

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: P201390

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28239)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLED-LD4-10-ASYMF-UNV-L835-CD2-U
Description: 8 ft. Low Bay Linear, 7000 lm, Frst Asym lens, 3.5K
Light Source: (616) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
(OT50W01080CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10720.8 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.79
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

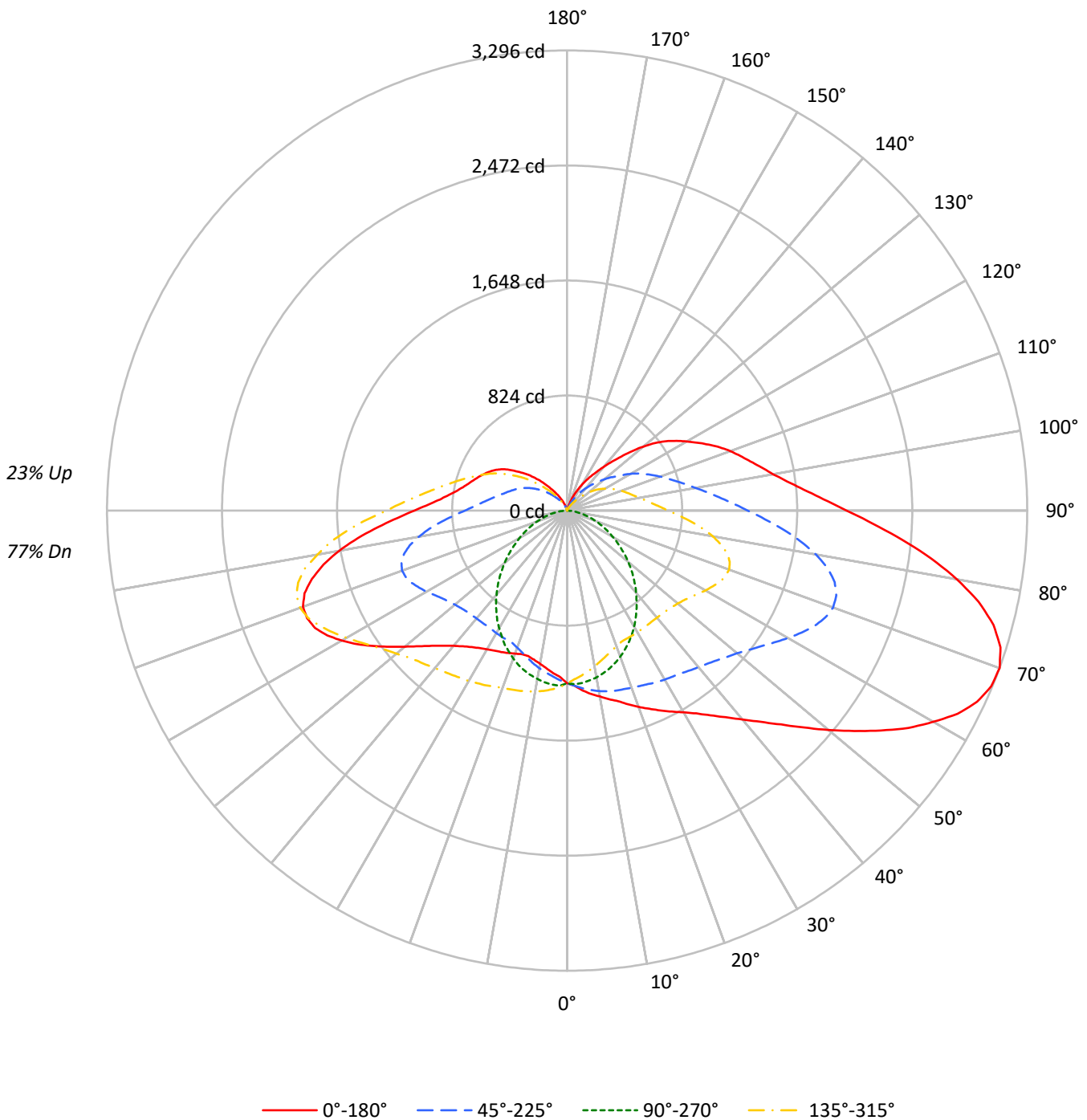
Input Watts (W): 75.28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9965	9965	9965	9965
5°	9439	9996	8514	10092
10°	9068	9878	7472	9975
15°	8838	9703	6744	9818
20°	8829	9461	6432	9579
25°	8884	9157	6287	9296
30°	9032	8793	6210	8920
35°	9403	8367	6269	8539
40°	10041	7916	6504	8099
45°	10993	7441	6950	7616
50°	12330	6916	7650	7133
55°	13877	6363	8546	6577
60°	15447	5807	9509	6081
65°	16829	5298	10345	5583
70°	17559	4749	10728	5055
75°	17424	4049	10432	4500
80°	16320	3287	9546	3845
85°	14623	2117	8237	2965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.1
10°-20°	342.4	3.2
20°-30°	552.8	5.2
30°-40°	750.6	7.0
40°-50°	966.2	9.0
50°-60°	1237.4	11.5
60°-70°	1512.9	14.1
70°-80°	1542.0	14.4
80°-90°	1203.9	11.2
90°-100°	839.1	7.8
100°-110°	624.1	5.8
110°-120°	463.9	4.3
120°-130°	309.8	2.9
130°-140°	166.8	1.6
140°-150°	69.4	0.6
150°-160°	20.1	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1012.6	9.4
0°-40°	1763.2	16.4
0°-60°	3966.9	37.0
0°-90°	8225.6	76.7
90°-120°	1927.1	18.0
90°-150°	2473.1	23.1
90°-180°	2495.0	23.3
0°-180°	10720.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1237	1237	1237	1237	1237	
5°	1294	1239	1168	1251	1294	125
15°	1413	1171	1078	1185	1413	404
25°	1580	1043	1118	1058	1580	734
35°	1790	866	1193	884	1790	1132
45°	2166	670	1370	686	2166	1693
55°	2745	470	1691	486	2745	2466
65°	3241	293	1992	309	3241	3189
75°	3162	143	1893	159	3162	3304
85°	2410	30	1358	42	2410	2057
90°	2002	0	1094	2	2002	1101
95°	1703	0	914	2	1703	1351
105°	1360	0	735	2	1360	1444
115°	1118	0	638	2	1118	1111
125°	866	0	511	2	866	774
135°	547	0	335	2	547	432
145°	303	0	176	2	303	195
155°	139	0	71	2	139	67
165°	18	0	12	2	18	8
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1256.7	1256.5	1256.3	1256.0	1255.8	1255.6	1255.4	1255.1	1254.9	1254.7	1254.9
5°	1294.3	1293.0	1291.7	1290.3	1289.0	1287.7	1286.4	1285.0	1283.7	1282.4	1282.0
7.5°	1326.0	1324.0	1322.0	1320.1	1318.1	1316.1	1314.1	1312.2	1310.2	1308.2	1306.9
10°	1351.8	1349.8	1347.8	1345.9	1343.9	1341.9	1339.9	1338.0	1336.0	1334.0	1331.6
12.5°	1383.5	1380.6	1377.8	1374.9	1372.0	1369.2	1366.3	1363.4	1360.6	1357.7	1354.2
15°	1413.2	1410.1	1407.0	1404.0	1400.9	1397.8	1394.7	1391.7	1388.6	1385.5	1380.0
17.5°	1454.9	1450.5	1446.1	1441.7	1437.3	1432.8	1428.4	1424.0	1419.6	1415.2	1407.1
20°	1496.5	1491.0	1485.5	1480.0	1474.5	1468.9	1463.4	1457.9	1452.4	1446.9	1436.1
22.5°	1536.1	1529.7	1523.3	1517.0	1510.6	1504.2	1497.8	1491.5	1485.1	1478.7	1465.5
25°	1579.7	1572.4	1565.2	1557.9	1550.6	1543.4	1536.1	1528.8	1521.6	1514.3	1498.4
27.5°	1623.3	1614.9	1606.6	1598.2	1589.8	1581.5	1573.1	1564.7	1556.4	1548.0	1529.9
30°	1668.9	1659.7	1650.4	1641.2	1631.9	1622.7	1613.4	1604.2	1594.9	1585.7	1564.8
32.5°	1722.4	1711.8	1701.3	1690.7	1680.1	1669.6	1659.0	1648.4	1637.9	1627.3	1603.1
35°	1789.8	1776.6	1763.4	1750.2	1737.0	1723.7	1710.5	1697.3	1684.1	1670.9	1643.4
37.5°	1865.2	1849.8	1834.4	1818.9	1803.5	1788.1	1772.7	1757.2	1741.8	1726.4	1694.9
40°	1952.4	1934.6	1916.7	1898.9	1881.0	1863.2	1845.3	1827.5	1809.6	1791.8	1755.5
42.5°	2051.5	2031.0	2010.5	1990.0	1969.5	1949.1	1928.6	1908.1	1887.6	1867.1	1824.8
45°	2166.4	2143.1	2119.7	2096.4	2073.0	2049.7	2026.3	2003.0	1979.6	1956.3	1907.4
47.5°	2299.2	2272.3	2245.5	2218.6	2191.7	2164.9	2138.0	2111.1	2084.3	2057.4	2001.2
50°	2443.9	2413.5	2383.1	2352.7	2322.3	2292.0	2261.6	2231.2	2200.8	2170.4	2105.9
52.5°	2592.6	2559.8	2527.0	2494.2	2461.4	2428.5	2395.7	2362.9	2330.1	2297.3	2224.2
55°	2745.2	2710.6	2676.0	2641.5	2606.9	2572.3	2537.7	2503.2	2468.6	2434.0	2351.9
57.5°	2897.8	2861.5	2825.1	2788.8	2752.5	2716.1	2679.8	2643.5	2607.1	2570.8	2480.5
60°	3026.7	2991.0	2955.3	2919.7	2884.0	2848.3	2812.6	2777.0	2741.3	2705.6	2607.8
62.5°	3153.5	3117.2	3080.8	3044.5	3008.2	2971.8	2935.5	2899.2	2862.8	2826.5	2722.8
65°	3240.7	3205.5	3170.2	3135.0	3099.8	3064.5	3029.3	2994.1	2958.8	2923.6	2815.9
67.5°	3288.3	3255.3	3222.2	3189.2	3156.2	3123.1	3090.1	3057.1	3024.0	2991.0	2881.1
70°	3296.2	3264.7	3233.2	3201.7	3170.2	3138.8	3107.3	3075.8	3044.3	3012.8	2903.3
72.5°	3254.6	3224.7	3194.7	3164.8	3134.8	3104.9	3074.9	3045.0	3015.0	2985.1	2878.1
75°	3161.5	3133.1	3104.7	3076.3	3047.9	3019.4	2991.0	2962.6	2934.2	2905.8	2803.4
77.5°	3018.7	2991.4	2964.1	2936.8	2909.5	2882.2	2854.9	2827.6	2800.3	2773.0	2677.4
80°	2836.4	2810.6	2784.9	2759.1	2733.3	2707.6	2681.8	2656.0	2630.3	2604.5	2516.2
82.5°	2630.3	2606.1	2581.8	2557.6	2533.4	2509.1	2484.9	2460.7	2436.4	2412.2	2331.6
85°	2410.2	2387.3	2364.4	2341.5	2318.6	2295.7	2272.8	2249.9	2227.0	2204.1	2131.9
87.5°	2194.2	2172.8	2151.5	2130.1	2108.7	2087.4	2066.0	2044.6	2023.3	2001.9	1936.9
90°	2001.9	1981.4	1960.9	1940.5	1920.0	1899.5	1879.0	1858.6	1838.1	1817.6	1759.2
92.5°	1837.4	1818.5	1799.5	1780.6	1761.7	1742.7	1723.8	1704.9	1685.9	1667.0	1613.5
95°	1702.6	1684.3	1666.0	1647.8	1629.5	1611.2	1592.9	1574.7	1556.4	1538.1	1488.5
97.5°	1589.6	1572.2	1554.8	1537.4	1520.0	1502.7	1485.3	1467.9	1450.5	1433.1	1386.0
100°	1498.5	1481.3	1464.1	1447.0	1429.8	1412.6	1395.4	1378.3	1361.1	1343.9	1298.3
102.5°	1425.1	1408.1	1391.2	1374.2	1357.3	1340.3	1323.4	1306.4	1289.5	1272.5	1227.8
105°	1359.7	1343.0	1326.2	1309.5	1292.8	1276.0	1259.3	1242.6	1225.8	1209.1	1164.8
107.5°	1300.3	1283.6	1266.8	1250.1	1233.3	1216.6	1199.8	1183.1	1166.3	1149.6	1106.2
110°	1244.8	1227.8	1210.9	1193.9	1176.9	1160.0	1143.0	1126.0	1109.1	1092.1	1049.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1183.3	1166.6	1149.8	1133.1	1116.4	1099.6	1082.9	1066.2	1049.4	1032.7	991.5
115°	1117.9	1101.4	1084.9	1068.3	1051.8	1035.3	1018.8	1002.2	985.7	969.2	930.2
117.5°	1052.5	1036.9	1021.2	1005.6	990.0	974.3	958.7	943.1	927.4	911.8	874.4
120°	989.1	974.3	959.6	944.8	930.1	915.3	900.6	885.8	871.1	856.3	819.7
122.5°	929.6	915.5	901.4	887.3	873.2	859.2	845.1	831.0	816.9	802.8	766.2
125°	866.2	852.3	838.4	824.6	810.7	796.8	782.9	769.1	755.2	741.3	706.3
127.5°	794.8	781.4	767.9	754.5	741.1	727.6	714.2	700.8	687.3	673.9	642.2
130°	713.6	700.8	688.0	675.3	662.5	649.7	636.9	624.2	611.4	598.6	570.9
132.5°	630.3	619.3	608.3	597.3	586.3	575.2	564.2	553.2	542.2	531.2	506.5
135°	547.1	538.1	529.0	520.0	511.0	501.9	492.9	483.9	474.8	465.8	444.7
137.5°	473.7	466.4	459.2	451.9	444.6	437.4	430.1	422.8	415.6	408.3	389.8
140°	410.3	403.9	397.5	391.1	384.7	378.4	372.0	365.6	359.2	352.8	336.9
142.5°	352.8	347.5	342.2	336.9	331.6	326.4	321.1	315.8	310.5	305.2	291.3
145°	303.3	298.9	294.5	290.1	285.7	281.2	276.8	272.4	268.0	263.6	251.3
147.5°	259.7	255.7	251.8	247.8	243.8	239.9	235.9	231.9	228.0	224.0	213.0
150°	216.0	212.5	209.0	205.4	201.9	198.4	194.9	191.3	187.8	184.3	174.8
152.5°	176.4	173.3	170.2	167.2	164.1	161.0	157.9	154.9	151.8	148.7	140.5
155°	138.7	136.1	133.4	130.8	128.2	125.5	122.9	120.3	117.6	115.0	107.9
157.5°	103.1	100.9	98.7	96.5	94.3	92.0	89.8	87.6	85.4	83.2	77.3
160°	69.4	67.6	65.9	64.1	62.3	60.6	58.8	57.0	55.3	53.5	49.1
162.5°	41.6	40.1	38.5	37.0	35.4	33.9	32.3	30.8	29.2	27.7	25.1
165°	17.8	16.9	16.0	15.2	14.3	13.4	12.5	11.7	10.8	9.9	8.8
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



