

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: P201389

Luminaire Tested: **8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28238)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U
Description: 8 ft. Low Bay Linear, 6000 lm, Frst Asym lens, 5K
Light Source: (616) 5000K CCT, 80 CRI LEDS
2UT217098A8504C, 2UT217056A8504B
Ballast/Driver: OSRAM
(OT50W0880CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10041.0 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 2.05 / 1.17 / 1.8
Luminous Opening: Rectangular w/ Sides (W: 8' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

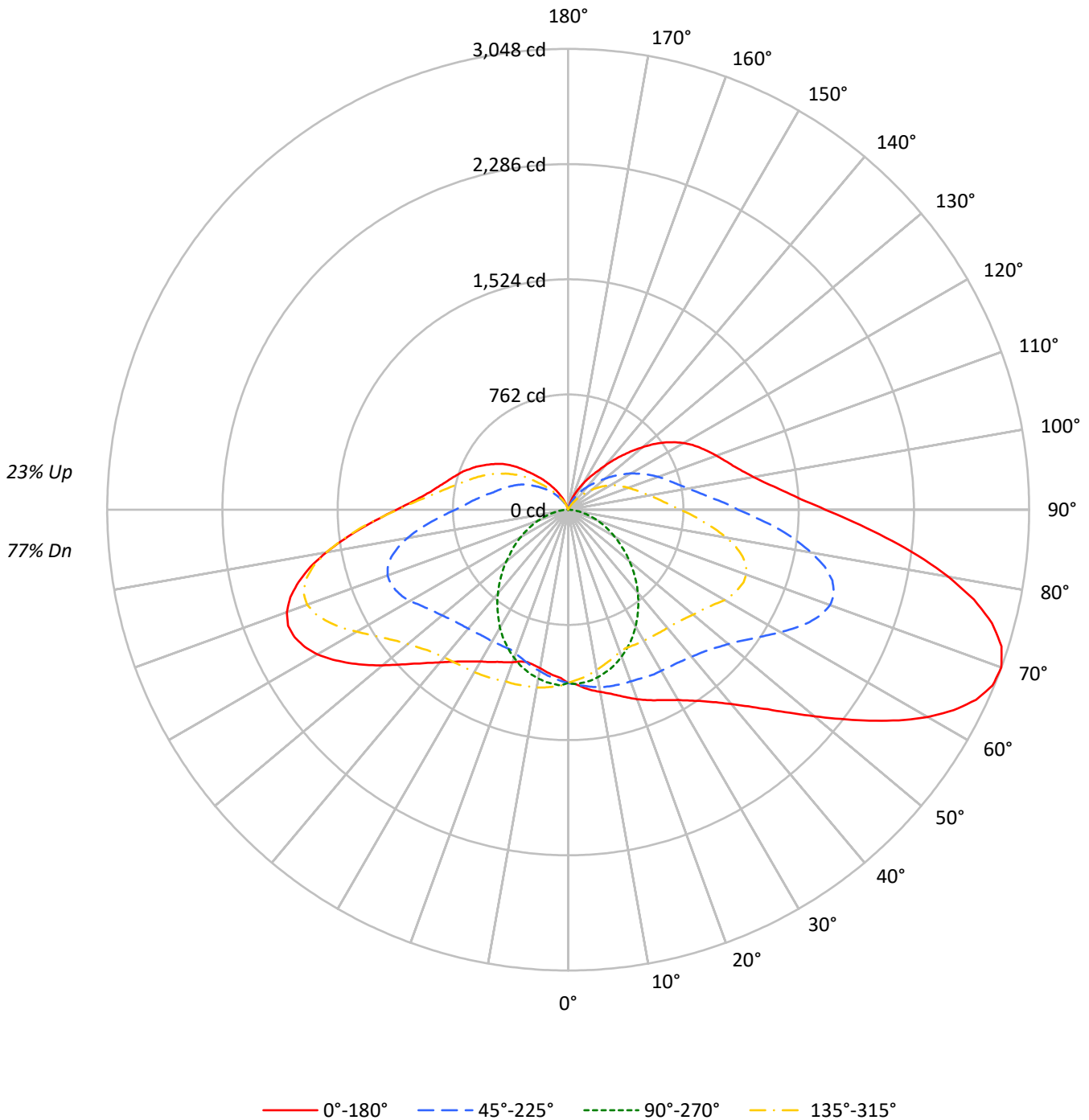
Input Watts (W): 65.59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-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	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	60	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	26	23
5	63	49	38	31	59	46	36	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	53	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	16	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°	9234	9234	9234	9234
5°	8617	9265	8024	9333
10°	8206	9163	7142	9232
15°	7951	9010	6528	9079
20°	7870	8777	6331	8866
25°	7819	8508	6246	8581
30°	7863	8170	6270	8266
35°	8116	7784	6438	7865
40°	8621	7371	6775	7435
45°	9470	6909	7309	6979
50°	10722	6422	8079	6522
55°	12294	5909	8938	6051
60°	14000	5440	9770	5602
65°	15449	4977	10364	5126
70°	16237	4452	10543	4637
75°	15993	3851	10171	4086
80°	14679	3207	9345	3461
85°	12780	2231	8284	2530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.1
10°-20°	317.6	3.2
20°-30°	512.7	5.1
30°-40°	696.4	6.9
40°-50°	900.7	9.0
50°-60°	1165.9	11.6
60°-70°	1433.6	14.3
70°-80°	1449.5	14.4
80°-90°	1115.6	11.1
90°-100°	772.8	7.7
100°-110°	579.0	5.8
110°-120°	436.5	4.3
120°-130°	296.1	2.9
130°-140°	161.9	1.6
140°-150°	69.5	0.7
150°-160°	21.6	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	939.1	9.4
0°-40°	1635.5	16.3
0°-60°	3702.2	36.9
0°-90°	7700.9	76.7
90°-120°	1788.3	17.8
90°-150°	2315.7	23.1
90°-180°	2340.0	23.3
0°-180°	10041.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1146	1146	1146	1146	1146	
5°	1182	1148	1100	1157	1182	114
15°	1271	1088	1044	1096	1271	363
25°	1390	969	1111	977	1390	646
35°	1545	806	1226	814	1545	978
45°	1866	622	1440	628	1866	1460
55°	2432	436	1768	447	2432	2188
65°	2975	276	1996	284	2975	2925
75°	2902	136	1846	144	2902	3027
85°	2106	31	1365	36	2106	1813
90°	1699	0	1134	2	1699	936
95°	1428	0	973	0	1428	1129
105°	1127	0	800	0	1127	1200
115°	967	0	672	2	967	959
125°	774	0	528	2	774	693
135°	509	0	336	2	509	399
145°	280	0	188	2	280	180
155°	138	0	75	2	138	66
165°	40	0	0	4	40	11
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1154.5	1154.3	1154.0	1153.8	1153.6	1153.3	1153.1	1152.9	1152.6	1152.4	1153.1
5°	1181.6	1180.2	1178.8	1177.4	1176.0	1174.7	1173.3	1171.9	1170.5	1169.1	1169.1
7.5°	1204.6	1203.0	1201.4	1199.7	1198.1	1196.5	1194.9	1193.2	1191.6	1190.0	1189.1
10°	1223.4	1221.3	1219.2	1217.1	1215.0	1213.0	1210.9	1208.8	1206.7	1204.6	1203.2
12.5°	1244.2	1241.7	1239.1	1236.6	1234.0	1231.5	1228.9	1226.4	1223.8	1221.3	1218.7
