

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: P201405

Luminaire Tested: **8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28233)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-10-ASYMW-UNV-L835-CD2-U
Description: 8 ft. Low Bay Linear, 7000 lm, Wht Asym lens, 3.5K
Light Source: (616) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
(OT50W01080CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10134.6 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.2 / 1.86
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

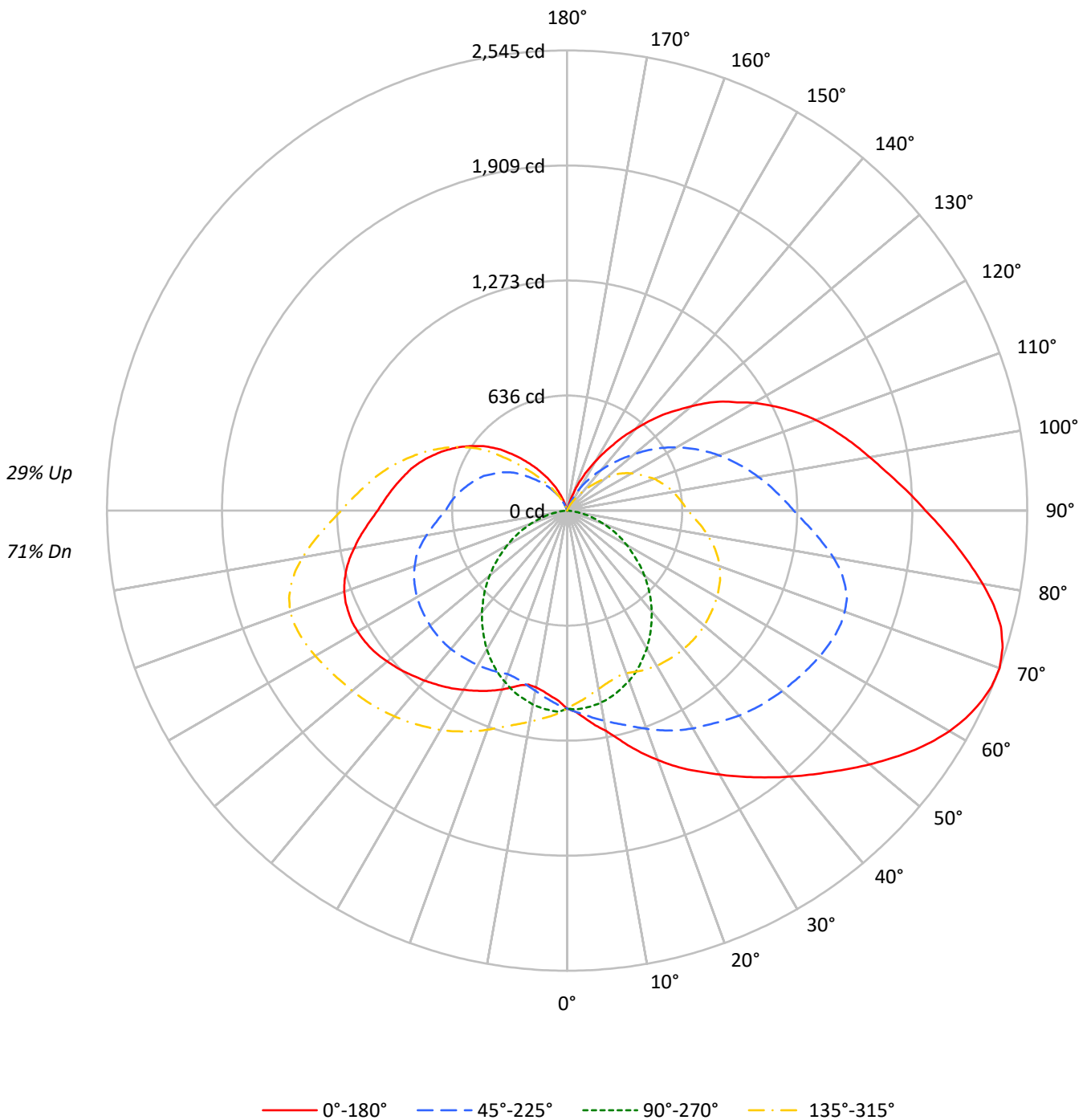
Input Watts (W): 75.28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	53	53	53	49	
2	86	76	67	60	81	71	64	57	63	57	51	55	50	46	48	44	40	40	40	40	36	
3	77	65	55	48	72	61	52	45	54	47	41	47	41	36	41	36	32	32	32	32	28	
4	70	56	46	39	65	53	44	37	47	39	33	41	35	30	35	30	26	26	26	26	23	
5	64	50	40	32	60	47	38	31	41	34	28	36	30	25	31	26	22	22	22	22	19	
6	59	44	34	27	55	42	33	26	37	29	24	32	26	21	28	23	19	19	19	19	16	
7	54	40	30	24	50	37	29	23	33	26	20	29	23	18	25	20	16	16	16	16	14	
8	50	36	27	21	47	34	25	20	30	23	18	26	20	16	23	18	14	14	14	14	12	
9	46	32	24	18	44	31	23	17	27	21	16	24	18	14	21	16	13	13	13	13	10	
10	43	30	22	16	41	28	21	15	25	19	14	22	17	13	20	15	11	11	11	11	9	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8821	8821	8821	8821
5°	8417	8850	7509	8946
10°	8298	8787	6654	8868
15°	8453	8659	6253	8741
20°	8662	8510	6214	8560
25°	8890	8314	6190	8366
30°	9122	8079	6192	8133
35°	9458	7789	6240	7846
40°	9878	7485	6311	7547
45°	10378	7154	6418	7198
50°	11017	6775	6550	6800
55°	11738	6290	6703	6344
60°	12456	5850	6828	5881
65°	13085	5388	6927	5352
70°	13559	4736	6990	4692
75°	13690	3924	6971	3870
80°	13429	2875	6879	2875
85°	13081	1411	6798	1546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.0
10°-20°	314.0	3.1
20°-30°	530.7	5.2
30°-40°	740.6	7.3
40°-50°	934.0	9.2
50°-60°	1096.7	10.8
60°-70°	1203.6	11.9
70°-80°	1193.2	11.8
80°-90°	1048.8	10.3
90°-100°	892.9	8.8
100°-110°	743.6	7.3
110°-120°	573.7	5.7
120°-130°	396.3	3.9
130°-140°	228.1	2.3
140°-150°	101.4	1.0
150°-160°	30.0	0.3
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	949.0	9.4
0°-40°	1689.7	16.7
0°-60°	3720.3	36.7
0°-90°	7166.0	70.7
90°-120°	2210.2	21.8
90°-150°	2936.0	29.0
90°-180°	2969.0	29.3
0°-180°	10134.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1095	1095	1095	1095	1095	
5°	1154	1097	1030	1109	1154	113
15°	1352	1045	1000	1055	1352	386
25°	1581	947	1101	952	1581	734
35°	1800	806	1188	812	1800	1135
45°	2045	644	1265	648	2045	1589
55°	2322	464	1326	468	2322	2082
65°	2520	298	1334	296	2520	2492
75°	2484	138	1265	136	2484	2609
85°	2156	20	1120	22	2156	1798
90°	1982	0	1047	0	1982	1088
95°	1832	0	994	2	1832	1470
105°	1581	0	893	2	1581	1674
115°	1330	0	769	2	1330	1321
125°	1051	0	622	2	1051	942
135°	749	0	449	2	749	581
145°	445	0	271	2	445	286
155°	206	0	122	2	206	99
165°	28	0	8	2	28	11
175°	0	0	0	0	0	0
180°	0	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°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1114.6	1114.4	1114.2	1113.9	1113.7	1113.5	1113.3	1113.0	1112.8	1112.6	1112.8
5°	1154.1	1152.8	1151.5	1150.1	1148.8	1147.5	1146.2	1144.8	1143.5	1142.2	1141.3
7.5°	1197.6	1195.4	1193.2	1191.0	1188.8	1186.6	1184.4	1182.2	1180.0	1177.8	1175.6
10°	1237.1	1234.2	1231.4	1228.5	1225.7	1222.8	1220.0	1217.1	1214.3	1211.4	1207.9
12.5°	1290.4	1286.2	1282.1	1277.9	1273.7	1269.6	1265.4	1261.2	1257.1	1252.9	1247.4
15°	1351.7	1346.9	1342.0	1337.2	1332.4	1327.5	1322.7	1317.9	1313.0	1308.2	1299.2
17.5°	1411.0	1405.5	1400.0	1394.5	1389.0	1383.6	1378.1	1372.6	1367.1	1361.6	1349.7
20°	1468.3	1461.5	1454.7	1447.9	1441.1	1434.2	1427.4	1420.6	1413.8	1407.0	1393.4
22.5°	1525.6	1517.7	1509.8	1501.9	1494.0	1486.1	1478.2	1470.3	1462.4	1454.5	1438.9
25°	1580.9	1572.3	1563.8	1555.2	1546.7	1538.1	1529.6	1521.0	1512.5	1503.9	1485.9
27.5°	1630.3	1621.5	1612.7	1604.0	1595.2	1586.4	1577.6	1568.9	1560.1	1551.3	1530.9
30°	1685.7	1675.8	1665.9	1656.0	1646.1	1636.3	1626.4	1616.5	1606.6	1596.7	1573.9
32.5°	1743.0	1731.8	1720.6	1709.4	1698.2	1687.0	1675.8	1664.6	1653.4	1642.2	1616.5
35°	1800.3	1788.0	1775.7	1763.4	1751.1	1738.8	1726.5	1714.2	1701.9	1689.6	1661.1
37.5°	1859.6	1846.0	1832.4	1818.8	1805.2	1791.5	1777.9	1764.3	1750.7	1737.1	1705.9
40°	1920.8	1905.9	1891.0	1876.0	1861.1	1846.2	1831.3	1816.3	1801.4	1786.5	1752.5
42.5°	1982.1	1965.9	1949.6	1933.4	1917.1	1900.9	1884.6	1868.4	1852.1	1835.9	1798.6
45°	2045.3	2027.7	2010.2	1992.6	1975.0	1957.5	1939.9	1922.3	1904.8	1887.2	1846.4
47.5°	2114.5	2095.0	2075.4	2055.9	2036.3	2016.8	1997.2	1977.7	1958.1	1938.6	1893.8
50°	2183.7	2162.4	2141.1	2119.8	2098.5	2077.2	2055.9	2034.6	2013.3	1992.0	1943.3
52.5°	2252.8	2230.0	2207.1	2184.3	2161.5	2138.6	2115.8	2093.0	2070.1	2047.3	1993.9
55°	2322.0	2297.6	2273.2	2248.9	2224.5	2200.1	2175.7	2151.4	2127.0	2102.6	2044.9
57.5°	2385.2	2360.0	2334.7	2309.5	2284.2	2259.0	2233.7	2208.5	2183.2	2158.0	2095.9
60°	2440.6	2414.7	2388.8	2362.9	2337.0	2311.0	2285.1	2259.2	2233.3	2207.4	2141.3
62.5°	2486.0	2459.7	2433.3	2407.0	2380.6	2354.3	2327.9	2301.6	2275.2	2248.9	2179.5
65°	2519.6	2493.3	2466.9	2440.6	2414.2	2387.9	2361.5	2335.2	2308.8	2282.5	2210.5
67.5°	2541.4	2514.8	2488.2	2461.7	2435.1	2408.5	2381.9	2355.4	2328.8	2302.2	2228.4
70°	2545.3	2519.0	2492.6	2466.3	2439.9	2413.6	2387.2	2360.9	2334.5	2308.2	2233.3
72.5°	2525.5	2499.6	2473.7	2447.8	2421.9	2396.0	2370.1	2344.2	2318.3	2292.4	2218.0
75°	2484.0	2458.8	2433.5	2408.3	2383.0	2357.8	2332.5	2307.3	2282.0	2256.8	2182.8
77.5°	2416.9	2392.5	2368.1	2343.8	2319.4	2295.0	2270.6	2246.3	2221.9	2197.5	2125.7
80°	2333.9	2310.4	2286.9	2263.4	2239.9	2216.4	2192.9	2169.4	2145.9	2122.4	2052.8
82.5°	2244.9	2222.1	2199.2	2176.4	2153.6	2130.7	2107.9	2085.1	2062.2	2039.4	1972.0
85°	2156.0	2133.6	2111.2	2088.8	2066.4	2044.0	2021.6	1999.2	1976.8	1954.4	1889.4
87.5°	2067.1	2044.7	2022.3	1999.9	1977.5	1955.1	1932.7	1910.3	1887.9	1865.5	1803.6
90°	1982.1	1960.6	1939.1	1917.5	1896.0	1874.5	1853.0	1831.4	1809.9	1788.4	1728.9
92.5°	1907.0	1886.6	1866.2	1845.7	1825.3	1804.9	1784.5	1764.0	1743.6	1723.2	1665.9
95°	1831.9	1812.4	1792.8	1773.3	1753.7	1734.2	1714.6	1695.1	1675.5	1656.0	1601.1
97.5°	1762.7	1744.0	1725.4	1706.7	1688.1	1669.4	1650.8	1632.1	1613.5	1594.8	1541.9
100°	1699.5	1681.1	1662.6	1644.2	1625.7	1607.3	1588.8	1570.4	1551.9	1533.5	1482.3
102.5°	1640.2	1622.6	1605.1	1587.5	1569.9	1552.4	1534.8	1517.2	1499.7	1482.1	1431.8
105°	1580.9	1563.8	1546.7	1529.5	1512.4	1495.3	1478.2	1461.0	1443.9	1426.8	1377.6
107.5°	1523.6	1505.8	1488.0	1470.3	1452.5	1434.7	1416.9	1399.2	1381.4	1363.6	1316.4
110°	1464.3	1446.5	1428.7	1411.0	1393.2	1375.4	1357.6	1339.9	1322.1	1304.3	1258.6