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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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1255.1	1255.4	1255.6	1255.8	1256.0	1256.3	1256.5	1256.7	1254.7	1252.7	1250.7
5°	1281.5	1281.1	1280.7	1280.2	1279.8	1279.4	1278.9	1278.5	1275.0	1271.4	1267.9
7.5°	1305.6	1304.2	1302.9	1301.6	1300.3	1298.9	1297.6	1296.3	1291.0	1285.7	1280.4
10°	1329.2	1326.7	1324.3	1321.9	1319.5	1317.0	1314.6	1312.2	1305.1	1298.1	1291.0
12.5°	1350.7	1347.1	1343.6	1340.1	1336.6	1333.0	1329.5	1326.0	1317.0	1308.0	1298.9
15°	1374.5	1369.0	1363.5	1357.9	1352.4	1346.9	1341.4	1335.9	1324.9	1313.9	1302.9
17.5°	1398.9	1390.8	1382.6	1374.5	1366.3	1358.2	1350.0	1341.9	1329.1	1316.3	1303.6
20°	1425.3	1414.5	1403.7	1393.0	1382.2	1371.4	1360.6	1349.8	1334.4	1319.0	1303.6
22.5°	1452.3	1439.0	1425.8	1412.6	1399.4	1386.1	1372.9	1359.7	1341.2	1322.7	1304.2
25°	1482.6	1466.7	1450.9	1435.0	1419.2	1403.3	1387.5	1371.6	1349.8	1328.0	1306.2
27.5°	1511.9	1493.8	1475.8	1457.7	1439.7	1421.6	1403.6	1385.5	1359.5	1333.5	1307.5
30°	1543.9	1522.9	1502.0	1481.1	1460.2	1439.2	1418.3	1397.4	1367.4	1337.5	1307.5
32.5°	1578.9	1554.6	1530.4	1506.2	1482.0	1457.7	1433.5	1409.3	1375.4	1341.5	1307.5
35°	1615.9	1588.3	1560.8	1533.3	1505.8	1478.2	1450.7	1423.2	1385.1	1347.0	1308.9
37.5°	1663.4	1631.9	1600.4	1569.0	1537.5	1506.0	1474.5	1443.0	1400.3	1357.5	1314.8
40°	1719.1	1682.8	1646.5	1610.1	1573.8	1537.5	1501.1	1464.8	1417.7	1370.5	1323.4
42.5°	1782.5	1740.3	1698.0	1655.7	1613.4	1571.2	1528.9	1486.6	1434.6	1382.6	1330.7
45°	1858.5	1809.6	1760.7	1711.9	1663.0	1614.1	1565.2	1516.3	1458.8	1401.3	1343.9
47.5°	1945.1	1888.9	1832.8	1776.6	1720.5	1664.3	1608.2	1552.0	1488.6	1425.1	1361.7
50°	2041.3	1976.8	1912.3	1847.7	1783.2	1718.7	1654.1	1589.6	1519.8	1450.0	1380.2
52.5°	2151.1	2077.9	2004.8	1931.7	1858.6	1785.4	1712.3	1639.2	1562.3	1485.5	1408.6
55°	2269.7	2187.6	2105.4	2023.3	1941.1	1859.0	1776.8	1694.7	1609.9	1525.1	1440.3
57.5°	2390.2	2299.9	2209.6	2119.3	2029.0	1938.7	1848.4	1758.1	1664.7	1571.3	1478.0
60°	2510.0	2412.2	2314.4	2216.7	2118.9	2021.1	1923.3	1825.5	1723.5	1621.6	1519.6
62.5°	2619.0	2515.3	2411.6	2307.8	2204.1	2100.4	1996.6	1892.9	1782.1	1671.3	1560.6
65°	2708.2	2600.5	2492.8	2385.2	2277.5	2169.8	2062.1	1954.4	1835.5	1716.5	1597.6
67.5°	2771.2	2661.3	2551.4	2441.5	2331.6	2221.7	2111.8	2001.9	1875.9	1750.0	1624.0
70°	2793.9	2684.4	2575.0	2465.5	2356.1	2246.6	2137.2	2027.7	1896.9	1766.1	1635.2
72.5°	2771.0	2664.0	2556.9	2449.9	2342.8	2235.8	2128.7	2021.7	1888.9	1756.1	1623.3
75°	2701.0	2598.6	2496.2	2393.7	2291.3	2188.9	2086.5	1984.1	1852.2	1720.3	1588.3
77.5°	2581.8	2486.2	2390.6	2295.1	2199.5	2103.9	2008.3	1912.7	1784.7	1656.8	1528.8
80°	2427.9	2339.6	2251.3	2162.9	2074.6	1986.3	1898.0	1809.7	1688.3	1567.0	1445.6
82.5°	2251.0	2170.4	2089.8	2009.2	1928.6	1848.0	1767.4	1686.8	1574.5	1462.2	1349.8
85°	2059.6	1987.4	1915.2	1842.9	1770.7	1698.5	1626.2	1554.0	1450.9	1347.8	1244.8
87.5°	1872.0	1807.0	1742.0	1677.1	1612.1	1547.1	1482.2	1417.2	1324.0	1230.9	1137.7
90°	1700.9	1642.5	1584.1	1525.8	1467.4	1409.0	1350.7	1292.3	1207.5	1122.7	1037.9
92.5°	1560.0	1506.4	1452.9	1399.4	1345.9	1292.3	1238.8	1185.3	1107.6	1029.8	952.1
95°	1439.0	1389.4	1339.9	1290.3	1240.8	1191.2	1141.7	1092.1	1020.5	949.0	877.4
97.5°	1338.8	1291.7	1244.6	1197.4	1150.3	1103.2	1056.0	1008.9	942.6	876.3	810.0
100°	1252.7	1207.1	1161.5	1116.0	1070.4	1024.8	979.2	933.6	871.7	809.8	747.9
102.5°	1183.1	1138.4	1093.7	1048.9	1004.2	959.5	914.8	870.1	811.3	752.5	693.7
105°	1120.6	1076.3	1032.0	987.8	943.5	899.2	855.0	810.7	755.0	699.3	643.5
107.5°	1062.8	1019.4	976.0	932.7	889.3	845.9	802.5	759.1	705.6	652.1	598.6
110°	1007.1	964.6	922.1	879.6	837.1	794.6	752.1	709.6	658.3	607.0	555.7



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	950.3	909.1	867.9	826.8	785.6	744.4	703.2	662.0	612.9	563.8	514.7
115°	891.2	852.3	813.3	774.3	735.3	696.4	657.4	618.4	571.7	525.0	478.3
117.5°	836.9	799.5	762.0	724.6	687.1	649.7	612.2	574.8	530.8	486.7	442.7
120°	783.2	746.6	710.0	673.5	636.9	600.3	563.8	527.2	486.5	445.7	405.0
122.5°	729.7	693.1	656.5	620.0	583.4	546.8	510.3	473.7	437.1	400.6	364.0
125°	671.3	636.3	601.3	566.2	531.2	496.2	461.2	426.2	393.2	360.1	327.1
127.5°	610.5	578.8	547.1	515.3	483.6	451.9	420.2	388.5	357.9	327.3	296.7
130°	543.1	515.4	487.6	459.9	432.1	404.4	376.6	348.9	320.9	292.9	265.0
132.5°	481.9	457.2	432.5	407.9	383.2	358.5	333.9	309.2	283.9	258.6	233.2
135°	423.5	402.4	381.2	360.1	338.9	317.8	296.6	275.5	252.4	229.3	206.1
137.5°	371.3	352.8	334.3	315.8	297.3	278.8	260.3	241.8	220.9	200.0	179.0
140°	321.1	305.2	289.4	273.5	257.7	241.8	226.0	210.1	191.2	172.2	153.3
142.5°	277.5	263.6	249.7	235.9	222.0	208.1	194.3	180.4	163.4	146.5	129.5
145°	238.9	226.6	214.3	201.9	189.6	177.3	164.9	152.6	137.6	122.6	107.7
147.5°	202.0	191.0	180.0	168.9	157.9	146.9	135.9	124.9	112.1	99.3	86.6
150°	165.4	155.9	146.4	137.0	127.5	118.0	108.6	99.1	88.5	78.0	67.4
152.5°	132.4	124.2	116.1	107.9	99.8	91.6	83.5	75.3	67.2	59.0	50.9
155°	100.9	93.8	86.8	79.7	72.7	65.6	58.6	51.5	45.8	40.1	34.3
157.5°	71.3	65.4	59.4	53.5	47.5	41.6	35.6	29.7	26.4	23.1	19.8
160°	44.7	40.3	35.9	31.5	27.1	22.7	18.3	13.9	12.4	10.8	9.3
162.5°	22.4	19.8	17.2	14.5	11.9	9.3	6.6	4.0	3.6	3.1	2.7
165°	7.7	6.6	5.5	4.4	3.3	2.2	1.1	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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1248.7	1246.8	1244.8	1242.8	1240.8	1238.8	1239.5	1240.1	1240.8	1241.5	1242.1
5°	1264.4	1260.8	1257.3	1253.8	1250.2	1246.7	1245.8	1244.9	1244.1	1243.2	1242.3
7.5°	1275.1	1269.9	1264.6	1259.3	1254.0	1248.7	1246.3	1243.9	1241.4	1239.0	1236.6
10°	1284.0	1276.9	1269.9	1262.8	1255.8	1248.7	1244.7	1240.8	1236.8	1232.8	1228.9
12.5°	1289.9	1280.9	1271.9	1262.8	1253.8	1244.8	1239.1	1233.3	1227.6	1221.9	1216.1
15°	1291.9	1280.8	1269.8	1258.8	1247.8	1236.8	1229.5	1222.3	1215.0	1207.7	1200.5
17.5°	1290.8	1278.0	1265.2	1252.5	1239.7	1226.9	1217.7	1208.4	1199.2	1189.9	1180.7
20°	1288.2	1272.7	1257.3	1241.9	1226.5	1211.1	1200.3	1189.5	1178.7	1167.9	1157.1
22.5°	1285.7	1267.2	1248.7	1230.2	1211.7	1193.2	1180.4	1167.7	1154.9	1142.1	1129.4
25°	1284.4	1262.6	1240.8	1219.0	1197.2	1175.4	1160.6	1145.9	1131.1	1116.4	1101.6
27.5°	1281.5	1255.6	1229.6	1203.6	1177.6	1151.6	1135.1	1118.6	1102.0	1085.5	1069.0
30°	1277.6	1247.6	1217.7	1187.7	1157.8	1127.8	1109.1	1090.4	1071.6	1052.9	1034.2
32.5°	1273.6	1239.7	1205.8	1171.8	1137.9	1104.0	1082.9	1061.7	1040.6	1019.5	998.3
35°	1270.8	1232.6	1194.5	1156.4	1118.3	1080.2	1056.4	1032.6	1008.9	985.1	961.3
37.5°	1272.1	1229.3	1186.6	1143.9	1101.1	1058.4	1031.5	1004.7	977.8	950.9	924.1
40°	1276.3	1229.1	1182.0	1134.9	1087.7	1040.6	1010.4	980.3	950.1	919.9	889.8
42.5°	1278.7	1226.7	1174.7	1122.8	1070.8	1018.8	985.5	952.3	919.0	885.8	852.5
45°	1286.4	1228.9	1171.4	1114.0	1056.5	999.0	962.4	925.9	889.3	852.8	816.2
47.5°	1298.3	1234.8	1171.4	1108.0	1044.5	981.1	941.0	900.9	860.9	820.8	780.7
50°	1310.4	1240.5	1170.7	1100.9	1031.1	961.3	917.7	874.1	830.5	786.9	743.3
52.5°	1331.7	1254.9	1178.0	1101.1	1024.3	947.4	900.3	853.2	806.0	758.9	711.8
55°	1355.5	1270.8	1186.0	1101.2	1016.4	931.6	880.3	829.0	777.7	726.4	675.0
57.5°	1384.6	1291.2	1197.8	1104.5	1011.1	917.7	862.9	808.0	753.2	698.4	643.5
60°	1417.6	1315.7	1213.7	1111.7	1009.8	907.8	848.8	789.8	730.7	671.7	612.7
62.5°	1449.8	1339.0	1228.2	1117.5	1006.7	895.9	833.8	771.7	709.6	647.5	585.4
65°	1478.7	1359.7	1240.8	1121.9	1002.9	884.0	818.4	752.8	687.1	621.5	555.9
67.5°	1498.0	1372.1	1246.1	1120.1	994.2	868.2	799.9	731.6	663.4	595.1	526.8
70°	1504.4	1373.6	1242.8	1111.9	981.1	850.3	779.8	709.3	638.9	568.4	497.9
72.5°	1490.5	1357.7	1224.9	1092.1	959.3	826.5	754.5	682.5	610.5	538.5	466.4
75°	1456.4	1324.5	1192.6	1060.6	928.7	796.8	724.1	651.4	578.8	506.1	433.4
77.5°	1400.9	1272.9	1145.0	1017.0	889.1	761.1	688.9	616.6	544.4	472.2	399.9
80°	1324.3	1202.9	1081.6	960.2	838.9	717.5	646.8	576.1	505.4	434.7	364.1
82.5°	1237.5	1125.2	1012.9	900.5	788.2	675.9	606.7	537.6	468.4	399.3	330.1
85°	1141.7	1038.6	935.5	832.5	729.4	626.3	560.0	493.7	427.4	361.1	294.9
87.5°	1044.6	951.4	858.3	765.1	672.0	578.8	515.4	451.9	388.5	325.1	261.6
90°	953.1	868.4	783.6	698.8	614.0	529.2	470.4	411.6	352.8	294.0	235.2
92.5°	874.3	796.6	718.8	641.1	563.3	485.6	431.6	377.7	323.7	269.8	215.8
95°	805.8	734.3	662.7	591.1	519.6	448.0	398.2	348.4	298.7	248.9	199.1
97.5°	743.7	677.5	611.2	544.9	478.6	412.3	366.5	320.7	274.9	229.1	183.2
100°	686.0	624.2	562.3	500.4	438.5	376.6	334.8	292.9	251.1	209.2	167.4
102.5°	634.9	576.1	517.3	458.5	399.7	340.9	303.0	265.1	227.3	189.4	151.5
105°	587.8	532.1	476.4	420.6	364.9	309.2	274.8	240.5	206.1	171.8	137.4
107.5°	545.1	491.5	438.0	384.5	331.0	277.5	246.7	215.8	185.0	154.2	123.3
110°	504.4	453.0	401.7	350.4	299.1	247.8	220.3	192.7	165.2	137.7	110.1