15°	1271.4	1268.2	1264.9	1261.7	1258.4	1255.2	1251.9	1248.7	1245.4	1242.2	1237.8
17.5°	1302.7	1298.8	1294.8	1290.9	1286.9	1283.0	1279.0	1275.1	1271.1	1267.2	1260.5
20°	1334.0	1328.9	1323.8	1318.7	1313.6	1308.5	1303.4	1298.3	1293.2	1288.1	1279.3
22.5°	1363.2	1357.4	1351.6	1345.8	1340.0	1334.2	1328.4	1322.6	1316.8	1311.0	1300.1
25°	1390.4	1384.1	1377.9	1371.6	1365.3	1359.1	1352.8	1346.5	1340.3	1334.0	1321.2
27.5°	1419.6	1412.9	1406.2	1399.4	1392.7	1386.0	1379.3	1372.5	1365.8	1359.1	1344.5
30°	1453.0	1445.1	1437.2	1429.3	1421.4	1413.6	1405.7	1397.8	1389.9	1382.0	1365.1
32.5°	1496.8	1487.5	1478.2	1469.0	1459.7	1450.4	1441.1	1431.9	1422.6	1413.3	1393.6
35°	1544.9	1534.2	1523.5	1512.9	1502.2	1491.5	1480.8	1470.2	1459.5	1448.8	1425.8
37.5°	1605.4	1592.9	1580.4	1567.8	1555.3	1542.8	1530.3	1517.7	1505.2	1492.7	1466.3
40°	1676.4	1662.2	1648.1	1633.9	1619.8	1605.6	1591.5	1577.3	1563.2	1549.0	1517.9
42.5°	1764.1	1747.4	1730.7	1714.0	1697.3	1680.6	1663.9	1647.2	1630.5	1613.8	1577.6
45°	1866.4	1846.9	1827.4	1807.9	1788.4	1769.0	1749.5	1730.0	1710.5	1691.0	1648.8
47.5°	1987.4	1964.9	1942.4	1919.9	1897.4	1874.9	1852.4	1829.9	1807.4	1784.9	1736.0
50°	2125.2	2099.7	2074.2	2048.7	2023.2	1997.6	1972.1	1946.6	1921.1	1895.6	1838.5
52.5°	2273.5	2245.2	2216.9	2188.6	2160.3	2132.0	2103.7	2075.4	2047.1	2018.8	1953.2
55°	2432.1	2401.3	2370.4	2339.6	2308.7	2277.9	2247.0	2216.2	2185.3	2154.5	2080.3
57.5°	2592.9	2560.0	2527.0	2494.1	2461.1	2428.2	2395.2	2362.3	2329.3	2296.4	2213.4
60°	2743.2	2709.6	2675.9	2642.3	2608.7	2575.0	2541.4	2507.8	2474.1	2440.5	2349.3
62.5°	2872.6	2839.0	2805.3	2771.7	2738.1	2704.4	2670.8	2637.2	2603.5	2569.9	2472.5
65°	2974.9	2942.0	2909.0	2876.1	2843.2	2810.2	2777.3	2744.4	2711.4	2678.5	2576.4
67.5°	3037.5	3005.5	2973.5	2941.5	2909.5	2877.4	2845.4	2813.4	2781.4	2749.4	2645.3
70°	3048.0	3017.6	2987.2	2956.8	2926.4	2896.1	2865.7	2835.3	2804.9	2774.5	2671.0
72.5°	3004.1	2975.6	2947.0	2918.5	2890.0	2861.4	2832.9	2804.4	2775.8	2747.3	2646.9
75°	2901.8	2875.1	2848.5	2821.8	2795.1	2768.5	2741.8	2715.1	2688.5	2661.8	2566.9
77.5°	2747.3	2722.3	2697.2	2672.2	2647.1	2622.1	2597.0	2572.0	2546.9	2521.9	2434.7
80°	2551.1	2530.2	2509.3	2488.5	2467.6	2446.7	2425.8	2405.0	2384.1	2363.2	2282.0
82.5°	2334.0	2315.0	2296.0	2276.9	2257.9	2238.9	2219.9	2200.8	2181.8	2162.8	2090.7
85°	2106.4	2089.2	2072.1	2054.9	2037.8	2020.6	2003.5	1986.3	1969.2	1952.0	1888.9
87.5°	1889.3	1873.5	1857.8	1842.0	1826.2	1810.5	1794.7	1778.9	1763.2	1747.4	1691.5
90°	1699.3	1684.5	1669.6	1654.8	1639.9	1625.1	1610.2	1595.4	1580.5	1565.7	1516.5
92.5°	1542.8	1529.1	1515.4	1501.7	1488.0	1474.4	1460.7	1447.0	1433.3	1419.6	1376.7
95°	1428.0	1414.1	1400.2	1386.2	1372.3	1358.4	1344.5	1330.5	1316.6	1302.7	1262.3
97.5°	1323.6	1310.4	1297.2	1283.9	1270.7	1257.5	1244.3	1231.0	1217.8	1204.6	1167.3
100°	1244.2	1231.4	1218.7	1205.9	1193.2	1180.4	1167.7	1154.9	1142.2	1129.4	1093.4
102.5°	1179.5	1167.2	1154.9	1142.6	1130.3	1118.1	1105.8	1093.5	1081.2	1068.9	1033.9
105°	1127.3	1115.2	1103.2	1091.1	1079.1	1067.0	1055.0	1042.9	1030.9	1018.8	984.5
107.5°	1083.5	1071.2	1058.9	1046.6	1034.3	1022.0	1009.7	997.4	985.1	972.8	939.4
