

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: P201395

Luminaire Tested: **8LBLED-LD4-12-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28234)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLELD4-12-ASYMF-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 8000 lm, Frst Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT85W01250CC), (OT50W0800CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13574.1 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

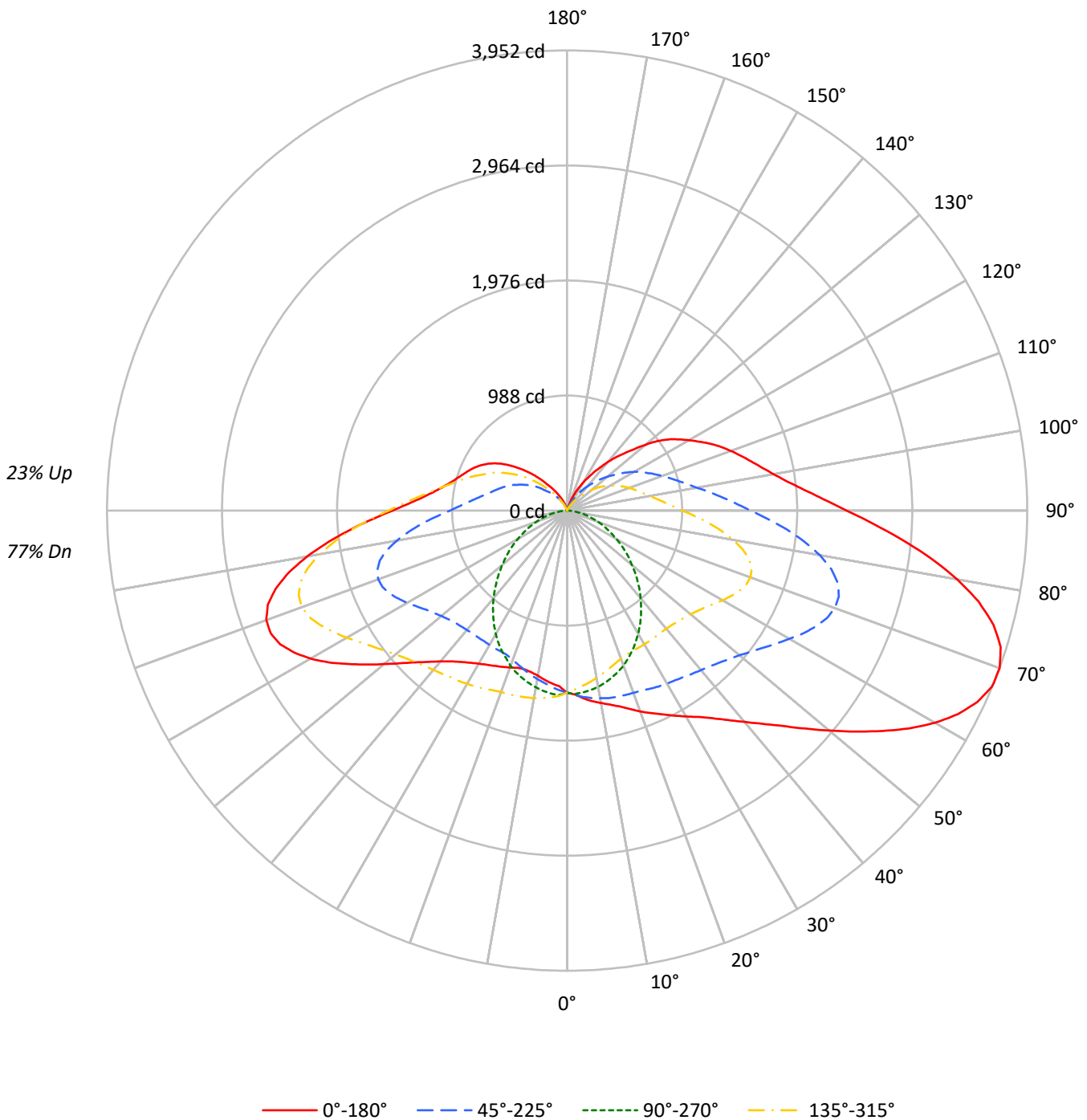
Input Watts (W): 96.83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLEDD4-12-ASYMF-UNV-L850-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L850-CD2-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	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	41	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	12	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°	12596	12596	12596	12596
5°	11812	12649	10870	12733
10°	11257	12511	9663	12563
15°	10886	12294	8826	12346
20°	10834	12022	8461	12057
25°	10855	11645	8276	11663
30°	11044	11197	8213	11234
35°	11434	10672	8334	10692
40°	12179	10106	8694	10127
45°	13264	9492	9351	9492
50°	14830	8819	10349	8845
55°	16681	8244	11612	8244
60°	18608	7457	12980	7522
65°	20190	6851	14117	6889
70°	21055	6187	14647	6187
75°	20898	5383	14281	5383
80°	19575	4383	13038	4468
85°	17530	3121	11320	3271



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L850-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.1
10°-20°	432.8	3.2
20°-30°	698.3	5.1
30°-40°	947.6	7.0
40°-50°	1218.7	9.0
50°-60°	1562.5	11.5
60°-70°	1910.8	14.1
70°-80°	1947.6	14.3
80°-90°	1519.7	11.2
90°-100°	1058.6	7.8
100°-110°	789.5	5.8
110°-120°	592.6	4.4
120°-130°	402.0	3.0
130°-140°	220.9	1.6
140°-150°	94.0	0.7
150°-160°	27.6	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1279.5	9.4
0°-40°	2227.0	16.4
0°-60°	5008.2	36.9
0°-90°	10386.3	76.5
90°-120°	2440.8	18.0
90°-150°	3157.6	23.3
90°-180°	3188.0	23.5
0°-180°	13574.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1563	1563	1563	1563	1563	
5°	1620	1568	1490	1578	1620	156
15°	1741	1484	1411	1490	1741	498
25°	1930	1326	1472	1328	1930	898
35°	2176	1105	1586	1107	2176	1378
45°	2614	855	1843	855	2614	2043
55°	3300	609	2297	609	3300	2965
65°	3888	379	2718	382	3888	3829
75°	3792	190	2591	190	3792	3964
85°	2889	44	1866	46	2889	2467
90°	2399	0	1497	0	2399	1320
95°	2041	0	1253	0	2041	1620
105°	1634	0	1005	0	1634	1735
115°	1357	0	876	2	1357	1347
125°	1067	0	702	2	1067	952
135°	696	0	461	2	696	548
145°	400	0	246	2	400	257
155°	177	0	113	2	177	86
165°	21	0	19	2	21	9
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1582.2	1582.0	1581.7	1581.5	1581.3	1581.0	1580.8	1580.6	1580.3	1580.1	1580.8
5°	1619.7	1618.3	1616.9	1615.5	1614.1	1612.8	1611.4	1610.0	1608.6	1607.2	1607.2
7.5°	1651.0	1648.9	1646.8	1644.7	1642.6	1640.6	1638.5	1636.4	1634.3	1632.2	1631.3
10°	1678.1	1675.3	1672.5	1669.8	1667.0	1664.2	1661.4	1658.7	1655.9	1653.1	1651.2
12.5°	1707.3	1704.1	1700.8	1697.6	1694.3	1691.1	1687.8	1684.6	1681.3	1678.1	1674.9
15°	1740.6	1736.9	1733.2	1729.5	1725.8	1722.1	1718.4	1714.7	1711.0	1707.3	1701.5
17.5°	1786.5	1781.4	1776.3	1771.2	1766.1	1761.0	1755.9	1750.8	1745.7	1740.6	1731.8
20°	1836.5	1829.8	1823.1	1816.4	1809.7	1802.9	1796.2	1789.5	1782.8	1776.1	1763.8
22.5°	1882.4	1874.3	1866.2	1858.1	1850.0	1841.8	1833.7	1825.6	1817.5	1809.4	1794.1
25°	1930.3	1921.5	1912.7	1903.9	1895.1	1886.3	1877.5	1868.7	1859.9	1851.1	1833.0
27.5°	1984.5	1974.3	1964.1	1953.9	1943.7	1933.6	1923.4	1913.2	1903.0	1892.8	1871.7
30°	2040.8	2029.5	2018.1	2006.8	1995.4	1984.1	1972.7	1961.4	1950.0	1938.7	1913.9
32.5°	2101.3	2088.1	2074.9	2061.7	2048.5	2035.3	2022.1	2008.9	1995.7	1982.5	1954.2
35°	2176.3	2160.8	2145.3	2129.8	2114.3	2098.7	2083.2	2067.7	2052.2	2036.7	2004.3
37.5°	2266.0	2247.9	2229.9	2211.8	2193.7	2175.7	2157.6	2139.5	2121.5	2103.4	2065.9
40°	2368.1	2347.3	2326.4	2305.6	2284.7	2263.9	2243.0	2222.2	2201.3	2180.5	2137.0
42.5°	2482.8	2458.9	2435.1	2411.2	2387.3	2363.5	2339.6	2315.7	2291.9	2268.0	2217.5
45°	2614.1	2587.2	2560.4	2533.5	2506.6	2479.8	2452.9	2426.0	2399.2	2372.3	2313.9
47.5°	2770.4	2739.6	2708.8	2678.0	2647.2	2616.4	2585.6	2554.8	2524.0	2493.2	2425.8
50°	2939.3	2904.6	2869.8	2835.1	2800.3	2765.6	2730.8	2696.1	2661.3	2626.6	2549.5
52.5°	3116.5	3078.7	3041.0	3003.2	2965.5	2927.7	2890.0	2852.2	2814.5	2776.7	2689.1
55°	3299.9	3259.4	3218.8	3178.3	3137.8	3097.2	3056.7	3016.2	2975.6	2935.1	2837.1
57.5°	3481.3	3438.7	3396.1	3353.4	3310.8	3268.2	3225.6	3182.9	3140.3	3097.7	2989.8
60°	3646.0	3602.9	3559.8	3516.7	3473.6	3430.6	3387.5	3344.4	3301.3	3258.2	3141.0
62.5°	3785.6	3743.0	3700.4	3657.8	3615.2	3572.5	3529.9	3487.3	3444.7	3402.1	3277.9
65°	3887.8	3846.8	3805.8	3764.8	3723.8	3682.8	3641.8	3600.8	3559.8	3518.8	3389.6
67.5°	3950.3	3910.7	3871.1	3831.5	3791.9	3752.2	3712.6	3673.0	3633.4	3593.8	3462.7
70°	3952.4	3915.8	3879.2	3842.6	3806.0	3769.4	3732.8	3696.2	3659.6	3623.0	3492.4
72.5°	3904.5	3869.5	3834.5	3799.6	3764.6	3729.6	3694.6	3659.7	3624.7	3589.7	3462.8
75°	3791.9	3758.8	3725.7	3692.5	3659.4	3626.3	3593.2	3560.0	3526.9	3493.8	3372.9
77.5°	3620.9	3589.4	3557.9	3526.4	3494.9	3463.4	3431.9	3400.4	3368.9	3337.4	3224.8
80°	3402.1	3372.4	3342.8	3313.1	3283.5	3253.8	3224.2	3194.5	3164.9	3135.2	3031.7
82.5°	3154.0	3126.0	3098.0	3069.9	3041.9	3013.9	2985.9	2957.8	2929.8	2901.8	2808.0
85°	2889.3	2863.1	2836.9	2810.8	2784.6	2758.4	2732.2	2706.1	2679.9	2653.7	2569.9
87.5°	2632.8	2607.6	2582.3	2557.1	2531.8	2506.6	2481.3	2456.1	2430.8	2405.6	2330.6
90°	2399.4	2375.8	2352.1	2328.5	2304.9	2281.2	2257.6	2234.0	2210.3	2186.7	2118.6
92.5°	2203.4	2181.4	2159.4	2137.4	2115.4	2093.4	2071.4	2049.4	2027.4	2005.4	1943.1
95°	2040.8	2020.0	1999.1	1978.3	1957.4	1936.6	1915.7	1894.9	1874.0	1853.2	1795.1
97.5°	1905.3	1885.2	1865.0	1844.9	1824.7	1804.6	1784.4	1764.3	1744.1	1724.0	1668.9
100°	1799.0	1779.3	1759.6	1739.9	1720.2	1700.6	1680.9	1661.2	1641.5	1621.8	1567.1
102.5°	1709.4	1689.7	1670.0	1650.3	1630.6	1611.0	1591.3	1571.6	1551.9	1532.2	1478.9
105°	1634.3	1614.6	1594.9	1575.2	1555.5	1535.9	1516.2	1496.5	1476.8	1457.1	1404.8
107.5°	1565.5	1546.0	1526.6	1507.1	1487.7	1468.2	1448.8	1429.3	1409.9	1390.4	1338.8
110°	1496.7	1477.5	1458.3	1439.0	1419.8	1400.6	1381.4	1362.1	1342.9	1323.7	1273.2



