

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: P201392

Luminaire Tested: **8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28239)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-10-ASYMF-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 7000 lm, Frst Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT50W01080CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11316.6 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.79
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

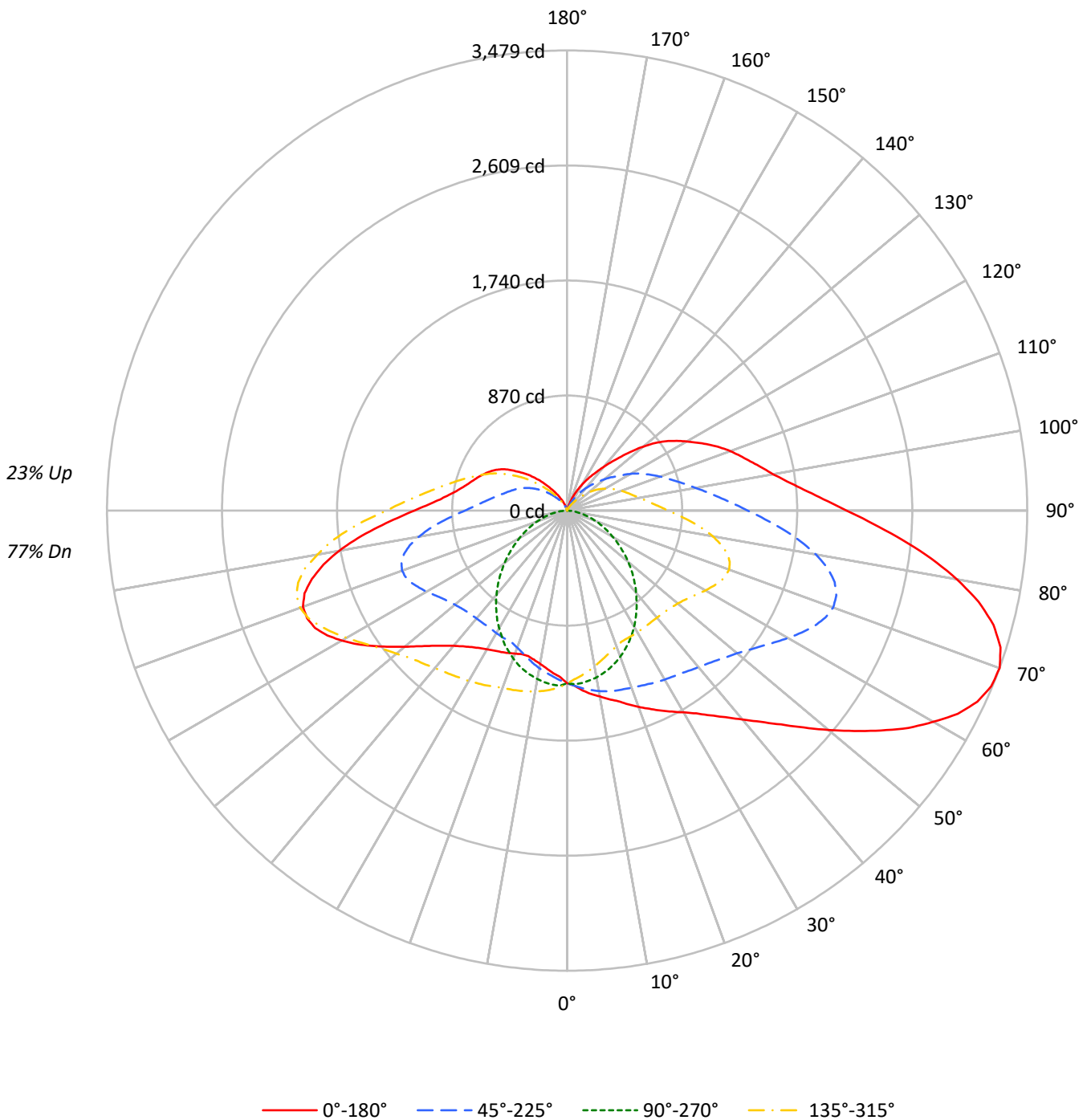
Input Watts (W): 75.28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	62	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	46	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	36	42	37	33	29
4	70	55	45	37	65	52	43	35	47	39	32	42	35	29	37	31	27	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	24	32	27	22	19
6	58	43	33	26	54	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	29	23	18	26	20	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	13	10
10	43	29	21	15	41	28	20	15	25	18	13	23	17	12	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10519	10519	10519	10519
5°	9964	10552	8987	10653
10°	9572	10428	7887	10530
15°	9330	10242	7118	10364
20°	9319	9987	6789	10112
25°	9377	9666	6636	9814
30°	9534	9282	6556	9416
35°	9926	8832	6617	9013
40°	10599	8356	6865	8549
45°	11604	7854	7336	8039
50°	13016	7301	8075	7529
55°	14648	6716	9022	6943
60°	16306	6129	10037	6421
65°	17765	5592	10920	5894
70°	18535	5015	11324	5336
75°	18392	4273	11012	4750
80°	17227	3469	10076	4060
85°	15436	2238	8696	3128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.1
10°-20°	361.5	3.2
20°-30°	583.5	5.2
30°-40°	792.3	7.0
40°-50°	1020.0	9.0
50°-60°	1306.2	11.5
60°-70°	1596.9	14.1
70°-80°	1627.7	14.4
80°-90°	1270.8	11.2
90°-100°	885.7	7.8
100°-110°	658.8	5.8
110°-120°	489.7	4.3
120°-130°	327.0	2.9
130°-140°	176.1	1.6
140°-150°	73.3	0.6
150°-160°	21.2	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1068.9	9.4
0°-40°	1861.2	16.4
0°-60°	4187.3	37.0
0°-90°	8682.8	76.7
90°-120°	2034.2	18.0
90°-150°	2610.6	23.1
90°-180°	2634.0	23.3
0°-180°	11316.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1306	1306	1306	1306	1306	
5°	1366	1308	1232	1320	1366	132
15°	1492	1236	1138	1251	1492	427
25°	1668	1100	1180	1117	1668	775
35°	1889	914	1260	933	1889	1195
45°	2287	707	1446	724	2287	1787
55°	2898	496	1785	513	2898	2603
65°	3421	310	2103	326	3421	3366
75°	3337	151	1998	167	3337	3488
85°	2544	31	1433	44	2544	2171
90°	2113	0	1155	2	2113	1162
95°	1797	0	964	2	1797	1426
105°	1435	0	776	2	1435	1524
115°	1180	0	674	2	1180	1173
125°	914	0	540	2	914	817
135°	578	0	354	2	578	456
145°	320	0	186	2	320	206
155°	146	0	75	2	146	71
165°	19	0	13	2	19	8
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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1326.5	1326.3	1326.0	1325.8	1325.6	1325.3	1325.1	1324.9	1324.6	1324.4	1324.6
5°	1366.2	1364.8	1363.4	1362.0	1360.6	1359.3	1357.9	1356.5	1355.1	1353.7	1353.2
7.5°	1399.7	1397.6	1395.5	1393.4	1391.3	1389.3	1387.2	1385.1	1383.0	1380.9	1379.5
10°	1426.9	1424.8	1422.7	1420.6	1418.5	1416.5	1414.4	1412.3	1410.2	1408.1	1405.5
12.5°	1460.4	1457.4	1454.4	1451.3	1448.3	1445.3	1442.3	1439.2	1436.2	1433.2	1429.5
15°	1491.8	1488.5	1485.3	1482.0	1478.8	1475.5	1472.3	1469.0	1465.8	1462.5	1456.7
17.5°	1535.7	1531.1	1526.4	1521.8	1517.1	1512.5	1507.8	1503.2	1498.5	1493.9	1485.3
20°	1579.7	1573.9	1568.1	1562.2	1556.4	1550.6	1544.8	1538.9	1533.1	1527.3	1515.9
22.5°	1621.5	1614.8	1608.0	1601.3	1594.5	1587.8	1581.0	1574.3	1567.5	1560.8	1546.9
25°	1667.5	1659.8	1652.2	1644.5	1636.8	1629.2	1621.5	1613.8	1606.2	1598.5	1581.8
27.5°	1713.6	1704.8	1695.9	1687.1	1678.3	1669.4	1660.6	1651.8	1642.9	1634.1	1615.0
30°	1761.7	1751.9	1742.2	1732.4	1722.6	1712.9	1703.1	1693.3	1683.6	1673.8	1651.7
32.5°	1818.2	1807.0	1795.9	1784.7	1773.5	1762.4	1751.2	1740.0	1728.9	1717.7	1692.1
35°	1889.3	1875.4	1861.4	1847.5	1833.5	1819.6	1805.6	1791.7	1777.7	1763.8	1734.7
37.5°	1968.8	1952.5	1936.3	1920.0	1903.7	1887.5	1871.2	1854.9	1838.7	1822.4	1789.2
40°	2060.9	2042.1	2023.2	2004.4	1985.6	1966.7	1947.9	1929.1	1910.2	1891.4	1853.0
42.5°	2165.5	2143.9	2122.3	2100.6	2079.0	2057.4	2035.8	2014.1	1992.5	1970.9	1926.3
45°	2286.8	2262.2	2237.5	2212.9	2188.3	2163.6	2139.0	2114.4	2089.7	2065.1	2013.5
47.5°	2427.0	2398.6	2370.3	2341.9	2313.6	2285.2	2256.9	2228.5	2200.2	2171.8	2112.5
50°	2579.8	2547.7	2515.6	2483.5	2451.4	2419.4	2387.3	2355.2	2323.1	2291.0	2222.9
52.5°	2736.7	2702.1	2667.4	2632.8	2598.1	2563.5	2528.8	2494.2	2459.5	2424.9	2347.7
55°	2897.8	2861.3	2824.8	2788.3	2751.8	2715.3	2678.8	2642.3	2605.8	2569.3	2482.6
57.5°	3058.9	3020.5	2982.2	2943.8	2905.5	2867.1	2828.8	2790.4	2752.1	2713.7	2618.4
60°	3194.9	3157.2	3119.6	3081.9	3044.2	3006.6	2968.9	2931.2	2893.6	2855.9	2752.7
62.5°	3328.8	3290.4	3252.1	3213.7	3175.4	3137.0	3098.7	3060.3	3022.0	2983.6	2874.1
65°	3420.8	3383.6	3346.4	3309.2	3272.0	3234.9	3197.7	3160.5	3123.3	3086.1	2972.4
67.5°	3471.1	3436.2	3401.3	3366.5	3331.6	3296.7	3261.8	3227.0	3192.1	3157.2	3041.2
70°	3479.4	3446.2	3412.9	3379.7	3346.4	3313.2	3279.9	3246.7	3213.4	3180.2	3064.7
72.5°	3435.5	3403.9	3372.3	3340.6	3309.0	3277.4	3245.8	3214.1	3182.5	3150.9	3037.9
75°	3337.2	3307.2	3277.2	3247.2	3217.2	3187.3	3157.3	3127.3	3097.3	3067.3	2959.2
77.5°	3186.5	3157.7	3128.9	3100.0	3071.2	3042.4	3013.6	2984.7	2955.9	2927.1	2826.2
80°	2994.0	2966.8	2939.6	2912.4	2885.2	2858.0	2830.8	2803.6	2776.4	2749.2	2656.0
82.5°	2776.4	2750.8	2725.3	2699.7	2674.1	2648.6	2623.0	2597.4	2571.9	2546.3	2461.2
85°	2544.2	2520.0	2495.8	2471.7	2447.5	2423.3	2399.1	2375.0	2350.8	2326.6	2250.3
87.5°	2316.1	2293.6	2271.0	2248.5	2225.9	2203.4	2180.8	2158.3	2135.7	2113.2	2044.6
90°	2113.2	2091.6	2070.0	2048.3	2026.7	2005.1	1983.5	1961.8	1940.2	1918.6	1857.0
92.5°	1939.5	1919.5	1899.5	1879.5	1859.5	1839.6	1819.6	1799.6	1779.6	1759.6	1703.1
95°	1797.3	1778.0	1758.7	1739.4	1720.1	1700.8	1681.5	1662.2	1642.9	1623.6	1571.3
97.5°	1678.0	1659.6	1641.3	1622.9	1604.5	1586.2	1567.8	1549.4	1531.1	1512.7	1463.0
100°	1581.7	1563.6	1545.5	1527.3	1509.2	1491.1	1473.0	1454.8	1436.7	1418.6	1370.5
102.5°	1504.3	1486.4	1468.5	1450.6	1432.7	1414.8	1396.9	1379.0	1361.1	1343.2	1296.0
105°	1435.3	1417.6	1400.0	1382.3	1364.6	1347.0	1329.3	1311.6	1294.0	1276.3	1229.6
107.5°	1372.5	1354.8	1337.2	1319.5	1301.8	1284.2	1266.5	1248.8	1231.2	1213.5	1167.7
110°	1313.9	1296.0	1278.1	1260.2	1242.3	1224.4	1206.5	1188.6	1170.7	1152.8	1107.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1249.1	1231.4	1213.8	1196.1	1178.4	1160.8	1143.1	1125.4	1107.8	1090.1	1046.6
115°	1180.0	1162.6	1145.1	1127.7	1110.3	1092.8	1075.4	1058.0	1040.5	1023.1	982.0
117.5°	1111.0	1094.5	1078.0	1061.5	1045.0	1028.4	1011.9	995.4	978.9	962.4	922.9
120°	1044.0	1028.4	1012.9	997.3	981.7	966.2	950.6	935.0	919.5	903.9	865.3
122.5°	981.3	966.4	951.5	936.7	921.8	906.9	892.0	877.2	862.3	847.4	808.8
125°	914.3	899.7	885.0	870.4	855.7	841.1	826.4	811.8	797.1	782.5	745.5
127.5°	839.0	824.8	810.6	796.5	782.3	768.1	753.9	739.8	725.6	711.4	677.9
130°	753.2	739.7	726.2	712.8	699.3	685.8	672.3	658.9	645.4	631.9	602.6
132.5°	665.3	653.7	642.1	630.4	618.8	607.2	595.6	583.9	572.3	560.7	534.7
135°	577.5	568.0	558.4	548.9	539.4	529.8	520.3	510.8	501.2	491.7	469.4
137.5°	500.1	492.4	484.7	477.1	469.4	461.7	454.0	446.4	438.7	431.0	411.5
140°	433.1	426.4	419.6	412.9	406.1	399.4	392.6	385.9	379.1	372.4	355.7
142.5°	372.4	366.8	361.2	355.7	350.1	344.5	338.9	333.4	327.8	322.2	307.6
145°	320.1	315.5	310.8	306.2	301.5	296.9	292.2	287.6	282.9	278.3	265.3
147.5°	274.1	269.9	265.7	261.5	257.3	253.2	249.0	244.8	240.6	236.4	224.8
150°	228.1	224.4	220.7	216.9	213.2	209.5	205.8	202.0	198.3	194.6	184.6
152.5°	186.2	182.9	179.7	176.4	173.2	169.9	166.7	163.4	160.2	156.9	148.3
155°	146.5	143.7	140.9	138.1	135.3	132.6	129.8	127.0	124.2	121.4	114.0
157.5°	108.8	106.5	104.2	101.8	99.5	97.2	94.9	92.5	90.2	87.9	81.6
160°	73.2	71.3	69.5	67.6	65.8	63.9	62.1	60.2	58.4	56.5	51.8
162.5°	43.9	42.3	40.7	39.0	37.4	35.8	34.2	32.5	30.9	29.3	26.5
165°	18.8	17.9	17.0	16.0	15.1	14.2	13.3	12.3	11.4	10.5	9.3
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



