

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: P201393

Luminaire Tested: **8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201393  
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: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U  
Description: 8 ft. Low Bay Linear, 8000 lm, Frst Asym lens, 3.5K  
Light Source: (616) 3500K CCT, 80 CRI LEDS  
2UT217098A8350C, 2UT217056A8350B  
Ballast/Driver: OSRAM  
(OT85W01250CC), (OT50W0800CC)

**Summary**

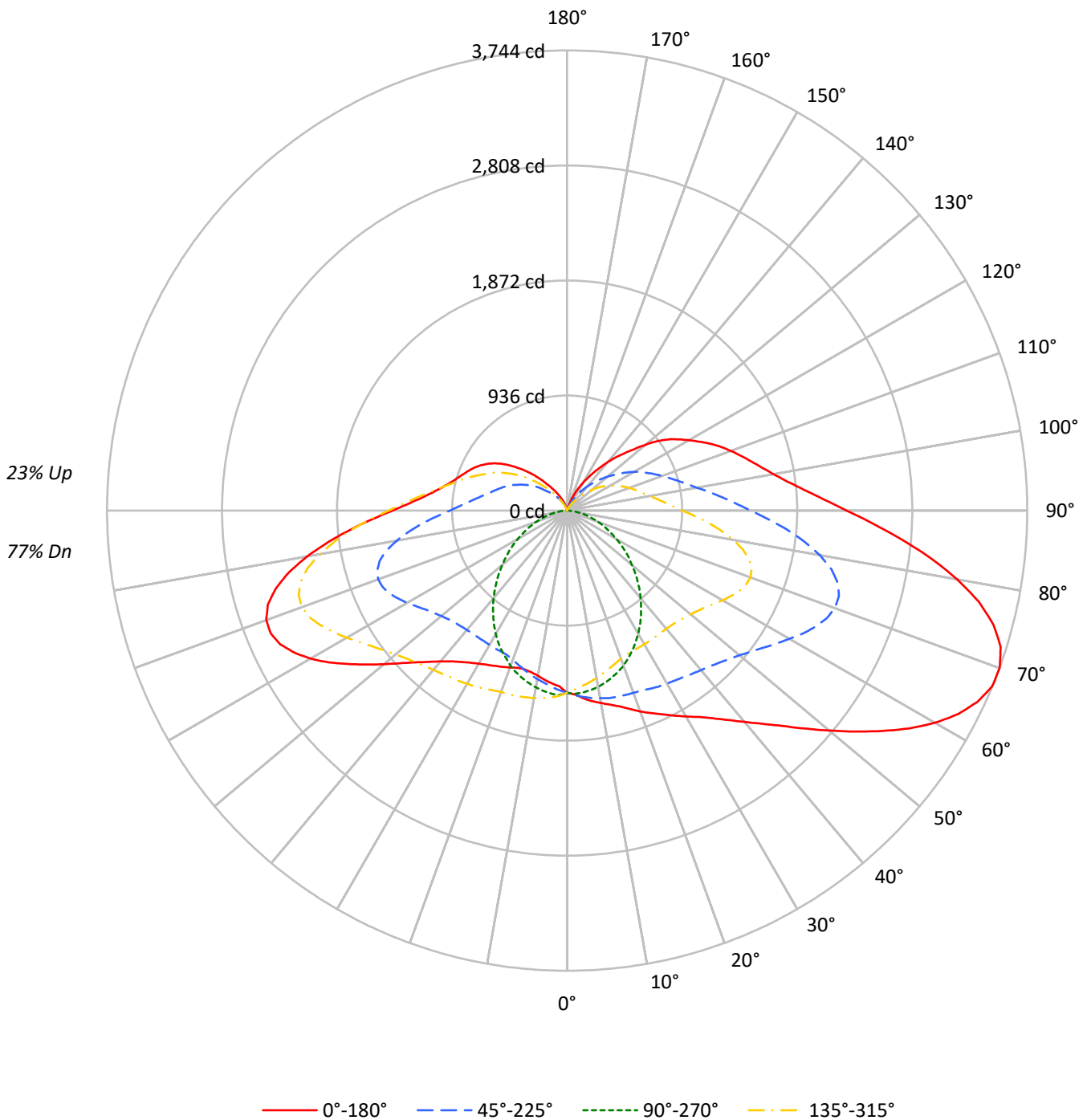
Lumens per Lamp: N/A  
Luminaire Lumens: 12859.6 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.78  
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 96.83  
Input Voltage (V): NR  
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



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CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

### 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	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°	11934	11934	11934	11934
5°	11191	11984	10298	12064
10°	10664	11853	9154	11901
15°	10313	11647	8361	11696
20°	10265	11389	8016	11423
25°	10284	11032	7841	11049
30°	10463	10607	7780	10643
35°	10832	10111	7896	10130
40°	11538	9574	8237	9594
45°	12566	8992	8858	8992
50°	14049	8356	9804	8379
55°	15803	7811	11001	7811
60°	17628	7065	12296	7125
65°	19127	6490	13373	6526
70°	19947	5861	13877	5861
75°	19798	5099	13529	5099
80°	18545	4153	12352	4234
85°	16607	2957	10724	3093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	1.1
10°-20°	410.0	3.2
20°-30°	661.5	5.1
30°-40°	897.7	7.0
40°-50°	1154.5	9.0
50°-60°	1480.3	11.5
60°-70°	1810.2	14.1
70°-80°	1845.1	14.3
80°-90°	1439.7	11.2
90°-100°	1002.9	7.8
100°-110°	747.9	5.8
110°-120°	561.4	4.4
120°-130°	380.8	3.0
130°-140°	209.3	1.6
140°-150°	89.0	0.7
150°-160°	26.1	0.2
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	1212.1	9.4
0°-40°	2109.8	16.4
0°-60°	4744.6	36.9
0°-90°	9839.6	76.5
90°-120°	2312.3	18.0
90°-150°	2991.4	23.3
90°-180°	3020.0	23.5
0°-180°	12859.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1481	1481	1481	1481	1481	
5°	1534	1485	1412	1495	1534	148
15°	1649	1406	1337	1412	1649	472
25°	1829	1256	1394	1258	1829	851
35°	2062	1047	1503	1049	2062	1305
45°	2476	810	1746	810	2476	1935
55°	3126	577	2176	577	3126	2809
65°	3683	359	2575	361	3683	3628
75°	3592	180	2455	180	3592	3755
85°	2737	42	1768	43	2737	2337
90°	2273	0	1418	0	2273	1251
95°	1933	0	1187	0	1933	1535
105°	1548	0	952	0	1548	1644
115°	1286	0	829	2	1286	1276
125°	1011	0	666	2	1011	902
135°	660	0	436	2	660	519
145°	379	0	233	2	379	244
155°	168	0	107	2	168	81
165°	20	0	18	2	20	9
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLEDD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1498.9	1498.7	1498.5	1498.3	1498.1	1497.8	1497.6	1497.4	1497.2	1497.0	1497.7
5°	1534.5	1533.2	1531.9	1530.5	1529.2	1527.9	1526.6	1525.2	1523.9	1522.6	1522.6
7.5°	1564.1	1562.1	1560.1	1558.2	1556.2	1554.2	1552.2	1550.3	1548.3	1546.3	1545.4
10°	1589.8	1587.2	1584.5	1581.9	1579.3	1576.6	1574.0	1571.4	1568.7	1566.1	1564.3
12.5°	1617.4	1614.3	1611.3	1608.2	1605.1	1602.1	1599.0	1595.9	1592.9	1589.8	1586.7
15°	1649.0	1645.5	1642.0	1638.5	1635.0	1631.4	1627.9	1624.4	1620.9	1617.4	1611.9
17.5°	1692.5	1687.7	1682.8	1678.0	1673.2	1668.3	1663.5	1658.7	1653.8	1649.0	1640.7
20°	1739.9	1733.5	1727.2	1720.8	1714.4	1708.1	1701.7	1695.3	1689.0	1682.6	1671.0
22.5°	1783.3	1775.6	1767.9	1760.3	1752.6	1744.9	1737.2	1729.6	1721.9	1714.2	1699.7
25°	1828.7	1820.4	1812.0	1803.7	1795.4	1787.0	1778.7	1770.4	1762.0	1753.7	1736.6
27.5°	1880.1	1870.4	1860.8	1851.1	1841.5	1831.8	1822.2	1812.5	1802.9	1793.2	1773.2
30°	1933.4	1922.6	1911.9	1901.1	1890.4	1879.6	1868.9	1858.1	1847.4	1836.6	1813.1
32.5°	1990.7	1978.2	1965.7	1953.2	1940.7	1928.1	1915.6	1903.1	1890.6	1878.1	1851.3
35°	2061.8	2047.1	2032.4	2017.7	2003.0	1988.2	1973.5	1958.8	1944.1	1929.4	1898.7
37.5°	2146.7	2129.6	2112.5	2095.3	2078.2	2061.1	2044.0	2026.8	2009.7	1992.6	1957.1
40°	2243.5	2223.7	2204.0	2184.2	2164.5	2144.7	2125.0	2105.2	2085.5	2065.7	2024.4
42.5°	2352.1	2329.5	2306.9	2284.3	2261.7	2239.1	2216.5	2193.9	2171.3	2148.7	2100.9
45°	2476.5	2451.0	2425.6	2400.1	2374.7	2349.2	2323.8	2298.3	2272.9	2247.4	2192.1
47.5°	2624.6	2595.4	2566.2	2537.0	2507.8	2478.7	2449.5	2420.3	2391.1	2361.9	2298.1
50°	2784.6	2751.7	2718.8	2685.8	2652.9	2620.0	2587.1	2554.1	2521.2	2488.3	2415.2
52.5°	2952.4	2916.6	2880.9	2845.1	2809.3	2773.6	2737.8	2702.0	2666.3	2630.5	2547.6
55°	3126.2	3087.8	3049.4	3011.0	2972.6	2934.2	2895.8	2857.4	2819.0	2780.6	2687.8
57.5°	3298.0	3257.6	3217.3	3176.9	3136.5	3096.2	3055.8	3015.4	2975.1	2934.7	2832.4
60°	3454.0	3413.2	3372.4	3331.6	3290.8	3249.9	3209.1	3168.3	3127.5	3086.7	2975.7
62.5°	3586.4	3546.0	3505.6	3465.3	3424.9	3384.5	3344.1	3303.8	3263.4	3223.0	3105.4
65°	3683.1	3644.3	3605.4	3566.6	3527.8	3488.9	3450.1	3411.3	3372.4	3333.6	3211.2
67.5°	3742.4	3704.9	3667.4	3629.8	3592.3	3554.8	3517.3	3479.7	3442.2	3404.7	3280.5
70°	3744.4	3709.7	3675.0	3640.4	3605.7	3571.0	3536.3	3501.7	3467.0	3432.3	3308.5
72.5°	3698.9	3665.8	3632.6	3599.5	3566.4	3533.2	3500.1	3467.0	3433.8	3400.7	3280.5
75°	3592.3	3560.9	3529.5	3498.2	3466.8	3435.4	3404.0	3372.7	3341.3	3309.9	3195.4
77.5°	3430.4	3400.6	3370.7	3340.9	3311.0	3281.2	3251.3	3221.5	3191.6	3161.8	3055.2
80°	3223.0	3194.9	3166.8	3138.7	3110.6	3082.6	3054.5	3026.4	2998.3	2970.2	2872.1
82.5°	2988.0	2961.4	2934.9	2908.3	2881.8	2855.2	2828.7	2802.1	2775.6	2749.0	2660.1
85°	2737.2	2712.4	2687.6	2662.8	2638.0	2613.2	2588.4	2563.6	2538.8	2514.0	2434.6
87.5°	2494.3	2470.4	2446.5	2422.5	2398.6	2374.7	2350.8	2326.8	2302.9	2279.0	2207.9
90°	2273.1	2250.7	2228.3	2205.9	2183.5	2161.2	2138.8	2116.4	2094.0	2071.6	2007.1
92.5°	2087.4	2066.6	2045.7	2024.9	2004.0	1983.2	1962.3	1941.5	1920.6	1899.8	1840.8
95°	1933.4	1913.7	1893.9	1874.2	1854.4	1834.7	1814.9	1795.2	1775.4	1755.7	1700.6
97.5°	1805.0	1785.9	1766.8	1747.7	1728.6	1709.6	1690.5	1671.4	1652.3	1633.2	1581.0
100°	1704.3	1685.6	1667.0	1648.3	1629.7	1611.0	1592.4	1573.7	1555.1	1536.4	1484.6
102.5°	1619.4	1600.7	1582.1	1563.4	1544.8	1526.1	1507.5	1488.8	1470.2	1451.5	1401.0
105°	1548.3	1529.6	1511.0	1492.3	1473.7	1455.0	1436.4	1417.7	1399.1	1380.4	1330.8
107.5°	1483.1	1464.7	1446.2	1427.8	1409.4	1390.9	1372.5	1354.1	1335.6	1317.2	1268.3
110°	1418.0	1399.8	1381.6	1363.3	1345.1	1326.9	1308.7	1290.4	1272.2	1254.0	1206.2