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1430.0	1410.5	1391.1	1371.6	1352.2	1332.7	1313.3	1293.8	1274.4	1254.9	1206.0
115°	1357.1	1337.9	1318.7	1299.4	1280.2	1261.0	1241.8	1222.5	1203.3	1184.1	1137.3
117.5°	1279.9	1261.8	1243.8	1225.7	1207.6	1189.6	1171.5	1153.4	1135.4	1117.3	1073.1
120°	1207.0	1189.9	1172.7	1155.6	1138.4	1121.3	1104.1	1087.0	1069.8	1052.7	1009.6
122.5°	1138.2	1121.5	1104.8	1088.2	1071.5	1054.8	1038.1	1021.5	1004.8	988.1	945.9
125°	1067.3	1050.9	1034.4	1018.0	1001.5	985.1	968.6	952.2	935.7	919.3	878.5
127.5°	981.8	966.1	950.3	934.6	918.8	903.1	887.3	871.6	855.8	840.1	802.3
130°	879.7	865.8	851.9	838.0	824.1	810.2	796.3	782.4	768.5	754.6	721.2
132.5°	781.7	769.9	758.1	746.3	734.5	722.6	710.8	699.0	687.2	675.4	645.5
135°	696.3	686.3	676.4	666.4	656.4	646.5	636.5	626.5	616.6	606.6	579.3
137.5°	621.2	611.9	602.7	593.4	584.1	574.9	565.6	556.3	547.1	537.8	513.0
140°	546.2	537.2	528.1	519.1	510.1	501.0	492.0	483.0	473.9	464.9	443.4
142.5°	466.9	459.7	452.5	445.4	438.2	431.0	423.8	416.7	409.5	402.3	383.3
145°	400.2	394.0	387.7	381.5	375.2	369.0	362.7	356.5	350.2	344.0	327.3
147.5°	337.7	332.1	326.6	321.0	315.5	309.9	304.4	298.8	293.3	287.7	273.3
150°	279.3	274.7	270.0	265.4	260.8	256.1	251.5	246.9	242.2	237.6	225.1
152.5°	227.2	223.0	218.9	214.7	210.5	206.4	202.2	198.0	193.9	189.7	179.0
155°	177.2	173.7	170.2	166.8	163.3	159.8	156.3	152.9	149.4	145.9	136.6
157.5°	129.2	126.4	123.6	120.9	118.1	115.3	112.5	109.8	107.0	104.2	96.8
160°	87.6	85.0	82.5	79.9	77.4	74.8	72.3	69.7	67.2	64.6	59.7
162.5°	47.9	46.5	45.1	43.7	42.3	41.0	39.6	38.2	36.8	35.4	32.4
165°	20.8	20.1	19.4	18.7	18.0	17.4	16.7	16.0	15.3	14.6	13.2
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°
0°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1581.5	1582.2	1582.9	1583.6	1584.3	1585.0	1585.7	1586.4	1583.8	1581.3	1578.7
5°	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1603.0	1598.9	1594.7
7.5°	1630.4	1629.4	1628.5	1627.6	1626.7	1625.7	1624.8	1623.9	1618.1	1612.3	1606.5
10°	1649.4	1647.5	1645.7	1643.8	1642.0	1640.1	1638.3	1636.4	1628.8	1621.1	1613.5
12.5°	1671.6	1668.4	1665.1	1661.9	1658.6	1655.4	1652.1	1648.9	1638.9	1629.0	1619.0
15°	1695.7	1689.9	1684.1	1678.4	1672.6	1666.8	1661.0	1655.2	1643.4	1631.6	1619.8
17.5°	1723.0	1714.2	1705.4	1696.6	1687.8	1679.0	1670.2	1661.4	1647.3	1633.2	1619.0
20°	1751.5	1739.3	1727.0	1714.7	1702.4	1690.2	1677.9	1665.6	1648.7	1631.8	1614.9
22.5°	1778.8	1763.5	1748.2	1733.0	1717.7	1702.4	1687.1	1671.8	1651.7	1631.5	1611.4
25°	1815.0	1796.9	1778.8	1760.8	1742.7	1724.6	1706.6	1688.5	1663.5	1638.5	1613.5
27.5°	1850.6	1829.6	1808.5	1787.4	1766.3	1745.3	1724.2	1703.1	1673.2	1643.3	1613.5
30°	1889.1	1864.3	1839.5	1814.8	1790.0	1765.2	1740.4	1715.6	1680.6	1645.6	1610.7
32.5°	1926.0	1897.7	1869.4	1841.2	1812.9	1784.6	1756.4	1728.1	1688.3	1648.4	1608.6
35°	1971.8	1939.4	1907.0	1874.5	1842.1	1809.7	1777.2	1744.8	1699.6	1654.5	1609.3
37.5°	2028.4	1990.8	1953.3	1915.8	1878.3	1840.7	1803.2	1765.7	1715.2	1664.7	1614.2
40°	2093.4	2049.9	2006.3	1962.8	1919.2	1875.7	1832.1	1788.6	1732.8	1677.0	1621.1
42.5°	2167.0	2116.5	2066.0	2015.6	1965.1	1914.6	1864.1	1813.6	1752.2	1690.8	1629.5
45°	2255.6	2197.2	2138.8	2080.5	2022.1	1963.7	1905.4	1847.0	1779.1	1711.3	1643.4
47.5°	2358.4	2291.0	2223.6	2156.2	2088.8	2021.4	1954.0	1886.6	1811.6	1736.5	1661.5
50°	2472.3	2395.2	2318.1	2240.9	2163.8	2086.7	2009.5	1932.4	1849.7	1767.0	1684.3
52.5°	2601.6	2514.0	2426.5	2338.9	2251.4	2163.8	2076.3	1988.7	1897.2	1805.7	1714.2
55°	2739.1	2641.2	2543.2	2445.2	2347.2	2249.3	2151.3	2053.3	1952.5	1851.8	1751.0
57.5°	2881.8	2773.9	2666.0	2558.0	2450.1	2342.2	2234.2	2126.3	2015.4	1904.4	1793.5
60°	3023.8	2906.6	2789.4	2672.2	2555.0	2437.8	2320.6	2203.4	2082.3	1961.1	1840.0
62.5°	3153.8	3029.6	2905.5	2781.3	2657.2	2533.0	2408.9	2284.7	2152.9	2021.1	1889.3
65°	3260.3	3131.1	3001.8	2872.6	2743.3	2614.1	2484.8	2355.6	2214.1	2072.6	1931.0
67.5°	3331.6	3200.5	3069.4	2938.4	2807.3	2676.2	2545.1	2414.0	2263.7	2113.4	1963.0
70°	3361.7	3231.1	3100.5	2969.8	2839.2	2708.6	2577.9	2447.3	2290.7	2134.1	1977.6
72.5°	3335.8	3208.9	3082.0	2955.0	2828.1	2701.2	2574.2	2447.3	2287.3	2127.2	1967.2
75°	3252.0	3131.1	3010.2	2889.2	2768.3	2647.4	2526.5	2405.6	2246.2	2086.9	1927.5
77.5°	3112.3	2999.7	2887.1	2774.6	2662.0	2549.4	2436.9	2324.3	2169.3	2014.4	1859.4
80°	2928.1	2824.6	2721.1	2617.5	2514.0	2410.5	2306.9	2203.4	2056.3	1909.2	1762.2
82.5°	2714.2	2620.4	2526.6	2432.7	2338.9	2245.1	2151.3	2057.5	1920.4	1783.3	1646.1
85°	2486.0	2402.2	2318.3	2234.5	2150.6	2066.8	1982.9	1899.1	1773.1	1647.1	1521.1
87.5°	2255.5	2180.5	2105.4	2030.4	1955.3	1880.3	1805.2	1730.2	1616.2	1502.3	1388.3
90°	2050.5	1982.4	1914.3	1846.3	1778.2	1710.1	1642.0	1573.9	1470.4	1366.8	1263.3
92.5°	1880.8	1818.5	1756.2	1693.8	1631.5	1569.2	1506.9	1444.6	1350.3	1256.1	1161.8
95°	1736.9	1678.8	1620.7	1562.5	1504.4	1446.3	1388.1	1330.0	1243.4	1156.7	1070.1
97.5°	1613.7	1558.6	1503.5	1448.3	1393.2	1338.1	1282.9	1227.8	1147.2	1066.6	986.0
100°	1512.5	1457.8	1403.2	1348.5	1293.9	1239.2	1184.6	1129.9	1055.5	981.2	906.8
102.5°	1425.6	1372.4	1319.1	1265.8	1212.5	1159.3	1106.0	1052.7	982.3	911.9	841.5
105°	1352.4	1300.1	1247.7	1195.4	1143.0	1090.7	1038.3	986.0	918.8	851.7	784.5
107.5°	1287.1	1235.5	1183.8	1132.2	1080.5	1028.9	977.2	925.6	861.2	796.8	732.4
110°	1222.7	1172.2	1121.7	1071.3	1020.8	970.3	919.8	869.3	807.5	745.6	683.8



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	1157.2	1108.3	1059.4	1010.6	961.7	912.8	864.0	815.1	756.3	697.4	638.6
115°	1090.5	1043.7	996.9	950.2	903.4	856.6	809.8	763.0	706.7	650.4	594.1
117.5°	1028.8	984.6	940.4	896.1	851.9	807.7	763.4	719.2	665.2	611.3	557.3
120°	966.5	923.5	880.4	837.3	794.2	751.2	708.1	665.0	614.5	564.0	513.5
122.5°	903.8	861.6	819.5	777.3	735.2	693.0	650.9	608.7	562.1	515.6	469.0
125°	837.8	797.0	756.2	715.5	674.7	633.9	593.2	552.4	509.6	466.7	423.9
127.5°	764.6	726.8	689.1	651.3	613.6	575.8	538.1	500.3	460.9	421.5	382.2
130°	687.9	654.5	621.2	587.8	554.5	521.1	487.8	454.4	418.0	381.7	345.3
132.5°	615.6	585.8	555.9	526.0	496.1	466.3	436.4	406.5	373.1	339.8	306.4
135°	551.9	524.6	497.3	469.9	442.6	415.3	387.9	360.6	330.5	300.4	270.3
137.5°	488.2	463.5	438.7	413.9	389.1	364.4	339.6	314.8	287.7	260.6	233.5
140°	421.8	400.3	378.7	357.2	335.6	314.1	292.5	271.0	246.7	222.4	198.0
142.5°	364.3	345.3	326.3	307.4	288.4	269.4	250.4	231.4	209.9	188.3	166.8
145°	310.6	294.0	277.3	260.6	243.9	227.3	210.6	193.9	175.1	156.4	137.6
147.5°	259.0	244.6	230.2	215.9	201.5	187.1	172.8	158.4	142.4	126.4	110.5
150°	212.6	200.1	187.6	175.1	162.6	150.1	137.6	125.1	112.1	99.1	86.2
152.5°	168.4	157.7	147.1	136.4	125.8	115.1	104.5	93.8	83.8	73.9	63.9
155°	127.4	118.1	108.8	99.6	90.3	81.0	71.8	62.5	55.8	49.1	42.4
157.5°	89.4	82.0	74.6	67.1	59.7	52.3	44.9	37.5	33.3	29.2	25.0
160°	54.9	50.0	45.1	40.3	35.4	30.5	25.7	20.8	18.5	16.2	13.9
162.5°	29.4	26.4	23.4	20.3	17.3	14.3	11.3	8.3	7.4	6.5	5.5
165°	11.8	10.4	9.0	7.7	6.3	4.9	3.5	2.1	1.9	1.6	1.4
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1576.2	1573.6	1571.1	1568.5	1566.0	1563.4	1564.8	1566.2	1567.6	1569.0	1570.4
5°	1590.5	1586.4	1582.2	1578.0	1573.9	1569.7	1569.5	1569.2	1569.0	1568.8	1568.5
7.5°	1600.7	1595.0	1589.2	1583.4	1577.6	1571.8	1569.9	1568.1	1566.2	1564.4	1562.5
10°	1605.8	1598.2	1590.5	1582.9	1575.2	1567.6	1564.1	1560.6	1557.2	1553.7	1550.2
12.5°	1609.1	1599.1	1589.2	1579.2	1569.3	1559.3	1554.2	1549.1	1544.0	1538.9	1533.8
15°	1608.0	1596.1	1584.3	1572.5	1560.7	1548.9	1541.7	1534.5	1527.3	1520.1	1513.0
17.5°	1604.9	1590.8	1576.7	1562.5	1548.4	1534.3	1525.3	1516.2	1507.2	1498.2	1489.1
20°	1598.0	1581.0	1564.1	1547.2	1530.3	1513.4	1502.5	1491.6	1480.7	1469.8	1459.0
22.5°	1591.2	1571.1	1550.9	1530.8	1510.6	1490.5	1477.3	1464.1	1450.9	1437.7	1424.5
25°	1588.5	1563.4	1538.4	1513.4	1488.4	1463.4	1448.1	1432.8	1417.5	1402.2	1387.0
27.5°	1583.6	1553.7	1523.8	1494.0	1464.1	1434.2	1416.4	1398.5	1380.7	1362.9	1345.0
30°	1575.7	1540.7	1505.7	1470.8	1435.8	1400.8	1380.9	1361.0	1341.1	1321.2	1301.2
32.5°	1568.8	1528.9	1489.1	1449.3	1409.4	1369.6	1346.7	1323.7	1300.8	1277.9	1254.9
35°	1564.1	1519.0	1473.8	1428.6	1383.5	1338.3	1312.4	1286.4	1260.5	1234.5	1208.6
37.5°	1563.7	1513.2	1462.7	1412.2	1361.7	1311.2	1281.3	1251.4	1221.6	1191.7	1161.8
40°	1565.3	1509.5	1453.7	1397.8	1342.0	1286.2	1252.4	1218.6	1184.7	1150.9	1117.1
42.5°	1568.1	1506.7	1445.3	1384.0	1322.6	1261.2	1223.2	1185.2	1147.2	1109.2	1071.3
45°	1575.5	1507.7	1439.8	1371.9	1304.1	1236.2	1193.8	1151.4	1109.0	1066.6	1024.3
47.5°	1586.4	1511.4	1436.3	1361.3	1286.2	1211.2	1164.6	1118.1	1071.5	1024.9	978.4
50°	1601.6	1519.0	1436.3	1353.6	1270.9	1188.2	1136.8	1085.4	1033.9	982.5	931.1
52.5°	1622.7	1531.3	1439.8	1348.3	1256.8	1165.3	1110.4	1055.5	1000.6	945.7	890.8
55°	1650.3	1549.5	1448.8	1348.0	1247.3	1146.5	1086.7	1027.0	967.2	907.5	847.7
57.5°	1682.5	1571.6	1460.6	1349.7	1238.7	1127.8	1063.6	999.5	935.3	871.1	807.0
60°	1718.9	1597.7	1476.6	1355.5	1234.3	1113.2	1043.2	973.3	903.3	833.4	763.4
62.5°	1757.5	1625.8	1494.0	1362.2	1230.4	1098.6	1024.7	950.8	876.9	803.0	729.2
65°	1789.5	1648.0	1506.5	1364.9	1223.4	1081.9	1003.8	925.8	847.7	769.7	691.6
67.5°	1812.7	1662.4	1512.1	1361.7	1211.4	1061.1	979.8	898.5	817.2	735.9	654.6
70°	1821.0	1664.4	1507.8	1351.3	1194.7	1038.1	954.0	869.9	785.9	701.8	617.7
72.5°	1807.1	1647.1	1487.0	1327.0	1166.9	1006.9	921.0	835.0	749.1	663.2	577.2
75°	1768.2	1608.8	1449.5	1290.1	1130.8	971.4	884.5	797.7	710.8	624.0	537.1
77.5°	1704.5	1549.5	1394.6	1239.6	1084.7	929.7	842.8	756.0	669.1	582.3	495.4
80°	1615.1	1468.0	1320.9	1173.9	1026.8	879.7	794.0	708.3	622.6	536.9	451.2
82.5°	1509.0	1371.9	1234.8	1097.6	960.5	823.4	740.0	656.6	573.3	489.9	406.5
85°	1395.1	1269.0	1143.0	1017.0	891.0	765.0	684.9	604.7	524.6	444.5	364.3
87.5°	1274.4	1160.4	1046.5	932.5	818.6	704.6	628.2	551.7	475.3	398.9	322.4
90°	1159.8	1056.2	952.7	849.2	745.6	642.1	570.8	499.4	428.1	356.7	285.4
92.5°	1067.5	973.3	879.0	784.7	690.5	596.2	530.0	463.7	397.5	331.2	265.0
95°	983.5	896.8	810.2	723.6	636.9	550.3	489.2	428.0	366.9	305.7	244.6
97.5°	905.4	824.8	744.2	663.6	583.0	502.4	446.6	390.8	334.9	279.1	223.3
100°	832.5	758.1	683.8	609.4	535.1	460.7	409.5	358.3	307.1	255.9	204.8
102.5°	771.1	700.6	630.2	559.8	489.4	419.0	372.4	325.9	279.3	232.8	186.2
105°	717.3	650.2	583.0	515.8	448.7	381.5	339.1	296.7	254.3	211.9	169.6
107.5°	668.0	603.6	539.2	474.8	410.4	346.0	307.6	269.1	230.7	192.2	153.8
110°	621.9	560.1	498.2	436.4	374.5	312.7	278.0	243.2	208.5	173.7	139.0