110°	1043.8	1031.7	1019.7	1007.6	995.6	983.5	971.5	959.4	947.4	935.3	901.9



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1004.2	992.1	980.1	968.0	955.9	943.9	931.8	919.7	907.7	895.6	862.2
115°	966.6	954.1	941.5	929.0	916.5	903.9	891.4	878.9	866.3	853.8	820.9
117.5°	926.9	914.4	901.9	889.3	876.8	864.3	851.8	839.2	826.7	814.2	781.0
120°	881.0	868.5	856.0	843.4	830.9	818.4	805.9	793.3	780.8	768.3	736.3
122.5°	830.9	818.6	806.3	794.0	781.7	769.4	757.1	744.8	732.5	720.2	688.9
125°	774.5	762.4	750.4	738.3	726.3	714.2	702.2	690.1	678.1	666.0	636.3
127.5°	711.9	700.5	689.2	677.8	666.4	655.1	643.7	632.3	621.0	609.6	581.8
130°	643.0	632.8	622.6	612.4	602.2	591.9	581.7	571.5	561.3	551.1	525.4
132.5°	576.2	566.7	557.2	547.7	538.2	528.6	519.1	509.6	500.1	490.6	467.6
135°	509.4	501.3	493.2	485.0	476.9	468.8	460.7	452.5	444.4	436.3	415.7
137.5°	446.8	439.1	431.5	423.8	416.2	408.5	400.9	393.2	385.6	377.9	361.0
140°	382.0	375.5	369.0	362.5	356.0	349.6	343.1	336.6	330.1	323.6	309.7
142.5°	323.6	318.7	313.8	309.0	304.1	299.2	294.3	289.5	284.6	279.7	267.9
145°	279.7	275.8	271.8	267.9	264.0	260.0	256.1	252.2	248.2	244.3	233.9
147.5°	240.1	236.6	233.1	229.7	226.2	222.7	219.2	215.8	212.3	208.8	199.7
150°	202.5	199.5	196.5	193.5	190.5	187.4	184.4	181.4	178.4	175.4	167.7
152.5°	169.1	166.5	164.0	161.4	158.9	156.3	153.8	151.2	148.7	146.1	139.6
155°	137.8	135.7	133.6	131.5	129.4	127.4	125.3	123.2	121.1	119.0	113.4
157.5°	108.6	107.0	105.3	103.7	102.1	100.4	98.8	97.2	95.5	93.9	89.0
160°	83.5	82.1	80.7	79.3	77.9	76.6	75.2	73.8	72.4	71.0	67.3
162.5°	58.5	57.3	56.2	55.0	53.8	52.7	51.5	50.3	49.2	48.0	45.7
165°	39.7	39.0	38.3	37.6	36.9	36.2	35.5	34.8	34.1	33.4	32.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1153.8	1154.5	1155.2	1155.8	1156.5	1157.2	1157.9	1158.6	1157.0	1155.4	1153.7
5°	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1166.5	1164.0	1161.4
7.5°	1188.1	1187.2	1186.3	1185.3	1184.4	1183.5	1182.5	1181.6	1177.7	1173.7	1169.8
10°	1201.8	1200.4	1199.0	1197.6	1196.2	1194.8	1193.4	1192.0	1186.4	1180.9	1175.3
12.5°	1216.2	1213.6	1211.1	1208.5	1206.0	1203.4	1200.9	1198.3	1191.1	1183.9	1176.7
15°	1233.4	1229.0	1224.6	1220.1	1215.7	1211.3	1206.9	1202.5	1193.9	1185.3	1176.7
17.5°	1253.8	1247.0	1240.3	1233.6	1226.9	1220.1	1213.4	1206.7	1196.5	1186.3	1176.1
20°	1270.5	1261.6	1252.8	1244.0	1235.2	1226.3	1217.5	1208.7	1196.2	1183.7	1171.1
22.5°	1289.2	1278.3	1267.4	1256.5	1245.6	1234.7	1223.8	1212.9	1197.8	1182.7	1167.7
25°	1308.5	1295.7	1283.0	1270.2	1257.5	1244.7	1232.0	1219.2	1200.9	1182.6	1164.2
27.5°	1329.9	1315.2	1300.6	1286.0	1271.4	1256.7	1242.1	1227.5	1205.5	1183.4	1161.4
30°	1348.1	1331.2	1314.3	1297.3	1280.4	1263.5	1246.5	1229.6	1204.6	1179.5	1154.5
32.5°	1373.9	1354.2	1334.5	1314.7	1295.0	1275.3	1255.6	1235.9	1207.4	1178.8	1150.3
35°	1402.9	1379.9	1357.0	1334.0	1311.1	1288.1	1265.2	1242.2	1210.4	1178.6	1146.8
37.5°	1439.8	1413.4	1386.9	1360.5	1334.0	1307.6	1281.1	1254.7	1219.0	1183.3	1147.5
40°	1486.8	1455.8	1424.7	1393.6	1362.5	1331.5	1300.4	1269.3	1229.6	1190.0	1150.3
42.5°	1541.4	1505.2	1469.0	1432.9	1396.7	1360.5	1324.3	1288.1	1244.3	1200.4	1156.6
