.2	811.5	800.7	789.9	779.1	768.4	757.6	746.8	716.8
135°	773.9	763.6	753.3	743.0	732.7	722.3	712.0	701.7	691.4	681.1	653.2
137.5°	699.9	690.2	680.4	670.7	661.0	651.2	641.5	631.8	622.0	612.3	586.9
140°	626.9	618.1	609.3	600.5	591.7	582.8	574.0	565.2	556.4	547.6	524.3
142.5°	555.9	548.3	540.6	533.0	525.3	517.7	510.0	502.4	494.7	487.1	466.0
145°	490.2	483.4	476.5	469.7	462.9	456.0	449.2	442.4	435.5	428.7	409.2
147.5°	425.6	419.5	413.3	407.2	401.0	394.9	388.7	382.6	376.4	370.3	352.4
150°	363.0	357.4	351.9	346.3	340.7	335.2	329.6	324.0	318.5	312.9	296.9
152.5°	300.4	295.3	290.2	285.1	280.0	274.9	269.8	264.7	259.6	254.5	240.7
155°	236.8	232.5	228.2	223.9	219.6	215.4	211.1	206.8	202.5	198.2	185.9
157.5°	179.4	175.8	172.2	168.6	165.0	161.5	157.9	154.3	150.7	147.1	137.1
160°	125.2	121.8	118.5	115.1	111.7	108.4	105.0	101.6	98.3	94.9	88.3
162.5°	75.1	73.0	70.9	68.8	66.7	64.7	62.6	60.5	58.4	56.3	51.9
165°	38.6	37.2	35.8	34.4	33.0	31.7	30.3	28.9	27.5	26.1	24.0
167.5°	13.6	13.1	12.7	12.2	11.7	11.3	10.8	10.3	9.9	9.4	8.6
170°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1151.9	1152.6	1153.3	1153.9	1154.6	1155.3	1156.0	1156.7	1155.1	1153.5	1151.8
5°	1168.4	1168.5	1168.6	1168.8	1168.9	1169.0	1169.1	1169.2	1166.7	1164.1	1161.6
7.5°	1187.2	1186.3	1185.4	1184.4	1183.5	1182.6	1181.6	1180.7	1177.0	1173.3	1169.6
10°	1203.6	1201.9	1200.3	1198.7	1197.1	1195.4	1193.8	1192.2	1186.9	1181.5	1176.2
12.5°	1226.4	1223.2	1219.9	1216.7	1213.4	1210.2	1206.9	1203.7	1196.6	1189.5	1182.5
15°	1255.5	1249.6	1243.7	1237.7	1231.8	1225.9	1220.0	1214.1	1204.9	1195.8	1186.6
17.5°	1289.3	1280.5	1271.7	1262.8	1254.0	1245.2	1236.4	1227.6	1215.9	1204.2	1192.5
20°	1322.8	1311.4	1300.1	1288.7	1277.4	1266.0	1254.7	1243.3	1228.5	1213.6	1198.8
22.5°	1357.2	1343.8	1330.3	1316.9	1303.4	1290.0	1276.5	1263.1	1244.7	1226.3	1207.8
25°	1392.7	1377.1	1361.6	1346.1	1330.6	1315.0	1299.5	1284.0	1261.5	1239.0	1216.5
27.5°	1427.1	1409.5	1391.9	1374.2	1356.6	1339.0	1321.4	1303.8	1277.4	1251.0	1224.5
30°	1459.4	1439.7	1420.0	1400.3	1380.6	1360.9	1341.2	1321.5	1291.4	1261.2	1231.1
32.5°	1491.3	1469.3	1447.3	1425.2	1403.2	1381.2	1359.2	1337.2	1303.6	1270.0	1236.4
35°	1525.2	1500.9	1476.6	1452.2	1427.9	1403.6	1379.2	1354.9	1318.0	1281.2	1244.3
37.5°	1554.7	1528.4	1502.1	1475.7	1449.4	1423.1	1396.8	1370.5	1330.5	1290.5	1250.6
40°	1583.7	1555.2	1526.7	1498.1	1469.6	1441.1	1412.6	1384.1	1341.3	1298.6	1255.8
42.5°	1613.0	1581.9	1550.9	1519.8	1488.8	1457.7	1426.7	1395.6	1350.1	1304.5	1259.0
45°	1641.3	1607.7	1574.1	1540.4	1506.8	1473.2	1439.6	1406.0	1357.8	1309.6	1261.4
47.5°	1668.5	1632.3	1596.2	1560.0	1523.9	1487.7	1451.6	1415.4	1364.4	1313.4	1262.4
50°	1693.4	1654.6	1615.8	1576.9	1538.1	1499.3	1460.4	1421.6	1367.9	1314.3	1260.6
52.5°	1717.1	1675.5	1633.9	1592.2	1550.6	1509.0	1467.4	1425.8	1369.6	1313.4	1257.2
55°	1737.5	1693.2	1648.8	1604.4	1560.0	1515.7	1471.3	1426.9	1368.5	1310.1	1251.7
57.5°	1756.4	1709.5	1662.6	1615.6	1568.7	1521.8	1474.8	1427.9	1367.1	1306.2	1245.4
60°	1770.8	1721.7	1672.6	1623.4	1574.3	1525.2	1476.0	1426.9	1363.7	1300.6	1237.4
62.5°	1782.3	1731.1	1679.9	1628.6	1577.4	1526.2	1474.9	1423.7	1358.5	1293.2	1228.0
65°	1787.4	1734.6	1681.7	1628.9	1576.0	1523.2	1470.3	1417.5	1350.2	1282.8	1215.5
67.5°	1786.7	1732.5	1678.2	1624.0	1569.7	1515.5	1461.2	1407.0	1337.8	1268.6	1199.5
70°	1778.6	1723.4	1668.2	1613.1	1557.9	1502.7	1447.6	1392.4	1321.8	1251.2	1180.7
72.5°	1764.1	1708.5	1652.9	1597.2	1541.6	1486.0	1430.3	1374.7	1302.8	1231.0	1159.1
75°	1741.8	1685.9	1630.0	1574.2	1518.3	1462.4	1406.6	1350.7	1278.2	1205.6	1133.1
77.5°	1712.6	1656.7	1600.8	1545.0	1489.1	1433.2	1377.4	1321.5	1248.7	1175.9	1103.2
80°	1673.8	1618.4	1563.0	1507.7	1452.3	1396.9	1341.5	1286.1	1213.7	1141.2	1068.8
82.5°	1630.2	1575.3	1520.5	1465.7	1410.9	1356.0	1301.2	1246.4	1174.8	1103.2	1031.5
85°	1581.1	1527.4	1473.6	1419.8	1366.0	1312.3	1258.5	1204.7	1134.2	1063.8	993.3
87.5°	1531.3	1478.7	1426.1	1373.4	1320.8	1268.2	1215.6	1163.0	1093.9	1024.8	955.8
90°	1483.2	1432.1	1381.0	1329.8	1278.7	1227.6	1176.5	1125.4	1057.5	989.6	921.7
92.5°	1442.4	1392.8	1343.2	1293.6	1244.0	1194.4	1144.8	1095.2	1028.7	962.2	895.6
95°	1405.3	1357.0	1308.7	1260.3	1212.0	1163.7	1115.3	1067.0	1001.5	936.0	870.6
97.5°	1366.3	1319.4	1272.5	1225.5	1178.6	1131.7	1084.7	1037.8	973.5	909.2	844.8
100°	1327.3	1281.2	1235.1	1188.9	1142.8	1096.7	1050.5	1004.4	941.5	878.6	815.6
102.5°	1289.5	1244.3	1199.1	1153.9	1108.7	1063.5	1018.3	973.1	911.3	849.6	787.8
105°	1251.3	1206.8	1162.3	1117.8	1073.3	1028.8	984.3	939.8	879.2	818.6	758.0
107.5°	1210.0	1166.8	1123.6	1080.3	1037.1	993.9	950.6	907.4	848.0	788.5	729.1
110°	1166.7	1124.7	1082.8	1040.8	998.9	956.9	915.0	873.0	814.7	756.4	698.1



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1121.2	1080.6	1039.9	999.2	958.5	917.9	877.2	836.5	779.7	722.9	666.1
115°	1069.9	1031.2	992.5	953.8	915.1	876.4	837.7	799.0	743.5	688.0	632.4
117.5°	1025.4	987.4	949.4	911.3	873.3	835.3	797.3	759.3	705.4	651.5	597.6
120°	969.8	933.1	896.5	859.9	823.3	786.6	750.0	713.4	661.9	610.5	559.0
122.5°	916.2	881.0	845.8	810.5	775.3	740.1	704.8	669.6	620.1	570.6	521.2
125°	861.4	827.4	793.5	759.5	725.6	691.6	657.7	623.7	576.7	529.6	482.6
127.5°	804.5	771.9	739.2	706.5	673.8	641.2	608.5	575.8	531.4	487.0	442.6
130°	746.4	714.8	683.3	651.8	620.3	588.7	557.2	525.7	484.3	442.9	401.6
132.5°	686.8	656.8	626.8	596.7	566.7	536.7	506.7	476.7	438.3	400.0	361.6
135°	625.2	597.3	569.4	541.4	513.5	485.6	457.6	429.7	394.1	358.5	323.0
137.5°	561.5	536.1	510.7	485.4	460.0	434.6	409.2	383.8	351.0	318.2	285.4
140°	501.0	477.7	454.4	431.1	407.8	384.5	361.2	337.9	307.3	276.7	246.1
142.5°	444.9	423.8	402.7	381.7	360.6	339.5	318.4	297.3	269.4	241.4	213.5
145°	389.8	370.3	350.8	331.4	311.9	292.4	273.0	253.5	228.9	204.3	179.8
147.5°	334.6	316.7	298.9	281.0	263.2	245.3	227.5	209.6	189.0	168.4	147.7
150°	280.9	264.9	248.9	233.0	217.0	201.0	185.0	169.0	152.1	135.2	118.2
152.5°	226.9	213.1	199.3	185.6	171.8	158.0	144.2	130.4	117.1	103.7	90.4
155°	173.6	161.3	149.0	136.8	124.5	112.2	99.9	87.6	78.6	69.5	60.5
157.5°	127.2	117.2	107.2	97.3	87.3	77.3	67.4	57.4	51.4	45.3	39.3
160°	81.7	75.1	68.5	61.9	55.3	48.7	42.1	35.5	31.7	27.8	24.0
162.5°	47.5	43.1	38.7	34.3	29.9	25.5	21.1	16.7	14.8	13.0	11.1
165°	21.9	19.8	17.7	15.7	13.6	11.5	9.4	7.3	6.5	5.7	4.9
167.5°	7.8	7.0	6.2	5.3	4.5	3.7	2.9	2.1	1.9	1.6	1.4
170°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1150.2	1148.6	1147.0	1145.3	1143.7	1142.1	1143.4	1144.7	1145.9	1147.2	1148.5
5°	1159.0	1156.5	1153.9	1151.4	1148.8	1146.3	1146.5	1146.8	1147.0	1147.2	1147.5
7.5°	1165.9	1162.1	1158.4	1154.7	1151.0	1147.3	1146.5	1145.7	1144.9	1144.1	1143.2
10°	1170.9	1165.5	1160.2	1154.9	1149.5	1144.2	1142.3	1140.5	1138.6	1136.8	1134.9
12.5°	1175.4	1168.3	1161.2	1154.2	1147.1	1140.0	1136.9	1133.8	1130.6	1127.5	1124.4
15°	1177.5	1168.3	1159.2	1150.0	1140.9	1131.7	1127.4	1123.1	1118.8	1114.5	1110.3
17.5°	1180.8	1169.1	1157.4	1145.7	1134.0	1122.3	1116.6	1110.9	1105.3	1099.6	1093.9
20°	1184.0	1169.1	1154.3	1139.5	1124.6	1109.8	1103.1	1096.4	1089.6	1082.9	1076.2
22.5°	1189.4	1171.0	1152.6	1134.1	1115.7	1097.3	1088.5	1079.7	1070.9	1062.1	1053.2
25°	1194.0	1171.6	1149.1	1126.6	1104.1	1081.6	1071.5	1061.4	1051.4	1041.3	1031.2
27.5°	1198.1	1171.7	1145.3	1118.8	1092.4	1066.0	1054.1	1042.1	1030.2	1018.2	1006.3
30°	1201.0	1170.8	1140.7	1110.6	1080.4	1050.3	1036.2	1022.0	1007.9	993.8	979.6
32.5°	1202.8	1169.1	1135.5	1101.9	1068.3	1034.7	1018.1	1001.5	985.0	968.4	951.8
35°	1207.5	1170.6	1133.8	1096.9	1060.1	1023.2	1003.6	984.0	964.4	944.8	925.3
37.5°	1210.6	1170.6	1130.6	1090.7	1050.7	1010.7	987.9	965.0	942.2	919.4	896.5
40°	1213.0	1170.3	1127.5	1084.7	1042.0	999.2	972.9	946.6	920.3	894.0	867.7
42.5°	1213.4	1167.9	1122.3	1076.8	1031.2	985.7	956.1	926.6	897.0	867.5	837.9
45°	1213.2	1164.9	1116.7	1068.5	1020.3	972.1	939.1	906.0	873.0	840.0	806.9
47.5°	1211.4	1160.5	1109.5	1058.5	1007.5	956.5	920.2	883.9	847.7	811.4	775.1