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	465.6	416.4	367.3	318.2	269.1	220.0	195.6	171.1	146.7	122.2	97.8
115°	431.6	385.0	338.3	291.6	244.9	198.2	176.2	154.2	132.1	110.1	88.1
117.5°	398.6	354.6	310.5	266.5	222.4	178.4	158.6	138.8	118.9	99.1	79.3
120°	364.3	323.5	282.8	242.1	201.3	160.6	142.8	124.9	107.1	89.2	71.4
122.5°	327.5	290.9	254.4	217.8	181.3	144.7	128.6	112.5	96.5	80.4	64.3
125°	294.0	261.0	227.9	194.9	161.8	128.8	114.5	100.2	85.9	71.6	57.2
127.5°	266.1	235.4	204.8	174.2	143.6	113.0	100.4	87.9	75.3	62.8	50.2
130°	237.0	209.0	181.0	153.1	125.1	97.1	86.3	75.5	64.7	53.9	43.2
132.5°	207.9	182.6	157.3	131.9	106.6	81.3	72.3	63.2	54.2	45.2	36.1
135°	183.0	159.9	136.8	113.6	90.5	67.4	59.9	52.4	44.9	37.4	30.0
137.5°	158.1	137.2	116.3	95.3	74.4	53.5	47.6	41.6	35.7	29.7	23.8
140°	134.3	115.4	96.4	77.5	58.5	39.6	35.2	30.8	26.4	22.0	17.6
142.5°	112.5	95.6	78.6	61.6	44.7	27.7	24.6	21.5	18.5	15.4	12.3
145°	92.7	77.7	62.7	47.8	32.8	17.8	15.8	13.8	11.9	9.9	7.9
147.5°	73.8	61.0	48.2	35.5	22.7	9.9	8.8	7.7	6.6	5.5	4.4
150°	56.8	46.3	35.7	25.1	14.6	4.0	3.6	3.1	2.7	2.2	1.8
152.5°	42.7	34.6	26.4	18.3	10.1	2.0	1.8	1.6	1.3	1.1	0.9
155°	28.6	22.9	17.2	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	7.7	6.2	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.2	1.8	1.3	0.9	0.4	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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1242.8	1243.5	1244.1	1244.8	1241.9	1239.1	1236.2	1233.3	1230.5	1227.6	1224.7
5°	1241.4	1240.6	1239.7	1238.8	1234.6	1230.4	1226.3	1222.1	1217.9	1213.7	1209.6
7.5°	1234.2	1231.7	1229.3	1226.9	1221.6	1216.3	1211.1	1205.8	1200.5	1195.2	1190.0
10°	1224.9	1220.9	1217.0	1213.0	1206.6	1200.2	1193.9	1187.5	1181.1	1174.7	1168.4
12.5°	1210.4	1204.7	1198.9	1193.2	1186.2	1179.1	1172.1	1165.0	1158.0	1150.9	1143.9
15°	1193.2	1185.9	1178.7	1171.4	1163.7	1156.0	1148.3	1140.6	1132.9	1125.2	1117.5
17.5°	1171.4	1162.2	1152.9	1143.7	1135.8	1127.8	1119.9	1112.0	1104.0	1096.1	1088.2
20°	1146.3	1135.5	1124.7	1113.9	1105.8	1097.6	1089.5	1081.3	1073.2	1065.0	1056.9
22.5°	1116.6	1103.8	1091.1	1078.3	1070.1	1062.0	1053.8	1045.7	1037.5	1029.4	1021.2
25°	1086.9	1072.1	1057.4	1042.6	1034.7	1026.7	1018.8	1010.9	1002.9	995.0	987.1
27.5°	1052.5	1035.9	1019.4	1002.9	995.4	987.9	980.5	973.0	965.5	958.0	950.6
30°	1015.5	996.7	978.0	959.3	952.5	945.7	938.8	932.0	925.2	918.4	911.5
32.5°	977.2	956.1	934.9	913.8	907.8	901.9	895.9	890.0	884.0	878.1	872.1
35°	937.5	913.8	890.0	866.2	862.0	857.8	853.6	849.4	845.3	841.1	836.9
37.5°	897.2	870.3	843.5	816.6	814.4	812.2	810.0	807.8	805.6	803.4	801.2
40°	859.6	829.4	799.3	769.1	769.5	770.0	770.4	770.8	771.3	771.7	772.1
42.5°	819.3	786.0	752.8	719.5	722.8	726.1	729.4	732.7	736.0	739.3	742.6
45°	779.7	743.1	706.6	670.0	676.4	682.8	689.1	695.5	701.9	708.3	714.6
47.5°	740.6	700.6	660.5	620.4	629.6	638.9	648.1	657.4	666.6	675.9	685.1
50°	699.7	656.1	612.5	568.9	581.4	594.0	606.5	619.1	631.6	644.2	656.7
52.5°	664.7	617.5	570.4	523.3	538.7	554.1	569.5	584.9	600.4	615.8	631.2
55°	623.7	572.4	521.1	469.8	489.0	508.1	527.3	546.4	565.6	584.7	603.9
57.5°	588.7	533.9	479.0	424.2	446.4	468.7	490.9	513.2	535.4	557.7	579.9
60°	553.7	494.6	435.6	376.6	402.1	427.7	453.2	478.8	504.3	529.9	555.4
62.5°	523.3	461.2	399.1	337.0	365.0	392.9	420.9	448.9	476.8	504.8	532.8
65°	490.3	424.6	359.0	293.4	324.2	355.0	385.9	416.7	447.5	478.3	509.2
67.5°	458.5	390.3	322.0	253.7	286.7	319.8	352.8	385.8	418.9	451.9	484.9
70°	427.4	357.0	286.5	216.0	250.8	285.6	320.4	355.2	390.0	424.8	459.6
72.5°	394.4	322.4	250.4	178.4	214.5	250.6	286.8	322.9	359.0	395.1	431.3
75°	360.7	288.1	215.4	142.7	179.3	215.8	252.4	288.9	325.5	362.0	398.6
77.5°	327.7	255.5	183.2	111.0	147.8	184.6	221.3	258.1	294.9	331.7	368.4
80°	293.4	222.7	152.0	81.3	117.9	154.4	191.0	227.5	264.1	300.6	337.2
82.5°	261.0	191.8	122.7	53.5	89.4	125.3	161.2	197.1	233.0	268.9	304.8
85°	228.6	162.3	96.0	29.7	64.7	99.7	134.8	169.8	204.8	239.8	274.9
87.5°	198.2	134.8	71.3	7.9	41.6	75.3	109.0	142.7	176.4	210.1	243.8
90°	176.4	117.6	58.8	0.0	31.3	62.6	93.8	125.1	156.4	187.7	218.9
92.5°	161.9	107.9	54.0	0.0	29.3	58.6	87.9	117.2	146.4	175.7	205.0
95°	149.3	99.6	49.8	0.0	27.1	54.2	81.3	108.4	135.4	162.5	189.6
97.5°	137.4	91.6	45.8	0.0	25.1	50.2	75.3	100.4	125.6	150.7	175.8
100°	125.5	83.7	41.8	0.0	23.1	46.2	69.4	92.5	115.6	138.7	161.9
102.5°	113.6	75.8	37.9	0.0	21.4	42.7	64.1	85.5	106.8	128.2	149.6
105°	103.1	68.7	34.4	0.0	19.6	39.2	58.8	78.4	98.0	117.6	137.2
107.5°	92.5	61.7	30.8	0.0	17.8	35.7	53.5	71.4	89.2	107.1	124.9
110°	82.6	55.1	27.5	0.0	16.3	32.6	48.9	65.2	81.5	97.8	114.1



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	73.3	48.9	24.4	0.0	14.8	29.5	44.3	59.0	73.8	88.5	103.3
115°	66.1	44.0	22.0	0.0	13.2	26.4	39.6	52.8	66.1	79.3	92.5
117.5°	59.5	39.6	19.8	0.0	11.7	23.4	35.0	46.7	58.4	70.1	81.7
120°	53.5	35.7	17.8	0.0	10.4	20.7	31.1	41.4	51.8	62.1	72.5
122.5°	48.2	32.2	16.1	0.0	9.2	18.5	27.7	37.0	46.2	55.5	64.7
125°	42.9	28.6	14.3	0.0	7.9	15.9	23.8	31.7	39.7	47.6	55.5
127.5°	37.7	25.1	12.6	0.0	6.6	13.2	19.8	26.4	33.1	39.7	46.3
130°	32.4	21.6	10.8	0.0	5.5	11.0	16.5	22.0	27.6	33.1	38.6
132.5°	27.1	18.1	9.0	0.0	4.4	8.8	13.2	17.6	22.0	26.4	30.8
135°	22.5	15.0	7.5	0.0	3.5	7.0	10.6	14.1	17.6	21.1	24.7
137.5°	17.8	11.9	5.9	0.0	2.6	5.3	7.9	10.6	13.2	15.9	18.5
140°	13.2	8.8	4.4	0.0	1.8	3.5	5.3	7.1	8.8	10.6	12.4
142.5°	9.2	6.2	3.1	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7
145°	5.9	4.0	2.0	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6
147.5°	3.3	2.2	1.1	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
150°	1.3	0.9	0.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
152.5°	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1221.9	1219.0	1217.9	1216.8	1215.7	1214.6	1213.5	1212.4	1211.3	1210.2	1209.1
5°	1205.4	1201.2	1199.4	1197.7	1195.9	1194.1	1192.4	1190.6	1188.8	1187.1	1185.3
7.5°	1184.7	1179.4	1177.2	1175.0	1172.8	1170.6	1168.3	1166.1	1163.9	1161.7	1159.5
10°	1162.0	1155.6	1153.2	1150.8	1148.3	1145.9	1143.5	1141.1	1138.6	1136.2	1133.8
12.5°	1136.8	1129.8	1126.9	1124.1	1121.2	1118.3	1115.5	1112.6	1109.7	1106.9	1104.0
15°	1109.8	1102.1	1099.5	1096.8	1094.2	1091.5	1088.9	1086.2	1083.6	1080.9	1078.3
17.5°	1080.2	1072.3	1070.3	1068.3	1066.4	1064.4	1062.4	1060.4	1058.5	1056.5	1054.5
20°	1048.7	1040.6	1039.7	1038.8	1038.0	1037.1	1036.2	1035.3	1034.5	1033.6	1032.7
22.5°	1013.1	1004.9	1006.2	1007.5	1008.9	1010.2	1011.5	1012.8	1014.2	1015.5	1016.8
25°	979.1	971.2	975.6	980.0	984.4	988.8	993.3	997.7	1002.1	1006.5	1010.9
27.5°	943.1	935.6	943.7	951.9	960.0	968.2	976.3	984.5	992.6	1000.8	1008.9
30°	904.7	897.9	910.0	922.1	934.2	946.3	958.5	970.6	982.7	994.8	1006.9
32.5°	866.2	860.2	876.1	891.9	907.8	923.6	939.5	955.3	971.2	987.0	1002.9
35°	832.7	828.5	847.7	866.8	886.0	905.2	924.3	943.5	962.7	981.8	1001.0
37.5°	799.0	796.8	819.3	841.7	864.2	886.7	909.1	931.6	954.1	976.5	999.0
40°	772.6	773.0	798.3	823.7	849.0	874.3	899.7	925.0	950.3	975.7	1001.0
42.5°	745.9	749.2	777.4	805.6	833.8	862.0	890.1	918.3	946.5	974.7	1002.9
45°	721.0	727.4	758.9	790.4	821.9	853.4	884.9	916.4	947.9	979.4	1010.9
47.5°	694.4	703.6	738.8	774.1	809.3	844.6	879.8	915.1	950.3	985.6	1020.8
50°	669.3	681.8	721.0	760.2	799.4	838.6	877.9	917.1	956.3	995.5	1034.7
52.5°	646.6	662.0	705.6	749.2	792.8	836.4	880.1	923.7	967.3	1010.9	1054.5
55°	623.0	642.2	690.9	739.5	788.2	836.9	885.5	934.2	982.9	1031.5	1080.2
57.5°	602.2	624.4	678.4	732.3	786.3	840.2	894.2	948.1	1002.1	1056.0	1110.0
60°	581.0	606.5	666.2	725.9	785.6	845.3	904.9	964.6	1024.3	1084.0	1143.7
62.5°	560.7	588.7	653.9	719.1	784.3	849.5	914.6	979.8	1045.0	1110.2	1175.4
65°	540.0	570.8	641.5	712.2	782.9	853.6	924.3	995.0	1065.7	1136.4	1207.1
67.5°	518.0	551.0	626.1	701.2	776.3	851.4	926.5	1001.6	1076.7	1151.8	1226.9
70°	494.4	529.2	607.6	686.0	764.4	842.8	921.3	999.7	1078.1	1156.5	1234.9
72.5°	467.4	503.5	583.2	662.9	742.7	822.4	902.1	981.8	1061.6	1141.3	1221.0
75°	435.1	471.7	551.2	630.7	710.2	789.7	869.3	948.8	1028.3	1107.8	1187.3
77.5°	405.2	442.0	518.4	594.8	671.3	747.7	824.1	900.5	977.0	1053.4	1129.8
80°	373.7	410.3	482.3	554.3	626.3	698.3	770.4	842.4	914.4	986.4	1058.4
82.5°	340.7	376.6	443.1	509.6	576.1	642.6	709.2	775.7	842.2	908.7	975.2
85°	309.9	344.9	405.2	465.6	525.9	586.3	646.6	707.0	767.3	827.7	888.0
87.5°	277.5	311.2	365.4	419.6	473.7	527.9	582.1	636.3	690.4	744.6	798.8
90°	250.2	281.5	330.4	379.3	428.2	477.1	525.9	574.8	623.7	672.6	721.5
92.5°	234.3	263.6	307.6	351.7	395.7	439.8	483.8	527.9	571.9	616.0	660.0
95°	216.7	243.8	284.3	324.8	365.4	405.9	446.4	486.9	527.5	568.0	608.5
97.5°	200.9	226.0	263.7	301.3	339.0	376.6	414.3	451.9	489.6	527.2	564.9
100°	185.0	208.1	243.6	279.0	314.5	349.9	385.4	420.8	456.3	491.7	527.2
102.5°	170.9	192.3	225.6	258.8	292.1	325.3	358.6	391.8	425.1	458.3	491.6
105°	156.8	176.4	208.3	240.3	272.2	304.1	336.1	368.0	399.9	431.9	463.8
107.5°	142.8	160.6	191.4	222.2	253.1	283.9	314.7	345.5	376.4	407.2	438.0
110°	130.4	146.7	176.4	206.2	235.9	265.6	295.4	325.1	354.8	384.6	414.3