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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°	1399.1	1382.2	1365.3	1348.4	1331.5	1314.6	1297.7	1280.8	1263.9	1247.0	1202.4
115°	1330.0	1313.1	1296.2	1279.3	1262.4	1245.4	1228.5	1211.6	1194.7	1177.8	1135.6
117.5°	1260.8	1245.0	1229.2	1213.4	1197.6	1181.7	1165.9	1150.1	1134.3	1118.5	1077.4
120°	1191.6	1176.5	1161.3	1146.2	1131.0	1115.9	1100.7	1085.6	1070.4	1055.3	1015.8
122.5°	1114.6	1100.8	1086.9	1073.1	1059.3	1045.4	1031.6	1017.8	1003.9	990.1	952.1
125°	1051.3	1037.2	1023.2	1009.1	995.1	981.0	967.0	952.9	938.9	924.8	888.1
127.5°	978.2	964.8	951.4	938.0	924.6	911.3	897.9	884.5	871.1	857.7	822.6
130°	897.2	885.1	873.0	861.0	848.9	836.8	824.7	812.7	800.6	788.5	754.7
132.5°	820.1	808.9	797.7	786.5	775.3	764.1	752.9	741.7	730.5	719.3	687.7
135°	749.0	738.0	727.0	716.1	705.1	694.1	683.1	672.2	661.2	650.2	620.6
137.5°	669.9	659.8	649.7	639.6	629.5	619.4	609.3	599.2	589.1	579.0	552.7
140°	588.9	580.3	571.8	563.2	554.6	546.1	537.5	528.9	520.4	511.8	487.2
142.5°	521.7	512.7	503.7	494.7	485.7	476.7	467.7	458.7	449.7	440.7	419.8
145°	444.6	437.4	430.1	422.9	415.6	408.4	401.1	393.9	386.6	379.4	361.0
147.5°	379.4	373.0	366.7	360.3	353.9	347.6	341.2	334.8	328.5	322.1	306.1
150°	316.2	310.9	305.7	300.4	295.1	289.9	284.6	279.3	274.1	268.8	254.5
152.5°	258.9	254.3	249.7	245.1	240.5	235.8	231.2	226.6	222.0	217.4	204.9
155°	205.5	201.6	197.6	193.7	189.7	185.8	181.8	177.9	173.9	170.0	159.0
157.5°	156.1	152.4	148.6	144.9	141.2	137.4	133.7	130.0	126.2	122.5	113.5
160°	104.7	101.8	99.0	96.1	93.3	90.4	87.6	84.7	81.9	79.0	72.9
162.5°	59.3	57.3	55.3	53.4	51.4	49.4	47.4	45.5	43.5	41.5	38.2
165°	27.7	26.8	25.9	25.1	24.2	23.3	22.4	21.6	20.7	19.8	18.0
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



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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°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1113.0	1113.3	1113.5	1113.7	1113.9	1114.2	1114.4	1114.6	1112.6	1110.6	1108.7
5°	1140.4	1139.6	1138.7	1137.8	1136.9	1136.1	1135.2	1134.3	1131.0	1127.7	1124.4
7.5°	1173.4	1171.2	1169.0	1166.8	1164.6	1162.4	1160.2	1158.0	1152.7	1147.5	1142.2
10°	1204.4	1200.9	1197.4	1193.8	1190.3	1186.8	1183.3	1179.8	1172.6	1165.3	1158.1
12.5°	1241.9	1236.4	1230.9	1225.5	1220.0	1214.5	1209.0	1203.5	1193.6	1183.7	1173.9
15°	1290.2	1281.2	1272.2	1263.2	1254.2	1245.2	1236.2	1227.2	1214.7	1202.2	1189.7
17.5°	1337.9	1326.0	1314.2	1302.3	1290.5	1278.6	1266.8	1254.9	1238.9	1222.8	1206.8
20°	1379.8	1366.2	1352.6	1338.9	1325.3	1311.7	1298.1	1284.5	1264.7	1245.0	1225.2
22.5°	1423.3	1407.7	1392.1	1376.6	1361.0	1345.4	1329.8	1314.2	1290.5	1266.8	1243.0
25°	1467.9	1449.9	1431.9	1413.8	1395.8	1377.8	1359.8	1341.8	1314.4	1286.9	1259.5
27.5°	1510.5	1490.0	1469.6	1449.2	1428.8	1408.3	1387.9	1367.5	1336.3	1305.1	1274.0
30°	1551.0	1528.2	1505.4	1482.5	1459.7	1436.9	1414.0	1391.2	1356.5	1321.8	1287.1
32.5°	1590.8	1565.1	1539.4	1513.8	1488.1	1462.4	1436.7	1411.0	1373.5	1335.9	1298.4
35°	1632.5	1604.0	1575.4	1546.9	1518.3	1489.8	1461.2	1432.7	1391.9	1351.0	1310.2
37.5°	1674.7	1643.5	1612.3	1581.2	1550.0	1518.8	1487.6	1456.4	1412.1	1367.7	1323.4
40°	1718.4	1684.4	1650.4	1616.3	1582.3	1548.3	1514.2	1480.2	1432.3	1384.4	1336.6
42.5°	1761.2	1723.9	1686.6	1649.2	1611.9	1574.6	1537.2	1499.9	1448.5	1397.1	1345.8
45°	1805.5	1764.7	1723.9	1683.0	1642.2	1601.4	1560.5	1519.7	1464.8	1409.9	1355.0
47.5°	1849.0	1804.2	1759.4	1714.7	1669.9	1625.1	1580.3	1535.5	1477.3	1419.1	1360.9
50°	1894.5	1845.8	1797.0	1748.3	1699.5	1650.8	1602.0	1553.3	1491.4	1429.5	1367.5
52.5°	1940.6	1887.2	1833.9	1780.5	1727.2	1673.8	1620.5	1567.1	1501.7	1436.2	1370.8
55°	1987.1	1929.4	1871.6	1813.9	1756.1	1698.4	1640.6	1582.9	1514.0	1445.0	1376.1
57.5°	2033.7	1971.6	1909.4	1847.3	1785.1	1723.0	1660.8	1598.7	1526.0	1453.3	1380.7
60°	2075.2	2009.1	1943.0	1877.0	1810.9	1744.8	1678.7	1612.6	1536.2	1459.8	1383.3
62.5°	2110.1	2040.7	1971.3	1902.0	1832.6	1763.2	1693.8	1624.4	1544.5	1464.6	1384.6
65°	2138.5	2066.4	1994.4	1922.4	1850.4	1778.3	1706.3	1634.3	1550.6	1467.0	1383.3
67.5°	2154.6	2080.9	2007.1	1933.3	1859.5	1785.8	1712.0	1638.2	1551.5	1464.8	1378.0
70°	2158.4	2083.6	2008.7	1933.8	1858.9	1784.1	1709.2	1634.3	1544.7	1455.1	1365.5
72.5°	2143.5	2069.1	1994.6	1920.2	1845.7	1771.3	1696.8	1622.4	1530.8	1439.3	1347.7
75°	2108.8	2034.8	1960.8	1886.8	1812.8	1738.8	1664.8	1590.8	1499.2	1407.7	1316.1
77.5°	2053.9	1982.1	1910.3	1838.5	1766.7	1694.9	1623.1	1551.3	1460.2	1369.1	1277.9
80°	1983.2	1913.6	1844.0	1774.4	1704.8	1635.2	1565.6	1496.0	1406.6	1317.3	1227.9
82.5°	1904.6	1837.2	1769.8	1702.3	1634.9	1567.5	1500.1	1432.7	1346.4	1260.1	1173.8
85°	1824.4	1759.4	1694.4	1629.5	1564.5	1499.5	1434.5	1369.5	1286.1	1202.6	1119.2
87.5°	1741.7	1679.7	1617.8	1555.9	1494.0	1432.0	1370.1	1308.2	1227.8	1147.5	1067.1
90°	1669.4	1609.9	1550.4	1490.9	1431.4	1371.9	1312.4	1252.9	1175.4	1097.9	1020.4
92.5°	1608.6	1551.3	1494.0	1436.6	1379.3	1322.0	1264.7	1207.4	1132.3	1057.2	982.1
95°	1546.2	1491.3	1436.4	1381.6	1326.7	1271.8	1216.9	1162.0	1089.1	1016.2	943.3
97.5°	1489.0	1436.0	1383.1	1330.2	1277.3	1224.3	1171.4	1118.5	1046.9	975.3	903.8
100°	1431.2	1380.0	1328.9	1277.7	1226.6	1175.4	1124.3	1073.1	1003.5	933.9	864.3
102.5°	1381.5	1331.3	1281.0	1230.7	1180.4	1130.2	1079.9	1029.6	961.7	893.9	826.0
105°	1328.4	1279.2	1230.0	1180.9	1131.7	1082.5	1033.3	984.1	918.2	852.4	786.5
107.5°	1269.2	1222.0	1174.8	1127.5	1080.3	1033.1	985.9	938.7	874.6	810.5	746.3
110°	1212.9	1167.3	1121.6	1075.9	1030.2	984.6	938.9	893.2	831.1	768.9	706.8



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1157.8	1113.3	1068.7	1024.1	979.5	935.0	890.4	845.8	785.4	725.0	664.7
115°	1093.5	1051.3	1009.2	967.0	924.9	882.7	840.6	798.4	740.0	681.6	623.2
117.5°	1036.4	995.3	954.3	913.2	872.2	831.1	790.1	749.0	692.8	636.6	580.4
120°	976.3	936.7	897.2	857.7	818.2	778.6	739.1	699.6	646.0	592.4	538.9
122.5°	914.1	876.1	838.1	800.2	762.2	724.2	686.2	648.2	597.5	546.8	496.0
125°	851.5	814.8	778.1	741.5	704.8	668.1	631.5	594.8	547.4	500.0	452.5
127.5°	787.4	752.3	717.2	682.0	646.9	611.8	576.6	541.5	497.6	453.7	409.7
130°	720.9	687.1	653.3	619.4	585.6	551.8	518.0	484.2	444.2	404.3	364.3
132.5°	656.1	624.5	592.9	561.2	529.6	498.0	466.4	434.8	398.1	361.4	324.8
135°	590.9	561.3	531.6	502.0	472.3	442.7	413.0	383.4	350.2	317.1	283.9
137.5°	526.3	500.0	473.6	447.3	420.9	394.6	368.2	341.9	311.2	280.4	249.7
140°	462.6	438.0	413.4	388.9	364.3	339.7	315.1	290.5	263.5	236.5	209.5
142.5°	399.0	378.1	357.3	336.4	315.6	294.7	273.9	253.0	228.6	204.2	179.9
145°	342.5	324.1	305.6	287.2	268.7	250.3	231.8	213.4	192.1	170.8	149.5
147.5°	290.1	274.0	258.0	242.0	226.0	209.9	193.9	177.9	159.9	141.9	123.9
150°	240.2	226.0	211.7	197.4	183.1	168.9	154.6	140.3	125.8	111.3	96.8
152.5°	192.4	179.8	167.3	154.8	142.3	129.7	117.2	104.7	93.7	82.7	71.8
155°	148.0	137.0	126.0	115.1	104.1	93.1	82.1	71.1	63.4	55.7	48.1
157.5°	104.5	95.5	86.5	77.5	68.5	59.5	50.5	41.5	36.9	32.3	27.7
160°	66.7	60.6	54.4	48.3	42.1	36.0	29.8	23.7	21.1	18.4	15.8
162.5°	34.9	31.6	28.3	25.1	21.8	18.5	15.2	11.9	10.6	9.3	7.9
165°	16.3	14.5	12.8	11.0	9.3	7.5	5.8	4.0	3.6	3.1	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: P201405

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1106.7	1104.7	1102.7	1100.8	1098.8	1096.8	1097.2	1097.7	1098.1	1098.5	1099.0
5°	1121.1	1117.9	1114.6	1111.3	1108.0	1104.7	1103.8	1102.9	1102.1	1101.2	1100.3
7.5°	1136.9	1131.7	1126.4	1121.1	1115.9	1110.6	1108.2	1105.8	1103.4	1101.0	1098.5
10°	1150.8	1143.6	1136.3	1129.1	1121.8	1114.6	1110.6	1106.7	1102.7	1098.8	1094.8
12.5°	1164.0	1154.1	1144.2	1134.4	1124.5	1114.6	1108.9	1103.2	1097.5	1091.8	1086.0
15°	1177.2	1164.6	1152.1	1139.6	1127.1	1114.6	1106.9	1099.2	1091.5	1083.8	1076.2
17.5°	1190.8	1174.7	1158.7	1142.7	1126.6	1110.6	1100.9	1091.3	1081.6	1072.0	1062.3
20°	1205.5	1185.7	1166.0	1146.2	1126.5	1106.7	1095.1	1083.4	1071.8	1060.1	1048.5
22.5°	1219.3	1195.6	1171.9	1148.1	1124.4	1100.7	1086.9	1073.0	1059.2	1045.4	1031.5
25°	1232.0	1204.6	1177.1	1149.7	1122.2	1094.8	1078.3	1061.9	1045.4	1028.9	1012.5
27.5°	1242.8	1211.6	1180.4	1149.3	1118.1	1086.9	1067.6	1048.3	1028.9	1009.6	990.3
30°	1252.4	1217.8	1183.1	1148.4	1113.7	1079.0	1057.0	1035.1	1013.1	991.2	969.2
32.5°	1260.8	1223.3	1185.7	1148.2	1110.6	1073.1	1047.6	1022.1	996.7	971.2	945.7
35°	1269.4	1228.5	1187.7	1146.9	1106.0	1065.2	1036.4	1007.7	978.9	950.1	921.4
37.5°	1279.0	1234.7	1190.3	1146.0	1101.6	1057.3	1025.0	992.7	960.5	928.2	895.9
40°	1288.7	1240.8	1192.9	1145.1	1097.2	1049.3	1013.5	977.7	941.9	906.1	870.4
42.5°	1294.4	1243.0	1191.6	1140.3	1088.9	1037.5	998.4	959.3	920.2	881.1	842.1
45°	1300.1	1245.2	1190.3	1135.4	1080.5	1025.6	983.2	940.8	898.5	856.1	813.7
47.5°	1302.7	1244.6	1186.4	1128.2	1070.0	1011.8	966.1	920.5	874.8	829.1	783.5
50°	1305.6	1243.7	1181.8	1119.8	1057.9	996.0	947.3	898.5	849.8	801.0	752.3
52.5°	1305.4	1239.9	1174.5	1109.1	1043.6	978.2	926.6	875.0	823.4	771.8	720.2
55°	1307.1	1238.2	1169.2	1100.3	1031.3	962.4	907.1	851.7	796.4	741.1	685.7
57.5°	1308.0	1235.3	1162.6	1090.0	1017.3	944.6	886.4	828.2	770.0	711.8	653.7
60°	1306.9	1230.5	1154.1	1077.6	1001.2	924.8	864.2	803.6	743.0	682.4	621.8
62.5°	1304.7	1224.8	1144.9	1064.9	985.0	905.1	842.3	779.5	716.7	653.9	591.1
65°	1299.7	1216.0	1132.4	1048.7	965.1	881.4	816.6	751.8	687.1	622.3	557.5
67.5°	1291.3	1204.6	1117.9	1031.1	944.4	857.7	790.5	723.3	656.1	588.9	521.8
70°	1275.9	1186.4	1096.8	1007.2	917.6	828.0	759.9	691.9	623.8	555.7	487.7
72.5°	1256.2	1164.6	1073.1	981.5	890.0	798.4	729.2	660.1	590.9	521.7	452.6
75°	1224.6	1133.0	1041.5	949.9	858.4	766.8	697.0	627.1	557.3	487.5	417.6
77.5°	1186.8	1095.7	1004.6	913.4	822.3	731.2	661.4	591.6	521.7	451.9	382.1
80°	1138.5	1049.2	959.8	870.4	781.1	691.7	622.7	553.8	484.8	415.9	346.9
82.5°	1087.5	1001.3	915.0	828.7	742.4	656.1	587.8	519.5	451.2	382.9	314.7
85°	1035.7	952.3	868.8	785.4	701.9	618.5	552.0	485.5	418.9	352.4	285.9
87.5°	986.7	906.4	826.0	745.6	665.3	584.9	520.4	455.8	391.3	326.7	262.2
90°	942.9	865.3	787.8	710.3	632.8	555.3	493.6	431.9	370.2	308.5	246.8
92.5°	907.0	832.0	756.9	681.8	606.7	531.6	472.5	413.5	354.4	295.3	236.3
95°	870.4	797.5	724.6	651.7	578.8	505.9	449.7	393.5	337.3	281.1	224.8
97.5°	832.2	760.6	689.0	617.5	545.9	474.3	421.6	368.9	316.2	263.5	210.8
100°	794.7	725.0	655.4	585.8	516.2	446.6	397.0	347.4	297.7	248.1	198.5
102.5°	758.2	690.3	622.5	554.6	486.8	418.9	372.4	325.8	279.3	232.7	186.2
105°	720.6	654.8	588.9	523.0	457.2	391.3	347.8	304.3	260.9	217.4	173.9
107.5°	682.2	618.1	554.0	489.8	425.7	361.6	321.4	281.2	241.1	200.9	160.7
110°	644.7	582.5	520.4	458.3	396.1	334.0	296.9	259.8	222.7	185.6	148.4