50°	1207.0	1153.3	1099.7	1046.0	992.4	938.7	899.4	860.1	820.8	781.5	742.3
52.5°	1201.0	1144.8	1088.6	1032.4	976.2	920.0	877.8	835.6	793.4	751.2	709.1
55°	1193.3	1134.8	1076.4	1018.0	959.6	901.2	856.0	810.8	765.6	720.4	675.2
57.5°	1184.5	1123.7	1062.8	1002.0	941.1	880.3	832.4	784.6	736.7	688.8	641.0
60°	1174.2	1111.1	1047.9	984.7	921.6	858.4	807.4	756.4	705.4	654.4	603.5
62.5°	1162.7	1097.5	1032.2	967.0	901.7	836.5	783.1	729.7	676.2	622.8	569.4
65°	1148.2	1080.8	1013.5	946.2	878.8	811.5	755.9	700.2	644.6	589.0	533.3
67.5°	1130.3	1061.1	991.9	922.8	853.6	784.4	727.0	669.7	612.3	554.9	497.6
70°	1110.1	1039.5	968.9	898.4	827.8	757.2	697.9	638.5	579.2	519.9	460.5
72.5°	1087.3	1015.4	943.6	871.7	799.9	728.0	667.4	606.8	546.2	485.6	424.9
75°	1060.5	988.0	915.4	842.9	770.3	697.8	636.3	574.7	513.2	451.6	390.1
77.5°	1030.4	957.6	884.8	812.1	739.3	666.5	604.4	542.3	480.1	418.0	355.9
80°	996.4	923.9	851.5	779.1	706.6	634.2	572.0	509.7	447.5	385.3	323.0
82.5°	959.9	888.3	816.7	745.0	673.4	601.8	540.0	478.3	416.5	354.7	293.0
85°	922.8	852.4	781.9	711.4	641.0	570.5	509.5	448.6	387.6	326.7	265.7
87.5°	886.7	817.6	748.5	679.5	610.4	541.3	481.7	422.2	362.6	303.0	243.5
90°	853.8	785.8	717.9	650.0	582.1	514.2	457.1	399.9	342.8	285.7	228.5
92.5°	829.1	762.6	696.1	629.5	563.0	496.5	441.3	386.2	331.0	275.8	220.7
95°	805.1	739.6	674.1	608.7	543.2	477.7	424.6	371.5	318.5	265.4	212.3
97.5°	780.5	716.2	651.9	587.5	523.2	458.9	407.9	356.9	305.9	254.9	204.0
100°	752.7	689.8	626.9	563.9	501.0	438.1	389.4	340.7	292.1	243.4	194.7
102.5°	726.0	664.3	602.5	540.7	479.0	417.2	370.8	324.5	278.1	231.8	185.4
105°	697.4	636.7	576.1	515.5	454.9	394.3	350.5	306.7	262.9	219.1	175.2
107.5°	669.6	610.2	550.7	491.3	431.8	372.4	331.0	289.6	248.3	206.9	165.5
110°	639.8	581.6	523.3	465.0	406.7	348.4	309.7	271.0	232.3	193.6	154.8



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	609.3	552.6	495.8	439.0	382.2	325.4	289.2	253.1	216.9	180.8	144.6
115°	576.9	521.4	465.9	410.3	354.8	299.3	266.0	232.8	199.5	166.3	133.0
117.5°	543.7	489.9	436.0	382.1	328.2	274.3	243.8	213.3	182.9	152.4	121.9
120°	507.6	456.1	404.7	353.2	301.8	250.3	222.5	194.7	166.9	139.1	111.2
122.5°	471.7	422.2	372.7	323.3	273.8	224.3	199.4	174.5	149.5	124.6	99.7
125°	435.5	388.5	341.4	294.4	247.3	200.3	178.0	155.8	133.5	111.3	89.0
127.5°	398.2	353.9	309.5	265.1	220.7	176.3	156.7	137.1	117.5	97.9	78.4
130°	360.2	318.8	277.4	236.1	194.7	153.3	136.3	119.2	102.2	85.2	68.1
132.5°	323.2	284.9	246.5	208.1	169.8	131.4	116.8	102.2	87.6	73.0	58.4
135°	287.4	251.8	216.2	180.7	145.1	109.5	97.3	85.2	73.0	60.8	48.7
137.5°	252.6	219.9	187.1	154.3	121.5	88.7	78.8	69.0	59.1	49.3	39.4
140°	215.5	185.0	154.4	123.8	93.2	62.6	55.6	48.7	41.7	34.8	27.8
142.5°	185.6	157.6	129.7	101.8	73.8	45.9	40.8	35.7	30.6	25.5	20.4
145°	155.2	130.6	106.0	81.5	56.9	32.3	28.7	25.1	21.5	17.9	14.4
147.5°	127.1	106.5	85.9	65.2	44.6	24.0	21.3	18.7	16.0	13.3	10.7
150°	101.3	84.4	67.5	50.5	33.6	16.7	14.8	13.0	11.1	9.3	7.4
152.5°	77.1	63.7	50.4	37.1	23.7	10.4	9.2	8.1	6.9	5.8	4.6
155°	51.5	42.4	33.4	24.4	15.3	6.3	5.6	4.9	4.2	3.5	2.8
157.5°	33.3	27.2	21.2	15.2	9.1	3.1	2.8	2.4	2.1	1.7	1.4
160°	20.2	16.3	12.5	8.7	4.8	1.0	0.9	0.8	0.7	0.6	0.4
162.5°	9.3	7.4	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
165°	4.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1149.8	1151.0	1152.3	1153.6	1151.3	1149.0	1146.6	1144.3	1142.0	1139.7	1137.3
5°	1147.7	1147.9	1148.2	1148.4	1145.5	1142.6	1139.7	1136.8	1133.9	1131.0	1128.1
7.5°	1142.4	1141.6	1140.8	1140.0	1136.8	1133.5	1130.3	1127.0	1123.8	1120.5	1117.3
10°	1133.1	1131.2	1129.4	1127.5	1124.0	1120.5	1117.1	1113.6	1110.1	1106.6	1103.2
12.5°	1121.3	1118.1	1115.0	1111.9	1108.4	1104.9	1101.5	1098.0	1094.5	1091.0	1087.6
15°	1106.0	1101.7	1097.4	1093.1	1089.7	1086.4	1083.0	1079.6	1076.3	1072.9	1069.5
17.5°	1088.2	1082.6	1076.9	1071.2	1068.2	1065.2	1062.2	1059.2	1056.1	1053.1	1050.1
20°	1069.5	1062.7	1056.0	1049.3	1046.7	1044.2	1041.6	1039.1	1036.5	1034.0	1031.4
22.5°	1044.4	1035.6	1026.8	1018.0	1016.7	1015.4	1014.2	1012.9	1011.6	1010.3	1009.1
25°	1021.1	1011.1	1001.0	990.9	990.4	990.0	989.5	989.0	988.6	988.1	987.6
27.5°	994.3	982.4	970.4	958.5	959.5	960.6	961.6	962.7	963.7	964.8	965.8
30°	965.5	951.4	937.2	923.1	926.2	929.3	932.5	935.6	938.7	941.8	945.0
32.5°	935.2	918.7	902.1	885.5	891.1	896.6	902.2	907.8	913.3	918.9	924.5
35°	905.7	886.1	866.5	846.9	855.1	863.4	871.6	879.8	888.1	896.3	904.5
37.5°	873.7	850.9	828.0	805.2	816.3	827.4	838.6	849.7	860.8	871.9	883.1
40°	841.4	815.1	788.8	762.5	776.5	790.5	804.6	818.6	832.6	846.6	860.7
42.5°	808.4	778.8	749.3	719.7	736.4	753.1	769.8	786.5	803.1	819.8	836.5
45°	773.9	740.9	707.8	674.8	694.4	714.0	733.6	753.2	772.7	792.3	811.9
47.5°	738.8	702.6	666.3	630.0	652.4	674.7	697.1	719.5	741.8	764.2	786.6
50°	703.0	663.7	624.4	585.1	610.3	635.4	660.6	685.7	710.9	736.0	761.2
52.5°	666.9	624.7	582.5	540.3	568.0	595.7	623.4	651.1	678.8	706.5	734.2
55°	630.0	584.8	539.6	494.4	524.5	554.7	584.8	614.9	645.1	675.2	705.3
57.5°	593.1	545.2	497.4	449.5	482.1	514.6	547.2	579.8	612.3	644.9	677.5
60°	552.5	501.5	450.5	399.5	434.8	470.2	505.5	540.9	576.2	611.6	646.9
62.5°	516.0	462.5	409.1	355.7	393.1	430.6	468.0	505.4	542.9	580.3	617.7
65°	477.7	422.1	366.4	310.8	350.2	389.6	429.0	468.4	507.9	547.3	586.7
67.5°	440.2	382.8	325.5	268.1	309.1	350.1	391.2	432.2	473.2	514.2	555.3
70°	401.2	341.9	282.5	223.2	265.8	308.5	351.1	393.8	436.4	479.1	521.7
72.5°	364.3	303.7	243.1	182.5	226.2	269.9	313.6	357.3	401.0	444.7	488.4
75°	328.5	267.0	205.4	143.9	188.6	233.4	278.1	322.8	367.6	412.3	457.0
77.5°	293.8	231.6	169.5	107.4	152.5	197.6	242.7	287.8	332.8	377.9	423.0
80°	260.8	198.6	136.3	74.1	119.2	164.3	209.3	254.4	299.5	344.6	389.6
82.5°	231.2	169.4	107.7	45.9	90.4	134.9	179.4	223.9	268.4	312.9	357.4
85°	204.8	143.8	82.9	21.9	65.6	109.3	153.0	196.7	240.3	284.0	327.7
87.5°	183.9	124.3	64.8	5.2	47.7	90.3	132.8	175.3	217.9	260.4	302.9
90°	171.4	114.3	57.1	0.0	40.7	81.4	122.0	162.7	203.4	244.1	284.7
92.5°	165.5	110.3	55.2	0.0	38.7	77.4	116.1	154.8	193.6	232.3	271.0
95°	159.2	106.2	53.1	0.0	36.9	73.7	110.6	147.4	184.3	221.1	258.0
97.5°	153.0	102.0	51.0	0.0	34.8	69.5	104.3	139.1	173.8	208.6	243.4
100°	146.0	97.4	48.7	0.0	32.7	65.4	98.0	130.7	163.4	196.1	228.7
102.5°	139.1	92.7	46.4	0.0	30.6	61.2	91.8	122.4	153.0	183.6	214.2
105°	131.4	87.6	43.8	0.0	28.5	57.0	85.5	114.0	142.6	171.1	199.6
107.5°	124.1	82.8	41.4	0.0	26.2	52.4	78.6	104.8	130.9	157.1	183.3
110°	116.1	77.4	38.7	0.0	24.1	48.2	72.3	96.4	120.6	144.7	168.8



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	108.5	72.3	36.2	0.0	22.0	44.0	66.1	88.1	110.1	132.1	154.2
115°	99.8	66.5	33.3	0.0	19.8	39.6	59.5	79.3	99.1	118.9	138.8
117.5°	91.4	61.0	30.5	0.0	17.8	35.7	53.5	71.4	89.2	107.1	124.9
120°	83.4	55.6	27.8	0.0	15.8	31.5	47.3	63.1	78.8	94.6	110.4
122.5°	74.8	49.8	24.9	0.0	13.8	27.6	41.4	55.2	68.9	82.7	96.5
125°	66.8	44.5	22.3	0.0	11.7	23.4	35.1	46.8	58.5	70.2	81.9
127.5°	58.8	39.2	19.6	0.0	9.5	19.0	28.5	38.0	47.5	57.0	66.5
130°	51.1	34.1	17.0	0.0	7.5	15.1	22.6	30.1	37.7	45.2	52.7
132.5°	43.8	29.2	14.6	0.0	5.8	11.6	17.4	23.2	29.0	34.8	40.6
135°	36.5	24.3	12.2	0.0	4.3	8.6	12.9	17.2	21.4	25.7	30.0
137.5°	29.6	19.7	9.9	0.0	2.9	5.8	8.7	11.6	14.5	17.4	20.3
140°	20.9	13.9	7.0	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0
142.5°	15.3	10.2	5.1	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.1
145°	10.8	7.2	3.6	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
147.5°	8.0	5.3	2.7	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4
150°	5.6	3.7	1.9	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
152.5°	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1135.0	1132.7	1132.2	1131.8	1131.3	1130.9	1130.4	1130.0	1129.5	1129.1	1128.6
5°	1125.2	1122.3	1121.6	1120.9	1120.2	1119.5	1118.8	1118.1	1117.4	1116.7	1116.0
7.5°	1114.0	1110.8	1110.2	1109.6	1109.1	1108.5	1107.9	1107.3	1106.8	1106.2	1105.6
10°	1099.7	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2	1096.2