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	118.0	132.8	161.4	190.1	218.7	247.3	276.0	304.6	333.2	361.9	390.5
115°	105.7	118.9	146.2	173.5	200.8	228.1	255.5	282.8	310.1	337.4	364.7
117.5°	93.4	105.1	131.1	157.1	183.0	209.0	235.0	261.0	286.9	312.9	338.9
120°	82.8	93.2	117.6	142.1	166.5	191.0	215.4	239.9	264.3	288.8	313.2
122.5°	74.0	83.2	105.9	128.6	151.3	174.0	196.6	219.3	242.0	264.7	287.4
125°	63.5	71.4	92.5	113.7	134.8	155.9	177.1	198.2	219.3	240.5	261.6
127.5°	52.9	59.5	78.9	98.3	117.6	137.0	156.4	175.8	195.1	214.5	233.9
130°	44.1	49.6	66.3	83.1	99.8	116.5	133.3	150.0	166.7	183.5	200.2
132.5°	35.2	39.6	53.7	67.8	81.9	96.0	110.1	124.2	138.3	152.4	166.5
135°	28.2	31.7	44.0	56.4	68.7	81.0	93.4	105.7	118.0	130.4	142.7
137.5°	21.2	23.8	34.1	44.5	54.8	65.2	75.5	85.9	96.2	106.6	116.9
140°	14.1	15.9	24.7	33.5	42.3	51.1	59.9	68.7	77.5	86.3	95.1
142.5°	8.8	9.9	17.2	24.4	31.7	39.0	46.2	53.5	60.8	68.0	75.3
145°	5.2	5.9	11.6	17.4	23.1	28.8	34.6	40.3	46.0	51.8	57.5
147.5°	3.6	4.0	8.4	12.8	17.2	21.6	26.0	30.4	34.8	39.2	43.6
150°	1.8	2.0	5.3	8.6	11.9	15.2	18.5	21.8	25.1	28.4	31.7
152.5°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	14.5	17.0	19.4	21.8
155°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	9.3	10.8	12.4	13.9
157.5°	0.0	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9
160°	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0
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: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1208.0	1206.9	1205.8	1204.7	1203.6	1202.5	1201.4	1200.3	1199.2	1198.3	1197.4
5°	1183.8	1182.2	1180.7	1179.1	1177.6	1176.0	1174.5	1172.9	1171.4	1171.0	1170.5
7.5°	1157.7	1156.0	1154.2	1152.5	1150.7	1149.0	1147.2	1145.5	1143.7	1143.3	1142.8
10°	1132.0	1130.3	1128.5	1126.7	1125.0	1123.2	1121.4	1119.7	1117.9	1117.5	1117.0
12.5°	1102.9	1101.8	1100.7	1099.6	1098.5	1097.4	1096.3	1095.2	1094.1	1094.1	1094.1
15°	1077.9	1077.4	1077.0	1076.5	1076.1	1075.6	1075.2	1074.7	1074.3	1074.7	1075.2
17.5°	1055.8	1057.1	1058.5	1059.8	1061.1	1062.4	1063.8	1065.1	1066.4	1067.7	1069.0
20°	1036.7	1040.6	1044.6	1048.6	1052.5	1056.5	1060.5	1064.4	1068.4	1070.8	1073.2
22.5°	1023.6	1030.5	1037.3	1044.1	1051.0	1057.8	1064.6	1071.5	1078.3	1081.2	1084.0
25°	1019.5	1028.1	1036.7	1045.3	1053.8	1062.4	1071.0	1079.6	1088.2	1091.5	1094.8
27.5°	1018.6	1028.3	1038.0	1047.7	1057.3	1067.0	1076.7	1086.4	1096.1	1099.8	1103.6
30°	1017.9	1028.9	1039.9	1050.9	1062.0	1073.0	1084.0	1095.0	1106.0	1110.6	1115.2
32.5°	1015.7	1028.5	1041.2	1054.0	1066.8	1079.6	1092.3	1105.1	1117.9	1123.4	1128.9
35°	1015.8	1030.5	1045.3	1060.0	1074.8	1089.5	1104.3	1119.0	1133.8	1140.4	1147.0
37.5°	1016.2	1033.4	1050.5	1067.7	1084.9	1102.1	1119.2	1136.4	1153.6	1161.5	1169.4
40°	1020.8	1040.6	1060.5	1080.3	1100.1	1119.9	1139.8	1159.6	1179.4	1188.9	1198.3
42.5°	1026.2	1049.6	1072.9	1096.3	1119.6	1143.0	1166.3	1189.7	1213.0	1224.0	1235.0
45°	1038.0	1065.1	1092.2	1119.3	1146.3	1173.4	1200.5	1227.6	1254.7	1267.5	1280.2
47.5°	1052.3	1083.8	1115.3	1146.8	1178.2	1209.7	1241.2	1272.7	1304.2	1319.0	1333.7
50°	1071.3	1107.8	1144.4	1180.9	1217.5	1254.0	1290.6	1327.1	1363.7	1380.7	1397.6
52.5°	1096.1	1137.7	1179.4	1221.0	1262.6	1304.2	1345.9	1387.5	1429.1	1448.3	1467.4
55°	1127.3	1174.5	1221.6	1268.7	1315.9	1363.0	1410.1	1457.3	1504.4	1525.1	1545.8
57.5°	1162.4	1214.8	1267.2	1319.6	1372.1	1424.5	1476.9	1529.3	1581.7	1603.9	1626.2
60°	1201.0	1258.2	1315.5	1372.7	1430.0	1487.2	1544.5	1601.7	1659.0	1681.7	1704.4
62.5°	1237.1	1298.7	1360.4	1422.1	1483.7	1545.4	1607.1	1668.7	1730.4	1753.3	1776.2
65°	1271.4	1335.7	1400.0	1464.3	1528.7	1593.0	1657.3	1721.6	1785.9	1808.8	1831.7
67.5°	1293.0	1359.1	1425.1	1491.2	1557.3	1623.4	1689.4	1755.5	1821.6	1843.2	1864.8
70°	1300.7	1366.6	1432.4	1498.3	1564.1	1630.0	1695.8	1761.7	1827.5	1848.2	1868.9
72.5°	1285.5	1350.0	1414.6	1479.1	1543.6	1608.1	1672.7	1737.2	1801.7	1820.6	1839.6
75°	1248.5	1309.7	1371.0	1432.2	1493.4	1554.6	1615.9	1677.1	1738.3	1755.5	1772.7
77.5°	1186.8	1243.9	1300.9	1358.0	1415.0	1472.1	1529.1	1586.2	1643.2	1659.3	1675.4
80°	1109.9	1161.5	1213.0	1264.6	1316.1	1367.7	1419.2	1470.8	1522.3	1537.5	1552.7
82.5°	1021.2	1067.3	1113.3	1159.3	1205.4	1251.4	1297.4	1343.5	1389.5	1403.1	1416.8
85°	928.7	969.5	1010.2	1051.0	1091.7	1132.5	1173.2	1214.0	1254.7	1266.1	1277.6
87.5°	834.7	870.6	906.5	942.4	978.3	1014.2	1050.1	1086.0	1121.9	1132.5	1143.0
90°	753.0	784.5	816.0	847.5	878.9	910.4	941.9	973.4	1004.9	1014.8	1024.7
92.5°	688.2	716.4	744.6	772.8	801.0	829.2	857.4	885.6	913.8	922.4	931.0
95°	634.3	660.0	685.8	711.6	737.3	763.1	788.9	814.6	840.4	848.6	856.7
97.5°	588.7	612.5	636.3	660.1	683.8	707.6	731.4	755.2	779.0	787.4	795.7
100°	550.3	573.5	596.6	619.7	642.9	666.0	689.1	712.3	735.4	743.1	750.8
102.5°	514.5	537.4	560.3	583.2	606.1	629.0	651.9	674.8	697.7	705.4	713.1
105°	486.5	509.2	531.9	554.6	577.2	599.9	622.6	645.3	668.0	675.5	683.0
107.5°	460.7	483.4	506.1	528.8	551.4	574.1	596.8	619.5	642.2	649.7	657.2
110°	436.8	459.2	481.7	504.1	526.6	549.0	571.5	593.9	616.4	624.1	631.8



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	413.2	435.9	458.5	481.2	503.9	526.6	549.2	571.9	594.6	602.1	609.6
115°	387.4	410.1	432.8	455.5	478.1	500.8	523.5	546.2	568.9	576.6	584.3
117.5°	361.4	383.8	406.3	428.8	451.2	473.7	496.2	518.6	541.1	549.0	557.0
120°	335.2	357.2	379.3	401.3	423.3	445.3	467.4	489.4	511.4	519.5	527.7
122.5°	307.9	328.4	348.8	369.3	389.8	410.3	430.7	451.2	471.7	480.5	489.3
125°	281.0	300.4	319.8	339.2	358.5	377.9	397.3	416.7	436.1	444.5	452.8
127.5°	252.0	270.0	288.1	306.1	324.2	342.2	360.3	378.3	396.4	403.9	411.4
130°	217.6	235.0	252.4	269.8	287.2	304.6	322.0	339.4	356.8	363.8	370.9
132.5°	183.5	200.4	217.4	234.3	251.3	268.2	285.2	302.1	319.1	325.9	332.8
135°	158.3	174.0	189.6	205.2	220.9	236.5	252.1	267.8	283.4	289.1	294.9
137.5°	130.8	144.7	158.5	172.4	186.3	200.2	214.0	227.9	241.8	247.5	253.3
140°	106.3	117.6	128.8	140.0	151.3	162.5	173.7	185.0	196.2	202.1	208.1
142.5°	85.0	94.7	104.4	114.1	123.7	133.4	143.1	152.8	162.5	167.6	172.6
145°	65.6	73.8	81.9	90.1	98.2	106.4	114.5	122.7	130.8	135.9	140.9
147.5°	50.0	56.4	62.8	69.2	75.5	81.9	88.3	94.7	101.1	105.9	110.8
150°	36.8	41.8	46.9	52.0	57.0	62.1	67.2	72.2	77.3	81.7	86.1
152.5°	25.8	29.7	33.7	37.7	41.6	45.6	49.6	53.5	57.5	61.2	65.0
155°	16.8	19.6	22.5	25.3	28.2	31.0	33.9	36.7	39.6	43.1	46.7
157.5°	8.1	10.3	12.5	14.7	17.0	19.2	21.4	23.6	25.8	28.9	32.0
160°	3.5	5.1	6.6	8.2	9.7	11.3	12.8	14.4	15.9	18.3	20.7
162.5°	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	7.9	9.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1196.5	1195.6	1194.8	1193.9	1193.0	1192.1	1191.2	1192.1	1193.0	1193.9	1194.8
5°	1170.1	1169.7	1169.2	1168.8	1168.4	1167.9	1167.5	1167.7	1167.9	1168.1	1168.3
7.5°	1142.4	1141.9	1141.5	1141.0	1140.6	1140.1	1139.7	1140.1	1140.6	1141.0	1141.5
10°	1116.6	1116.1	1115.7	1115.2	1114.8	1114.3	1113.9	1114.3	1114.8	1115.2	1115.7
12.5°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
15°	1075.6	1076.1	1076.5	1077.0	1077.4	1077.9	1078.3	1078.3	1078.3	1078.3	1078.3
17.5°	1070.4	1071.7	1073.0	1074.3	1075.7	1077.0	1078.3	1077.0	1075.7	1074.3	1073.0
20°	1075.7	1078.1	1080.5	1082.9	1085.4	1087.8	1090.2	1087.6	1084.9	1082.3	1079.6
22.5°	1086.9	1089.7	1092.6	1095.4	1098.3	1101.1	1104.0	1100.7	1097.4	1094.1	1090.8
25°	1098.1	1101.4	1104.7	1108.0	1111.3	1114.6	1117.9	1114.4	1110.9	1107.3	1103.8
27.5°	1107.3	1111.1	1114.8	1118.6	1122.3	1126.1	1129.8	1126.1	1122.3	1118.6	1114.8
30°	1119.9	1124.5	1129.1	1133.7	1138.4	1143.0	1147.6	1142.8	1137.9	1133.1	1128.2
32.5°	1134.4	1139.9	1145.5	1151.0	1156.5	1162.0	1167.5	1162.0	1156.5	1151.0	1145.5
35°	1153.6	1160.2	1166.8	1173.4	1180.0	1186.6	1193.2	1186.6	1180.0	1173.4	1166.8
37.5°	1177.4	1185.3	1193.2	1201.1	1209.1	1217.0	1224.9	1217.2	1209.5	1201.8	1194.1
40°	1207.8	1217.3	1226.7	1236.2	1245.7	1255.1	1264.6	1255.8	1247.0	1238.2	1229.4
42.5°	1246.1	1257.1	1268.1	1279.1	1290.2	1301.2	1312.2	1301.8	1291.5	1281.1	1270.8
45°	1293.0	1305.8	1318.5	1331.3	1344.1	1356.8	1369.6	1357.3	1344.9	1332.6	1320.3
47.5°	1348.5	1363.2	1378.0	1392.7	1407.5	1422.2	1437.0	1423.3	1409.7	1396.0	1382.4
50°	1414.6	1431.5	1448.5	1465.4	1482.4	1499.3	1516.3	1500.4	1484.6	1468.7	1452.9
52.5°	1486.6	1505.7	1524.9	1544.0	1563.2	1582.3	1601.5	1583.9	1566.3	1548.7	1531.1
55°	1566.5	1587.2	1607.9	1628.6	1649.3	1670.0	1690.7	1670.9	1651.1	1631.2	1611.4
57.5°	1648.4	1670.7	1692.9	1715.2	1737.4	1759.7	1781.9	1760.8	1739.6	1718.5	1697.3
60°	1727.1	1749.8	1772.4	1795.1	1817.8	1840.5	1863.2	1842.7	1822.2	1801.7	1781.2
62.5°	1799.1	1822.0	1844.9	1867.8	1890.7	1913.6	1936.5	1915.8	1895.1	1874.4	1853.7
65°	1854.6	1877.5	1900.4	1923.3	1946.2	1969.1	1992.0	1970.9	1949.7	1928.6	1907.4
67.5°	1886.3	1907.9	1929.5	1951.1	1972.6	1994.2	2015.8	1996.2	1976.6	1957.0	1937.4
70°	1889.6	1910.3	1931.0	1951.7	1972.4	1993.1	2013.8	1995.1	1976.4	1957.6	1938.9
72.5°	1858.5	1877.5	1896.4	1915.4	1934.3	1953.3	1972.2	1955.5	1938.7	1922.0	1905.3
75°	1789.8	1807.0	1824.2	1841.4	1858.5	1875.7	1892.9	1877.9	1862.9	1848.0	1833.0
77.5°	1691.4	1707.5	1723.6	1739.7	1755.7	1771.8	1787.9	1773.8	1759.7	1745.6	1731.5
80°	1567.9	1583.1	1598.2	1613.4	1628.6	1643.8	1659.0	1646.0	1633.0	1620.0	1607.0
82.5°	1430.4	1444.1	1457.7	1471.4	1485.0	1498.7	1512.3	1500.6	1489.0	1477.3	1465.6
85°	1289.0	1300.5	1311.9	1323.4	1334.8	1346.3	1357.7	1347.1	1336.6	1326.0	1315.4
87.5°	1153.6	1164.2	1174.7	1185.3	1195.9	1206.4	1217.0	1206.9	1196.7	1186.6	1176.5
90°	1034.6	1044.5	1054.5	1064.4	1074.3	1084.2	1094.1	1084.6	1075.2	1065.7	1056.2
92.5°	939.6	948.2	956.7	965.3	973.9	982.5	991.1	982.7	974.3	966.0	957.6
95°	864.9	873.0	881.2	889.3	897.5	905.6	913.8	906.1	898.4	890.7	883.0
97.5°	804.1	812.5	820.8	829.2	837.6	845.9	854.3	846.8	839.3	831.8	824.3
100°	758.5	766.2	773.9	781.6	789.3	797.0	804.7	797.4	790.2	782.9	775.6
102.5°	720.8	728.5	736.3	744.0	751.7	759.4	767.1	760.0	753.0	745.9	738.9
105°	690.5	698.0	705.4	712.9	720.4	727.9	735.4	728.3	721.3	714.2	707.2
107.5°	664.7	672.2	679.6	687.1	694.6	702.1	709.6	702.6	695.5	688.5	681.4
110°	639.5	647.2	655.0	662.7	670.4	678.1	685.8	678.5	671.3	664.0	656.7