45°	1606.6	1564.3	1522.1	1479.9	1437.7	1395.4	1353.2	1311.0	1262.5	1214.0	1165.6
47.5°	1687.0	1638.1	1589.1	1540.2	1491.2	1442.3	1393.3	1344.4	1290.1	1235.8	1181.6
50°	1781.5	1724.4	1667.3	1610.3	1553.2	1496.1	1439.1	1382.0	1321.9	1261.8	1201.8
52.5°	1887.5	1821.9	1756.2	1690.6	1624.9	1559.3	1493.6	1428.0	1361.2	1294.4	1227.6
55°	2006.0	1931.8	1857.6	1783.3	1709.1	1634.9	1560.6	1486.4	1411.7	1337.0	1262.3
57.5°	2130.3	2047.3	1964.2	1881.2	1798.1	1715.1	1632.0	1549.0	1466.2	1383.4	1300.6
60°	2258.2	2167.0	2075.8	1984.7	1893.5	1802.3	1711.2	1620.0	1528.6	1437.2	1345.8
62.5°	2375.1	2277.6	2180.2	2082.8	1985.4	1887.9	1790.5	1693.1	1592.7	1492.2	1391.8
65°	2474.4	2372.3	2270.2	2168.2	2066.1	1964.0	1862.0	1759.9	1651.1	1542.3	1433.5
67.5°	2541.1	2437.0	2332.8	2228.7	2124.5	2020.4	1916.2	1812.1	1696.1	1580.1	1464.2
70°	2567.6	2464.1	2360.7	2257.2	2153.8	2050.3	1946.9	1843.4	1722.1	1600.8	1479.5
72.5°	2546.4	2446.0	2345.6	2245.1	2144.7	2044.3	1943.8	1843.4	1719.5	1595.7	1471.8
75°	2472.0	2377.2	2282.3	2187.4	2092.5	1997.7	1902.8	1807.9	1685.0	1562.0	1439.1
77.5°	2347.5	2260.2	2173.0	2085.8	1998.6	1911.3	1824.1	1736.9	1618.4	1499.8	1381.3
80°	2200.8	2119.6	2038.4	1957.3	1876.1	1794.9	1713.7	1632.5	1521.2	1409.8	1298.5
82.5°	2018.5	1946.4	1874.2	1802.1	1729.9	1657.8	1585.6	1513.5	1411.0	1308.5	1205.9
85°	1825.8	1762.7	1699.6	1636.5	1573.4	1510.3	1447.2	1384.1	1291.1	1198.1	1105.1
87.5°	1635.6	1579.7	1523.8	1467.8	1411.9	1356.0	1300.1	1244.2	1161.2	1078.1	995.1
90°	1467.4	1418.2	1369.0	1319.9	1270.7	1221.5	1172.4	1123.2	1048.7	974.3	899.8
92.5°	1333.8	1290.9	1248.0	1205.0	1162.1	1119.2	1076.3	1033.4	965.4	897.5	829.5
95°	1222.0	1181.6	1141.2	1100.9	1060.5	1020.1	979.8	939.4	878.2	816.9	755.7
97.5°	1129.9	1092.6	1055.2	1017.9	980.5	943.2	905.8	868.5	811.9	755.3	698.7
100°	1057.5	1021.5	985.6	949.6	913.7	877.7	841.8	805.8	752.9	700.0	647.1
102.5°	998.8	963.8	928.8	893.7	858.7	823.7	788.6	753.6	703.5	653.4	603.3
105°	950.1	915.8	881.5	847.1	812.8	778.5	744.1	709.8	661.8	613.8	565.8
107.5°	906.0	872.6	839.2	805.8	772.4	739.0	705.6	672.2	625.8	579.4	533.0
110°	868.5	835.1	801.7	768.2	734.8	701.4	668.0	634.6	589.8	545.1	500.3



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	828.8	795.4	762.0	728.6	695.2	661.8	628.4	595.0	552.3	509.6	467.0
115°	787.9	755.0	722.1	689.1	656.2	623.3	590.3	557.4	516.3	475.3	434.2
117.5°	747.8	714.7	681.5	648.3	615.1	582.0	548.8	515.6	477.1	438.6	400.1
120°	704.3	672.3	640.3	608.2	576.2	544.2	512.2	480.2	444.0	407.8	371.6
122.5°	657.6	626.3	595.0	563.6	532.3	501.0	469.7	438.4	405.5	372.5	339.6
125°	606.6	576.9	547.2	517.5	487.8	458.1	428.4	398.7	368.5	338.4	308.2
127.5°	553.9	526.1	498.3	470.4	442.6	414.8	386.9	359.1	332.0	304.8	277.7
130°	499.6	473.9	448.1	422.4	396.6	370.9	345.1	319.4	295.3	271.2	247.0
132.5°	444.7	421.7	398.7	375.8	352.8	329.8	306.9	283.9	262.6	241.2	219.9
135°	395.0	374.4	353.7	333.1	312.4	291.8	271.1	250.5	231.7	212.9	194.1
137.5°	344.0	327.1	310.2	293.2	276.3	259.4	242.4	225.5	208.1	190.7	173.3
140°	295.8	281.8	267.9	254.0	240.1	226.1	212.2	198.3	182.8	167.2	151.7