12.5°	1084.1	1080.6	1081.8	1082.9	1084.1	1085.2	1086.4	1087.5	1088.7	1089.8	1091.0
15°	1066.2	1062.8	1065.7	1068.6	1071.5	1074.4	1077.3	1080.2	1083.1	1086.0	1088.9
17.5°	1047.1	1044.1	1049.8	1055.5	1061.1	1066.8	1072.5	1078.2	1083.8	1089.5	1095.2
20°	1028.9	1026.3	1035.5	1044.6	1053.8	1062.9	1072.1	1081.2	1090.4	1099.5	1108.7
22.5°	1007.8	1006.5	1019.4	1032.2	1045.1	1058.0	1070.8	1083.7	1096.6	1109.4	1122.3
25°	987.2	986.7	1003.2	1019.6	1036.1	1052.5	1069.0	1085.4	1101.9	1118.3	1134.8
27.5°	966.9	967.9	987.7	1007.5	1027.4	1047.2	1067.0	1086.8	1106.7	1126.5	1146.3
30°	948.1	951.2	973.9	996.6	1019.4	1042.1	1064.8	1087.5	1110.3	1133.0	1155.7
32.5°	930.0	935.6	960.9	986.1	1011.4	1036.7	1061.9	1087.2	1112.5	1137.7	1163.0
35°	912.8	921.0	948.5	975.9	1003.4	1030.9	1058.3	1085.8	1113.3	1140.7	1168.2
37.5°	894.2	905.3	935.1	964.9	994.7	1024.5	1054.2	1084.0	1113.8	1143.6	1173.4
40°	874.7	888.7	920.8	952.9	985.0	1017.1	1049.2	1081.3	1113.4	1145.5	1177.6
42.5°	853.2	869.9	904.6	939.2	973.9	1008.5	1043.2	1077.8	1112.5	1147.1	1181.8
45°	831.5	851.1	888.1	925.0	962.0	999.0	1035.9	1072.9	1109.9	1146.8	1183.8
47.5°	808.9	831.3	870.6	909.9	949.2	988.5	1027.7	1067.0	1106.3	1145.6	1184.9
50°	786.3	811.5	853.0	894.5	936.0	977.5	1018.9	1060.4	1101.9	1143.4	1184.9
52.5°	761.9	789.6	833.4	877.2	921.0	964.8	1008.6	1052.4	1096.2	1140.0	1183.8
55°	735.5	765.6	812.0	858.3	904.7	951.0	997.4	1043.7	1090.1	1136.4	1182.8
57.5°	710.0	742.6	791.3	840.0	888.6	937.3	986.0	1034.7	1083.3	1132.0	1180.7
60°	682.3	717.6	768.9	820.3	871.6	923.0	974.3	1025.7	1077.0	1128.4	1179.7
62.5°	655.2	692.6	746.4	800.1	853.9	907.7	961.4	1015.2	1069.0	1122.7	1176.5
65°	626.1	665.5	721.7	777.9	834.1	890.3	946.5	1002.7	1058.9	1115.1	1171.3
67.5°	596.3	637.3	695.7	754.1	812.5	870.9	929.4	987.8	1046.2	1104.6	1163.0
70°	564.4	607.0	667.0	727.1	787.1	847.1	907.2	967.2	1027.2	1087.3	1147.3
72.5°	532.1	575.8	636.6	697.5	758.3	819.1	880.0	940.8	1001.6	1062.5	1123.3
75°	501.8	546.5	607.0	667.5	728.0	788.5	849.0	909.5	970.0	1030.5	1091.0
77.5°	468.1	513.2	572.9	632.6	692.2	751.9	811.6	871.3	930.9	990.6	1050.3
80°	434.7	479.8	538.0	596.2	654.3	712.5	770.7	828.9	887.0	945.2	1003.4
82.5°	401.9	446.4	503.0	559.5	616.1	672.6	729.2	785.7	842.3	898.8	955.4
85°	371.4	415.1	469.9	524.7	579.6	634.4	689.2	744.0	798.9	853.7	908.5
87.5°	345.5	388.0	441.1	494.2	547.2	600.3	653.4	706.5	759.5	812.6	865.7
90°	325.4	366.1	417.6	469.0	520.5	571.9	623.4	674.8	726.3	777.7	829.2
92.5°	309.7	348.4	398.3	448.3	498.2	548.2	598.1	648.1	698.0	748.0	797.9
95°	294.8	331.7	380.4	429.1	477.7	526.4	575.1	623.8	672.4	721.1	769.8
97.5°	278.1	312.9	360.4	407.9	455.5	503.0	550.5	598.0	645.6	693.1	740.6
100°	261.4	294.1	340.5	386.8	433.2	479.5	525.9	572.2	618.6	664.9	711.3
102.5°	244.8	275.4	320.8	366.2	411.7	457.1	502.5	547.9	593.4	638.8	684.2
105°	228.1	256.6	300.8	344.9	389.1	433.2	477.4	521.5	565.7	609.8	654.0
107.5°	209.5	235.7	278.8	321.9	365.0	408.1	451.3	494.4	537.5	580.6	623.7
110°	192.9	217.0	258.7	300.4	342.1	383.8	425.6	467.3	509.0	550.7	592.4



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	176.2	198.2	238.5	278.9	319.2	359.5	399.9	440.2	480.5	520.9	561.2
115°	158.6	178.4	217.3	256.3	295.2	334.1	373.1	412.0	450.9	489.9	528.8
117.5°	142.8	160.6	197.9	235.2	272.6	309.9	347.2	384.5	421.9	459.2	496.5
120°	126.1	141.9	177.6	213.3	249.0	284.7	320.3	356.0	391.7	427.4	463.1
122.5°	110.3	124.1	157.9	191.8	225.6	259.5	293.3	327.2	361.0	394.9	428.7
125°	93.6	105.3	137.3	169.3	201.3	233.3	265.2	297.2	329.2	361.2	393.2
127.5°	76.0	85.5	115.5	145.5	175.6	205.6	235.6	265.6	295.7	325.7	355.7
130°	60.3	67.8	95.0	122.3	149.5	176.7	204.0	231.2	258.4	285.7	312.9
132.5°	46.4	52.2	76.5	100.9	125.2	149.5	173.9	198.2	222.5	246.9	271.2
135°	34.3	38.6	59.9	81.2	102.6	123.9	145.2	166.5	187.9	209.2	230.5
137.5°	23.2	26.1	44.8	63.4	82.1	100.7	119.4	138.0	156.7	175.3	194.0
140°	14.8	16.7	32.8	48.9	65.0	81.1	97.3	113.4	129.5	145.6	161.7
142.5°	9.2	10.4	23.8	37.3	50.7	64.2	77.6	91.1	104.5	118.0	131.4
145°	5.6	6.3	16.8	27.4	37.9	48.5	59.0	69.6	80.1	90.7	101.2
147.5°	2.8	3.1	11.2	19.3	27.4	35.5	43.7	51.8	59.9	68.0	76.1
150°	1.9	2.1	7.8	13.5	19.1	24.8	30.5	36.2	41.8	47.5	53.2
152.5°	0.0	0.0	3.8	7.6	11.5	15.3	19.1	22.9	26.8	30.6	34.4
155°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	12.5	14.6	16.7	18.8
157.5°	0.0	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5	7.4	8.3
160°	0.0	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1
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: P201368

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1127.8	1127.0	1126.2	1125.4	1124.5	1123.7	1122.9	1122.1	1121.3	1120.1	1119.0
5°	1115.2	1114.4	1113.6	1112.8	1111.9	1111.1	1110.3	1109.5	1108.7	1108.4	1108.0
7.5°	1105.4	1105.1	1104.9	1104.7	1104.4	1104.2	1104.0	1103.7	1103.5	1103.4	1103.3
10°	1097.2	1098.3	1099.3	1100.4	1101.4	1102.5	1103.5	1104.6	1105.6	1105.6	1105.6
12.5°	1093.7	1096.3	1099.0	1101.7	1104.3	1107.0	1109.7	1112.3	1115.0	1116.0	1117.1
15°	1094.3	1099.8	1105.2	1110.7	1116.1	1121.6	1127.0	1132.5	1137.9	1140.3	1142.8
17.5°	1103.3	1111.4	1119.5	1127.6	1135.8	1143.9	1152.0	1160.1	1168.2	1171.1	1174.0
20°	1118.3	1127.9	1137.6	1147.2	1156.8	1166.4	1176.1	1185.7	1195.3	1198.9	1202.5
22.5°	1133.4	1144.5	1155.7	1166.8	1177.9	1189.0	1200.2	1211.3	1222.4	1226.6	1230.8
25°	1147.7	1160.5	1173.4	1186.3	1199.1	1212.0	1224.9	1237.7	1250.6	1255.0	1259.4
27.5°	1160.3	1174.3	1188.4	1202.4	1216.4	1230.4	1244.5	1258.5	1272.5	1277.9	1283.4
30°	1171.5	1187.2	1203.0	1218.7	1234.5	1250.2	1266.0	1281.7	1297.5	1303.6	1309.8
32.5°	1180.5	1198.0	1215.5	1233.0	1250.5	1268.0	1285.5	1303.0	1320.5	1327.6	1334.6
35°	1187.7	1207.1	1226.6	1246.1	1265.5	1285.0	1304.5	1323.9	1343.4	1351.4	1359.4
37.5°	1194.7	1216.0	1237.4	1258.7	1280.0	1301.3	1322.7	1344.0	1365.3	1374.3	1383.4
40°	1201.0	1224.4	1247.8	1271.2	1294.7	1318.1	1341.5	1364.9	1388.3	1398.4	1408.5
42.5°	1207.3	1232.8	1258.3	1283.8	1309.2	1334.7	1360.2	1385.7	1411.2	1422.4	1433.7
45°	1211.7	1239.7	1267.6	1295.5	1323.5	1351.4	1379.3	1407.3	1435.2	1447.6	1460.0
47.5°	1215.6	1246.3	1277.0	1307.7	1338.5	1369.2	1399.9	1430.6	1461.3	1474.9	1488.4
50°	1218.4	1251.9	1285.4	1318.9	1352.3	1385.8	1419.3	1452.8	1486.3	1501.3	1516.2
52.5°	1220.3	1256.8	1293.3	1329.8	1366.4	1402.9	1439.4	1475.9	1512.4	1528.6	1544.8
55°	1222.2	1261.6	1301.0	1340.4	1379.8	1419.2	1458.6	1498.0	1537.4	1554.7	1571.9
57.5°	1222.9	1265.1	1307.3	1349.5	1391.6	1433.8	1476.0	1518.2	1560.4	1578.1	1595.9
60°	1224.2	1268.7	1313.2	1357.7	1402.2	1446.7	1491.2	1535.7	1580.2	1598.7	1617.3
62.5°	1223.0	1269.5	1315.9	1362.4	1408.9	1455.4	1501.8	1548.3	1594.8	1613.5	1632.1
65°	1219.3	1267.3	1315.2	1363.2	1411.2	1459.2	1507.1	1555.1	1603.1	1622.0	1640.9
67.5°	1211.9	1260.8	1309.7	1358.6	1407.5	1456.4	1505.3	1554.2	1603.1	1621.8	1640.4
70°	1196.7	1246.1	1295.4	1344.8	1394.2	1443.6	1492.9	1542.3	1591.7	1610.2	1628.8
72.5°	1172.3	1221.3	1270.4	1319.4	1368.4	1417.4	1466.5	1515.5	1564.5	1582.7	1600.9
75°	1139.2	1187.4	1235.6	1283.8	1332.1	1380.3	1428.5	1476.7	1524.9	1541.9	1559.0
77.5°	1097.1	1143.9	1190.8	1237.6	1284.4	1331.2	1378.1	1424.9	1471.7	1488.4	1505.1
80°	1048.8	1094.3	1139.7	1185.1	1230.6	1276.0	1321.4	1366.9	1412.3	1428.5	1444.7
82.5°	999.2	1043.0	1086.8	1130.6	1174.5	1218.3	1262.1	1305.9	1349.7	1365.7	1381.7
85°	950.7	992.9	1035.0	1077.2	1119.4	1161.6	1203.7	1245.9	1288.1	1303.5	1318.9
87.5°	906.3	946.8	987.4	1028.0	1068.5	1109.1	1149.7	1190.2	1230.8	1246.0	1261.2
90°	868.3	907.3	946.4	985.4	1024.5	1063.5	1102.6	1141.6	1180.7	1195.3	1209.9
92.5°	835.7	873.5	911.2	949.0	986.8	1024.6	1062.3	1100.1	1137.9	1151.7	1165.5
95°	806.1	842.3	878.6	914.9	951.1	987.4	1023.7	1059.9	1096.2	1109.6	1123.1
97.5°	775.9	811.3	846.6	882.0	917.3	952.7	988.0	1023.4	1058.7	1071.6	1084.4
100°	745.8	780.4	814.9	849.5	884.0	918.6	953.1	987.7	1022.2	1034.6	1047.0
102.5°	717.7	751.2	784.7	818.2	851.7	885.2	918.7	952.2	985.7	997.9	1010.0
105°	686.7	719.4	752.0	784.7	817.4	850.1	882.7	915.4	948.1	960.0	972.0