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	617.1	624.6	632.0	639.5	647.0	654.5	662.0	654.7	647.5	640.2	632.9
115°	592.0	599.7	607.4	615.1	622.8	630.5	638.2	630.9	623.7	616.4	609.1
117.5°	564.9	572.8	580.8	588.7	596.6	604.6	612.5	605.0	597.5	590.0	582.5
120°	535.8	544.0	552.1	560.3	568.4	576.6	584.7	577.0	569.3	561.6	553.9
122.5°	498.1	506.9	515.8	524.6	533.4	542.2	551.0	542.9	534.7	526.6	518.4
125°	461.2	469.6	477.9	486.3	494.7	503.0	511.4	503.7	496.0	488.3	480.6
127.5°	418.9	426.4	433.8	441.3	448.8	456.3	463.8	457.0	450.2	443.3	436.5
130°	377.9	385.0	392.0	399.1	406.1	413.2	420.2	414.0	407.9	401.7	395.5
132.5°	339.6	346.4	353.3	360.1	366.9	373.8	380.6	374.6	368.7	362.7	356.8
135°	300.6	306.3	312.1	317.8	323.5	329.3	335.0	330.2	325.3	320.5	315.6
137.5°	259.0	264.7	270.5	276.2	281.9	287.7	293.4	288.8	284.1	279.5	274.9
140°	214.0	220.0	225.9	231.9	237.8	243.8	249.7	245.5	241.3	237.2	233.0
142.5°	177.7	182.8	187.8	192.9	198.0	203.0	208.1	205.0	201.9	198.9	195.8
145°	146.0	151.1	156.1	161.2	166.3	171.3	176.4	173.8	171.1	168.5	165.8
147.5°	115.6	120.5	125.3	130.2	135.0	139.9	144.7	142.5	140.3	138.1	135.9
150°	90.5	94.9	99.3	103.7	108.1	112.5	116.9	115.1	113.4	111.6	109.9
152.5°	68.7	72.5	76.2	80.0	83.7	87.5	91.2	90.1	89.0	87.9	86.8
155°	50.2	53.7	57.3	60.8	64.3	67.9	71.4	70.5	69.6	68.7	67.8
157.5°	35.0	38.1	41.2	44.3	47.3	50.4	53.5	53.1	52.6	52.2	51.8
160°	23.2	25.6	28.0	30.4	32.9	35.3	37.7	37.3	36.8	36.4	35.9
162.5°	11.9	13.9	15.8	17.8	19.8	21.8	23.8	23.4	22.9	22.5	22.0
165°	4.0	5.3	6.6	7.9	9.3	10.6	11.9	11.9	11.9	11.9	11.9
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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1195.6	1196.5	1197.4	1198.3	1199.2	1201.0	1202.7	1204.5	1206.2	1208.0	1209.7
5°	1168.6	1168.8	1169.0	1169.2	1169.4	1171.8	1174.2	1176.7	1179.1	1181.5	1183.9
7.5°	1141.9	1142.4	1142.8	1143.3	1143.7	1146.6	1149.4	1152.3	1155.1	1158.0	1160.8
10°	1116.1	1116.6	1117.0	1117.5	1117.9	1121.0	1124.1	1127.2	1130.3	1133.3	1136.4
12.5°	1094.1	1094.1	1094.1	1094.1	1094.1	1097.2	1100.3	1103.4	1106.5	1109.5	1112.6
15°	1078.3	1078.3	1078.3	1078.3	1078.3	1079.8	1081.4	1082.9	1084.4	1086.0	1087.5
17.5°	1071.7	1070.4	1069.0	1067.7	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
20°	1077.0	1074.3	1071.7	1069.0	1066.4	1064.0	1061.6	1059.1	1056.7	1054.3	1051.9
22.5°	1087.5	1084.2	1080.9	1077.6	1074.3	1069.0	1063.7	1058.4	1053.1	1047.9	1042.6
25°	1100.3	1096.8	1093.2	1089.7	1086.2	1078.9	1071.7	1064.4	1057.1	1049.9	1042.6
27.5°	1111.1	1107.3	1103.6	1099.8	1096.1	1087.5	1078.9	1070.3	1061.7	1053.2	1044.6
30°	1123.4	1118.5	1113.7	1108.8	1104.0	1093.9	1083.8	1073.6	1063.5	1053.4	1043.3
32.5°	1139.9	1134.4	1128.9	1123.4	1117.9	1105.8	1093.7	1081.6	1069.5	1057.3	1045.2
35°	1160.2	1153.6	1147.0	1140.4	1133.8	1119.7	1105.6	1091.5	1077.4	1063.3	1049.2
37.5°	1186.4	1178.7	1171.0	1163.3	1155.6	1139.1	1122.6	1106.0	1089.5	1073.0	1056.5
40°	1220.5	1211.7	1202.9	1194.1	1185.3	1165.7	1146.1	1126.5	1106.9	1087.3	1067.7
42.5°	1260.4	1250.1	1239.7	1229.4	1219.0	1196.1	1173.2	1150.3	1127.4	1104.5	1081.6
45°	1307.9	1295.6	1283.3	1270.9	1258.6	1232.2	1205.8	1179.3	1152.9	1126.5	1100.1
47.5°	1368.7	1355.1	1341.4	1327.8	1314.1	1282.8	1251.6	1220.3	1189.0	1157.8	1126.5
50°	1437.0	1421.2	1405.3	1389.5	1373.6	1337.5	1301.4	1265.2	1229.1	1193.0	1156.9
52.5°	1513.4	1495.8	1478.2	1460.6	1443.0	1401.4	1359.8	1318.1	1276.5	1234.9	1193.3
55°	1591.6	1571.8	1551.9	1532.1	1512.3	1465.8	1419.4	1372.9	1326.4	1280.0	1233.5
57.5°	1676.2	1655.0	1633.9	1612.7	1591.6	1539.8	1488.1	1436.3	1384.6	1332.8	1281.1
60°	1760.8	1740.3	1719.8	1699.3	1678.8	1621.3	1563.8	1506.4	1448.9	1391.4	1333.9
62.5°	1833.0	1812.3	1791.6	1770.9	1750.2	1688.5	1626.9	1565.2	1503.5	1441.9	1380.2
65°	1886.3	1865.1	1844.0	1822.8	1801.7	1737.8	1674.0	1610.1	1546.2	1482.4	1418.5
67.5°	1917.8	1898.2	1878.6	1859.0	1839.4	1774.0	1708.6	1643.2	1577.8	1512.3	1446.9
70°	1920.2	1901.5	1882.7	1864.0	1845.3	1780.1	1714.9	1649.7	1584.5	1519.4	1454.2
72.5°	1888.5	1871.8	1855.1	1838.3	1821.6	1757.5	1693.4	1629.3	1565.2	1501.2	1437.1
75°	1818.0	1803.0	1788.1	1773.1	1758.1	1697.3	1636.5	1575.8	1515.0	1454.2	1393.4
77.5°	1717.4	1703.3	1689.2	1675.1	1661.0	1604.8	1548.7	1492.5	1436.4	1380.2	1324.1
80°	1594.1	1581.1	1568.1	1555.1	1542.1	1490.6	1439.0	1387.5	1336.0	1284.4	1232.9
82.5°	1454.0	1442.3	1430.6	1419.0	1407.3	1361.3	1315.2	1269.2	1223.2	1177.1	1131.1
85°	1304.9	1294.3	1283.7	1273.2	1262.6	1222.5	1182.4	1142.4	1102.3	1062.2	1022.1
87.5°	1166.3	1156.2	1146.1	1135.9	1125.8	1090.8	1055.8	1020.8	985.8	950.7	915.7
90°	1046.8	1037.3	1027.8	1018.4	1008.9	978.1	947.2	916.4	885.6	854.7	823.9
92.5°	949.2	940.8	932.5	924.1	915.7	888.2	860.7	833.1	805.6	778.1	750.6
95°	875.2	867.5	859.8	852.1	844.4	819.3	794.2	769.1	744.0	718.8	693.7
97.5°	816.9	809.4	801.9	794.4	786.9	763.1	739.3	715.5	691.7	668.0	644.2
100°	768.4	761.1	753.8	746.6	739.3	716.6	693.9	671.3	648.6	625.9	603.2
102.5°	731.8	724.8	717.7	710.7	703.6	681.4	659.1	636.9	614.7	592.4	570.2
105°	700.1	693.1	686.0	679.0	671.9	649.4	627.0	604.5	582.1	559.6	537.2
107.5°	674.4	667.3	660.3	653.2	646.2	624.0	601.7	579.5	557.2	535.0	512.7
110°	649.5	642.2	634.9	627.7	620.4	598.4	576.4	554.3	532.3	510.3	488.3