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	579.8	520.9	462.1	403.3	344.4	285.6	253.9	222.1	190.4	158.7	126.9
115°	537.8	481.6	425.3	369.0	312.7	256.4	227.9	199.4	170.9	142.4	114.0
117.5°	503.3	449.4	395.4	341.4	287.5	233.5	207.6	181.6	155.7	129.7	103.8
120°	463.0	412.5	362.0	311.5	261.0	210.5	187.1	163.7	140.3	116.9	93.6
122.5°	422.5	375.9	329.4	282.8	236.3	189.7	168.6	147.5	126.5	105.4	84.3
125°	381.0	338.2	295.3	252.5	209.6	166.8	148.3	129.7	111.2	92.7	74.1
127.5°	342.8	303.4	264.0	224.7	185.3	145.9	129.7	113.5	97.3	81.1	64.8
130°	309.0	272.6	236.3	199.9	163.6	127.2	113.1	98.9	84.8	70.7	56.5
132.5°	273.1	239.7	206.4	173.0	139.7	106.3	94.5	82.7	70.9	59.1	47.2
135°	240.2	210.0	179.9	149.8	119.7	89.6	79.6	69.7	59.7	49.8	39.8
137.5°	206.4	179.3	152.2	125.1	98.0	70.9	63.0	55.1	47.3	39.4	31.5
140°	173.7	149.4	125.1	100.7	76.4	52.1	46.3	40.5	34.7	28.9	23.2
142.5°	145.2	123.7	102.1	80.6	59.0	37.5	33.3	29.2	25.0	20.8	16.7
145°	118.8	100.1	81.3	62.5	43.8	25.0	22.2	19.4	16.7	13.9	11.1
147.5°	94.5	78.5	62.5	46.6	30.6	14.6	13.0	11.4	9.7	8.1	6.5
150°	73.2	60.2	47.2	34.3	21.3	8.3	7.4	6.5	5.5	4.6	3.7
152.5°	54.0	44.0	34.1	24.1	14.2	4.2	3.7	3.3	2.8	2.3	1.9
155°	35.7	28.9	22.2	15.5	8.8	2.1	1.9	1.6	1.4	1.2	0.9
157.5°	20.8	16.7	12.5	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	11.6	9.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	4.6	3.7	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.2	0.9	0.7	0.5	0.2	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: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1571.8	1573.2	1574.6	1576.0	1572.5	1569.0	1565.6	1562.1	1558.6	1555.1	1551.7
5°	1568.3	1568.1	1567.8	1567.6	1563.2	1558.8	1554.4	1550.0	1545.6	1541.2	1536.8
7.5°	1560.7	1558.8	1557.0	1555.1	1549.5	1544.0	1538.4	1532.9	1527.3	1521.8	1516.2
10°	1546.7	1543.3	1539.8	1536.3	1530.1	1523.8	1517.6	1511.3	1505.1	1498.8	1492.6
12.5°	1528.7	1523.6	1518.5	1513.4	1506.2	1499.0	1491.9	1484.7	1477.5	1470.3	1463.2
15°	1505.8	1498.6	1491.4	1484.2	1476.8	1469.4	1462.0	1454.6	1447.1	1439.7	1432.3
17.5°	1480.1	1471.1	1462.0	1453.0	1445.4	1437.7	1430.1	1422.4	1414.8	1407.1	1399.5
20°	1448.1	1437.2	1426.3	1415.4	1407.5	1399.7	1391.8	1383.9	1376.1	1368.2	1360.3
22.5°	1411.3	1398.1	1384.9	1371.7	1364.3	1356.9	1349.5	1342.1	1334.6	1327.2	1319.8
25°	1371.7	1356.4	1341.1	1325.8	1318.9	1311.9	1305.0	1298.0	1291.1	1284.1	1277.2
27.5°	1327.2	1309.4	1291.5	1273.7	1267.7	1261.7	1255.6	1249.6	1243.6	1237.6	1231.5
30°	1281.3	1261.4	1241.5	1221.6	1216.0	1210.5	1204.9	1199.3	1193.8	1188.2	1182.6
32.5°	1232.0	1209.1	1186.1	1163.2	1159.3	1155.3	1151.4	1147.5	1143.5	1139.6	1135.7
35°	1182.6	1156.7	1130.7	1104.8	1102.7	1100.6	1098.6	1096.5	1094.4	1092.3	1090.3
37.5°	1131.9	1102.1	1072.2	1042.3	1042.8	1043.2	1043.7	1044.2	1044.6	1045.1	1045.6
40°	1083.3	1049.4	1015.6	981.8	985.3	988.8	992.2	995.7	999.2	1002.7	1006.1
42.5°	1033.3	995.3	957.3	919.3	926.5	933.7	940.8	948.0	955.2	962.4	969.5
45°	981.9	939.5	897.1	854.7	865.8	876.9	888.0	899.1	910.3	921.4	932.5
47.5°	931.8	885.2	838.7	792.1	806.9	821.8	836.6	851.4	866.3	881.1	895.9
50°	879.7	828.2	776.8	725.4	744.6	763.9	783.1	802.3	821.6	840.8	860.0
52.5°	835.9	781.0	726.1	671.2	693.9	716.6	739.3	762.0	784.7	807.4	830.1
55°	788.0	728.2	668.5	608.7	635.6	662.4	689.3	716.2	743.0	769.9	796.8
57.5°	742.8	678.6	614.5	550.3	581.6	612.9	644.1	675.4	706.7	738.0	769.2
60°	693.5	623.5	553.6	483.6	519.7	555.9	592.0	628.1	664.3	700.4	736.5
62.5°	655.3	581.4	507.5	433.6	473.0	512.4	551.7	591.1	630.5	669.9	709.2
65°	613.6	535.5	457.5	379.4	422.2	465.1	507.9	550.8	593.6	636.5	679.3
67.5°	573.3	492.0	410.7	329.4	375.3	421.1	467.0	512.8	558.7	604.5	650.4
70°	533.6	449.6	365.5	281.4	329.6	377.8	425.9	474.1	522.3	570.5	618.6
72.5°	491.3	405.4	319.4	233.5	283.3	333.1	382.9	432.7	482.5	532.3	582.1
75°	450.3	363.4	276.6	189.7	240.4	291.1	341.9	392.6	443.3	494.0	544.8
77.5°	408.6	321.7	234.9	148.0	199.2	250.4	301.6	352.8	403.9	455.1	506.3
80°	365.5	279.8	194.1	108.4	159.4	210.3	261.3	312.2	363.2	414.1	465.1
82.5°	323.1	239.8	156.4	73.0	123.0	173.0	223.1	273.1	323.1	373.1	423.2
85°	284.2	204.1	123.9	43.8	91.5	139.2	186.9	234.6	282.4	330.1	377.8
87.5°	246.0	169.6	93.1	16.7	62.8	108.9	155.0	201.1	247.1	293.2	339.3
90°	214.0	142.7	71.3	0.0	43.3	86.6	129.9	173.2	216.6	259.9	303.2
92.5°	198.7	132.5	66.2	0.0	40.3	80.6	120.9	161.2	201.5	241.8	282.1
95°	183.4	122.3	61.1	0.0	37.5	75.0	112.6	150.1	187.6	225.1	262.7
97.5°	167.5	111.6	55.8	0.0	34.5	69.0	103.5	138.0	172.6	207.1	241.6
100°	153.6	102.4	51.2	0.0	32.0	63.9	95.9	127.9	159.8	191.8	223.8
102.5°	139.7	93.1	46.6	0.0	29.4	58.8	88.2	117.6	147.1	176.5	205.9
105°	127.2	84.8	42.4	0.0	26.9	53.7	80.6	107.5	134.3	161.2	188.1
107.5°	115.3	76.9	38.4	0.0	24.6	49.1	73.7	98.2	122.8	147.3	171.9
110°	104.2	69.5	34.7	0.0	22.5	44.9	67.4	89.9	112.3	134.8	157.3



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	95.2	63.5	31.7	0.0	20.4	40.8	61.1	81.5	101.9	122.3	142.6
115°	85.5	57.0	28.5	0.0	18.1	36.1	54.2	72.3	90.3	108.4	126.5
117.5°	77.8	51.9	25.9	0.0	16.2	32.4	48.6	64.8	81.1	97.3	113.5
120°	70.2	46.8	23.4	0.0	14.6	29.2	43.8	58.4	72.9	87.5	102.1
122.5°	63.2	42.2	21.1	0.0	13.0	25.9	38.9	51.9	64.8	77.8	90.8
125°	55.6	37.1	18.5	0.0	11.6	23.2	34.7	46.3	57.9	69.5	81.0
127.5°	48.6	32.4	16.2	0.0	10.0	19.9	29.9	39.8	49.8	59.7	69.7
130°	42.4	28.3	14.1	0.0	8.3	16.7	25.0	33.3	41.7	50.0	58.3
132.5°	35.4	23.6	11.8	0.0	6.9	13.9	20.8	27.8	34.7	41.7	48.6
135°	29.9	19.9	10.0	0.0	5.6	11.1	16.7	22.2	27.8	33.3	38.9
137.5°	23.6	15.8	7.9	0.0	4.2	8.3	12.5	16.7	20.8	25.0	29.2
140°	17.4	11.6	5.8	0.0	3.0	6.0	9.0	12.0	15.1	18.1	21.1
142.5°	12.5	8.3	4.2	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0
145°	8.3	5.6	2.8	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.1
147.5°	4.9	3.2	1.6	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.5
150°	2.8	1.8	0.9	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
152.5°	1.4	0.9	0.5	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3
155°	0.7	0.5	0.2	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1548.2	1544.7	1543.8	1542.8	1541.9	1541.0	1540.0	1539.1	1538.2	1537.2	1536.3
5°	1532.4	1528.0	1526.1	1524.3	1522.4	1520.6	1518.7	1516.9	1515.0	1513.2	1511.3
7.5°	1510.7	1505.1	1503.0	1500.9	1498.8	1496.7	1494.7	1492.6	1490.5	1488.4	1486.3
10°	1486.3	1480.1	1477.8	1475.5	1473.1	1470.8	1468.5	1466.2	1463.8	1461.5	1459.2
12.5°	1456.0	1448.8	1446.7	1444.6	1442.5	1440.4	1438.4	1436.3	1434.2	1432.1	1430.0
15°	1424.9	1417.5	1415.9	1414.3	1412.6	1411.0	1409.4	1407.8	1406.1	1404.5	1402.9
17.5°	1391.8	1384.2	1383.3	1382.3	1381.4	1380.5	1379.5	1378.6	1377.7	1376.7	1375.8
20°	1352.5	1344.6	1345.5	1346.4	1347.4	1348.3	1349.2	1350.1	1351.1	1352.0	1352.9
22.5°	1312.4	1305.0	1308.5	1311.9	1315.4	1318.9	1322.3	1325.8	1329.3	1332.7	1336.2
25°	1270.2	1263.3	1270.5	1277.7	1284.8	1292.0	1299.2	1306.4	1313.5	1320.7	1327.9
27.5°	1225.5	1219.5	1231.5	1243.6	1255.6	1267.7	1279.7	1291.8	1303.8	1315.9	1327.9
30°	1177.1	1171.5	1188.6	1205.8	1222.9	1240.1	1257.2	1274.4	1291.5	1308.7	1325.8
32.5°	1131.7	1127.8	1149.6	1171.3	1193.1	1214.9	1236.6	1258.4	1280.2	1301.9	1323.7
35°	1088.2	1086.1	1112.3	1138.4	1164.6	1190.8	1216.9	1243.1	1269.3	1295.4	1321.6
37.5°	1046.0	1046.5	1077.1	1107.6	1138.2	1168.8	1199.3	1229.9	1260.5	1291.0	1321.6
40°	1009.6	1013.1	1047.8	1082.6	1117.3	1152.1	1186.8	1221.6	1256.3	1291.1	1325.8
42.5°	976.7	983.9	1022.6	1061.3	1100.0	1138.7	1177.3	1216.0	1254.7	1293.4	1332.1
45°	943.6	954.7	998.0	1041.3	1084.7	1128.0	1171.3	1214.6	1258.0	1301.3	1344.6
47.5°	910.8	925.6	974.0	1022.4	1070.8	1119.2	1167.6	1216.0	1264.4	1312.8	1361.2
50°	879.3	898.5	952.5	1006.4	1060.4	1114.4	1168.3	1222.3	1276.3	1330.2	1384.2
52.5°	852.8	875.5	935.3	995.0	1054.8	1114.6	1174.3	1234.1	1293.9	1353.6	1413.4
55°	823.6	850.5	917.0	983.5	1049.9	1116.4	1182.9	1249.4	1315.8	1382.3	1448.8
57.5°	800.5	831.8	905.2	978.6	1052.1	1125.5	1198.9	1272.3	1345.8	1419.2	1492.6
60°	772.7	808.8	890.1	971.4	1052.7	1134.0	1215.3	1296.6	1377.9	1459.2	1540.5
62.5°	748.6	788.0	876.9	965.9	1054.8	1143.8	1232.7	1321.7	1410.6	1499.6	1588.5
65°	722.2	765.0	861.4	957.7	1054.1	1150.4	1246.8	1343.1	1439.5	1535.8	1632.2
67.5°	696.2	742.1	844.5	946.9	1049.2	1151.6	1254.0	1356.4	1458.7	1561.1	1663.5
70°	666.8	715.0	821.8	928.6	1035.3	1142.1	1248.9	1355.7	1462.4	1569.2	1676.0
72.5°	631.9	681.7	790.6	899.4	1008.3	1117.1	1226.0	1334.8	1443.7	1552.5	1661.4
75°	595.5	646.2	754.1	862.1	970.0	1077.9	1185.9	1293.8	1401.7	1509.7	1617.6
77.5°	557.5	608.7	712.7	816.7	920.7	1024.7	1128.7	1232.7	1336.7	1440.7	1544.7
80°	516.0	567.0	664.7	762.5	860.2	958.0	1055.7	1153.5	1251.2	1349.0	1446.7
82.5°	473.2	523.2	613.5	703.9	794.2	884.5	974.9	1065.2	1155.5	1245.9	1336.2
85°	425.5	473.2	556.1	639.0	722.0	804.9	887.8	970.7	1053.7	1136.6	1219.5
87.5°	385.4	431.5	505.6	579.7	653.9	728.0	802.1	876.2	950.4	1024.5	1098.6
90°	346.5	389.8	456.3	522.8	589.2	655.7	722.2	788.7	855.1	921.6	988.1
92.5°	322.4	362.7	422.7	482.7	542.7	602.7	662.6	722.6	782.6	842.6	902.6
95°	300.2	337.7	392.8	447.9	503.1	558.2	613.3	668.4	723.6	778.7	833.8
97.5°	276.1	310.6	362.0	413.4	464.9	516.3	567.7	619.1	670.6	722.0	773.4
100°	255.7	287.7	335.9	384.1	432.2	480.4	528.6	576.8	624.9	673.1	721.3
102.5°	235.3	264.7	310.6	356.4	402.3	448.2	494.0	539.9	585.8	631.6	677.5
105°	214.9	241.8	285.8	329.8	373.8	417.8	461.9	505.9	549.9	593.9	637.9
107.5°	196.4	221.0	263.4	305.8	348.1	390.5	432.9	475.3	517.6	560.0	602.4
110°	179.7	202.2	243.0	283.7	324.5	365.3	406.0	446.8	487.6	528.3	569.1