107.5°	655.6	687.5	719.3	751.2	783.1	815.0	846.8	878.7	910.6	922.2	933.8
110°	623.3	654.3	685.2	716.2	747.1	778.1	809.0	840.0	870.9	882.1	893.4



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	591.1	621.0	650.9	680.8	710.7	740.6	770.5	800.4	830.3	841.2	852.1
115°	557.7	586.5	615.4	644.2	673.1	701.9	730.8	759.6	788.5	799.0	809.6
117.5°	524.2	551.9	579.6	607.3	635.0	662.7	690.4	718.1	745.8	756.1	766.4
120°	489.9	516.6	543.4	570.2	596.9	623.7	650.5	677.2	704.0	714.0	723.9
122.5°	454.3	479.9	505.5	531.1	556.8	582.4	608.0	633.6	659.2	668.8	678.4
125°	417.9	442.6	467.3	492.0	516.6	541.3	566.0	590.7	615.4	624.6	633.7
127.5°	379.5	403.2	427.0	450.7	474.5	498.2	522.0	545.7	569.5	578.3	587.1
130°	336.3	359.7	383.1	406.5	430.0	453.4	476.8	500.2	523.6	532.1	540.5
132.5°	293.9	316.6	339.3	362.0	384.8	407.5	430.2	452.9	475.6	483.6	491.6
135°	252.6	274.8	296.9	319.0	341.2	363.3	385.4	407.6	429.7	437.0	444.3
137.5°	214.7	235.5	256.2	277.0	297.7	318.5	339.2	360.0	380.7	388.0	395.3
140°	180.2	198.8	217.3	235.9	254.4	273.0	291.5	310.1	328.6	336.5	344.4
142.5°	147.6	163.8	180.1	196.3	212.5	228.7	245.0	261.2	277.4	285.6	293.9
145°	115.2	129.2	143.3	157.3	171.3	185.3	199.4	213.4	227.4	236.0	244.6
147.5°	88.0	100.0	111.9	123.9	135.8	147.8	159.7	171.7	183.6	192.1	200.5
150°	63.2	73.1	83.1	93.1	103.0	113.0	123.0	132.9	142.9	150.7	158.4
152.5°	42.4	50.4	58.4	66.4	74.4	82.4	90.4	98.4	106.4	113.6	120.8
155°	24.9	31.1	37.2	43.4	49.5	55.7	61.8	68.0	74.1	80.2	86.4
157.5°	12.5	16.7	20.8	25.0	29.2	33.4	37.5	41.7	45.9	51.0	56.1
160°	4.5	7.0	9.4	11.8	14.3	16.7	19.1	21.6	24.0	27.6	31.2
162.5°	0.9	1.8	2.8	3.7	4.6	5.5	6.5	7.4	8.3	10.4	12.5
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1117.8	1116.6	1115.5	1114.3	1113.1	1112.0	1110.8	1111.7	1112.7	1113.6	1114.5
5°	1107.7	1107.3	1107.0	1106.6	1106.3	1105.9	1105.6	1105.7	1105.8	1106.0	1106.1
7.5°	1103.2	1103.1	1102.9	1102.8	1102.7	1102.6	1102.5	1102.3	1102.0	1101.8	1101.6
10°	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1105.6	1104.8	1104.0	1103.2	1102.4
12.5°	1118.1	1119.2	1120.2	1121.3	1122.3	1123.4	1124.4	1122.5	1120.7	1118.8	1117.0
15°	1145.2	1147.6	1150.1	1152.5	1154.9	1157.4	1159.8	1156.9	1154.0	1151.1	1148.2
17.5°	1176.9	1179.8	1182.7	1185.6	1188.5	1191.4	1194.3	1191.1	1187.8	1184.6	1181.3
20°	1206.1	1209.7	1213.2	1216.8	1220.4	1224.0	1227.6	1223.5	1219.5	1215.4	1211.4
22.5°	1234.9	1239.1	1243.3	1247.5	1251.6	1255.8	1260.0	1255.0	1250.0	1245.0	1240.0
25°	1263.8	1268.2	1272.6	1277.0	1281.4	1285.8	1290.2	1284.8	1279.3	1273.9	1268.4
27.5°	1288.8	1294.3	1299.7	1305.2	1310.6	1316.1	1321.5	1315.5	1309.5	1303.4	1297.4
30°	1315.9	1322.1	1328.2	1334.4	1340.5	1346.7	1352.8	1346.0	1339.1	1332.3	1325.5
32.5°	1341.7	1348.8	1355.8	1362.9	1370.0	1377.0	1384.1	1376.5	1368.8	1361.2	1353.5
35°	1367.4	1375.4	1383.4	1391.4	1399.4	1407.4	1415.4	1407.1	1398.7	1390.4	1382.0
37.5°	1392.4	1401.5	1410.5	1419.6	1428.6	1437.7	1446.7	1437.5	1428.4	1419.2	1410.1
40°	1418.5	1428.6	1438.7	1448.8	1458.8	1468.9	1479.0	1468.9	1458.8	1448.8	1438.7
42.5°	1444.9	1456.2	1467.4	1478.7	1489.9	1501.2	1512.4	1501.6	1490.8	1480.1	1469.3
45°	1472.4	1484.8	1497.2	1509.6	1522.0	1534.4	1546.8	1534.9	1522.9	1511.0	1499.1
47.5°	1502.0	1515.5	1529.1	1542.6	1556.2	1569.7	1583.3	1570.3	1557.3	1544.4	1531.4
50°	1531.2	1546.1	1561.1	1576.0	1591.0	1605.9	1620.9	1606.9	1592.9	1578.8	1564.8
52.5°	1561.1	1577.3	1593.5	1609.7	1626.0	1642.2	1658.4	1643.2	1628.0	1612.9	1597.7
55°	1589.2	1606.5	1623.7	1641.0	1658.3	1675.5	1692.8	1676.8	1660.8	1644.8	1628.8
57.5°	1613.6	1631.3	1649.1	1666.8	1684.5	1702.3	1720.0	1703.8	1687.5	1671.3	1655.1
60°	1635.8	1654.4	1672.9	1691.5	1710.0	1728.6	1747.1	1730.3	1713.5	1696.7	1679.9
62.5°	1650.8	1669.4	1688.1	1706.7	1725.4	1744.0	1762.7	1745.9	1729.1	1712.3	1695.5
65°	1659.8	1678.7	1697.6	1716.5	1735.4	1754.3	1773.2	1756.3	1739.4	1722.4	1705.5
67.5°	1659.1	1677.8	1696.4	1715.1	1733.8	1752.4	1771.1	1754.4	1737.7	1721.0	1704.3
70°	1647.3	1665.8	1684.4	1702.9	1721.4	1740.0	1758.5	1741.8	1725.1	1708.5	1691.8
72.5°	1619.1	1637.3	1655.5	1673.7	1691.9	1710.1	1728.3	1712.0	1695.6	1679.3	1662.9
75°	1576.0	1593.0	1610.1	1627.1	1644.1	1661.2	1678.2	1662.9	1647.6	1632.3	1617.0
77.5°	1521.8	1538.5	1555.1	1571.8	1588.5	1605.2	1621.9	1606.4	1590.8	1575.3	1559.8
80°	1461.0	1477.2	1493.4	1509.6	1525.9	1542.1	1558.3	1543.1	1527.9	1512.7	1497.5
82.5°	1397.7	1413.7	1429.6	1445.6	1461.6	1477.6	1493.6	1478.4	1463.2	1448.1	1432.9
85°	1334.4	1349.8	1365.2	1380.6	1396.1	1411.5	1426.9	1412.2	1397.5	1382.7	1368.0
87.5°	1276.3	1291.5	1306.7	1321.9	1337.0	1352.2	1367.4	1353.4	1339.4	1325.3	1311.3
90°	1224.5	1239.1	1253.7	1268.3	1282.9	1297.5	1312.1	1298.5	1285.0	1271.4	1257.9
92.5°	1179.3	1193.1	1206.9	1220.7	1234.5	1248.3	1262.1	1249.1	1236.1	1223.1	1210.1
95°	1136.5	1150.0	1163.4	1176.9	1190.3	1203.8	1217.2	1204.7	1192.2	1179.7	1167.2
97.5°	1097.3	1110.2	1123.0	1135.9	1148.8	1161.6	1174.5	1162.4	1150.4	1138.3	1126.3
100°	1059.4	1071.8	1084.2	1096.6	1109.0	1121.4	1133.8	1122.0	1110.2	1098.3	1086.5
102.5°	1022.2	1034.4	1046.5	1058.7	1070.9	1083.0	1095.2	1083.6	1072.0	1060.4	1048.8
105°	983.9	995.8	1007.8	1019.7	1031.6	1043.6	1055.5	1044.1	1032.8	1021.4	1010.1
107.5°	945.4	957.0	968.5	980.1	991.7	1003.3	1014.9	1003.8	992.6	981.5	970.4
110°	904.6	915.9	927.1	938.4	949.6	960.9	972.1	961.2	950.3	939.4	928.5



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	863.0	873.9	884.7	895.6	906.5	917.4	928.3	917.6	907.0	896.3	885.6
115°	820.1	830.7	841.2	851.8	862.3	872.9	883.4	873.1	862.8	852.5	842.2
117.5°	776.7	787.0	797.4	807.7	818.0	828.3	838.6	828.7	818.9	809.0	799.2
120°	733.9	743.9	753.8	763.8	773.8	783.7	793.7	784.2	774.7	765.2	755.7
122.5°	688.1	697.7	707.3	716.9	726.6	736.2	745.8	736.8	727.7	718.7	709.6
125°	642.9	652.0	661.2	670.3	679.5	688.6	697.8	689.2	680.6	672.1	663.5
127.5°	595.9	604.7	613.6	622.4	631.2	640.0	648.8	640.7	632.6	624.5	616.4
130°	549.0	557.4	565.9	574.3	582.8	591.2	599.7	591.9	584.2	576.4	568.7
132.5°	499.6	507.6	515.6	523.6	531.6	539.6	547.6	540.3	533.0	525.7	518.4
135°	451.6	458.9	466.2	473.5	480.8	488.1	495.4	489.0	482.7	476.3	469.9
137.5°	402.6	409.9	417.2	424.5	431.8	439.1	446.4	440.5	434.6	428.7	422.8
140°	352.2	360.1	368.0	375.9	383.7	391.6	399.5	394.1	388.6	383.2	377.7
142.5°	302.1	310.3	318.6	326.8	335.0	343.3	351.5	346.5	341.5	336.6	331.6
145°	253.1	261.7	270.3	278.9	287.4	296.0	304.6	300.2	295.8	291.4	287.0
147.5°	209.0	217.4	225.9	234.3	242.8	251.2	259.7	255.5	251.4	247.2	243.0
150°	166.2	174.0	181.7	189.5	197.3	205.0	212.8	209.4	206.1	202.7	199.3
152.5°	128.0	135.2	142.3	149.5	156.7	163.9	171.1	168.1	165.1	162.0	159.0
155°	92.5	98.6	104.8	110.9	117.0	123.2	129.3	126.9	124.4	122.0	119.6
157.5°	61.2	66.3	71.4	76.5	81.6	86.7	91.8	89.8	87.9	85.9	83.9
160°	34.8	38.4	41.9	45.5	49.1	52.7	56.3	54.9	53.5	52.1	50.7
162.5°	14.6	16.7	18.7	20.8	22.9	25.0	27.1	26.4	25.7	25.0	24.3
165°	3.1	4.2	5.2	6.3	7.3	8.4	9.4	9.3	9.2	9.0	8.9
167.5°	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5
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: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1115.5	1116.4	1117.3	1118.3	1119.2	1120.6	1122.0	1123.4	1124.8	1126.1	1127.5
5°	1106.2	1106.3	1106.5	1106.6	1106.7	1108.1	1109.5	1110.9	1112.3	1113.6	1115.0
7.5°	1101.3	1101.1	1100.9	1100.6	1100.4	1101.3	1102.2	1103.2	1104.1	1105.0	1105.9
10°	1101.5	1100.7	1099.9	1099.1	1098.3	1098.6	1099.0	1099.3	1099.7	1100.0	1100.4
12.5°	1115.1	1113.3	1111.4	1109.6	1107.7	1106.5	1105.4	1104.2	1103.1	1101.9	1100.8
15°	1145.4	1142.5	1139.6	1136.7	1133.8	1129.6	1125.4	1121.3	1117.1	1112.9	1108.7
17.5°	1178.1	1174.8	1171.6	1168.3	1165.1	1158.0	1150.9	1143.9	1136.8	1129.7	1122.6
20°	1207.3	1203.3	1199.2	1195.2	1191.1	1182.6	1174.2	1165.7	1157.3	1148.8	1140.4
22.5°	1235.1	1230.1	1225.1	1220.1	1215.1	1205.4	1195.6	1185.9	1176.2	1166.4	1156.7
25°	1263.0	1257.5	1252.1	1246.6	1241.2	1229.8	1218.5	1207.1	1195.8	1184.4	1173.1