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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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1324.9	1325.1	1325.3	1325.6	1325.8	1326.0	1326.3	1326.5	1324.4	1322.3	1320.2
5°	1352.8	1352.3	1351.8	1351.4	1350.9	1350.4	1350.0	1349.5	1345.8	1342.1	1338.3
7.5°	1378.1	1376.7	1375.3	1373.9	1372.5	1371.1	1369.7	1368.3	1362.7	1357.1	1351.6
10°	1403.0	1400.4	1397.9	1395.3	1392.8	1390.2	1387.7	1385.1	1377.7	1370.2	1362.8
12.5°	1425.8	1422.0	1418.3	1414.6	1410.9	1407.1	1403.4	1399.7	1390.2	1380.6	1371.1
15°	1450.9	1445.1	1439.3	1433.4	1427.6	1421.8	1416.0	1410.2	1398.6	1387.0	1375.3
17.5°	1476.7	1468.1	1459.5	1450.9	1442.3	1433.7	1425.1	1416.5	1403.0	1389.5	1376.0
20°	1504.5	1493.1	1481.7	1470.4	1459.0	1447.6	1436.2	1424.8	1408.5	1392.3	1376.0
22.5°	1532.9	1519.0	1505.0	1491.1	1477.1	1463.2	1449.2	1435.3	1415.8	1396.2	1376.7
25°	1565.0	1548.3	1531.5	1514.8	1498.0	1481.3	1464.5	1447.8	1424.8	1401.8	1378.8
27.5°	1596.0	1576.9	1557.8	1538.8	1519.7	1500.6	1481.6	1462.5	1435.1	1407.6	1380.2
30°	1629.6	1607.5	1585.4	1563.4	1541.3	1519.2	1497.1	1475.0	1443.4	1411.8	1380.2
32.5°	1666.6	1641.0	1615.4	1589.9	1564.3	1538.7	1513.2	1487.6	1451.8	1416.0	1380.2
35°	1705.7	1676.6	1647.5	1618.5	1589.4	1560.3	1531.3	1502.2	1462.0	1421.8	1381.6
37.5°	1755.9	1722.7	1689.4	1656.2	1622.9	1589.7	1556.4	1523.2	1478.1	1433.0	1387.9
40°	1814.7	1776.3	1738.0	1699.6	1661.3	1622.9	1584.6	1546.2	1496.4	1446.7	1396.9
42.5°	1881.6	1837.0	1792.4	1747.7	1703.1	1658.5	1613.8	1569.2	1514.3	1459.5	1404.6
45°	1961.9	1910.3	1858.7	1807.0	1755.4	1703.8	1652.2	1600.6	1539.9	1479.2	1418.6
47.5°	2053.2	1993.9	1934.6	1875.4	1816.1	1756.8	1697.5	1638.2	1571.3	1504.3	1437.4
50°	2154.8	2086.7	2018.6	1950.4	1882.3	1814.2	1746.1	1678.0	1604.3	1530.6	1456.9
52.5°	2270.5	2193.4	2116.2	2039.0	1961.8	1884.7	1807.5	1730.3	1649.2	1568.0	1486.9
55°	2395.9	2309.2	2222.5	2135.7	2049.0	1962.3	1875.6	1788.9	1699.4	1609.9	1520.4
57.5°	2523.1	2427.7	2332.4	2237.1	2141.8	2046.4	1951.1	1855.8	1757.2	1658.7	1560.1
60°	2649.5	2546.3	2443.1	2339.8	2236.6	2133.4	2030.2	1927.0	1819.4	1711.7	1604.1
62.5°	2764.6	2655.1	2545.6	2436.1	2326.6	2217.1	2107.6	1998.1	1881.2	1764.2	1647.3
65°	2858.7	2745.1	2631.4	2517.7	2404.0	2290.4	2176.7	2063.0	1937.5	1811.9	1686.4
67.5°	2925.2	2809.2	2693.2	2577.2	2461.2	2345.2	2229.2	2113.2	1980.2	1847.2	1714.3
70°	2949.1	2833.6	2718.1	2602.5	2487.0	2371.5	2255.9	2140.4	2002.3	1864.2	1726.1
72.5°	2924.9	2812.0	2699.0	2586.0	2473.0	2360.1	2247.1	2134.1	1993.9	1853.7	1713.6
75°	2851.1	2743.0	2634.9	2526.8	2418.7	2310.6	2202.5	2094.4	1955.1	1815.9	1676.6
77.5°	2725.3	2624.4	2523.5	2422.6	2321.7	2220.8	2119.9	2019.0	1883.9	1748.9	1613.8
80°	2562.8	2469.5	2376.3	2283.1	2189.9	2096.6	2003.4	1910.2	1782.1	1654.0	1525.9
82.5°	2376.1	2291.0	2205.9	2120.9	2035.8	1950.7	1865.6	1780.5	1661.9	1543.4	1424.8
85°	2174.1	2097.8	2021.6	1945.3	1869.1	1792.8	1716.6	1640.3	1531.5	1422.7	1313.9
87.5°	1976.0	1907.5	1838.9	1770.3	1701.7	1633.2	1564.6	1496.0	1397.7	1299.3	1201.0
90°	1795.4	1733.8	1672.2	1610.6	1549.0	1487.4	1425.8	1364.2	1274.7	1185.2	1095.7
92.5°	1646.6	1590.1	1533.6	1477.2	1420.7	1364.2	1307.7	1251.2	1169.1	1087.1	1005.0
95°	1519.0	1466.7	1414.4	1362.0	1309.7	1257.4	1205.1	1152.8	1077.3	1001.7	926.2
97.5°	1413.2	1363.5	1313.7	1264.0	1214.2	1164.5	1114.7	1065.0	995.0	925.0	855.1
100°	1322.4	1274.2	1226.1	1178.0	1129.9	1081.7	1033.6	985.5	920.2	854.8	789.5
102.5°	1248.8	1201.6	1154.4	1107.3	1060.1	1012.9	965.7	918.5	856.4	794.4	732.3
105°	1182.8	1136.1	1089.4	1042.6	995.9	949.2	902.4	855.7	796.9	738.1	679.3
107.5°	1121.9	1076.1	1030.3	984.5	938.7	892.9	847.1	801.3	744.8	688.3	631.8
110°	1063.1	1018.2	973.3	928.5	883.6	838.7	793.9	749.0	694.8	640.7	586.5



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	1003.1	959.7	916.2	872.7	829.2	785.8	742.3	698.8	647.0	595.1	543.3
115°	940.8	899.7	858.5	817.4	776.2	735.1	693.9	652.8	603.5	554.2	504.9
117.5°	883.4	843.9	804.4	764.8	725.3	685.8	646.3	606.8	560.3	513.8	467.3
120°	826.7	788.1	749.5	710.9	672.3	633.7	595.1	556.5	513.5	470.5	427.5
122.5°	770.2	731.6	693.0	654.5	615.9	577.3	538.7	500.1	461.5	422.9	384.3
125°	708.6	671.6	634.6	597.7	560.7	523.7	486.8	449.8	414.9	380.1	345.2
127.5°	644.4	611.0	577.5	544.0	510.5	477.1	443.6	410.1	377.8	345.5	313.2
130°	573.3	544.0	514.7	485.4	456.1	426.8	397.5	368.2	338.7	309.2	279.6
132.5°	508.6	482.6	456.6	430.5	404.5	378.5	352.4	326.4	299.7	272.9	246.2
135°	447.1	424.7	402.4	380.1	357.8	335.4	313.1	290.8	266.4	242.0	217.6
137.5°	392.0	372.4	352.9	333.4	313.9	294.3	274.8	255.3	233.2	211.1	189.0
140°	338.9	322.2	305.5	288.7	272.0	255.3	238.5	221.8	201.8	181.8	161.8
142.5°	292.9	278.3	263.6	249.0	234.3	219.7	205.0	190.4	172.5	154.6	136.7
145°	252.3	239.2	226.2	213.2	200.2	187.1	174.1	161.1	145.3	129.5	113.7
147.5°	213.2	201.5	189.9	178.3	166.7	155.0	143.4	131.8	118.3	104.8	91.4
150°	174.6	164.6	154.6	144.6	134.6	124.6	114.6	104.6	93.4	82.3	71.1
152.5°	139.7	131.1	122.5	113.9	105.3	96.7	88.1	79.5	70.9	62.3	53.7
155°	106.5	99.1	91.6	84.2	76.7	69.3	61.8	54.4	48.4	42.3	36.3
157.5°	75.3	69.1	62.8	56.5	50.2	44.0	37.7	31.4	27.9	24.4	20.9
160°	47.2	42.5	37.9	33.2	28.6	23.9	19.3	14.6	13.0	11.4	9.7
162.5°	23.7	20.9	18.1	15.4	12.6	9.8	7.0	4.2	3.7	3.3	2.8
165°	8.2	7.0	5.8	4.7	3.5	2.3	1.2	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: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1318.1	1316.1	1314.0	1311.9	1309.8	1307.7	1308.4	1309.1	1309.8	1310.5	1311.1
5°	1334.6	1330.9	1327.2	1323.4	1319.7	1316.0	1315.1	1314.2	1313.2	1312.3	1311.4
7.5°	1346.0	1340.4	1334.8	1329.3	1323.7	1318.1	1315.5	1313.0	1310.4	1307.9	1305.3
10°	1355.3	1347.9	1340.4	1333.0	1325.5	1318.1	1313.9	1309.7	1305.6	1301.4	1297.2
12.5°	1361.6	1352.0	1342.5	1333.0	1323.4	1313.9	1307.9	1301.8	1295.8	1289.7	1283.7
15°	1363.7	1352.1	1340.5	1328.8	1317.2	1305.6	1297.9	1290.2	1282.6	1274.9	1267.2
17.5°	1362.5	1349.1	1335.6	1322.1	1308.6	1295.1	1285.3	1275.6	1265.8	1256.0	1246.3
20°	1359.7	1343.5	1327.2	1310.9	1294.7	1278.4	1267.0	1255.6	1244.2	1232.8	1221.4
22.5°	1357.2	1337.6	1318.1	1298.6	1279.0	1259.5	1246.0	1232.5	1219.1	1205.6	1192.1
25°	1355.8	1332.7	1309.7	1286.7	1263.7	1240.7	1225.1	1209.5	1194.0	1178.4	1162.8
27.5°	1352.8	1325.3	1297.9	1270.5	1243.0	1215.6	1198.2	1180.7	1163.3	1145.9	1128.4
30°	1348.6	1316.9	1285.3	1253.7	1222.1	1190.5	1170.7	1151.0	1131.2	1111.5	1091.7
32.5°	1344.4	1308.6	1272.8	1237.0	1201.2	1165.4	1143.1	1120.8	1098.4	1076.1	1053.8
35°	1341.4	1301.1	1260.9	1220.7	1180.5	1140.3	1115.2	1090.1	1065.0	1039.9	1014.7
37.5°	1342.8	1297.7	1252.6	1207.5	1162.4	1117.3	1088.9	1060.6	1032.2	1003.8	975.5
40°	1347.2	1297.4	1247.7	1197.9	1148.2	1098.4	1066.6	1034.7	1002.9	971.0	939.2
42.5°	1349.7	1294.9	1240.0	1185.1	1130.3	1075.4	1040.3	1005.2	970.1	935.0	899.9
45°	1357.9	1297.2	1236.5	1175.9	1115.2	1054.5	1015.9	977.3	938.7	900.1	861.6
47.5°	1370.4	1303.5	1236.5	1169.6	1102.6	1035.7	993.4	951.1	908.8	866.5	824.1
50°	1383.2	1309.5	1235.8	1162.1	1088.4	1014.7	968.7	922.7	876.6	830.6	784.6
52.5°	1405.8	1324.6	1243.5	1162.4	1081.2	1000.1	950.4	900.6	850.9	801.1	751.4
55°	1430.9	1341.4	1251.9	1162.4	1072.9	983.4	929.2	875.1	820.9	766.7	712.6
57.5°	1461.5	1363.0	1264.4	1165.8	1067.3	968.7	910.8	852.9	795.0	737.1	679.3
60°	1496.5	1388.8	1281.2	1173.6	1065.9	958.3	896.0	833.7	771.4	709.1	646.7
62.5°	1530.4	1413.4	1296.5	1179.6	1062.6	945.7	880.1	814.6	749.0	683.5	617.9
65°	1560.8	1435.3	1309.7	1184.2	1058.6	933.1	863.8	794.6	725.3	656.0	586.8
67.5°	1581.3	1448.3	1315.3	1182.4	1049.4	916.4	844.3	772.3	700.2	628.1	556.1
70°	1588.0	1450.0	1311.9	1173.8	1035.7	897.6	823.2	748.8	674.4	600.0	525.7
72.5°	1573.4	1433.2	1293.0	1152.9	1012.7	872.5	796.5	720.5	644.4	568.4	492.4
75°	1537.4	1398.1	1258.9	1119.6	980.4	841.1	764.4	687.7	610.9	534.2	457.5
77.5°	1478.7	1343.7	1208.6	1073.5	938.5	803.4	727.2	650.9	574.7	498.4	422.2
80°	1397.8	1269.8	1141.7	1013.6	885.5	757.4	682.8	608.2	533.5	458.9	384.3
82.5°	1306.3	1187.7	1069.2	950.6	832.1	713.5	640.5	567.5	494.5	421.5	348.5
85°	1205.1	1096.4	987.6	878.8	770.0	661.2	591.2	521.2	451.3	381.3	311.3
87.5°	1102.6	1004.3	905.9	807.6	709.2	610.9	544.0	477.0	410.1	343.1	276.2
90°	1006.2	916.6	827.1	737.6	648.1	558.6	496.5	434.5	372.4	310.3	248.3
92.5°	922.9	840.9	758.8	676.7	594.7	512.6	455.6	398.7	341.7	284.8	227.8
95°	850.6	775.1	699.5	624.0	548.4	472.9	420.4	367.8	315.3	262.7	210.2
97.5°	785.1	715.1	645.1	575.2	505.2	435.2	386.8	338.5	290.1	241.8	193.4
100°	724.2	658.8	593.5	528.2	462.8	397.5	353.3	309.2	265.0	220.8	176.7
102.5°	670.2	608.2	546.1	484.0	422.0	359.9	319.9	279.9	239.9	199.9	160.0
105°	620.5	561.6	502.8	444.0	385.2	326.4	290.1	253.9	217.6	181.3	145.1
107.5°	575.3	518.9	462.4	405.9	349.4	292.9	260.4	227.8	195.3	162.7	130.2
110°	532.3	478.2	424.0	369.8	315.7	261.5	232.4	203.4	174.3	145.3	116.2