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	604.3	543.9	483.5	423.2	362.8	302.4	268.8	235.2	201.6	168.0	134.4
115°	564.8	506.3	447.9	389.5	331.1	272.7	242.4	212.1	181.8	151.5	121.2
117.5°	524.2	467.9	411.7	355.5	299.3	243.1	216.1	189.1	162.1	135.1	108.0
120°	485.3	431.7	378.1	324.6	271.0	217.4	193.2	169.1	144.9	120.8	96.6
122.5°	445.3	394.6	343.9	293.1	242.4	191.7	170.4	149.1	127.8	106.5	85.2
125°	405.1	357.7	310.3	262.8	215.4	168.0	149.3	130.7	112.0	93.3	74.7
127.5°	365.8	321.9	278.0	234.0	190.1	146.2	130.0	113.7	97.5	81.2	65.0
130°	324.3	284.4	244.4	204.4	164.5	124.5	110.7	96.8	83.0	69.2	55.3
132.5°	288.1	251.4	214.7	178.1	141.4	104.7	93.1	81.4	69.8	58.2	46.5
135°	250.8	217.6	184.5	151.3	118.2	85.0	75.6	66.1	56.7	47.2	37.8
137.5°	218.9	188.2	157.4	126.7	95.9	65.2	58.0	50.7	43.5	36.2	29.0
140°	182.5	155.4	128.4	101.4	74.4	47.4	42.1	36.9	31.6	26.3	21.1
142.5°	155.5	131.1	106.7	82.4	58.0	33.6	29.9	26.1	22.4	18.7	14.9
145°	128.2	106.9	85.6	64.3	43.0	21.7	19.3	16.9	14.5	12.1	9.6
147.5°	105.9	87.8	69.8	51.8	33.8	15.8	14.0	12.3	10.5	8.8	7.0
150°	82.3	67.9	53.4	38.9	24.4	9.9	8.8	7.7	6.6	5.5	4.4
152.5°	60.8	49.8	38.8	27.9	16.9	5.9	5.2	4.6	3.9	3.3	2.6
155°	40.4	32.7	25.0	17.4	9.7	2.0	1.8	1.6	1.3	1.1	0.9
157.5°	23.1	18.4	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
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°	6.6	5.3	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.2	1.8	1.3	0.9	0.4	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: P201405

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1099.4	1099.8	1100.3	1100.7	1098.3	1095.9	1093.5	1091.1	1088.6	1086.2	1083.8
5°	1099.4	1098.6	1097.7	1096.8	1093.1	1089.3	1085.6	1081.9	1078.1	1074.4	1070.7
7.5°	1096.1	1093.7	1091.3	1088.9	1084.1	1079.2	1074.4	1069.6	1064.7	1059.9	1055.1
10°	1090.9	1086.9	1083.0	1079.0	1073.1	1067.1	1061.2	1055.3	1049.3	1043.4	1037.5
12.5°	1080.3	1074.6	1068.9	1063.2	1056.6	1050.0	1043.4	1036.8	1030.3	1023.7	1017.1
15°	1068.5	1060.8	1053.1	1045.4	1038.2	1030.9	1023.7	1016.4	1009.2	1001.9	994.7
17.5°	1052.7	1043.0	1033.4	1023.7	1016.2	1008.8	1001.3	993.8	986.4	978.9	971.4
20°	1036.8	1025.2	1013.5	1001.9	994.0	986.1	978.2	970.3	962.4	954.5	946.6
22.5°	1017.7	1003.9	990.0	976.2	968.5	960.8	953.2	945.5	937.8	930.1	922.5
25°	996.0	979.5	963.1	946.6	939.1	931.7	924.2	916.7	909.3	901.8	894.3
27.5°	971.0	951.6	932.3	913.0	906.4	899.8	893.2	886.6	880.1	873.5	866.9
30°	947.3	925.3	903.4	881.4	875.9	870.4	864.9	859.4	854.0	848.5	843.0
32.5°	920.2	894.8	869.3	843.8	839.9	835.9	832.0	828.0	824.1	820.1	816.2
35°	892.6	863.8	835.1	806.3	804.8	803.2	801.7	800.1	798.6	797.0	795.5
37.5°	863.6	831.4	799.1	766.8	768.1	769.4	770.7	772.0	773.4	774.7	776.0
40°	834.6	798.8	763.0	727.2	731.2	735.1	739.1	743.0	747.0	750.9	754.9
42.5°	803.0	763.9	724.8	685.7	692.5	699.3	706.1	712.9	719.8	726.6	733.4
45°	771.3	729.0	686.6	644.2	653.6	663.1	672.5	682.0	691.4	700.9	710.3
47.5°	737.8	692.1	646.5	600.8	613.1	625.4	637.7	650.0	662.2	674.5	686.8
50°	703.5	654.8	606.0	557.3	572.2	587.2	602.1	617.0	632.0	646.9	661.8
52.5°	668.6	617.0	565.4	513.8	531.4	548.9	566.5	584.1	601.6	619.2	636.8
55°	630.4	575.1	519.7	464.4	485.3	506.1	527.0	547.8	568.7	589.5	610.4
57.5°	595.5	537.3	479.1	420.9	444.2	467.5	490.7	514.0	537.3	560.6	583.8
60°	561.2	500.6	440.0	379.4	404.9	430.4	455.8	481.3	506.8	532.3	557.7
62.5°	528.3	465.5	402.7	339.9	367.1	394.3	421.6	448.8	476.0	503.2	530.5
65°	492.7	428.0	363.2	298.4	327.4	356.4	385.4	414.4	443.3	472.3	501.3
67.5°	454.6	387.4	320.2	253.0	284.2	315.4	346.5	377.7	408.9	440.1	471.2
70°	419.6	351.5	283.5	215.4	247.9	280.4	312.9	345.4	377.9	410.4	442.9
72.5°	383.4	314.2	245.1	175.9	209.3	242.7	276.0	309.4	342.8	376.2	409.5
75°	347.8	278.0	208.1	138.3	172.8	207.3	241.7	276.2	310.7	345.2	379.6
77.5°	312.3	242.4	172.6	102.8	138.1	173.5	208.8	244.2	279.5	314.9	350.2
80°	278.0	209.0	140.1	71.1	107.1	143.1	179.1	215.1	251.2	287.2	323.2
82.5°	246.4	178.1	109.8	41.5	77.7	114.0	150.2	186.4	222.7	258.9	295.1
85°	219.4	152.8	86.3	19.8	55.6	91.4	127.2	163.0	198.7	234.5	270.3
87.5°	197.6	133.1	68.5	4.0	38.9	73.8	108.7	143.6	178.6	213.5	248.4
90°	185.1	123.4	61.7	0.0	33.2	66.3	99.5	132.6	165.8	198.9	232.1
92.5°	177.2	118.1	59.1	0.0	32.1	64.1	96.2	128.2	160.3	192.3	224.4
95°	168.6	112.4	56.2	0.0	30.5	61.0	91.6	122.1	152.6	183.1	213.7
97.5°	158.1	105.4	52.7	0.0	29.2	58.4	87.6	116.8	146.0	175.2	204.4
100°	148.9	99.2	49.6	0.0	27.9	55.8	83.7	111.6	139.4	167.3	195.2
102.5°	139.6	93.1	46.5	0.0	26.3	52.7	79.0	105.4	131.7	158.1	184.4
105°	130.4	87.0	43.5	0.0	25.0	50.1	75.1	100.1	125.2	150.2	175.2
107.5°	120.5	80.4	40.2	0.0	23.5	47.0	70.5	94.0	117.5	141.0	164.5
110°	111.3	74.2	37.1	0.0	21.7	43.5	65.2	86.9	108.7	130.4	152.1



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	100.8	67.2	33.6	0.0	20.0	40.0	59.9	79.9	99.9	119.9	139.8
115°	90.9	60.6	30.3	0.0	18.0	36.0	54.0	72.0	90.0	108.0	126.0
117.5°	81.0	54.0	27.0	0.0	16.2	32.5	48.7	65.0	81.2	97.5	113.7
120°	72.5	48.3	24.2	0.0	14.3	28.6	42.8	57.1	71.4	85.7	99.9
122.5°	63.9	42.6	21.3	0.0	12.5	25.0	37.5	50.0	62.6	75.1	87.6
125°	56.0	37.3	18.7	0.0	10.8	21.5	32.3	43.0	53.8	64.5	75.3
127.5°	48.7	32.5	16.2	0.0	8.8	17.6	26.3	35.1	43.9	52.7	61.4
130°	41.5	27.7	13.8	0.0	7.0	14.0	21.1	28.1	35.1	42.1	49.2
132.5°	34.9	23.3	11.6	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4
135°	28.3	18.9	9.4	0.0	4.2	8.3	12.5	16.7	20.8	25.0	29.2
137.5°	21.7	14.5	7.2	0.0	2.9	5.7	8.6	11.4	14.3	17.1	20.0
140°	15.8	10.5	5.3	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3
142.5°	11.2	7.5	3.7	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
145°	7.2	4.8	2.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
147.5°	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	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: P201405

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1081.4	1079.0	1077.9	1076.8	1075.7	1074.6	1073.5	1072.4	1071.3	1070.2	1069.1
5°	1066.9	1063.2	1061.4	1059.7	1057.9	1056.2	1054.4	1052.7	1050.9	1049.2	1047.4
7.5°	1050.2	1045.4	1043.0	1040.6	1038.2	1035.8	1033.3	1030.9	1028.5	1026.1	1023.7
10°	1031.5	1025.6	1023.0	1020.3	1017.7	1015.1	1012.4	1009.8	1007.2	1004.5	1001.9
12.5°	1010.5	1003.9	1001.5	999.1	996.7	994.3	991.8	989.4	987.0	984.6	982.2
15°	987.4	980.2	978.9	977.6	976.2	974.9	973.6	972.3	970.9	969.6	968.3
17.5°	964.0	956.5	956.7	956.9	957.1	957.3	957.6	957.8	958.0	958.2	958.4
20°	938.7	930.8	933.7	936.5	939.4	942.2	945.1	947.9	950.8	953.6	956.5
22.5°	914.8	907.1	913.7	920.3	926.8	933.4	940.0	946.6	953.1	959.7	966.3
25°	886.9	879.4	890.2	900.9	911.7	922.4	933.2	943.9	954.7	965.4	976.2
27.5°	860.3	853.7	868.2	882.7	897.2	911.7	926.1	940.6	955.1	969.6	984.1
30°	837.5	832.0	849.8	867.6	885.3	903.1	920.9	938.7	956.4	974.2	992.0
32.5°	812.2	808.3	828.9	849.6	870.2	890.8	911.5	932.1	952.7	973.4	994.0
35°	793.9	792.4	815.2	838.1	860.9	883.8	906.6	929.5	952.3	975.2	998.0
37.5°	777.3	778.6	803.2	827.8	852.4	877.0	901.5	926.1	950.7	975.3	999.9
40°	758.8	762.8	789.1	815.5	841.8	868.2	894.5	920.9	947.2	973.6	999.9
42.5°	740.2	747.0	775.1	803.2	831.3	859.4	887.5	915.6	943.7	971.8	999.9
45°	719.8	729.2	759.1	788.9	818.8	848.7	878.5	908.4	938.3	968.1	998.0
47.5°	699.1	711.4	743.0	774.6	806.3	837.9	869.5	901.1	932.8	964.4	996.0
50°	676.8	691.7	724.9	758.0	791.2	824.3	857.5	890.6	923.8	956.9	990.1
52.5°	654.3	671.9	706.4	740.9	775.3	809.8	844.3	878.8	913.2	947.7	982.2
55°	631.2	652.1	687.9	723.7	759.5	795.3	831.1	866.9	902.7	938.5	974.3
57.5°	607.1	630.4	667.7	705.0	742.4	779.7	817.0	854.3	891.7	929.0	966.3
60°	583.2	608.7	647.3	686.0	724.6	763.3	801.9	840.6	879.2	917.9	956.5
62.5°	557.7	584.9	624.9	664.8	704.8	744.8	784.7	824.7	864.7	904.6	944.6
65°	530.3	559.3	600.8	642.3	683.8	725.3	766.8	808.3	849.8	891.3	932.8
67.5°	502.4	533.6	576.0	618.4	660.7	703.1	745.5	787.9	830.2	872.6	915.0
70°	475.4	507.9	551.2	594.4	637.7	680.9	724.2	767.4	810.7	853.9	897.2
72.5°	442.9	476.3	520.6	565.0	609.3	653.7	698.0	742.4	786.7	831.1	875.4
75°	414.1	448.6	493.2	537.8	582.3	626.9	671.5	716.1	760.6	805.2	849.8
77.5°	385.6	420.9	465.5	510.1	554.6	599.2	643.8	688.4	732.9	777.5	822.1
80°	359.2	395.2	438.9	482.6	526.3	570.0	613.7	657.4	701.1	744.8	788.5
82.5°	331.4	367.6	411.1	454.6	498.0	541.5	585.0	628.5	671.9	715.4	758.9
85°	306.1	341.9	384.5	427.1	469.7	512.3	554.9	597.5	640.1	682.7	725.3
87.5°	283.3	318.2	360.1	402.1	444.0	485.9	527.9	569.8	611.7	653.7	695.6
90°	265.2	298.4	339.5	380.5	421.6	462.6	503.7	544.7	585.8	626.8	667.9
92.5°	256.4	288.5	328.5	368.4	408.4	448.4	488.3	528.3	568.3	608.2	648.2
95°	244.2	274.7	314.2	353.7	393.3	432.8	472.3	511.8	551.4	590.9	630.4
97.5°	233.6	262.8	301.7	340.5	379.4	418.3	457.1	496.0	534.9	573.7	612.6
100°	223.1	251.0	289.4	327.8	366.3	404.7	443.1	481.5	520.0	558.4	596.8
102.5°	210.8	237.1	274.9	312.6	350.4	388.2	425.9	463.7	501.5	539.2	577.0
105°	200.3	225.3	262.0	298.6	335.3	372.0	408.6	445.3	482.0	518.6	555.3
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°	173.9	195.6	231.0	266.3	301.7	337.0	372.4	407.7	443.1	478.4	513.8