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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°	1354.8	1336.4	1317.9	1299.5	1281.1	1262.6	1244.2	1225.8	1207.3	1188.9	1142.6
115°	1285.6	1267.4	1249.2	1231.0	1212.8	1194.5	1176.3	1158.1	1139.9	1121.7	1077.4
117.5°	1212.6	1195.5	1178.4	1161.2	1144.1	1127.0	1109.9	1092.7	1075.6	1058.5	1016.6
120°	1143.5	1127.3	1111.0	1094.8	1078.5	1062.3	1046.0	1029.8	1013.5	997.3	956.5
122.5°	1078.3	1062.5	1046.7	1030.9	1015.1	999.3	983.5	967.7	951.9	936.1	896.2
125°	1011.1	995.5	979.9	964.4	948.8	933.2	917.6	902.1	886.5	870.9	832.3
127.5°	930.2	915.3	900.4	885.4	870.5	855.6	840.7	825.7	810.8	795.9	760.1
130°	833.4	820.2	807.1	793.9	780.7	767.6	754.4	741.2	728.1	714.9	683.3
132.5°	740.6	729.4	718.2	707.0	695.8	684.7	673.5	662.3	651.1	639.9	611.6
135°	659.6	650.2	640.7	631.3	621.9	612.4	603.0	593.6	584.1	574.7	548.8
137.5°	588.5	579.7	570.9	562.2	553.4	544.6	535.8	527.1	518.3	509.5	486.0
140°	517.4	508.8	500.3	491.7	483.2	474.6	466.1	457.5	449.0	440.4	420.0
142.5°	442.4	435.6	428.8	422.0	415.2	408.4	401.6	394.8	388.0	381.2	363.2
145°	379.2	373.3	367.4	361.4	355.5	349.6	343.7	337.7	331.8	325.9	310.1
147.5°	319.9	314.6	309.4	304.1	298.8	293.6	288.3	283.0	277.8	272.5	258.9
150°	264.6	260.2	255.8	251.4	247.0	242.7	238.3	233.9	229.5	225.1	213.3
152.5°	215.3	211.3	207.4	203.4	199.5	195.5	191.6	187.6	183.7	179.7	169.6
155°	167.9	164.6	161.3	158.0	154.7	151.4	148.1	144.8	141.5	138.2	129.4
157.5°	122.4	119.8	117.1	114.5	111.9	109.2	106.6	104.0	101.3	98.7	91.7
160°	82.9	80.5	78.1	75.7	73.3	70.8	68.4	66.0	63.6	61.2	56.6
162.5°	45.4	44.1	42.8	41.5	40.2	38.8	37.5	36.2	34.9	33.6	30.7
165°	19.7	19.0	18.4	17.7	17.1	16.4	15.8	15.1	14.5	13.8	12.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1498.3	1499.0	1499.6	1500.3	1500.9	1501.6	1502.2	1502.9	1500.5	1498.1	1495.7
5°	1522.6	1522.6	1522.6	1522.6	1522.6	1522.6	1522.6	1522.6	1518.7	1514.7	1510.8
7.5°	1544.5	1543.7	1542.8	1541.9	1541.0	1540.2	1539.3	1538.4	1532.9	1527.4	1522.0
10°	1562.6	1560.8	1559.1	1557.3	1555.6	1553.8	1552.1	1550.3	1543.1	1535.8	1528.6
12.5°	1583.6	1580.6	1577.5	1574.4	1571.3	1568.3	1565.2	1562.1	1552.7	1543.2	1533.8
15°	1606.4	1600.9	1595.4	1590.0	1584.5	1579.0	1573.5	1568.0	1556.8	1545.6	1534.4
17.5°	1632.3	1624.0	1615.7	1607.3	1599.0	1590.7	1582.3	1574.0	1560.6	1547.2	1533.8
20°	1659.3	1647.7	1636.1	1624.4	1612.8	1601.2	1589.5	1577.9	1561.9	1545.9	1529.9
22.5°	1685.2	1670.7	1656.2	1641.8	1627.3	1612.8	1598.3	1583.8	1564.7	1545.6	1526.5
25°	1719.5	1702.3	1685.2	1668.1	1651.0	1633.8	1616.7	1599.6	1575.9	1552.2	1528.5
27.5°	1753.3	1733.3	1713.3	1693.4	1673.4	1653.4	1633.5	1613.5	1585.2	1556.9	1528.6
30°	1789.6	1766.2	1742.7	1719.2	1695.7	1672.3	1648.8	1625.3	1592.2	1559.0	1525.9
32.5°	1824.6	1797.8	1771.0	1744.3	1717.5	1690.7	1664.0	1637.2	1599.5	1561.7	1524.0
35°	1868.0	1837.3	1806.6	1775.8	1745.1	1714.4	1683.7	1653.0	1610.2	1567.4	1524.6
37.5°	1921.5	1886.0	1850.4	1814.9	1779.3	1743.8	1708.2	1672.7	1624.9	1577.0	1529.2
40°	1983.2	1941.9	1900.7	1859.4	1818.2	1776.9	1735.7	1694.4	1641.5	1588.6	1535.8
42.5°	2053.0	2005.2	1957.3	1909.5	1861.6	1813.8	1765.9	1718.1	1660.0	1601.8	1543.7
45°	2136.8	2081.5	2026.2	1970.9	1915.6	1860.3	1805.0	1749.7	1685.4	1621.1	1556.8
47.5°	2234.2	2170.4	2106.5	2042.7	1978.8	1915.0	1851.1	1787.3	1716.2	1645.1	1574.0
50°	2342.2	2269.1	2196.0	2123.0	2049.9	1976.8	1903.8	1830.7	1752.4	1674.0	1595.7
52.5°	2464.6	2381.7	2298.7	2215.8	2132.8	2049.9	1966.9	1884.0	1797.3	1710.7	1624.0
55°	2595.0	2502.1	2409.3	2316.5	2223.7	2130.8	2038.0	1945.2	1849.8	1754.3	1658.9
57.5°	2730.2	2627.9	2525.7	2423.4	2321.2	2218.9	2116.7	2014.4	1909.3	1804.2	1699.1
60°	2864.6	2753.6	2642.6	2531.5	2420.5	2309.5	2198.4	2087.4	1972.6	1857.9	1743.1
62.5°	2987.8	2870.2	2752.6	2634.9	2517.3	2399.7	2282.1	2164.5	2039.6	1914.8	1789.9
65°	3088.7	2966.3	2843.8	2721.4	2598.9	2476.5	2354.0	2231.6	2097.5	1963.5	1829.4
67.5°	3156.3	3032.1	2907.9	2783.7	2659.5	2535.3	2411.1	2286.9	2144.5	2002.1	1859.7
70°	3184.8	3061.0	2937.3	2813.5	2689.8	2566.0	2442.3	2318.5	2170.2	2021.8	1873.5
72.5°	3160.2	3040.0	2919.7	2799.5	2679.2	2559.0	2438.7	2318.5	2166.9	2015.3	1863.6
75°	3080.8	2966.3	2851.7	2737.2	2622.6	2508.1	2393.5	2279.0	2128.0	1977.1	1826.1
77.5°	2948.5	2841.9	2735.2	2628.6	2521.9	2415.3	2308.6	2202.0	2055.2	1908.4	1761.6
80°	2774.0	2675.9	2577.8	2479.8	2381.7	2283.6	2185.5	2087.4	1948.1	1808.7	1669.4
82.5°	2571.3	2482.4	2393.5	2304.7	2215.8	2126.9	2038.1	1949.2	1819.3	1689.4	1559.5
85°	2355.1	2275.7	2196.3	2116.8	2037.4	1958.0	1878.5	1799.1	1679.7	1560.4	1441.0
87.5°	2136.8	2065.7	1994.6	1923.5	1852.4	1781.3	1710.2	1639.1	1531.1	1423.2	1315.2
90°	1942.6	1878.1	1813.6	1749.0	1684.5	1620.0	1555.5	1491.0	1392.9	1294.8	1196.8
92.5°	1781.8	1722.7	1663.7	1604.7	1545.7	1486.6	1427.6	1368.6	1279.3	1190.0	1100.7
95°	1645.5	1590.5	1535.4	1480.3	1425.2	1370.2	1315.1	1260.0	1177.9	1095.9	1013.8
97.5°	1528.8	1476.5	1424.3	1372.1	1319.9	1267.6	1215.4	1163.2	1086.8	1010.5	934.1
100°	1432.8	1381.1	1329.3	1277.5	1225.7	1174.0	1122.2	1070.4	1000.0	929.5	859.1
102.5°	1350.6	1300.1	1249.6	1199.2	1148.7	1098.2	1047.8	997.3	930.6	863.9	797.2
105°	1281.2	1231.6	1182.0	1132.5	1082.9	1033.3	983.7	934.1	870.5	806.8	743.2
107.5°	1219.3	1170.4	1121.5	1072.5	1023.6	974.7	925.7	876.8	815.8	754.8	693.8
110°	1158.3	1110.5	1062.7	1014.8	967.0	919.2	871.3	823.5	764.9	706.3	647.7





TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1096.3	1050.0	1003.7	957.4	911.1	864.8	818.5	772.2	716.5	660.7	605.0
115°	1033.1	988.7	944.4	900.1	855.8	811.4	767.1	722.8	669.5	616.2	562.8
117.5°	974.7	932.8	890.9	848.9	807.0	765.1	723.2	681.3	630.2	579.1	527.9
120°	915.7	874.9	834.1	793.2	752.4	711.6	670.8	630.0	582.2	534.3	486.5
122.5°	856.2	816.3	776.4	736.4	696.5	656.6	616.6	576.7	532.6	488.5	444.4
125°	793.7	755.0	716.4	677.8	639.2	600.5	561.9	523.3	482.7	442.1	401.5
127.5°	724.4	688.6	652.8	617.1	581.3	545.5	509.8	474.0	436.7	399.4	362.1
130°	651.7	620.1	588.5	556.9	525.3	493.7	462.1	430.5	396.1	361.6	327.2
132.5°	583.3	555.0	526.7	498.3	470.0	441.7	413.4	385.1	353.5	321.9	290.3
135°	522.9	497.0	471.1	445.3	419.4	393.5	367.6	341.7	313.2	284.6	256.1
137.5°	462.5	439.1	415.6	392.1	368.6	345.2	321.7	298.2	272.5	246.8	221.2
140°	399.6	379.2	358.8	338.3	317.9	297.5	277.1	256.7	233.7	210.6	187.6
142.5°	345.2	327.2	309.2	291.2	273.2	255.2	237.2	219.2	198.8	178.4	158.0
145°	294.3	278.5	262.7	246.9	231.1	215.3	199.5	183.7	165.9	148.1	130.4
147.5°	245.3	231.7	218.1	204.5	190.9	177.3	163.7	150.1	135.0	119.8	104.7
150°	201.4	189.6	177.7	165.9	154.0	142.2	130.3	118.5	106.2	93.9	81.6
152.5°	159.5	149.4	139.3	129.3	119.2	109.1	99.0	88.9	79.5	70.0	60.6
155°	120.6	111.9	103.1	94.3	85.5	76.8	68.0	59.2	52.8	46.5	40.1
157.5°	84.7	77.6	70.6	63.6	56.6	49.5	42.5	35.5	31.6	27.6	23.7
160°	52.0	47.4	42.8	38.1	33.5	28.9	24.3	19.7	17.5	15.3	13.1
162.5°	27.9	25.0	22.2	19.3	16.5	13.6	10.8	7.9	7.0	6.1	5.3
165°	11.2	9.9	8.6	7.2	5.9	4.6	3.3	2.0	1.8	1.6	1.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1493.3	1490.8	1488.4	1486.0	1483.6	1481.2	1482.5	1483.8	1485.1	1486.4	1487.8
5°	1506.8	1502.9	1498.9	1495.0	1491.0	1487.1	1486.9	1486.7	1486.4	1486.2	1486.0
7.5°	1516.5	1511.0	1505.5	1500.1	1494.6	1489.1	1487.3	1485.6	1483.8	1482.1	1480.3
10°	1521.3	1514.1	1506.8	1499.6	1492.3	1485.1	1481.8	1478.5	1475.2	1471.9	1468.7
12.5°	1524.4	1514.9	1505.5	1496.1	1486.6	1477.2	1472.4	1467.6	1462.7	1457.9	1453.1
15°	1523.2	1512.1	1500.9	1489.7	1478.5	1467.3	1460.5	1453.7	1446.9	1440.1	1433.3
17.5°	1520.4	1507.1	1493.7	1480.3	1466.9	1453.5	1444.9	1436.4	1427.8	1419.3	1410.7
20°	1513.9	1497.8	1481.8	1465.8	1449.8	1433.8	1423.5	1413.2	1402.8	1392.5	1382.2
22.5°	1507.4	1488.4	1469.3	1450.2	1431.1	1412.0	1399.5	1387.0	1374.5	1362.0	1349.5
25°	1504.8	1481.2	1457.5	1433.8	1410.1	1386.4	1371.9	1357.4	1342.9	1328.4	1314.0
27.5°	1500.3	1471.9	1443.6	1415.3	1387.0	1358.7	1341.8	1324.9	1308.0	1291.1	1274.2
30°	1492.8	1459.6	1426.5	1393.4	1360.2	1327.1	1308.2	1289.4	1270.5	1251.6	1232.8
32.5°	1486.2	1448.5	1410.7	1373.0	1335.2	1297.5	1275.8	1254.1	1232.3	1210.6	1188.9
35°	1481.8	1439.1	1396.3	1353.5	1310.7	1267.9	1243.3	1218.7	1194.2	1169.6	1145.0
37.5°	1481.4	1433.5	1385.7	1337.9	1290.0	1242.2	1213.9	1185.6	1157.3	1129.0	1100.6
40°	1482.9	1430.0	1377.1	1324.3	1271.4	1218.5	1186.5	1154.4	1122.4	1090.4	1058.3
42.5°	1485.5	1427.4	1369.2	1311.1	1252.9	1194.8	1158.8	1122.8	1086.8	1050.8	1014.9
45°	1492.5	1428.3	1364.0	1299.7	1235.4	1171.1	1130.9	1090.8	1050.6	1010.5	970.3
47.5°	1502.9	1431.8	1360.7	1289.6	1218.5	1147.4	1103.3	1059.2	1015.1	971.0	926.9
50°	1517.4	1439.0	1360.7	1282.4	1204.0	1125.7	1077.0	1028.3	979.6	930.9	882.1
52.5°	1537.3	1450.7	1364.0	1277.3	1190.7	1104.0	1052.0	1000.0	948.0	896.0	843.9
55°	1563.4	1468.0	1372.5	1277.1	1181.6	1086.2	1029.6	973.0	916.4	859.8	803.1
57.5°	1594.0	1488.8	1383.7	1278.6	1173.5	1068.4	1007.6	946.8	886.1	825.3	764.5
60°	1628.4	1513.6	1398.9	1284.1	1169.4	1054.6	988.3	922.1	855.8	789.5	723.3
62.5°	1665.1	1540.2	1415.4	1290.5	1165.7	1040.8	970.8	900.8	830.8	760.8	690.8
65°	1695.3	1561.3	1427.2	1293.1	1159.1	1025.0	951.0	877.1	803.1	729.2	655.2
67.5°	1717.3	1574.8	1432.4	1290.0	1147.6	1005.2	928.2	851.2	774.1	697.1	620.1
70°	1725.2	1576.8	1428.5	1280.2	1131.8	983.5	903.8	824.2	744.5	664.9	585.2
72.5°	1712.0	1560.4	1408.8	1257.1	1105.5	953.9	872.5	791.1	709.7	628.3	546.8
75°	1675.1	1524.2	1373.2	1222.2	1071.3	920.3	838.0	755.7	673.4	591.1	508.9
77.5°	1614.8	1468.0	1321.2	1174.4	1027.6	880.8	798.5	716.2	633.9	551.6	469.4
80°	1530.1	1390.7	1251.4	1112.1	972.7	833.4	752.2	671.0	589.8	508.6	427.5
82.5°	1429.6	1299.7	1169.8	1039.9	910.0	780.1	701.1	622.1	543.1	464.1	385.1
85°	1321.6	1202.3	1082.9	963.5	844.2	724.8	648.9	573.0	497.0	421.1	345.2
87.5°	1207.3	1099.3	991.4	883.4	775.5	667.5	595.1	522.7	450.3	377.9	305.4
90°	1098.7	1000.6	902.5	804.5	706.4	608.3	540.7	473.1	405.5	337.9	270.4
92.5°	1011.4	922.0	832.7	743.4	654.1	564.8	502.0	439.3	376.5	313.8	251.0
95°	931.7	849.7	767.6	685.5	603.5	521.4	463.5	405.5	347.6	289.7	231.7
97.5°	857.7	781.4	705.0	628.6	552.3	475.9	423.0	370.1	317.3	264.4	211.5
100°	788.6	718.2	647.7	577.3	506.8	436.4	387.9	339.4	290.9	242.4	194.0
102.5°	730.5	663.7	597.0	530.3	463.6	396.9	352.8	308.7	264.6	220.5	176.4
105°	679.6	615.9	552.3	488.7	425.0	361.4	321.2	281.1	240.9	200.8	160.6
107.5°	632.8	571.8	510.8	449.8	388.8	327.8	291.4	255.0	218.5	182.1	145.7
110°	589.1	530.6	472.0	413.4	354.8	296.2	263.3	230.4	197.5	164.6	131.6