142.5°	256.1	244.2	232.4	220.6	208.8	196.9	185.1	173.3	159.1	145.0	130.8
145°	223.4	213.0	202.5	192.1	181.6	171.2	160.7	150.3	137.8	125.3	112.7
147.5°	190.7	181.6	172.6	163.5	154.5	145.4	136.4	127.3	116.6	106.0	95.3
150°	160.1	152.4	144.8	137.1	129.5	121.8	114.2	106.5	97.7	88.9	80.0
152.5°	133.1	126.6	120.1	113.7	107.2	100.7	94.2	87.7	80.5	73.3	66.1
155°	107.9	102.3	96.7	91.2	85.6	80.0	74.5	68.9	63.3	57.8	52.2
157.5°	84.2	79.3	74.4	69.6	64.7	59.8	55.0	50.1	46.4	42.7	39.0
160°	63.6	59.9	56.2	52.4	48.7	45.0	41.3	37.6	34.8	32.0	29.2
162.5°	43.4	41.0	38.7	36.4	34.1	31.7	29.4	27.1	25.2	23.4	21.5
165°	30.6	29.2	27.8	26.5	25.1	23.7	22.3	20.9	19.5	18.1	16.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1152.1	1150.5	1148.9	1147.2	1145.6	1144.0	1145.2	1146.3	1147.5	1148.7	1149.8
5°	1158.9	1156.3	1153.8	1151.2	1148.7	1146.1	1146.3	1146.6	1146.8	1147.0	1147.3
7.5°	1165.8	1161.9	1157.9	1154.0	1150.0	1146.1	1145.4	1144.7	1144.0	1143.3	1142.7
10°	1169.7	1164.2	1158.6	1153.0	1147.5	1141.9	1140.0	1138.2	1136.3	1134.5	1132.6
12.5°	1169.5	1162.4	1155.2	1148.0	1140.8	1133.6	1130.6	1127.6	1124.6	1121.6	1118.5
15°	1168.1	1159.6	1151.0	1142.4	1133.8	1125.2	1121.0	1116.9	1112.7	1108.5	1104.4
17.5°	1165.9	1155.6	1145.4	1135.2	1125.0	1114.8	1109.0	1103.2	1097.4	1091.6	1085.8
20°	1158.6	1146.1	1133.6	1121.0	1108.5	1096.0	1089.0	1082.1	1075.1	1068.2	1061.2
22.5°	1152.6	1137.5	1122.4	1107.4	1092.3	1077.2	1068.9	1060.5	1052.2	1043.8	1035.5
25°	1145.9	1127.6	1109.3	1090.9	1072.6	1054.3	1044.8	1035.3	1025.8	1016.3	1006.7
27.5°	1139.4	1117.3	1095.3	1073.3	1051.2	1029.2	1018.3	1007.4	996.5	985.6	974.7
30°	1129.4	1104.4	1079.3	1054.3	1029.2	1004.2	991.7	979.1	966.6	954.1	941.5
32.5°	1121.8	1093.2	1064.7	1036.2	1007.6	979.1	964.7	950.3	936.0	921.6	907.2
35°	1115.0	1083.3	1051.5	1019.7	987.9	956.1	939.4	922.7	906.0	889.3	872.6
37.5°	1111.8	1076.1	1040.4	1004.6	968.9	933.2	914.2	895.2	876.1	857.1	838.1
40°	1110.6	1071.0	1031.3	991.6	952.0	912.3	890.5	868.7	846.9	825.1	803.3
42.5°	1112.7	1068.9	1025.0	981.2	937.3	893.5	868.7	843.9	819.0	794.2	769.4
45°	1117.1	1068.6	1020.1	971.7	923.2	874.7	846.6	818.6	790.5	762.4	734.4
47.5°	1127.3	1073.0	1018.7	964.5	910.2	855.9	824.8	793.7	762.7	731.6	700.5
50°	1141.7	1081.6	1021.5	961.5	901.4	841.3	806.5	771.7	736.9	702.1	667.4
52.5°	1160.8	1093.9	1027.1	960.3	893.5	826.7	788.7	750.6	712.6	674.5	636.5
55°	1187.6	1113.0	1038.3	963.6	888.9	814.2	772.2	730.2	688.2	646.2	604.3
57.5°	1217.8	1134.9	1052.1	969.3	886.5	803.7	758.2	712.8	667.3	621.9	576.4
60°	1254.4	1163.1	1071.7	980.3	888.9	797.5	748.1	698.7	649.3	599.9	550.4
62.5°	1291.3	1190.9	1090.4	990.0	889.5	789.1	736.2	683.3	630.4	577.5	524.7
65°	1324.7	1216.0	1107.2	998.4	889.6	780.8	724.7	668.5	612.4	556.3	500.1
67.5°	1348.2	1232.2	1116.2	1000.3	884.3	768.3	709.4	650.5	591.5	532.6	473.7
70°	1358.2	1236.8	1115.5	994.2	872.9	751.6	690.6	629.6	568.6	507.6	446.5
72.5°	1347.9	1224.1	1100.2	976.3	852.5	728.6	666.4	604.3	542.1	479.9	417.8
75°	1316.2	1193.2	1070.3	947.4	824.4	701.5	638.6	575.8	512.9	450.0	387.2
77.5°	1262.8	1144.2	1025.7	907.2	788.6	670.1	607.2	544.4	481.5	418.7	355.8