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	163.0	183.4	222.5	261.7	300.8	340.0	379.1	418.3	457.4	496.6	535.7
115°	144.5	162.6	199.7	236.7	273.8	310.8	347.9	384.9	422.0	459.0	496.1
117.5°	129.7	145.9	181.1	216.3	251.5	286.7	322.0	357.2	392.4	427.6	462.8
120°	116.7	131.3	164.2	197.1	230.0	262.9	295.7	328.6	361.5	394.4	427.3
122.5°	103.7	116.7	147.3	177.9	208.4	239.0	269.6	300.2	330.7	361.3	391.9
125°	92.6	104.2	132.2	160.3	188.3	216.3	244.4	272.4	300.4	328.5	356.5
127.5°	79.6	89.6	114.9	140.1	165.4	190.6	215.9	241.1	266.4	291.6	316.9
130°	66.7	75.0	97.0	119.0	141.0	163.0	185.1	207.1	229.1	251.1	273.1
132.5°	55.6	62.5	81.0	99.6	118.1	136.6	155.2	173.7	192.2	210.8	229.3
135°	44.4	50.0	66.2	82.4	98.7	114.9	131.1	147.3	163.6	179.8	196.0
137.5°	33.3	37.5	51.6	65.8	79.9	94.0	108.2	122.3	136.4	150.6	164.7
140°	24.1	27.1	39.4	51.7	63.9	76.2	88.5	100.8	113.0	125.3	137.6
142.5°	14.8	16.7	27.4	38.0	48.7	59.3	70.0	80.6	91.3	101.9	112.6
145°	9.2	10.4	19.2	28.0	36.8	45.6	54.4	63.2	72.0	80.8	89.6
147.5°	7.4	8.3	15.3	22.2	29.2	36.1	43.1	50.0	57.0	63.9	70.9
150°	5.6	6.3	11.6	16.9	22.3	27.6	32.9	38.2	43.6	48.9	54.2
152.5°	3.7	4.2	8.1	12.1	16.0	19.9	23.9	27.8	31.7	35.7	39.6
155°	1.9	2.1	4.6	7.2	9.7	12.3	14.8	17.4	19.9	22.5	25.0
157.5°	0.0	0.0	1.4	2.8	4.2	5.6	6.9	8.3	9.7	11.1	12.5
160°	0.0	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1535.1	1534.0	1532.8	1531.7	1530.5	1529.4	1528.2	1527.1	1525.9	1524.3	1522.7
5°	1509.7	1508.1	1506.4	1504.8	1503.2	1501.6	1499.9	1498.3	1496.7	1496.0	1495.3
7.5°	1484.4	1482.6	1480.7	1478.9	1477.0	1475.2	1473.3	1471.5	1469.6	1469.4	1469.2
10°	1457.8	1456.4	1455.0	1453.6	1452.3	1450.9	1449.5	1448.1	1446.7	1446.0	1445.3
12.5°	1429.3	1428.6	1427.9	1427.2	1426.6	1425.9	1425.2	1424.5	1423.8	1423.6	1423.3
15°	1403.1	1403.4	1403.6	1403.8	1404.1	1404.3	1404.5	1404.8	1405.0	1405.7	1406.4
17.5°	1378.4	1380.9	1383.5	1386.0	1388.6	1391.1	1393.7	1396.2	1398.8	1400.6	1402.5
20°	1358.7	1364.5	1370.3	1376.1	1381.8	1387.6	1393.4	1399.2	1405.0	1408.2	1411.5
22.5°	1345.5	1354.7	1364.0	1373.3	1382.5	1391.8	1401.1	1410.3	1419.6	1423.3	1427.0
25°	1339.7	1351.5	1363.3	1375.1	1387.0	1398.8	1410.6	1422.4	1434.2	1438.4	1442.5
27.5°	1341.3	1354.8	1368.2	1381.6	1395.1	1408.5	1421.9	1435.4	1448.8	1453.7	1458.5
30°	1341.1	1356.4	1371.7	1387.0	1402.2	1417.5	1432.8	1448.1	1463.4	1469.4	1475.4
32.5°	1341.3	1358.9	1376.5	1394.1	1411.7	1429.3	1446.9	1464.5	1482.1	1489.5	1496.9
35°	1342.0	1362.4	1382.8	1403.2	1423.5	1443.9	1464.3	1484.7	1505.1	1514.1	1523.2
37.5°	1345.5	1369.3	1393.2	1417.0	1440.9	1464.7	1488.6	1512.4	1536.3	1547.0	1557.6
40°	1353.4	1380.9	1408.5	1436.1	1463.6	1491.2	1518.8	1546.3	1573.9	1586.9	1599.8
42.5°	1364.3	1396.5	1428.7	1460.9	1493.0	1525.2	1557.4	1589.6	1621.8	1637.3	1652.8
45°	1381.9	1419.2	1456.5	1493.8	1531.0	1568.3	1605.6	1642.9	1680.2	1698.3	1716.3
47.5°	1404.5	1447.8	1491.2	1534.5	1577.8	1621.1	1664.5	1707.8	1751.1	1771.9	1792.8
50°	1434.5	1484.7	1535.0	1585.2	1635.5	1685.7	1736.0	1786.2	1836.5	1860.4	1884.2
52.5°	1470.8	1528.3	1585.7	1643.1	1700.6	1758.0	1815.4	1872.9	1930.3	1956.9	1983.6
55°	1514.1	1579.4	1644.8	1710.1	1775.4	1840.7	1906.1	1971.4	2036.7	2065.6	2094.6
57.5°	1565.1	1637.6	1710.1	1782.6	1855.1	1927.6	2000.1	2072.6	2145.1	2176.4	2207.6
60°	1619.7	1698.9	1778.2	1857.4	1936.6	2015.8	2095.1	2174.3	2253.5	2285.7	2317.9
62.5°	1673.5	1758.5	1843.5	1928.5	2013.5	2098.5	2183.5	2268.5	2353.5	2385.5	2417.4
65°	1721.4	1810.6	1899.7	1988.9	2078.1	2167.3	2256.4	2345.6	2434.8	2466.3	2497.8
67.5°	1754.8	1846.0	1937.3	2028.5	2119.8	2211.0	2302.3	2393.5	2484.8	2514.9	2545.0
70°	1767.0	1858.1	1949.1	2040.1	2131.2	2222.2	2313.2	2404.3	2495.3	2523.6	2551.8
72.5°	1750.3	1839.3	1928.2	2017.2	2106.1	2195.1	2284.0	2373.0	2461.9	2487.8	2513.8
75°	1702.1	1786.7	1871.2	1955.8	2040.3	2124.9	2209.4	2294.0	2378.5	2402.1	2425.8
77.5°	1623.2	1701.7	1780.3	1858.8	1937.3	2015.8	2094.4	2172.9	2251.4	2273.2	2294.9
80°	1518.0	1589.4	1660.7	1732.1	1803.4	1874.8	1946.1	2017.5	2088.8	2108.5	2128.2
82.5°	1399.9	1463.6	1527.3	1591.0	1654.7	1718.4	1782.1	1845.8	1909.5	1927.1	1944.7
85°	1275.8	1332.1	1388.3	1444.6	1500.9	1557.2	1613.4	1669.7	1726.0	1741.5	1757.0
87.5°	1147.9	1197.3	1246.6	1295.9	1345.3	1394.6	1443.9	1493.3	1542.6	1556.7	1570.9
90°	1031.6	1075.2	1118.7	1162.3	1205.8	1249.4	1292.9	1336.5	1380.0	1393.0	1405.9
92.5°	941.7	980.9	1020.0	1059.2	1098.3	1137.5	1176.6	1215.8	1254.9	1266.7	1278.5
95°	869.5	905.2	940.8	976.5	1012.2	1047.9	1083.5	1119.2	1154.9	1165.8	1176.7
97.5°	807.0	840.6	874.2	907.8	941.3	974.9	1008.5	1042.1	1075.7	1086.1	1096.5
100°	753.5	785.7	817.9	850.1	882.2	914.4	946.6	978.8	1011.0	1021.2	1031.4
102.5°	708.8	740.0	771.3	802.6	833.8	865.1	896.4	927.6	958.9	968.9	978.8
105°	668.7	699.5	730.3	761.1	791.9	822.7	853.5	884.3	915.1	925.1	935.0
107.5°	633.2	664.0	694.8	725.6	756.5	787.3	818.1	848.9	879.7	889.7	899.6
110°	599.4	629.8	660.1	690.5	720.8	751.2	781.5	811.9	842.2	852.6	863.0



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLELD-4-12-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°	566.3	596.9	627.4	658.0	688.6	719.2	749.7	780.3	810.9	821.6	832.2
115°	527.1	558.2	589.2	620.3	651.3	682.4	713.4	744.5	775.5	786.6	797.7
117.5°	493.4	523.9	554.5	585.1	615.6	646.2	676.8	707.3	737.9	749.3	760.6
120°	457.2	487.1	517.0	546.9	576.7	606.6	636.5	666.4	696.3	707.9	719.5
122.5°	420.4	448.9	477.4	505.9	534.3	562.8	591.3	619.8	648.3	660.1	671.9
125°	383.4	410.2	437.1	464.0	490.8	517.7	544.6	571.4	598.3	609.9	621.5
127.5°	342.4	367.9	393.3	418.8	444.3	469.8	495.2	520.7	546.2	557.1	568.0
130°	297.0	320.8	344.7	368.5	392.4	416.2	440.1	463.9	487.8	498.5	509.1
132.5°	252.5	275.6	298.8	322.0	345.1	368.3	391.5	414.6	437.8	447.3	456.8
135°	217.1	238.2	259.2	280.3	301.4	322.5	343.5	364.6	385.7	394.0	402.4
137.5°	182.8	200.8	218.9	237.0	255.0	273.1	291.2	309.2	327.3	335.9	344.4
140°	152.0	166.3	180.7	195.0	209.4	223.7	238.1	252.4	266.8	275.6	284.4
142.5°	124.9	137.2	149.4	161.7	174.0	186.3	198.5	210.8	223.1	230.3	237.5
145°	100.0	110.4	120.9	131.3	141.7	152.1	162.6	173.0	183.4	190.4	197.3
147.5°	79.5	88.0	96.6	105.2	113.7	122.3	130.9	139.4	148.0	154.5	161.0
150°	61.1	68.1	75.0	82.0	88.9	95.9	102.8	109.8	116.7	123.0	129.2
152.5°	44.9	50.3	55.6	60.9	66.3	71.6	76.9	82.3	87.6	93.4	99.2
155°	29.4	33.8	38.2	42.6	47.0	51.4	55.8	60.2	64.6	69.9	75.3
157.5°	16.0	19.5	22.9	26.4	29.9	33.4	36.8	40.3	43.8	48.4	53.1
160°	6.7	9.3	11.8	14.4	16.9	19.5	22.0	24.6	27.1	31.0	35.0
162.5°	1.2	2.3	3.5	4.6	5.8	6.9	8.1	9.2	10.4	13.4	16.4
165°	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	4.0	5.8
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1521.0	1519.4	1517.8	1516.2	1514.5	1512.9	1511.3	1512.7	1514.1	1515.5	1516.9
5°	1494.6	1493.9	1493.3	1492.6	1491.9	1491.2	1490.5	1491.2	1491.9	1492.6	1493.3
7.5°	1468.9	1468.7	1468.5	1468.3	1468.0	1467.8	1467.6	1467.8	1468.0	1468.3	1468.5
10°	1444.6	1443.9	1443.3	1442.6	1441.9	1441.2	1440.5	1440.7	1440.9	1441.2	1441.4
12.5°	1423.1	1422.9	1422.6	1422.4	1422.2	1421.9	1421.7	1421.5	1421.2	1421.0	1420.8
15°	1407.1	1407.8	1408.5	1409.2	1409.9	1410.6	1411.3	1410.6	1409.9	1409.2	1408.5
17.5°	1404.3	1406.2	1408.0	1409.9	1411.7	1413.6	1415.4	1413.6	1411.7	1409.9	1408.0
20°	1414.7	1418.0	1421.2	1424.5	1427.7	1431.0	1434.2	1430.5	1426.8	1423.1	1419.4
22.5°	1430.7	1434.4	1438.2	1441.9	1445.6	1449.3	1453.0	1448.4	1443.7	1439.1	1434.5
25°	1446.7	1450.9	1455.0	1459.2	1463.4	1467.5	1471.7	1466.8	1462.0	1457.1	1452.2
27.5°	1463.4	1468.3	1473.1	1478.0	1482.9	1487.7	1492.6	1487.0	1481.5	1475.9	1470.3
30°	1481.5	1487.5	1493.5	1499.5	1505.6	1511.6	1517.6	1511.1	1504.6	1498.1	1491.6
32.5°	1504.4	1511.8	1519.2	1526.6	1534.1	1541.5	1548.9	1541.3	1533.6	1526.0	1518.3
35°	1532.2	1541.2	1550.3	1559.3	1568.3	1577.4	1586.4	1577.4	1568.3	1559.3	1550.3
37.5°	1568.3	1578.9	1589.6	1600.2	1610.9	1621.5	1632.2	1621.5	1610.9	1600.2	1589.6
40°	1612.8	1625.8	1638.7	1651.7	1664.7	1677.6	1690.6	1678.1	1665.6	1653.1	1640.6
42.5°	1668.4	1683.9	1699.4	1714.9	1730.5	1746.0	1761.5	1746.7	1731.9	1717.0	1702.2
45°	1734.4	1752.5	1770.5	1788.6	1806.7	1824.7	1842.8	1826.4	1809.9	1793.5	1777.0
47.5°	1813.6	1834.5	1855.3	1876.2	1897.0	1917.9	1938.7	1919.7	1900.7	1881.7	1862.7
50°	1908.1	1931.9	1955.8	1979.6	2003.5	2027.3	2051.2	2029.2	2007.2	1985.2	1963.2
52.5°	2010.2	2036.9	2063.5	2090.2	2116.8	2143.5	2170.1	2146.0	2121.9	2097.8	2073.7
55°	2123.5	2152.5	2181.4	2210.4	2239.3	2268.3	2297.2	2271.3	2245.3	2219.4	2193.5
57.5°	2238.9	2270.2	2301.4	2332.7	2364.0	2395.2	2426.5	2398.7	2370.9	2343.1	2315.3
60°	2350.1	2382.3	2414.4	2446.6	2478.8	2511.0	2543.2	2514.7	2486.2	2457.7	2429.2
62.5°	2449.4	2481.4	2513.3	2545.3	2577.3	2609.2	2641.2	2613.2	2585.1	2557.1	2529.1
65°	2529.3	2560.8	2592.3	2623.8	2655.3	2686.8	2718.3	2691.0	2663.6	2636.3	2609.0
67.5°	2575.1	2605.2	2635.4	2665.5	2695.6	2725.7	2755.8	2729.6	2703.5	2677.3	2651.1
70°	2580.1	2608.3	2636.6	2664.8	2693.1	2721.3	2749.6	2725.0	2700.5	2675.9	2651.4
72.5°	2539.7	2565.7	2591.6	2617.6	2643.5	2669.5	2695.4	2672.2	2649.1	2625.9	2602.7
75°	2449.4	2473.0	2496.7	2520.3	2543.9	2567.6	2591.2	2569.7	2548.1	2526.6	2505.0
77.5°	2316.7	2338.5	2360.2	2382.0	2403.8	2425.5	2447.3	2427.2	2407.0	2386.9	2366.7
80°	2147.9	2167.6	2187.2	2206.9	2226.6	2246.3	2266.0	2247.0	2228.0	2209.0	2190.0
82.5°	1962.3	1979.9	1997.5	2015.1	2032.7	2050.3	2067.9	2049.8	2031.8	2013.7	1995.6
85°	1772.6	1788.1	1803.6	1819.1	1834.7	1850.2	1865.7	1849.0	1832.3	1815.7	1799.0
87.5°	1585.0	1599.1	1613.3	1627.4	1641.5	1655.7	1669.8	1656.4	1642.9	1629.5	1616.1
90°	1418.9	1431.9	1444.8	1457.8	1470.8	1483.7	1496.7	1484.2	1471.7	1459.2	1446.7
92.5°	1290.3	1302.1	1314.0	1325.8	1337.6	1349.4	1361.2	1349.4	1337.6	1325.8	1314.0
95°	1187.5	1198.4	1209.3	1220.2	1231.0	1241.9	1252.8	1242.2	1231.5	1220.9	1210.2
97.5°	1107.0	1117.4	1127.8	1138.2	1148.7	1159.1	1169.5	1159.3	1149.1	1138.9	1128.7
100°	1041.6	1051.8	1062.0	1072.2	1082.4	1092.6	1102.8	1093.1	1083.3	1073.6	1063.9
102.5°	988.8	998.8	1008.7	1018.7	1028.7	1038.6	1048.6	1038.9	1029.1	1019.4	1009.7
105°	945.0	955.0	964.9	974.9	984.9	994.8	1004.8	995.5	986.3	977.0	967.7
107.5°	909.6	919.5	929.5	939.4	949.4	959.3	969.3	959.8	950.3	940.8	931.3
110°	873.5	883.9	894.3	904.7	915.2	925.6	936.0	926.3	916.5	906.8	897.1