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	549.3	493.5	437.8	382.1	326.3	270.6	240.5	210.5	180.4	150.3	120.3
115°	509.5	456.2	402.9	349.5	296.2	242.9	215.9	188.9	161.9	134.9	108.0
117.5°	476.8	425.7	374.6	323.4	272.3	221.2	196.6	172.0	147.5	122.9	98.3
120°	438.7	390.8	343.0	295.2	247.3	199.5	177.3	155.2	133.0	110.8	88.7
122.5°	400.3	356.1	312.0	267.9	223.8	179.7	159.7	139.8	119.8	99.8	79.9
125°	360.9	320.4	279.8	239.2	198.6	158.0	140.4	122.9	105.3	87.8	70.2
127.5°	324.8	287.4	250.1	212.8	175.5	138.2	122.8	107.5	92.1	76.8	61.4
130°	292.7	258.3	223.8	189.4	154.9	120.5	107.1	93.7	80.3	66.9	53.6
132.5°	258.7	227.1	195.5	163.9	132.3	100.7	89.5	78.3	67.1	55.9	44.8
135°	227.6	199.0	170.5	142.0	113.4	84.9	75.5	66.0	56.6	47.2	37.7
137.5°	195.5	169.8	144.1	118.5	92.8	67.1	59.6	52.2	44.7	37.3	29.8
140°	164.6	141.5	118.5	95.5	72.4	49.4	43.9	38.4	32.9	27.4	22.0
142.5°	137.6	117.1	96.7	76.3	55.9	35.5	31.6	27.6	23.7	19.7	15.8
145°	112.6	94.8	77.0	59.3	41.5	23.7	21.1	18.4	15.8	13.2	10.5
147.5°	89.5	74.4	59.2	44.1	28.9	13.8	12.3	10.7	9.2	7.7	6.1
150°	69.3	57.1	44.8	32.5	20.2	7.9	7.0	6.1	5.3	4.4	3.5
152.5°	51.1	41.7	32.2	22.8	13.3	3.9	3.5	3.0	2.6	2.2	1.7
155°	33.8	27.4	21.1	14.7	8.4	2.0	1.8	1.6	1.3	1.1	0.9
157.5°	19.7	15.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	10.9	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	4.4	3.5	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	0.9	0.7	0.4	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: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1489.1	1490.4	1491.7	1493.0	1489.7	1486.4	1483.1	1479.8	1476.6	1473.3	1470.0
5°	1485.8	1485.5	1485.3	1485.1	1480.9	1476.8	1472.6	1468.4	1464.3	1460.1	1455.9
7.5°	1478.6	1476.8	1475.1	1473.3	1468.0	1462.8	1457.5	1452.2	1447.0	1441.7	1436.4
10°	1465.4	1462.1	1458.8	1455.5	1449.6	1443.7	1437.7	1431.8	1425.9	1420.0	1414.0
12.5°	1448.3	1443.4	1438.6	1433.8	1427.0	1420.2	1413.4	1406.6	1399.7	1392.9	1386.1
15°	1426.5	1419.7	1412.9	1406.1	1399.1	1392.1	1385.0	1378.0	1371.0	1364.0	1356.9
17.5°	1402.2	1393.6	1385.1	1376.5	1369.3	1362.0	1354.8	1347.5	1340.3	1333.0	1325.8
20°	1371.9	1361.5	1351.2	1340.9	1333.4	1326.0	1318.5	1311.1	1303.6	1296.2	1288.7
22.5°	1337.0	1324.5	1312.0	1299.5	1292.5	1285.5	1278.4	1271.4	1264.4	1257.4	1250.3
25°	1299.5	1285.0	1270.5	1256.0	1249.4	1242.8	1236.3	1229.7	1223.1	1216.5	1210.0
27.5°	1257.3	1240.4	1223.5	1206.6	1200.9	1195.2	1189.5	1183.8	1178.1	1172.4	1166.7
30°	1213.9	1195.0	1176.2	1157.3	1152.0	1146.8	1141.5	1136.2	1131.0	1125.7	1120.4
32.5°	1167.2	1145.4	1123.7	1102.0	1098.3	1094.5	1090.8	1087.1	1083.3	1079.6	1075.9
35°	1120.4	1095.9	1071.3	1046.7	1044.7	1042.7	1040.8	1038.8	1036.8	1034.8	1032.9
37.5°	1072.3	1044.0	1015.7	987.4	987.8	988.3	988.7	989.2	989.6	990.1	990.5
40°	1026.3	994.3	962.2	930.2	933.5	936.8	940.1	943.4	946.6	949.9	953.2
42.5°	978.9	942.9	906.9	870.9	877.7	884.5	891.3	898.1	904.9	911.7	918.5
45°	930.2	890.0	849.9	809.7	820.2	830.8	841.3	851.8	862.4	872.9	883.4
47.5°	882.8	838.7	794.6	750.5	764.5	778.6	792.6	806.6	820.7	834.7	848.7
50°	833.4	784.7	736.0	687.3	705.5	723.7	741.9	760.1	778.4	796.6	814.8
52.5°	791.9	739.9	687.9	635.9	657.4	678.9	700.4	721.9	743.4	764.9	786.4
55°	746.5	689.9	633.3	576.7	602.1	627.6	653.0	678.5	703.9	729.4	754.8
57.5°	703.7	643.0	582.2	521.4	551.0	580.6	610.3	639.9	669.5	699.1	728.8
60°	657.0	590.7	524.5	458.2	492.4	526.6	560.9	595.1	629.3	663.5	697.8
62.5°	620.8	550.8	480.8	410.8	448.1	485.4	522.7	560.0	597.3	634.6	671.9
65°	581.3	507.3	433.4	359.4	400.0	440.6	481.2	521.8	562.4	603.0	643.6
67.5°	543.1	466.0	389.0	312.0	355.5	398.9	442.4	485.8	529.3	572.7	616.2
70°	505.6	425.9	346.3	266.6	312.2	357.9	403.5	449.2	494.8	540.5	586.1
72.5°	465.4	384.0	302.6	221.2	268.4	315.6	362.7	409.9	457.1	504.3	551.4
75°	426.6	344.3	262.0	179.7	227.8	275.8	323.9	371.9	420.0	468.0	516.1
77.5°	387.1	304.8	222.5	140.2	188.7	237.2	285.7	334.2	382.7	431.2	479.7
80°	346.3	265.1	183.9	102.7	151.0	199.3	247.5	295.8	344.1	392.4	440.6
82.5°	306.1	227.1	148.1	69.1	116.5	163.9	211.3	258.7	306.1	353.5	400.9
85°	269.3	193.3	117.4	41.5	86.7	131.9	177.1	222.3	267.5	312.7	357.9
87.5°	233.0	160.6	88.2	15.8	59.5	103.1	146.8	190.5	234.1	277.8	321.5
90°	202.8	135.2	67.6	0.0	41.0	82.1	123.1	164.1	205.2	246.2	287.2
92.5°	188.3	125.5	62.8	0.0	38.2	76.4	114.5	152.7	190.9	229.1	267.2
95°	173.8	115.9	57.9	0.0	35.5	71.1	106.6	142.2	177.7	213.3	248.8
97.5°	158.6	105.8	52.9	0.0	32.7	65.4	98.1	130.8	163.5	196.2	228.9
100°	145.5	97.0	48.5	0.0	30.3	60.6	90.8	121.1	151.4	181.7	211.9
102.5°	132.3	88.2	44.1	0.0	27.9	55.7	83.6	111.5	139.3	167.2	195.1
105°	120.5	80.3	40.2	0.0	25.5	50.9	76.4	101.8	127.3	152.7	178.2
107.5°	109.3	72.8	36.4	0.0	23.3	46.5	69.8	93.0	116.3	139.5	162.8
110°	98.7	65.8	32.9	0.0	21.3	42.6	63.9	85.2	106.4	127.7	149.0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	90.2	60.1	30.1	0.0	19.3	38.6	57.9	77.2	96.6	115.9	135.2
115°	81.0	54.0	27.0	0.0	17.1	34.2	51.3	68.4	85.6	102.7	119.8
117.5°	73.7	49.2	24.6	0.0	15.4	30.7	46.1	61.4	76.8	92.1	107.5
120°	66.5	44.3	22.2	0.0	13.8	27.6	41.5	55.3	69.1	82.9	96.8
122.5°	59.9	39.9	20.0	0.0	12.3	24.6	36.9	49.2	61.4	73.7	86.0
125°	52.7	35.1	17.6	0.0	11.0	21.9	32.9	43.9	54.8	65.8	76.8
127.5°	46.1	30.7	15.4	0.0	9.4	18.9	28.3	37.7	47.2	56.6	66.0
130°	40.2	26.8	13.4	0.0	7.9	15.8	23.7	31.6	39.5	47.4	55.3
132.5°	33.6	22.4	11.2	0.0	6.6	13.2	19.7	26.3	32.9	39.5	46.0
135°	28.3	18.9	9.4	0.0	5.3	10.5	15.8	21.1	26.3	31.6	36.9
137.5°	22.4	14.9	7.5	0.0	3.9	7.9	11.8	15.8	19.7	23.7	27.6
140°	16.5	11.0	5.5	0.0	2.9	5.7	8.6	11.4	14.3	17.1	20.0
142.5°	11.8	7.9	3.9	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3
145°	7.9	5.3	2.6	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7
147.5°	4.6	3.1	1.5	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
150°	2.6	1.8	0.9	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6
152.5°	1.3	0.9	0.4	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0
155°	0.7	0.4	0.2	0.0	0.2	0.4	0.7	0.9	1.1	1.3	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: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1466.7	1463.4	1462.5	1461.6	1460.8	1459.9	1459.0	1458.1	1457.3	1456.4	1455.5
5°	1451.8	1447.6	1445.8	1444.1	1442.3	1440.6	1438.8	1437.1	1435.3	1433.6	1431.8
7.5°	1431.2	1425.9	1423.9	1421.9	1420.0	1418.0	1416.0	1414.0	1412.1	1410.1	1408.1
10°	1408.1	1402.2	1400.0	1397.8	1395.6	1393.4	1391.2	1389.0	1386.8	1384.6	1382.4
12.5°	1379.3	1372.5	1370.5	1368.6	1366.6	1364.6	1362.7	1360.7	1358.7	1356.8	1354.8
15°	1349.9	1342.9	1341.4	1339.8	1338.3	1336.8	1335.2	1333.7	1332.2	1330.6	1329.1
17.5°	1318.5	1311.3	1310.4	1309.5	1308.7	1307.8	1306.9	1306.0	1305.2	1304.3	1303.4
20°	1281.3	1273.8	1274.7	1275.6	1276.4	1277.3	1278.2	1279.1	1279.9	1280.8	1281.7
22.5°	1243.3	1236.3	1239.6	1242.9	1246.2	1249.5	1252.7	1256.0	1259.3	1262.6	1265.9
25°	1203.4	1196.8	1203.6	1210.4	1217.2	1224.0	1230.8	1237.6	1244.4	1251.2	1258.0
27.5°	1161.0	1155.3	1166.7	1178.1	1189.5	1200.9	1212.4	1223.8	1235.2	1246.6	1258.0
30°	1115.2	1109.9	1126.1	1142.4	1158.6	1174.8	1191.1	1207.3	1223.5	1239.8	1256.0
32.5°	1072.1	1068.4	1089.0	1109.6	1130.3	1150.9	1171.5	1192.1	1212.8	1233.4	1254.0
35°	1030.9	1028.9	1053.7	1078.5	1103.3	1128.1	1152.9	1177.7	1202.5	1227.3	1252.1
37.5°	991.0	991.4	1020.4	1049.3	1078.3	1107.3	1136.2	1165.2	1194.2	1223.1	1252.1
40°	956.5	959.8	992.7	1025.6	1058.5	1091.4	1124.4	1157.3	1190.2	1223.1	1256.0
42.5°	925.3	932.1	968.7	1005.4	1042.0	1078.7	1115.3	1152.0	1188.6	1225.3	1261.9
45°	894.0	904.5	945.5	986.6	1027.6	1068.6	1109.7	1150.7	1191.7	1232.8	1273.8
47.5°	862.8	876.8	922.7	968.5	1014.4	1060.3	1106.1	1152.0	1197.9	1243.7	1289.6
50°	833.0	851.2	902.3	953.4	1004.6	1055.7	1106.8	1157.9	1209.1	1260.2	1311.3
52.5°	807.9	829.4	886.0	942.6	999.3	1055.9	1112.5	1169.1	1225.8	1282.4	1339.0
55°	780.3	805.7	868.7	931.7	994.6	1057.6	1120.6	1183.6	1246.5	1309.5	1372.5
57.5°	758.4	788.0	857.6	927.1	996.7	1066.2	1135.8	1205.3	1274.9	1344.4	1414.0
60°	732.0	766.2	843.2	920.2	997.3	1074.3	1151.3	1228.3	1305.4	1382.4	1459.4
62.5°	709.2	746.5	830.8	915.0	999.3	1083.6	1167.8	1252.1	1336.4	1420.6	1504.9
65°	684.2	724.8	816.1	907.4	998.6	1089.9	1181.2	1272.5	1363.7	1455.0	1546.3
67.5°	659.6	703.1	800.1	897.1	994.0	1091.0	1188.0	1285.0	1381.9	1478.9	1575.9
70°	631.8	677.4	778.6	879.7	980.9	1082.0	1183.2	1284.3	1385.5	1486.6	1587.8
72.5°	598.6	645.8	748.9	852.1	955.2	1058.3	1161.5	1264.6	1367.7	1470.9	1574.0
75°	564.1	612.2	714.5	816.7	919.0	1021.2	1123.5	1225.7	1328.0	1430.2	1532.5
77.5°	528.2	576.7	675.2	773.7	872.3	970.8	1069.3	1167.8	1266.4	1364.9	1463.4
80°	488.9	537.2	629.8	722.4	815.0	907.6	1000.2	1092.8	1185.4	1278.0	1370.6
82.5°	448.3	495.7	581.3	666.9	752.4	838.0	923.6	1009.2	1094.7	1180.3	1265.9
85°	403.1	448.3	526.9	605.4	684.0	762.5	841.1	919.6	998.2	1076.7	1155.3
87.5°	365.1	408.8	479.0	549.2	619.5	689.7	759.9	830.1	900.4	970.6	1040.8
90°	328.3	369.3	432.3	495.3	558.2	621.2	684.2	747.2	810.1	873.1	936.1
92.5°	305.4	343.6	400.4	457.3	514.1	570.9	627.8	684.6	741.4	798.3	855.1
95°	284.4	319.9	372.1	424.3	476.6	528.8	581.0	633.2	685.5	737.7	789.9
97.5°	261.6	294.3	343.0	391.7	440.4	489.1	537.9	586.6	635.3	684.0	732.7
100°	242.2	272.5	318.1	363.8	409.4	455.1	500.7	546.4	592.0	637.7	683.3
102.5°	222.9	250.8	294.2	337.7	381.1	424.6	468.0	511.5	554.9	598.4	641.8
105°	203.6	229.1	270.8	312.5	354.2	395.9	437.5	479.2	520.9	562.6	604.3
107.5°	186.0	209.3	249.5	289.6	329.8	369.9	410.1	450.2	490.4	530.5	570.7
110°	170.3	191.6	230.2	268.8	307.4	346.0	384.7	423.3	461.9	500.5	539.1