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	159.8	179.8	213.6	247.4	281.3	315.1	348.9	382.7	416.6	450.4	484.2
115°	144.0	162.0	195.2	228.3	261.5	294.6	327.8	360.9	394.1	427.2	460.4
117.5°	130.0	146.2	178.5	210.8	243.0	275.3	307.6	339.9	372.1	404.4	436.7
120°	114.2	128.5	159.9	191.3	222.7	254.1	285.4	316.8	348.2	379.6	411.0
122.5°	100.1	112.6	142.9	173.2	203.5	233.8	264.2	294.5	324.8	355.1	385.4
125°	86.0	96.8	125.6	154.3	183.1	211.9	240.6	269.4	298.2	326.9	355.7
127.5°	70.2	79.0	106.0	133.0	160.0	187.0	214.1	241.1	268.1	295.1	322.1
130°	56.2	63.2	87.4	111.5	135.7	159.8	184.0	208.1	232.3	256.4	280.6
132.5°	43.9	49.4	70.7	92.0	113.3	134.6	155.9	177.2	198.5	219.8	241.1
135°	33.3	37.5	56.2	74.8	93.5	112.2	130.8	149.5	168.2	186.8	205.5
137.5°	22.8	25.7	41.9	58.2	74.4	90.7	106.9	123.2	139.4	155.7	171.9
140°	14.0	15.8	29.9	43.9	58.0	72.0	86.1	100.1	114.2	128.2	142.3
142.5°	7.0	7.9	20.0	32.1	44.1	56.2	68.3	80.4	92.4	104.5	116.6
145°	1.8	2.0	11.9	21.8	31.6	41.5	51.4	61.3	71.1	81.0	90.9
147.5°	0.0	0.0	7.7	15.4	23.1	30.8	38.4	46.1	53.8	61.5	69.2
150°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	32.9	38.4	43.9	49.4
152.5°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	22.4	26.1	29.9	33.6
155°	0.0	0.0	2.0	4.0	5.9	7.9	9.9	11.9	13.8	15.8	17.8
157.5°	0.0	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9
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: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1068.2	1067.3	1066.5	1065.6	1064.7	1063.8	1063.0	1062.1	1061.2	1060.3	1059.4
5°	1045.9	1044.3	1042.8	1041.2	1039.7	1038.1	1036.6	1035.0	1033.5	1033.1	1032.6
7.5°	1022.4	1021.1	1019.7	1018.4	1017.1	1015.8	1014.4	1013.1	1011.8	1011.4	1010.9
10°	1001.2	1000.6	999.9	999.3	998.6	998.0	997.3	996.7	996.0	995.6	995.1
12.5°	982.6	983.1	983.5	983.9	984.4	984.8	985.2	985.7	986.1	986.1	986.1
15°	970.3	972.3	974.2	976.2	978.2	980.2	982.1	984.1	986.1	987.6	989.2
17.5°	963.7	969.0	974.2	979.5	984.8	990.1	995.3	1000.6	1005.9	1008.1	1010.3
20°	964.4	972.3	980.2	988.1	996.0	1003.9	1011.8	1019.7	1027.6	1030.5	1033.3
22.5°	975.5	984.7	994.0	1003.2	1012.4	1021.6	1030.9	1040.1	1049.3	1052.4	1055.5
25°	986.5	996.8	1007.2	1017.5	1027.8	1038.1	1048.5	1058.8	1069.1	1072.6	1076.1
27.5°	995.5	1006.9	1018.4	1029.8	1041.2	1052.6	1064.1	1075.5	1086.9	1090.9	1094.8
30°	1004.5	1017.0	1029.6	1042.1	1054.6	1067.1	1079.7	1092.2	1104.7	1109.1	1113.5
32.5°	1007.8	1021.7	1035.5	1049.3	1063.2	1077.0	1090.8	1104.7	1118.5	1124.0	1129.5
35°	1013.1	1028.3	1043.4	1058.6	1073.7	1088.9	1104.0	1119.2	1134.3	1140.2	1146.2
37.5°	1016.4	1032.9	1049.3	1065.8	1082.3	1098.8	1115.2	1131.7	1148.2	1154.8	1161.4
40°	1017.9	1035.9	1053.9	1071.9	1090.0	1108.0	1126.0	1144.0	1162.0	1169.2	1176.5
42.5°	1019.2	1038.5	1057.9	1077.2	1096.5	1115.8	1135.2	1154.5	1173.8	1181.7	1189.6
45°	1018.9	1039.7	1060.6	1081.4	1102.3	1123.1	1144.0	1164.8	1185.7	1194.5	1203.3
47.5°	1018.4	1040.8	1063.2	1085.6	1108.0	1130.4	1152.8	1175.2	1197.6	1207.0	1216.5
50°	1014.2	1038.4	1062.5	1086.7	1110.8	1135.0	1159.1	1183.3	1207.4	1217.5	1227.6
52.5°	1008.1	1034.0	1059.9	1085.8	1111.7	1137.6	1163.5	1189.4	1215.3	1226.3	1237.3
55°	1002.0	1029.6	1057.3	1085.0	1112.6	1140.3	1168.0	1195.6	1223.3	1234.7	1246.1
57.5°	995.3	1024.3	1053.3	1082.3	1111.2	1140.2	1169.2	1198.2	1227.2	1239.1	1250.9
60°	986.8	1017.1	1047.4	1077.7	1108.0	1138.3	1168.6	1198.9	1229.2	1241.3	1253.4
62.5°	976.0	1007.4	1038.8	1070.2	1101.6	1133.0	1164.4	1195.8	1227.2	1239.7	1252.2
65°	964.9	996.9	1029.0	1061.0	1093.1	1125.1	1157.2	1189.2	1221.3	1233.8	1246.3
67.5°	947.9	980.9	1013.8	1046.7	1079.7	1112.6	1145.5	1178.5	1211.4	1224.1	1236.9
70°	930.8	964.4	998.0	1031.6	1065.1	1098.7	1132.3	1165.9	1199.5	1212.0	1224.5
72.5°	909.0	942.6	976.2	1009.8	1043.4	1077.0	1110.6	1144.2	1177.8	1190.3	1202.8
75°	883.6	917.4	951.2	985.0	1018.9	1052.7	1086.5	1120.3	1154.1	1166.4	1178.7
77.5°	855.7	889.3	922.9	956.5	990.0	1023.6	1057.2	1090.8	1124.4	1136.5	1148.6
80°	821.9	855.3	888.6	922.0	955.4	988.8	1022.1	1055.5	1088.9	1100.8	1112.6
82.5°	791.6	824.3	857.0	889.7	922.5	955.2	987.9	1020.6	1053.3	1065.2	1077.0
85°	757.6	789.9	822.1	854.4	886.7	919.0	951.2	983.5	1015.8	1027.4	1039.1
87.5°	727.0	758.4	789.8	821.2	852.6	884.0	915.4	946.8	978.2	989.8	1001.5
90°	698.6	729.4	760.1	790.9	821.6	852.4	883.1	913.9	944.6	956.0	967.4
92.5°	678.3	708.4	738.4	768.5	798.6	828.7	858.7	888.8	918.9	930.1	941.3
95°	659.8	689.2	718.7	748.1	777.5	806.9	836.4	865.8	895.2	906.2	917.2
97.5°	641.4	670.1	698.9	727.7	756.4	785.2	814.0	842.7	871.5	882.3	893.0
100°	624.9	653.0	681.1	709.2	737.4	765.5	793.6	821.7	849.8	860.1	870.4
102.5°	604.7	632.3	660.0	687.7	715.3	743.0	770.7	798.3	826.0	836.1	846.2
105°	582.5	609.8	637.0	664.2	691.5	718.7	745.9	773.2	800.4	810.7	821.0
107.5°	560.4	587.2	614.0	640.8	667.5	694.3	721.1	747.9	774.7	784.6	794.5
110°	539.5	565.2	590.9	616.6	642.2	667.9	693.6	719.3	745.0	754.9	764.8



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	509.9	535.6	561.3	587.0	612.6	638.3	664.0	689.7	715.4	724.8	734.3
115°	485.4	510.5	535.5	560.5	585.6	610.6	635.6	660.7	685.7	694.9	704.1
117.5°	460.6	484.6	508.5	532.4	556.4	580.3	604.2	628.2	652.1	661.1	670.1
120°	434.1	457.1	480.2	503.2	526.3	549.3	572.4	595.4	618.5	627.5	636.5
122.5°	407.6	429.7	451.9	474.1	496.2	518.4	540.6	562.7	584.9	593.2	601.6
125°	377.2	398.7	420.3	441.8	463.3	484.8	506.4	527.9	549.4	557.5	565.6
127.5°	343.2	364.3	385.3	406.4	427.5	448.6	469.6	490.7	511.8	519.9	528.0
130°	301.5	322.3	343.2	364.1	384.9	405.8	426.7	447.5	468.4	476.5	484.6
132.5°	262.0	282.8	303.7	324.5	345.4	366.2	387.1	407.9	428.8	436.7	444.6
135°	225.7	245.9	266.1	286.3	306.5	326.7	346.9	367.1	387.3	394.1	400.9
137.5°	190.6	209.2	227.9	246.6	265.2	283.9	302.6	321.2	339.9	346.9	353.9
140°	159.0	175.7	192.4	209.1	225.7	242.4	259.1	275.8	292.5	299.5	306.5
142.5°	131.1	145.6	160.1	174.6	189.0	203.5	218.0	232.5	247.0	254.2	261.5
145°	103.4	115.9	128.4	140.9	153.5	166.0	178.5	191.0	203.5	211.0	218.4
147.5°	79.7	90.3	100.8	111.3	121.9	132.4	142.9	153.5	164.0	171.2	178.5
150°	58.2	67.0	75.8	84.6	93.3	102.1	110.9	119.7	128.5	135.5	142.5
152.5°	40.6	47.6	54.7	61.7	68.7	75.7	82.8	89.8	96.8	103.4	110.0
155°	23.3	28.8	34.3	39.8	45.2	50.7	56.2	61.7	67.2	73.3	79.5
157.5°	10.1	14.3	18.4	22.6	26.8	31.0	35.1	39.3	43.5	48.3	53.2
160°	2.4	4.8	7.2	9.6	12.1	14.5	16.9	19.3	21.7	25.7	29.6
162.5°	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	8.5	11.2
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
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: P201405