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	842.9	853.5	864.2	874.8	885.5	896.1	906.8	896.8	886.9	876.9	867.0
115°	808.8	819.9	831.1	842.2	853.3	864.4	875.5	865.1	854.7	844.2	833.8
117.5°	772.0	783.3	794.7	806.0	817.4	828.7	840.1	829.4	818.8	808.1	797.5
120°	731.0	742.6	754.2	765.8	777.3	788.9	800.5	789.8	779.2	768.5	757.9
122.5°	683.7	695.5	707.4	719.2	731.0	742.8	754.6	743.9	733.3	722.6	712.0
125°	633.0	644.6	656.2	667.8	679.3	690.9	702.5	692.1	681.7	671.2	660.8
127.5°	578.8	589.7	600.6	611.5	622.3	633.2	644.1	634.4	624.7	614.9	605.2
130°	519.8	530.4	541.1	551.7	562.4	573.0	583.7	574.2	564.7	555.2	545.7
132.5°	466.3	475.8	485.2	494.7	504.2	513.7	523.2	514.6	506.1	497.5	488.9
135°	410.7	419.0	427.4	435.7	444.0	452.4	460.7	453.8	446.8	439.9	432.9
137.5°	353.0	361.6	370.1	378.7	387.3	395.8	404.4	397.7	391.0	384.3	377.6
140°	293.2	302.0	310.8	319.6	328.4	337.2	346.0	339.8	333.5	327.3	321.0
142.5°	244.6	251.8	259.0	266.2	273.3	280.5	287.7	283.5	279.4	275.2	271.0
145°	204.3	211.2	218.2	225.1	232.1	239.0	246.0	242.5	239.0	235.6	232.1
147.5°	167.5	174.0	180.4	186.9	193.4	199.9	206.4	203.6	200.8	198.1	195.3
150°	135.5	141.7	148.0	154.2	160.5	166.7	173.0	170.7	168.4	166.1	163.8
152.5°	105.0	110.8	116.5	122.3	128.1	133.9	139.7	137.8	136.0	134.1	132.3
155°	80.6	85.9	91.3	96.6	101.9	107.3	112.6	111.0	109.4	107.7	106.1
157.5°	57.7	62.3	67.0	71.6	76.2	80.9	85.5	84.3	83.2	82.0	80.8
160°	38.9	42.8	46.8	50.7	54.6	58.6	62.5	61.3	60.2	59.0	57.9
162.5°	19.4	22.4	25.5	28.5	31.5	34.5	37.5	36.8	36.1	35.4	34.7
165°	7.7	9.5	11.4	13.2	15.1	16.9	18.8	18.8	18.8	18.8	18.8
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: P201395

CATALOG NUMBER: 8LBLEDD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1518.2	1519.6	1521.0	1522.4	1523.8	1526.1	1528.4	1530.8	1533.1	1535.4	1537.7
5°	1493.9	1494.6	1495.3	1496.0	1496.7	1499.3	1501.8	1504.4	1506.9	1509.5	1512.0
7.5°	1468.7	1468.9	1469.2	1469.4	1469.6	1472.2	1474.7	1477.3	1479.8	1482.4	1484.9
10°	1441.6	1441.8	1442.1	1442.3	1442.5	1445.5	1448.5	1451.5	1454.5	1457.6	1460.6
12.5°	1420.5	1420.3	1420.1	1419.8	1419.6	1422.4	1425.2	1427.9	1430.7	1433.5	1436.3
15°	1407.8	1407.1	1406.4	1405.7	1405.0	1406.2	1407.3	1408.5	1409.6	1410.8	1411.9
17.5°	1406.2	1404.3	1402.5	1400.6	1398.8	1397.9	1396.9	1396.0	1395.1	1394.1	1393.2
20°	1415.6	1411.9	1408.2	1404.5	1400.8	1396.6	1392.5	1388.3	1384.1	1380.0	1375.8
22.5°	1429.8	1425.2	1420.6	1415.9	1411.3	1403.9	1396.5	1389.1	1381.7	1374.2	1366.8
25°	1447.4	1442.5	1437.6	1432.8	1427.9	1417.7	1407.5	1397.3	1387.1	1377.0	1366.8
27.5°	1464.8	1459.2	1453.6	1448.1	1442.5	1430.7	1418.9	1407.1	1395.3	1383.4	1371.6
30°	1485.2	1478.7	1472.2	1465.7	1459.2	1445.1	1431.0	1416.8	1402.7	1388.6	1374.5
32.5°	1510.7	1503.0	1495.4	1487.7	1480.1	1463.4	1446.7	1430.1	1413.4	1396.7	1380.0
35°	1541.2	1532.2	1523.2	1514.1	1505.1	1485.6	1466.2	1446.7	1427.3	1407.8	1388.4
37.5°	1578.9	1568.3	1557.6	1547.0	1536.3	1513.6	1490.9	1468.2	1445.5	1422.9	1400.2
40°	1628.0	1615.5	1603.0	1590.5	1578.0	1551.4	1524.7	1498.1	1471.5	1444.8	1418.2
42.5°	1687.4	1672.6	1657.7	1642.9	1628.1	1597.1	1566.0	1535.0	1503.9	1472.9	1441.8
45°	1760.6	1744.1	1727.7	1711.2	1694.8	1657.7	1620.7	1583.6	1546.5	1509.5	1472.4
47.5°	1843.7	1824.7	1805.7	1786.7	1767.7	1724.9	1682.0	1639.2	1596.3	1553.5	1510.6
50°	1941.2	1919.2	1897.2	1875.2	1853.2	1803.9	1754.5	1705.2	1655.9	1606.5	1557.2
52.5°	2049.7	2025.6	2001.5	1977.4	1953.3	1896.5	1839.8	1783.0	1726.3	1669.5	1612.8
55°	2167.5	2141.6	2115.7	2089.7	2063.8	1999.2	1934.5	1869.9	1805.3	1740.6	1676.0
57.5°	2287.5	2259.7	2231.9	2204.1	2176.3	2104.7	2033.2	1961.6	1890.0	1818.5	1746.9
60°	2400.8	2372.3	2343.8	2315.3	2286.8	2208.7	2130.7	2052.6	1974.6	1896.5	1818.5
62.5°	2501.0	2473.0	2445.0	2416.9	2388.9	2305.3	2221.7	2138.1	2054.5	1970.8	1887.2
65°	2581.6	2554.3	2527.0	2499.6	2472.3	2384.5	2296.7	2209.0	2121.2	2033.4	1945.6
67.5°	2625.0	2598.8	2572.6	2546.5	2520.3	2430.9	2341.5	2252.1	2162.7	2073.2	1983.8
70°	2626.8	2602.3	2577.7	2553.2	2528.6	2439.4	2350.2	2261.1	2171.9	2082.7	1993.5
72.5°	2579.6	2556.4	2533.2	2510.1	2486.9	2400.7	2314.6	2228.4	2142.3	2056.1	1970.0
75°	2483.5	2461.9	2440.4	2418.8	2397.3	2316.0	2234.7	2153.4	2072.1	1990.8	1909.5
77.5°	2346.6	2326.4	2306.3	2286.1	2266.0	2190.9	2115.9	2040.8	1965.8	1890.7	1815.7
80°	2171.0	2152.0	2133.0	2114.0	2095.0	2027.1	1959.3	1891.4	1823.5	1755.7	1687.8
82.5°	1977.6	1959.5	1941.4	1923.4	1905.3	1845.5	1785.8	1726.0	1666.3	1606.5	1546.8
85°	1782.3	1765.6	1749.0	1732.3	1715.6	1663.0	1610.4	1557.9	1505.3	1452.7	1400.1
87.5°	1602.6	1589.2	1575.8	1562.3	1548.9	1500.9	1453.0	1405.0	1357.1	1309.1	1261.2
90°	1434.2	1421.7	1409.2	1396.7	1384.2	1342.0	1299.9	1257.7	1215.6	1173.4	1131.3
92.5°	1302.1	1290.3	1278.5	1266.7	1254.9	1217.6	1180.3	1143.0	1105.7	1068.5	1031.2
95°	1199.6	1188.9	1178.3	1167.6	1157.0	1122.7	1088.4	1054.1	1019.8	985.6	951.3
97.5°	1118.5	1108.3	1098.1	1087.9	1077.7	1045.5	1013.3	981.1	948.9	916.8	884.6
100°	1054.1	1044.4	1034.7	1024.9	1015.2	984.2	953.1	922.1	891.1	860.0	829.0
102.5°	999.9	990.2	980.5	970.7	961.0	930.9	900.8	870.7	840.6	810.4	780.3
105°	958.5	949.2	939.9	930.7	921.4	891.5	861.6	831.8	801.9	772.0	742.1
107.5°	921.9	912.4	902.9	893.4	883.9	854.5	825.1	795.6	766.2	736.8	707.4
110°	887.3	877.6	867.9	858.1	848.4	819.2	790.0	760.9	731.7	702.5	673.3