27.5°	1291.4	1285.4	1279.3	1273.3	1267.3	1254.2	1241.1	1228.0	1214.9	1201.8	1188.7
30°	1318.6	1311.8	1305.0	1298.1	1291.3	1276.5	1261.6	1246.8	1232.0	1217.1	1202.3
32.5°	1345.9	1338.2	1330.6	1322.9	1315.3	1298.5	1281.7	1264.9	1248.1	1231.2	1214.4
35°	1373.7	1365.3	1357.0	1348.6	1340.3	1321.5	1302.7	1284.0	1265.2	1246.4	1227.6
37.5°	1400.9	1391.8	1382.6	1373.5	1364.3	1343.7	1323.0	1302.4	1281.8	1261.1	1240.5
40°	1428.6	1418.5	1408.5	1398.4	1388.3	1365.7	1343.1	1320.5	1297.9	1275.3	1252.7
42.5°	1458.5	1447.7	1437.0	1426.2	1415.4	1390.4	1365.3	1340.3	1315.3	1290.2	1265.2
45°	1487.1	1475.2	1463.3	1451.3	1439.4	1412.2	1384.9	1357.7	1330.5	1303.2	1276.0
47.5°	1518.4	1505.4	1492.5	1479.5	1466.5	1436.5	1406.5	1376.5	1346.5	1316.4	1286.4
50°	1550.8	1536.8	1522.7	1508.7	1494.7	1461.7	1428.6	1395.6	1362.6	1329.5	1296.5
52.5°	1582.5	1567.3	1552.2	1537.0	1521.8	1485.9	1449.9	1414.0	1378.1	1342.1	1306.2
55°	1612.9	1596.9	1580.9	1564.9	1548.9	1510.0	1471.0	1432.1	1393.1	1354.2	1315.2
57.5°	1638.8	1622.6	1606.4	1590.1	1573.9	1532.2	1490.5	1448.7	1407.0	1365.3	1323.6
60°	1663.0	1646.2	1629.4	1612.6	1595.8	1551.6	1507.5	1463.3	1419.2	1375.0	1330.9
62.5°	1678.7	1661.9	1645.1	1628.3	1611.5	1565.4	1519.3	1473.1	1427.0	1380.9	1334.8
65°	1688.6	1671.7	1654.7	1637.8	1620.9	1573.1	1525.4	1477.6	1429.9	1382.1	1334.4
67.5°	1687.7	1671.0	1654.3	1637.6	1620.9	1572.2	1523.5	1474.9	1426.2	1377.5	1328.8
70°	1675.1	1658.4	1641.8	1625.1	1608.4	1559.4	1510.4	1461.3	1412.3	1363.3	1314.3
72.5°	1646.6	1630.2	1613.9	1597.5	1581.2	1532.4	1483.6	1434.8	1386.0	1337.3	1288.5
75°	1601.8	1586.5	1571.2	1555.9	1540.6	1492.6	1444.6	1396.6	1348.6	1300.7	1252.7
77.5°	1544.2	1528.7	1513.2	1497.6	1482.1	1436.1	1390.1	1344.1	1298.1	1252.1	1206.1
80°	1482.4	1467.2	1452.0	1436.8	1421.6	1376.9	1332.1	1287.4	1242.7	1197.9	1153.2
82.5°	1417.7	1402.5	1387.4	1372.2	1357.0	1313.9	1270.8	1227.7	1184.6	1141.4	1098.3
85°	1353.3	1338.6	1323.8	1309.1	1294.4	1252.8	1211.2	1169.6	1128.0	1086.4	1044.8
87.5°	1297.3	1283.3	1269.2	1255.2	1241.2	1200.6	1160.1	1119.5	1078.9	1038.4	997.8
90°	1244.3	1230.8	1217.2	1203.7	1190.1	1151.3	1112.5	1073.6	1034.8	996.0	957.2
92.5°	1197.2	1184.2	1171.2	1158.2	1145.2	1108.0	1070.8	1033.6	996.4	959.2	922.0
95°	1154.6	1142.1	1129.6	1117.1	1104.6	1068.7	1032.7	996.8	960.9	924.9	889.0
97.5°	1114.2	1102.2	1090.1	1078.1	1066.0	1031.1	996.2	961.3	926.4	891.6	856.7
100°	1074.7	1062.9	1051.0	1039.2	1027.4	993.4	959.5	925.5	891.6	857.6	823.7
102.5°	1037.3	1025.7	1014.1	1002.5	990.9	957.6	924.4	891.1	857.8	824.6	791.3
105°	998.7	987.4	976.0	964.7	953.3	921.0	888.6	856.3	824.0	791.6	759.3
107.5°	959.2	948.1	937.0	925.8	914.7	883.4	852.1	820.8	789.5	758.3	727.0
110°	917.7	906.8	895.9	885.0	874.1	844.1	814.1	784.0	754.0	724.0	694.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	875.0	864.3	853.6	843.0	832.3	803.4	774.6	745.7	716.9	688.0	659.2
115°	831.8	821.5	811.2	800.9	790.6	762.8	735.0	707.2	679.4	651.5	623.7
117.5°	789.3	779.5	769.6	759.8	749.9	723.1	696.4	669.6	642.8	616.1	589.3
120°	746.2	736.7	727.2	717.7	708.2	682.4	656.5	630.7	604.8	579.0	553.1
122.5°	700.6	691.5	682.5	673.4	664.4	639.5	614.6	589.7	564.8	539.8	514.9
125°	654.9	646.3	637.8	629.2	620.6	596.6	572.6	548.6	524.6	500.7	476.7
127.5°	608.2	600.1	592.0	583.9	575.8	553.0	530.1	507.3	484.5	461.6	438.8
130°	560.9	553.2	545.4	537.7	529.9	508.5	487.0	465.6	444.1	422.7	401.2
132.5°	511.1	503.8	496.5	489.2	481.9	462.1	442.3	422.4	402.6	382.8	363.0
135°	463.6	457.2	450.8	444.5	438.1	419.6	401.0	382.5	363.9	345.4	326.8
137.5°	416.8	410.9	405.0	399.1	393.2	375.7	358.2	340.7	323.2	305.7	288.2
140°	372.3	366.8	361.4	355.9	350.5	334.2	317.8	301.5	285.1	268.8	252.4
142.5°	326.6	321.6	316.7	311.7	306.7	291.9	277.0	262.2	247.3	232.5	217.6
145°	282.5	278.1	273.7	269.3	264.9	251.5	238.0	224.6	211.1	197.7	184.2
147.5°	238.9	234.7	230.5	226.4	222.2	210.4	198.6	186.7	174.9	163.1	151.3
150°	196.0	192.6	189.2	185.9	182.5	172.1	161.7	151.2	140.8	130.4	120.0
152.5°	156.0	153.0	149.9	146.9	143.9	135.0	126.1	117.1	108.2	99.3	90.4
155°	117.1	114.7	112.3	109.8	107.4	100.1	92.8	85.5	78.2	70.9	63.6
157.5°	82.0	80.0	78.0	76.1	74.1	68.4	62.7	57.0	51.3	45.7	40.0
160°	49.4	48.0	46.6	45.2	43.8	40.3	36.8	33.4	29.9	26.4	22.9
162.5°	23.7	23.0	22.3	21.6	20.9	19.3	17.7	16.0	14.4	12.8	11.2
165°	8.8	8.7	8.5	8.4	8.3	7.7	7.1	6.6	6.0	5.4	4.8
167.5°	1.6	1.7	1.9	2.0	2.1	1.9	1.6	1.4	1.2	0.9	0.7
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1128.9	1130.3	1131.7	1131.8	1131.9	1132.0	1132.1	1132.3	1132.4	1132.5	1132.6
5°	1116.4	1117.8	1119.2	1119.5	1119.9	1120.2	1120.6	1120.9	1121.3	1121.6	1122.0
7.5°	1106.9	1107.8	1108.7	1108.8	1108.9	1109.1	1109.2	1109.3	1109.4	1109.6	1109.7
10°	1100.7	1101.1	1101.4	1100.6	1099.8	1099.0	1098.2	1097.3	1096.5	1095.7	1094.9
12.5°	1099.6	1098.5	1097.3	1095.1	1092.9	1090.7	1088.5	1086.2	1084.0	1081.8	1079.6
15°	1104.6	1100.4	1096.2	1092.3	1088.3	1084.4	1080.5	1076.5	1072.6	1068.7	1064.7
17.5°	1115.6	1108.5	1101.4	1094.8	1088.2	1081.6	1075.0	1068.4	1061.8	1055.2	1048.6
20°	1131.9	1123.5	1115.0	1104.7	1094.4	1084.1	1073.8	1063.4	1053.1	1042.8	1032.5
22.5°	1147.0	1137.2	1127.5	1113.7	1099.9	1086.1	1072.3	1058.6	1044.8	1031.0	1017.2
25°	1161.7	1150.4	1139.0	1121.7	1104.5	1087.2	1069.9	1052.7	1035.4	1018.1	1000.9
27.5°	1175.6	1162.5	1149.4	1128.9	1108.4	1087.9	1067.4	1046.8	1026.3	1005.8	985.3
30°	1187.5	1172.6	1157.8	1134.5	1111.2	1087.9	1064.6	1041.3	1018.0	994.7	971.4
32.5°	1197.6	1180.8	1164.0	1138.5	1113.0	1087.5	1062.0	1036.6	1011.1	985.6	960.1
35°	1208.9	1190.1	1171.3	1143.4	1115.5	1087.5	1059.6	1031.7	1003.8	975.8	947.9
37.5°	1219.9	1199.2	1178.6	1148.2	1117.9	1087.5	1057.1	1026.8	996.4	966.0	935.7
40°	1230.1	1207.5	1184.9	1152.2	1119.5	1086.8	1054.1	1021.5	988.8	956.1	923.4
42.5°	1240.2	1215.1	1190.1	1155.0	1119.9	1084.8	1049.7	1014.5	979.4	944.3	909.2
45°	1248.8	1221.5	1194.3	1156.7	1119.2	1081.6	1044.1	1006.5	969.0	931.4	893.9
47.5°	1256.4	1226.4	1196.4	1156.6	1116.9	1077.1	1037.4	997.6	957.9	918.1	878.4
50°	1263.5	1230.4	1197.4	1155.3	1113.3	1071.2	1029.1	987.1	945.0	902.9	860.9
52.5°	1270.3	1234.3	1198.4	1153.8	1109.2	1064.6	1020.0	975.3	930.7	886.1	841.5
55°	1276.3	1237.3	1198.4	1151.4	1104.3	1057.3	1010.2	963.2	916.1	869.1	822.0
57.5°	1281.8	1240.1	1198.4	1148.9	1099.4	1050.0	1000.5	951.0	901.5	852.1	802.6
60°	1286.7	1242.6	1198.4	1146.4	1094.3	1042.3	990.3	938.2	886.2	834.2	782.1
62.5°	1288.6	1242.5	1196.4	1141.9	1087.4	1033.0	978.5	924.0	869.5	815.1	760.6
65°	1286.6	1238.9	1191.1	1134.3	1077.5	1020.8	964.0	907.2	850.4	793.7	736.9
67.5°	1280.2	1231.5	1182.8	1123.8	1064.8	1005.8	946.8	887.9	828.9	769.9	710.9
70°	1265.2	1216.2	1167.2	1106.7	1046.2	985.7	925.2	864.7	804.2	743.7	683.2
72.5°	1239.7	1190.9	1142.1	1081.3	1020.4	959.6	898.7	837.9	777.0	716.2	655.3
75°	1204.7	1156.7	1108.7	1047.5	986.3	925.1	863.9	802.8	741.6	680.4	619.2
77.5°	1160.1	1114.1	1068.1	1007.9	947.8	887.6	827.5	767.3	707.2	647.0	586.9
80°	1108.5	1063.7	1019.0	960.6	902.2	843.8	785.4	727.0	668.6	610.2	551.8
82.5°	1055.2	1012.1	969.0	912.6	856.1	799.7	743.2	686.8	630.3	573.9	517.4
85°	1003.2	961.6	920.0	865.5	811.0	756.6	702.1	647.6	593.1	538.7	484.2
87.5°	957.2	916.7	876.1	823.4	770.7	717.9	665.2	612.5	559.8	507.0	454.3
90°	918.3	879.5	840.7	789.6	738.5	687.4	636.3	585.1	534.0	482.9	431.8
92.5°	884.8	847.6	810.4	760.8	711.2	661.6	612.0	562.4	512.8	463.2	413.6
95°	853.1	817.1	781.2	732.9	684.6	636.2	587.9	539.6	491.3	442.9	394.6
97.5°	821.8	786.9	752.0	705.0	657.9	610.9	563.8	516.8	469.7	422.7	375.6
100°	789.7	755.8	721.8	676.0	630.2	584.5	538.7	492.9	447.1	401.4	355.6
102.5°	758.0	724.8	691.5	647.0	602.5	558.0	513.5	469.0	424.5	380.0	335.5
105°	727.0	694.6	662.3	618.7	575.1	531.6	488.0	444.4	400.8	357.3	313.7
107.5°	695.7	664.4	633.1	590.7	548.3	505.9	463.5	421.0	378.6	336.2	293.8
110°	663.9	633.9	603.9	562.4	520.9	479.4	437.9	396.5	355.0	313.5	272.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	630.3	601.5	572.6	532.4	492.2	452.0	411.8	371.5	331.3	291.1	250.9