CATALOG NUMBER: 8LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1058.6	1057.7	1056.8	1055.9	1055.1	1054.2	1053.3	1054.4	1055.5	1056.6	1057.7
5°	1032.2	1031.8	1031.3	1030.9	1030.5	1030.0	1029.6	1030.0	1030.5	1030.9	1031.3
7.5°	1010.5	1010.0	1009.6	1009.1	1008.7	1008.2	1007.8	1008.5	1009.1	1009.8	1010.5
10°	994.7	994.2	993.8	993.3	992.9	992.4	992.0	992.2	992.4	992.7	992.9
12.5°	986.1	986.1	986.1	986.1	986.1	986.1	986.1	985.7	985.2	984.8	984.4
15°	990.7	992.2	993.8	995.3	996.8	998.4	999.9	998.1	996.4	994.6	992.9
17.5°	1012.5	1014.7	1016.8	1019.0	1021.2	1023.4	1025.6	1023.2	1020.8	1018.4	1016.0
20°	1036.2	1039.0	1041.9	1044.7	1047.6	1050.4	1053.3	1050.0	1046.7	1043.4	1040.1
22.5°	1058.5	1061.6	1064.7	1067.8	1070.8	1073.9	1077.0	1073.3	1069.5	1065.8	1062.1
25°	1079.6	1083.1	1086.7	1090.2	1093.7	1097.2	1100.7	1096.5	1092.4	1088.2	1084.0
27.5°	1098.8	1102.7	1106.7	1110.6	1114.6	1118.5	1122.5	1117.9	1113.3	1108.7	1104.1
30°	1117.9	1122.3	1126.6	1131.0	1135.4	1139.8	1144.2	1138.9	1133.7	1128.4	1123.1
32.5°	1135.0	1140.5	1145.9	1151.4	1156.9	1162.4	1167.9	1161.8	1155.6	1149.5	1143.3
35°	1152.1	1158.0	1164.0	1169.9	1175.8	1181.8	1187.7	1181.1	1174.5	1167.9	1161.3
37.5°	1167.9	1174.5	1181.1	1187.7	1194.2	1200.8	1207.4	1200.4	1193.4	1186.3	1179.3
40°	1183.7	1191.0	1198.2	1205.5	1212.7	1220.0	1227.2	1219.5	1211.8	1204.1	1196.4
42.5°	1197.5	1205.4	1213.4	1221.3	1229.2	1237.1	1245.0	1236.9	1228.8	1220.6	1212.5
45°	1212.1	1220.9	1229.6	1238.4	1247.2	1256.0	1264.8	1256.0	1247.2	1238.4	1229.6
47.5°	1225.9	1235.3	1244.8	1254.2	1263.6	1273.1	1282.5	1272.8	1263.2	1253.5	1243.9
50°	1237.7	1247.8	1257.9	1268.0	1278.1	1288.2	1298.3	1288.2	1278.1	1268.0	1257.9
52.5°	1248.3	1259.3	1270.2	1281.2	1292.2	1303.2	1314.2	1303.2	1292.2	1281.2	1270.2
55°	1257.5	1268.9	1280.4	1291.8	1303.2	1314.6	1326.0	1314.6	1303.2	1291.8	1280.4
57.5°	1262.8	1274.6	1286.5	1298.3	1310.2	1322.0	1333.9	1322.3	1310.6	1299.0	1287.4
60°	1265.4	1277.5	1289.6	1301.7	1313.7	1325.8	1337.9	1326.3	1314.6	1303.0	1291.3
62.5°	1264.7	1277.2	1289.8	1302.3	1314.8	1327.3	1339.8	1327.7	1315.7	1303.6	1291.5
65°	1258.8	1271.3	1283.9	1296.4	1308.9	1321.4	1333.9	1321.8	1309.7	1297.7	1285.6
67.5°	1249.6	1262.3	1275.1	1287.8	1300.5	1313.3	1326.0	1313.7	1301.4	1289.1	1276.8
70°	1237.1	1249.6	1262.1	1274.6	1287.2	1299.7	1312.2	1299.9	1287.6	1275.3	1263.0
72.5°	1215.3	1227.8	1240.4	1252.9	1265.4	1277.9	1290.4	1278.3	1266.3	1254.2	1242.1
75°	1191.0	1203.3	1215.6	1227.9	1240.2	1252.5	1264.8	1252.9	1241.1	1229.2	1217.3
77.5°	1160.6	1172.7	1184.8	1196.9	1208.9	1221.0	1233.1	1221.2	1209.4	1197.5	1185.7
80°	1124.5	1136.3	1148.2	1160.0	1171.9	1183.7	1195.6	1184.0	1172.3	1160.7	1149.0
82.5°	1088.9	1100.7	1112.6	1124.4	1136.3	1148.1	1160.0	1148.4	1136.7	1125.1	1113.5
85°	1050.7	1062.3	1074.0	1085.6	1097.2	1108.9	1120.5	1108.9	1097.2	1085.6	1074.0
87.5°	1013.1	1024.7	1036.4	1048.0	1059.6	1071.3	1082.9	1071.3	1059.6	1048.0	1036.4
90°	978.9	990.3	1001.7	1013.1	1024.6	1036.0	1047.4	1036.0	1024.6	1013.1	1001.7
92.5°	952.5	963.7	974.9	986.1	997.3	1008.5	1019.7	1008.5	997.3	986.1	974.9
95°	928.1	939.1	950.1	961.1	972.0	983.0	994.0	983.2	972.5	961.7	951.0
97.5°	903.8	914.5	925.3	936.0	946.8	957.5	968.3	958.0	947.7	937.3	927.0
100°	880.7	891.0	901.4	911.7	922.0	932.3	942.6	932.5	922.4	912.3	902.2
102.5°	856.3	866.4	876.5	886.6	896.7	906.8	916.9	906.8	896.7	886.6	876.5
105°	831.3	841.6	852.0	862.3	872.6	882.9	893.2	883.1	873.0	862.9	852.8
107.5°	804.3	814.2	824.1	834.0	843.8	853.7	863.6	853.7	843.8	834.0	824.1
110°	774.6	784.5	794.4	804.3	814.1	824.0	833.9	824.0	814.1	804.3	794.4



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	743.7	753.2	762.6	772.1	781.5	791.0	800.4	791.0	781.5	772.1	762.6
115°	713.4	722.6	731.8	741.0	750.3	759.5	768.7	759.5	750.3	741.0	731.8
117.5°	679.1	688.1	697.2	706.2	715.2	724.2	733.2	724.2	715.2	706.2	697.2
120°	645.5	654.5	663.6	672.6	681.6	690.6	699.6	691.0	682.5	673.9	665.3
122.5°	609.9	618.3	626.6	635.0	643.3	651.7	660.0	651.9	643.8	635.6	627.5
125°	573.8	581.9	590.0	598.1	606.3	614.4	622.5	614.6	606.7	598.8	590.9
127.5°	536.2	544.3	552.4	560.5	568.7	576.8	584.9	577.4	570.0	562.5	555.1
130°	492.8	500.9	509.0	517.1	525.3	533.4	541.5	534.0	526.6	519.1	511.6
132.5°	452.5	460.4	468.4	476.3	484.2	492.1	500.0	492.5	485.1	477.6	470.1
135°	407.7	414.5	421.4	428.2	435.0	441.8	448.6	442.2	435.9	429.5	423.1
137.5°	361.0	368.0	375.0	382.0	389.1	396.1	403.1	397.0	390.8	384.7	378.5
140°	313.6	320.6	327.6	334.6	341.7	348.7	355.7	350.2	344.7	339.2	333.7
142.5°	268.7	276.0	283.2	290.5	297.7	305.0	312.2	307.4	302.6	297.7	292.9
145°	225.9	233.4	240.8	248.3	255.8	263.2	270.7	266.3	261.9	257.5	253.1
147.5°	185.7	193.0	200.2	207.5	214.7	222.0	229.2	225.7	222.2	218.7	215.2
150°	149.6	156.6	163.6	170.6	177.7	184.7	191.7	188.6	185.5	182.5	179.4
152.5°	116.6	123.2	129.7	136.3	142.9	149.5	156.1	153.5	150.8	148.2	145.6
155°	85.6	91.8	97.9	104.1	110.2	116.4	122.5	120.1	117.7	115.3	112.9
157.5°	58.0	62.8	67.7	72.5	77.3	82.2	87.0	85.5	83.9	82.4	80.8
160°	33.6	37.5	41.5	45.4	49.4	53.3	57.3	56.0	54.7	53.4	52.1
162.5°	13.8	16.4	19.1	21.7	24.3	27.0	29.6	28.7	27.8	27.0	26.1
165°	2.6	3.5	4.4	5.3	6.1	7.0	7.9	7.7	7.5	7.2	7.0
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: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1058.8	1059.9	1061.0	1062.1	1063.2	1064.7	1066.3	1067.8	1069.3	1070.9	1072.4
5°	1031.8	1032.2	1032.6	1033.1	1033.5	1035.9	1038.3	1040.8	1043.2	1045.6	1048.0
7.5°	1011.1	1011.8	1012.5	1013.1	1013.8	1016.0	1018.2	1020.4	1022.6	1024.7	1026.9
10°	993.1	993.3	993.6	993.8	994.0	996.0	998.0	999.9	1001.9	1003.9	1005.9
12.5°	983.9	983.5	983.1	982.6	982.2	983.5	984.8	986.1	987.4	988.8	990.1
15°	991.1	989.4	987.6	985.9	984.1	983.4	982.8	982.1	981.5	980.8	980.2
17.5°	1013.5	1011.1	1008.7	1006.3	1003.9	999.7	995.5	991.4	987.2	983.0	978.8
20°	1036.9	1033.6	1030.3	1027.0	1023.7	1016.9	1010.1	1003.3	996.5	989.6	982.8
22.5°	1058.3	1054.6	1050.9	1047.1	1043.4	1035.3	1027.2	1019.0	1010.9	1002.8	994.7
25°	1079.9	1075.7	1071.5	1067.4	1063.2	1053.5	1043.9	1034.2	1024.5	1014.9	1005.2
27.5°	1099.4	1094.8	1090.2	1085.6	1081.0	1070.0	1059.0	1048.1	1037.1	1026.1	1015.1
30°	1117.9	1112.6	1107.3	1102.1	1096.8	1084.7	1072.6	1060.6	1048.5	1036.4	1024.3
32.5°	1137.2	1131.0	1124.9	1118.7	1112.6	1099.0	1085.4	1071.8	1058.2	1044.5	1030.9
35°	1154.8	1148.2	1141.6	1135.0	1128.4	1113.5	1098.5	1083.6	1068.7	1053.7	1038.8
37.5°	1172.3	1165.3	1158.2	1151.2	1144.2	1128.0	1111.7	1095.5	1079.2	1063.0	1046.7
40°	1188.8	1181.1	1173.4	1165.7	1158.0	1140.4	1122.9	1105.3	1087.7	1070.2	1052.6
42.5°	1204.4	1196.3	1188.1	1180.0	1171.9	1152.8	1133.7	1114.6	1095.5	1076.3	1057.2
45°	1220.9	1212.1	1203.3	1194.5	1185.7	1164.8	1144.0	1123.1	1102.3	1081.4	1060.6
47.5°	1234.2	1224.6	1214.9	1205.3	1195.6	1173.2	1150.8	1128.4	1106.0	1083.6	1061.2
50°	1247.8	1237.7	1227.6	1217.5	1207.4	1183.3	1159.1	1135.0	1110.8	1086.7	1062.5
52.5°	1259.3	1248.3	1237.3	1226.3	1215.3	1189.4	1163.5	1137.6	1111.7	1085.8	1059.9
55°	1268.9	1257.5	1246.1	1234.7	1223.3	1195.8	1168.4	1140.9	1113.5	1086.0	1058.6
57.5°	1275.7	1264.1	1252.5	1240.8	1229.2	1200.2	1171.2	1142.2	1113.2	1084.3	1055.3
60°	1279.7	1268.0	1256.4	1244.7	1233.1	1202.6	1172.1	1141.5	1111.0	1080.5	1050.0
62.5°	1279.5	1267.4	1255.3	1243.3	1231.2	1199.6	1168.0	1136.3	1104.7	1073.1	1041.5
65°	1273.5	1261.4	1249.4	1237.3	1225.2	1192.7	1160.2	1127.7	1095.2	1062.8	1030.3
67.5°	1264.5	1252.2	1239.9	1227.6	1215.3	1182.1	1149.0	1115.8	1082.7	1049.5	1016.4
70°	1250.7	1238.4	1226.1	1213.8	1201.5	1167.7	1133.9	1100.1	1066.3	1032.4	998.6
72.5°	1230.1	1218.0	1205.9	1193.9	1181.8	1148.0	1114.2	1080.3	1046.5	1012.7	978.9
75°	1205.5	1193.6	1181.7	1169.9	1158.0	1124.0	1089.9	1055.9	1021.9	987.8	953.8
77.5°	1173.8	1162.0	1150.1	1138.3	1126.4	1092.6	1058.8	1025.0	991.2	957.3	923.5
80°	1137.4	1125.7	1114.1	1102.4	1090.8	1057.4	1024.1	990.7	957.3	924.0	890.6
82.5°	1101.8	1090.2	1078.6	1066.9	1055.3	1022.4	989.4	956.5	923.6	890.6	857.7
85°	1062.3	1050.7	1039.1	1027.4	1015.8	983.7	951.7	919.6	887.5	855.5	823.4
87.5°	1024.7	1013.1	1001.5	989.8	978.2	947.2	916.3	885.3	854.4	823.4	792.5
90°	990.3	978.9	967.4	956.0	944.6	914.3	884.0	853.7	823.4	793.1	762.8
92.5°	963.7	952.5	941.3	930.1	918.9	889.7	860.5	831.3	802.1	772.9	743.7
95°	940.2	929.5	918.7	908.0	897.2	868.7	840.1	811.6	783.0	754.5	725.9
97.5°	916.7	906.4	896.0	885.7	875.4	847.1	818.8	790.4	762.1	733.8	705.5
100°	892.1	882.0	871.9	861.8	851.7	823.8	795.9	768.1	740.2	712.3	684.4
102.5°	866.4	856.3	846.2	836.1	826.0	798.8	771.6	744.3	717.1	689.9	662.7
105°	842.7	832.6	822.5	812.4	802.3	775.5	748.7	721.9	695.1	668.4	641.6
107.5°	814.2	804.3	794.5	784.6	774.7	748.8	722.9	697.0	671.1	645.1	619.2
110°	784.5	774.6	764.8	754.9	745.0	720.0	694.9	669.9	644.9	619.8	594.8