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	491.4	439.6	387.7	335.9	284.0	232.2	206.4	180.6	154.8	129.0	103.2
115°	455.6	406.4	357.1	307.8	258.5	209.2	186.0	162.7	139.5	116.2	93.0
117.5°	420.8	374.3	327.8	281.3	234.8	188.3	167.4	146.5	125.5	104.6	83.7
120°	384.5	341.5	298.5	255.5	212.5	169.5	150.7	131.8	113.0	94.2	75.3
122.5°	345.7	307.1	268.5	229.9	191.3	152.7	135.7	118.8	101.8	84.8	67.9
125°	310.3	275.5	240.6	205.7	170.9	136.0	120.9	105.8	90.7	75.6	60.4
127.5°	280.9	248.5	216.2	183.9	151.6	119.3	106.0	92.8	79.5	66.3	53.0
130°	250.1	220.6	191.1	161.5	132.0	102.5	91.1	79.7	68.3	56.9	45.6
132.5°	219.5	192.7	166.0	139.3	112.5	85.8	76.3	66.7	57.2	47.7	38.1
135°	193.2	168.7	144.3	119.9	95.5	71.1	63.2	55.3	47.4	39.5	31.6
137.5°	166.9	144.9	122.8	100.7	78.6	56.5	50.2	43.9	37.7	31.4	25.1
140°	141.8	121.8	101.8	81.8	61.8	41.8	37.2	32.5	27.9	23.2	18.6
142.5°	118.8	100.9	83.0	65.1	47.2	29.3	26.0	22.8	19.5	16.3	13.0
145°	97.9	82.0	66.2	50.4	34.6	18.8	16.7	14.6	12.5	10.4	8.4
147.5°	77.9	64.4	50.9	37.5	24.0	10.5	9.3	8.2	7.0	5.8	4.7
150°	60.0	48.8	37.7	26.5	15.4	4.2	3.7	3.3	2.8	2.3	1.9
152.5°	45.1	36.5	27.9	19.3	10.7	2.1	1.9	1.6	1.4	1.2	0.9
155°	30.2	24.2	18.1	12.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	17.4	14.0	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	8.1	6.5	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.3	1.9	1.4	0.9	0.5	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: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1311.8	1312.5	1313.2	1313.9	1310.9	1307.9	1304.8	1301.8	1298.8	1295.8	1292.7
5°	1310.5	1309.5	1308.6	1307.7	1303.3	1298.9	1294.4	1290.0	1285.6	1281.2	1276.7
7.5°	1302.8	1300.2	1297.7	1295.1	1289.5	1283.9	1278.4	1272.8	1267.2	1261.6	1256.1
10°	1293.0	1288.9	1284.7	1280.5	1273.8	1267.0	1260.3	1253.5	1246.8	1240.0	1233.3
12.5°	1277.6	1271.6	1265.5	1259.5	1252.1	1244.6	1237.2	1229.8	1222.3	1214.9	1207.5
15°	1259.5	1251.9	1244.2	1236.5	1228.4	1220.2	1212.1	1204.0	1195.8	1187.7	1179.6
17.5°	1236.5	1226.7	1217.0	1207.2	1198.8	1190.5	1182.1	1173.7	1165.4	1157.0	1148.6
20°	1210.0	1198.6	1187.2	1175.8	1167.2	1158.6	1150.0	1141.4	1132.8	1124.2	1115.6
22.5°	1178.6	1165.2	1151.7	1138.2	1129.6	1121.0	1112.4	1103.8	1095.2	1086.6	1078.0
25°	1147.2	1131.7	1116.1	1100.5	1092.1	1083.8	1075.4	1067.0	1058.7	1050.3	1041.9
27.5°	1111.0	1093.6	1076.1	1058.7	1050.8	1042.9	1035.0	1027.1	1019.1	1011.2	1003.3
30°	1072.0	1052.2	1032.5	1012.7	1005.5	998.3	991.1	983.9	976.6	969.4	962.2
32.5°	1031.5	1009.1	986.8	964.5	958.2	951.9	945.7	939.4	933.1	926.8	920.6
35°	989.6	964.5	939.4	914.3	909.9	905.5	901.1	896.7	892.2	887.8	883.4
37.5°	947.1	918.7	890.4	862.0	859.7	857.4	855.0	852.7	850.4	848.1	845.7
40°	907.3	875.5	843.6	811.8	812.3	812.7	813.2	813.7	814.1	814.6	815.1
42.5°	864.8	829.7	794.6	759.5	763.0	766.5	770.0	773.5	776.9	780.4	783.9
45°	823.0	784.4	745.8	707.2	713.9	720.7	727.4	734.2	740.9	747.7	754.4
47.5°	781.8	739.5	697.2	654.9	664.7	674.4	684.2	694.0	703.7	713.5	723.3
50°	738.6	692.5	646.5	600.5	613.7	627.0	640.2	653.5	666.7	680.0	693.2
52.5°	701.6	651.9	602.1	552.4	568.7	584.9	601.2	617.5	633.7	650.0	666.3
55°	658.4	604.2	550.1	495.9	516.1	536.3	556.6	576.8	597.0	617.2	637.5
57.5°	621.4	563.5	505.6	447.7	471.2	494.7	518.2	541.7	565.1	588.6	612.1
60°	584.4	522.1	459.8	397.5	424.5	451.4	478.4	505.4	532.3	559.3	586.3
62.5°	552.4	486.8	421.3	355.7	385.2	414.7	444.3	473.8	503.3	532.8	562.4
65°	517.5	448.2	379.0	309.7	342.2	374.8	407.3	439.9	472.4	505.0	537.5
67.5°	484.0	411.9	339.9	267.8	302.7	337.5	372.4	407.3	442.1	477.0	511.9
70°	451.3	376.9	302.5	228.1	264.8	301.5	338.3	375.0	411.7	448.4	485.2
72.5°	416.4	340.3	264.3	188.3	226.4	264.5	302.7	340.8	378.9	417.0	455.2
75°	380.8	304.0	227.3	150.6	189.2	227.8	266.4	305.0	343.6	382.2	420.8
77.5°	345.9	269.7	193.4	117.2	156.0	194.8	233.7	272.5	311.3	350.1	389.0
80°	309.7	235.0	160.4	85.8	124.4	163.0	201.6	240.2	278.7	317.3	355.9
82.5°	275.5	202.5	129.5	56.5	94.4	132.3	170.2	208.1	245.9	283.8	321.7
85°	241.3	171.4	101.4	31.4	68.4	105.3	142.3	179.3	216.2	253.2	290.2
87.5°	209.2	142.3	75.3	8.4	44.0	79.5	115.1	150.7	186.2	221.8	257.4
90°	186.2	124.1	62.1	0.0	33.0	66.0	99.0	132.0	165.1	198.1	231.1
92.5°	170.9	113.9	57.0	0.0	30.9	61.8	92.8	123.7	154.6	185.5	216.5
95°	157.6	105.1	52.5	0.0	28.6	57.2	85.8	114.4	142.9	171.5	200.1
97.5°	145.1	96.7	48.4	0.0	26.5	53.0	79.5	106.0	132.5	159.0	185.5
100°	132.5	88.3	44.2	0.0	24.4	48.8	73.2	97.6	122.1	146.5	170.9
102.5°	120.0	80.0	40.0	0.0	22.5	45.1	67.6	90.2	112.7	135.3	157.8
105°	108.8	72.5	36.3	0.0	20.7	41.4	62.1	82.8	103.4	124.1	144.8
107.5°	97.6	65.1	32.5	0.0	18.8	37.7	56.5	75.3	94.2	113.0	131.8
110°	87.2	58.1	29.1	0.0	17.2	34.4	51.6	68.8	86.0	103.2	120.4



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	77.4	51.6	25.8	0.0	15.6	31.2	46.7	62.3	77.9	93.5	109.0
115°	69.7	46.5	23.2	0.0	13.9	27.9	41.8	55.8	69.7	83.7	97.6
117.5°	62.8	41.8	20.9	0.0	12.3	24.6	37.0	49.3	61.6	73.9	86.3
120°	56.5	37.7	18.8	0.0	10.9	21.8	32.8	43.7	54.6	65.5	76.5
122.5°	50.9	33.9	17.0	0.0	9.8	19.5	29.3	39.1	48.8	58.6	68.4
125°	45.3	30.2	15.1	0.0	8.4	16.7	25.1	33.5	41.8	50.2	58.6
127.5°	39.8	26.5	13.3	0.0	7.0	14.0	20.9	27.9	34.9	41.9	48.8
130°	34.2	22.8	11.4	0.0	5.8	11.6	17.4	23.2	29.1	34.9	40.7
132.5°	28.6	19.1	9.5	0.0	4.6	9.3	13.9	18.6	23.2	27.9	32.5
135°	23.7	15.8	7.9	0.0	3.7	7.4	11.2	14.9	18.6	22.3	26.1
137.5°	18.8	12.6	6.3	0.0	2.8	5.6	8.4	11.2	13.9	16.7	19.5
140°	13.9	9.3	4.6	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0
142.5°	9.8	6.5	3.3	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.2
145°	6.3	4.2	2.1	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
147.5°	3.5	2.3	1.2	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3
150°	1.4	0.9	0.5	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
152.5°	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	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: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1289.7	1286.7	1285.5	1284.4	1283.2	1282.1	1280.9	1279.8	1278.6	1277.5	1276.3
5°	1272.3	1267.9	1266.0	1264.2	1262.3	1260.5	1258.6	1256.8	1254.9	1253.1	1251.2
7.5°	1250.5	1244.9	1242.6	1240.3	1237.9	1235.6	1233.3	1231.0	1228.6	1226.3	1224.0
10°	1226.5	1219.8	1217.2	1214.7	1212.1	1209.6	1207.0	1204.5	1201.9	1199.4	1196.8
12.5°	1200.0	1192.6	1189.6	1186.6	1183.5	1180.5	1177.5	1174.5	1171.4	1168.4	1165.4
15°	1171.4	1163.3	1160.5	1157.7	1154.9	1152.1	1149.4	1146.6	1143.8	1141.0	1138.2
17.5°	1140.3	1131.9	1129.8	1127.7	1125.6	1123.5	1121.5	1119.4	1117.3	1115.2	1113.1
20°	1107.0	1098.4	1097.5	1096.6	1095.6	1094.7	1093.8	1092.9	1091.9	1091.0	1090.1
22.5°	1069.4	1060.8	1062.2	1063.6	1065.0	1066.4	1067.7	1069.1	1070.5	1071.9	1073.3
25°	1033.6	1025.2	1029.9	1034.5	1039.2	1043.8	1048.5	1053.1	1057.8	1062.4	1067.1
27.5°	995.4	987.5	996.1	1004.7	1013.3	1021.9	1030.6	1039.2	1047.8	1056.4	1065.0
30°	955.0	947.8	960.6	973.4	986.2	999.0	1011.7	1024.5	1037.3	1050.1	1062.9
32.5°	914.3	908.0	924.7	941.5	958.2	975.0	991.7	1008.5	1025.2	1042.0	1058.7
35°	879.0	874.6	894.8	915.0	935.3	955.5	975.7	995.9	1016.2	1036.4	1056.6
37.5°	843.4	841.1	864.8	888.5	912.2	935.9	959.7	983.4	1007.1	1030.8	1054.5
40°	815.5	816.0	842.7	869.5	896.2	922.9	949.7	976.4	1003.1	1029.9	1056.6
42.5°	787.4	790.9	820.7	850.4	880.2	909.9	939.7	969.4	999.2	1028.9	1058.7
45°	761.2	767.9	801.1	834.4	867.6	900.9	934.1	967.4	1000.6	1033.9	1067.1
47.5°	733.0	742.8	780.0	817.2	854.4	891.6	928.7	965.9	1003.1	1040.3	1077.5
50°	706.5	719.7	761.1	802.5	843.9	885.3	926.6	968.0	1009.4	1050.8	1092.2
52.5°	682.5	698.8	744.8	790.9	836.9	882.9	929.0	975.0	1021.0	1067.1	1113.1
55°	657.7	677.9	729.3	780.7	832.0	883.4	934.8	986.2	1037.5	1088.9	1140.3
57.5°	635.6	659.1	716.1	773.0	830.0	886.9	943.9	1000.8	1057.8	1114.7	1171.7
60°	613.2	640.2	703.2	766.2	829.2	892.2	955.2	1018.2	1081.2	1144.2	1207.2
62.5°	591.9	621.4	690.2	759.0	827.8	896.6	965.5	1034.3	1103.1	1171.9	1240.7
65°	570.1	602.6	677.2	751.8	826.5	901.1	975.7	1050.3	1125.0	1199.6	1274.2
67.5°	546.7	581.6	660.9	740.2	819.4	898.7	978.0	1057.3	1136.5	1215.8	1295.1
70°	521.9	558.6	641.4	724.1	806.9	889.7	972.4	1055.2	1138.0	1220.7	1303.5
72.5°	493.3	531.4	615.6	699.7	783.9	868.0	952.2	1036.3	1120.5	1204.6	1288.8
75°	459.4	498.0	581.9	665.8	749.8	833.7	917.6	1001.5	1085.5	1169.4	1253.3
77.5°	427.8	466.6	547.3	627.9	708.6	789.3	869.9	950.6	1031.3	1111.9	1192.6
80°	394.5	433.1	509.1	585.1	661.2	737.2	813.2	889.2	965.3	1041.3	1117.3
82.5°	359.6	397.5	467.7	537.9	608.1	678.3	748.6	818.8	889.0	959.2	1029.4
85°	327.1	364.1	427.8	491.5	555.2	618.9	682.5	746.2	809.9	873.6	937.3
87.5°	292.9	328.5	385.7	442.9	500.1	557.3	614.4	671.6	728.8	786.0	843.2
90°	264.1	297.1	348.7	400.3	451.9	503.5	555.2	606.8	658.4	710.0	761.6
92.5°	247.4	278.3	324.8	371.3	417.8	464.3	510.7	557.2	603.7	650.2	696.7
95°	228.7	257.3	300.1	342.9	385.6	428.4	471.2	514.0	556.7	599.5	642.3
97.5°	212.0	238.5	278.3	318.0	357.8	397.5	437.3	477.0	516.8	556.5	596.3
100°	195.3	219.7	257.1	294.5	332.0	369.4	406.8	444.2	481.7	519.1	556.5
102.5°	180.4	202.9	238.0	273.1	308.2	343.3	378.5	413.6	448.7	483.8	518.9
105°	165.5	186.2	219.9	253.6	287.3	321.0	354.8	388.5	422.2	455.9	489.6
107.5°	150.7	169.5	202.0	234.6	267.1	299.7	332.2	364.8	397.3	429.9	462.4
110°	137.6	154.8	186.2	217.6	249.0	280.4	311.7	343.1	374.5	405.9	437.3