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	625.7	618.4	611.1	603.9	596.6	574.6	552.6	530.5	508.5	486.5	464.5
115°	601.9	594.6	587.3	580.1	572.8	550.8	528.8	506.7	484.7	462.7	440.7
117.5°	575.1	567.6	560.1	552.6	545.1	523.3	501.5	479.7	457.9	436.1	414.3
120°	546.1	538.4	530.7	523.0	515.3	493.9	472.6	451.2	429.9	408.5	387.2
122.5°	510.3	502.1	494.0	485.8	477.7	457.7	437.6	417.6	397.5	377.5	357.4
125°	472.8	465.1	457.4	449.7	442.0	422.8	403.7	384.5	365.4	346.2	327.1
127.5°	429.7	422.9	416.0	409.2	402.4	384.8	367.2	349.5	331.9	314.3	296.7
130°	389.4	383.2	377.0	370.9	364.7	348.2	331.7	315.1	298.6	282.1	265.6
132.5°	350.8	344.9	338.9	333.0	327.0	311.6	296.2	280.8	265.4	249.9	234.5
135°	310.8	305.9	301.1	296.2	291.4	277.3	263.2	249.1	235.0	220.9	206.8
137.5°	270.2	265.6	261.0	256.3	251.7	239.6	227.5	215.4	203.3	191.1	179.0
140°	228.8	224.6	220.5	216.3	212.1	202.0	191.8	181.7	171.6	161.4	151.3
142.5°	192.7	189.6	186.6	183.5	180.4	171.6	162.8	154.0	145.2	136.3	127.5
145°	163.2	160.5	157.9	155.2	152.6	145.1	137.6	130.1	122.6	115.2	107.7
147.5°	133.7	131.5	129.3	127.1	124.9	119.0	113.0	107.1	101.1	95.2	89.2
150°	108.1	106.4	104.6	102.9	101.1	96.3	91.4	86.6	81.7	76.9	72.0
152.5°	85.7	84.6	83.5	82.4	81.3	77.6	73.8	70.1	66.3	62.6	58.8
155°	67.0	66.1	65.2	64.3	63.4	60.3	57.2	54.2	51.1	48.0	44.9
157.5°	51.3	50.9	50.5	50.0	49.6	46.7	43.9	41.0	38.1	35.3	32.4
160°	35.5	35.0	34.6	34.1	33.7	31.7	29.7	27.8	25.8	23.8	21.8
162.5°	21.6	21.1	20.7	20.2	19.8	18.9	18.0	17.2	16.3	15.4	14.5
165°	11.9	11.9	11.9	11.9	11.9	11.5	11.0	10.6	10.1	9.7	9.2
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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1211.5	1213.2	1215.0	1215.9	1216.8	1217.7	1218.6	1219.4	1220.3	1221.2	1222.1
5°	1186.4	1188.8	1191.2	1193.0	1194.7	1196.5	1198.3	1200.0	1201.8	1203.6	1205.3
7.5°	1163.7	1166.5	1169.4	1171.2	1172.9	1174.7	1176.5	1178.2	1180.0	1181.8	1183.5
10°	1139.5	1142.6	1145.7	1147.5	1149.2	1151.0	1152.7	1154.5	1156.2	1158.0	1159.7
12.5°	1115.7	1118.8	1121.9	1123.4	1125.0	1126.5	1128.0	1129.6	1131.1	1132.6	1134.2
15°	1089.0	1090.6	1092.1	1094.1	1096.1	1098.1	1100.1	1102.0	1104.0	1106.0	1108.0
17.5°	1066.4	1066.4	1066.4	1067.7	1069.0	1070.4	1071.7	1073.0	1074.3	1075.7	1077.0
20°	1049.4	1047.0	1044.6	1044.8	1045.0	1045.3	1045.5	1045.7	1045.9	1046.2	1046.4
22.5°	1037.3	1032.0	1026.7	1025.4	1024.1	1022.7	1021.4	1020.1	1018.8	1017.4	1016.1
25°	1035.3	1028.1	1020.8	1016.0	1011.1	1006.3	1001.4	996.6	991.7	986.9	982.0
27.5°	1036.0	1027.4	1018.8	1010.0	1001.2	992.4	983.6	974.7	965.9	957.1	948.3
30°	1033.1	1023.0	1012.9	1000.8	988.7	976.5	964.4	952.3	940.2	928.0	915.9
32.5°	1033.1	1021.0	1008.9	993.5	978.1	962.6	947.2	931.8	916.4	900.9	885.5
35°	1035.1	1021.0	1006.9	988.0	969.0	950.1	931.1	912.2	893.2	874.3	855.3
37.5°	1039.9	1023.4	1006.9	984.4	962.0	939.5	917.0	894.6	872.1	849.6	827.2
40°	1048.1	1028.5	1008.9	983.4	957.8	932.3	906.7	881.2	855.6	830.1	804.5
42.5°	1058.7	1035.8	1012.9	984.5	956.1	927.7	899.3	870.8	842.4	814.0	785.6
45°	1073.6	1047.2	1020.8	989.1	957.4	925.7	894.0	862.2	830.5	798.8	767.1
47.5°	1095.2	1064.0	1032.7	997.2	961.8	926.3	890.9	855.4	820.0	784.5	749.1
50°	1120.7	1084.6	1048.5	1008.9	969.2	929.6	890.0	850.3	810.7	771.1	731.4
52.5°	1151.6	1110.0	1068.4	1024.3	980.3	936.2	892.2	848.1	804.1	760.0	716.0
55°	1187.0	1140.6	1094.1	1045.2	996.3	947.4	898.5	849.7	800.8	751.9	703.0
57.5°	1229.3	1177.6	1125.8	1071.4	1017.0	962.6	908.2	853.9	799.5	745.1	690.7
60°	1276.5	1219.0	1161.5	1101.4	1041.3	981.1	921.0	860.9	800.8	740.6	680.5
62.5°	1318.5	1256.9	1195.2	1129.6	1063.9	998.3	932.7	867.0	801.4	735.8	670.1
65°	1354.6	1290.8	1226.9	1156.0	1085.1	1014.2	943.3	872.3	801.4	730.5	659.6
67.5°	1381.5	1316.1	1250.7	1175.2	1099.6	1024.1	948.5	873.0	797.4	721.9	646.3
70°	1389.0	1323.8	1258.6	1179.8	1100.9	1022.1	943.2	864.4	785.5	706.7	627.8
72.5°	1373.0	1308.9	1244.8	1164.9	1084.9	1005.0	925.0	845.1	765.1	685.2	605.2
75°	1332.7	1271.9	1211.1	1131.8	1052.5	973.2	893.9	814.7	735.4	656.1	576.8
77.5°	1267.9	1211.8	1155.6	1078.5	1001.4	924.3	847.2	770.2	693.1	616.0	538.9
80°	1181.4	1129.8	1078.3	1006.3	934.3	862.2	790.2	718.2	646.2	574.1	502.1
82.5°	1085.1	1039.0	993.0	926.7	860.4	794.1	727.8	661.6	595.3	529.0	462.7
85°	982.1	942.0	901.9	842.0	782.1	722.2	662.3	602.3	542.4	482.5	422.6
87.5°	880.7	845.7	810.7	757.2	703.7	650.1	596.6	543.1	489.6	436.0	382.5
90°	793.1	762.2	731.4	683.2	634.9	586.7	538.5	490.2	442.0	393.8	345.5
92.5°	723.0	695.5	668.0	624.4	580.8	537.2	493.6	449.9	406.3	362.7	319.1
95°	668.6	643.5	618.4	578.1	537.8	497.5	457.2	416.9	376.6	336.3	296.0
97.5°	620.4	596.6	572.8	535.6	498.4	461.2	424.0	386.7	349.5	312.3	275.1
100°	580.6	557.9	535.2	500.2	465.2	430.1	395.1	360.1	325.1	290.0	255.0
102.5°	548.0	525.7	503.5	470.0	436.5	403.1	369.6	336.1	302.6	269.2	235.7
105°	514.7	492.3	469.8	438.3	406.8	375.3	343.8	312.3	280.8	249.3	217.8
107.5°	490.5	468.2	446.0	415.4	384.8	354.2	323.6	292.9	262.3	231.7	201.1
110°	466.2	444.2	422.2	392.7	363.2	333.7	304.2	274.6	245.1	215.6	186.1



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	442.4	420.4	398.4	370.0	341.6	313.2	284.8	256.3	227.9	199.5	171.1
115°	418.6	396.6	374.6	347.3	320.0	292.7	265.4	238.0	210.7	183.4	156.1
117.5°	392.5	370.7	348.9	322.9	296.9	270.9	244.9	219.0	193.0	167.0	141.0
120°	365.8	344.5	323.1	298.4	273.8	249.1	224.4	199.8	175.1	150.4	125.8
122.5°	337.4	317.3	297.3	274.2	251.1	227.9	204.8	181.7	158.6	135.4	112.3
125°	307.9	288.8	269.6	248.2	226.9	205.5	184.1	162.8	141.4	120.0	98.7
127.5°	279.0	261.4	243.8	224.2	204.6	185.0	165.4	145.8	126.2	106.6	87.0
130°	249.0	232.5	216.0	198.6	181.2	163.8	146.4	129.1	111.7	94.3	76.9
132.5°	219.1	203.7	188.3	173.1	157.9	142.7	127.5	112.3	97.1	81.9	66.7
135°	192.7	178.6	164.5	151.3	138.1	124.9	111.7	98.4	85.2	72.0	58.8
137.5°	166.9	154.8	142.7	131.2	119.8	108.3	96.9	85.4	74.0	62.5	51.1
140°	141.2	131.0	120.9	111.0	101.1	91.2	81.3	71.3	61.4	51.5	41.6
142.5°	118.7	109.9	101.1	92.5	83.9	75.3	66.7	58.2	49.6	41.0	32.4
145°	100.2	92.7	85.2	77.9	70.7	63.4	56.1	48.9	41.6	34.3	27.1
147.5°	83.3	77.3	71.4	65.2	59.1	52.9	46.7	40.6	34.4	28.2	22.1
150°	67.2	62.3	57.5	52.7	47.8	43.0	38.1	33.3	28.4	23.6	18.7
152.5°	55.1	51.3	47.6	43.6	39.7	35.7	31.7	27.8	23.8	19.8	15.9
155°	41.9	38.8	35.7	32.8	30.0	27.1	24.2	21.4	18.5	15.6	12.8
157.5°	29.5	26.7	23.8	22.0	20.3	18.5	16.7	15.0	13.2	11.4	9.7
160°	19.9	17.9	15.9	14.8	13.7	12.6	11.5	10.3	9.2	8.1	7.0
162.5°	13.7	12.8	11.9	11.0	10.1	9.3	8.4	7.5	6.6	5.8	4.9
165°	8.8	8.3	7.9	7.5	7.0	6.6	6.2	5.7	5.3	4.9	4.4
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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1223.0	1226.7	1230.5	1234.2	1238.0	1241.7	1245.5	1249.2	1253.0	1256.7	1256.5
5°	1207.1	1211.9	1216.8	1221.6	1226.5	1231.3	1236.2	1241.0	1245.9	1250.7	1252.0
7.5°	1185.3	1191.5	1197.6	1203.8	1210.0	1216.1	1222.3	1228.5	1234.6	1240.8	1243.7
10°	1161.5	1168.5	1175.6	1182.6	1189.7	1196.7	1203.8	1210.8	1217.9	1224.9	1229.5
12.5°	1135.7	1143.6	1151.6	1159.5	1167.4	1175.4	1183.3	1191.2	1199.2	1207.1	1213.3
15°	1110.0	1118.4	1126.7	1135.1	1143.5	1151.8	1160.2	1168.6	1176.9	1185.3	1193.0
17.5°	1078.3	1087.3	1096.3	1105.4	1114.4	1123.4	1132.4	1141.5	1150.5	1159.5	1169.0
20°	1046.6	1055.6	1064.6	1073.7	1082.7	1091.7	1100.7	1109.8	1118.8	1127.8	1139.3
22.5°	1014.8	1023.4	1032.0	1040.6	1049.2	1057.7	1066.3	1074.9	1083.5	1092.1	1105.5
25°	977.2	986.2	995.2	1004.3	1013.3	1022.3	1031.3	1040.4	1049.4	1058.4	1073.6
27.5°	939.5	947.9	956.2	964.6	973.0	981.3	989.7	998.1	1006.4	1014.8	1032.2
30°	903.8	911.5	919.2	926.9	934.6	942.4	950.1	957.8	965.5	973.2	992.6
32.5°	870.1	876.9	883.8	890.6	897.4	904.3	911.1	917.9	924.8	931.6	952.7
35°	836.4	841.7	847.0	852.3	857.6	862.8	868.1	873.4	878.7	884.0	907.8
37.5°	804.7	808.2	811.7	815.3	818.8	822.3	825.8	829.4	832.9	836.4	862.8
40°	779.0	779.9	780.8	781.6	782.5	783.4	784.3	785.1	786.0	786.9	816.6
42.5°	757.2	755.0	752.8	750.6	748.4	746.1	743.9	741.7	739.5	737.3	770.3
45°	735.4	729.9	724.4	718.9	713.4	707.8	702.3	696.8	691.3	685.8	722.1
47.5°	713.6	705.0	696.4	687.8	679.2	670.7	662.1	653.5	644.9	636.3	676.2
50°	691.8	680.1	668.4	656.8	645.1	633.4	621.7	610.1	598.4	586.7	629.9
52.5°	671.9	656.9	642.0	627.0	612.0	597.1	582.1	567.1	552.2	537.2	584.1
55°	654.1	635.4	616.7	597.9	579.2	560.5	541.8	523.0	504.3	485.6	536.5
57.5°	636.3	614.3	592.2	570.2	548.2	526.1	504.1	482.1	460.0	438.0	492.6
60°	620.4	595.3	570.2	545.1	520.0	494.8	469.7	444.6	419.5	394.4	452.8
62.5°	604.5	576.3	548.1	519.9	491.7	463.6	435.4	407.2	379.0	350.8	412.7
65°	588.7	557.6	526.6	495.5	464.5	433.4	402.4	371.3	340.3	309.2	374.4
67.5°	570.8	537.3	503.9	470.4	436.9	403.5	370.0	336.5	303.1	269.6	337.4
70°	549.0	513.5	478.1	442.6	407.2	371.7	336.3	300.8	265.4	229.9	300.2
72.5°	525.3	488.3	451.3	414.3	377.3	340.3	303.3	266.3	229.3	192.3	264.1
75°	497.5	459.8	422.2	384.5	346.9	309.2	271.6	233.9	196.3	158.6	230.8
77.5°	461.8	424.4	386.9	349.5	312.1	274.6	237.2	199.8	162.3	124.9	196.9
80°	430.1	392.9	355.7	318.4	281.2	244.0	206.8	169.5	132.3	95.1	166.2
82.5°	396.4	359.6	322.8	286.1	249.3	212.5	175.7	139.0	102.2	65.4	134.8
85°	362.7	327.0	291.3	255.7	220.0	184.3	148.6	113.0	77.3	41.6	107.5
87.5°	329.0	294.4	259.8	225.3	190.7	156.1	121.5	87.0	52.4	17.8	80.6
90°	297.3	264.5	231.7	198.9	166.1	133.2	100.4	67.6	34.8	2.0	60.8
92.5°	275.5	245.1	214.7	184.3	153.9	123.6	93.2	62.8	32.4	2.0	56.0
95°	255.7	227.5	199.3	171.1	142.9	114.8	86.6	58.4	30.2	2.0	51.6
97.5°	237.9	211.7	185.5	159.3	133.1	106.8	80.6	54.4	28.2	2.0	47.4
100°	220.0	195.6	171.1	146.7	122.2	97.8	73.3	48.9	24.4	0.0	41.4
102.5°	202.2	180.0	157.7	135.5	113.2	91.0	68.7	46.5	24.2	2.0	39.2
105°	186.3	165.8	145.3	124.9	104.4	83.9	63.4	43.0	22.5	2.0	35.5
107.5°	170.5	151.8	133.1	114.3	95.6	76.9	58.2	39.4	20.7	2.0	31.9
110°	156.6	139.4	122.2	105.1	87.9	70.7	53.5	36.4	19.2	2.0	28.6