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	857.0	847.1	837.1	827.2	817.2	788.0	758.8	729.6	700.4	671.3	642.1
115°	823.4	813.0	802.5	792.1	781.7	752.5	723.3	694.2	665.0	635.8	606.6
117.5°	786.8	776.2	765.5	754.9	744.2	714.8	685.4	656.0	626.6	597.1	567.7
120°	747.2	736.6	725.9	715.3	704.6	675.6	646.7	617.7	588.8	559.8	530.9
122.5°	701.3	690.7	680.0	669.4	658.7	630.9	603.1	575.3	547.5	519.8	492.0
125°	650.4	640.0	629.5	619.1	608.7	582.3	555.9	529.5	503.1	476.7	450.3
127.5°	595.5	585.8	576.0	566.3	556.6	532.0	507.5	482.9	458.4	433.8	409.3
130°	536.2	526.7	517.2	507.7	498.2	476.2	454.2	432.2	410.2	388.2	366.2
132.5°	480.4	471.8	463.2	454.7	446.1	425.0	403.9	382.9	361.8	340.7	319.6
135°	426.0	419.0	412.1	405.1	398.2	379.2	360.2	341.2	322.2	303.2	284.2
137.5°	370.8	364.1	357.4	350.7	344.0	328.0	312.0	296.0	280.0	264.1	248.1
140°	314.8	308.5	302.3	296.0	289.8	277.1	264.3	251.6	238.8	226.1	213.3
142.5°	266.9	262.7	258.5	254.4	250.2	239.1	228.0	216.8	205.7	194.6	183.5
145°	228.6	225.1	221.7	218.2	214.7	205.2	195.7	186.2	176.7	167.2	157.7
147.5°	192.5	189.7	187.0	184.2	181.4	173.3	165.2	157.1	149.0	140.8	132.7
150°	161.4	159.1	156.8	154.5	152.2	145.0	137.8	130.7	123.5	116.3	109.1
152.5°	130.4	128.6	126.7	124.9	123.0	117.2	111.4	105.6	99.8	94.1	88.3
155°	104.5	102.9	101.2	99.6	98.0	93.1	88.3	83.4	78.5	73.7	68.8
157.5°	79.7	78.5	77.3	76.2	75.0	70.6	66.2	61.8	57.4	53.0	48.6
160°	56.7	55.6	54.4	53.3	52.1	48.9	45.6	42.4	39.1	35.9	32.6
162.5°	34.1	33.4	32.7	32.0	31.3	29.7	28.1	26.4	24.8	23.2	21.6
165°	18.8	18.8	18.8	18.8	18.8	17.9	16.9	16.0	15.1	14.1	13.2
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: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1540.1	1542.4	1544.7	1544.9	1545.2	1545.4	1545.6	1545.9	1546.1	1546.3	1546.6
5°	1514.6	1517.1	1519.7	1520.6	1521.5	1522.5	1523.4	1524.3	1525.2	1526.2	1527.1
7.5°	1487.5	1490.0	1492.6	1494.0	1495.4	1496.8	1498.2	1499.5	1500.9	1502.3	1503.7
10°	1463.6	1466.6	1469.6	1470.3	1471.0	1471.7	1472.4	1473.1	1473.8	1474.5	1475.2
12.5°	1439.0	1441.8	1444.6	1444.8	1445.1	1445.3	1445.5	1445.8	1446.0	1446.2	1446.5
15°	1413.1	1414.2	1415.4	1415.6	1415.9	1416.1	1416.3	1416.6	1416.8	1417.0	1417.3
17.5°	1392.3	1391.3	1390.4	1389.5	1388.6	1387.6	1386.7	1385.8	1384.9	1383.9	1383.0
20°	1371.6	1367.5	1363.3	1361.2	1359.1	1357.1	1355.0	1352.9	1350.8	1348.8	1346.7
22.5°	1359.4	1352.0	1344.6	1339.7	1334.9	1330.0	1325.1	1320.3	1315.4	1310.5	1305.7
25°	1356.6	1346.4	1336.2	1327.6	1319.1	1310.5	1301.9	1293.4	1284.8	1276.2	1267.7
27.5°	1359.8	1348.0	1336.2	1322.5	1308.9	1295.2	1281.5	1267.9	1254.2	1240.5	1226.9
30°	1360.3	1346.2	1332.1	1314.0	1296.0	1277.9	1259.8	1241.8	1223.7	1205.6	1187.6
32.5°	1363.4	1346.7	1330.0	1307.5	1285.1	1262.6	1240.1	1217.7	1195.2	1172.7	1150.3
35°	1368.9	1349.5	1330.0	1302.7	1275.3	1248.0	1220.7	1193.3	1166.0	1138.7	1111.3
37.5°	1377.5	1354.8	1332.1	1300.4	1268.6	1236.9	1205.2	1173.4	1141.7	1110.0	1078.2
40°	1391.6	1364.9	1338.3	1302.6	1267.0	1231.3	1195.6	1160.0	1124.3	1088.6	1053.0
42.5°	1410.8	1379.7	1348.7	1308.6	1268.6	1228.5	1188.4	1148.4	1108.3	1068.2	1028.2
45°	1435.3	1398.3	1361.2	1316.7	1272.3	1227.8	1183.3	1138.9	1094.4	1049.9	1005.5
47.5°	1467.8	1424.9	1382.1	1332.8	1283.4	1234.1	1184.8	1135.4	1086.1	1036.8	987.4
50°	1507.9	1458.5	1409.2	1354.1	1299.0	1243.8	1188.7	1133.6	1078.5	1023.3	968.2
52.5°	1556.0	1499.3	1442.5	1381.1	1319.7	1258.4	1197.0	1135.6	1074.2	1012.9	951.5
55°	1611.4	1546.7	1482.1	1414.2	1346.4	1278.5	1210.7	1142.8	1075.0	1007.1	939.3
57.5°	1675.3	1603.8	1532.2	1456.5	1380.7	1305.0	1229.2	1153.5	1077.7	1002.0	926.2
60°	1740.4	1662.4	1584.3	1500.7	1417.1	1333.5	1249.9	1166.2	1082.6	999.0	915.4
62.5°	1803.6	1720.0	1636.4	1545.1	1453.9	1362.6	1271.4	1180.1	1088.9	997.6	906.4
65°	1857.9	1770.1	1682.3	1583.9	1485.4	1387.0	1288.5	1190.1	1091.6	993.2	894.7
67.5°	1894.4	1805.0	1715.6	1610.9	1506.2	1401.5	1296.8	1192.2	1087.5	982.8	878.1
70°	1904.4	1815.2	1726.0	1617.1	1508.3	1399.4	1290.6	1181.7	1072.9	964.0	855.2
72.5°	1883.8	1797.7	1711.5	1600.8	1490.1	1379.3	1268.6	1157.9	1047.2	936.4	825.7
75°	1828.2	1746.9	1665.6	1556.0	1446.5	1336.9	1227.4	1117.8	1008.3	898.7	789.2
77.5°	1740.6	1665.6	1590.5	1484.9	1379.3	1273.7	1168.1	1062.4	956.8	851.2	745.6
80°	1619.9	1552.1	1484.2	1385.5	1286.9	1188.2	1089.5	990.9	892.2	793.5	694.9
82.5°	1487.0	1427.3	1367.5	1276.7	1185.9	1095.1	1004.3	913.5	822.7	731.9	641.1
85°	1347.6	1295.0	1242.4	1159.9	1077.5	995.0	912.6	830.1	747.7	665.2	582.8
87.5°	1213.2	1165.3	1117.3	1043.6	970.0	896.3	822.7	749.0	675.4	601.7	528.1
90°	1089.1	1047.0	1004.8	938.8	872.8	806.8	740.8	674.7	608.7	542.7	476.7
92.5°	993.9	956.6	919.3	859.8	800.3	740.7	681.2	621.7	562.2	502.6	443.1
95°	917.0	882.7	848.4	793.5	738.6	683.7	628.8	574.0	519.1	464.2	409.3
97.5°	852.4	820.2	788.0	737.0	686.1	635.1	584.2	533.2	482.3	431.3	380.4
100°	798.0	766.9	735.9	688.0	640.0	592.1	544.1	496.2	448.2	400.3	352.3
102.5°	750.2	720.1	690.0	644.4	598.7	553.1	507.5	461.8	416.2	370.6	324.9
105°	712.3	682.4	652.5	608.5	564.5	520.5	476.5	432.4	388.4	344.4	300.4
107.5°	677.9	648.5	619.1	576.5	533.9	491.3	448.7	406.0	363.4	320.8	278.2
110°	644.2	615.0	585.8	544.8	503.8	462.8	421.8	380.8	339.8	298.8	257.8



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	612.9	583.7	554.5	514.7	474.8	435.0	395.2	355.3	315.5	275.7	235.8
115°	577.5	548.3	519.1	481.1	443.1	405.1	367.1	329.2	291.2	253.2	215.2
117.5°	538.3	508.9	479.5	444.1	408.6	373.2	337.7	302.3	266.8	231.4	195.9
120°	501.9	473.0	444.0	410.6	377.3	343.9	310.6	277.2	243.9	210.5	177.2
122.5°	464.2	436.4	408.6	377.8	347.0	316.2	285.4	254.5	223.7	192.9	162.1
125°	423.9	397.5	371.1	342.8	314.6	286.3	258.0	229.8	201.5	173.2	145.0
127.5°	384.7	360.2	335.6	309.9	284.2	258.5	232.8	207.0	181.3	155.6	129.9
130°	344.2	322.2	300.2	277.3	254.3	231.4	208.5	185.5	162.6	139.7	116.7
132.5°	298.6	277.5	256.4	236.9	217.5	198.0	178.6	159.1	139.7	120.2	100.8
135°	265.2	246.2	227.2	209.8	192.5	175.1	157.7	140.4	123.0	105.6	88.3
137.5°	232.1	216.1	200.1	184.4	168.6	152.9	137.1	121.4	105.6	89.9	74.1
140°	200.6	187.8	175.1	161.0	146.8	132.7	118.6	104.4	90.3	76.2	62.0
142.5°	172.3	161.2	150.1	137.6	125.1	112.6	100.1	87.5	75.0	62.5	50.0
145°	148.2	138.7	129.2	118.1	107.0	95.9	84.8	73.6	62.5	51.4	40.3
147.5°	124.6	116.5	108.4	98.9	89.4	79.9	70.4	60.9	51.4	41.9	32.4
150°	102.0	94.8	87.6	80.0	72.3	64.7	57.0	49.4	41.7	34.1	26.4
152.5°	82.5	76.7	70.9	64.9	58.9	52.8	46.8	40.8	34.8	28.7	22.7
155°	63.9	59.1	54.2	49.6	44.9	40.3	35.7	31.0	26.4	21.8	17.1
157.5°	44.2	39.8	35.4	32.4	29.4	26.4	23.4	20.3	17.3	14.3	11.3
160°	29.4	26.1	22.9	21.1	19.2	17.4	15.5	13.7	11.8	10.0	8.1
162.5°	19.9	18.3	16.7	15.3	13.9	12.5	11.1	9.8	8.4	7.0	5.6
165°	12.3	11.3	10.4	9.7	9.0	8.3	7.6	7.0	6.3	5.6	4.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1546.8	1551.2	1555.6	1560.0	1564.4	1568.8	1573.2	1577.6	1582.0	1586.4	1585.9
5°	1528.0	1533.6	1539.1	1544.7	1550.2	1555.8	1561.3	1566.9	1572.4	1578.0	1579.2
7.5°	1505.1	1511.4	1517.6	1523.9	1530.1	1536.4	1542.6	1548.9	1555.1	1561.4	1564.4
10°	1475.9	1483.3	1490.7	1498.1	1505.5	1513.0	1520.4	1527.8	1535.2	1542.6	1547.0
12.5°	1446.7	1454.6	1462.5	1470.3	1478.2	1486.1	1494.0	1501.8	1509.7	1517.6	1523.9
15°	1417.5	1425.6	1433.7	1441.8	1449.9	1458.1	1466.2	1474.3	1482.4	1490.5	1498.6
17.5°	1382.1	1390.4	1398.8	1407.1	1415.4	1423.8	1432.1	1440.4	1448.8	1457.1	1467.1
20°	1344.6	1352.9	1361.3	1369.6	1377.9	1386.3	1394.6	1402.9	1411.3	1419.6	1431.2
22.5°	1300.8	1308.7	1316.6	1324.4	1332.3	1340.2	1348.1	1355.9	1363.8	1371.7	1386.1
25°	1259.1	1266.7	1274.4	1282.0	1289.7	1297.3	1305.0	1312.6	1320.3	1327.9	1343.9
27.5°	1213.2	1220.6	1228.0	1235.4	1242.8	1250.3	1257.7	1265.1	1272.5	1279.9	1298.0
30°	1169.5	1175.7	1182.0	1188.2	1194.5	1200.7	1207.0	1213.2	1219.5	1225.7	1246.1
32.5°	1127.8	1132.2	1136.6	1141.0	1145.4	1149.8	1154.2	1158.6	1163.0	1167.4	1190.6
35°	1084.0	1086.5	1089.1	1091.6	1094.2	1096.7	1099.3	1101.8	1104.4	1106.9	1133.1
37.5°	1046.5	1046.5	1046.5	1046.5	1046.5	1046.5	1046.5	1046.5	1046.5	1046.5	1076.1
40°	1017.3	1013.6	1009.9	1006.2	1002.5	998.7	995.0	991.3	987.6	983.9	1017.3
42.5°	988.1	980.2	972.3	964.5	956.6	948.7	940.8	933.0	925.1	917.2	955.0
45°	961.0	949.2	937.4	925.6	913.8	901.9	890.1	878.3	866.5	854.7	896.6
47.5°	938.1	921.7	905.2	888.8	872.3	855.9	839.4	823.0	806.5	790.1	836.2
50°	913.1	892.5	871.9	851.2	830.6	810.0	789.4	768.7	748.1	727.5	778.0
52.5°	890.1	865.3	840.5	815.8	791.0	766.2	741.4	716.7	691.9	667.1	721.8
55°	871.4	842.2	813.0	783.8	754.6	725.5	696.3	667.1	637.9	608.7	667.5
57.5°	850.5	817.1	783.8	750.4	717.1	683.7	650.4	617.0	583.7	550.3	613.5
60°	831.8	793.6	755.4	717.1	678.9	640.7	602.5	564.2	526.0	487.8	556.1
62.5°	815.1	772.7	730.3	687.9	645.5	603.2	560.8	518.4	476.0	433.6	506.3
65°	796.3	750.2	704.1	658.0	611.9	565.9	519.8	473.7	427.6	381.5	458.2
67.5°	773.4	724.1	674.7	625.4	576.1	526.7	477.4	428.1	378.7	329.4	409.5
70°	746.3	694.6	643.0	591.3	539.7	488.0	436.4	384.7	333.1	281.4	364.1
72.5°	715.0	661.5	608.0	554.5	501.0	447.5	394.0	340.5	287.0	233.5	318.0
75°	679.6	625.2	570.7	516.3	461.9	407.4	353.0	298.6	244.1	189.7	275.2
77.5°	640.0	585.6	531.1	476.7	422.3	367.8	313.4	259.0	204.5	150.1	235.1
80°	596.2	542.2	488.3	434.3	380.3	326.4	272.4	218.4	164.5	110.5	194.1
82.5°	550.3	497.7	445.1	392.6	340.0	287.4	234.8	182.3	129.7	77.1	158.2
85°	500.3	449.8	399.3	348.8	298.3	247.9	197.4	146.9	96.4	45.9	124.0
87.5°	454.4	406.0	357.6	309.2	260.8	212.4	164.0	115.6	67.2	18.8	92.9
90°	410.7	365.1	319.4	273.8	228.2	182.5	136.9	91.3	45.6	0.0	69.5
92.5°	383.6	341.0	298.4	255.7	213.1	170.5	127.9	85.2	42.6	0.0	64.4
95°	354.4	315.0	275.6	236.3	196.9	157.5	118.1	78.8	39.4	0.0	59.3
97.5°	329.4	292.8	256.2	219.6	183.0	146.4	109.8	73.2	36.6	0.0	54.0
100°	304.4	270.6	236.8	202.9	169.1	135.3	101.5	67.6	33.8	0.0	49.3
102.5°	279.3	248.3	217.2	186.2	155.2	124.1	93.1	62.1	31.0	0.0	44.9
105°	256.4	227.9	199.4	170.9	142.4	114.0	85.5	57.0	28.5	0.0	41.0
107.5°	235.6	209.4	183.2	157.1	130.9	104.7	78.5	52.4	26.2	0.0	37.3
110°	216.8	192.7	168.6	144.5	120.4	96.4	72.3	48.2	24.1	0.0	33.6