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	124.6	140.2	170.4	200.6	230.9	261.1	291.3	321.5	351.8	382.0	412.2
115°	111.6	125.5	154.3	183.2	212.0	240.8	269.7	298.5	327.3	356.2	385.0
117.5°	98.6	110.9	138.3	165.8	193.2	220.6	248.1	275.5	302.9	330.4	357.8
120°	87.4	98.3	124.1	149.9	175.7	201.5	227.4	253.2	279.0	304.8	330.6
122.5°	78.1	87.9	111.8	135.8	159.7	183.7	207.6	231.6	255.5	279.5	303.4
125°	66.9	75.3	97.6	119.9	142.3	164.6	186.9	209.2	231.6	253.9	276.2
127.5°	55.8	62.8	83.3	103.7	124.2	144.6	165.1	185.5	206.0	226.4	246.9
130°	46.5	52.3	70.0	87.6	105.3	123.0	140.6	158.3	176.0	193.6	211.3
132.5°	37.2	41.8	56.7	71.6	86.4	101.3	116.2	131.1	145.9	160.8	175.7
135°	29.8	33.5	46.5	59.5	72.5	85.5	98.6	111.6	124.6	137.6	150.6
137.5°	22.3	25.1	36.0	46.9	57.9	68.8	79.7	90.6	101.6	112.5	123.4
140°	14.8	16.7	26.0	35.3	44.6	53.9	63.2	72.5	81.8	91.1	100.4
142.5°	9.3	10.5	18.2	25.8	33.5	41.2	48.8	56.5	64.2	71.8	79.5
145°	5.6	6.3	12.3	18.4	24.4	30.5	36.5	42.6	48.6	54.7	60.7
147.5°	3.7	4.2	8.8	13.5	18.1	22.8	27.4	32.1	36.7	41.4	46.0
150°	1.9	2.1	5.6	9.1	12.6	16.1	19.5	23.0	26.5	30.0	33.5
152.5°	0.0	0.0	2.6	5.1	7.7	10.2	12.8	15.3	17.9	20.4	23.0
155°	0.0	0.0	1.6	3.2	4.9	6.5	8.1	9.7	11.4	13.0	14.6
157.5°	0.0	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3
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: P201392

CATALOG NUMBER: 8LBLEDD4-10-ASYMF-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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1275.1	1274.0	1272.8	1271.6	1270.5	1269.3	1268.1	1267.0	1265.8	1264.9	1263.9
5°	1249.6	1247.9	1246.3	1244.7	1243.0	1241.4	1239.8	1238.1	1236.5	1236.0	1235.6
7.5°	1222.1	1220.3	1218.4	1216.5	1214.7	1212.8	1210.9	1209.1	1207.2	1206.7	1206.3
10°	1194.9	1193.1	1191.2	1189.3	1187.5	1185.6	1183.7	1181.9	1180.0	1179.5	1179.1
12.5°	1164.2	1163.1	1161.9	1160.7	1159.6	1158.4	1157.2	1156.1	1154.9	1154.9	1154.9
15°	1137.7	1137.3	1136.8	1136.3	1135.9	1135.4	1134.9	1134.5	1134.0	1134.5	1134.9
17.5°	1114.5	1115.9	1117.3	1118.7	1120.0	1121.4	1122.8	1124.2	1125.6	1127.0	1128.4
20°	1094.3	1098.5	1102.6	1106.8	1111.0	1115.2	1119.3	1123.5	1127.7	1130.3	1132.8
22.5°	1080.5	1087.7	1094.9	1102.1	1109.4	1116.6	1123.8	1131.0	1138.2	1141.2	1144.2
25°	1076.2	1085.2	1094.3	1103.4	1112.4	1121.5	1130.6	1139.6	1148.7	1152.2	1155.7
27.5°	1075.2	1085.4	1095.7	1105.9	1116.1	1126.3	1136.6	1146.8	1157.0	1161.0	1164.9
30°	1074.5	1086.1	1097.8	1109.4	1121.0	1132.6	1144.3	1155.9	1167.5	1172.4	1177.3
32.5°	1072.2	1085.7	1099.1	1112.6	1126.1	1139.6	1153.0	1166.5	1180.0	1185.8	1191.6
35°	1072.2	1087.8	1103.3	1118.9	1134.5	1150.1	1165.6	1181.2	1196.8	1203.8	1210.7
37.5°	1072.6	1090.8	1108.9	1127.0	1145.2	1163.3	1181.4	1199.6	1217.7	1226.1	1234.4
40°	1077.5	1098.4	1119.4	1140.3	1161.2	1182.1	1203.1	1224.0	1244.9	1254.9	1264.9
42.5°	1083.3	1108.0	1132.6	1157.3	1181.9	1206.6	1231.2	1255.9	1280.5	1292.1	1303.7
45°	1095.7	1124.3	1152.9	1181.5	1210.0	1238.6	1267.2	1295.8	1324.4	1337.9	1351.4
47.5°	1110.7	1144.0	1177.2	1210.5	1243.7	1277.0	1310.2	1343.5	1376.7	1392.3	1407.9
50°	1130.8	1169.4	1208.0	1246.6	1285.1	1323.7	1362.3	1400.9	1439.5	1457.4	1475.3
52.5°	1157.0	1201.0	1244.9	1288.8	1332.8	1376.7	1420.6	1464.6	1508.5	1528.7	1548.9
55°	1190.0	1239.8	1289.5	1339.3	1389.0	1438.8	1488.5	1538.3	1588.0	1609.9	1631.7
57.5°	1227.0	1282.3	1337.7	1393.0	1448.3	1503.6	1559.0	1614.3	1669.6	1693.1	1716.6
60°	1267.6	1328.1	1388.5	1449.0	1509.4	1569.9	1630.3	1690.8	1751.2	1775.1	1799.1
62.5°	1305.8	1370.9	1436.0	1501.1	1566.1	1631.2	1696.3	1761.4	1826.5	1850.7	1874.9
65°	1342.1	1410.0	1477.8	1545.7	1613.6	1681.5	1749.3	1817.2	1885.1	1909.3	1933.5
67.5°	1364.8	1434.6	1504.3	1574.1	1643.8	1713.6	1783.3	1853.1	1922.8	1945.6	1968.4
70°	1373.0	1442.5	1512.0	1581.5	1651.1	1720.6	1790.1	1859.6	1929.1	1950.9	1972.8
72.5°	1356.9	1425.0	1493.2	1561.3	1629.4	1697.5	1765.7	1833.8	1901.9	1921.9	1941.9
75°	1317.9	1382.5	1447.2	1511.8	1576.4	1641.0	1705.7	1770.3	1834.9	1853.0	1871.2
77.5°	1252.8	1313.0	1373.2	1433.4	1493.7	1553.9	1614.1	1674.3	1734.5	1751.5	1768.4
80°	1171.7	1226.1	1280.5	1334.9	1389.3	1443.7	1498.1	1552.5	1606.9	1622.9	1639.0
82.5°	1078.0	1126.6	1175.2	1223.8	1272.3	1320.9	1369.5	1418.1	1466.7	1481.1	1495.5
85°	980.3	1023.3	1066.3	1109.3	1152.4	1195.4	1238.4	1281.4	1324.4	1336.5	1348.6
87.5°	881.1	919.0	956.9	994.8	1032.6	1070.5	1108.4	1146.3	1184.2	1195.4	1206.5
90°	794.8	828.1	861.3	894.6	927.8	961.1	994.3	1027.6	1060.8	1071.3	1081.7
92.5°	726.5	756.2	786.0	815.7	845.5	875.2	905.0	934.7	964.5	973.6	982.6
95°	669.5	696.7	723.9	751.1	778.3	805.5	832.7	859.9	887.1	895.7	904.3
97.5°	621.4	646.5	671.6	696.7	721.9	747.0	772.1	797.2	822.3	831.1	840.0
100°	580.9	605.3	629.7	654.1	678.6	703.0	727.4	751.8	776.2	784.3	792.5
102.5°	543.1	567.3	591.4	615.6	639.8	664.0	688.1	712.3	736.5	744.6	752.8
105°	513.5	537.5	561.4	585.4	609.3	633.3	657.2	681.2	705.1	713.0	720.9
107.5°	486.3	510.3	534.2	558.2	582.1	606.1	630.0	654.0	677.9	685.8	693.7
110°	461.0	484.7	508.4	532.1	555.9	579.6	603.3	627.0	650.7	658.8	667.0



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	436.1	460.1	484.0	508.0	531.9	555.9	579.8	603.8	627.7	635.6	643.5
115°	408.9	432.9	456.8	480.8	504.7	528.7	552.6	576.6	600.5	608.6	616.8
117.5°	381.5	405.2	428.9	452.6	476.4	500.1	523.8	547.5	571.2	579.6	587.9
120°	353.8	377.1	400.3	423.6	446.8	470.1	493.3	516.6	539.8	548.4	557.0
122.5°	325.0	346.6	368.3	389.9	411.5	433.1	454.8	476.4	498.0	507.3	516.6
125°	296.7	317.1	337.6	358.0	378.5	398.9	419.4	439.8	460.3	469.1	478.0
127.5°	266.0	285.0	304.1	323.2	342.2	361.3	380.4	399.4	418.5	426.4	434.3
130°	229.7	248.0	266.4	284.8	303.1	321.5	339.9	358.2	376.6	384.0	391.5
132.5°	193.6	211.5	229.4	247.3	265.3	283.2	301.1	319.0	336.9	344.1	351.3
135°	167.1	183.6	200.1	216.6	233.2	249.7	266.2	282.7	299.2	305.2	311.3
137.5°	138.1	152.7	167.4	182.0	196.7	211.3	226.0	240.6	255.3	261.3	267.4
140°	112.3	124.1	136.0	147.8	159.7	171.5	183.4	195.2	207.1	213.4	219.7
142.5°	89.7	100.0	110.2	120.4	130.7	140.9	151.1	161.4	171.6	176.9	182.3
145°	69.3	77.9	86.5	95.1	103.7	112.3	120.9	129.5	138.1	143.4	148.8
147.5°	52.7	59.5	66.2	73.0	79.7	86.5	93.2	100.0	106.7	111.8	116.9
150°	38.8	44.2	49.5	54.9	60.2	65.6	70.9	76.3	81.6	86.2	90.9
152.5°	27.2	31.4	35.6	39.8	43.9	48.1	52.3	56.5	60.7	64.6	68.6
155°	17.6	20.6	23.7	26.7	29.7	32.7	35.8	38.8	41.8	45.5	49.2
157.5°	8.6	10.9	13.3	15.6	17.9	20.2	22.6	24.9	27.2	30.5	33.7
160°	3.7	5.3	7.0	8.6	10.2	11.8	13.5	15.1	16.7	19.3	21.8
162.5°	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	8.4	10.5
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
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: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1263.0	1262.1	1261.1	1260.2	1259.3	1258.3	1257.4	1258.3	1259.3	1260.2	1261.1
5°	1235.1	1234.6	1234.2	1233.7	1233.2	1232.8	1232.3	1232.5	1232.8	1233.0	1233.2
7.5°	1205.8	1205.3	1204.9	1204.4	1203.9	1203.5	1203.0	1203.5	1203.9	1204.4	1204.9
10°	1178.6	1178.1	1177.7	1177.2	1176.7	1176.3	1175.8	1176.3	1176.7	1177.2	1177.7
12.5°	1154.9	1154.9	1154.9	1154.9	1154.9	1154.9	1154.9	1154.9	1154.9	1154.9	1154.9
15°	1135.4	1135.9	1136.3	1136.8	1137.3	1137.7	1138.2	1138.2	1138.2	1138.2	1138.2
17.5°	1129.8	1131.2	1132.6	1134.0	1135.4	1136.8	1138.2	1136.8	1135.4	1134.0	1132.6
20°	1135.4	1137.9	1140.5	1143.0	1145.6	1148.1	1150.7	1147.9	1145.1	1142.3	1139.5
22.5°	1147.3	1150.3	1153.3	1156.3	1159.4	1162.4	1165.4	1161.9	1158.4	1154.9	1151.4
25°	1159.1	1162.6	1166.1	1169.6	1173.0	1176.5	1180.0	1176.3	1172.6	1168.9	1165.2
27.5°	1168.9	1172.8	1176.8	1180.7	1184.7	1188.6	1192.6	1188.6	1184.7	1180.7	1176.8
30°	1182.1	1187.0	1191.9	1196.8	1201.6	1206.5	1211.4	1206.3	1201.2	1196.1	1191.0
32.5°	1197.4	1203.2	1209.1	1214.9	1220.7	1226.5	1232.3	1226.5	1220.7	1214.9	1209.1
35°	1217.7	1224.7	1231.6	1238.6	1245.6	1252.5	1259.5	1252.5	1245.6	1238.6	1231.6
37.5°	1242.8	1251.2	1259.5	1267.9	1276.3	1284.6	1293.0	1284.9	1276.7	1268.6	1260.5
40°	1274.9	1284.9	1294.9	1304.9	1314.9	1324.9	1334.9	1325.6	1316.3	1307.0	1297.7
42.5°	1315.4	1327.0	1338.6	1350.2	1361.9	1373.5	1385.1	1374.2	1363.2	1352.3	1341.4
45°	1364.9	1378.4	1391.8	1405.3	1418.8	1432.3	1445.8	1432.8	1419.8	1406.7	1393.7
47.5°	1423.4	1439.0	1454.6	1470.2	1485.7	1501.3	1516.9	1502.5	1488.1	1473.7	1459.3
50°	1493.2	1511.1	1529.0	1546.9	1564.8	1582.7	1600.6	1583.9	1567.1	1550.4	1533.6
52.5°	1569.2	1589.4	1609.6	1629.8	1650.1	1670.3	1690.5	1671.9	1653.3	1634.7	1616.1
55°	1653.6	1675.4	1697.3	1719.1	1741.0	1762.8	1784.7	1763.8	1742.9	1721.9	1701.0
57.5°	1740.0	1763.5	1787.0	1810.5	1833.9	1857.4	1880.9	1858.6	1836.3	1814.0	1791.7
60°	1823.0	1847.0	1870.9	1894.9	1918.8	1942.8	1966.7	1945.1	1923.5	1901.8	1880.2
62.5°	1899.0	1923.2	1947.4	1971.6	1995.7	2019.9	2044.1	2022.3	2000.4	1978.6	1956.7
65°	1957.6	1981.8	2006.0	2030.2	2054.3	2078.5	2102.7	2080.4	2058.1	2035.8	2013.5
67.5°	1991.1	2013.9	2036.7	2059.5	2082.2	2105.0	2127.8	2107.1	2086.4	2065.7	2045.0
70°	1994.6	2016.5	2038.3	2060.2	2082.0	2103.9	2125.7	2105.9	2086.2	2066.4	2046.7
72.5°	1961.9	1981.9	2001.8	2021.8	2041.8	2061.8	2081.8	2064.1	2046.5	2028.8	2011.1
75°	1889.3	1907.4	1925.6	1943.7	1961.8	1980.0	1998.1	1982.3	1966.5	1950.7	1934.9
77.5°	1785.4	1802.4	1819.3	1836.3	1853.3	1870.2	1887.2	1872.3	1857.4	1842.6	1827.7
80°	1655.0	1671.0	1687.1	1703.1	1719.1	1735.2	1751.2	1737.5	1723.8	1710.1	1696.4
82.5°	1509.9	1524.3	1538.8	1553.2	1567.6	1582.0	1596.4	1584.1	1571.8	1559.4	1547.1
85°	1360.7	1372.8	1384.8	1396.9	1409.0	1421.1	1433.2	1422.0	1410.9	1399.7	1388.6
87.5°	1217.7	1228.8	1240.0	1251.1	1262.3	1273.4	1284.6	1273.9	1263.2	1252.5	1241.8
90°	1092.2	1102.6	1113.1	1123.5	1134.0	1144.4	1154.9	1144.9	1134.9	1124.9	1114.9
92.5°	991.7	1000.8	1009.8	1018.9	1028.0	1037.0	1046.1	1037.3	1028.4	1019.6	1010.8
95°	912.9	921.5	930.1	938.7	947.3	955.9	964.5	956.4	948.2	940.1	932.0
97.5°	848.8	857.6	866.5	875.3	884.1	893.0	901.8	893.9	886.0	878.1	870.2
100°	800.6	808.8	816.9	825.1	833.2	841.4	849.5	841.8	834.1	826.5	818.8
102.5°	760.9	769.0	777.2	785.3	793.4	801.6	809.7	802.3	794.8	787.4	780.0
105°	728.8	736.7	744.6	752.5	760.4	768.3	776.2	768.8	761.3	753.9	746.5
107.5°	701.6	709.5	717.4	725.3	733.2	741.1	749.0	741.6	734.1	726.7	719.3
110°	675.1	683.2	691.4	699.5	707.6	715.8	723.9	716.2	708.6	700.9	693.2