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	142.7	127.1	111.4	95.8	80.2	64.5	48.9	33.3	17.6	2.0	25.8
115°	128.8	114.7	100.6	86.5	72.4	58.4	44.3	30.2	16.1	2.0	23.4
117.5°	115.0	102.4	89.9	77.3	64.8	52.2	39.7	27.1	14.6	2.0	21.2
120°	101.1	89.9	78.6	67.4	56.2	44.9	33.7	22.5	11.2	0.0	17.4
122.5°	89.2	79.5	69.8	60.1	50.4	40.8	31.1	21.4	11.7	2.0	17.4
125°	77.3	68.9	60.6	52.2	43.8	35.5	27.1	18.7	10.4	2.0	15.4
127.5°	67.4	60.1	52.9	45.6	38.3	31.1	23.8	16.5	9.3	2.0	13.7
130°	59.5	53.1	46.7	40.3	33.9	27.6	21.2	14.8	8.4	2.0	11.9
132.5°	51.5	46.0	40.5	35.0	29.5	24.0	18.5	13.0	7.5	2.0	9.9
135°	45.6	40.8	35.9	31.1	26.2	21.4	16.5	11.7	6.8	2.0	8.2
137.5°	39.6	35.4	31.2	27.1	22.9	18.7	14.5	10.4	6.2	2.0	6.6
140°	31.7	28.4	25.1	21.8	18.5	15.2	11.9	8.6	5.3	2.0	5.1
142.5°	23.8	21.4	19.0	16.5	14.1	11.7	9.3	6.8	4.4	2.0	4.0
145°	19.8	17.8	15.8	13.9	11.9	9.9	7.9	6.0	4.0	2.0	3.3
147.5°	15.9	14.4	12.8	11.3	9.7	8.2	6.6	5.1	3.5	2.0	2.9
150°	13.9	12.6	11.3	9.9	8.6	7.3	6.0	4.6	3.3	2.0	2.4
152.5°	11.9	10.8	9.7	8.6	7.5	6.4	5.3	4.2	3.1	2.0	2.2
155°	9.9	9.0	8.1	7.3	6.4	5.5	4.6	3.8	2.9	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°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	1.8
165°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1256.3	1256.0	1255.8	1255.6	1255.4	1255.1	1254.9	1254.7	1256.0	1257.3	1258.7
5°	1253.3	1254.7	1256.0	1257.3	1258.6	1260.0	1261.3	1262.6	1265.2	1267.9	1270.5
7.5°	1246.5	1249.4	1252.3	1255.1	1258.0	1260.9	1263.7	1266.6	1270.6	1274.5	1278.5
10°	1234.2	1238.8	1243.4	1248.1	1252.7	1257.3	1262.0	1266.6	1272.1	1277.6	1283.1
12.5°	1219.4	1225.6	1231.8	1237.9	1244.1	1250.3	1256.4	1262.6	1269.6	1276.7	1283.7
15°	1200.7	1208.4	1216.1	1223.9	1231.6	1239.3	1247.0	1254.7	1263.7	1272.7	1281.8
17.5°	1178.5	1187.9	1197.4	1206.9	1216.4	1225.8	1235.3	1244.8	1255.8	1266.8	1277.8
20°	1150.7	1162.2	1173.6	1185.1	1196.5	1208.0	1219.4	1230.9	1244.3	1257.8	1271.2
22.5°	1119.0	1132.4	1145.8	1159.3	1172.7	1186.1	1199.6	1213.0	1229.7	1246.5	1263.2
25°	1088.8	1104.0	1119.2	1134.4	1149.6	1164.8	1180.0	1195.2	1215.9	1236.6	1257.3
27.5°	1049.6	1067.0	1084.4	1101.8	1119.2	1136.6	1154.0	1171.4	1196.1	1220.7	1245.4
30°	1012.0	1031.3	1050.7	1070.1	1089.5	1108.8	1128.2	1147.6	1176.7	1205.8	1234.8
32.5°	973.9	995.0	1016.2	1037.3	1058.5	1079.6	1100.8	1121.9	1155.2	1188.4	1221.7
35°	931.6	955.4	979.2	1002.9	1026.7	1050.5	1074.3	1098.1	1135.8	1173.4	1211.1
37.5°	889.3	915.7	942.1	968.6	995.0	1021.4	1047.9	1074.3	1116.4	1158.4	1200.5
40°	846.4	876.1	905.8	935.6	965.3	995.0	1024.8	1054.5	1101.0	1147.4	1193.9
42.5°	803.4	836.4	869.5	902.5	935.6	968.6	1001.7	1034.7	1086.0	1137.3	1188.6
45°	758.5	794.8	831.2	867.5	903.9	940.2	976.6	1012.9	1069.3	1125.7	1182.0
47.5°	716.0	755.9	795.7	835.6	875.4	915.3	955.1	995.0	1057.1	1119.2	1181.3
50°	673.0	716.2	759.4	802.5	845.7	888.9	932.0	975.2	1043.9	1112.6	1181.3
52.5°	631.0	677.9	724.8	771.7	818.6	865.5	912.4	959.3	1034.8	1110.4	1185.9
55°	587.4	638.2	689.1	740.0	790.9	841.7	892.6	943.5	1026.7	1110.0	1193.2
57.5°	547.2	601.9	656.5	711.1	765.7	820.4	875.0	929.6	1021.4	1113.3	1205.1
60°	511.1	569.5	627.9	686.2	744.6	803.0	861.3	919.7	1020.1	1120.5	1221.0
62.5°	474.6	536.5	598.4	660.2	722.1	784.0	845.9	907.8	1017.0	1126.3	1235.5
65°	439.6	504.8	570.0	635.1	700.3	765.5	830.7	895.9	1013.5	1131.1	1248.7
67.5°	405.3	473.1	540.9	608.8	676.6	744.4	812.3	880.1	1005.4	1130.7	1256.0
70°	370.4	440.7	510.9	581.2	651.4	721.7	791.9	862.2	992.6	1123.0	1253.3
72.5°	335.9	407.7	479.5	551.2	623.0	694.8	766.6	838.4	971.0	1103.6	1236.2
75°	303.1	375.3	447.5	519.8	592.0	664.2	736.5	808.7	940.6	1072.5	1204.5
77.5°	268.9	340.9	412.9	485.0	557.0	629.0	701.0	773.0	901.0	1028.9	1156.9
80°	237.4	308.5	379.7	450.8	522.0	593.1	664.3	735.4	855.4	975.4	1095.5
82.5°	204.2	273.5	342.9	412.3	481.7	551.0	620.4	689.8	802.8	915.8	1028.7
85°	173.3	239.2	305.0	370.9	436.7	502.6	568.4	634.3	738.2	842.2	946.1
87.5°	143.3	206.1	268.9	331.6	394.4	457.2	519.9	582.7	677.0	771.2	865.5
90°	119.6	178.4	237.2	296.0	354.8	413.6	472.4	531.2	615.6	699.9	784.3
92.5°	109.9	163.9	217.8	271.8	325.7	379.7	433.6	487.6	565.6	643.5	721.5
95°	101.1	150.7	200.2	249.8	299.3	348.9	398.4	448.0	519.8	591.6	663.4
97.5°	92.7	138.1	183.5	228.8	274.2	319.6	364.9	410.3	477.0	543.8	610.5
100°	82.8	124.2	165.6	207.0	248.4	289.8	331.2	372.6	435.4	498.1	560.9
102.5°	76.4	113.7	150.9	188.1	225.3	262.6	299.8	337.0	396.7	456.4	516.0
105°	69.0	102.4	135.9	169.4	202.9	236.3	269.8	303.3	360.3	417.4	474.4
107.5°	61.9	91.8	121.8	151.7	181.7	211.6	241.6	271.5	326.3	381.2	436.0
110°	55.3	81.9	108.6	135.2	161.9	188.5	215.2	241.8	294.0	346.2	398.4



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	49.6	73.3	97.1	120.9	144.7	168.4	192.2	216.0	266.0	316.0	366.0
115°	44.7	66.1	87.4	108.8	130.1	151.5	172.8	194.2	241.8	289.4	336.9
117.5°	40.3	59.5	78.6	97.8	116.9	136.1	155.2	174.4	219.1	263.8	308.5
120°	34.8	52.2	69.6	87.0	104.4	121.8	139.2	156.6	197.8	239.0	280.1
122.5°	32.8	48.2	63.6	79.1	94.5	109.9	125.3	140.7	177.5	214.3	251.0
125°	28.9	42.3	55.7	69.2	82.6	96.0	109.5	122.9	156.4	189.9	223.3
127.5°	25.3	37.0	48.7	60.3	72.0	83.7	95.3	107.0	137.2	167.4	197.5
130°	21.8	31.7	41.6	51.6	61.5	71.4	81.3	91.2	117.4	143.6	169.8
132.5°	17.8	25.8	33.7	41.6	49.5	57.5	65.4	73.3	96.0	118.7	141.4
135°	14.3	20.5	26.7	32.8	39.0	45.2	51.3	57.5	77.3	97.1	117.0
137.5°	11.2	15.9	20.5	25.1	29.7	34.4	39.0	43.6	60.8	78.0	95.1
140°	8.2	11.2	14.3	17.4	20.5	23.5	26.6	29.7	44.9	60.1	75.3
142.5°	6.0	7.9	9.9	11.9	13.9	15.8	17.8	19.8	32.8	45.8	58.8
145°	4.6	6.0	7.3	8.6	9.9	11.3	12.6	13.9	24.5	35.0	45.6
147.5°	3.8	4.6	5.5	6.4	7.3	8.1	9.0	9.9	18.5	27.1	35.7
150°	2.9	3.3	3.7	4.2	4.6	5.0	5.5	5.9	12.5	19.1	25.7
152.5°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	8.6	13.2	17.9
155°	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	6.9	9.7	12.6
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.5	5.1	6.6
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°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.2	0.4	0.7
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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1260.0	1261.3	1262.6	1264.0	1265.3	1266.6	1267.0	1267.5	1267.9	1268.3	1268.8
5°	1273.2	1275.8	1278.5	1281.1	1283.8	1286.4	1287.7	1289.0	1290.4	1291.7	1293.0
7.5°	1282.4	1286.4	1290.3	1294.3	1298.2	1302.2	1304.8	1307.5	1310.1	1312.8	1315.4
10°	1288.6	1294.1	1299.6	1305.1	1310.6	1316.1	1320.1	1324.0	1328.0	1332.0	1335.9
12.5°	1290.8	1297.8	1304.9	1311.9	1319.0	1326.0	1331.5	1337.0	1342.5	1348.0	1353.6
15°	1290.8	1299.8	1308.8	1317.9	1326.9	1335.9	1342.7	1349.6	1356.4	1363.2	1370.1
17.5°	1288.8	1299.9	1310.9	1321.9	1332.9	1343.9	1353.4	1362.8	1372.3	1381.8	1391.2
20°	1284.6	1298.1	1311.5	1324.9	1338.4	1351.8	1364.1	1376.5	1388.8	1401.1	1413.5
22.5°	1280.0	1296.7	1313.5	1330.2	1347.0	1363.7	1378.7	1393.7	1408.6	1423.6	1438.6
25°	1278.0	1298.7	1319.4	1340.1	1360.8	1381.5	1398.2	1415.0	1431.7	1448.5	1465.2
27.5°	1270.1	1294.7	1319.4	1344.1	1368.7	1393.4	1412.3	1431.3	1450.2	1469.2	1488.1
30°	1263.9	1293.0	1322.1	1351.1	1380.2	1409.3	1430.9	1452.5	1474.0	1495.6	1517.2
32.5°	1254.9	1288.2	1321.4	1354.7	1387.9	1421.2	1445.4	1469.6	1493.9	1518.1	1542.3
35°	1248.7	1286.4	1324.0	1361.7	1399.3	1437.0	1464.5	1492.1	1519.6	1547.1	1574.7
37.5°	1242.6	1284.6	1326.7	1368.8	1410.8	1452.9	1484.6	1516.3	1548.0	1579.7	1611.5
40°	1240.4	1286.8	1333.3	1379.8	1426.2	1472.7	1509.9	1547.1	1584.4	1621.6	1658.8
42.5°	1239.9	1291.3	1342.6	1393.9	1445.2	1496.5	1539.4	1582.4	1625.3	1668.3	1711.2
45°	1238.4	1294.8	1351.2	1407.5	1463.9	1520.3	1569.8	1619.4	1668.9	1718.5	1768.0
47.5°	1243.4	1305.6	1367.7	1429.8	1491.9	1554.0	1610.4	1666.8	1723.1	1779.5	1835.9
50°	1250.0	1318.8	1387.5	1456.2	1524.9	1593.6	1659.0	1724.4	1789.8	1855.2	1920.7
52.5°	1261.5	1337.0	1412.6	1488.1	1563.7	1639.2	1712.5	1785.9	1859.2	1932.5	2005.9
55°	1276.5	1359.7	1443.0	1526.2	1609.5	1692.7	1774.6	1856.6	1938.5	2020.4	2102.4
57.5°	1296.9	1388.8	1480.6	1572.4	1664.3	1756.1	1845.7	1935.4	2025.0	2114.7	2204.3
60°	1321.4	1421.8	1522.2	1622.7	1723.1	1823.5	1920.0	2016.4	2112.9	2209.4	2305.8
62.5°	1344.7	1454.0	1563.2	1672.4	1781.7	1890.9	1993.3	2095.7	2198.1	2300.5	2403.0
65°	1366.3	1484.0	1601.6	1719.2	1836.8	1954.4	2061.0	2167.6	2274.2	2380.8	2487.3
67.5°	1381.3	1506.7	1632.0	1757.3	1882.6	2007.9	2115.8	2223.7	2331.6	2439.5	2547.5
70°	1383.7	1514.1	1644.5	1774.8	1905.2	2035.6	2143.1	2250.6	2358.0	2465.5	2573.0
72.5°	1368.8	1501.3	1633.9	1766.5	1899.1	2031.7	2136.5	2241.3	2346.2	2451.0	2555.8
75°	1336.4	1468.3	1600.2	1732.2	1864.1	1996.0	2096.0	2196.0	2296.0	2396.0	2495.9
77.5°	1284.8	1412.8	1540.7	1668.7	1796.6	1924.6	2018.0	2111.4	2204.7	2298.1	2391.5
80°	1215.5	1335.5	1455.5	1575.6	1695.6	1815.6	1902.6	1989.6	2076.6	2163.6	2250.5
82.5°	1141.7	1254.7	1367.7	1480.6	1593.6	1706.6	1783.9	1861.2	1938.5	2015.8	2093.1
85°	1050.1	1154.0	1258.0	1361.9	1465.9	1569.8	1639.2	1708.6	1777.9	1847.3	1916.7
87.5°	959.8	1054.0	1148.3	1242.6	1336.8	1431.1	1493.4	1555.7	1618.1	1680.4	1742.7
90°	868.6	953.0	1037.3	1121.7	1206.0	1290.4	1348.3	1406.2	1464.1	1522.0	1580.0
92.5°	799.5	877.4	955.4	1033.4	1111.3	1189.3	1241.5	1293.7	1345.9	1398.1	1450.2
95°	735.2	806.9	878.7	950.5	1022.3	1094.1	1143.2	1192.3	1241.4	1290.5	1339.7
97.5°	677.2	744.0	810.7	877.4	944.2	1010.9	1057.4	1103.8	1150.3	1196.8	1243.2
100°	623.7	686.4	749.2	812.0	874.7	937.5	982.4	1027.4	1072.3	1117.2	1162.2
102.5°	575.7	635.4	695.1	754.7	814.4	874.1	918.4	962.6	1006.9	1051.2	1095.4
105°	531.4	588.5	645.5	702.5	759.6	816.6	860.2	903.8	947.4	991.0	1034.7
107.5°	490.9	545.7	600.6	655.4	710.3	765.1	808.0	851.0	893.9	936.9	979.8
110°	450.6	502.8	555.0	607.2	659.4	711.6	754.3	797.0	839.8	882.5	925.2