80°	1187.2	1075.8	964.5	853.2	741.8	630.5	569.3	508.0	446.8	385.5	324.3
82.5°	1103.4	1000.9	898.4	795.8	693.3	590.8	531.2	471.6	412.0	352.4	292.7
85°	1012.1	919.0	826.0	733.0	640.0	547.0	489.7	432.4	375.1	317.8	260.5
87.5°	912.1	829.0	746.0	663.0	579.9	496.9	442.8	388.8	334.7	280.7	226.6
90°	825.3	750.9	676.4	601.9	527.5	453.0	402.7	352.3	302.0	251.7	201.3
92.5°	761.5	693.6	625.6	557.6	489.7	421.7	374.8	328.0	281.1	234.3	187.4
95°	694.5	633.2	572.0	510.8	449.5	388.3	345.2	302.0	258.9	215.7	172.6
97.5°	642.1	585.5	528.9	472.3	415.7	359.1	319.2	279.3	239.4	199.5	159.6
100°	594.2	541.4	488.5	435.6	382.7	329.8	293.2	256.5	219.9	183.2	146.6
102.5°	553.2	503.1	453.0	402.9	352.8	302.7	269.1	235.4	201.8	168.2	134.5
105°	517.8	469.7	421.7	373.7	325.7	277.7	246.8	216.0	185.1	154.3	123.4
107.5°	486.6	440.3	393.9	347.5	301.1	254.7	226.4	198.1	169.8	141.5	113.2
110°	455.5	410.8	366.0	321.2	276.5	231.7	206.0	180.2	154.5	128.7	103.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	424.3	381.6	338.9	296.3	253.6	210.9	187.5	164.0	140.6	117.2	93.7
115°	393.2	352.1	311.1	270.0	229.0	187.9	167.0	146.1	125.3	104.4	83.5
117.5°	361.6	323.1	284.6	246.1	207.6	169.1	150.3	131.5	112.7	93.9	75.2
120°	335.4	299.3	263.1	226.9	190.7	154.5	137.3	120.2	103.0	85.8	68.7
122.5°	306.7	273.7	240.8	207.9	174.9	142.0	126.2	110.4	94.7	78.9	63.1
125°	278.1	247.9	217.8	187.6	157.5	127.3	113.2	99.0	84.9	70.7	56.6
127.5°	250.5	223.4	196.2	169.1	141.9	114.8	102.0	89.3	76.5	63.8	51.0
130°	222.9	198.8	174.7	150.5	126.4	102.3	90.9	79.6	68.2	56.8	45.5
132.5°	198.6	177.2	155.9	134.6	113.2	91.9	81.7	71.5	61.3	51.1	40.8
135°	175.3	156.6	137.8	119.0	100.2	81.4	72.4	63.3	54.3	45.2	36.2
137.5°	155.9	138.5	121.1	103.7	86.3	68.9	61.2	53.6	45.9	38.3	30.6
140°	136.2	120.6	105.1	89.6	74.0	58.5	52.0	45.5	39.0	32.5	26.0
142.5°	116.7	102.5	88.4	74.2	60.1	45.9	40.8	35.7	30.6	25.5	20.4
145°	100.2	87.7	75.2	62.6	50.1	37.6	33.4	29.2	25.1	20.9	16.7
147.5°	84.6	74.0	63.3	52.6	42.0	31.3	27.8	24.3	20.9	17.4	13.9
150°	71.2	62.4	53.6	44.7	35.9	27.1	24.1	21.1	18.1	15.1	12.0
152.5°	58.9	51.8	44.6	37.4	30.2	23.0	20.4	17.9	15.3	12.8	10.2
155°	46.6	41.1	35.5	29.9	24.4	18.8	16.7	14.6	12.5	10.4	8.4
157.5°	35.3	31.5	27.8	24.1	20.4	16.7	14.8	13.0	11.1	9.3	7.4
160°	26.4	23.7	20.9	18.1	15.3	12.5	11.1	9.7	8.3	6.9	5.6
162.5°	19.7	17.8	16.0	14.1	12.3	10.4	9.2	8.1	6.9	5.8	4.6
165°	15.3	14.0	12.6	11.2	9.8	8.4	7.5	6.5	5.6	4.7	3.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1151.0	1152.2	1153.3	1154.5	1152.4	1150.3	1148.2	1146.1	1144.1	1142.0	1139.9
5°	1147.5	1147.7	1148.0	1148.2	1145.4	1142.6	1139.9	1137.1	1134.3	1131.5	1128.8
7.5°	1142.0	1141.3	1140.6	1139.9	1136.4	1132.9	1129.4	1125.9	1122.5	1119.0	1115.5
10°	1130.8	1128.9	1127.1	1125.2	1121.3	1117.3	1113.4	1109.5	1105.5	1101.6	1097.7
12.5°	1115.5	1112.5	1109.5	1106.5	1102.3	1098.1	1094.0	1089.8	1085.6	1081.4	1077.3
15°	1100.2	1096.0	1091.9	1087.7	1083.3	1078.9	1074.5	1070.1	1065.6	1061.2	1056.8
17.5°	1080.0	1074.2	1068.4	1062.6	1058.0	1053.3	1048.7	1044.1	1039.4	1034.8	1030.2
20°	1054.3	1047.3	1040.4	1033.4	1029.0	1024.6	1020.2	1015.8	1011.3	1006.9	1002.5