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	154.5	173.8	210.9	248.0	285.0	322.1	359.2	396.3	433.3	470.4	507.5
115°	136.9	154.0	189.1	224.2	259.3	294.4	329.6	364.7	399.8	434.9	470.0
117.5°	122.8	138.2	171.6	204.9	238.3	271.6	305.0	338.3	371.7	405.0	438.4
120°	110.6	124.4	155.6	186.7	217.9	249.0	280.2	311.3	342.5	373.6	404.8
122.5°	98.3	110.6	139.6	168.5	197.5	226.5	255.4	284.4	313.4	342.3	371.3
125°	87.7	98.7	125.3	151.8	178.4	204.9	231.5	258.0	284.6	311.1	337.7
127.5°	75.5	84.9	108.8	132.7	156.7	180.6	204.5	228.4	252.4	276.3	300.2
130°	63.2	71.1	91.9	112.8	133.6	154.5	175.3	196.2	217.0	237.9	258.7
132.5°	52.6	59.2	76.8	94.3	111.9	129.4	147.0	164.5	182.1	199.6	217.2
135°	42.1	47.4	62.8	78.1	93.5	108.8	124.2	139.5	154.9	170.2	185.6
137.5°	31.6	35.5	48.9	62.3	75.7	89.1	102.4	115.8	129.2	142.6	156.0
140°	22.8	25.7	37.3	48.9	60.6	72.2	83.8	95.4	107.1	118.7	130.3
142.5°	14.0	15.8	25.9	36.0	46.1	56.2	66.2	76.3	86.4	96.5	106.6
145°	8.8	9.9	18.2	26.6	34.9	43.2	51.6	59.9	68.2	76.6	84.9
147.5°	7.0	7.9	14.5	21.1	27.6	34.2	40.8	47.4	53.9	60.5	67.1
150°	5.2	5.9	10.9	16.0	21.0	26.1	31.1	36.2	41.2	46.3	51.3
152.5°	3.5	3.9	7.6	11.4	15.1	18.8	22.6	26.3	30.0	33.8	37.5
155°	1.8	2.0	4.4	6.8	9.2	11.6	14.1	16.5	18.9	21.3	23.7
157.5°	0.0	0.0	1.3	2.6	3.9	5.2	6.6	7.9	9.2	10.5	11.8
160°	0.0	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.5	3.9
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: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1454.4	1453.3	1452.2	1451.1	1450.0	1448.9	1447.8	1446.7	1445.6	1444.1	1442.5
5°	1430.3	1428.7	1427.2	1425.7	1424.1	1422.6	1421.1	1419.5	1418.0	1417.3	1416.7
7.5°	1406.3	1404.6	1402.8	1401.1	1399.3	1397.6	1395.8	1394.1	1392.3	1392.1	1391.9
10°	1381.1	1379.8	1378.5	1377.2	1375.8	1374.5	1373.2	1371.9	1370.6	1369.9	1369.3
12.5°	1354.1	1353.5	1352.8	1352.1	1351.5	1350.8	1350.1	1349.5	1348.8	1348.6	1348.4
15°	1329.3	1329.5	1329.8	1330.0	1330.2	1330.4	1330.7	1330.9	1331.1	1331.8	1332.4
17.5°	1305.8	1308.2	1310.6	1313.0	1315.5	1317.9	1320.3	1322.7	1325.1	1326.9	1328.6
20°	1287.2	1292.7	1298.2	1303.7	1309.1	1314.6	1320.1	1325.6	1331.1	1334.2	1337.2
22.5°	1274.7	1283.5	1292.2	1301.0	1309.8	1318.6	1327.3	1336.1	1344.9	1348.4	1351.9
25°	1269.2	1280.4	1291.6	1302.8	1313.9	1325.1	1336.3	1347.5	1358.7	1362.7	1366.6
27.5°	1270.7	1283.4	1296.2	1308.9	1321.6	1334.3	1347.1	1359.8	1372.5	1377.1	1381.7
30°	1270.5	1285.0	1299.5	1314.0	1328.4	1342.9	1357.4	1371.9	1386.4	1392.1	1397.8
32.5°	1270.7	1287.4	1304.0	1320.7	1337.4	1354.1	1370.7	1387.4	1404.1	1411.1	1418.1
35°	1271.4	1290.7	1310.0	1329.3	1348.7	1368.0	1387.3	1406.6	1425.9	1434.5	1443.0
37.5°	1274.7	1297.3	1319.9	1342.5	1365.1	1387.7	1410.3	1432.9	1455.5	1465.6	1475.7
40°	1282.1	1308.2	1334.3	1360.4	1386.6	1412.7	1438.8	1464.9	1491.0	1503.3	1515.6
42.5°	1292.4	1322.9	1353.4	1383.9	1414.4	1444.9	1475.4	1505.9	1536.4	1551.1	1565.8
45°	1309.1	1344.4	1379.8	1415.1	1450.4	1485.7	1521.1	1556.4	1591.7	1608.8	1625.9
47.5°	1330.6	1371.7	1412.7	1453.7	1494.8	1535.8	1576.8	1617.9	1658.9	1678.6	1698.4
50°	1358.9	1406.5	1454.2	1501.8	1549.4	1597.0	1644.7	1692.3	1739.9	1762.5	1785.1
52.5°	1393.4	1447.8	1502.2	1556.6	1611.1	1665.5	1719.9	1774.3	1828.7	1853.9	1879.2
55°	1434.4	1496.3	1558.1	1620.0	1681.9	1743.8	1805.6	1867.5	1929.4	1956.8	1984.3
57.5°	1482.7	1551.4	1620.0	1688.7	1757.4	1826.1	1894.7	1963.4	2032.1	2061.7	2091.3
60°	1534.4	1609.5	1684.5	1759.6	1834.6	1909.7	1984.7	2059.8	2134.8	2165.3	2195.8
62.5°	1585.4	1665.9	1746.5	1827.0	1907.5	1988.0	2068.6	2149.1	2229.6	2259.9	2290.2
65°	1630.8	1715.3	1799.7	1884.2	1968.7	2053.2	2137.6	2222.1	2306.6	2336.4	2366.3
67.5°	1662.4	1748.8	1835.3	1921.7	2008.2	2094.6	2181.1	2267.5	2354.0	2382.5	2411.1
70°	1674.0	1760.3	1846.5	1932.7	2019.0	2105.2	2191.4	2277.7	2363.9	2390.7	2417.5
72.5°	1658.3	1742.5	1826.8	1911.0	1995.3	2079.5	2163.8	2248.0	2332.3	2356.9	2381.5
75°	1612.6	1692.7	1772.8	1852.9	1932.9	2013.0	2093.1	2173.2	2253.3	2275.7	2298.1
77.5°	1537.8	1612.2	1686.6	1761.0	1835.3	1909.7	1984.1	2058.5	2132.9	2153.5	2174.1
80°	1438.2	1505.8	1573.3	1640.9	1708.5	1776.1	1843.6	1911.2	1978.8	1997.5	2016.1
82.5°	1326.2	1386.6	1446.9	1507.3	1567.6	1628.0	1688.3	1748.7	1809.0	1825.7	1842.4
85°	1208.6	1261.9	1315.3	1368.6	1421.9	1475.2	1528.6	1581.9	1635.2	1649.9	1664.6
87.5°	1087.5	1134.3	1181.0	1227.7	1274.5	1321.2	1367.9	1414.7	1461.4	1474.8	1488.2
90°	977.4	1018.6	1059.9	1101.1	1142.4	1183.6	1224.9	1266.1	1307.4	1319.7	1332.0
92.5°	892.2	929.3	966.4	1003.5	1040.5	1077.6	1114.7	1151.8	1188.9	1200.1	1211.3
95°	823.7	857.5	891.3	925.1	958.9	992.7	1026.5	1060.3	1094.1	1104.4	1114.7
97.5°	764.5	796.3	828.1	859.9	891.8	923.6	955.4	987.2	1019.0	1028.9	1038.8
100°	713.8	744.3	774.8	805.3	835.8	866.3	896.8	927.3	957.8	967.5	977.1
102.5°	671.4	701.0	730.7	760.3	789.9	819.5	849.2	878.8	908.4	917.8	927.3
105°	633.5	662.7	691.9	721.1	750.2	779.4	808.6	837.8	867.0	876.4	885.9
107.5°	599.9	629.1	658.3	687.5	716.6	745.8	775.0	804.2	833.4	842.8	852.3
110°	567.8	596.6	625.3	654.1	682.8	711.6	740.3	769.1	797.8	807.7	817.6





TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	536.5	565.4	594.4	623.4	652.3	681.3	710.3	739.2	768.2	778.3	788.4
115°	499.4	528.8	558.2	587.6	617.1	646.5	675.9	705.3	734.7	745.2	755.7
117.5°	467.4	496.3	525.3	554.3	583.2	612.2	641.2	670.1	699.1	709.9	720.6
120°	433.1	461.4	489.7	518.0	546.4	574.7	603.0	631.3	659.6	670.6	681.6
122.5°	398.3	425.3	452.3	479.3	506.2	533.2	560.2	587.2	614.2	625.4	636.6
125°	363.2	388.6	414.1	439.5	465.0	490.4	515.9	541.3	566.8	577.8	588.7
127.5°	324.3	348.5	372.6	396.7	420.9	445.0	469.1	493.3	517.4	527.7	538.0
130°	281.3	303.9	326.5	349.1	371.7	394.3	416.9	439.5	462.1	472.2	482.3
132.5°	239.1	261.1	283.0	305.0	326.9	348.9	370.8	392.8	414.7	423.7	432.7
135°	205.6	225.6	245.5	265.5	285.5	305.5	325.4	345.4	365.4	373.3	381.2
137.5°	173.1	190.2	207.4	224.5	241.6	258.7	275.9	293.0	310.1	318.2	326.3
140°	143.9	157.5	171.1	184.7	198.4	212.0	225.6	239.2	252.8	261.1	269.5
142.5°	118.2	129.9	141.5	153.1	164.8	176.4	188.0	199.7	211.3	218.1	224.9
145°	94.8	104.7	114.5	124.4	134.3	144.2	154.0	163.9	173.8	180.4	187.0
147.5°	75.2	83.3	91.5	99.6	107.7	115.8	124.0	132.1	140.2	146.3	152.5
150°	57.9	64.5	71.1	77.7	84.2	90.8	97.4	104.0	110.6	116.5	122.4
152.5°	42.5	47.6	52.6	57.7	62.7	67.8	72.8	77.9	82.9	88.4	93.9
155°	27.9	32.0	36.2	40.4	44.5	48.7	52.9	57.0	61.2	66.2	71.3
157.5°	15.1	18.4	21.7	25.0	28.3	31.6	34.9	38.2	41.5	45.9	50.3
160°	6.3	8.7	11.2	13.6	16.0	18.4	20.9	23.3	25.7	29.4	33.1
162.5°	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	12.7	15.6
165°	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	3.8	5.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1441.0	1439.5	1437.9	1436.4	1434.9	1433.3	1431.8	1433.1	1434.4	1435.7	1437.0
5°	1416.0	1415.3	1414.7	1414.0	1413.3	1412.7	1412.0	1412.7	1413.3	1414.0	1414.7
7.5°	1391.6	1391.4	1391.2	1391.0	1390.7	1390.5	1390.3	1390.5	1390.7	1391.0	1391.2
10°	1368.6	1367.9	1367.3	1366.6	1365.9	1365.3	1364.6	1364.8	1365.0	1365.3	1365.5
12.5°	1348.2	1348.0	1347.7	1347.5	1347.3	1347.1	1346.9	1346.7	1346.5	1346.2	1346.0
15°	1333.1	1333.7	1334.4	1335.0	1335.7	1336.3	1337.0	1336.3	1335.7	1335.0	1334.4
17.5°	1330.4	1332.1	1333.9	1335.6	1337.4	1339.1	1340.9	1339.1	1337.4	1335.6	1333.9
20°	1340.3	1343.4	1346.4	1349.5	1352.6	1355.6	1358.7	1355.2	1351.7	1348.2	1344.7
22.5°	1355.4	1358.9	1362.5	1366.0	1369.5	1373.0	1376.5	1372.1	1367.7	1363.3	1358.9
25°	1370.6	1374.5	1378.5	1382.4	1386.4	1390.3	1394.3	1389.7	1385.1	1380.5	1375.9
27.5°	1386.3	1390.9	1395.6	1400.2	1404.8	1409.4	1414.0	1408.7	1403.5	1398.2	1392.9
30°	1403.5	1409.2	1414.9	1420.6	1426.3	1432.0	1437.7	1431.6	1425.4	1419.3	1413.1
32.5°	1425.2	1432.2	1439.2	1446.2	1453.3	1460.3	1467.3	1460.1	1452.8	1445.6	1438.4
35°	1451.6	1460.1	1468.7	1477.2	1485.8	1494.3	1502.9	1494.3	1485.8	1477.2	1468.7
37.5°	1485.8	1495.9	1505.9	1516.0	1526.1	1536.2	1546.3	1536.2	1526.1	1516.0	1505.9
40°	1527.9	1540.2	1552.4	1564.7	1577.0	1589.3	1601.6	1589.8	1577.9	1566.1	1554.2
42.5°	1580.5	1595.2	1610.0	1624.7	1639.4	1654.1	1668.8	1654.8	1640.7	1626.7	1612.6
45°	1643.1	1660.2	1677.3	1694.4	1711.6	1728.7	1745.8	1730.2	1714.6	1699.1	1683.5
47.5°	1718.1	1737.9	1757.6	1777.4	1797.1	1816.9	1836.6	1818.6	1800.6	1782.6	1764.6
50°	1807.7	1830.3	1852.9	1875.5	1898.1	1920.7	1943.3	1922.5	1901.6	1880.8	1859.9
52.5°	1904.4	1929.6	1954.9	1980.1	2005.3	2030.6	2055.8	2033.0	2010.2	1987.4	1964.6
55°	2011.7	2039.1	2066.6	2094.0	2121.4	2148.9	2176.3	2151.7	2127.1	2102.6	2078.0
57.5°	2121.0	2150.6	2180.2	2209.8	2239.5	2269.1	2298.7	2272.4	2246.1	2219.7	2193.4
60°	2226.3	2256.8	2287.3	2317.8	2348.3	2378.8	2409.3	2382.3	2355.3	2328.3	2301.3
62.5°	2320.5	2350.8	2381.0	2411.3	2441.6	2471.9	2502.2	2475.6	2449.1	2422.5	2396.0
65°	2396.1	2426.0	2455.8	2485.7	2515.5	2545.4	2575.2	2549.3	2523.4	2497.5	2471.6
67.5°	2439.6	2468.1	2496.7	2525.2	2553.7	2582.3	2610.8	2586.0	2561.2	2536.4	2511.6
70°	2444.2	2471.0	2497.8	2524.6	2551.3	2578.1	2604.9	2581.6	2558.4	2535.1	2511.8
72.5°	2406.0	2430.6	2455.2	2479.8	2504.3	2528.9	2553.5	2531.6	2509.6	2487.7	2465.7
75°	2320.5	2342.9	2365.2	2387.6	2410.0	2432.4	2454.8	2434.4	2414.0	2393.6	2373.2
77.5°	2194.8	2215.4	2236.0	2256.6	2277.3	2297.9	2318.5	2299.4	2280.3	2261.2	2242.1
80°	2034.8	2053.4	2072.1	2090.7	2109.4	2128.0	2146.7	2128.7	2110.7	2092.7	2074.7
82.5°	1859.0	1875.7	1892.4	1909.1	1925.7	1942.4	1959.1	1942.0	1924.9	1907.7	1890.6
85°	1679.3	1694.0	1708.7	1723.4	1738.1	1752.8	1767.5	1751.7	1735.9	1720.1	1704.3
87.5°	1501.6	1515.0	1528.3	1541.7	1555.1	1568.5	1581.9	1569.2	1556.4	1543.7	1531.0
90°	1344.3	1356.6	1368.8	1381.1	1393.4	1405.7	1418.0	1406.1	1394.3	1382.4	1370.6
92.5°	1222.5	1233.7	1244.8	1256.0	1267.2	1278.4	1289.6	1278.4	1267.2	1256.0	1244.8
95°	1125.0	1135.3	1145.7	1156.0	1166.3	1176.6	1186.9	1176.8	1166.7	1156.6	1146.5
97.5°	1048.6	1058.5	1068.4	1078.3	1088.1	1098.0	1107.9	1098.2	1088.6	1078.9	1069.3
100°	986.8	996.4	1006.1	1015.7	1025.4	1035.0	1044.7	1035.5	1026.3	1017.1	1007.9
102.5°	936.7	946.2	955.6	965.1	974.5	984.0	993.4	984.2	975.0	965.7	956.5
105°	895.3	904.7	914.2	923.6	933.0	942.5	951.9	943.1	934.3	925.6	916.8
107.5°	861.7	871.1	880.6	890.0	899.4	908.9	918.3	909.3	900.3	891.3	882.3
110°	827.4	837.3	847.2	857.1	866.9	876.8	886.7	877.5	868.3	859.1	849.9