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	651.4	659.3	667.2	675.1	683.0	690.9	698.8	691.1	683.5	675.8	668.1
115°	624.9	633.0	641.2	649.3	657.4	665.6	673.7	666.0	658.4	650.7	643.0
117.5°	596.3	604.7	613.0	621.4	629.8	638.1	646.5	638.6	630.7	622.8	614.9
120°	565.6	574.2	582.8	591.4	600.0	608.6	617.2	609.1	600.9	592.8	584.7
122.5°	525.9	535.2	544.4	553.7	563.0	572.3	581.6	573.0	564.4	555.8	547.2
125°	486.8	495.6	504.5	513.3	522.1	531.0	539.8	531.7	523.5	515.4	507.3
127.5°	442.2	450.1	458.0	465.9	473.8	481.7	489.6	482.4	475.2	468.0	460.8
130°	398.9	406.4	413.8	421.3	428.7	436.2	443.6	437.1	430.6	424.1	417.6
132.5°	358.5	365.7	372.9	380.1	387.3	394.5	401.7	395.4	389.1	382.9	376.6
135°	317.3	323.4	329.4	335.5	341.5	347.6	353.6	348.5	343.4	338.3	333.2
137.5°	273.4	279.5	285.5	291.6	297.6	303.7	309.7	304.8	299.9	295.0	290.1
140°	225.9	232.2	238.5	244.8	251.0	257.3	263.6	259.2	254.8	250.4	246.0
142.5°	187.6	193.0	198.3	203.7	209.0	214.4	219.7	216.4	213.2	209.9	206.7
145°	154.1	159.5	164.8	170.2	175.5	180.9	186.2	183.4	180.6	177.8	175.0
147.5°	122.0	127.1	132.3	137.4	142.5	147.6	152.7	150.4	148.1	145.7	143.4
150°	95.5	100.2	104.8	109.5	114.1	118.8	123.4	121.5	119.7	117.8	116.0
152.5°	72.5	76.5	80.4	84.4	88.3	92.3	96.2	95.0	93.9	92.7	91.6
155°	53.0	56.7	60.4	64.1	67.9	71.6	75.3	74.4	73.5	72.5	71.6
157.5°	37.0	40.2	43.5	46.7	50.0	53.2	56.5	56.0	55.6	55.1	54.6
160°	24.4	27.0	29.5	32.1	34.7	37.2	39.8	39.3	38.9	38.4	37.9
162.5°	12.6	14.7	16.7	18.8	20.9	23.0	25.1	24.6	24.2	23.7	23.2
165°	4.2	5.6	7.0	8.4	9.8	11.2	12.6	12.6	12.6	12.6	12.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1262.1	1263.0	1263.9	1264.9	1265.8	1267.7	1269.5	1271.4	1273.3	1275.1	1277.0
5°	1233.5	1233.7	1233.9	1234.2	1234.4	1237.0	1239.5	1242.1	1244.6	1247.2	1249.7
7.5°	1205.3	1205.8	1206.3	1206.7	1207.2	1210.2	1213.2	1216.3	1219.3	1222.3	1225.3
10°	1178.1	1178.6	1179.1	1179.5	1180.0	1183.3	1186.5	1189.8	1193.0	1196.3	1199.5
12.5°	1154.9	1154.9	1154.9	1154.9	1154.9	1158.2	1161.4	1164.7	1167.9	1171.2	1174.4
15°	1138.2	1138.2	1138.2	1138.2	1138.2	1139.8	1141.4	1143.1	1144.7	1146.3	1147.9
17.5°	1131.2	1129.8	1128.4	1127.0	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6
20°	1136.8	1134.0	1131.2	1128.4	1125.6	1123.0	1120.5	1117.9	1115.4	1112.8	1110.3
22.5°	1148.0	1144.5	1141.0	1137.5	1134.0	1128.4	1122.8	1117.3	1111.7	1106.1	1100.5
25°	1161.4	1157.7	1154.0	1150.3	1146.6	1138.9	1131.2	1123.6	1115.9	1108.2	1100.5
27.5°	1172.8	1168.9	1164.9	1161.0	1157.0	1147.9	1138.9	1129.8	1120.7	1111.7	1102.6
30°	1185.8	1180.7	1175.6	1170.5	1165.4	1154.7	1144.0	1133.3	1122.6	1111.9	1101.2
32.5°	1203.2	1197.4	1191.6	1185.8	1180.0	1167.2	1154.4	1141.7	1128.9	1116.1	1103.3
35°	1224.7	1217.7	1210.7	1203.8	1196.8	1181.9	1167.0	1152.2	1137.3	1122.4	1107.5
37.5°	1252.3	1244.2	1236.1	1227.9	1219.8	1202.4	1184.9	1167.5	1150.1	1132.6	1115.2
40°	1288.4	1279.1	1269.8	1260.5	1251.2	1230.5	1209.8	1189.1	1168.4	1147.8	1127.1
42.5°	1330.4	1319.5	1308.6	1297.6	1286.7	1262.5	1238.3	1214.2	1190.0	1165.8	1141.6
45°	1380.7	1367.7	1354.6	1341.6	1328.6	1300.7	1272.8	1244.9	1217.0	1189.1	1161.2
47.5°	1444.8	1430.4	1416.0	1401.6	1387.2	1354.2	1321.2	1288.2	1255.2	1222.1	1189.1
50°	1516.9	1500.1	1483.4	1466.6	1449.9	1411.8	1373.7	1335.5	1297.4	1259.3	1221.2
52.5°	1597.6	1579.0	1560.4	1541.8	1523.2	1479.3	1435.3	1391.4	1347.4	1303.5	1259.5
55°	1680.1	1659.2	1638.2	1617.3	1596.4	1547.3	1498.3	1449.2	1400.2	1351.1	1302.1
57.5°	1769.3	1747.0	1724.7	1702.4	1680.1	1625.5	1570.8	1516.2	1461.6	1406.9	1352.3
60°	1858.6	1837.0	1815.3	1793.7	1772.1	1711.4	1650.8	1590.1	1529.4	1468.8	1408.1
62.5°	1934.9	1913.0	1891.2	1869.3	1847.5	1782.4	1717.3	1652.2	1587.1	1522.0	1456.9
65°	1991.1	1968.8	1946.5	1924.2	1901.9	1834.5	1767.1	1699.6	1632.2	1564.8	1497.4
67.5°	2024.4	2003.7	1983.0	1962.3	1941.6	1872.6	1803.5	1734.5	1665.4	1596.4	1527.3
70°	2026.9	2007.2	1987.4	1967.7	1947.9	1879.1	1810.3	1741.5	1672.7	1603.8	1535.0
72.5°	1993.5	1975.8	1958.1	1940.5	1922.8	1855.1	1787.5	1719.8	1652.2	1584.5	1516.9
75°	1919.0	1903.2	1887.4	1871.6	1855.8	1791.6	1727.5	1663.3	1599.2	1535.0	1470.9
77.5°	1812.8	1797.9	1783.1	1768.2	1753.3	1694.0	1634.7	1575.5	1516.2	1456.9	1397.6
80°	1682.6	1668.9	1655.2	1641.5	1627.8	1573.4	1519.0	1464.6	1410.2	1355.8	1301.4
82.5°	1534.8	1522.5	1510.1	1497.8	1485.5	1436.9	1388.3	1339.7	1291.1	1242.6	1194.0
85°	1377.4	1366.3	1355.1	1344.0	1332.8	1290.5	1248.2	1205.9	1163.6	1121.2	1078.9
87.5°	1231.2	1220.5	1209.8	1199.1	1188.4	1151.4	1114.5	1077.5	1040.5	1003.6	966.6
90°	1105.0	1095.0	1085.0	1075.0	1065.0	1032.4	999.9	967.3	934.8	902.2	869.7
92.5°	1001.9	993.1	984.3	975.4	966.6	937.5	908.5	879.4	850.4	821.3	792.3
95°	923.8	915.7	907.6	899.4	891.3	864.8	838.3	811.8	785.3	758.8	732.3
97.5°	862.2	854.3	846.4	838.5	830.6	805.5	780.4	755.3	730.2	705.1	680.0
100°	811.1	803.4	795.8	788.1	780.4	756.5	732.5	708.6	684.6	660.7	636.7
102.5°	772.5	765.1	757.7	750.2	742.8	719.3	695.8	672.3	648.8	625.4	601.9
105°	739.0	731.6	724.2	716.7	709.3	685.6	661.9	638.2	614.5	590.7	567.0
107.5°	711.8	704.4	697.0	689.5	682.1	658.6	635.1	611.7	588.2	564.7	541.2
110°	685.6	677.9	670.2	662.6	654.9	631.7	608.4	585.2	561.9	538.7	515.4