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	753.2	743.7	734.3	724.8	715.4	691.5	667.5	643.6	619.7	595.7	571.8
115°	722.6	713.4	704.1	694.9	685.7	661.8	637.8	613.9	590.0	566.0	542.1
117.5°	688.1	679.1	670.1	661.1	652.1	629.3	606.4	583.6	560.8	537.9	515.1
120°	656.8	648.2	639.6	631.1	622.5	600.1	577.7	555.3	532.9	510.5	488.1
122.5°	619.4	611.3	603.1	595.0	586.9	565.6	544.3	523.0	501.7	480.4	459.1
125°	583.0	575.1	567.2	559.3	551.4	530.8	510.1	489.5	468.8	448.2	427.5
127.5°	547.6	540.2	532.7	525.3	517.8	497.2	476.5	455.9	435.2	414.6	393.9
130°	504.2	496.7	489.2	481.8	474.3	454.8	435.2	415.7	396.1	376.6	357.0
132.5°	462.7	455.2	447.7	440.3	432.8	414.1	395.5	376.8	358.1	339.5	320.8
135°	416.8	410.4	404.0	397.7	391.3	374.2	357.0	339.9	322.8	305.6	288.5
137.5°	372.4	366.2	360.1	353.9	347.8	332.4	317.1	301.7	286.3	271.0	255.6
140°	328.3	322.8	317.3	311.8	306.3	292.5	278.6	264.8	251.0	237.1	223.3
142.5°	288.1	283.3	278.4	273.6	268.8	256.3	243.8	231.2	218.7	206.2	193.7
145°	248.8	244.4	240.0	235.6	231.2	220.0	208.8	197.6	186.4	175.2	164.0
147.5°	211.6	208.1	204.6	201.1	197.6	187.7	177.8	168.0	158.1	148.2	138.3
150°	176.3	173.2	170.2	167.1	164.0	155.4	146.9	138.3	129.8	121.2	112.7
152.5°	142.9	140.3	137.7	135.0	132.4	124.9	117.5	110.0	102.5	95.1	87.6
155°	110.4	108.0	105.6	103.2	100.8	94.4	88.1	81.7	75.3	69.0	62.6
157.5°	79.3	77.7	76.2	74.6	73.1	67.8	62.6	57.3	52.0	46.8	41.5
160°	50.7	49.4	48.1	46.8	45.5	41.8	38.0	34.3	30.6	26.8	23.1
162.5°	25.2	24.3	23.5	22.6	21.7	19.7	17.8	15.8	13.8	11.9	9.9
165°	6.8	6.6	6.3	6.1	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: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1073.9	1075.5	1077.0	1077.7	1078.3	1079.0	1079.6	1080.3	1080.9	1081.6	1082.2
5°	1050.5	1052.9	1055.3	1056.6	1057.9	1059.2	1060.5	1061.9	1063.2	1064.5	1065.8
7.5°	1029.1	1031.3	1033.5	1035.3	1037.0	1038.8	1040.5	1042.3	1044.0	1045.8	1047.5
10°	1007.8	1009.8	1011.8	1014.0	1016.2	1018.4	1020.6	1022.8	1025.0	1027.2	1029.4
12.5°	991.4	992.7	994.0	995.5	997.1	998.6	1000.1	1001.7	1003.2	1004.7	1006.3
15°	979.5	978.9	978.2	978.9	979.5	980.2	980.8	981.5	982.1	982.8	983.4
17.5°	974.7	970.5	966.3	965.2	964.1	963.0	961.9	960.9	959.8	958.7	957.6
20°	976.0	969.2	962.4	958.9	955.4	951.9	948.4	944.8	941.3	937.8	934.3
22.5°	986.5	978.4	970.3	963.1	955.8	948.6	941.3	934.1	926.8	919.6	912.3
25°	995.5	985.9	976.2	965.2	954.2	943.3	932.3	921.3	910.3	899.4	888.4
27.5°	1004.2	993.2	982.2	967.7	953.2	938.7	924.2	909.7	895.2	880.7	866.2
30°	1012.3	1000.2	988.1	970.3	952.5	934.7	916.9	899.2	881.4	863.6	845.8
32.5°	1017.3	1003.7	990.1	969.5	948.8	928.2	907.5	886.9	866.2	845.6	824.9
35°	1023.9	1008.9	994.0	970.9	947.9	924.8	901.8	878.7	855.7	832.6	809.6
37.5°	1030.5	1014.2	998.0	972.7	947.5	922.2	897.0	871.7	846.5	821.2	796.0
40°	1035.0	1017.5	999.9	972.9	945.9	918.9	891.9	864.9	837.9	810.9	783.9
42.5°	1038.1	1019.0	999.9	971.1	942.4	913.6	884.9	856.1	827.4	798.6	769.9
45°	1039.7	1018.9	998.0	967.7	937.4	907.1	876.8	846.5	816.2	785.9	755.6
47.5°	1038.8	1016.4	994.0	961.9	929.9	897.8	865.8	833.7	801.7	769.6	737.6
50°	1038.4	1014.2	990.1	956.5	922.9	889.3	855.7	822.1	788.5	754.9	721.3
52.5°	1034.0	1008.1	982.2	947.3	912.4	877.4	842.5	807.6	772.7	737.7	702.8
55°	1031.1	1003.7	976.2	939.8	903.3	866.9	830.4	794.0	757.5	721.1	684.6
57.5°	1026.3	997.3	968.3	930.3	892.3	854.3	816.3	778.4	740.4	702.4	664.4
60°	1019.4	988.9	958.4	919.1	879.8	840.5	801.2	761.9	722.6	683.3	644.0
62.5°	1009.8	978.2	946.6	906.0	865.4	824.7	784.1	743.5	702.9	662.2	621.6
65°	997.8	965.3	932.8	891.1	849.4	807.6	765.9	724.2	682.5	640.7	599.0
67.5°	983.2	950.1	916.9	874.1	831.3	788.5	745.7	702.8	660.0	617.2	574.4
70°	964.8	931.0	897.2	853.7	810.2	766.8	723.3	679.8	636.3	592.9	549.4
72.5°	945.0	911.2	877.4	832.6	787.8	743.0	698.2	653.5	608.7	563.9	519.1
75°	919.8	885.7	851.7	806.9	762.1	717.3	672.5	627.8	583.0	538.2	493.4
77.5°	889.7	855.9	822.1	777.5	732.9	688.4	643.8	599.2	554.6	510.1	465.5
80°	857.2	823.9	790.5	746.4	702.2	658.1	614.0	569.8	525.7	481.6	437.4
82.5°	824.8	791.8	758.9	715.4	671.9	628.5	585.0	541.5	498.0	454.6	411.1
85°	791.3	759.3	727.2	684.4	641.6	598.8	556.0	513.1	470.3	427.5	384.7
87.5°	761.5	730.6	699.6	657.4	615.3	573.1	530.9	488.8	446.6	404.4	362.3
90°	732.5	702.2	671.9	630.8	589.8	548.7	507.7	466.6	425.6	384.5	343.5
92.5°	714.5	685.3	656.1	615.7	575.3	534.9	494.5	454.1	413.7	373.3	332.9
95°	697.4	668.8	640.3	600.3	560.4	520.4	480.4	440.5	400.5	360.5	320.6
97.5°	677.1	648.8	620.5	581.4	542.3	503.3	464.2	425.1	386.0	347.0	307.9
100°	656.6	628.7	600.8	562.6	524.4	486.2	448.0	409.7	371.5	333.3	295.1
102.5°	635.4	608.2	581.0	543.5	505.9	468.4	430.8	393.3	355.7	318.2	280.6
105°	614.8	588.0	561.2	524.3	487.4	450.5	413.6	376.8	339.9	303.0	266.1
107.5°	593.3	567.4	541.5	505.3	469.0	432.8	396.6	360.3	324.1	287.9	251.6
110°	569.8	544.7	519.7	484.1	448.6	413.0	377.4	341.9	306.3	270.7	235.2



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	547.9	523.9	500.0	464.6	429.3	393.9	358.6	323.2	287.9	252.5	217.2
115°	518.2	494.2	470.3	436.3	402.2	368.2	334.2	300.1	266.1	232.1	198.0
117.5°	492.3	469.4	446.6	413.2	379.8	346.5	313.1	279.7	246.3	213.0	179.6
120°	465.7	443.3	420.9	388.6	356.3	324.1	291.8	259.5	227.2	195.0	162.7
122.5°	437.8	416.5	395.2	364.2	333.3	302.3	271.4	240.4	209.5	178.5	147.6
125°	406.9	386.2	365.6	336.4	307.2	278.0	248.8	219.6	190.4	161.2	132.0
127.5°	373.3	352.6	332.0	305.0	278.0	251.0	224.0	196.9	169.9	142.9	115.9
130°	337.5	317.9	298.4	273.6	248.8	224.0	199.2	174.3	149.5	124.7	99.9
132.5°	302.1	283.5	264.8	242.6	220.4	198.3	176.1	153.9	131.7	109.6	87.4
135°	271.4	254.2	237.1	216.7	196.3	175.9	155.5	135.0	114.6	94.2	73.8
137.5°	240.2	224.9	209.5	190.8	172.2	153.5	134.8	116.2	97.5	78.8	60.2
140°	209.5	195.6	181.8	165.1	148.4	131.7	115.0	98.4	81.7	65.0	48.3
142.5°	181.1	168.6	156.1	141.4	126.7	112.0	97.3	82.5	67.8	53.1	38.4
145°	152.8	141.6	130.4	117.7	104.9	92.2	79.5	66.7	54.0	41.3	28.5
147.5°	128.5	118.6	108.7	97.7	86.7	75.8	64.8	53.8	42.8	31.9	20.9
150°	104.1	95.6	87.0	78.0	69.0	60.0	51.0	41.9	32.9	23.9	14.9
152.5°	80.1	72.7	65.2	58.2	51.2	44.1	37.1	30.1	23.1	16.0	9.0
155°	56.2	49.9	43.5	38.9	34.3	29.7	25.1	20.4	15.8	11.2	6.6
157.5°	36.2	31.0	25.7	22.8	20.0	17.1	14.3	11.4	8.6	5.7	2.9
160°	19.4	15.6	11.9	10.6	9.3	7.9	6.6	5.3	4.0	2.6	1.3
162.5°	7.9	6.0	4.0	3.6	3.1	2.7	2.2	1.8	1.3	0.9	0.4
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: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1082.9	1086.4	1089.9	1093.5	1097.0	1100.5	1104.0	1107.6	1111.1	1114.6	1114.4
5°	1067.1	1071.7	1076.3	1080.9	1085.5	1090.2	1094.8	1099.4	1104.0	1108.6	1109.9
7.5°	1049.3	1055.0	1060.7	1066.4	1072.1	1077.9	1083.6	1089.3	1095.0	1100.7	1103.6
10°	1031.6	1038.0	1044.3	1050.7	1057.1	1063.4	1069.8	1076.2	1082.5	1088.9	1093.5
12.5°	1007.8	1014.8	1021.9	1028.9	1035.9	1043.0	1050.0	1057.0	1064.1	1071.1	1077.7
15°	984.1	992.0	999.9	1007.8	1015.7	1023.7	1031.6	1039.5	1047.4	1055.3	1063.4
17.5°	956.5	965.1	973.6	982.2	990.7	999.3	1007.8	1016.4	1024.9	1033.5	1043.6
20°	930.8	939.4	947.9	956.5	965.0	973.6	982.1	990.7	999.2	1007.8	1020.3
22.5°	905.1	913.7	922.2	930.8	939.4	947.9	956.5	965.1	973.6	982.2	997.1
25°	877.4	885.7	894.1	902.4	910.8	919.1	927.5	935.8	944.2	952.5	969.8
27.5°	851.7	859.4	867.1	874.8	882.5	890.1	897.8	905.5	913.2	920.9	940.9
30°	828.0	834.6	841.2	847.8	854.4	860.9	867.5	874.1	880.7	887.3	910.1
32.5°	804.3	809.4	814.4	819.5	824.5	829.6	834.6	839.7	844.7	849.8	875.9
35°	786.5	789.4	792.2	795.1	797.9	800.8	803.6	806.5	809.3	812.2	841.6
37.5°	770.7	770.9	771.1	771.4	771.6	771.8	772.0	772.3	772.5	772.7	805.4
40°	756.9	754.3	751.6	749.0	746.4	743.7	741.1	738.5	735.8	733.2	769.2
42.5°	741.1	735.4	729.7	724.0	718.3	712.5	706.8	701.1	695.4	689.7	729.0
45°	725.3	716.7	708.2	699.6	691.0	682.5	673.9	665.3	656.8	648.2	690.6
47.5°	705.5	694.3	683.1	671.9	660.7	649.5	638.3	627.1	615.9	604.7	650.4
50°	687.7	673.4	659.2	644.9	630.6	616.4	602.1	587.8	573.6	559.3	608.3
52.5°	667.9	651.0	634.1	617.2	600.3	583.4	566.5	549.6	532.7	515.8	567.6
55°	648.2	628.2	608.2	588.3	568.3	548.3	528.3	508.4	488.4	468.4	523.5
57.5°	626.4	604.0	581.6	559.2	536.8	514.5	492.1	469.7	447.3	424.9	482.6
60°	604.7	579.9	555.1	530.3	505.5	480.6	455.8	431.0	406.2	381.4	442.0
62.5°	581.0	554.2	527.4	500.6	473.8	447.1	420.3	393.5	366.7	339.9	402.7
65°	557.3	528.3	499.3	470.3	441.3	412.4	383.4	354.4	325.4	296.4	361.4
67.5°	531.6	500.9	470.1	439.4	408.6	377.9	347.1	316.4	285.6	254.9	321.4
70°	505.9	473.4	440.9	408.4	375.9	343.4	310.9	278.4	245.9	213.4	281.7
72.5°	474.3	440.9	407.5	374.2	340.8	307.4	274.0	240.7	207.3	173.9	243.1
75°	448.6	413.9	379.2	344.5	309.8	275.2	240.5	205.8	171.1	136.4	206.0
77.5°	420.9	385.6	350.2	314.9	279.5	244.2	208.8	173.5	138.1	102.8	172.4
80°	393.3	357.5	321.7	285.9	250.1	214.3	178.5	142.7	106.9	71.1	140.1
82.5°	367.6	331.6	295.6	259.6	223.6	187.5	151.5	115.5	79.5	43.5	111.3
85°	341.9	306.3	270.7	235.2	199.6	164.0	128.4	92.9	57.3	21.7	88.0
87.5°	320.1	285.4	250.7	216.0	181.3	146.7	112.0	77.3	42.6	7.9	72.0
90°	302.4	268.8	235.2	201.6	168.0	134.4	100.8	67.2	33.6	0.0	61.7
92.5°	292.5	260.2	227.9	195.7	163.4	131.1	98.8	66.6	34.3	2.0	60.8
95°	280.6	249.6	218.7	187.7	156.8	125.8	94.9	63.9	33.0	2.0	58.0
97.5°	268.8	239.2	209.5	179.9	150.2	120.6	90.9	61.3	31.6	2.0	54.5
100°	256.9	228.6	200.3	171.9	143.6	115.3	87.0	58.6	30.3	2.0	51.4
102.5°	243.1	216.1	189.1	162.1	135.1	108.0	81.0	54.0	27.0	0.0	46.3
105°	229.2	204.0	178.7	153.5	128.2	103.0	77.7	52.5	27.2	2.0	44.8
107.5°	215.4	191.7	168.0	144.3	120.6	96.8	73.1	49.4	25.7	2.0	41.5
110°	199.6	177.6	155.7	133.7	111.8	89.8	67.9	45.9	24.0	2.0	38.2



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	181.8	161.8	141.8	121.9	101.9	81.9	61.9	42.0	22.0	2.0	34.9
115°	164.0	146.0	128.0	110.0	92.0	74.0	56.0	38.0	20.0	2.0	31.6
117.5°	146.2	130.2	114.2	98.1	82.1	66.1	50.1	34.0	18.0	2.0	28.3
120°	130.4	116.1	101.9	87.6	73.3	59.1	44.8	30.5	16.3	2.0	25.3
122.5°	116.6	103.9	91.1	78.4	65.7	52.9	40.2	27.5	14.7	2.0	22.4
125°	102.8	91.6	80.4	69.2	58.0	46.8	35.6	24.4	13.2	2.0	19.6
127.5°	88.9	79.2	69.6	59.9	50.3	40.6	31.0	21.3	11.7	2.0	16.7
130°	75.1	67.0	58.9	50.7	42.6	34.5	26.4	18.2	10.1	2.0	14.1
132.5°	65.2	58.2	51.2	44.1	37.1	30.1	23.1	16.0	9.0	2.0	11.9
135°	53.4	47.7	42.0	36.3	30.6	24.8	19.1	13.4	7.7	2.0	9.7
137.5°	41.5	37.1	32.7	28.3	23.9	19.6	15.2	10.8	6.4	2.0	7.7
140°	31.6	28.3	25.0	21.7	18.4	15.2	11.9	8.6	5.3	2.0	6.2
142.5°	23.7	21.3	18.9	16.5	14.1	11.6	9.2	6.8	4.4	2.0	4.9
145°	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5	2.0	4.2
147.5°	9.9	9.0	8.1	7.3	6.4	5.5	4.6	3.8	2.9	2.0	3.8
150°	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4	2.0	3.3
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
157.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.4
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: P201405