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	798.5	808.6	818.7	828.8	838.9	849.0	859.1	849.7	840.2	830.8	821.3
115°	766.3	776.8	787.3	797.8	808.4	818.9	829.4	819.5	809.7	799.8	789.9
117.5°	731.4	742.1	752.9	763.6	774.4	785.1	795.9	785.8	775.7	765.6	755.5
120°	692.5	703.5	714.5	725.5	736.4	747.4	758.4	748.3	738.2	728.1	718.0
122.5°	647.8	659.0	670.1	681.3	692.5	703.7	714.9	704.8	694.7	684.6	674.5
125°	599.7	610.7	621.6	632.6	643.6	654.5	665.5	655.6	645.8	635.9	626.0
127.5°	548.3	558.6	569.0	579.3	589.6	599.9	610.2	601.0	591.8	582.6	573.4
130°	492.4	502.5	512.6	522.7	532.8	542.9	553.0	544.0	535.0	526.0	517.0
132.5°	441.7	450.7	459.7	468.7	477.7	486.7	495.7	487.6	479.5	471.3	463.2
135°	389.1	397.0	404.8	412.7	420.6	428.5	436.4	429.8	423.2	416.7	410.1
137.5°	334.4	342.5	350.7	358.8	366.9	375.0	383.1	376.7	370.4	364.0	357.7
140°	277.8	286.1	294.5	302.8	311.1	319.5	327.8	321.9	316.0	310.0	304.1
142.5°	231.7	238.5	245.3	252.1	258.9	265.7	272.5	268.6	264.6	260.7	256.7
145°	193.5	200.1	206.7	213.3	219.8	226.4	233.0	229.7	226.4	223.1	219.8
147.5°	158.6	164.8	170.9	177.1	183.2	189.4	195.5	192.9	190.2	187.6	185.0
150°	128.4	134.3	140.2	146.1	152.1	158.0	163.9	161.7	159.5	157.3	155.1
152.5°	99.4	104.9	110.3	115.8	121.3	126.8	132.3	130.5	128.8	127.0	125.3
155°	76.3	81.4	86.4	91.5	96.5	101.6	106.6	105.1	103.5	102.0	100.5
157.5°	54.7	59.1	63.4	67.8	72.2	76.6	81.0	79.9	78.8	77.7	76.6
160°	36.9	40.6	44.3	48.0	51.8	55.5	59.2	58.1	57.0	55.9	54.8
162.5°	18.4	21.3	24.1	27.0	29.8	32.7	35.5	34.8	34.2	33.5	32.9
165°	7.3	9.0	10.8	12.5	14.3	16.0	17.8	17.8	17.8	17.8	17.8
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: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1438.4	1439.7	1441.0	1442.3	1443.6	1445.8	1448.0	1450.2	1452.4	1454.6	1456.8
5°	1415.3	1416.0	1416.7	1417.3	1418.0	1420.4	1422.8	1425.2	1427.6	1430.1	1432.5
7.5°	1391.4	1391.6	1391.9	1392.1	1392.3	1394.7	1397.1	1399.5	1401.9	1404.4	1406.8
10°	1365.7	1365.9	1366.2	1366.4	1366.6	1369.5	1372.3	1375.2	1378.0	1380.9	1383.7
12.5°	1345.8	1345.6	1345.3	1345.1	1344.9	1347.5	1350.2	1352.8	1355.4	1358.1	1360.7
15°	1333.7	1333.1	1332.4	1331.8	1331.1	1332.2	1333.3	1334.4	1335.5	1336.5	1337.6
17.5°	1332.1	1330.4	1328.6	1326.9	1325.1	1324.2	1323.3	1322.5	1321.6	1320.7	1319.8
20°	1341.1	1337.6	1334.1	1330.6	1327.1	1323.2	1319.2	1315.3	1311.3	1307.4	1303.4
22.5°	1354.6	1350.2	1345.8	1341.4	1337.0	1330.0	1323.0	1315.9	1308.9	1301.9	1294.9
25°	1371.2	1366.6	1362.0	1357.4	1352.8	1343.1	1333.5	1323.8	1314.2	1304.5	1294.9
27.5°	1387.7	1382.4	1377.1	1371.9	1366.6	1355.4	1344.2	1333.0	1321.8	1310.7	1299.5
30°	1407.0	1400.8	1394.7	1388.5	1382.4	1369.0	1355.6	1342.2	1328.8	1315.5	1302.1
32.5°	1431.1	1423.9	1416.7	1409.4	1402.2	1386.4	1370.6	1354.8	1339.0	1323.2	1307.4
35°	1460.1	1451.6	1443.0	1434.5	1425.9	1407.5	1389.0	1370.6	1352.2	1333.7	1315.3
37.5°	1495.9	1485.8	1475.7	1465.6	1455.5	1434.0	1412.5	1391.0	1369.5	1347.9	1326.4
40°	1542.4	1530.5	1518.7	1506.8	1495.0	1469.8	1444.5	1419.3	1394.1	1368.8	1343.6
42.5°	1598.6	1584.5	1570.5	1556.4	1542.4	1513.0	1483.6	1454.2	1424.8	1395.3	1365.9
45°	1667.9	1652.3	1636.8	1621.2	1605.6	1570.5	1535.4	1500.3	1465.2	1430.0	1394.9
47.5°	1746.7	1728.7	1710.7	1692.7	1674.7	1634.1	1593.5	1552.9	1512.3	1471.7	1431.1
50°	1839.1	1818.2	1797.4	1776.5	1755.7	1709.0	1662.2	1615.5	1568.7	1522.0	1475.2
52.5°	1941.7	1918.9	1896.1	1873.3	1850.5	1796.7	1743.0	1689.2	1635.4	1581.7	1527.9
55°	2053.4	2028.8	2004.3	1979.7	1955.1	1893.9	1832.7	1771.4	1710.2	1649.0	1587.8
57.5°	2167.1	2140.8	2114.4	2088.1	2061.8	1994.0	1926.2	1858.4	1790.6	1722.7	1654.9
60°	2274.4	2247.4	2220.4	2193.4	2166.4	2092.5	2018.5	1944.6	1870.6	1796.7	1722.7
62.5°	2369.4	2342.9	2316.3	2289.8	2263.2	2184.0	2104.8	2025.6	1946.4	1867.1	1787.9
65°	2445.8	2419.9	2394.0	2368.1	2342.2	2259.0	2175.9	2092.7	2009.5	1926.4	1843.2
67.5°	2486.8	2462.0	2437.2	2412.4	2387.6	2302.9	2218.2	2133.5	2048.8	1964.1	1879.4
70°	2488.6	2465.3	2442.0	2418.8	2395.5	2311.0	2226.5	2142.1	2057.6	1973.1	1888.6
72.5°	2443.8	2421.8	2399.9	2377.9	2356.0	2274.4	2192.8	2111.1	2029.5	1947.9	1866.3
75°	2352.7	2332.3	2311.9	2291.5	2271.1	2194.1	2117.1	2040.0	1963.0	1886.0	1809.0
77.5°	2223.1	2204.0	2184.9	2165.8	2146.7	2075.6	2004.5	1933.4	1862.3	1791.2	1720.1
80°	2056.7	2038.7	2020.7	2002.7	1984.7	1920.4	1856.1	1791.8	1727.5	1663.3	1599.0
82.5°	1873.5	1856.4	1839.2	1822.1	1805.0	1748.4	1691.8	1635.2	1578.6	1521.9	1465.3
85°	1688.5	1672.7	1656.9	1641.1	1625.3	1575.5	1525.7	1475.9	1426.1	1376.2	1326.4
87.5°	1518.2	1505.5	1492.8	1480.0	1467.3	1421.9	1376.5	1331.0	1285.6	1240.2	1194.8
90°	1358.7	1346.9	1335.0	1323.2	1311.3	1271.4	1231.4	1191.5	1151.6	1111.6	1071.7
92.5°	1233.7	1222.5	1211.3	1200.1	1188.9	1153.6	1118.2	1082.9	1047.6	1012.2	976.9
95°	1136.5	1126.4	1116.3	1106.2	1096.1	1063.6	1031.1	998.7	966.2	933.7	901.2
97.5°	1059.6	1050.0	1040.3	1030.7	1021.0	990.5	960.0	929.5	899.0	868.5	838.0
100°	998.6	989.4	980.2	971.0	961.8	932.4	903.0	873.6	844.2	814.7	785.3
102.5°	947.3	938.1	928.8	919.6	910.4	881.9	853.4	824.8	796.3	767.8	739.3
105°	908.0	899.2	890.5	881.7	872.9	844.6	816.3	788.0	759.7	731.3	703.0
107.5°	873.3	864.3	855.3	846.3	837.3	809.4	781.6	753.7	725.8	698.0	670.1
110°	840.6	831.4	822.2	813.0	803.8	776.1	748.5	720.8	693.2	665.5	637.9