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	660.5	652.8	645.1	637.5	629.8	606.5	583.3	560.0	536.8	513.5	490.3
115°	635.4	627.7	620.0	612.4	604.7	581.4	558.2	534.9	511.7	488.4	465.2
117.5°	607.0	599.1	591.2	583.3	575.4	552.4	529.4	506.3	483.3	460.3	437.3
120°	576.5	568.4	560.3	552.1	544.0	521.4	498.9	476.3	453.8	431.2	408.7
122.5°	538.6	530.0	521.4	512.8	504.2	483.0	461.9	440.7	419.6	398.4	377.3
125°	499.1	491.0	482.9	474.7	466.6	446.4	426.1	405.9	385.7	365.4	345.2
127.5°	453.5	446.3	439.1	431.9	424.7	406.1	387.5	368.9	350.3	331.7	313.1
130°	411.0	404.5	398.0	391.5	385.0	367.6	350.1	332.7	315.3	297.8	280.4
132.5°	370.3	364.0	357.8	351.5	345.2	328.9	312.7	296.4	280.1	263.9	247.6
135°	328.0	322.9	317.8	312.7	307.6	292.7	277.8	263.0	248.1	233.2	218.3
137.5°	285.3	280.4	275.5	270.6	265.7	252.9	240.1	227.3	214.5	201.8	189.0
140°	241.5	237.1	232.7	228.3	223.9	213.2	202.5	191.8	181.1	170.4	159.7
142.5°	203.4	200.2	196.9	193.7	190.4	181.1	171.8	162.5	153.2	143.9	134.6
145°	172.3	169.5	166.7	163.9	161.1	153.2	145.3	137.4	129.5	121.6	113.7
147.5°	141.1	138.8	136.4	134.1	131.8	125.5	119.2	113.0	106.7	100.4	94.1
150°	114.1	112.3	110.4	108.6	106.7	101.6	96.5	91.4	86.3	81.1	76.0
152.5°	90.4	89.3	88.1	87.0	85.8	81.8	77.9	73.9	70.0	66.0	62.1
155°	70.7	69.8	68.8	67.9	67.0	63.7	60.5	57.2	54.0	50.7	47.5
157.5°	54.2	53.7	53.2	52.8	52.3	49.3	46.3	43.2	40.2	37.2	34.2
160°	37.5	37.0	36.5	36.1	35.6	33.5	31.4	29.3	27.2	25.1	23.0
162.5°	22.8	22.3	21.8	21.4	20.9	20.0	19.1	18.1	17.2	16.3	15.4
165°	12.6	12.6	12.6	12.6	12.6	12.1	11.7	11.2	10.7	10.3	9.8
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: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1278.9	1280.7	1282.6	1283.5	1284.4	1285.4	1286.3	1287.2	1288.1	1289.1	1290.0
5°	1252.3	1254.8	1257.4	1259.3	1261.1	1263.0	1264.9	1266.7	1268.6	1270.5	1272.3
7.5°	1228.4	1231.4	1234.4	1236.3	1238.1	1240.0	1241.9	1243.7	1245.6	1247.5	1249.3
10°	1202.8	1206.0	1209.3	1211.2	1213.0	1214.9	1216.8	1218.6	1220.5	1222.4	1224.2
12.5°	1177.7	1180.9	1184.2	1185.8	1187.5	1189.1	1190.7	1192.4	1194.0	1195.6	1197.3
15°	1149.6	1151.2	1152.8	1154.9	1157.0	1159.1	1161.2	1163.3	1165.4	1167.5	1169.6
17.5°	1125.6	1125.6	1125.6	1127.0	1128.4	1129.8	1131.2	1132.6	1134.0	1135.4	1136.8
20°	1107.7	1105.2	1102.6	1102.8	1103.1	1103.3	1103.5	1103.8	1104.0	1104.2	1104.5
22.5°	1095.0	1089.4	1083.8	1082.4	1081.0	1079.6	1078.2	1076.8	1075.4	1074.0	1072.6
25°	1092.9	1085.2	1077.5	1072.4	1067.3	1062.2	1057.1	1051.9	1046.8	1041.7	1036.6
27.5°	1093.5	1084.5	1075.4	1066.1	1056.8	1047.5	1038.2	1028.9	1019.6	1010.3	1001.0
30°	1090.5	1079.8	1069.1	1056.3	1043.5	1030.8	1018.0	1005.2	992.4	979.7	966.9
32.5°	1090.6	1077.8	1065.0	1048.7	1032.4	1016.2	999.9	983.6	967.3	951.1	934.8
35°	1092.7	1077.8	1062.9	1042.9	1022.9	1002.9	982.9	962.9	942.9	922.9	902.9
37.5°	1097.8	1080.3	1062.9	1039.2	1015.5	991.8	968.1	944.3	920.6	896.9	873.2
40°	1106.4	1085.7	1065.0	1038.0	1011.1	984.1	957.1	930.2	903.2	876.2	849.3
42.5°	1117.5	1093.3	1069.1	1039.1	1009.1	979.1	949.1	919.2	889.2	859.2	829.2
45°	1133.3	1105.4	1077.5	1044.0	1010.5	977.1	943.6	910.1	876.6	843.2	809.7
47.5°	1156.1	1123.1	1090.1	1052.7	1015.2	977.8	940.4	902.9	865.5	828.1	790.6
50°	1183.0	1144.9	1106.8	1065.0	1023.1	981.3	939.4	897.6	855.7	813.9	772.0
52.5°	1215.6	1171.6	1127.7	1081.2	1034.7	988.2	941.7	895.3	848.8	802.3	755.8
55°	1253.0	1204.0	1154.9	1103.3	1051.7	1000.1	948.5	896.8	845.2	793.6	742.0
57.5°	1297.7	1243.0	1188.4	1131.0	1073.6	1016.1	958.7	901.3	843.9	786.4	729.0
60°	1347.4	1286.8	1226.1	1162.6	1099.2	1035.7	972.2	908.8	845.3	781.8	718.4
62.5°	1391.8	1326.7	1261.6	1192.3	1123.0	1053.8	984.5	915.2	845.9	776.7	707.4
65°	1429.9	1362.5	1295.1	1220.2	1145.4	1070.5	995.7	920.8	846.0	771.1	696.3
67.5°	1458.3	1389.2	1320.2	1240.5	1160.7	1081.0	1001.3	921.5	841.8	762.1	682.3
70°	1466.2	1397.4	1328.6	1245.4	1162.2	1078.9	995.7	912.5	829.3	746.0	662.8
72.5°	1449.2	1381.6	1313.9	1229.5	1145.1	1060.7	976.3	892.0	807.6	723.2	638.8
75°	1406.7	1342.6	1278.4	1194.7	1111.0	1027.3	943.6	860.0	776.3	692.6	608.9
77.5°	1338.4	1279.1	1219.8	1138.4	1057.1	975.7	894.3	813.0	731.6	650.2	568.9
80°	1247.0	1192.6	1138.2	1062.2	986.2	910.1	834.1	758.1	682.1	606.0	530.0
82.5°	1145.4	1096.8	1048.2	978.2	908.3	838.3	768.3	698.4	628.4	558.4	488.5
85°	1036.6	994.3	952.0	888.8	825.5	762.3	699.1	635.8	572.6	509.4	446.1
87.5°	929.6	892.7	855.7	799.2	742.7	686.2	629.7	573.3	516.8	460.3	403.8
90°	837.1	804.6	772.0	721.1	670.2	619.3	568.4	517.4	466.5	415.6	364.7
92.5°	763.2	734.2	705.1	659.1	613.0	567.0	521.0	474.9	428.9	382.9	336.8
95°	705.8	679.3	652.8	610.3	567.7	525.2	482.6	440.1	397.5	355.0	312.4
97.5°	654.9	629.8	604.7	565.4	526.1	486.8	447.5	408.3	369.0	329.7	290.4
100°	612.8	588.8	564.9	527.9	491.0	454.0	417.0	380.1	343.1	306.1	269.2
102.5°	578.4	554.9	531.4	496.1	460.7	425.4	390.1	354.7	319.4	284.1	248.7
105°	543.3	519.6	495.9	462.7	429.4	396.2	362.9	329.7	296.4	263.2	229.9
107.5°	517.8	494.3	470.8	438.5	406.2	373.8	341.5	309.2	276.9	244.5	212.2
110°	492.2	468.9	445.7	414.5	383.4	352.2	321.1	289.9	258.8	227.6	196.5



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	467.0	443.8	420.5	390.5	360.5	330.5	300.5	270.6	240.6	210.6	180.6
115°	441.9	418.7	395.4	366.6	337.8	308.9	280.1	251.3	222.5	193.6	164.8
117.5°	414.2	391.2	368.2	340.8	313.4	285.9	258.5	231.1	203.7	176.2	148.8
120°	386.1	363.6	341.0	315.0	288.9	262.9	236.9	210.8	184.8	158.8	132.7
122.5°	356.1	335.0	313.8	289.4	265.0	240.6	216.2	191.8	167.4	143.0	118.6
125°	325.0	304.7	284.5	262.0	239.4	216.9	194.3	171.8	149.2	126.7	104.1
127.5°	294.5	275.9	257.3	236.6	215.9	195.2	174.5	153.9	133.2	112.5	91.8
130°	263.0	245.5	228.1	209.7	191.4	173.0	154.6	136.3	117.9	99.5	81.2
132.5°	231.3	215.1	198.8	182.8	166.7	150.7	134.6	118.6	102.5	86.5	70.4
135°	203.5	188.6	173.7	159.7	145.8	131.8	117.9	103.9	90.0	76.0	62.1
137.5°	176.2	163.4	150.6	138.5	126.4	114.3	102.2	90.2	78.1	66.0	53.9
140°	149.0	138.3	127.6	117.1	106.7	96.2	85.8	75.3	64.9	54.4	44.0
142.5°	125.3	116.0	106.7	97.6	88.6	79.5	70.4	61.4	52.3	43.2	34.2
145°	105.8	97.9	90.0	82.3	74.6	67.0	59.3	51.6	43.9	36.3	28.6
147.5°	87.9	81.6	75.3	68.8	62.3	55.8	49.3	42.7	36.2	29.7	23.2
150°	70.9	65.8	60.7	55.6	50.5	45.3	40.2	35.1	30.0	24.8	19.7
152.5°	58.1	54.2	50.2	46.0	41.8	37.7	33.5	29.3	25.1	21.0	16.8
155°	44.2	41.0	37.7	34.7	31.7	28.6	25.6	22.6	19.6	16.5	13.5
157.5°	31.1	28.1	25.1	23.2	21.4	19.5	17.7	15.8	14.0	12.1	10.3
160°	20.9	18.8	16.7	15.5	14.4	13.2	12.1	10.9	9.8	8.6	7.5
162.5°	14.4	13.5	12.6	11.7	10.7	9.8	8.9	7.9	7.0	6.1	5.1
165°	9.3	8.9	8.4	7.9	7.5	7.0	6.5	6.1	5.6	5.1	4.7
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: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1290.9	1294.9	1298.8	1302.8	1306.7	1310.7	1314.6	1318.6	1322.5	1326.5	1326.3
5°	1274.2	1279.3	1284.4	1289.5	1294.6	1299.8	1304.9	1310.0	1315.1	1320.2	1321.6
7.5°	1251.2	1257.7	1264.2	1270.7	1277.2	1283.8	1290.3	1296.8	1303.3	1309.8	1312.8
10°	1226.1	1233.5	1241.0	1248.4	1255.8	1263.3	1270.7	1278.1	1285.6	1293.0	1297.9
12.5°	1198.9	1207.3	1215.6	1224.0	1232.4	1240.7	1249.1	1257.5	1265.8	1274.2	1280.7
15°	1171.7	1180.5	1189.4	1198.2	1207.0	1215.9	1224.7	1233.5	1242.4	1251.2	1259.3
17.5°	1138.2	1147.7	1157.3	1166.8	1176.3	1185.9	1195.4	1204.9	1214.5	1224.0	1234.0
20°	1104.7	1114.2	1123.8	1133.3	1142.8	1152.4	1161.9	1171.4	1181.0	1190.5	1202.6
22.5°	1071.2	1080.3	1089.3	1098.4	1107.5	1116.5	1125.6	1134.7	1143.7	1152.8	1167.0
25°	1031.5	1041.0	1050.6	1060.1	1069.6	1079.2	1088.7	1098.2	1107.8	1117.3	1133.3
27.5°	991.7	1000.5	1009.4	1018.2	1027.0	1035.9	1044.7	1053.5	1062.4	1071.2	1089.6
30°	954.1	962.2	970.4	978.5	986.6	994.8	1002.9	1011.0	1019.2	1027.3	1047.8
32.5°	918.5	925.7	932.9	940.1	947.3	954.6	961.8	969.0	976.2	983.4	1005.7
35°	882.9	888.5	894.1	899.6	905.2	910.8	916.4	921.9	927.5	933.1	958.2
37.5°	849.5	853.2	856.9	860.6	864.3	868.1	871.8	875.5	879.2	882.9	910.8
40°	822.3	823.2	824.1	825.1	826.0	826.9	827.8	828.8	829.7	830.6	862.0
42.5°	799.2	796.9	794.6	792.2	789.9	787.6	785.3	782.9	780.6	778.3	813.2
45°	776.2	770.4	764.6	758.8	753.0	747.1	741.3	735.5	729.7	723.9	762.3
47.5°	753.2	744.1	735.1	726.0	716.9	707.9	698.8	689.7	680.7	671.6	713.7
50°	730.2	717.9	705.6	693.2	680.9	668.6	656.3	643.9	631.6	619.3	664.9
52.5°	709.3	693.5	677.7	661.9	646.1	630.2	614.4	598.6	582.8	567.0	616.5
55°	690.4	670.6	650.9	631.1	611.4	591.6	571.9	552.1	532.4	512.6	566.3
57.5°	671.6	648.4	625.1	601.9	578.6	555.4	532.1	508.9	485.6	462.4	520.1
60°	654.9	628.4	601.9	575.4	548.9	522.4	495.9	469.4	442.9	416.4	478.0
62.5°	638.1	608.3	578.6	548.8	519.1	489.3	459.6	429.8	400.1	370.3	435.6
65°	621.4	588.6	555.8	523.1	490.3	457.5	424.7	392.0	359.2	326.4	395.2
67.5°	602.6	567.3	531.9	496.6	461.2	425.9	390.5	355.2	319.8	284.5	356.1
70°	579.6	542.2	504.7	467.3	429.9	392.4	355.0	317.6	280.1	242.7	316.9
72.5°	554.4	515.3	476.3	437.2	398.2	359.1	320.1	281.0	242.0	202.9	278.7
75°	525.2	485.4	445.7	405.9	366.2	326.4	286.7	246.9	207.2	167.4	243.6
77.5°	487.5	448.0	408.5	368.9	329.4	289.9	250.4	210.8	171.3	131.8	207.8
80°	454.0	414.7	375.4	336.1	296.8	257.6	218.3	179.0	139.7	100.4	175.5
82.5°	418.5	379.7	340.8	302.0	263.2	224.3	185.5	146.7	107.8	69.0	142.2
85°	382.9	345.2	307.6	269.9	232.2	194.6	156.9	119.2	81.6	43.9	113.4
87.5°	347.3	310.8	274.3	237.8	201.3	164.8	128.3	91.8	55.3	18.8	85.1
90°	313.8	279.2	244.5	209.9	175.3	140.6	106.0	71.4	36.7	2.1	64.2
92.5°	290.8	258.7	226.6	194.6	162.5	130.4	98.3	66.3	34.2	2.1	59.1
95°	269.9	240.1	210.4	180.6	150.9	121.1	91.4	61.6	31.9	2.1	54.4
97.5°	251.1	223.4	195.8	168.1	140.4	112.8	85.1	57.4	29.8	2.1	50.0
100°	232.2	206.4	180.6	154.8	129.0	103.2	77.4	51.6	25.8	0.0	43.7
102.5°	213.4	189.9	166.4	143.0	119.5	96.0	72.5	49.1	25.6	2.1	41.4
105°	196.7	175.1	153.5	131.8	110.2	88.6	67.0	45.3	23.7	2.1	37.4
107.5°	179.9	160.1	140.4	120.6	100.9	81.1	61.4	41.6	21.9	2.1	33.7
110°	165.3	147.2	129.0	110.9	92.8	74.6	56.5	38.4	20.2	2.1	30.2