115°	595.9	568.1	540.3	501.6	462.9	424.2	385.5	346.7	308.0	269.3	230.6
117.5°	562.5	535.8	509.0	471.7	434.4	397.0	359.7	322.4	285.1	247.7	210.4
120°	527.3	501.4	475.6	440.0	404.4	368.9	333.3	297.7	262.1	226.6	191.0
122.5°	490.0	465.1	440.2	406.4	372.5	338.7	304.8	271.0	237.1	203.3	169.4
125°	452.7	428.7	404.7	372.9	341.2	309.4	277.7	245.9	214.2	182.4	150.7
127.5°	416.0	393.1	370.3	340.5	310.7	280.9	251.1	221.4	191.6	161.8	132.0
130°	379.8	358.3	336.9	309.0	281.0	253.1	225.2	197.2	169.3	141.4	113.4
132.5°	343.1	323.3	303.5	277.5	251.6	225.6	199.7	173.7	147.8	121.8	95.9
135°	308.3	289.7	271.2	247.3	223.4	199.6	175.7	151.8	127.9	104.1	80.2
137.5°	270.7	253.2	235.7	214.3	192.8	171.4	150.0	128.5	107.1	85.7	64.2
140°	236.1	219.7	203.4	184.2	164.9	145.7	126.4	107.2	87.9	68.7	49.4
142.5°	202.8	187.9	173.1	156.2	139.3	122.4	105.5	88.5	71.6	54.7	37.8
145°	170.8	157.3	143.9	129.5	115.2	100.8	86.4	72.1	57.7	43.3	29.0
147.5°	139.4	127.6	115.8	104.1	92.4	80.7	69.0	57.2	45.5	33.8	22.1
150°	109.5	99.1	88.7	79.8	70.8	61.9	53.0	44.0	35.1	26.2	17.2
152.5°	81.4	72.5	63.6	57.1	50.6	44.1	37.6	31.2	24.7	18.2	11.7
155°	56.3	49.0	41.7	37.4	33.1	28.8	24.5	20.3	16.0	11.7	7.4
157.5°	34.3	28.6	22.9	20.6	18.3	16.0	13.7	11.3	9.0	6.7	4.4
160°	19.5	16.0	12.5	11.2	9.9	8.7	7.4	6.1	4.8	3.6	2.3
162.5°	9.5	7.9	6.3	5.7	5.1	4.5	3.9	3.4	2.8	2.2	1.6
165°	4.3	3.7	3.1	2.9	2.6	2.4	2.2	1.9	1.7	1.5	1.2
167.5°	0.5	0.2	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
170°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
177.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1132.7	1135.5	1138.3	1141.1	1143.9	1146.6	1149.4	1152.2	1155.0	1157.8	1157.4
5°	1122.3	1125.7	1129.0	1132.4	1135.7	1139.1	1142.4	1145.8	1149.1	1152.5	1153.1
7.5°	1109.8	1113.6	1117.4	1121.3	1125.1	1128.9	1132.7	1136.6	1140.4	1144.2	1145.7
10°	1094.1	1098.2	1102.2	1106.3	1110.3	1114.4	1118.4	1122.5	1126.5	1130.6	1133.3
12.5°	1077.4	1081.7	1086.0	1090.3	1094.6	1098.8	1103.1	1107.4	1111.7	1116.0	1119.7
15°	1060.8	1064.7	1068.7	1072.6	1076.5	1080.5	1084.4	1088.3	1092.3	1096.2	1101.2
17.5°	1042.0	1045.7	1049.4	1053.1	1056.8	1060.6	1064.3	1068.0	1071.7	1075.4	1081.7
20°	1022.2	1025.1	1028.0	1030.9	1033.8	1036.6	1039.5	1042.4	1045.3	1048.2	1056.2
22.5°	1003.4	1005.3	1007.1	1009.0	1010.8	1012.7	1014.5	1016.4	1018.2	1020.1	1029.5
25°	983.6	984.2	984.8	985.3	985.9	986.5	987.1	987.6	988.2	988.8	999.9
27.5°	964.8	963.9	963.0	962.0	961.1	960.2	959.3	958.3	957.4	956.5	969.5
30°	948.1	945.1	942.1	939.1	936.1	933.0	930.0	927.0	924.0	921.0	936.1
32.5°	934.6	928.8	923.0	917.2	911.4	905.6	899.8	894.0	888.2	882.4	900.1
35°	920.0	911.4	902.8	894.3	885.7	877.1	868.5	860.0	851.4	842.8	863.2
37.5°	905.3	893.8	882.4	870.9	859.4	848.0	836.5	825.0	813.6	802.1	825.5
40°	890.7	876.0	861.3	846.6	831.9	817.1	802.4	787.7	773.0	758.3	785.0
42.5°	874.1	856.5	838.9	821.2	803.6	786.0	768.4	750.7	733.1	715.5	745.3
45°	856.3	835.7	815.1	794.4	773.8	753.2	732.6	711.9	691.3	670.7	703.7
47.5°	838.6	815.0	791.3	767.7	744.0	720.4	696.7	673.1	649.4	625.8	662.0
50°	818.8	792.4	766.0	739.5	713.1	686.7	660.3	633.8	607.4	581.0	620.1
52.5°	796.9	767.8	738.7	709.6	680.5	651.5	622.4	593.3	564.2	535.1	577.2
55°	775.0	743.2	711.5	679.7	648.0	616.2	584.5	552.7	521.0	489.2	534.2
57.5°	753.1	718.8	684.5	650.2	615.9	581.5	547.2	512.9	478.6	444.3	491.8
60°	730.1	693.2	656.4	619.5	582.7	545.8	509.0	472.1	435.3	398.4	448.5
62.5°	706.1	666.9	627.8	588.6	549.4	510.3	471.1	431.9	392.8	353.6	406.0
65°	680.1	638.8	597.6	556.3	515.0	473.8	432.5	391.2	350.0	308.7	363.1
67.5°	651.9	609.0	566.1	523.3	480.4	437.5	394.6	351.8	308.9	266.0	322.2
70°	622.7	578.1	533.5	488.8	444.2	399.6	355.0	310.3	265.7	221.1	279.0
72.5°	594.5	548.8	503.2	457.5	411.9	366.2	320.6	274.9	229.3	183.6	242.4
75°	558.0	512.1	466.2	420.3	374.4	328.6	282.7	236.8	190.9	145.0	204.6
77.5°	526.7	480.3	434.0	387.6	341.3	294.9	248.6	202.2	155.9	109.5	169.4
80°	493.4	447.0	400.7	354.3	307.9	261.6	215.2	168.8	122.5	76.1	136.3
82.5°	461.0	415.1	369.2	323.3	277.4	231.6	185.7	139.8	93.9	48.0	107.5
85°	429.7	384.7	339.8	294.8	249.8	204.9	159.9	114.9	70.0	25.0	83.5
87.5°	401.6	357.9	314.2	270.5	226.8	183.1	139.4	95.7	52.0	8.3	65.3
90°	380.7	338.5	296.3	254.1	211.9	169.8	127.6	85.4	43.2	1.0	55.9
92.5°	364.0	323.7	283.3	243.0	202.7	162.3	122.0	81.7	41.3	1.0	53.9
95°	346.3	307.9	269.6	231.2	192.8	154.5	116.1	77.7	39.4	1.0	51.8
97.5°	328.6	292.2	255.8	219.4	183.0	146.6	110.2	73.8	37.4	1.0	49.6
100°	309.8	275.5	241.2	206.9	172.6	138.2	103.9	69.6	35.3	1.0	47.4
102.5°	291.0	258.8	226.6	194.3	162.1	129.9	97.7	65.4	33.2	1.0	45.0
105°	270.1	240.2	210.3	180.4	150.5	120.6	90.7	60.8	30.9	1.0	42.7
107.5°	251.4	223.6	195.8	167.9	140.1	112.3	84.5	56.6	28.8	1.0	40.3
110°	230.5	205.0	179.5	154.0	128.5	103.0	77.5	52.0	26.5	1.0	37.9



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	210.7	187.4	164.1	140.8	117.5	94.2	70.9	47.6	24.3	1.0	35.3
115°	191.9	170.7	149.5	128.3	107.1	85.8	64.6	43.4	22.2	1.0	32.5
117.5°	173.1	154.0	134.9	115.7	96.6	77.5	58.4	39.2	20.1	1.0	29.9
120°	155.4	138.2	121.1	103.9	86.8	69.6	52.5	35.3	18.2	1.0	26.6
122.5°	135.6	120.6	105.7	90.7	75.8	60.8	45.9	30.9	16.0	1.0	24.0
125°	118.9	105.8	92.7	79.6	66.5	53.4	40.3	27.2	14.1	1.0	21.1
127.5°	102.2	91.0	79.7	68.5	57.2	46.0	34.7	23.5	12.2	1.0	17.9
130°	85.5	76.1	66.7	57.3	47.9	38.6	29.2	19.8	10.4	1.0	14.9
132.5°	69.9	62.4	54.8	47.3	39.8	32.2	24.7	17.2	9.6	2.1	13.2
135°	56.3	50.3	44.3	38.2	32.2	26.2	20.2	14.1	8.1	2.1	10.8
137.5°	42.8	38.3	33.8	29.2	24.7	20.2	15.7	11.1	6.6	2.1	8.5
140°	30.2	27.1	24.0	20.8	17.7	14.6	11.5	8.3	5.2	2.1	6.6
142.5°	20.9	18.8	16.7	14.6	12.5	10.5	8.4	6.3	4.2	2.1	5.3
145°	14.6	13.2	11.8	10.4	9.0	7.7	6.3	4.9	3.5	2.1	4.3
147.5°	10.4	9.5	8.6	7.6	6.7	5.8	4.9	3.9	3.0	2.1	3.6
150°	8.3	7.6	6.9	6.2	5.5	4.9	4.2	3.5	2.8	2.1	3.1
152.5°	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.8	2.4	2.1	2.8
155°	3.1	3.0	2.9	2.8	2.7	2.5	2.4	2.3	2.2	2.1	2.6
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3
160°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.2
162.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.1
165°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.0
167.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
170°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
172.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
175°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
177.5°	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	1.9
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: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1157.1	1156.7	1156.4	1156.0	1155.7	1155.3	1155.0	1154.6	1155.2	1155.8	1156.3
5°	1153.7	1154.3	1154.9	1155.4	1156.0	1156.6	1157.2	1157.8	1159.3	1160.8	1162.3
7.5°	1147.2	1148.7	1150.2	1151.8	1153.3	1154.8	1156.3	1157.8	1160.6	1163.4	1166.1
10°	1135.9	1138.6	1141.3	1143.9	1146.6	1149.3	1151.9	1154.6	1158.7	1162.7	1166.8
12.5°	1123.4	1127.1	1130.8	1134.6	1138.3	1142.0	1145.7	1149.4	1155.1	1160.8	1166.4
15°	1106.2	1111.2	1116.2	1121.1	1126.1	1131.1	1136.1	1141.1	1148.9	1156.6	1164.4
17.5°	1087.9	1094.2	1100.4	1106.7	1112.9	1119.2	1125.4	1131.7	1142.0	1152.3	1162.6
20°	1064.2	1072.2	1080.2	1088.2	1096.2	1104.2	1112.2	1120.2	1133.6	1147.1	1160.5
22.5°	1038.9	1048.3	1057.7	1067.0	1076.4	1085.8	1095.2	1104.6	1122.1	1139.6	1157.1
25°	1011.0	1022.2	1033.3	1044.4	1055.5	1066.7	1077.8	1088.9	1110.7	1132.5	1154.3
27.5°	982.5	995.4	1008.4	1021.4	1034.4	1047.3	1060.3	1073.3	1099.1	1125.0	1150.8
30°	951.1	966.2	981.3	996.3	1011.4	1026.5	1041.5	1056.6	1086.5	1116.4	1146.3
32.5°	917.9	935.6	953.3	971.1	988.8	1006.5	1024.3	1042.0	1075.3	1108.5	1141.8
35°	883.6	904.0	924.4	944.7	965.1	985.5	1005.9	1026.3	1063.0	1099.8	1136.5
37.5°	848.9	872.3	895.7	919.2	942.6	966.0	989.4	1012.8	1052.5	1092.3	1132.0
40°	811.6	838.3	864.9	891.6	918.2	944.9	971.5	998.2	1041.0	1083.7	1126.5
42.5°	775.1	804.9	834.7	864.4	894.2	924.0	953.8	983.6	1029.1	1074.7	1120.2
45°	736.7	769.8	802.8	835.8	868.8	901.9	934.9	967.9	1016.2	1064.6	1112.9