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1114.2	1113.9	1113.7	1113.5	1113.3	1113.0	1112.8	1112.6	1113.7	1114.8	1115.9
5°	1111.2	1112.6	1113.9	1115.2	1116.5	1117.9	1119.2	1120.5	1123.1	1125.8	1128.4
7.5°	1106.4	1109.3	1112.1	1115.0	1117.8	1120.7	1123.5	1126.4	1130.6	1134.8	1138.9
10°	1098.1	1102.7	1107.3	1112.0	1116.6	1121.2	1125.8	1130.4	1136.5	1142.7	1148.8
12.5°	1084.3	1090.9	1097.5	1104.0	1110.6	1117.2	1123.8	1130.4	1139.0	1147.5	1156.1
15°	1071.5	1079.7	1087.8	1095.9	1104.0	1112.2	1120.3	1128.4	1139.8	1151.2	1162.7
17.5°	1053.7	1063.8	1073.9	1084.0	1094.1	1104.2	1114.3	1124.4	1139.3	1154.3	1169.2
20°	1032.8	1045.4	1057.9	1070.4	1082.9	1095.5	1108.0	1120.5	1139.4	1158.3	1177.1
22.5°	1012.0	1027.0	1041.9	1056.8	1071.7	1086.7	1101.6	1116.5	1139.1	1161.7	1184.4
25°	987.2	1004.5	1021.9	1039.2	1056.6	1073.9	1091.3	1108.6	1135.2	1161.8	1188.3
27.5°	960.9	980.8	1000.8	1020.8	1040.8	1060.7	1080.7	1100.7	1131.2	1161.7	1192.3
30°	933.0	955.8	978.6	1001.5	1024.3	1047.1	1070.0	1092.8	1127.1	1161.3	1195.6
32.5°	902.0	928.2	954.3	980.4	1006.5	1032.7	1058.8	1084.9	1122.4	1160.0	1197.5
35°	871.0	900.5	929.9	959.3	988.7	1018.2	1047.6	1077.0	1117.8	1158.7	1199.5
37.5°	838.1	870.8	903.5	936.3	969.0	1001.7	1034.4	1067.1	1111.5	1155.8	1200.2
40°	805.2	841.2	877.2	913.3	949.3	985.3	1021.3	1057.3	1104.9	1152.6	1200.2
42.5°	768.3	807.6	846.9	886.2	925.5	964.8	1004.1	1043.4	1094.6	1145.7	1196.9
45°	733.0	775.3	817.7	860.1	902.5	944.8	987.2	1029.6	1084.3	1139.0	1193.6
47.5°	696.1	741.7	787.4	833.1	878.8	924.4	970.1	1015.8	1073.8	1131.7	1189.7
50°	657.2	706.2	755.1	804.1	853.0	902.0	950.9	999.9	1061.2	1122.4	1183.7
52.5°	619.4	671.3	723.1	774.9	826.7	878.6	930.4	982.2	1046.8	1111.3	1175.9
55°	578.6	633.7	688.8	744.0	799.1	854.2	909.3	964.4	1032.7	1101.0	1169.3
57.5°	540.4	598.1	655.9	713.6	771.4	829.1	886.9	944.6	1016.6	1088.6	1160.7
60°	502.6	563.2	623.8	684.4	745.0	805.6	866.2	926.8	1002.6	1078.3	1154.1
62.5°	465.5	528.3	591.1	653.9	716.7	779.5	842.3	905.1	984.6	1064.1	1143.6
65°	426.4	491.4	556.4	621.4	686.4	751.4	816.4	881.4	964.6	1047.8	1131.0
67.5°	388.0	454.5	521.0	587.6	654.1	720.6	787.2	853.7	940.4	1027.2	1113.9
70°	350.0	418.3	486.6	554.8	623.1	691.4	759.7	828.0	917.1	1006.3	1095.4
72.5°	312.2	381.4	450.6	519.7	588.9	658.1	727.2	796.4	887.1	977.8	1068.5
75°	275.6	345.2	414.8	484.4	554.0	623.6	693.2	762.8	853.7	944.6	1035.5
77.5°	242.0	311.6	381.2	450.8	520.4	590.0	659.6	729.2	819.2	909.2	999.3
80°	209.0	278.0	346.9	415.9	484.8	553.8	622.7	691.7	779.7	867.8	955.8
82.5°	179.2	247.0	314.9	382.7	450.6	518.4	586.3	654.1	740.0	825.8	911.7
85°	154.3	220.6	286.9	353.3	419.6	485.9	552.2	618.5	701.3	784.1	866.9
87.5°	136.1	200.2	264.3	328.5	392.6	456.7	520.8	584.9	664.8	744.8	824.7
90°	123.4	185.1	246.8	308.5	370.2	431.9	493.6	555.3	632.4	709.4	786.5
92.5°	119.7	178.5	237.4	296.2	355.1	413.9	472.8	531.6	606.3	680.9	755.6
95°	114.0	170.0	226.0	281.9	337.9	393.9	449.9	505.9	578.4	650.8	723.3
97.5°	107.0	159.4	211.9	264.4	316.9	369.3	421.8	474.3	545.4	616.6	687.7
100°	100.8	150.2	199.6	249.0	298.4	347.8	397.2	446.6	516.4	586.2	656.1
102.5°	92.7	139.0	185.3	231.7	278.0	324.3	370.7	417.0	485.3	553.6	621.9
105°	87.6	130.4	173.2	216.1	258.9	301.7	344.5	387.3	453.8	520.4	586.9
107.5°	81.0	120.6	160.1	199.6	239.1	278.7	318.2	357.7	422.5	487.3	552.0
110°	74.4	110.7	146.9	183.1	219.3	255.6	291.8	328.0	391.0	454.0	517.1



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	67.9	100.8	133.7	166.7	199.6	232.5	265.5	298.4	359.7	420.9	482.2
115°	61.3	90.9	120.6	150.2	179.9	209.5	239.2	268.8	327.9	386.9	446.0
117.5°	54.7	81.0	107.4	133.7	160.1	186.4	212.8	239.1	296.2	353.3	410.4
120°	48.6	71.8	95.1	118.4	141.7	164.9	188.2	211.5	266.2	320.8	375.5
122.5°	42.8	63.3	83.7	104.1	124.5	145.0	165.4	185.8	237.4	289.0	340.6
125°	37.1	54.7	72.3	89.8	107.4	125.0	142.5	160.1	208.4	256.7	305.0
127.5°	31.4	46.1	60.8	75.6	90.3	105.0	119.7	134.4	178.8	223.1	267.5
130°	26.2	38.2	50.3	62.4	74.5	86.5	98.6	110.7	149.3	188.0	226.6
132.5°	21.8	31.6	41.5	51.4	61.3	71.1	81.0	90.9	124.5	158.1	191.7
135°	17.4	25.0	32.7	40.4	48.1	55.7	63.4	71.1	100.1	129.1	158.1
137.5°	13.4	19.1	24.8	30.6	36.3	42.0	47.7	53.4	78.4	103.4	128.5
140°	10.3	14.5	18.7	22.8	27.0	31.2	35.3	39.5	60.8	82.1	103.4
142.5°	7.7	10.6	13.4	16.3	19.1	22.0	24.8	27.7	45.7	63.7	81.7
145°	6.4	8.6	10.8	12.9	15.1	17.3	19.5	21.7	36.4	51.1	65.8
147.5°	5.5	7.3	9.0	10.8	12.5	14.3	16.0	17.8	29.4	41.1	52.7
150°	4.6	5.9	7.2	8.6	9.9	11.2	12.5	13.8	22.6	31.4	40.2
152.5°	4.2	5.3	6.4	7.5	8.6	9.7	10.8	11.9	18.0	24.2	30.3
155°	3.3	4.0	4.6	5.3	5.9	6.6	7.2	7.9	12.1	16.3	20.4
157.5°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	8.3	10.7	13.2
160°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	5.3	6.6	7.9
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: P201405

CATALOG NUMBER: 8LBLELD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1117.0	1118.1	1119.2	1120.3	1121.4	1122.5	1122.7	1122.9	1123.1	1123.3	1123.6
5°	1131.0	1133.7	1136.3	1138.9	1141.6	1144.2	1145.5	1146.8	1148.2	1149.5	1150.8
7.5°	1143.1	1147.3	1151.5	1155.6	1159.8	1164.0	1166.9	1169.7	1172.6	1175.4	1178.3
10°	1155.0	1161.1	1167.3	1173.4	1179.6	1185.7	1190.3	1194.9	1199.5	1204.1	1208.8
12.5°	1164.6	1173.2	1181.7	1190.3	1198.8	1207.4	1214.4	1221.5	1228.5	1235.5	1242.6
15°	1174.1	1185.5	1196.9	1208.4	1219.8	1231.2	1240.9	1250.5	1260.2	1269.8	1279.5
17.5°	1184.1	1199.1	1214.0	1228.9	1243.9	1258.8	1271.3	1283.8	1296.4	1308.9	1321.4
20°	1196.0	1214.9	1233.8	1252.6	1271.5	1290.4	1305.1	1319.8	1334.5	1349.2	1364.0
22.5°	1207.0	1229.6	1252.2	1274.9	1297.5	1320.1	1337.0	1353.9	1370.8	1387.7	1404.6
25°	1214.9	1241.5	1268.1	1294.6	1321.2	1347.8	1367.3	1386.9	1406.4	1425.9	1445.5
27.5°	1222.8	1253.3	1283.8	1314.4	1344.9	1375.4	1396.7	1418.0	1439.3	1460.6	1481.9
30°	1229.8	1264.1	1298.3	1332.6	1366.8	1401.1	1424.6	1448.1	1471.6	1495.1	1518.6
32.5°	1235.1	1272.6	1310.2	1347.7	1385.3	1422.8	1448.9	1475.1	1501.2	1527.3	1553.5
35°	1240.4	1281.2	1322.1	1362.9	1403.8	1444.6	1473.6	1502.6	1531.5	1560.5	1589.5
37.5°	1244.5	1288.9	1333.2	1377.6	1421.9	1466.3	1497.7	1529.1	1560.5	1591.9	1623.3
40°	1247.9	1295.5	1343.2	1390.8	1438.5	1486.1	1520.6	1555.0	1589.5	1624.0	1658.4
42.5°	1248.1	1299.2	1350.4	1401.6	1452.7	1503.9	1541.4	1579.0	1616.5	1654.1	1691.6
45°	1248.3	1303.0	1357.7	1412.3	1467.0	1521.7	1562.8	1603.8	1644.9	1685.9	1727.0
47.5°	1247.7	1305.6	1363.6	1421.6	1479.5	1537.5	1582.3	1627.1	1671.9	1716.7	1761.4
50°	1245.0	1306.2	1367.5	1428.8	1490.0	1551.3	1600.7	1650.1	1699.5	1748.9	1798.3
52.5°	1240.4	1305.0	1369.5	1434.1	1498.6	1563.2	1617.0	1670.8	1724.6	1778.4	1832.1
55°	1237.6	1305.8	1374.1	1442.4	1510.7	1579.0	1637.0	1694.9	1752.9	1810.9	1868.8
57.5°	1232.7	1304.7	1376.7	1448.8	1520.8	1592.8	1655.2	1717.5	1779.9	1842.2	1904.6
60°	1229.8	1305.6	1381.3	1457.1	1532.8	1608.6	1674.3	1739.9	1805.6	1871.2	1936.9
62.5°	1223.1	1302.5	1382.0	1461.5	1541.0	1620.5	1689.4	1758.4	1827.3	1896.3	1965.2
65°	1214.2	1297.5	1380.7	1463.9	1547.1	1630.3	1701.7	1773.0	1844.4	1915.8	1987.1
67.5°	1200.6	1287.4	1374.1	1460.8	1547.6	1634.3	1707.6	1781.0	1854.3	1927.6	2001.0
70°	1184.6	1273.7	1362.9	1452.0	1541.2	1630.3	1704.5	1778.7	1853.0	1927.2	2001.4
72.5°	1159.2	1249.8	1340.5	1431.2	1521.9	1612.6	1687.0	1761.5	1835.9	1910.3	1984.8
75°	1126.4	1217.3	1308.2	1399.1	1490.0	1580.9	1654.7	1728.5	1802.2	1876.0	1949.8
77.5°	1089.3	1179.3	1269.3	1359.4	1449.4	1539.4	1611.2	1683.0	1754.8	1826.6	1898.4
80°	1043.9	1131.9	1220.0	1308.0	1396.1	1484.1	1553.7	1623.3	1692.9	1762.5	1832.2
82.5°	997.5	1083.4	1169.2	1255.1	1340.9	1426.8	1493.8	1560.7	1627.7	1694.7	1761.6
85°	949.7	1032.4	1115.2	1198.0	1280.8	1363.6	1428.2	1492.7	1557.3	1621.8	1686.4
87.5°	904.6	984.6	1064.5	1144.4	1224.4	1304.3	1366.2	1428.1	1490.1	1552.0	1613.9
90°	863.6	940.6	1017.7	1094.8	1171.8	1248.9	1308.2	1367.5	1426.8	1486.1	1545.3
92.5°	830.2	904.9	979.5	1054.2	1128.8	1203.5	1260.4	1317.2	1374.1	1431.0	1487.8
95°	795.7	868.2	940.6	1013.1	1085.5	1158.0	1213.1	1268.2	1323.4	1378.5	1433.6
97.5°	758.9	830.0	901.2	972.3	1043.5	1114.6	1167.5	1220.4	1273.3	1326.2	1379.2
100°	725.9	795.7	865.5	935.4	1005.2	1075.0	1126.2	1177.3	1228.5	1279.7	1330.8
102.5°	690.2	758.4	826.7	895.0	963.3	1031.6	1081.4	1131.3	1181.1	1231.0	1280.8
105°	653.4	720.0	786.5	853.0	919.6	986.1	1035.1	1084.0	1133.0	1182.0	1230.9
107.5°	616.8	681.6	746.4	811.1	875.9	940.7	988.3	1036.0	1083.6	1131.3	1178.9
110°	580.1	643.1	706.1	769.2	832.2	895.2	941.5	987.9	1034.2	1080.5	1126.9