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	196.0	174.2	152.4	130.7	108.9	87.1	65.3	43.6	21.8	0.0	30.6
115°	177.2	157.7	138.3	118.8	99.4	79.9	60.5	41.0	21.6	2.1	29.7
117.5°	160.5	142.9	125.3	107.7	90.1	72.5	54.9	37.3	19.7	2.1	26.9
120°	143.8	128.1	112.3	96.6	80.8	65.1	49.3	33.6	17.8	2.1	24.6
122.5°	131.3	116.9	102.6	88.2	73.9	59.5	45.2	30.8	16.5	2.1	22.0
125°	116.7	104.0	91.2	78.5	65.8	53.0	40.3	27.6	14.8	2.1	19.5
127.5°	104.2	92.9	81.5	70.2	58.8	47.5	36.1	24.8	13.4	2.1	16.7
130°	93.8	83.6	73.4	63.2	53.0	42.9	32.7	22.5	12.3	2.1	13.9
132.5°	81.3	72.5	63.7	54.9	46.1	37.3	28.5	19.7	10.9	2.1	11.6
135°	70.9	63.3	55.6	48.0	40.3	32.7	25.0	17.4	9.7	2.1	9.3
137.5°	58.4	52.1	45.9	39.6	33.4	27.1	20.9	14.6	8.4	2.1	7.2
140°	47.9	42.8	37.7	32.6	27.5	22.5	17.4	12.3	7.2	2.1	5.6
142.5°	37.5	33.6	29.6	25.7	21.8	17.8	13.9	10.0	6.0	2.1	4.4
145°	29.2	26.2	23.2	20.2	17.2	14.1	11.1	8.1	5.1	2.1	3.5
147.5°	22.9	20.6	18.3	16.0	13.7	11.3	9.0	6.7	4.4	2.1	3.0
150°	18.8	16.9	15.1	13.2	11.4	9.5	7.7	5.8	4.0	2.1	2.8
152.5°	16.7	15.1	13.5	11.8	10.2	8.6	7.0	5.3	3.7	2.1	2.6
155°	12.5	11.3	10.2	9.0	7.9	6.7	5.6	4.4	3.3	2.1	2.3
157.5°	8.3	7.6	6.9	6.2	5.5	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	2.1
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: P201395

CATALOG NUMBER: 8LBLEDD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1585.5	1585.0	1584.5	1584.1	1583.6	1583.1	1582.7	1582.2	1583.4	1584.5	1585.7
5°	1580.3	1581.5	1582.7	1583.8	1585.0	1586.2	1587.3	1588.5	1591.0	1593.6	1596.1
7.5°	1567.4	1570.4	1573.4	1576.5	1579.5	1582.5	1585.5	1588.5	1592.4	1596.4	1600.3
10°	1551.4	1555.8	1560.2	1564.6	1569.0	1573.4	1577.8	1582.2	1588.0	1593.8	1599.6
12.5°	1530.1	1536.4	1542.6	1548.9	1555.1	1561.4	1567.6	1573.9	1581.5	1589.2	1596.8
15°	1506.7	1514.8	1522.9	1531.0	1539.1	1547.2	1555.3	1563.4	1572.9	1582.4	1591.9
17.5°	1477.0	1487.0	1497.0	1506.9	1516.9	1526.9	1536.8	1546.8	1558.8	1570.9	1582.9
20°	1442.8	1454.3	1465.9	1477.5	1489.1	1500.6	1512.2	1523.8	1538.6	1553.5	1568.3
22.5°	1400.4	1414.8	1429.1	1443.5	1457.8	1472.2	1486.5	1500.9	1519.7	1538.4	1557.2
25°	1359.9	1375.8	1391.8	1407.8	1423.8	1439.7	1455.7	1471.7	1495.6	1519.4	1543.3
27.5°	1316.0	1334.1	1352.2	1370.2	1388.3	1406.4	1424.4	1442.5	1471.5	1500.4	1529.4
30°	1266.5	1286.9	1307.3	1327.6	1348.0	1368.4	1388.8	1409.2	1443.5	1477.8	1512.0
32.5°	1213.7	1236.9	1260.0	1283.2	1306.3	1329.5	1352.6	1375.8	1415.6	1455.5	1495.3
35°	1159.3	1185.4	1211.6	1237.8	1264.0	1290.1	1316.3	1342.5	1387.4	1432.4	1477.3
37.5°	1105.8	1135.4	1165.1	1194.7	1224.4	1254.0	1283.7	1313.3	1363.6	1413.8	1464.1
40°	1050.6	1084.0	1117.3	1150.7	1184.0	1217.4	1250.7	1284.1	1339.9	1395.7	1451.6
42.5°	992.7	1030.5	1068.2	1106.0	1143.7	1181.5	1219.2	1257.0	1318.4	1379.8	1441.1
45°	938.5	980.5	1022.4	1064.3	1106.2	1148.2	1190.1	1232.0	1299.6	1367.3	1434.9
47.5°	882.3	928.4	974.5	1020.5	1066.6	1112.7	1158.8	1204.9	1279.7	1354.5	1429.3
50°	828.5	879.0	929.5	980.0	1030.5	1081.0	1131.5	1182.0	1264.2	1346.4	1428.7
52.5°	776.4	831.1	885.7	940.4	995.0	1049.7	1104.3	1159.0	1249.6	1340.1	1430.7
55°	726.4	785.2	844.0	902.9	961.7	1020.5	1079.4	1138.2	1238.0	1337.9	1437.7
57.5°	676.8	740.0	803.2	866.5	929.7	992.9	1056.2	1119.4	1229.0	1338.5	1448.1
60°	624.5	692.8	761.1	829.5	897.8	966.1	1034.5	1102.8	1223.0	1343.2	1463.4
62.5°	579.1	651.8	724.5	797.3	870.0	942.7	1015.5	1088.2	1218.6	1349.0	1479.4
65°	534.8	611.5	688.2	764.8	841.5	918.2	994.8	1071.5	1211.6	1351.8	1491.9
67.5°	489.7	569.8	649.9	730.1	810.2	890.3	970.5	1050.6	1200.0	1349.4	1498.8
70°	446.8	529.5	612.2	694.8	777.5	860.2	942.9	1025.6	1181.0	1336.4	1491.9
72.5°	402.6	487.1	571.7	656.2	740.8	825.3	909.9	994.4	1152.6	1310.8	1469.0
75°	360.6	446.1	531.6	617.0	702.5	788.0	873.4	958.9	1115.7	1272.5	1429.3
77.5°	320.1	405.1	490.1	575.1	660.1	745.1	830.1	915.1	1067.0	1219.0	1370.9
80°	277.7	361.3	444.9	528.6	612.2	695.8	779.4	863.0	1006.8	1150.7	1294.5
82.5°	239.2	320.3	401.4	482.4	563.5	644.6	725.6	806.7	940.6	1074.5	1208.3
85°	202.0	280.1	358.1	436.2	514.2	592.3	670.3	748.4	871.2	993.9	1116.7
87.5°	167.0	241.1	315.2	389.4	463.5	537.6	611.7	685.8	797.0	908.2	1019.3
90°	139.0	208.5	278.0	347.4	416.9	486.4	555.9	625.4	726.2	826.9	927.7
92.5°	128.8	193.2	257.6	321.9	386.3	450.7	515.1	579.5	671.0	762.5	854.0
95°	118.6	177.9	237.2	296.5	355.8	415.1	474.4	533.7	618.0	702.3	786.6
97.5°	107.9	161.9	215.9	269.8	323.8	377.8	431.7	485.7	564.5	643.2	722.0
100°	98.7	148.0	197.3	246.7	296.0	345.3	394.7	444.0	518.1	592.2	666.4
102.5°	89.9	134.8	179.7	224.7	269.6	314.5	359.5	404.4	474.6	544.8	614.9
105°	82.0	123.0	164.0	205.0	246.0	287.0	328.0	369.0	435.7	502.4	569.1
107.5°	74.6	111.9	149.2	186.4	223.7	261.0	298.3	335.6	400.2	464.8	529.5
110°	67.2	100.8	134.4	167.9	201.5	235.1	268.7	302.3	364.1	426.0	487.8



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	61.2	91.7	122.3	152.9	183.5	214.0	244.6	275.2	333.8	392.4	451.0
115°	57.2	84.8	112.4	139.9	167.5	195.1	222.6	250.2	306.0	361.8	417.6
117.5°	51.7	76.4	101.2	126.0	150.8	175.5	200.3	225.1	278.4	331.7	384.9
120°	47.0	69.5	92.0	114.4	136.9	159.4	181.8	204.3	253.9	303.4	353.0
122.5°	41.9	61.9	81.8	101.7	121.6	141.6	161.5	181.4	227.0	272.6	318.3
125°	36.8	54.2	71.6	88.9	106.3	123.7	141.0	158.4	200.8	243.2	285.6
127.5°	31.3	45.9	60.5	75.0	89.6	104.2	118.8	133.4	172.5	211.7	250.8
130°	25.7	37.5	49.3	61.2	73.0	84.8	96.6	108.4	143.6	178.8	214.0
132.5°	21.1	30.6	40.1	49.6	59.1	68.6	78.1	87.6	118.6	149.7	180.7
135°	16.5	23.6	30.8	38.0	45.2	52.3	59.5	66.7	94.0	121.4	148.7
137.5°	12.3	17.4	22.5	27.5	32.6	37.7	42.8	47.9	71.8	95.6	119.5
140°	9.1	12.5	16.0	19.5	23.0	26.4	29.9	33.4	53.8	74.2	94.5
142.5°	6.7	9.0	11.3	13.7	16.0	18.3	20.6	22.9	40.0	57.2	74.3
145°	4.9	6.3	7.7	9.0	10.4	11.8	13.2	14.6	28.5	42.4	56.3
147.5°	3.9	4.9	5.8	6.7	7.6	8.6	9.5	10.4	21.3	32.2	43.1
150°	3.5	4.2	4.9	5.5	6.2	6.9	7.6	8.3	16.2	24.1	31.9
152.5°	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	11.9	17.4	23.0
155°	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	7.4	10.7	13.9
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.0	5.8	7.7
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°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1586.8	1588.0	1589.1	1590.3	1591.4	1592.6	1593.1	1593.5	1594.0	1594.5	1594.9
5°	1598.7	1601.2	1603.8	1606.3	1608.9	1611.4	1612.8	1614.2	1615.6	1617.0	1618.3
7.5°	1604.2	1608.2	1612.1	1616.0	1620.0	1623.9	1626.7	1629.5	1632.2	1635.0	1637.8
10°	1605.4	1611.1	1616.9	1622.7	1628.5	1634.3	1638.7	1643.1	1647.5	1651.9	1656.3
12.5°	1604.5	1612.1	1619.8	1627.4	1635.1	1642.7	1648.7	1654.7	1660.8	1666.8	1672.8
15°	1601.4	1610.9	1620.4	1629.9	1639.4	1648.9	1656.8	1664.7	1672.5	1680.4	1688.3
17.5°	1595.0	1607.0	1619.1	1631.1	1643.2	1655.2	1665.9	1676.5	1687.2	1697.8	1708.5
20°	1583.1	1598.0	1612.8	1627.6	1642.5	1657.3	1672.4	1687.4	1702.5	1717.5	1732.6
22.5°	1576.0	1594.7	1613.5	1632.3	1651.0	1669.8	1687.9	1705.9	1724.0	1742.1	1760.1
25°	1567.1	1591.0	1614.8	1638.7	1662.5	1686.4	1707.0	1727.6	1748.3	1768.9	1789.5
27.5°	1558.3	1587.3	1616.2	1645.2	1674.1	1703.1	1726.3	1749.4	1772.6	1795.8	1818.9
30°	1546.3	1580.6	1614.9	1649.1	1683.4	1717.7	1743.9	1770.1	1796.2	1822.4	1848.6
32.5°	1535.2	1575.0	1614.9	1654.7	1694.6	1734.4	1763.8	1793.2	1822.6	1852.0	1881.5
35°	1522.2	1567.2	1612.1	1657.0	1702.0	1746.9	1780.9	1815.0	1849.0	1883.1	1917.1
37.5°	1514.4	1564.6	1614.9	1665.2	1715.4	1765.7	1804.4	1843.1	1881.7	1920.4	1959.1
40°	1507.4	1563.2	1619.0	1674.9	1730.7	1786.5	1831.0	1875.4	1919.9	1964.4	2008.8
42.5°	1502.5	1563.9	1625.3	1686.6	1748.0	1809.4	1861.1	1912.7	1964.4	2016.0	2067.7
45°	1502.5	1570.2	1637.8	1705.4	1773.1	1840.7	1900.0	1959.3	2018.6	2077.9	2137.2
47.5°	1504.1	1579.0	1653.8	1728.6	1803.4	1878.2	1945.8	2013.5	2081.1	2148.7	2216.4
50°	1510.9	1593.1	1675.3	1757.6	1839.8	1922.0	2000.5	2079.0	2157.6	2236.1	2314.6
52.5°	1521.3	1611.8	1702.4	1793.0	1883.5	1974.1	2061.7	2149.2	2236.8	2324.3	2411.9
55°	1537.5	1637.4	1737.2	1837.0	1936.9	2036.7	2134.7	2232.6	2330.6	2428.6	2526.5
57.5°	1557.6	1667.2	1776.7	1886.3	1995.8	2105.4	2213.1	2320.8	2428.5	2536.2	2644.0
60°	1583.6	1703.9	1824.1	1944.3	2064.5	2184.7	2302.1	2419.5	2537.0	2654.4	2771.8
62.5°	1609.8	1740.2	1870.6	2001.0	2131.4	2261.8	2385.0	2508.2	2631.5	2754.7	2877.9
65°	1632.0	1772.2	1912.3	2052.4	2192.6	2332.7	2461.2	2589.8	2718.3	2846.9	2975.4
67.5°	1648.2	1797.6	1947.0	2096.4	2245.8	2395.2	2525.4	2655.5	2785.7	2915.9	3046.0
70°	1647.3	1802.7	1958.1	2113.6	2269.0	2424.4	2554.3	2684.3	2814.2	2944.1	3074.1
72.5°	1627.2	1785.3	1943.5	2101.7	2259.9	2418.1	2545.0	2672.0	2798.9	2925.8	3052.8
75°	1586.1	1743.0	1899.8	2056.6	2213.4	2370.2	2492.0	2613.9	2735.7	2857.5	2979.4
77.5°	1522.9	1674.8	1826.8	1978.7	2130.7	2282.6	2397.0	2511.4	2625.9	2740.3	2854.7
80°	1438.4	1582.2	1726.1	1869.9	2013.8	2157.6	2263.0	2368.4	2473.8	2579.2	2684.5
82.5°	1342.2	1476.1	1610.0	1743.8	1877.7	2011.6	2107.3	2202.9	2298.6	2394.3	2489.9
85°	1239.4	1362.2	1484.9	1607.7	1730.4	1853.2	1939.8	2026.4	2113.1	2199.7	2286.3
87.5°	1130.5	1241.7	1352.9	1464.0	1575.2	1686.4	1763.8	1841.1	1918.5	1995.9	2073.2
90°	1028.4	1129.2	1229.9	1330.7	1431.4	1532.2	1602.1	1672.1	1742.0	1812.0	1881.9
92.5°	945.5	1036.9	1128.4	1219.9	1311.4	1402.9	1467.5	1532.1	1596.8	1661.4	1726.0
95°	870.9	955.3	1039.6	1123.9	1208.2	1292.5	1353.4	1414.3	1475.2	1536.1	1597.1
97.5°	800.7	879.5	958.2	1037.0	1115.7	1194.5	1251.7	1308.9	1366.1	1423.3	1480.6
100°	740.5	814.6	888.7	962.9	1037.0	1111.1	1166.5	1221.8	1277.2	1332.5	1387.9
102.5°	685.1	755.3	825.5	895.6	965.8	1036.0	1090.2	1144.4	1198.6	1252.8	1307.0
105°	635.8	702.5	769.2	835.9	902.6	969.3	1022.6	1075.9	1129.1	1182.4	1235.7
107.5°	594.1	658.7	723.3	788.0	852.6	917.2	968.9	1020.5	1072.2	1123.8	1175.5
110°	549.7	611.5	673.4	735.2	797.1	858.9	909.9	960.8	1011.8	1062.7	1113.7