47.5°	698.1	734.3	770.4	806.6	842.7	878.9	915.0	951.2	1002.1	1053.0	1103.8
50°	659.1	698.2	737.2	776.3	815.3	854.4	893.4	932.5	985.9	1039.3	1092.8
52.5°	619.2	661.3	703.4	745.4	787.5	829.6	871.6	913.7	969.4	1025.2	1080.9
55°	579.1	624.1	669.1	714.0	759.0	804.0	848.9	893.9	951.8	1009.8	1067.7
57.5°	539.3	586.9	634.4	681.9	729.4	777.0	824.5	872.0	932.3	992.5	1052.8
60°	498.5	548.6	598.7	648.7	698.8	748.9	798.9	849.0	911.5	973.9	1036.4
62.5°	458.4	510.7	563.1	615.5	667.9	720.2	772.6	825.0	889.7	954.3	1019.0
65°	417.4	471.8	526.1	580.5	634.8	689.2	743.5	797.9	864.8	931.6	998.5
67.5°	378.4	434.6	490.8	547.0	603.2	659.4	715.6	771.8	840.5	909.3	978.0
70°	337.0	394.9	452.9	510.8	568.8	626.7	684.7	742.6	813.0	883.3	953.7
72.5°	301.1	359.9	418.6	477.4	536.1	594.9	653.6	712.4	783.8	855.2	926.6
75°	264.1	323.7	383.3	442.8	502.4	562.0	621.5	681.1	753.2	825.3	897.4
77.5°	229.3	289.3	349.2	409.1	469.0	529.0	588.9	648.8	721.0	793.2	865.4
80°	196.4	256.6	316.7	376.9	437.0	497.2	557.3	617.5	689.2	761.0	832.7
82.5°	166.9	226.4	285.8	345.3	404.7	464.2	523.6	583.1	654.5	725.9	797.3
85°	142.1	200.6	259.1	317.7	376.2	434.7	493.3	551.8	622.1	692.5	762.8
87.5°	122.3	179.4	236.4	293.4	350.4	407.5	464.5	521.5	590.6	659.7	728.7
90°	110.9	165.8	220.7	275.7	330.6	385.5	440.5	495.4	563.1	630.8	698.5
92.5°	106.7	159.6	212.4	265.3	318.1	371.0	423.8	476.7	543.0	609.3	675.6
95°	102.5	153.3	204.1	254.8	305.6	356.4	407.1	457.9	523.1	588.4	653.6
97.5°	98.1	146.7	195.3	243.8	292.4	341.0	389.5	438.1	502.4	566.7	631.1
100°	93.7	140.1	186.5	232.8	279.2	325.6	371.9	418.3	481.6	544.8	608.1
102.5°	89.1	133.1	177.2	221.2	265.3	309.3	353.4	397.4	459.4	521.4	583.4
105°	84.4	126.2	167.9	209.6	251.3	293.1	334.8	376.5	437.2	498.0	558.7
107.5°	79.6	118.9	158.2	197.4	236.7	276.0	315.3	354.6	414.1	473.5	533.0
110°	74.7	111.6	148.4	185.3	222.1	259.0	295.8	332.7	390.5	448.4	506.2



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	69.6	103.9	138.2	172.6	206.9	241.2	275.5	309.8	366.1	422.4	478.8
115°	64.0	95.6	127.1	158.6	190.1	221.7	253.2	284.7	339.5	394.3	449.2
117.5°	58.7	87.6	116.5	145.3	174.2	203.1	231.9	260.8	313.9	367.0	420.0
120°	52.2	77.9	103.5	129.1	154.7	180.4	206.0	231.6	283.4	335.2	387.0
122.5°	46.9	69.9	92.8	115.8	138.7	161.7	184.6	207.6	257.3	307.0	356.7
125°	41.1	61.2	81.2	101.3	121.3	141.4	161.4	181.5	229.0	276.5	324.0
127.5°	34.8	51.8	68.7	85.6	102.5	119.5	136.4	153.3	198.2	243.0	287.9
130°	28.8	42.7	56.6	70.6	84.5	98.4	112.3	126.2	166.9	207.6	248.2
132.5°	24.3	35.5	46.6	57.7	68.8	80.0	91.1	102.2	138.7	175.2	211.7
135°	19.5	28.2	36.9	45.5	54.2	62.9	71.6	80.3	113.0	145.7	178.3
137.5°	14.9	21.2	27.6	34.0	40.4	46.7	53.1	59.5	88.7	117.9	147.1
140°	11.1	15.7	20.2	24.7	29.2	33.8	38.3	42.8	68.4	94.0	119.6
142.5°	8.6	11.8	15.1	18.3	21.6	24.8	28.1	31.3	53.0	74.6	96.3
145°	6.5	8.7	10.9	13.1	15.3	17.5	19.7	21.9	40.0	58.1	76.1
147.5°	5.1	6.6	8.1	9.6	11.1	12.6	14.1	15.6	30.1	44.6	59.1
150°	4.2	5.2	6.3	7.3	8.4	9.4	10.5	11.5	22.6	33.7	44.9
152.5°	3.5	4.2	4.9	5.5	6.2	6.9	7.6	8.3	16.3	24.3	32.3
155°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	11.2	16.0	20.9
157.5°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	7.2	10.2	13.2
160°	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	4.6	6.1	7.6
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7	3.3	3.8
165°	1.9	1.7	1.6	1.5	1.4	1.2	1.1	1.0	1.2	1.5	1.7
167.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
170°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
172.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
175°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0
177.5°	1.6	1.4	1.2	0.9	0.7	0.5	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: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1156.9	1157.5	1158.1	1158.6	1159.2	1159.8	1160.0	1160.3	1160.5	1160.7	1161.0
5°	1163.8	1165.3	1166.8	1168.3	1169.8	1171.3	1172.2	1173.2	1174.1	1175.0	1176.0
7.5°	1168.9	1171.7	1174.5	1177.2	1180.0	1182.8	1184.7	1186.5	1188.4	1190.2	1192.1
10°	1170.8	1174.9	1178.9	1183.0	1187.0	1191.1	1194.5	1197.8	1201.2	1204.6	1207.9
12.5°	1172.1	1177.8	1183.5	1189.1	1194.8	1200.5	1205.7	1210.9	1216.2	1221.4	1226.6
15°	1172.2	1179.9	1187.7	1195.5	1203.2	1211.0	1218.4	1225.8	1233.2	1240.6	1248.1
17.5°	1172.9	1183.3	1193.6	1203.9	1214.2	1224.5	1234.8	1245.1	1255.4	1265.7	1276.1
20°	1174.0	1187.4	1200.9	1214.3	1227.8	1241.2	1254.3	1267.4	1280.5	1293.6	1306.7
22.5°	1174.6	1192.1	1209.6	1227.1	1244.6	1262.1	1277.4	1292.7	1308.0	1323.3	1338.5
25°	1176.1	1197.8	1219.6	1241.4	1263.2	1285.0	1302.2	1319.3	1336.5	1353.6	1370.8
27.5°	1176.7	1202.5	1228.4	1254.2	1280.1	1305.9	1324.9	1343.9	1362.9	1381.9	1400.9
30°	1176.2	1206.1	1236.0	1265.9	1295.8	1325.7	1346.4	1367.2	1387.9	1408.7	1429.4
32.5°	1175.0	1208.3	1241.5	1274.8	1308.0	1341.3	1364.1	1387.0	1409.8	1432.6	1455.5
35°	1173.3	1210.0	1246.8	1283.5	1320.3	1357.0	1381.9	1406.8	1431.7	1456.6	1481.6
37.5°	1171.8	1211.5	1251.3	1291.0	1330.8	1370.5	1397.6	1424.7	1451.9	1479.0	1506.1
40°	1169.3	1212.0	1254.8	1297.6	1340.3	1383.1	1412.3	1441.5	1470.7	1499.9	1529.1
42.5°	1165.8	1211.3	1256.9	1302.4	1348.0	1393.5	1425.1	1456.8	1488.4	1520.0	1551.7
45°	1161.2	1209.6	1257.9	1306.2	1354.6	1402.9	1436.9	1470.8	1504.8	1538.7	1572.7
47.5°	1154.7	1205.6	1256.5	1307.3	1358.2	1409.1	1445.7	1482.3	1519.0	1555.6	1592.2
50°	1146.2	1199.6	1253.0	1306.5	1359.9	1413.3	1452.7	1492.1	1531.5	1570.9	1610.3
52.5°	1136.7	1192.4	1248.2	1303.9	1359.7	1415.4	1457.7	1500.0	1542.3	1584.6	1626.9
55°	1125.7	1183.6	1241.6	1299.5	1357.5	1415.4	1460.4	1505.3	1550.3	1595.3	1640.2
57.5°	1113.0	1173.3	1233.5	1293.8	1354.0	1414.3	1461.8	1509.3	1556.9	1604.4	1651.9
60°	1098.9	1161.3	1223.8	1286.3	1348.7	1411.2	1460.9	1510.6	1560.4	1610.1	1659.8
62.5°	1083.7	1148.3	1213.0	1277.7	1342.3	1407.0	1458.7	1510.4	1562.1	1613.8	1665.4
65°	1065.4	1132.2	1199.1	1266.0	1332.8	1399.7	1452.9	1506.1	1559.3	1612.5	1665.7
67.5°	1046.7	1115.5	1184.2	1252.9	1321.7	1390.4	1444.7	1499.1	1553.4	1607.8	1662.1
70°	1024.0	1094.4	1164.7	1235.1	1305.4	1375.8	1431.2	1486.6	1542.0	1597.4	1652.7
72.5°	998.0	1069.3	1140.7	1212.1	1283.5	1354.9	1411.0	1467.1	1523.2	1579.3	1635.3
75°	969.5	1041.5	1113.6	1185.7	1257.8	1329.9	1386.5	1443.0	1499.6	1556.1	1612.7
77.5°	937.6	1009.8	1082.0	1154.2	1226.4	1298.6	1355.2	1411.7	1468.3	1524.8	1581.4
80°	904.4	976.2	1047.9	1119.6	1191.4	1263.1	1319.0	1374.8	1430.7	1486.5	1542.4
82.5°	868.7	940.0	1011.4	1082.8	1154.2	1225.6	1280.6	1335.7	1390.7	1445.8	1500.8
85°	833.2	903.5	973.9	1044.2	1114.6	1184.9	1238.9	1292.9	1346.9	1400.9	1454.9
87.5°	797.8	866.9	936.0	1005.0	1074.1	1143.2	1196.0	1248.9	1301.7	1354.6	1407.4
90°	766.2	833.8	901.5	969.2	1036.9	1104.6	1156.2	1207.7	1259.3	1310.9	1362.4
92.5°	741.9	808.1	874.4	940.7	1007.0	1073.3	1123.5	1173.7	1223.8	1274.0	1324.2
95°	718.9	784.1	849.4	914.6	979.9	1045.1	1094.6	1144.1	1193.6	1243.1	1292.5
97.5°	695.4	759.7	824.0	888.4	952.7	1017.0	1064.6	1112.2	1159.9	1207.5	1255.1
100°	671.4	734.6	797.9	861.2	924.4	987.7	1034.2	1080.7	1127.1	1173.6	1220.1
102.5°	645.4	707.4	769.4	831.4	893.4	955.4	1001.2	1047.0	1092.7	1138.5	1184.3
105°	619.4	680.2	740.9	801.6	862.4	923.1	968.1	1013.0	1058.0	1103.0	1147.9
107.5°	592.4	651.9	711.3	770.8	830.2	889.7	933.7	977.8	1021.8	1065.9	1109.9
110°	564.0	621.9	679.7	737.5	795.4	853.2	896.1	939.0	981.8	1024.7	1067.6



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	535.1	591.4	647.7	704.1	760.4	816.7	858.5	900.4	942.2	984.0	1025.9
115°	504.0	558.8	613.6	668.5	723.3	778.1	818.7	859.2	899.8	940.4	980.9
117.5°	473.1	526.2	579.3	632.3	685.4	738.5	777.7	816.8	856.0	895.2	934.3
120°	438.8	490.6	542.4	594.2	646.0	697.8	735.6	773.4	811.1	848.9	886.7
122.5°	406.4	456.2	505.9	555.6	605.3	655.0	691.2	727.3	763.5	799.6	835.8
125°	371.5	419.1	466.6	514.1	561.6	609.1	643.8	678.4	713.1	747.7	782.4
127.5°	332.7	377.6	422.4	467.3	512.1	557.0	591.0	624.9	658.9	692.8	726.8
130°	288.9	329.6	370.3	410.9	451.6	492.3	526.6	560.9	595.2	629.5	663.8