22.5°	1027.1	1018.8	1010.4	1002.1	997.9	993.7	989.6	985.4	981.2	977.0	972.9
25°	997.2	987.7	978.2	968.7	965.0	961.3	957.6	953.9	950.1	946.4	942.7
27.5°	963.8	952.9	942.0	931.1	928.5	926.0	923.4	920.9	918.3	915.8	913.2
30°	929.0	916.5	903.9	891.4	889.5	887.7	885.8	884.0	882.1	880.3	878.4
32.5°	892.8	878.5	864.1	849.7	849.0	848.3	847.6	846.9	846.2	845.5	844.8
35°	855.9	839.2	822.5	805.8	806.5	807.2	807.9	808.6	809.3	810.0	810.7
37.5°	819.1	800.0	781.0	762.0	765.0	768.0	771.0	774.0	777.1	780.1	783.1
40°	781.5	759.7	737.9	716.1	721.9	727.7	733.5	739.3	745.1	750.9	756.7
42.5°	744.6	719.7	694.9	670.1	678.7	687.3	695.9	704.5	713.0	721.6	730.2
45°	706.3	678.2	650.2	622.1	633.9	645.8	657.6	669.4	681.3	693.1	704.9
47.5°	669.4	638.4	607.3	576.2	591.0	605.9	620.7	635.6	650.4	665.3	680.1
50°	632.6	597.8	563.0	528.2	546.5	564.8	583.2	601.5	619.8	638.1	656.5
52.5°	598.4	560.4	522.3	484.3	505.4	526.5	547.6	568.7	589.9	611.0	632.1
55°	562.3	520.3	478.3	436.3	461.1	485.9	510.8	535.6	560.4	585.2	610.1
57.5°	531.0	485.5	440.1	394.6	422.2	449.8	477.4	505.0	532.6	560.2	587.8
60°	501.0	451.6	402.2	352.8	383.4	414.0	444.7	475.3	505.9	536.5	567.2
62.5°	471.8	418.9	366.0	313.1	346.3	379.5	412.6	445.8	479.0	512.2	545.3
65°	444.0	387.9	331.7	275.6	311.1	346.6	382.1	417.6	453.0	488.5	524.0
67.5°	414.8	355.8	296.9	238.0	275.6	313.2	350.7	388.3	425.9	463.5	501.0
70°	385.5	324.5	263.5	202.5	241.7	280.9	320.1	359.3	398.5	437.7	476.9
72.5°	355.6	293.4	231.3	169.1	210.4	251.7	293.0	334.3	375.5	416.8	458.1
75°	324.3	261.4	198.6	135.7	176.5	217.3	258.2	299.0	339.8	380.6	421.5
77.5°	293.0	230.1	167.3	104.4	145.0	185.6	226.2	266.8	307.3	347.9	388.5
80°	263.0	201.8	140.5	79.3	119.0	158.6	198.3	238.0	277.6	317.3	357.0
82.5°	233.1	173.5	113.9	54.3	93.0	131.8	170.5	209.2	248.0	286.7	325.4
85°	203.2	145.9	88.6	31.3	68.6	106.0	143.3	180.7	218.0	255.4	292.7
87.5°	172.6	118.5	64.5	10.4	46.1	81.8	117.6	153.3	189.0	224.7	260.5
90°	151.0	100.7	50.3	0.0	33.4	66.8	100.2	133.6	167.0	200.4	233.8
92.5°	140.6	93.7	46.9	0.0	30.9	61.7	92.6	123.4	154.3	185.1	216.0
95°	129.4	86.3	43.1	0.0	28.5	57.1	85.6	114.1	142.7	171.2	199.7
97.5°	119.7	79.8	39.9	0.0	26.2	52.4	78.6	104.8	131.1	157.3	183.5
100°	109.9	73.3	36.6	0.0	24.1	48.2	72.4	96.5	120.6	144.7	168.9
102.5°	100.9	67.3	33.6	0.0	22.0	44.1	66.1	88.1	110.2	132.2	154.2
105°	92.6	61.7	30.9	0.0	20.2	40.4	60.5	80.7	100.9	121.1	141.2
107.5°	84.9	56.6	28.3	0.0	18.3	36.6	55.0	73.3	91.6	109.9	128.3
110°	77.2	51.5	25.7	0.0	16.7	33.4	50.1	66.8	83.5	100.2	116.9



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	70.3	46.9	23.4	0.0	14.8	29.7	44.5	59.4	74.2	89.1	103.9
115°	62.6	41.8	20.9	0.0	13.5	26.9	40.4	53.8	67.3	80.7	94.2
117.5°	56.4	37.6	18.8	0.0	12.1	24.1	36.2	48.3	60.3	72.4	84.5
120°	51.5	34.3	17.2	0.0	10.7	21.3	32.0	42.7	53.3	64.0	74.7
122.5°	47.3	31.6	15.8	0.0	9.5	19.0	28.5	38.0	47.6	57.1	66.6
125°	42.4	28.3	14.1	0.0	8.1	16.2	24.4	32.5	40.6	48.7	56.9
127.5°	38.3	25.5	12.8	0.0	6.5	13.0	19.5	26.0	32.5	39.0	45.5
130°	34.1	22.7	11.4	0.0	5.1	10.2	15.3	20.4	25.5	30.6	35.7
132.5°	30.6	20.4	10.2	0.0	3.9	7.9	11.8	15.8	19.7	23.7	27.6
135°	27.1	18.1	9.0	0.0	2.8	5.6	8.4	11.2	13.9	16.7	19.5