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	150.6	134.1	117.6	101.1	84.6	68.1	51.6	35.1	18.6	2.1	27.2
115°	136.0	121.1	106.2	91.4	76.5	61.6	46.7	31.9	17.0	2.1	24.6
117.5°	121.4	108.1	94.9	81.6	68.4	55.1	41.9	28.6	15.4	2.1	22.3
120°	106.7	94.8	83.0	71.1	59.3	47.4	35.6	23.7	11.9	0.0	18.4
122.5°	94.2	84.0	73.7	63.5	53.3	43.0	32.8	22.6	12.3	2.1	18.4
125°	81.6	72.8	63.9	55.1	46.3	37.4	28.6	19.8	10.9	2.1	16.3
127.5°	71.1	63.4	55.8	48.1	40.4	32.8	25.1	17.4	9.8	2.1	14.4
130°	62.8	56.1	49.3	42.6	35.8	29.1	22.3	15.6	8.8	2.1	12.6
132.5°	54.4	48.6	42.8	37.0	31.2	25.3	19.5	13.7	7.9	2.1	10.5
135°	48.1	43.0	37.9	32.8	27.7	22.5	17.4	12.3	7.2	2.1	8.6
137.5°	41.8	37.4	33.0	28.6	24.2	19.7	15.3	10.9	6.5	2.1	7.0
140°	33.5	30.0	26.5	23.0	19.5	16.1	12.6	9.1	5.6	2.1	5.4
142.5°	25.1	22.5	20.0	17.4	14.9	12.3	9.8	7.2	4.7	2.1	4.2
145°	20.9	18.8	16.7	14.6	12.5	10.5	8.4	6.3	4.2	2.1	3.5
147.5°	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7	2.1	3.0
150°	14.6	13.2	11.8	10.4	9.0	7.7	6.3	4.9	3.5	2.1	2.6
152.5°	12.6	11.4	10.3	9.1	7.9	6.8	5.6	4.4	3.3	2.1	2.3
155°	10.5	9.6	8.6	7.7	6.8	5.8	4.9	4.0	3.0	2.1	2.3
157.5°	8.4	7.7	7.0	6.3	5.6	4.9	4.2	3.5	2.8	2.1	2.1
160°	6.3	5.8	5.4	4.9	4.4	4.0	3.5	3.0	2.6	2.1	2.1
162.5°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.9
165°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLEDD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1326.0	1325.8	1325.6	1325.3	1325.1	1324.9	1324.6	1324.4	1325.8	1327.2	1328.6
5°	1323.0	1324.4	1325.8	1327.2	1328.6	1330.0	1331.4	1332.8	1335.6	1338.4	1341.2
7.5°	1315.8	1318.9	1321.9	1324.9	1327.9	1331.0	1334.0	1337.0	1341.2	1345.4	1349.5
10°	1302.8	1307.7	1312.6	1317.4	1322.3	1327.2	1332.1	1337.0	1342.8	1348.6	1354.4
12.5°	1287.2	1293.7	1300.2	1306.8	1313.3	1319.8	1326.3	1332.8	1340.2	1347.7	1355.1
15°	1267.5	1275.6	1283.7	1291.9	1300.0	1308.1	1316.3	1324.4	1333.9	1343.5	1353.0
17.5°	1244.0	1254.0	1264.0	1273.9	1283.9	1293.9	1303.9	1313.9	1325.5	1337.2	1348.8
20°	1214.7	1226.8	1238.9	1250.9	1263.0	1275.1	1287.2	1299.3	1313.5	1327.7	1341.8
22.5°	1181.2	1195.4	1209.6	1223.7	1237.9	1252.1	1266.3	1280.5	1298.2	1315.8	1333.5
25°	1149.4	1165.4	1181.4	1197.5	1213.5	1229.5	1245.6	1261.6	1283.5	1305.3	1327.2
27.5°	1107.9	1126.3	1144.7	1163.0	1181.4	1199.8	1218.1	1236.5	1262.5	1288.6	1314.6
30°	1068.2	1088.7	1109.1	1129.6	1150.0	1170.5	1190.9	1211.4	1242.1	1272.8	1303.5
32.5°	1028.0	1050.3	1072.6	1095.0	1117.3	1139.6	1161.9	1184.2	1219.3	1254.4	1289.5
35°	983.3	1008.4	1033.5	1058.7	1083.8	1108.9	1134.0	1159.1	1198.9	1238.6	1278.4
37.5°	938.7	966.6	994.5	1022.4	1050.3	1078.2	1106.1	1134.0	1178.4	1222.8	1267.2
40°	893.4	924.8	956.2	987.5	1018.9	1050.3	1081.7	1113.1	1162.1	1211.2	1260.2
42.5°	848.1	882.9	917.8	952.7	987.6	1022.4	1057.3	1092.2	1146.4	1200.5	1254.7
45°	800.6	839.0	877.3	915.7	954.0	992.4	1030.7	1069.1	1128.6	1188.1	1247.7
47.5°	755.8	797.8	839.9	882.0	924.1	966.1	1008.2	1050.3	1115.9	1181.4	1247.0
50°	710.4	756.0	801.6	847.1	892.7	938.3	983.8	1029.4	1101.9	1174.5	1247.0
52.5°	666.0	715.6	765.1	814.6	864.1	913.7	963.2	1012.7	1092.4	1172.2	1251.9
55°	620.0	673.7	727.4	781.1	834.8	888.5	942.2	995.9	1083.8	1171.7	1259.5
57.5°	577.7	635.4	693.0	750.7	808.3	866.0	923.6	981.3	1078.2	1175.2	1272.1
60°	539.6	601.2	662.8	724.4	786.0	847.6	909.2	970.8	1076.8	1182.8	1288.8
62.5°	501.0	566.3	631.6	697.0	762.3	827.6	893.0	958.3	1073.6	1188.9	1304.2
65°	464.0	532.8	601.6	670.5	739.3	808.1	876.9	945.7	1069.8	1194.0	1318.1
67.5°	427.7	499.3	570.9	642.6	714.2	785.8	857.4	929.0	1061.3	1193.6	1325.8
70°	391.0	465.2	539.3	613.5	687.6	761.8	835.9	910.1	1047.7	1185.4	1323.0
72.5°	354.5	430.3	506.1	581.8	657.6	733.4	809.2	885.0	1025.0	1164.9	1304.9
75°	319.9	396.1	472.4	548.6	624.9	701.1	777.4	853.6	992.9	1132.1	1271.4
77.5°	283.8	359.9	435.9	511.9	587.9	664.0	740.0	816.0	951.1	1086.1	1221.2
80°	250.6	325.7	400.8	475.8	550.9	626.0	701.1	776.2	902.9	1029.6	1156.3
82.5°	215.5	288.7	361.9	435.2	508.4	581.6	654.9	728.1	847.4	966.6	1085.9
85°	182.9	252.4	321.9	391.5	461.0	530.5	600.0	669.5	779.2	889.0	998.7
87.5°	151.3	217.6	283.8	350.1	416.3	482.6	548.8	615.1	714.6	814.1	913.6
90°	126.2	188.3	250.4	312.4	374.5	436.6	498.6	560.7	649.7	738.8	827.8
92.5°	116.0	173.0	229.9	286.9	343.8	400.8	457.7	514.7	597.0	679.3	761.6
95°	106.7	159.0	211.3	263.7	316.0	368.3	420.6	472.9	548.7	624.5	700.2
97.5°	97.9	145.8	193.7	241.5	289.4	337.3	385.2	433.1	503.5	574.0	644.4
100°	87.4	131.1	174.8	218.5	262.2	305.9	349.6	393.3	459.6	525.8	592.1
102.5°	80.7	120.0	159.3	198.5	237.8	277.1	316.4	355.7	418.7	481.7	544.7
105°	72.8	108.1	143.4	178.8	214.1	249.4	284.8	320.1	380.3	440.5	500.7
107.5°	65.3	96.9	128.5	160.2	191.8	223.4	255.0	286.6	344.5	402.4	460.3
110°	58.4	86.5	114.6	142.8	170.9	199.0	227.2	255.3	310.4	365.5	420.6



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	52.3	77.4	102.5	127.7	152.8	177.9	203.0	228.1	280.9	333.6	386.4
115°	47.2	69.7	92.3	114.8	137.4	159.9	182.5	205.0	255.2	305.4	355.7
117.5°	42.5	62.8	83.0	103.2	123.4	143.7	163.9	184.1	231.3	278.5	325.7
120°	36.7	55.1	73.5	91.8	110.2	128.6	146.9	165.3	208.8	252.2	295.7
122.5°	34.7	50.9	67.2	83.5	99.8	116.0	132.3	148.6	187.4	226.2	265.1
125°	30.5	44.6	58.8	73.0	87.2	101.3	115.5	129.7	165.0	200.4	235.7
127.5°	26.7	39.1	51.4	63.7	76.0	88.4	100.7	113.0	144.8	176.7	208.5
130°	23.0	33.5	43.9	54.4	64.8	75.3	85.7	96.2	123.9	151.5	179.2
132.5°	18.8	27.2	35.6	43.9	52.3	60.7	69.0	77.4	101.3	125.3	149.2
135°	15.1	21.6	28.1	34.7	41.2	47.7	54.2	60.7	81.6	102.5	123.5
137.5°	11.9	16.7	21.6	26.5	31.4	36.2	41.1	46.0	64.1	82.3	100.4
140°	8.6	11.9	15.1	18.4	21.6	24.9	28.1	31.4	47.4	63.5	79.5
142.5°	6.3	8.4	10.5	12.5	14.6	16.7	18.8	20.9	34.6	48.3	62.1
145°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	25.8	36.9	48.1
147.5°	4.0	4.9	5.8	6.8	7.7	8.6	9.6	10.5	19.6	28.6	37.7
150°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	13.3	20.2	27.2
152.5°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	9.1	14.0	18.8
155°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	7.2	10.2	13.3
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.7	5.3	7.0
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.2
162.5°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	0.2	0.5	0.7
165°	1.6	1.4	1.2	0.9	0.7	0.5	0.2	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: P201392

CATALOG NUMBER: 8LBLELD4-10-ASYMF-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°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1330.0	1331.4	1332.8	1334.2	1335.6	1337.0	1337.5	1337.9	1338.4	1338.8	1339.3
5°	1344.0	1346.7	1349.5	1352.3	1355.1	1357.9	1359.3	1360.7	1362.1	1363.5	1364.8
7.5°	1353.7	1357.9	1362.1	1366.2	1370.4	1374.6	1377.4	1380.2	1383.0	1385.8	1388.5
10°	1360.2	1366.1	1371.9	1377.7	1383.5	1389.3	1393.5	1397.7	1401.8	1406.0	1410.2
12.5°	1362.5	1370.0	1377.4	1384.8	1392.3	1399.7	1405.5	1411.3	1417.1	1422.9	1428.8
15°	1362.5	1372.1	1381.6	1391.1	1400.7	1410.2	1417.4	1424.6	1431.8	1439.0	1446.2
17.5°	1360.4	1372.1	1383.7	1395.3	1407.0	1418.6	1428.6	1438.6	1448.6	1458.6	1468.5
20°	1356.0	1370.2	1384.4	1398.5	1412.7	1426.9	1439.9	1452.9	1466.0	1479.0	1492.0
22.5°	1351.2	1368.8	1386.5	1404.2	1421.8	1439.5	1455.3	1471.1	1486.9	1502.7	1518.5
25°	1349.0	1370.9	1392.7	1414.6	1436.4	1458.3	1476.0	1493.6	1511.3	1529.0	1546.6
27.5°	1340.7	1366.7	1392.8	1418.8	1444.9	1470.9	1490.9	1510.9	1530.9	1550.9	1570.8
30°	1334.2	1364.8	1395.5	1426.2	1456.9	1487.6	1510.4	1533.2	1555.9	1578.7	1601.5
32.5°	1324.6	1359.8	1394.9	1430.0	1465.1	1500.2	1525.8	1551.3	1576.9	1602.5	1628.0
35°	1318.1	1357.9	1397.6	1437.4	1477.1	1516.9	1546.0	1575.0	1604.1	1633.1	1662.2
37.5°	1311.6	1356.0	1400.4	1444.8	1489.2	1533.6	1567.1	1600.6	1634.0	1667.5	1701.0
40°	1309.3	1358.3	1407.4	1456.4	1505.5	1554.5	1593.8	1633.1	1672.4	1711.7	1750.9
42.5°	1308.9	1363.0	1417.2	1471.4	1525.5	1579.7	1625.0	1670.3	1715.7	1761.0	1806.3
45°	1307.2	1366.7	1426.2	1485.8	1545.3	1604.8	1657.1	1709.4	1761.7	1814.0	1866.3
47.5°	1312.5	1378.1	1443.6	1509.2	1574.7	1640.3	1699.8	1759.3	1818.9	1878.4	1937.9
50°	1319.5	1392.1	1464.6	1537.1	1609.7	1682.2	1751.2	1820.3	1889.3	1958.4	2027.4
52.5°	1331.6	1411.4	1491.1	1570.8	1650.6	1730.3	1807.7	1885.1	1962.5	2039.9	2117.4
55°	1347.4	1435.3	1523.2	1611.0	1698.9	1786.8	1873.3	1959.8	2046.2	2132.7	2219.2
57.5°	1369.0	1466.0	1562.9	1659.8	1756.8	1853.7	1948.3	2042.9	2137.6	2232.2	2326.8
60°	1394.8	1500.9	1606.9	1712.9	1818.9	1924.9	2026.7	2128.5	2230.4	2332.2	2434.0
62.5°	1419.5	1534.8	1650.1	1765.4	1880.7	1996.0	2104.1	2212.2	2320.3	2428.4	2536.5
65°	1442.3	1566.4	1690.6	1814.7	1938.9	2063.0	2175.5	2288.0	2400.5	2513.0	2625.6
67.5°	1458.1	1590.4	1722.7	1854.9	1987.2	2119.5	2233.4	2347.3	2461.2	2575.1	2689.1
70°	1460.6	1598.3	1735.9	1873.5	2011.2	2148.8	2262.2	2375.7	2489.1	2602.6	2716.0
72.5°	1444.8	1584.8	1724.7	1864.7	2004.6	2144.6	2255.3	2365.9	2476.6	2587.2	2697.9
75°	1410.6	1549.9	1689.1	1828.4	1967.6	2106.9	2212.4	2318.0	2423.5	2529.1	2634.6
77.5°	1356.3	1491.3	1626.4	1761.5	1896.5	2031.6	2130.2	2228.7	2327.3	2425.9	2524.4
80°	1283.0	1409.7	1536.4	1663.1	1789.8	1916.5	2008.3	2100.2	2192.0	2283.8	2375.7
82.5°	1205.1	1324.4	1443.6	1562.9	1682.1	1801.4	1883.0	1964.6	2046.2	2127.8	2209.4
85°	1108.4	1218.2	1327.9	1437.6	1547.4	1657.1	1730.3	1803.5	1876.8	1950.0	2023.2
87.5°	1013.1	1112.6	1212.1	1311.6	1411.1	1510.6	1576.4	1642.2	1708.0	1773.8	1839.5
90°	916.9	1005.9	1095.0	1184.0	1273.1	1362.1	1423.2	1484.4	1545.5	1606.6	1667.8
92.5°	843.9	926.2	1008.5	1090.8	1173.1	1255.4	1310.5	1365.6	1420.7	1475.8	1530.8
95°	776.0	851.8	927.6	1003.3	1079.1	1154.9	1206.7	1258.6	1310.4	1362.3	1414.1
97.5°	714.9	785.3	855.8	926.2	996.7	1067.1	1116.1	1165.2	1214.2	1263.3	1312.3
100°	658.3	724.6	790.8	857.1	923.3	989.6	1037.0	1084.5	1131.9	1179.3	1226.8
102.5°	607.7	670.7	733.7	796.7	859.7	922.7	969.4	1016.1	1062.9	1109.6	1156.3
105°	560.9	621.2	681.4	741.6	801.8	862.0	908.0	954.1	1000.1	1046.1	1092.2
107.5°	518.2	576.0	633.9	691.8	749.7	807.6	852.9	898.3	943.6	988.9	1034.3
110°	475.7	530.7	585.8	640.9	696.0	751.1	796.2	841.3	886.4	931.5	976.6