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	509.6	568.2	626.8	685.4	744.0	802.6	852.4	902.2	952.0	1001.8	1051.6
115°	473.4	529.3	585.1	640.9	696.7	752.5	800.0	847.5	895.0	942.5	989.9
117.5°	438.2	491.5	544.8	598.0	651.3	704.6	750.0	795.4	840.8	886.2	931.6
120°	402.6	452.1	501.7	551.3	600.8	650.4	694.6	738.9	783.1	827.4	871.6
122.5°	363.9	409.5	455.1	500.8	546.4	592.0	635.5	679.1	722.6	766.2	809.7
125°	328.0	370.3	412.7	455.1	497.5	539.9	581.1	622.4	663.6	704.8	746.1
127.5°	290.0	329.1	368.3	407.4	446.6	485.7	523.7	561.7	599.7	637.7	675.6
130°	249.2	284.5	319.7	354.9	390.1	425.3	460.3	495.2	530.2	565.2	600.1
132.5°	211.7	242.8	273.8	304.8	335.9	366.9	400.0	433.1	466.3	499.4	532.5
135°	176.0	203.4	230.7	258.0	285.4	312.7	344.2	375.7	407.2	438.7	470.2
137.5°	143.4	167.2	191.1	215.0	238.8	262.7	291.6	320.6	349.5	378.5	407.4
140°	114.9	135.3	155.7	176.0	196.4	216.8	241.4	265.9	290.5	315.0	339.6
142.5°	91.5	108.6	125.8	142.9	160.1	177.2	198.0	218.9	239.7	260.6	281.4
145°	70.2	84.1	98.0	111.9	125.8	139.7	157.3	174.9	192.5	210.1	227.7
147.5°	54.0	64.8	75.7	86.6	97.5	108.4	123.0	137.6	152.2	166.8	181.3
150°	39.8	47.7	55.6	63.4	71.3	79.2	91.2	103.3	115.3	127.4	139.4
152.5°	28.5	34.1	39.6	45.2	50.7	56.3	65.6	74.8	84.1	93.4	102.6
155°	17.2	20.4	23.7	26.9	30.2	33.4	40.8	48.2	55.6	63.0	70.5
157.5°	9.5	11.4	13.2	15.1	16.9	18.8	23.9	29.0	34.1	39.2	44.2
160°	4.9	5.5	6.2	6.9	7.6	8.3	11.3	14.3	17.3	20.3	23.4
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.5	4.9	6.3	7.7	9.0
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: P201395

CATALOG NUMBER: 8LBLELD4-12-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°	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1595.4	1595.9	1596.3	1596.8	1595.2	1593.6	1591.9	1590.3	1588.7	1587.1	1585.4
5°	1619.7	1621.1	1622.5	1623.9	1623.4	1623.0	1622.5	1622.0	1621.6	1621.1	1620.6
7.5°	1640.6	1643.3	1646.1	1648.9	1649.1	1649.4	1649.6	1649.8	1650.1	1650.3	1650.5
10°	1660.7	1665.1	1669.5	1673.9	1674.4	1674.8	1675.3	1675.8	1676.2	1676.7	1677.2
12.5°	1678.8	1684.9	1690.9	1696.9	1698.1	1699.2	1700.4	1701.5	1702.7	1703.8	1705.0
15°	1696.2	1704.0	1711.9	1719.8	1722.1	1724.4	1726.7	1729.0	1731.4	1733.7	1736.0
17.5°	1719.1	1729.8	1740.4	1751.1	1755.0	1759.0	1762.9	1766.8	1770.8	1774.7	1778.6
20°	1747.6	1762.7	1777.7	1792.8	1797.7	1802.5	1807.4	1812.2	1817.1	1821.9	1826.8
22.5°	1778.2	1796.3	1814.3	1832.4	1838.0	1843.5	1849.1	1854.6	1860.2	1865.7	1871.3
25°	1810.1	1830.8	1851.4	1872.0	1878.5	1885.0	1891.4	1897.9	1904.4	1910.9	1917.3
27.5°	1842.1	1865.3	1888.4	1911.6	1919.7	1927.8	1935.9	1944.0	1952.1	1960.2	1968.3
30°	1874.8	1900.9	1927.1	1953.3	1963.0	1972.7	1982.5	1992.2	2001.9	2011.6	2021.4
32.5°	1910.9	1940.3	1969.7	1999.1	2010.5	2021.8	2033.2	2044.5	2055.9	2067.2	2078.6
35°	1951.2	1985.2	2019.3	2053.3	2067.0	2080.6	2094.3	2108.0	2121.6	2135.3	2149.0
37.5°	1997.8	2036.4	2075.1	2113.8	2130.7	2147.6	2164.5	2181.4	2198.4	2215.3	2232.2
40°	2053.3	2097.8	2142.2	2186.7	2206.9	2227.0	2247.2	2267.3	2287.5	2307.6	2327.8
42.5°	2119.3	2171.0	2222.6	2274.3	2297.5	2320.6	2343.8	2367.0	2390.1	2413.3	2436.5
45°	2196.5	2255.8	2315.1	2374.4	2401.0	2427.7	2454.3	2480.9	2507.6	2534.2	2560.8
47.5°	2284.0	2351.6	2419.3	2486.9	2518.4	2549.9	2581.4	2612.9	2644.4	2675.9	2707.4
50°	2393.1	2471.7	2550.2	2628.7	2663.2	2697.7	2732.2	2766.7	2801.3	2835.8	2870.3
52.5°	2499.4	2587.0	2674.5	2762.1	2801.5	2840.9	2880.2	2919.6	2959.0	2998.4	3037.7
55°	2624.5	2722.5	2820.4	2918.4	2960.8	3003.2	3045.6	3088.0	3130.3	3172.7	3215.1
57.5°	2751.7	2859.4	2967.1	3074.8	3120.0	3165.1	3210.3	3255.5	3300.6	3345.8	3391.0
60°	2889.2	3006.7	3124.1	3241.5	3286.4	3331.4	3376.3	3421.3	3466.2	3511.2	3556.1
62.5°	3001.1	3124.4	3247.6	3370.8	3416.9	3463.0	3509.1	3555.2	3601.2	3647.3	3693.4
65°	3104.0	3232.5	3361.1	3489.6	3533.8	3578.1	3622.3	3666.6	3710.8	3755.1	3799.3
67.5°	3176.2	3306.4	3436.5	3566.7	3609.3	3651.9	3694.6	3737.2	3779.8	3822.4	3865.1
70°	3204.0	3333.9	3463.9	3593.8	3633.6	3673.5	3713.3	3753.2	3793.0	3832.9	3872.7
72.5°	3179.7	3306.6	3433.6	3560.5	3598.7	3636.9	3675.2	3713.4	3751.6	3789.8	3828.1
75°	3101.2	3223.0	3344.9	3466.7	3502.8	3539.0	3575.1	3611.2	3647.4	3683.5	3719.6
77.5°	2969.1	3083.6	3198.0	3312.4	3346.7	3381.0	3415.2	3449.5	3483.8	3518.1	3552.3
80°	2789.9	2895.3	3000.7	3106.1	3139.0	3171.9	3204.8	3237.7	3270.5	3303.4	3336.3
82.5°	2585.6	2681.3	2776.9	2872.6	2903.9	2935.1	2966.4	2997.7	3028.9	3060.2	3091.5
85°	2372.9	2459.6	2546.2	2632.8	2661.3	2689.8	2718.3	2746.8	2775.3	2803.8	2832.3
87.5°	2150.6	2228.0	2305.3	2382.7	2410.5	2438.3	2466.1	2493.9	2521.6	2549.4	2577.2
90°	1951.9	2021.8	2091.8	2161.7	2188.1	2214.5	2240.9	2267.3	2293.8	2320.2	2346.6
92.5°	1790.6	1855.3	1919.9	1984.5	2008.8	2033.1	2057.5	2081.8	2106.1	2130.4	2154.8
95°	1658.0	1718.9	1779.8	1840.7	1862.9	1885.2	1907.4	1929.6	1951.9	1974.1	1996.3
97.5°	1537.8	1595.0	1652.2	1709.4	1731.2	1752.9	1774.7	1796.5	1818.2	1840.0	1861.8
100°	1443.2	1498.6	1553.9	1609.3	1630.4	1651.5	1672.5	1693.6	1714.7	1735.8	1756.8
102.5°	1361.2	1415.4	1469.6	1523.8	1544.4	1565.0	1585.7	1606.3	1626.9	1647.5	1668.2
105°	1289.0	1342.2	1395.5	1448.8	1469.4	1490.0	1510.6	1531.2	1551.9	1572.5	1593.1
107.5°	1227.1	1278.8	1330.4	1382.1	1402.5	1422.9	1443.2	1463.6	1484.0	1504.4	1524.7
110°	1164.6	1215.6	1266.5	1317.5	1337.4	1357.3	1377.2	1397.1	1417.1	1437.0	1456.9



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-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°	1101.4	1151.2	1201.0	1250.8	1270.7	1290.6	1310.5	1330.4	1350.4	1370.3	1390.2
115°	1037.4	1084.9	1132.4	1179.9	1199.6	1219.3	1239.0	1258.7	1278.3	1298.0	1317.7
117.5°	977.0	1022.4	1067.8	1113.2	1131.7	1150.2	1168.8	1187.3	1205.8	1224.3	1242.9
120°	915.9	960.1	1004.4	1048.6	1066.2	1083.8	1101.4	1119.0	1136.6	1154.2	1171.8
122.5°	853.3	896.8	940.4	983.9	1001.0	1018.2	1035.3	1052.5	1069.6	1086.8	1103.9
125°	787.3	828.5	869.8	911.0	928.4	945.7	963.1	980.5	997.8	1015.2	1032.6
127.5°	713.6	751.6	789.6	827.6	844.7	861.9	879.0	896.1	913.3	930.4	947.5
130°	635.1	670.1	705.0	740.0	755.5	771.0	786.6	802.1	817.6	833.1	848.7
132.5°	565.6	598.8	631.9	665.0	678.0	690.9	703.9	716.9	729.8	742.8	755.8
135°	501.7	533.2	564.7	596.2	607.3	618.4	629.6	640.7	651.8	662.9	674.1
137.5°	436.4	465.3	494.3	523.2	534.1	545.0	555.9	566.8	577.6	588.5	599.4
140°	364.1	388.7	413.2	437.8	449.8	461.9	473.9	486.0	498.0	510.1	522.1
142.5°	302.3	323.1	344.0	364.8	376.1	387.5	398.8	410.2	421.5	432.9	444.2
145°	245.3	262.9	280.5	298.1	309.4	320.8	332.1	343.5	354.8	366.2	377.5
147.5°	195.9	210.5	225.1	239.7	250.6	261.5	272.4	283.3	294.1	305.0	315.9
150°	151.5	163.5	175.6	187.6	197.8	208.0	218.2	228.4	238.5	248.7	258.9
152.5°	111.9	121.2	130.4	139.7	149.4	159.1	168.9	178.6	188.3	198.0	207.8
155°	77.9	85.3	92.7	100.1	108.7	117.2	125.8	134.4	142.9	151.5	160.1
157.5°	49.3	54.4	59.5	64.6	71.8	79.0	86.1	93.3	100.5	107.7	114.8
160°	26.4	29.4	32.4	35.4	41.2	47.0	52.8	58.6	64.4	70.2	76.0
162.5°	10.4	11.8	13.2	14.6	18.3	22.0	25.7	29.4	33.1	36.8	40.5
165°	1.4	1.6	1.9	2.1	4.2	6.3	8.3	10.4	12.5	14.6	16.6
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: P201395

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1563.4	1563.4
2.5°	1583.8	1582.2
5°	1620.2	1619.7
7.5°	1650.8	1651.0
10°	1677.6	1678.1
12.5°	1706.1	1707.3
15°	1738.3	1740.6
17.5°	1782.6	1786.5
20°	1831.6	1836.5
22.5°	1876.8	1882.4
25°	1923.8	1930.3
27.5°	1976.4	1984.5
30°	2031.1	2040.8
32.5°	2089.9	2101.3
35°	2162.6	2176.3
37.5°	2249.1	2266.0
40°	2347.9	2368.1
42.5°	2459.6	2482.8
45°	2587.5	2614.1
47.5°	2738.9	2770.4
50°	2904.8	2939.3
52.5°	3077.1	3116.5
55°	3257.5	3299.9
57.5°	3436.1	3481.3
60°	3601.1	3646.0
62.5°	3739.5	3785.6
65°	3843.6	3887.8
67.5°	3907.7	3950.3
70°	3912.6	3952.4
72.5°	3866.3	3904.5
75°	3755.8	3791.9
77.5°	3586.6	3620.9
80°	3369.2	3402.1
82.5°	3122.7	3154.0
85°	2860.8	2889.3
87.5°	2605.0	2632.8
90°	2373.0	2399.4
92.5°	2179.1	2203.4
95°	2018.6	2040.8
97.5°	1883.5	1905.3
100°	1777.9	1799.0
102.5°	1688.8	1709.4
105°	1613.7	1634.3
107.5°	1545.1	1565.5
110°	1476.8	1496.7



TEST NUMBER: P201395

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1410.1	1430.0
115°	1337.4	1357.1
117.5°	1261.4	1279.9
120°	1189.4	1207.0
122.5°	1121.1	1138.2
125°	1049.9	1067.3
127.5°	964.7	981.8
130°	864.2	879.7
132.5°	768.7	781.7
135°	685.2	696.3
137.5°	610.3	621.2
140°	534.2	546.2
142.5°	455.6	466.9
145°	388.9	400.2
147.5°	326.8	337.7
150°	269.1	279.3
152.5°	217.5	227.2
155°	168.6	177.2
157.5°	122.0	129.2
160°	81.8	87.6
162.5°	44.2	47.9
165°	18.7	20.8
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)