TEST NUMBER: P201390

CATALOG NUMBER: 8LBLED-LD4-10-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°	416.0	466.0	516.0	566.0	616.0	666.0	707.4	748.8	790.2	831.6	873.0
115°	384.5	432.1	479.7	527.2	574.8	622.4	661.8	701.2	740.7	780.1	819.5
117.5°	353.2	398.0	442.7	487.4	532.1	576.8	614.7	652.6	690.4	728.3	766.2
120°	321.3	362.5	403.7	444.8	486.0	527.2	564.4	601.6	638.9	676.1	713.3
122.5°	287.8	324.6	361.4	398.1	434.9	471.7	508.7	545.7	582.7	619.7	656.7
125°	256.8	290.3	323.8	357.2	390.7	424.2	459.2	494.2	529.2	564.2	599.3
127.5°	227.7	257.9	288.1	318.2	348.4	378.6	410.8	442.9	475.1	507.2	539.4
130°	196.0	222.2	248.4	274.6	300.8	327.0	356.5	386.0	415.5	445.0	474.6
132.5°	164.1	186.7	209.4	232.1	254.8	277.5	304.8	332.1	359.4	386.7	414.1
135°	136.8	156.6	176.4	196.3	216.1	235.9	260.6	285.2	309.9	334.6	359.2
137.5°	112.3	129.5	146.7	163.8	181.0	198.2	220.0	241.8	263.6	285.4	307.2
140°	90.5	105.7	120.9	136.1	151.3	166.5	184.6	202.6	220.7	238.7	256.8
142.5°	71.8	84.8	97.8	110.8	123.8	136.8	152.0	167.2	182.4	197.6	212.7
145°	56.2	66.7	77.3	87.9	98.4	109.0	122.0	135.0	148.0	161.0	174.0
147.5°	44.3	52.8	61.4	70.0	78.6	87.2	97.6	107.9	118.3	128.6	139.0
150°	32.3	39.0	45.6	52.2	58.8	65.4	74.0	82.6	91.2	99.8	108.3
152.5°	22.5	27.1	31.7	36.4	41.0	45.6	52.4	59.2	66.1	72.9	79.7
155°	15.4	18.3	21.1	24.0	26.8	29.7	35.0	40.3	45.6	50.9	56.1
157.5°	8.2	9.7	11.3	12.8	14.4	15.9	19.9	23.8	27.8	31.7	35.7
160°	4.6	5.3	5.9	6.6	7.2	7.9	10.3	12.7	15.2	17.6	20.0
162.5°	0.9	1.1	1.3	1.6	1.8	2.0	3.1	4.2	5.3	6.4	7.5
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: P201390

CATALOG NUMBER: 8LBLELD4-10-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°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1269.2	1269.6	1270.1	1270.5	1269.0	1267.4	1265.9	1264.4	1262.8	1261.3	1259.8
5°	1294.3	1295.7	1297.0	1298.3	1297.9	1297.4	1297.0	1296.5	1296.1	1295.6	1295.2
7.5°	1318.1	1320.7	1323.4	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
10°	1339.9	1343.9	1347.8	1351.8	1351.8	1351.8	1351.8	1351.8	1351.8	1351.8	1351.8
12.5°	1359.1	1364.6	1370.1	1375.6	1376.5	1377.4	1378.2	1379.1	1380.0	1380.9	1381.7
15°	1376.9	1383.7	1390.6	1397.4	1399.2	1400.9	1402.7	1404.4	1406.2	1407.9	1409.7
17.5°	1400.7	1410.2	1419.6	1429.1	1432.0	1434.8	1437.7	1440.6	1443.4	1446.3	1449.2
20°	1425.8	1438.1	1450.5	1462.8	1466.5	1470.3	1474.0	1477.8	1481.5	1485.3	1489.0
22.5°	1453.6	1468.5	1483.5	1498.5	1502.7	1506.9	1511.0	1515.2	1519.4	1523.6	1527.7
25°	1482.0	1498.7	1515.5	1532.2	1537.5	1542.8	1548.0	1553.3	1558.6	1563.9	1569.1
27.5°	1507.1	1526.0	1545.0	1563.9	1570.5	1577.1	1583.7	1590.3	1596.9	1603.5	1610.1
30°	1538.8	1560.3	1581.9	1603.5	1610.8	1618.0	1625.3	1632.6	1639.8	1647.1	1654.4
32.5°	1566.5	1590.8	1615.0	1639.2	1648.4	1657.7	1666.9	1676.2	1685.4	1694.7	1703.9
35°	1602.2	1629.7	1657.3	1684.8	1696.5	1708.1	1719.8	1731.5	1743.1	1754.8	1766.5
37.5°	1643.2	1674.9	1706.6	1738.3	1752.4	1766.5	1780.6	1794.7	1808.8	1822.9	1837.0
40°	1696.0	1733.3	1770.5	1807.7	1823.8	1839.9	1855.9	1872.0	1888.1	1904.2	1920.2
42.5°	1754.2	1797.1	1840.1	1883.0	1901.7	1920.4	1939.2	1957.9	1976.6	1995.3	2014.1
45°	1817.6	1867.1	1916.7	1966.2	1988.4	2010.7	2032.9	2055.2	2077.4	2099.7	2121.9
47.5°	1892.3	1948.6	2005.0	2061.4	2087.8	2114.2	2140.7	2167.1	2193.5	2219.9	2246.4
50°	1986.1	2051.5	2116.9	2182.3	2211.4	2240.4	2269.5	2298.6	2327.6	2356.7	2385.8
52.5°	2079.2	2152.5	2225.9	2299.2	2331.8	2364.4	2397.0	2429.6	2462.2	2494.8	2527.4
55°	2184.3	2266.2	2348.2	2430.1	2465.1	2500.1	2535.1	2570.1	2605.2	2640.2	2675.2
57.5°	2294.0	2383.6	2473.3	2562.9	2600.1	2637.3	2674.5	2711.7	2749.0	2786.2	2823.4
60°	2402.3	2498.8	2595.2	2691.7	2728.9	2766.1	2803.4	2840.6	2877.8	2915.0	2952.3
62.5°	2505.4	2607.8	2710.2	2812.6	2850.5	2888.4	2926.2	2964.1	3002.0	3039.9	3077.7
65°	2593.9	2700.5	2807.1	2913.7	2950.0	2986.4	3022.7	3059.0	3095.4	3131.7	3168.0
67.5°	2655.4	2763.3	2871.2	2979.1	3013.5	3047.8	3082.2	3116.5	3150.9	3185.2	3219.6
70°	2680.5	2787.9	2895.4	3002.9	3035.5	3068.1	3100.7	3133.3	3165.8	3198.4	3231.0
72.5°	2660.6	2765.5	2870.3	2975.1	3006.2	3037.2	3068.3	3099.3	3130.4	3161.4	3192.5
75°	2595.9	2695.9	2795.9	2895.9	2925.4	2954.9	2984.4	3013.9	3043.5	3073.0	3102.5
77.5°	2484.9	2578.2	2671.6	2765.0	2793.2	2821.4	2849.6	2877.8	2905.9	2934.1	2962.3
80°	2337.5	2424.5	2511.5	2598.5	2624.9	2651.4	2677.8	2704.2	2730.7	2757.1	2783.5
82.5°	2170.4	2247.7	2325.0	2402.3	2427.6	2453.0	2478.3	2503.6	2529.0	2554.3	2579.6
85°	1986.1	2055.4	2124.8	2194.2	2218.2	2242.2	2266.2	2290.2	2314.2	2338.2	2362.2
87.5°	1805.0	1867.4	1929.7	1992.0	2014.5	2036.9	2059.4	2081.9	2104.3	2126.8	2149.3
90°	1637.9	1695.8	1753.7	1811.6	1832.7	1853.9	1875.0	1896.2	1917.3	1938.5	1959.6
92.5°	1502.4	1554.6	1606.8	1659.0	1678.8	1698.6	1718.5	1738.3	1758.1	1777.9	1797.8
95°	1388.8	1437.9	1487.0	1536.1	1554.6	1573.1	1591.6	1610.1	1628.6	1647.1	1665.6
97.5°	1289.7	1336.2	1382.6	1429.1	1446.9	1464.8	1482.6	1500.4	1518.3	1536.1	1553.9
100°	1207.1	1252.0	1297.0	1341.9	1359.3	1376.7	1394.1	1411.5	1428.9	1446.3	1463.7
102.5°	1139.7	1184.0	1228.2	1272.5	1289.5	1306.4	1323.4	1340.3	1357.3	1374.2	1391.2
105°	1078.3	1121.9	1165.5	1209.1	1225.8	1242.6	1259.3	1276.0	1292.8	1309.5	1326.2
107.5°	1022.8	1065.7	1108.7	1151.6	1168.1	1184.6	1201.2	1217.7	1234.2	1250.7	1267.3
110°	967.9	1010.7	1053.4	1096.1	1112.6	1129.1	1145.7	1162.2	1178.7	1195.2	1211.8



TEST NUMBER: P201390

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

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	914.4	955.8	997.2	1038.6	1054.7	1070.8	1086.8	1102.9	1119.0	1135.1	1151.1
115°	858.9	898.4	937.8	977.2	992.8	1008.5	1024.1	1039.7	1055.4	1071.0	1086.6
117.5°	804.1	841.9	879.8	917.7	932.7	947.7	962.6	977.6	992.6	1007.6	1022.5
120°	750.5	787.8	825.0	862.2	876.3	890.4	904.5	918.6	932.7	946.8	960.9
122.5°	693.7	730.7	767.7	804.7	818.6	832.5	846.3	860.2	874.1	888.0	901.8
125°	634.3	669.3	704.3	739.3	753.4	767.5	781.6	795.7	809.8	823.9	838.0
127.5°	571.5	603.7	635.8	668.0	682.1	696.2	710.3	724.4	738.4	752.5	766.6
130°	504.1	533.6	563.1	592.6	606.0	619.5	632.9	646.4	659.8	673.3	686.7
132.5°	441.4	468.7	496.0	523.3	535.2	547.1	559.0	570.9	582.7	594.6	606.5
135°	383.9	408.6	433.2	457.9	467.8	477.7	487.6	497.5	507.5	517.4	527.3
137.5°	329.0	350.8	372.6	394.4	403.2	412.0	420.8	429.6	438.5	447.3	456.1
140°	274.8	292.9	310.9	329.0	338.0	347.1	356.1	365.1	374.2	383.2	392.2
142.5°	227.9	243.1	258.3	273.5	282.3	291.1	299.9	308.7	317.6	326.4	335.2
145°	187.0	200.0	213.0	226.0	234.6	243.2	251.8	260.4	268.9	277.5	286.1
147.5°	149.3	159.7	170.0	180.4	189.2	198.0	206.8	215.6	224.5	233.3	242.1
150°	116.9	125.5	134.1	142.7	150.8	159.0	167.1	175.3	183.4	191.6	199.7
152.5°	86.5	93.4	100.2	107.0	114.7	122.4	130.1	137.8	145.6	153.3	161.0
155°	61.4	66.7	72.0	77.3	84.1	90.9	97.8	104.6	111.4	118.2	125.1
157.5°	39.6	43.6	47.5	51.5	57.2	63.0	68.7	74.4	80.2	85.9	91.6
160°	22.4	24.9	27.3	29.7	34.1	38.5	42.9	47.3	51.8	56.2	60.6
162.5°	8.6	9.7	10.8	11.9	15.2	18.5	21.8	25.1	28.4	31.7	35.0
165°	1.3	1.6	1.8	2.0	3.8	5.5	7.3	9.0	10.8	12.5	14.3
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: P201390

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1236.8	1236.8
2.5°	1258.2	1256.7
5°	1294.7	1294.3
7.5°	1326.0	1326.0
10°	1351.8	1351.8
12.5°	1382.6	1383.5
15°	1411.4	1413.2
17.5°	1452.0	1454.9
20°	1492.8	1496.5
22.5°	1531.9	1536.1
25°	1574.4	1579.7
27.5°	1616.7	1623.3
30°	1661.6	1668.9
32.5°	1713.2	1722.4
35°	1778.1	1789.8
37.5°	1851.1	1865.2
40°	1936.3	1952.4
42.5°	2032.8	2051.5
45°	2144.2	2166.4
47.5°	2272.8	2299.2
50°	2414.8	2443.9
52.5°	2560.0	2592.6
55°	2710.2	2745.2
57.5°	2860.6	2897.8
60°	2989.5	3026.7
62.5°	3115.6	3153.5
65°	3204.4	3240.7
67.5°	3253.9	3288.3
70°	3263.6	3296.2
72.5°	3223.5	3254.6
75°	3132.0	3161.5
77.5°	2990.5	3018.7
80°	2810.0	2836.4
82.5°	2605.0	2630.3
85°	2386.2	2410.2
87.5°	2171.7	2194.2
90°	1980.8	2001.9
92.5°	1817.6	1837.4
95°	1684.1	1702.6
97.5°	1571.8	1589.6
100°	1481.1	1498.5
102.5°	1408.1	1425.1
105°	1343.0	1359.7
107.5°	1283.8	1300.3
110°	1228.3	1244.8



TEST NUMBER: P201390

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

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1167.2	1183.3
115°	1102.3	1117.9
117.5°	1037.5	1052.5
120°	975.0	989.1
122.5°	915.7	929.6
125°	852.1	866.2
127.5°	780.7	794.8
130°	700.2	713.6
132.5°	618.4	630.3
135°	537.2	547.1
137.5°	464.9	473.7
140°	401.3	410.3
142.5°	344.0	352.8
145°	294.7	303.3
147.5°	250.9	259.7
150°	207.9	216.0
152.5°	168.7	176.4
155°	131.9	138.7
157.5°	97.4	103.1
160°	65.0	69.4
162.5°	38.3	41.6
165°	16.0	17.8
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)