132.5°	248.2	284.8	321.3	357.8	394.3	430.8	464.9	498.9	533.0	567.1	601.1
135°	211.0	243.7	276.4	309.0	341.7	374.4	407.3	440.2	473.2	506.1	539.0
137.5°	176.3	205.5	234.7	263.9	293.1	322.3	352.8	383.3	413.7	444.2	474.7
140°	145.2	170.9	196.5	222.1	247.7	273.3	300.6	328.0	355.3	382.7	410.0
142.5°	118.0	139.6	161.3	183.0	204.6	226.3	250.6	275.0	299.3	323.7	348.0
145°	94.2	112.3	130.4	148.4	166.5	184.6	205.8	227.0	248.2	269.4	290.7
147.5°	73.6	88.0	102.5	117.0	131.5	146.0	164.3	182.6	200.9	219.2	237.6
150°	56.0	67.1	78.2	89.4	100.5	111.6	127.0	142.4	157.8	173.2	188.7
152.5°	40.3	48.3	56.3	64.3	72.3	80.3	92.8	105.3	117.9	130.4	142.9
155°	25.8	30.6	35.5	40.4	45.2	50.1	60.4	70.7	81.0	91.3	101.7
157.5°	16.2	19.3	22.3	25.3	28.3	31.3	38.8	46.4	53.9	61.4	69.0
160°	9.1	10.7	12.2	13.7	15.2	16.7	21.3	26.0	30.6	35.2	39.9
162.5°	4.4	5.0	5.6	6.1	6.7	7.3	9.8	12.4	14.9	17.5	20.0
165°	1.9	2.2	2.4	2.6	2.9	3.1	4.0	5.0	5.9	6.8	7.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLEDD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1161.2	1161.4	1161.7	1161.9	1160.5	1159.1	1157.7	1156.3	1155.0	1153.6	1152.2
5°	1176.9	1177.8	1178.8	1179.7	1179.3	1179.0	1178.6	1178.3	1177.9	1177.6	1177.2
7.5°	1193.9	1195.8	1197.6	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5
10°	1211.3	1214.7	1218.0	1221.4	1221.9	1222.3	1222.8	1223.3	1223.7	1224.2	1224.7
12.5°	1231.8	1237.1	1242.3	1247.5	1248.7	1249.8	1251.0	1252.1	1253.3	1254.4	1255.6
15°	1255.5	1262.9	1270.3	1277.7	1280.0	1282.3	1284.7	1287.0	1289.3	1291.6	1294.0
17.5°	1286.4	1296.7	1307.0	1317.3	1320.8	1324.3	1327.7	1331.2	1334.7	1338.2	1341.6
20°	1319.8	1332.9	1346.0	1359.1	1363.4	1367.7	1372.0	1376.3	1380.5	1384.8	1389.1
22.5°	1353.8	1369.1	1384.4	1399.7	1404.5	1409.2	1414.0	1418.7	1423.5	1428.2	1433.0
25°	1387.9	1405.1	1422.2	1439.4	1444.8	1450.3	1455.7	1461.2	1466.6	1472.1	1477.5
27.5°	1419.9	1438.9	1457.9	1476.9	1483.2	1489.4	1495.7	1502.0	1508.2	1514.5	1520.8
30°	1450.2	1470.9	1491.7	1512.4	1519.7	1527.0	1534.3	1541.6	1548.9	1556.2	1563.5
32.5°	1478.3	1501.1	1524.0	1546.8	1555.1	1563.5	1571.8	1580.2	1588.5	1596.9	1605.2
35°	1506.5	1531.4	1556.3	1581.2	1590.6	1600.0	1609.4	1618.8	1628.1	1637.5	1646.9
37.5°	1533.2	1560.4	1587.5	1614.6	1625.0	1635.5	1645.9	1656.3	1666.8	1677.2	1687.6
40°	1558.3	1587.5	1616.7	1645.9	1657.5	1669.1	1680.7	1692.3	1703.8	1715.4	1727.0
42.5°	1583.3	1614.9	1646.6	1678.2	1691.0	1703.7	1716.5	1729.2	1742.0	1754.7	1767.5
45°	1606.6	1640.6	1674.5	1708.5	1722.4	1736.3	1750.2	1764.1	1778.0	1791.9	1805.8
47.5°	1628.8	1665.5	1702.1	1738.7	1753.9	1769.1	1784.3	1799.5	1814.6	1829.8	1845.0
50°	1649.7	1689.1	1728.5	1767.9	1784.6	1801.3	1818.0	1834.7	1851.3	1868.0	1884.7
52.5°	1669.2	1711.5	1753.8	1796.1	1813.8	1831.6	1849.3	1867.0	1884.8	1902.5	1920.2
55°	1685.2	1730.2	1775.1	1820.1	1838.9	1857.7	1876.4	1895.2	1914.0	1932.8	1951.5
57.5°	1699.4	1747.0	1794.5	1842.0	1861.6	1881.2	1900.8	1920.4	1939.9	1959.5	1979.1
60°	1709.5	1759.3	1809.0	1858.7	1879.2	1899.7	1920.2	1940.7	1961.3	1981.8	2002.3
62.5°	1717.1	1768.8	1820.5	1872.2	1893.2	1914.2	1935.1	1956.1	1977.1	1998.1	2019.0
65°	1718.9	1772.1	1825.3	1878.5	1899.8	1921.1	1942.5	1963.8	1985.1	2006.4	2027.8
67.5°	1716.5	1770.8	1825.2	1879.5	1901.2	1922.9	1944.5	1966.2	1987.9	2009.6	2031.2
70°	1708.1	1763.5	1818.9	1874.3	1896.0	1917.7	1939.3	1961.0	1982.7	2004.4	2026.0
72.5°	1691.4	1747.5	1803.6	1859.7	1881.5	1903.3	1925.1	1946.9	1968.6	1990.4	2012.2
75°	1669.2	1725.8	1782.3	1838.9	1860.3	1881.8	1903.2	1924.6	1946.1	1967.5	1988.9
77.5°	1637.9	1694.5	1751.0	1807.6	1828.8	1850.0	1871.2	1892.4	1913.6	1934.8	1956.0
80°	1598.2	1654.1	1709.9	1765.8	1786.9	1808.0	1829.1	1850.2	1871.3	1892.4	1913.5
82.5°	1555.9	1610.9	1666.0	1721.0	1741.6	1762.3	1782.9	1803.5	1824.2	1844.8	1865.4
85°	1508.9	1562.9	1616.9	1670.9	1691.3	1711.7	1732.1	1752.5	1772.9	1793.3	1813.7
87.5°	1460.3	1513.1	1566.0	1618.8	1638.8	1658.9	1678.9	1699.0	1719.0	1739.1	1759.1
90°	1414.0	1465.6	1517.1	1568.7	1588.4	1608.1	1627.8	1647.5	1667.2	1686.9	1706.6
92.5°	1374.4	1424.5	1474.7	1524.9	1544.1	1563.4	1582.6	1601.9	1621.1	1640.4	1659.6
95°	1342.0	1391.5	1441.0	1490.5	1508.6	1526.7	1544.7	1562.8	1580.9	1599.0	1617.0
97.5°	1302.7	1350.4	1398.0	1445.6	1463.7	1481.8	1499.9	1518.0	1536.0	1554.1	1572.2
100°	1266.6	1313.0	1359.5	1406.0	1423.5	1441.0	1458.5	1476.0	1493.5	1511.0	1528.5
102.5°	1230.1	1275.8	1321.6	1367.4	1384.4	1401.5	1418.5	1435.5	1452.6	1469.6	1486.6
105°	1192.9	1237.9	1282.8	1327.8	1344.5	1361.2	1377.9	1394.6	1411.2	1427.9	1444.6
107.5°	1154.0	1198.0	1242.1	1286.1	1302.4	1318.8	1335.1	1351.4	1367.8	1384.1	1400.4
110°	1110.5	1153.3	1196.2	1239.1	1255.3	1271.5	1287.8	1304.0	1320.2	1336.4	1352.7



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1067.7	1109.5	1151.4	1193.2	1209.0	1224.7	1240.5	1256.3	1272.0	1287.8	1303.6
115°	1021.5	1062.1	1102.6	1143.2	1158.5	1173.8	1189.1	1204.4	1219.6	1234.9	1250.2
117.5°	973.5	1012.7	1051.8	1091.0	1106.0	1120.9	1135.9	1150.8	1165.8	1180.7	1195.7
120°	924.5	962.2	1000.0	1037.8	1052.3	1066.8	1081.3	1095.8	1110.2	1124.7	1139.2
122.5°	871.9	908.1	944.2	980.4	994.5	1008.7	1022.8	1037.0	1051.1	1065.3	1079.4
125°	817.0	851.7	886.3	921.0	934.7	948.4	962.0	975.7	989.4	1003.1	1016.7
127.5°	760.7	794.7	828.6	862.6	875.5	888.3	901.2	914.1	926.9	939.8	952.7
130°	698.1	732.4	766.7	801.0	813.3	825.6	837.9	850.2	862.4	874.7	887.0
132.5°	635.2	669.3	703.3	737.4	749.2	761.0	772.9	784.7	796.5	808.3	820.2
135°	571.9	604.9	637.8	670.7	682.2	693.6	705.1	716.6	728.0	739.5	751.0
137.5°	505.2	535.6	566.1	596.6	608.1	619.6	631.0	642.5	654.0	665.5	676.9
140°	437.4	464.7	492.1	519.4	531.3	543.3	555.2	567.2	579.1	591.1	603.0
142.5°	372.4	396.7	421.1	445.4	457.7	470.0	482.2	494.5	506.8	519.1	531.3
145°	311.9	333.1	354.3	375.5	388.2	401.0	413.7	426.5	439.2	452.0	464.7
147.5°	255.9	274.2	292.5	310.8	323.6	336.3	349.1	361.8	374.6	387.3	400.1
150°	204.1	219.5	234.9	250.3	262.8	275.3	287.9	300.4	312.9	325.4	338.0
152.5°	155.4	168.0	180.5	193.0	204.9	216.9	228.8	240.7	252.7	264.6	276.5
155°	112.0	122.3	132.6	142.9	153.3	163.8	174.2	184.6	195.1	205.5	215.9
157.5°	76.5	84.0	91.6	99.1	108.0	116.9	125.9	134.8	143.7	152.6	161.6
160°	44.5	49.1	53.8	58.4	65.8	73.2	80.7	88.1	95.5	102.9	110.4
162.5°	22.6	25.1	27.7	30.2	35.2	40.2	45.2	50.2	55.1	60.1	65.1
165°	8.7	9.6	10.6	11.5	14.5	17.5	20.5	23.5	26.6	29.6	32.6
167.5°	1.4	1.6	1.9	2.1	3.4	4.7	5.9	7.2	8.5	9.8	11.0
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: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1143.2	1143.2
2.5°	1150.8	1149.4
5°	1176.9	1176.5
7.5°	1199.5	1199.5
10°	1225.1	1225.6
12.5°	1256.7	1257.9
15°	1296.3	1298.6
17.5°	1345.1	1348.6
20°	1393.4	1397.7
22.5°	1437.7	1442.5
25°	1483.0	1488.4
27.5°	1527.0	1533.3
30°	1570.8	1578.1
32.5°	1613.6	1621.9
35°	1656.3	1665.7
37.5°	1698.1	1708.5
40°	1738.6	1750.2
42.5°	1780.2	1793.0
45°	1819.7	1833.6
47.5°	1860.2	1875.4
50°	1901.4	1918.1
52.5°	1938.0	1955.7
55°	1970.3	1989.1
57.5°	1998.7	2018.3
60°	2022.8	2043.3
62.5°	2040.0	2061.0
65°	2049.1	2070.4
67.5°	2052.9	2074.6
70°	2047.7	2069.4
72.5°	2034.0	2055.8
75°	2010.4	2031.8
77.5°	1977.2	1998.4
80°	1934.6	1955.7
82.5°	1886.1	1906.7
85°	1834.1	1854.5
87.5°	1779.2	1799.2
90°	1726.3	1746.0
92.5°	1678.9	1698.1
95°	1635.1	1653.2
97.5°	1590.3	1608.4
100°	1546.0	1563.5
102.5°	1503.7	1520.7
105°	1461.3	1478.0
107.5°	1416.8	1433.1
110°	1368.9	1385.1



TEST NUMBER: P201368

CATALOG NUMBER: 4LBLED-LD4-10-ASYMW-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1319.3	1335.1
115°	1265.5	1280.8
117.5°	1210.6	1225.6
120°	1153.7	1168.2
122.5°	1093.6	1107.7
125°	1030.4	1044.1
127.5°	965.5	978.4
130°	899.3	911.6
132.5°	832.0	843.8
135°	762.4	773.9
137.5°	688.4	699.9
140°	615.0	626.9
142.5°	543.6	555.9
145°	477.5	490.2
147.5°	412.8	425.6
150°	350.5	363.0
152.5°	288.5	300.4
155°	226.4	236.8
157.5°	170.5	179.4
160°	117.8	125.2
162.5°	70.1	75.1
165°	35.6	38.6
167.5°	12.3	13.6
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)