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	811.9	802.4	793.0	783.5	774.1	746.5	718.8	691.2	663.5	635.9	608.2
115°	780.1	770.2	760.3	750.5	740.6	712.9	685.3	657.6	630.0	602.3	574.7
117.5°	745.4	735.3	725.2	715.1	705.0	677.1	649.3	621.4	593.5	565.7	537.8
120°	707.9	697.8	687.7	677.6	667.5	640.1	612.6	585.2	557.8	530.3	502.9
122.5°	664.5	654.4	644.3	634.2	624.1	597.8	571.4	545.1	518.8	492.4	466.1
125°	616.2	606.3	596.4	586.6	576.7	551.7	526.7	501.6	476.6	451.6	426.6
127.5°	564.1	554.9	545.7	536.5	527.3	504.0	480.8	457.5	434.3	411.0	387.8
130°	508.0	499.0	490.0	481.0	472.0	451.2	430.3	409.5	388.6	367.8	346.9
132.5°	455.1	447.0	438.8	430.7	422.6	402.6	382.7	362.7	342.7	322.8	302.8
135°	403.5	396.9	390.4	383.8	377.2	359.2	341.2	323.2	305.2	287.3	269.3
137.5°	351.3	345.0	338.6	332.3	325.9	310.8	295.6	280.5	265.3	250.2	235.0
140°	298.2	292.3	286.3	280.4	274.5	262.4	250.4	238.3	226.2	214.2	202.1
142.5°	252.8	248.8	244.9	240.9	237.0	226.5	215.9	205.4	194.9	184.3	173.8
145°	216.6	213.3	210.0	206.7	203.4	194.4	185.4	176.4	167.4	158.4	149.4
147.5°	182.3	179.7	177.1	174.4	171.8	164.1	156.4	148.8	141.1	133.4	125.7
150°	153.0	150.8	148.6	146.4	144.2	137.4	130.6	123.8	117.0	110.1	103.3
152.5°	123.5	121.8	120.0	118.3	116.5	111.0	105.5	100.0	94.5	89.1	83.6
155°	98.9	97.4	95.9	94.3	92.8	88.2	83.6	79.0	74.4	69.7	65.1
157.5°	75.5	74.4	73.3	72.2	71.1	66.9	62.8	58.6	54.4	50.3	46.1
160°	53.8	52.7	51.6	50.5	49.4	46.3	43.2	40.2	37.1	34.0	30.9
162.5°	32.2	31.6	30.9	30.3	29.6	28.1	26.5	25.0	23.5	21.9	20.4
165°	17.8	17.8	17.8	17.8	17.8	16.9	16.0	15.2	14.3	13.4	12.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLEDD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1459.0	1461.2	1463.4	1463.6	1463.8	1464.1	1464.3	1464.5	1464.7	1465.0	1465.2
5°	1434.9	1437.3	1439.7	1440.6	1441.5	1442.3	1443.2	1444.1	1445.0	1445.8	1446.7
7.5°	1409.2	1411.6	1414.0	1415.3	1416.6	1418.0	1419.3	1420.6	1421.9	1423.3	1424.6
10°	1386.6	1389.4	1392.3	1393.0	1393.6	1394.3	1394.9	1395.6	1396.2	1396.9	1397.5
12.5°	1363.3	1366.0	1368.6	1368.8	1369.0	1369.3	1369.5	1369.7	1369.9	1370.2	1370.4
15°	1338.7	1339.8	1340.9	1341.1	1341.3	1341.6	1341.8	1342.0	1342.2	1342.5	1342.7
17.5°	1319.0	1318.1	1317.2	1316.3	1315.4	1314.6	1313.7	1312.8	1311.9	1311.1	1310.2
20°	1299.5	1295.5	1291.6	1289.6	1287.6	1285.7	1283.7	1281.7	1279.7	1277.8	1275.8
22.5°	1287.8	1280.8	1273.8	1269.2	1264.6	1260.0	1255.4	1250.7	1246.1	1241.5	1236.9
25°	1285.2	1275.6	1265.9	1257.8	1249.7	1241.5	1233.4	1225.3	1217.2	1209.0	1200.9
27.5°	1288.3	1277.1	1265.9	1253.0	1240.0	1227.1	1214.1	1201.2	1188.2	1175.3	1162.3
30°	1288.7	1275.3	1261.9	1244.8	1227.7	1210.6	1193.5	1176.3	1159.2	1142.1	1125.0
32.5°	1291.6	1275.8	1260.0	1238.7	1217.4	1196.1	1174.8	1153.6	1132.3	1111.0	1089.7
35°	1296.9	1278.4	1260.0	1234.1	1208.2	1182.3	1156.4	1130.5	1104.6	1078.7	1052.8
37.5°	1304.9	1283.4	1261.9	1231.8	1201.8	1171.7	1141.7	1111.6	1081.6	1051.5	1021.5
40°	1318.4	1293.1	1267.9	1234.1	1200.3	1166.5	1132.7	1098.9	1065.1	1031.3	997.5
42.5°	1336.5	1307.1	1277.7	1239.7	1201.8	1163.8	1125.9	1087.9	1050.0	1012.0	974.1
45°	1359.8	1324.7	1289.6	1247.5	1205.3	1163.2	1121.1	1078.9	1036.8	994.7	952.5
47.5°	1390.5	1349.9	1309.3	1262.6	1215.8	1169.1	1122.4	1075.6	1028.9	982.2	935.4
50°	1428.5	1381.7	1335.0	1282.8	1230.6	1178.3	1126.1	1073.9	1021.7	969.4	917.2
52.5°	1474.1	1420.4	1366.6	1308.5	1250.3	1192.2	1134.0	1075.9	1017.7	959.6	901.4
55°	1526.5	1465.3	1404.1	1339.8	1275.5	1211.2	1146.9	1082.7	1018.4	954.1	889.8
57.5°	1587.1	1519.3	1451.5	1379.7	1308.0	1236.2	1164.5	1092.7	1021.0	949.2	877.5
60°	1648.8	1574.8	1500.9	1421.7	1342.5	1263.3	1184.1	1104.8	1025.6	946.4	867.2
62.5°	1708.7	1629.5	1550.3	1463.8	1377.4	1290.9	1204.5	1118.0	1031.6	945.1	858.7
65°	1760.0	1676.9	1593.7	1500.4	1407.2	1313.9	1220.7	1127.4	1034.2	940.9	847.7
67.5°	1794.7	1710.0	1625.3	1526.1	1426.9	1327.8	1228.6	1129.4	1030.2	931.1	831.9
70°	1804.2	1719.7	1635.2	1532.1	1428.9	1325.8	1222.7	1119.5	1016.4	913.3	810.1
72.5°	1784.6	1703.0	1621.4	1516.5	1411.6	1306.7	1201.8	1097.0	992.1	887.2	782.3
75°	1731.9	1654.9	1577.9	1474.1	1370.3	1266.5	1162.7	1059.0	955.2	851.4	747.6
77.5°	1649.0	1577.9	1506.8	1406.7	1306.7	1206.6	1106.6	1006.5	906.5	806.4	706.4
80°	1534.7	1470.4	1406.1	1312.6	1219.1	1125.7	1032.2	938.7	845.2	751.8	658.3
82.5°	1408.7	1352.1	1295.5	1209.5	1123.5	1037.5	951.5	865.4	779.4	693.4	607.4
85°	1276.6	1226.8	1177.0	1098.9	1020.8	942.7	864.6	786.4	708.3	630.2	552.1
87.5°	1149.3	1103.9	1058.5	988.7	918.9	849.2	779.4	709.6	639.8	570.1	500.3
90°	1031.8	991.8	951.9	889.4	826.8	764.3	701.7	639.2	576.6	514.1	451.5
92.5°	941.6	906.2	870.9	814.5	758.1	701.7	645.3	589.0	532.6	476.2	419.8
95°	868.8	836.3	803.8	751.8	699.8	647.8	595.8	543.7	491.7	439.7	387.7
97.5°	807.5	777.0	746.5	698.2	649.9	601.7	553.4	505.1	456.8	408.6	360.3
100°	755.9	726.5	697.1	651.7	606.3	560.8	515.4	470.0	424.6	379.1	333.7
102.5°	710.7	682.2	653.7	610.5	567.2	524.0	480.8	437.5	394.3	351.1	307.8
105°	674.7	646.4	618.1	576.4	534.7	493.0	451.3	409.7	368.0	326.3	284.6
107.5°	642.2	614.4	586.5	546.1	505.8	465.4	425.0	384.7	344.3	303.9	263.6
110°	610.2	582.6	554.9	516.1	477.2	438.4	399.6	360.7	321.9	283.1	244.2



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	580.6	552.9	525.3	487.6	449.8	412.1	374.3	336.6	298.8	261.1	223.3
115°	547.0	519.4	491.7	455.7	419.7	383.8	347.8	311.8	275.8	239.9	203.9
117.5°	509.9	482.1	454.2	420.6	387.1	353.5	319.9	286.4	252.8	219.2	185.7
120°	475.5	448.0	420.6	389.0	357.4	325.8	294.2	262.7	231.1	199.5	167.9
122.5°	439.8	413.4	387.1	357.9	328.7	299.5	270.3	241.2	212.0	182.8	153.6
125°	401.5	376.5	351.5	324.7	298.0	271.2	244.4	217.7	190.9	164.1	137.4
127.5°	364.5	341.3	318.0	293.6	269.3	244.9	220.5	196.2	171.8	147.4	123.1
130°	326.1	305.2	284.4	262.7	241.0	219.2	197.5	175.8	154.1	132.3	110.6
132.5°	282.8	262.9	242.9	224.5	206.0	187.6	169.2	150.7	132.3	113.9	95.4
135°	251.3	233.3	215.3	198.8	182.4	165.9	149.4	133.0	116.5	100.0	83.6
137.5°	219.9	204.7	189.6	174.7	159.8	144.8	129.9	115.0	100.1	85.1	70.2
140°	190.0	178.0	165.9	152.5	139.1	125.7	112.3	99.0	85.6	72.2	58.8
142.5°	163.3	152.7	142.2	130.3	118.5	106.6	94.8	82.9	71.1	59.2	47.4
145°	140.4	131.4	122.4	111.9	101.3	90.8	80.3	69.7	59.2	48.7	38.1
147.5°	118.1	110.4	102.7	93.7	84.7	75.7	66.7	57.7	48.7	39.7	30.7
150°	96.5	89.7	82.9	75.7	68.4	61.2	54.0	46.7	39.5	32.3	25.0
152.5°	78.1	72.6	67.1	61.4	55.7	50.0	44.3	38.6	32.9	27.2	21.5
155°	60.5	55.9	51.3	46.9	42.5	38.1	33.7	29.4	25.0	20.6	16.2
157.5°	41.9	37.8	33.6	30.7	27.9	25.0	22.2	19.3	16.5	13.6	10.8
160°	27.9	24.8	21.7	19.9	18.2	16.4	14.7	12.9	11.2	9.4	7.7
162.5°	18.9	17.3	15.8	14.5	13.2	11.8	10.5	9.2	7.9	6.5	5.2
165°	11.7	10.8	9.9	9.2	8.6	7.9	7.2	6.6	5.9	5.2	4.6
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: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1465.4	1469.6	1473.7	1477.9	1482.1	1486.2	1490.4	1494.6	1498.7	1502.9	1502.5
5°	1447.6	1452.9	1458.1	1463.4	1468.7	1473.9	1479.2	1484.5	1489.7	1495.0	1496.1
7.5°	1425.9	1431.8	1437.7	1443.7	1449.6	1455.5	1461.4	1467.4	1473.3	1479.2	1482.1
10°	1398.2	1405.2	1412.2	1419.3	1426.3	1433.3	1440.3	1447.4	1454.4	1461.4	1465.6
12.5°	1370.6	1378.1	1385.5	1393.0	1400.4	1407.9	1415.3	1422.8	1430.2	1437.7	1443.6
15°	1342.9	1350.6	1358.3	1365.9	1373.6	1381.3	1389.0	1396.6	1404.3	1412.0	1419.7
17.5°	1309.3	1317.2	1325.1	1333.0	1340.9	1348.8	1356.7	1364.6	1372.5	1380.4	1389.8
20°	1273.8	1281.7	1289.6	1297.5	1305.4	1313.3	1321.2	1329.1	1337.0	1344.9	1355.9
22.5°	1232.3	1239.8	1247.2	1254.7	1262.2	1269.6	1277.1	1284.6	1292.0	1299.5	1313.1
25°	1192.8	1200.0	1207.3	1214.5	1221.8	1229.0	1236.3	1243.5	1250.8	1258.0	1273.1
27.5°	1149.4	1156.4	1163.4	1170.5	1177.5	1184.5	1191.5	1198.6	1205.6	1212.6	1229.7
30°	1107.9	1113.8	1119.7	1125.7	1131.6	1137.5	1143.4	1149.4	1155.3	1161.2	1180.5
32.5°	1068.4	1072.6	1076.7	1080.9	1085.1	1089.2	1093.4	1097.6	1101.7	1105.9	1127.8
35°	1026.9	1029.3	1031.7	1034.2	1036.6	1039.0	1041.4	1043.9	1046.3	1048.7	1073.5
37.5°	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	991.4	1019.5
40°	963.7	960.2	956.7	953.2	949.7	946.1	942.6	939.1	935.6	932.1	963.7
42.5°	936.1	928.6	921.2	913.7	906.2	898.8	891.3	883.8	876.4	868.9	904.7
45°	910.4	899.2	888.0	876.8	865.6	854.5	843.3	832.1	820.9	809.7	849.4
47.5°	888.7	873.1	857.5	842.0	826.4	810.8	795.2	779.7	764.1	748.5	792.2
50°	865.0	845.5	825.9	806.4	786.9	767.3	747.8	728.3	708.7	689.2	737.0
52.5°	843.3	819.8	796.3	772.9	749.4	725.9	702.4	679.0	655.5	632.0	683.8
55°	825.5	797.9	770.2	742.6	714.9	687.3	659.6	632.0	604.3	576.7	632.4
57.5°	805.7	774.1	742.5	710.9	679.3	647.8	616.2	584.6	553.0	521.4	581.3
60°	788.0	751.8	715.6	679.4	643.2	606.9	570.7	534.5	498.3	462.1	526.8
62.5°	772.2	732.0	691.9	651.7	611.6	571.4	531.3	491.1	451.0	410.8	479.7
65°	754.4	710.7	667.1	623.4	579.7	536.1	492.4	448.7	405.1	361.4	434.0
67.5°	732.7	686.0	639.2	592.5	545.7	499.0	452.2	405.5	358.7	312.0	387.9
70°	707.0	658.1	609.1	560.2	511.3	462.3	413.4	364.5	315.5	266.6	344.9
72.5°	677.4	626.7	576.0	525.3	474.6	424.0	373.3	322.6	271.9	221.2	301.3
75°	643.8	592.2	540.7	489.1	437.5	386.0	334.4	282.8	231.3	179.7	260.7
77.5°	606.3	554.7	503.2	451.6	400.0	348.5	296.9	245.3	193.8	142.2	222.7
80°	564.8	513.7	462.6	411.4	360.3	309.2	258.1	206.9	155.8	104.7	183.9
82.5°	521.4	471.6	421.8	372.0	322.2	272.3	222.5	172.7	122.9	73.1	149.9
85°	474.0	426.2	378.3	330.5	282.6	234.8	186.9	139.1	91.2	43.4	117.4
87.5°	430.5	384.6	338.8	292.9	247.1	201.2	155.4	109.5	63.7	17.8	88.0
90°	389.0	345.8	302.6	259.3	216.1	172.9	129.7	86.4	43.2	0.0	65.8
92.5°	363.4	323.0	282.6	242.3	201.9	161.5	121.1	80.8	40.4	0.0	61.0
95°	335.7	298.4	261.1	223.8	186.5	149.2	111.9	74.6	37.3	0.0	56.2
97.5°	312.0	277.3	242.7	208.0	173.3	138.7	104.0	69.3	34.7	0.0	51.1
100°	288.3	256.3	224.2	192.2	160.2	128.1	96.1	64.1	32.0	0.0	46.7
102.5°	264.6	235.2	205.8	176.4	147.0	117.6	88.2	58.8	29.4	0.0	42.6
105°	242.9	215.9	188.9	161.9	134.9	108.0	81.0	54.0	27.0	0.0	38.8
107.5°	223.2	198.4	173.6	148.8	124.0	99.2	74.4	49.6	24.8	0.0	35.3
110°	205.4	182.6	159.8	136.9	114.1	91.3	68.5	45.6	22.8	0.0	31.8





TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	185.6	165.0	144.4	123.7	103.1	82.5	61.9	41.2	20.6	0.0	29.0
115°	167.9	149.5	131.0	112.6	94.2	75.7	57.3	38.9	20.4	2.0	28.1
117.5°	152.1	135.4	118.7	102.1	85.4	68.7	52.0	35.4	18.7	2.0	25.5
120°	136.3	121.4	106.5	91.5	76.6	61.7	46.8	31.8	16.9	2.0	23.3
122.5°	124.4	110.8	97.2	83.6	70.0	56.4	42.8	29.2	15.6	2.0	20.9
125°	110.6	98.5	86.5	74.4	62.3	50.3	38.2	26.1	14.1	2.0	18.5
127.5°	98.7	88.0	77.2	66.5	55.7	45.0	34.2	23.5	12.7	2.0	15.8
130°	88.9	79.2	69.6	59.9	50.3	40.6	31.0	21.3	11.7	2.0	13.2
132.5°	77.0	68.7	60.3	52.0	43.7	35.3	27.0	18.7	10.3	2.0	11.0
135°	67.1	59.9	52.6	45.4	38.2	30.9	23.7	16.5	9.2	2.0	8.8
137.5°	55.3	49.4	43.5	37.5	31.6	25.7	19.8	13.8	7.9	2.0	6.8
140°	45.4	40.6	35.8	30.9	26.1	21.3	16.5	11.6	6.8	2.0	5.3
142.5°	35.5	31.8	28.1	24.3	20.6	16.9	13.2	9.4	5.7	2.0	4.2
145°	27.6	24.8	21.9	19.1	16.2	13.4	10.5	7.7	4.8	2.0	3.3
147.5°	21.7	19.5	17.3	15.1	12.9	10.8	8.6	6.4	4.2	2.0	2.9
150°	17.8	16.0	14.3	12.5	10.8	9.0	7.3	5.5	3.8	2.0	2.7
152.5°	15.8	14.3	12.7	11.2	9.7	8.1	6.6	5.1	3.5	2.0	2.4
155°	11.8	10.7	9.6	8.5	7.4	6.4	5.3	4.2	3.1	2.0	2.2
157.5°	7.9	7.2	6.6	5.9	5.3	4.6	4.0	3.3	2.7	2.0	2.0
160°	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4	2.0	2.0
162.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	2.0	2.0
165°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	2.0	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1502.0	1501.6	1501.1	1500.7	1500.2	1499.8	1499.3	1498.9	1500.0	1501.1	1502.2
5°	1497.2	1498.3	1499.4	1500.5	1501.6	1502.7	1503.8	1504.9	1507.3	1509.7	1512.1
7.5°	1484.9	1487.8	1490.6	1493.5	1496.3	1499.2	1502.0	1504.9	1508.6	1512.3	1516.1
10°	1469.7	1473.9	1478.1	1482.2	1486.4	1490.6	1494.7	1498.9	1504.4	1509.9	1515.4
12.5°	1449.5	1455.5	1461.4	1467.3	1473.2	1479.2	1485.1	1491.0	1498.2	1505.5	1512.7
15°	1427.4	1435.1	1442.8	1450.4	1458.1	1465.8	1473.5	1481.2	1490.2	1499.2	1508.2
17.5°	1399.3	1408.7	1418.2	1427.6	1437.1	1446.5	1456.0	1465.4	1476.8	1488.2	1499.6
20°	1366.8	1377.8	1388.8	1399.7	1410.7	1421.7	1432.6	1443.6	1457.6	1471.7	1485.7
22.5°	1326.7	1340.3	1353.9	1367.5	1381.1	1394.7	1408.3	1421.9	1439.7	1457.5	1475.2
25°	1288.3	1303.4	1318.6	1333.7	1348.9	1364.0	1379.2	1394.3	1416.9	1439.5	1462.1
27.5°	1246.8	1263.9	1281.0	1298.2	1315.3	1332.4	1349.5	1366.6	1394.0	1421.5	1448.9
30°	1199.8	1219.1	1238.4	1257.8	1277.1	1296.4	1315.7	1335.0	1367.5	1400.0	1432.4
32.5°	1149.8	1171.7	1193.7	1215.6	1237.6	1259.5	1281.5	1303.4	1341.1	1378.9	1416.6
35°	1098.3	1123.1	1147.9	1172.6	1197.4	1222.2	1247.0	1271.8	1314.4	1356.9	1399.5
37.5°	1047.6	1075.7	1103.8	1131.8	1159.9	1188.0	1216.1	1244.2	1291.8	1339.4	1387.0
40°	995.3	1026.9	1058.5	1090.1	1121.7	1153.3	1184.9	1216.5	1269.4	1322.3	1375.2
42.5°	940.4	976.2	1012.0	1047.7	1083.5	1119.3	1155.0	1190.8	1249.0	1307.1	1365.3
45°	889.1	928.8	968.5	1008.3	1048.0	1087.7	1127.4	1167.1	1231.2	1295.3	1359.3
47.5°	835.8	879.5	923.2	966.8	1010.5	1054.2	1097.8	1141.5	1212.4	1283.3	1354.1
50°	784.9	832.7	880.6	928.4	976.3	1024.1	1072.0	1119.8	1197.7	1275.6	1353.5
52.5°	735.6	787.3	839.1	890.9	942.7	994.4	1046.2	1098.0	1183.8	1269.6	1355.4
55°	688.2	743.9	799.6	855.4	911.1	966.8	1022.6	1078.3	1172.9	1267.4	1362.0
57.5°	641.2	701.1	761.0	820.9	880.8	940.7	1000.6	1060.5	1164.3	1268.1	1371.9
60°	591.6	656.3	721.0	785.8	850.5	915.2	980.0	1044.7	1158.6	1272.5	1386.4
62.5°	548.6	617.5	686.4	755.3	824.2	893.1	962.0	1030.9	1154.4	1278.0	1401.5
65°	506.7	579.3	651.9	724.6	797.2	869.8	942.5	1015.1	1147.9	1280.6	1413.4
67.5°	463.8	539.8	615.7	691.6	767.5	843.5	919.4	995.3	1136.8	1278.4	1419.9
70°	423.3	501.6	579.9	658.3	736.6	814.9	893.3	971.6	1118.8	1266.1	1413.3
72.5°	381.4	461.5	541.6	621.6	701.7	781.8	861.9	942.0	1091.9	1241.8	1391.6
75°	341.6	422.6	503.6	584.5	665.5	746.5	827.4	908.4	1057.0	1205.5	1354.1
77.5°	303.3	383.8	464.3	544.9	625.4	705.9	786.5	867.0	1010.9	1154.9	1298.8
80°	263.1	342.3	421.5	500.8	580.0	659.2	738.4	817.6	953.9	1090.1	1226.4
82.5°	226.7	303.5	380.3	457.1	533.9	610.7	687.5	764.3	891.1	1018.0	1144.8
85°	191.3	265.3	339.2	413.2	487.1	561.1	635.0	709.0	825.3	941.6	1057.9
87.5°	158.2	228.4	298.6	368.9	439.1	509.3	579.5	649.7	755.0	860.4	965.7
90°	131.7	197.5	263.3	329.2	395.0	460.8	526.7	592.5	687.9	783.4	878.8
92.5°	122.0	183.0	244.0	305.0	366.0	427.0	488.0	549.0	635.7	722.4	809.0
95°	112.4	168.5	224.7	280.9	337.1	393.2	449.4	505.6	585.5	665.3	745.2
97.5°	102.2	153.4	204.5	255.6	306.7	357.9	409.0	460.1	534.7	609.3	683.9
100°	93.5	140.2	186.9	233.7	280.4	327.1	373.9	420.6	490.8	561.0	631.3
102.5°	85.1	127.7	170.3	212.8	255.4	298.0	340.5	383.1	449.6	516.1	582.6
105°	77.7	116.5	155.4	194.2	233.1	271.9	310.8	349.6	412.8	476.0	539.2
107.5°	70.7	106.0	141.3	176.7	212.0	247.3	282.7	318.0	379.2	440.4	501.6
110°	63.6	95.5	127.3	159.1	190.9	222.8	254.6	286.4	345.0	403.6	462.1



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	57.9	86.9	115.9	144.8	173.8	202.8	231.7	260.7	316.2	371.7	427.2
115°	54.2	80.3	106.4	132.6	158.7	184.8	210.9	237.0	289.9	342.8	395.6
117.5°	49.0	72.4	95.9	119.4	142.9	166.3	189.8	213.3	263.8	314.2	364.7
120°	44.6	65.8	87.1	108.4	129.7	150.9	172.2	193.5	240.5	287.4	334.4
122.5°	39.7	58.6	77.5	96.3	115.2	134.1	152.9	171.8	215.0	258.3	301.5
125°	34.9	51.4	67.8	84.3	100.7	117.2	133.6	150.1	190.3	230.4	270.6
127.5°	29.6	43.5	57.3	71.1	84.9	98.8	112.6	126.4	163.5	200.6	237.6
130°	24.4	35.6	46.8	57.9	69.1	80.3	91.5	102.7	136.1	169.4	202.8
132.5°	20.0	29.0	38.0	46.9	55.9	64.9	73.9	82.9	112.3	141.7	171.1
135°	15.6	22.4	29.2	36.0	42.8	49.6	56.4	63.2	89.1	115.0	140.9
137.5°	11.6	16.5	21.3	26.1	30.9	35.8	40.6	45.4	68.0	90.6	113.2
140°	8.6	11.9	15.2	18.4	21.7	25.0	28.3	31.6	50.9	70.2	89.5
142.5°	6.4	8.6	10.8	12.9	15.1	17.3	19.5	21.7	37.9	54.2	70.4
145°	4.6	5.9	7.2	8.6	9.9	11.2	12.5	13.8	27.0	40.1	53.3
147.5°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	20.2	30.5	40.8
150°	3.3	4.0	4.6	5.3	5.9	6.6	7.2	7.9	15.4	22.8	30.3
152.5°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	11.2	16.4	21.7
155°	2.4	2.6	2.8	3.1	3.3	3.5	3.7	3.9	7.0	10.1	13.1
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.8	5.5	7.3
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	1.6	1.3	1.1	0.9	0.7	0.4	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: P201393

CATALOG NUMBER: 8LBLELD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1503.3	1504.4	1505.5	1506.6	1507.7	1508.8	1509.2	1509.7	1510.1	1510.6	1511.0
5°	1514.5	1517.0	1519.4	1521.8	1524.2	1526.6	1527.9	1529.2	1530.5	1531.8	1533.2
7.5°	1519.8	1523.5	1527.2	1531.0	1534.7	1538.4	1541.0	1543.7	1546.3	1548.9	1551.6
10°	1520.9	1526.3	1531.8	1537.3	1542.8	1548.3	1552.5	1556.6	1560.8	1565.0	1569.1
12.5°	1520.0	1527.2	1534.5	1541.7	1549.0	1556.2	1561.9	1567.6	1573.3	1579.0	1584.7
15°	1517.2	1526.1	1535.1	1544.1	1553.1	1562.1	1569.6	1577.0	1584.5	1592.0	1599.4
17.5°	1511.0	1522.4	1533.8	1545.2	1556.6	1568.0	1578.1	1588.2	1598.3	1608.4	1618.5
20°	1499.8	1513.8	1527.9	1541.9	1556.0	1570.0	1584.3	1598.5	1612.8	1627.1	1641.3
22.5°	1493.0	1510.8	1528.6	1546.3	1564.1	1581.9	1599.0	1616.1	1633.2	1650.3	1667.5
25°	1484.7	1507.3	1529.9	1552.5	1575.1	1597.7	1617.2	1636.7	1656.3	1675.8	1695.3
27.5°	1476.3	1503.8	1531.2	1558.6	1586.1	1613.5	1635.4	1657.4	1679.3	1701.3	1723.2
30°	1464.9	1497.4	1529.9	1562.3	1594.8	1627.3	1652.1	1676.9	1701.7	1726.5	1751.3
32.5°	1454.4	1492.1	1529.9	1567.6	1605.4	1643.1	1671.0	1698.8	1726.7	1754.6	1782.4
35°	1442.1	1484.6	1527.2	1569.8	1612.3	1654.9	1687.2	1719.4	1751.7	1783.9	1816.2
37.5°	1434.6	1482.3	1529.9	1577.5	1625.1	1672.7	1709.3	1746.0	1782.6	1819.3	1855.9
40°	1428.1	1480.9	1533.8	1586.7	1639.6	1692.5	1734.6	1776.7	1818.9	1861.0	1903.1
42.5°	1423.4	1481.6	1539.7	1597.9	1656.0	1714.2	1763.1	1812.1	1861.0	1909.9	1958.9
45°	1423.4	1487.5	1551.6	1615.6	1679.7	1743.8	1800.0	1856.2	1912.3	1968.5	2024.7
47.5°	1425.0	1495.9	1566.8	1637.6	1708.5	1779.4	1843.5	1907.5	1971.6	2035.7	2099.7
50°	1431.4	1509.2	1587.1	1665.0	1742.9	1820.8	1895.2	1969.6	2044.0	2118.4	2192.7
52.5°	1441.2	1527.0	1612.8	1698.6	1784.4	1870.2	1953.1	2036.1	2119.0	2202.0	2284.9
55°	1456.6	1551.1	1645.7	1740.3	1834.8	1929.4	2022.2	2115.0	2207.9	2300.7	2393.5
57.5°	1475.7	1579.4	1683.2	1787.0	1890.8	1994.6	2096.6	2198.7	2300.7	2402.7	2504.8
60°	1500.3	1614.1	1728.0	1841.9	1955.8	2069.7	2180.9	2292.2	2403.4	2514.7	2625.9
62.5°	1525.0	1648.6	1772.1	1895.6	2019.2	2142.7	2259.4	2376.2	2492.9	2609.7	2726.4
65°	1546.1	1678.9	1811.6	1944.4	2077.1	2209.9	2331.7	2453.5	2575.2	2697.0	2818.8
67.5°	1561.4	1703.0	1844.5	1986.0	2127.6	2269.1	2392.4	2515.7	2639.1	2762.4	2885.7
70°	1560.6	1707.8	1855.1	2002.3	2149.6	2296.8	2419.9	2543.0	2666.1	2789.2	2912.3
72.5°	1541.5	1691.4	1841.3	1991.1	2141.0	2290.9	2411.1	2531.4	2651.6	2771.9	2892.1
75°	1502.6	1651.2	1799.7	1948.3	2096.8	2245.4	2360.8	2476.2	2591.7	2707.1	2822.5
77.5°	1442.8	1586.7	1730.7	1874.6	2018.6	2162.5	2270.9	2379.3	2487.7	2596.1	2704.5
80°	1362.7	1498.9	1635.2	1771.5	1907.7	2044.0	2143.8	2243.7	2343.5	2443.4	2543.2
82.5°	1271.6	1398.5	1525.3	1652.1	1779.0	1905.8	1996.4	2087.0	2177.7	2268.3	2358.9
85°	1174.2	1290.5	1406.8	1523.1	1639.4	1755.7	1837.8	1919.8	2001.9	2084.0	2166.0
87.5°	1071.0	1176.4	1281.7	1387.0	1492.4	1597.7	1671.0	1744.3	1817.6	1890.9	1964.1
90°	974.3	1069.7	1165.2	1260.6	1356.1	1451.5	1517.8	1584.0	1650.3	1716.6	1782.8
92.5°	895.7	982.4	1069.1	1155.7	1242.4	1329.1	1390.3	1451.5	1512.8	1574.0	1635.2
95°	825.1	904.9	984.8	1064.7	1144.5	1224.4	1282.1	1339.8	1397.5	1455.2	1513.0
97.5°	758.5	833.2	907.8	982.4	1057.0	1131.6	1185.8	1240.0	1294.2	1348.4	1402.6
100°	701.5	771.7	841.9	912.2	982.4	1052.6	1105.0	1157.5	1209.9	1262.4	1314.8
102.5°	649.1	715.5	782.0	848.5	915.0	981.5	1032.8	1084.2	1135.5	1186.9	1238.2
105°	602.4	665.5	728.7	791.9	855.1	918.3	968.8	1019.2	1069.7	1120.2	1170.6
107.5°	562.8	624.1	685.3	746.5	807.7	868.9	917.8	966.8	1015.7	1064.6	1113.6
110°	520.7	579.3	637.9	696.4	755.0	813.6	861.9	910.2	958.4	1006.7	1055.0



TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	482.7	538.3	593.8	649.3	704.8	760.3	807.5	854.7	901.8	949.0	996.2
115°	448.5	501.4	554.3	607.1	660.0	712.9	757.9	802.9	847.9	892.9	937.8
117.5°	415.2	465.6	516.1	566.6	617.0	667.5	710.5	753.5	796.5	839.5	882.6
120°	381.4	428.3	475.3	522.3	569.2	616.2	658.1	700.0	741.9	783.8	825.8
122.5°	344.7	388.0	431.2	474.4	517.7	560.9	602.1	643.4	684.6	725.9	767.1
125°	310.7	350.9	391.0	431.2	471.3	511.5	550.6	589.6	628.7	667.7	706.8
127.5°	274.7	311.8	348.9	385.9	423.0	460.1	496.1	532.1	568.1	604.1	640.0
130°	236.1	269.5	302.8	336.2	369.5	402.9	436.0	469.2	502.3	535.4	568.6
132.5°	200.5	230.0	259.4	288.8	318.2	347.6	379.0	410.4	441.7	473.1	504.5
135°	166.8	192.6	218.5	244.4	270.3	296.2	326.0	355.9	385.7	415.6	445.4
137.5°	135.8	158.4	181.0	203.6	226.2	248.8	276.2	303.7	331.1	358.5	386.0
140°	108.8	128.2	147.5	166.8	186.1	205.4	228.7	251.9	275.2	298.4	321.7
142.5°	86.7	102.9	119.2	135.4	151.7	167.9	187.6	207.4	227.1	246.9	266.6
145°	66.5	79.6	92.8	106.0	119.1	132.3	149.0	165.7	182.3	199.0	215.7
147.5°	51.1	61.5	71.8	82.1	92.4	102.7	116.5	130.3	144.2	158.0	171.8
150°	37.7	45.2	52.6	60.1	67.5	75.0	86.4	97.8	109.2	120.6	132.1
152.5°	27.0	32.2	37.5	42.8	48.0	53.3	62.1	70.9	79.6	88.4	97.2
155°	16.2	19.3	22.4	25.4	28.5	31.6	38.6	45.6	52.7	59.7	66.7
157.5°	9.0	10.8	12.5	14.3	16.0	17.8	22.6	27.4	32.3	37.1	41.9
160°	4.6	5.3	5.9	6.6	7.2	7.9	10.8	13.6	16.5	19.3	22.2
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.3	4.6	5.9	7.2	8.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1
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: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1511.5	1511.9	1512.4	1512.8	1511.3	1509.7	1508.2	1506.6	1505.1	1503.5	1502.0
5°	1534.5	1535.8	1537.1	1538.4	1538.0	1537.5	1537.1	1536.7	1536.2	1535.8	1535.4
7.5°	1554.2	1556.8	1559.5	1562.1	1562.3	1562.5	1562.8	1563.0	1563.2	1563.4	1563.7
10°	1573.3	1577.5	1581.6	1585.8	1586.2	1586.7	1587.1	1587.6	1588.0	1588.5	1588.9
12.5°	1590.4	1596.1	1601.8	1607.5	1608.6	1609.7	1610.8	1611.9	1613.0	1614.1	1615.2
15°	1606.9	1614.4	1621.8	1629.3	1631.5	1633.7	1635.9	1638.1	1640.2	1642.4	1644.6
17.5°	1628.6	1638.7	1648.8	1658.9	1662.6	1666.4	1670.1	1673.8	1677.6	1681.3	1685.0
20°	1655.6	1669.9	1684.1	1698.4	1703.0	1707.6	1712.2	1716.8	1721.5	1726.1	1730.7
22.5°	1684.6	1701.7	1718.8	1735.9	1741.2	1746.4	1751.7	1757.0	1762.2	1767.5	1772.8
25°	1714.8	1734.4	1753.9	1773.4	1779.5	1785.7	1791.8	1798.0	1804.1	1810.3	1816.4
27.5°	1745.2	1767.1	1789.1	1811.0	1818.7	1826.4	1834.0	1841.7	1849.4	1857.1	1864.7
30°	1776.1	1800.9	1825.7	1850.5	1859.7	1868.9	1878.1	1887.3	1896.6	1905.8	1915.0
32.5°	1810.3	1838.2	1866.0	1893.9	1904.7	1915.4	1926.2	1936.9	1947.7	1958.4	1969.2
35°	1848.4	1880.7	1912.9	1945.2	1958.2	1971.1	1984.1	1997.0	2010.0	2022.9	2035.9
37.5°	1892.6	1929.2	1965.9	2002.5	2018.5	2034.5	2050.6	2066.6	2082.6	2098.6	2114.7
40°	1945.2	1987.4	2029.5	2071.6	2090.7	2109.8	2128.9	2148.0	2167.1	2186.2	2205.3
42.5°	2007.8	2056.7	2105.7	2154.6	2176.5	2198.5	2220.4	2242.4	2264.3	2286.3	2308.2
45°	2080.9	2137.0	2193.2	2249.4	2274.6	2299.9	2325.1	2350.3	2375.6	2400.8	2426.0
47.5°	2163.8	2227.9	2291.9	2356.0	2385.8	2415.7	2445.5	2475.4	2505.2	2535.1	2564.9
50°	2267.1	2341.5	2415.9	2490.3	2523.0	2555.7	2588.4	2621.1	2653.8	2686.5	2719.2
52.5°	2367.9	2450.8	2533.8	2616.7	2654.0	2691.3	2728.6	2765.9	2803.2	2840.5	2877.8
55°	2486.3	2579.2	2672.0	2764.8	2805.0	2845.1	2885.3	2925.4	2965.6	3005.7	3045.9
57.5°	2606.8	2708.8	2810.9	2912.9	2955.7	2998.5	3041.3	3084.1	3126.8	3169.6	3212.4
60°	2737.2	2848.4	2959.7	3070.9	3113.5	3156.0	3198.6	3241.2	3283.7	3326.3	3368.9
62.5°	2843.2	2959.9	3076.7	3193.4	3237.1	3280.7	3324.4	3368.1	3411.7	3455.4	3499.1
65°	2940.6	3062.3	3184.1	3305.9	3347.8	3389.7	3431.6	3473.5	3515.5	3557.4	3599.3
67.5°	3009.0	3132.4	3255.7	3379.0	3419.4	3459.8	3500.1	3540.5	3580.9	3621.3	3661.6
70°	3035.4	3158.5	3281.6	3404.7	3442.4	3480.2	3517.9	3555.7	3593.4	3631.2	3668.9
72.5°	3012.4	3132.6	3252.9	3373.1	3409.3	3445.5	3481.7	3517.9	3554.1	3590.3	3626.5
75°	2937.9	3053.4	3168.8	3284.2	3318.4	3352.7	3386.9	3421.1	3455.4	3489.6	3523.8
77.5°	2812.9	2921.3	3029.7	3138.1	3170.6	3203.1	3235.5	3268.0	3300.5	3333.0	3365.4
80°	2643.1	2742.9	2842.8	2942.6	2973.8	3004.9	3036.1	3067.2	3098.4	3129.5	3160.7
82.5°	2449.5	2540.2	2630.8	2721.4	2751.0	2780.6	2810.3	2839.9	2869.5	2899.1	2928.8
85°	2248.1	2330.2	2412.2	2494.3	2521.3	2548.3	2575.3	2602.3	2629.2	2656.2	2683.2
87.5°	2037.4	2110.7	2184.0	2257.3	2283.6	2310.0	2336.3	2362.6	2389.0	2415.3	2441.6
90°	1849.1	1915.4	1981.6	2047.9	2072.9	2097.9	2123.0	2148.0	2173.0	2198.0	2223.1
92.5°	1696.4	1757.7	1818.9	1880.1	1903.1	1926.2	1949.2	1972.2	1995.3	2018.3	2041.3
95°	1570.7	1628.4	1686.1	1743.8	1764.9	1785.9	1807.0	1828.1	1849.1	1870.2	1891.3
97.5°	1456.8	1511.0	1565.2	1619.4	1640.0	1660.6	1681.3	1701.9	1722.5	1743.1	1763.8
100°	1367.3	1419.7	1472.2	1524.6	1544.6	1564.5	1584.5	1604.5	1624.4	1644.4	1664.4
102.5°	1289.6	1340.9	1392.3	1443.6	1463.1	1482.7	1502.2	1521.7	1541.3	1560.8	1580.3
105°	1221.1	1271.6	1322.0	1372.5	1392.0	1411.6	1431.1	1450.6	1470.2	1489.7	1509.2
107.5°	1162.5	1211.4	1260.4	1309.3	1328.6	1347.9	1367.2	1386.5	1405.9	1425.2	1444.5
110°	1103.3	1151.5	1199.8	1248.1	1267.0	1285.9	1304.7	1323.6	1342.5	1361.4	1380.2



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**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1043.4	1090.5	1137.7	1184.9	1203.8	1222.7	1241.5	1260.4	1279.3	1298.2	1317.0
115°	982.8	1027.8	1072.8	1117.8	1136.4	1155.1	1173.7	1192.4	1211.0	1229.7	1248.3
117.5°	925.6	968.6	1011.6	1054.6	1072.2	1089.7	1107.3	1124.8	1142.4	1159.9	1177.5
120°	867.7	909.6	951.5	993.4	1010.1	1026.8	1043.4	1060.1	1076.8	1093.5	1110.1
122.5°	808.4	849.6	890.9	932.1	948.3	964.6	980.8	997.1	1013.3	1029.6	1045.8
125°	745.8	784.9	823.9	863.0	879.5	895.9	912.4	928.8	945.3	961.7	978.2
127.5°	676.0	712.0	748.0	784.0	800.2	816.5	832.7	849.0	865.2	881.5	897.7
130°	601.7	634.8	668.0	701.1	715.8	730.5	745.2	759.9	774.6	789.3	804.0
132.5°	535.9	567.2	598.6	630.0	642.3	654.6	666.9	679.2	691.4	703.7	716.0
135°	475.3	505.1	535.0	564.8	575.3	585.9	596.4	606.9	617.5	628.0	638.5
137.5°	413.4	440.8	468.3	495.7	506.0	516.3	526.6	536.9	547.3	557.6	567.9
140°	344.9	368.2	391.4	414.7	426.1	437.5	448.9	460.3	471.8	483.2	494.6
142.5°	286.4	306.1	325.9	345.6	356.4	367.1	377.9	388.6	399.4	410.1	420.9
145°	232.4	249.0	265.7	282.4	293.2	303.9	314.7	325.4	336.2	346.9	357.7
147.5°	185.6	199.5	213.3	227.1	237.4	247.7	258.0	268.3	278.7	289.0	299.3
150°	143.5	154.9	166.3	177.7	187.4	197.0	206.7	216.3	226.0	235.6	245.3
152.5°	106.0	114.7	123.5	132.3	141.5	150.7	160.0	169.2	178.4	187.6	196.9
155°	73.7	80.8	87.8	94.8	102.9	111.0	119.2	127.3	135.4	143.5	151.7
157.5°	46.7	51.6	56.4	61.2	68.0	74.8	81.6	88.4	95.2	102.0	108.8
160°	25.0	27.9	30.7	33.6	39.1	44.6	50.0	55.5	61.0	66.5	71.9
162.5°	9.9	11.2	12.5	13.8	17.3	20.8	24.3	27.8	31.4	34.9	38.4
165°	1.3	1.6	1.8	2.0	4.0	5.9	7.9	9.9	11.8	13.8	15.8
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: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	1481.2	1481.2
2.5°	1500.4	1498.9
5°	1534.9	1534.5
7.5°	1563.9	1564.1
10°	1589.4	1589.8
12.5°	1616.3	1617.4
15°	1646.8	1649.0
17.5°	1688.8	1692.5
20°	1735.3	1739.9
22.5°	1778.0	1783.3
25°	1822.6	1828.7
27.5°	1872.4	1880.1
30°	1924.2	1933.4
32.5°	1979.9	1990.7
35°	2048.8	2061.8
37.5°	2130.7	2146.7
40°	2224.4	2243.5
42.5°	2330.2	2352.1
45°	2451.3	2476.5
47.5°	2594.8	2624.6
50°	2751.9	2784.6
52.5°	2915.1	2952.4
55°	3086.0	3126.2
57.5°	3255.2	3298.0
60°	3411.4	3454.0
62.5°	3542.7	3586.4
65°	3641.2	3683.1
67.5°	3702.0	3742.4
70°	3706.7	3744.4
72.5°	3662.7	3698.9
75°	3558.1	3592.3
77.5°	3397.9	3430.4
80°	3191.8	3223.0
82.5°	2958.4	2988.0
85°	2710.2	2737.2
87.5°	2468.0	2494.3
90°	2248.1	2273.1
92.5°	2064.4	2087.4
95°	1912.3	1933.4
97.5°	1784.4	1805.0
100°	1684.3	1704.3
102.5°	1599.9	1619.4
105°	1528.8	1548.3
107.5°	1463.8	1483.1
110°	1399.1	1418.0





TEST NUMBER: P201393

CATALOG NUMBER: 8LBLED-LD4-12-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1335.9	1354.8
115°	1267.0	1285.6
117.5°	1195.0	1212.6
120°	1126.8	1143.5
122.5°	1062.1	1078.3
125°	994.6	1011.1
127.5°	914.0	930.2
130°	818.7	833.4
132.5°	728.3	740.6
135°	649.1	659.6
137.5°	578.2	588.5
140°	506.0	517.4
142.5°	431.6	442.4
145°	368.4	379.2
147.5°	309.6	319.9
150°	254.9	264.6
152.5°	206.1	215.3
155°	159.8	167.9
157.5°	115.6	122.4
160°	77.4	82.9
162.5°	41.9	45.4
165°	17.7	19.7
167.5°	0.0	0.0
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)