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	439.2	491.9	544.7	597.5	650.2	703.0	746.7	790.4	834.1	877.8	921.5
115°	405.9	456.1	506.3	556.6	606.8	657.0	698.6	740.2	781.8	823.4	865.1
117.5°	372.9	420.0	467.2	514.4	561.6	608.8	648.8	688.8	728.8	768.8	808.7
120°	339.2	382.6	426.1	469.6	513.0	556.5	595.8	635.1	674.4	713.7	752.9
122.5°	303.9	342.7	381.5	420.4	459.2	498.0	537.1	576.1	615.2	654.2	693.3
125°	271.0	306.4	341.7	377.0	412.4	447.7	484.7	521.6	558.6	595.6	632.5
127.5°	240.4	272.2	304.1	335.9	367.8	399.6	433.5	467.5	501.4	535.4	569.3
130°	206.9	234.5	262.2	289.9	317.5	345.2	376.4	407.5	438.7	469.8	501.0
132.5°	173.2	197.1	221.1	245.0	269.0	292.9	321.7	350.6	379.4	408.2	437.1
135°	144.4	165.3	186.2	207.2	228.1	249.0	275.0	301.1	327.1	353.1	379.2
137.5°	118.5	136.7	154.8	172.9	191.1	209.2	232.2	255.2	278.3	301.3	324.3
140°	95.5	111.6	127.6	143.6	159.7	175.7	194.8	213.8	232.9	252.0	271.0
142.5°	75.8	89.5	103.2	117.0	130.7	144.4	160.4	176.5	192.5	208.5	224.6
145°	59.3	70.4	81.6	92.8	103.9	115.1	128.8	142.5	156.2	169.9	183.7
147.5°	46.8	55.8	64.9	74.0	83.0	92.1	103.0	113.9	124.9	135.8	146.7
150°	34.2	41.1	48.1	55.1	62.0	69.0	78.1	87.1	96.2	105.3	114.3
152.5°	23.7	28.6	33.5	38.3	43.2	48.1	55.3	62.5	69.7	76.9	84.2
155°	16.3	19.3	22.3	25.4	28.4	31.4	37.0	42.6	48.1	53.7	59.3
157.5°	8.6	10.2	11.8	13.5	15.1	16.7	20.9	25.1	29.3	33.5	37.6
160°	4.9	5.6	6.3	7.0	7.7	8.4	11.0	13.5	16.1	18.6	21.2
162.5°	0.9	1.2	1.4	1.6	1.9	2.1	3.3	4.4	5.6	6.8	7.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.9	1.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLEDD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1339.7	1340.2	1340.6	1341.1	1339.5	1337.9	1336.2	1334.6	1333.0	1331.4	1329.7
5°	1366.2	1367.6	1369.0	1370.4	1369.9	1369.5	1369.0	1368.5	1368.1	1367.6	1367.1
7.5°	1391.3	1394.1	1396.9	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7
10°	1414.4	1418.5	1422.7	1426.9	1426.9	1426.9	1426.9	1426.9	1426.9	1426.9	1426.9
12.5°	1434.6	1440.4	1446.2	1452.0	1452.9	1453.9	1454.8	1455.7	1456.7	1457.6	1458.5
15°	1453.4	1460.6	1467.8	1475.0	1476.9	1478.7	1480.6	1482.5	1484.3	1486.2	1488.1
17.5°	1478.5	1488.5	1498.5	1508.5	1511.5	1514.5	1517.6	1520.6	1523.6	1526.6	1529.7
20°	1505.0	1518.1	1531.1	1544.1	1548.1	1552.0	1556.0	1559.9	1563.9	1567.8	1571.8
22.5°	1534.3	1550.1	1565.9	1581.7	1586.1	1590.5	1595.0	1599.4	1603.8	1608.2	1612.7
25°	1564.3	1582.0	1599.6	1617.3	1622.9	1628.5	1634.0	1639.6	1645.2	1650.8	1656.3
27.5°	1590.8	1610.8	1630.8	1650.8	1657.8	1664.8	1671.7	1678.7	1685.7	1692.7	1699.6
30°	1624.3	1647.0	1669.8	1692.6	1700.3	1708.0	1715.6	1723.3	1731.0	1738.7	1746.3
32.5°	1653.6	1679.2	1704.7	1730.3	1740.1	1749.8	1759.6	1769.4	1779.1	1788.9	1798.7
35°	1691.2	1720.3	1749.3	1778.4	1790.7	1803.0	1815.4	1827.7	1840.0	1852.3	1864.7
37.5°	1734.5	1767.9	1801.4	1834.9	1849.8	1864.7	1879.5	1894.4	1909.3	1924.2	1939.0
40°	1790.2	1829.5	1868.8	1908.1	1925.1	1942.1	1959.0	1976.0	1993.0	2010.0	2026.9
42.5°	1851.6	1897.0	1942.3	1987.6	2007.4	2027.1	2046.9	2066.7	2086.4	2106.2	2126.0
45°	1918.6	1970.9	2023.2	2075.5	2099.0	2122.5	2145.9	2169.4	2192.9	2216.4	2239.8
47.5°	1997.4	2057.0	2116.5	2176.0	2203.9	2231.8	2259.7	2287.6	2315.4	2343.3	2371.2
50°	2096.5	2165.5	2234.6	2303.6	2334.3	2365.0	2395.7	2426.4	2457.0	2487.7	2518.4
52.5°	2194.8	2272.2	2349.6	2427.0	2461.4	2495.8	2530.2	2564.6	2599.1	2633.5	2667.9
55°	2305.7	2392.1	2478.6	2565.1	2602.1	2639.0	2676.0	2713.0	2749.9	2786.9	2823.9
57.5°	2421.4	2516.1	2610.7	2705.3	2744.6	2783.9	2823.2	2862.5	2901.7	2941.0	2980.3
60°	2535.8	2637.7	2739.5	2841.3	2880.6	2919.9	2959.2	2998.5	3037.7	3077.0	3116.3
62.5°	2644.6	2752.7	2860.8	2968.9	3008.9	3048.9	3088.9	3128.9	3168.8	3208.8	3248.8
65°	2738.1	2850.6	2963.1	3075.6	3114.0	3152.3	3190.7	3229.0	3267.4	3305.7	3344.1
67.5°	2803.0	2916.9	3030.8	3144.7	3181.0	3217.2	3253.5	3289.8	3326.0	3362.3	3398.6
70°	2829.5	2942.9	3056.4	3169.8	3204.2	3238.6	3273.0	3307.4	3341.8	3376.2	3410.6
72.5°	2808.5	2919.2	3029.8	3140.5	3173.3	3206.1	3238.8	3271.6	3304.4	3337.2	3369.9
75°	2740.2	2845.7	2951.3	3056.8	3088.0	3119.1	3150.3	3181.4	3212.6	3243.7	3274.9
77.5°	2623.0	2721.6	2820.1	2918.7	2948.5	2978.2	3008.0	3037.7	3067.5	3097.2	3127.0
80°	2467.5	2559.3	2651.2	2743.0	2770.9	2798.8	2826.7	2854.6	2882.4	2910.3	2938.2
82.5°	2291.0	2372.6	2454.2	2535.8	2562.5	2589.3	2616.0	2642.7	2669.5	2696.2	2722.9
85°	2096.4	2169.7	2242.9	2316.1	2341.4	2366.8	2392.1	2417.5	2442.8	2468.2	2493.5
87.5°	1905.3	1971.1	2036.9	2102.7	2126.4	2150.1	2173.8	2197.5	2221.3	2245.0	2268.7
90°	1728.9	1790.0	1851.2	1912.3	1934.6	1956.9	1979.3	2001.6	2023.9	2046.2	2068.6
92.5°	1585.9	1641.0	1696.1	1751.2	1772.1	1793.0	1814.0	1834.9	1855.8	1876.7	1897.7
95°	1466.0	1517.8	1569.7	1621.5	1641.0	1660.6	1680.1	1699.6	1719.2	1738.7	1758.2
97.5°	1361.4	1410.4	1459.5	1508.5	1527.3	1546.2	1565.0	1583.8	1602.7	1621.5	1640.3
100°	1274.2	1321.6	1369.1	1416.5	1434.9	1453.2	1471.6	1489.9	1508.3	1526.6	1545.0
102.5°	1203.0	1249.8	1296.5	1343.2	1361.1	1379.0	1396.9	1414.8	1432.7	1450.6	1468.5
105°	1138.2	1184.2	1230.3	1276.3	1294.0	1311.6	1329.3	1347.0	1364.6	1382.3	1400.0
107.5°	1079.6	1124.9	1170.3	1215.6	1233.0	1250.5	1267.9	1285.3	1302.8	1320.2	1337.6
110°	1021.7	1066.8	1111.9	1157.0	1174.4	1191.9	1209.3	1226.7	1244.2	1261.6	1279.0



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-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°	965.2	1008.9	1052.6	1096.3	1113.3	1130.3	1147.2	1164.2	1181.2	1198.2	1215.1
115°	906.7	948.3	989.9	1031.5	1048.0	1064.5	1081.0	1097.5	1114.0	1130.5	1147.0
117.5°	848.7	888.7	928.7	968.7	984.5	1000.3	1016.1	1031.9	1047.8	1063.6	1079.4
120°	792.2	831.5	870.8	910.1	925.0	939.9	954.7	969.6	984.5	999.4	1014.2
122.5°	732.3	771.4	810.4	849.5	864.1	878.8	893.4	908.1	922.7	937.4	952.0
125°	669.5	706.5	743.4	780.4	795.3	810.2	825.0	839.9	854.8	869.7	884.5
127.5°	603.3	637.2	671.2	705.1	720.0	734.9	749.7	764.6	779.5	794.4	809.2
130°	532.1	563.3	594.4	625.6	639.8	654.0	668.1	682.3	696.5	710.7	724.8
132.5°	465.9	494.7	523.6	552.4	564.9	577.5	590.0	602.6	615.1	627.7	640.2
135°	405.2	431.2	457.3	483.3	493.8	504.2	514.7	525.2	535.6	546.1	556.6
137.5°	347.3	370.4	393.4	416.4	425.7	435.0	444.3	453.6	462.9	472.2	481.5
140°	290.1	309.2	328.2	347.3	356.8	366.4	375.9	385.4	395.0	404.5	414.0
142.5°	240.6	256.6	272.7	288.7	298.0	307.3	316.6	325.9	335.2	344.5	353.8
145°	197.4	211.1	224.8	238.5	247.6	256.6	265.7	274.8	283.8	292.9	302.0
147.5°	157.6	168.6	179.5	190.4	199.7	209.0	218.3	227.6	236.9	246.2	255.5
150°	123.4	132.5	141.5	150.6	159.2	167.8	176.4	185.0	193.7	202.3	210.9
152.5°	91.4	98.6	105.8	113.0	121.1	129.3	137.4	145.5	153.7	161.8	169.9
155°	64.9	70.4	76.0	81.6	88.8	96.0	103.2	110.4	117.7	124.9	132.1
157.5°	41.8	46.0	50.2	54.4	60.4	66.5	72.5	78.6	84.6	90.7	96.7
160°	23.7	26.3	28.8	31.4	36.0	40.7	45.3	50.0	54.6	59.3	63.9
162.5°	9.1	10.3	11.4	12.6	16.1	19.6	23.0	26.5	30.0	33.5	36.9
165°	1.4	1.6	1.9	2.1	4.0	5.8	7.7	9.5	11.4	13.2	15.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1305.6	1305.6
2.5°	1328.1	1326.5
5°	1366.7	1366.2
7.5°	1399.7	1399.7
10°	1426.9	1426.9
12.5°	1459.5	1460.4
15°	1489.9	1491.8
17.5°	1532.7	1535.7
20°	1575.7	1579.7
22.5°	1617.1	1621.5
25°	1661.9	1667.5
27.5°	1706.6	1713.6
30°	1754.0	1761.7
32.5°	1808.4	1818.2
35°	1877.0	1889.3
37.5°	1953.9	1968.8
40°	2043.9	2060.9
42.5°	2145.7	2165.5
45°	2263.3	2286.8
47.5°	2399.1	2427.0
50°	2549.1	2579.8
52.5°	2702.3	2736.7
55°	2860.8	2897.8
57.5°	3019.6	3058.9
60°	3155.6	3194.9
62.5°	3288.8	3328.8
65°	3382.4	3420.8
67.5°	3434.8	3471.1
70°	3445.0	3479.4
72.5°	3402.7	3435.5
75°	3306.0	3337.2
77.5°	3156.7	3186.5
80°	2966.1	2994.0
82.5°	2749.7	2776.4
85°	2518.9	2544.2
87.5°	2292.4	2316.1
90°	2090.9	2113.2
92.5°	1918.6	1939.5
95°	1777.8	1797.3
97.5°	1659.2	1678.0
100°	1563.3	1581.7
102.5°	1486.4	1504.3
105°	1417.6	1435.3
107.5°	1355.1	1372.5
110°	1296.5	1313.9



TEST NUMBER: P201392

CATALOG NUMBER: 8LBLED-LD4-10-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1232.1	1249.1
115°	1163.5	1180.0
117.5°	1095.2	1111.0
120°	1029.1	1044.0
122.5°	966.7	981.3
125°	899.4	914.3
127.5°	824.1	839.0
130°	739.0	753.2
132.5°	652.8	665.3
135°	567.0	577.5
137.5°	490.8	500.1
140°	423.6	433.1
142.5°	363.1	372.4
145°	311.0	320.1
147.5°	264.8	274.1
150°	219.5	228.1
152.5°	178.1	186.2
155°	139.3	146.5
157.5°	102.8	108.8
160°	68.6	73.2
162.5°	40.4	43.9
165°	16.9	18.8
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)