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	543.5	604.7	666.0	727.3	788.5	849.8	894.4	938.9	983.5	1028.1	1072.6
115°	505.1	564.1	623.2	682.3	741.3	800.4	843.4	886.5	929.5	972.5	1015.6
117.5°	467.5	524.5	581.6	638.7	695.8	752.9	794.2	835.5	876.7	918.0	959.3
120°	430.2	484.8	539.5	594.2	648.8	703.5	743.0	782.5	822.1	861.6	901.1
122.5°	392.2	443.8	495.4	547.0	598.6	650.2	688.2	726.2	764.1	802.1	840.1
125°	353.3	401.6	449.9	498.2	546.5	594.8	631.7	668.6	705.5	742.4	779.2
127.5°	311.8	356.2	400.5	444.9	489.2	533.6	569.8	606.0	642.3	678.5	714.7
130°	265.3	303.9	342.6	381.2	419.9	458.5	495.2	531.8	568.5	605.2	641.8
132.5°	225.3	258.9	292.5	326.1	359.7	393.3	429.5	465.7	502.0	538.2	574.4
135°	187.1	216.0	245.0	274.0	303.0	332.0	366.9	401.8	436.7	471.6	506.6
137.5°	153.5	178.5	203.5	228.6	253.6	278.6	310.7	342.7	374.8	406.9	438.9
140°	124.7	146.0	167.3	188.6	209.9	231.2	258.0	284.8	311.6	338.4	365.1
142.5°	99.7	117.7	135.7	153.7	171.7	189.7	213.2	236.7	260.2	283.7	307.2
145°	80.5	95.3	110.0	124.7	139.4	154.1	173.4	192.7	212.1	231.4	250.7
147.5°	64.3	76.0	87.6	99.2	110.9	122.5	138.3	154.1	169.9	185.7	201.6
150°	49.0	57.7	66.5	75.3	84.1	92.9	105.4	117.9	130.4	142.9	155.5
152.5°	36.5	42.6	48.8	54.9	61.1	67.2	77.3	87.4	97.5	107.6	117.7
155°	24.6	28.8	33.0	37.1	41.3	45.5	53.4	61.3	69.2	77.1	85.0
157.5°	15.6	18.0	20.4	22.9	25.3	27.7	33.4	39.1	44.8	50.5	56.2
160°	9.2	10.6	11.9	13.2	14.5	15.8	19.3	22.8	26.3	29.8	33.4
162.5°	4.6	5.3	5.9	6.6	7.2	7.9	9.7	11.4	13.2	14.9	16.7
165°	2.9	3.1	3.3	3.6	3.8	4.0	4.7	5.3	6.0	6.6	7.3
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: P201405

CATALOG NUMBER: 8LBLEDD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1123.8	1124.0	1124.2	1124.4	1123.3	1122.2	1121.1	1120.0	1119.0	1117.9	1116.8
5°	1152.1	1153.5	1154.8	1156.1	1155.9	1155.7	1155.4	1155.2	1155.0	1154.8	1154.5
7.5°	1181.1	1184.0	1186.8	1189.7	1190.6	1191.5	1192.3	1193.2	1194.1	1195.0	1195.8
10°	1213.4	1218.0	1222.6	1227.2	1228.3	1229.4	1230.5	1231.6	1232.7	1233.8	1234.9
12.5°	1249.6	1256.6	1263.7	1270.7	1272.9	1275.1	1277.3	1279.5	1281.6	1283.8	1286.0
15°	1289.1	1298.8	1308.4	1318.1	1321.8	1325.6	1329.3	1333.0	1336.8	1340.5	1344.2
17.5°	1333.9	1346.5	1359.0	1371.5	1375.9	1380.3	1384.7	1389.1	1393.4	1397.8	1402.2
20°	1378.7	1393.4	1408.1	1422.8	1427.9	1432.9	1438.0	1443.0	1448.1	1453.1	1458.2
22.5°	1421.5	1438.4	1455.3	1472.2	1478.1	1484.1	1490.0	1495.9	1501.9	1507.8	1513.7
25°	1465.0	1484.5	1504.1	1523.6	1530.0	1536.3	1542.7	1549.1	1555.4	1561.8	1568.2
27.5°	1503.2	1524.5	1545.8	1567.1	1574.1	1581.1	1588.2	1595.2	1602.2	1609.2	1616.3
30°	1542.1	1565.6	1589.1	1612.6	1620.7	1628.8	1637.0	1645.1	1653.2	1661.3	1669.5
32.5°	1579.6	1605.7	1631.9	1658.0	1667.4	1676.9	1686.3	1695.8	1705.2	1714.7	1724.1
35°	1618.5	1647.4	1676.4	1705.4	1715.9	1726.5	1737.0	1747.6	1758.1	1768.7	1779.2
37.5°	1654.7	1686.1	1717.5	1748.9	1761.2	1773.5	1785.8	1798.1	1810.4	1822.7	1835.0
40°	1692.9	1727.4	1761.8	1796.3	1810.1	1824.0	1837.8	1851.6	1865.5	1879.3	1893.1
42.5°	1729.2	1766.7	1804.3	1841.8	1857.4	1873.0	1888.6	1904.2	1919.7	1935.3	1950.9
45°	1768.0	1809.1	1850.1	1891.2	1908.3	1925.4	1942.6	1959.7	1976.8	1993.9	2011.1
47.5°	1806.2	1851.0	1895.8	1940.6	1959.9	1979.2	1998.6	2017.9	2037.2	2056.5	2075.9
50°	1847.7	1897.1	1946.5	1995.9	2016.8	2037.6	2058.5	2079.4	2100.2	2121.1	2142.0
52.5°	1885.9	1939.7	1993.5	2047.3	2070.1	2093.0	2115.8	2138.6	2161.5	2184.3	2207.1
55°	1926.8	1984.8	2042.7	2100.7	2125.3	2149.9	2174.5	2199.1	2223.6	2248.2	2272.8
57.5°	1966.9	2029.3	2091.6	2154.0	2179.7	2205.4	2231.1	2256.8	2282.4	2308.1	2333.8
60°	2002.5	2068.2	2133.8	2199.5	2226.3	2253.1	2279.9	2306.7	2333.4	2360.2	2387.0
62.5°	2034.2	2103.1	2172.1	2241.0	2268.2	2295.4	2322.7	2349.9	2377.1	2404.3	2431.6
65°	2058.5	2129.9	2201.2	2272.6	2300.0	2327.5	2354.9	2382.4	2409.8	2437.3	2464.7
67.5°	2074.3	2147.6	2221.0	2294.3	2321.8	2349.2	2376.7	2404.1	2431.6	2459.0	2486.5
70°	2075.6	2149.9	2224.1	2298.3	2325.7	2353.2	2380.6	2408.1	2435.5	2463.0	2490.4
72.5°	2059.2	2133.6	2208.1	2282.5	2309.5	2336.5	2363.5	2390.5	2417.5	2444.5	2471.5
75°	2023.6	2097.3	2171.1	2244.9	2271.5	2298.0	2324.6	2351.2	2377.7	2404.3	2430.9
77.5°	1970.2	2042.0	2113.8	2185.6	2211.3	2237.0	2262.7	2288.4	2314.1	2339.8	2365.5
80°	1901.8	1971.4	2041.0	2110.6	2135.4	2160.2	2185.0	2209.8	2234.7	2259.5	2284.3
82.5°	1828.6	1895.6	1962.5	2029.5	2053.4	2077.4	2101.3	2125.2	2149.2	2173.1	2197.0
85°	1750.9	1815.5	1880.0	1944.6	1968.1	1991.6	2015.1	2038.6	2062.0	2085.5	2109.0
87.5°	1675.8	1737.8	1799.7	1861.6	1884.4	1907.3	1930.1	1952.9	1975.8	1998.6	2021.4
90°	1604.6	1663.9	1723.2	1782.5	1804.7	1826.9	1849.0	1871.2	1893.4	1915.6	1937.7
92.5°	1544.7	1601.6	1658.4	1715.3	1736.6	1757.9	1779.2	1800.5	1821.8	1843.1	1864.4
95°	1488.7	1543.9	1599.0	1654.1	1673.9	1693.6	1713.4	1733.1	1752.9	1772.6	1792.4
97.5°	1432.1	1485.0	1537.9	1590.8	1609.9	1629.0	1648.1	1667.2	1686.3	1705.4	1724.5
100°	1382.0	1433.2	1484.3	1535.5	1553.7	1571.9	1590.2	1608.4	1626.6	1644.8	1663.1
102.5°	1330.7	1380.5	1430.4	1480.2	1498.0	1515.8	1533.5	1551.3	1569.1	1586.9	1604.6
105°	1279.9	1328.9	1377.8	1426.8	1443.9	1461.0	1478.2	1495.3	1512.4	1529.5	1546.7
107.5°	1226.6	1274.2	1321.9	1369.5	1386.6	1403.7	1420.9	1438.0	1455.1	1472.2	1489.4
110°	1173.2	1219.5	1265.9	1312.2	1329.1	1346.0	1362.9	1379.8	1396.7	1413.6	1430.5



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1117.2	1161.8	1206.3	1250.9	1267.4	1283.8	1300.3	1316.8	1333.2	1349.7	1366.2
115°	1058.6	1101.6	1144.7	1187.7	1203.5	1219.3	1235.1	1250.9	1266.8	1282.6	1298.4
117.5°	1000.6	1041.8	1083.1	1124.4	1139.6	1154.7	1169.9	1185.0	1200.2	1215.3	1230.5
120°	940.6	980.2	1019.7	1059.2	1073.9	1088.6	1103.3	1118.0	1132.8	1147.5	1162.2
122.5°	878.1	916.0	954.0	992.0	1005.6	1019.2	1032.9	1046.5	1060.1	1073.7	1087.4
125°	816.1	853.0	889.9	926.8	940.6	954.5	968.3	982.1	996.0	1009.8	1023.6
127.5°	750.9	787.2	823.4	859.6	872.8	886.0	899.1	912.3	925.5	938.7	951.8
130°	678.5	715.2	751.8	788.5	800.6	812.7	824.7	836.8	848.9	861.0	873.0
132.5°	610.6	646.9	683.1	719.3	730.5	741.7	752.9	764.1	775.3	786.5	797.7
135°	541.5	576.4	611.3	646.2	657.6	669.0	680.5	691.9	703.3	714.7	726.2
137.5°	471.0	503.1	535.1	567.2	578.6	590.0	601.4	612.8	624.3	635.7	647.1
140°	391.9	418.7	445.5	472.3	485.3	498.2	511.2	524.1	537.1	550.0	563.0
142.5°	330.7	354.2	377.7	401.2	414.6	428.0	441.4	454.8	468.1	481.5	494.9
145°	270.0	289.4	308.7	328.0	341.0	353.9	366.9	379.8	392.8	405.7	418.7
147.5°	217.4	233.2	249.0	264.8	277.5	290.3	303.0	315.7	328.5	341.2	353.9
150°	168.0	180.5	193.0	205.5	217.8	230.1	242.4	254.7	267.0	279.3	291.6
152.5°	127.8	137.9	148.0	158.1	169.3	180.5	191.7	202.9	214.1	225.3	236.5
155°	92.9	100.8	108.7	116.6	126.5	136.4	146.2	156.1	166.0	175.9	185.7
157.5°	61.9	67.6	73.3	79.0	87.6	96.1	104.7	113.3	121.8	130.4	139.0
160°	36.9	40.4	43.9	47.4	53.8	60.1	66.5	72.9	79.2	85.6	92.0
162.5°	18.4	20.2	21.9	23.7	27.7	31.6	35.6	39.5	43.5	47.4	51.4
165°	7.9	8.6	9.2	9.9	11.9	13.9	15.8	17.8	19.8	21.8	23.7
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: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1094.8	1094.8
2.5°	1115.7	1114.6
5°	1154.3	1154.1
7.5°	1196.7	1197.6
10°	1236.0	1237.1
12.5°	1288.2	1290.4
15°	1348.0	1351.7
17.5°	1406.6	1411.0
20°	1463.2	1468.3
22.5°	1519.7	1525.6
25°	1574.5	1580.9
27.5°	1623.3	1630.3
30°	1677.6	1685.7
32.5°	1733.6	1743.0
35°	1789.8	1800.3
37.5°	1847.3	1859.6
40°	1907.0	1920.8
42.5°	1966.5	1982.1
45°	2028.2	2045.3
47.5°	2095.2	2114.5
50°	2162.8	2183.7
52.5°	2230.0	2252.8
55°	2297.4	2322.0
57.5°	2359.5	2385.2
60°	2413.8	2440.6
62.5°	2458.8	2486.0
65°	2492.2	2519.6
67.5°	2513.9	2541.4
70°	2517.9	2545.3
72.5°	2498.5	2525.5
75°	2457.4	2484.0
77.5°	2391.2	2416.9
80°	2309.1	2333.9
82.5°	2221.0	2244.9
85°	2132.5	2156.0
87.5°	2044.3	2067.1
90°	1959.9	1982.1
92.5°	1885.7	1907.0
95°	1812.1	1831.9
97.5°	1743.6	1762.7
100°	1681.3	1699.5
102.5°	1622.4	1640.2
105°	1563.8	1580.9
107.5°	1506.5	1523.6
110°	1447.4	1464.3



TEST NUMBER: P201405

CATALOG NUMBER: 8LBLED-LD4-10-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1382.6	1399.1
115°	1314.2	1330.0
117.5°	1245.6	1260.8
120°	1176.9	1191.6
122.5°	1101.0	1114.6
125°	1037.5	1051.3
127.5°	965.0	978.2
130°	885.1	897.2
132.5°	808.9	820.1
135°	737.6	749.0
137.5°	658.5	669.9
140°	575.9	588.9
142.5°	508.3	521.7
145°	431.6	444.6
147.5°	366.7	379.4
150°	303.9	316.2
152.5°	247.7	258.9
155°	195.6	205.5
157.5°	147.5	156.1
160°	98.3	104.7
162.5°	55.3	59.3
165°	25.7	27.7
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)