137.5°	23.0	15.3	7.7	0.0	1.6	3.2	4.9	6.5	8.1	9.7	11.4
140°	19.5	13.0	6.5	0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
142.5°	15.3	10.2	5.1	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6
145°	12.5	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.8	1.9	0.9	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: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1137.8	1135.7	1135.0	1134.3	1133.6	1132.9	1132.2	1131.5	1130.8	1130.1	1129.4
5°	1126.0	1123.2	1122.3	1121.3	1120.4	1119.5	1118.5	1117.6	1116.7	1115.7	1114.8
7.5°	1112.0	1108.5	1107.1	1105.7	1104.3	1102.9	1101.6	1100.2	1098.8	1097.4	1096.0
10°	1093.7	1089.8	1088.4	1087.0	1085.6	1084.2	1082.8	1081.4	1080.0	1078.6	1077.2
12.5°	1073.1	1068.9	1067.5	1066.1	1064.7	1063.3	1062.0	1060.6	1059.2	1057.8	1056.4
15°	1052.4	1048.0	1046.8	1045.7	1044.5	1043.4	1042.2	1041.1	1039.9	1038.8	1037.6
17.5°	1025.5	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
20°	998.1	993.7	994.4	995.1	995.8	996.5	997.2	997.9	998.6	999.3	1000.0
22.5°	968.7	964.5	967.5	970.5	973.5	976.5	979.6	982.6	985.6	988.6	991.6
25°	939.0	935.3	941.8	948.3	954.8	961.3	967.7	974.2	980.7	987.2	993.7
27.5°	910.7	908.1	918.1	928.1	938.0	948.0	958.0	968.0	977.9	987.9	997.9
30°	876.6	874.7	888.6	902.5	916.5	930.4	944.3	958.2	972.2	986.1	1000.0
32.5°	844.1	843.4	861.3	879.1	897.0	914.9	932.7	950.6	968.5	986.3	1004.2
35°	811.4	812.1	833.9	855.7	877.5	899.3	921.1	942.9	964.7	986.5	1008.3
37.5°	786.1	789.1	814.2	839.2	864.3	889.3	914.4	939.4	964.5	989.5	1014.6
40°	762.5	768.3	796.4	824.4	852.5	880.6	908.6	936.7	964.8	992.8	1020.9
42.5°	738.8	747.4	778.7	810.0	841.3	872.6	904.0	935.3	966.6	997.9	1029.2
45°	716.8	728.6	763.4	798.2	833.0	867.8	902.5	937.3	972.1	1006.9	1041.7
47.5°	695.0	709.8	748.5	787.3	826.0	864.7	903.5	942.2	980.9	1019.7	1058.4
50°	674.8	693.1	736.0	778.9	821.8	864.7	907.7	950.6	993.5	1036.4	1079.3
52.5°	653.2	674.3	721.4	768.5	815.6	862.7	909.7	956.8	1003.9	1051.0	1098.1
55°	634.9	659.7	711.4	763.1	814.9	866.6	918.3	970.0	1021.8	1073.5	1125.2
57.5°	615.4	643.0	700.1	757.1	814.2	871.3	928.3	985.4	1042.5	1099.5	1156.6
60°	597.8	628.4	691.5	754.6	817.7	880.8	943.8	1006.9	1070.0	1133.1	1196.2
62.5°	578.5	611.7	679.4	747.2	814.9	882.6	950.4	1018.1	1085.8	1153.6	1221.3
65°	559.5	595.0	666.7	738.4	810.0	881.7	953.4	1025.1	1096.7	1168.4	1240.1
67.5°	538.6	576.2	651.6	727.0	802.4	877.8	953.1	1028.5	1103.9	1179.3	1254.7
70°	516.1	555.3	632.8	710.3	787.7	865.2	942.7	1020.2	1097.6	1175.1	1252.6
72.5°	499.4	540.7	617.7	694.7	771.7	848.7	925.8	1002.8	1079.8	1156.8	1233.8
75°	462.3	503.1	579.9	656.7	733.4	810.2	887.0	963.8	1040.5	1117.3	1194.1
77.5°	429.1	469.7	543.7	617.7	691.7	765.7	839.7	913.7	987.7	1061.7	1135.7
80°	396.6	436.3	505.7	575.0	644.4	713.7	783.1	852.4	921.8	991.1	1060.5
82.5°	364.2	402.9	466.9	530.9	595.0	659.0	723.0	787.0	851.1	915.1	979.1
85°	330.1	367.4	425.9	484.3	542.8	601.2	659.7	718.1	776.6	835.0	893.5
87.5°	296.2	331.9	386.0	440.0	494.1	548.1	602.2	656.2	710.3	764.3	818.4
90°	267.2	300.6	349.5	398.5	447.4	496.4	545.3	594.3	643.2	692.2	741.1
92.5°	246.8	277.7	322.0	366.3	410.6	454.9	499.2	543.5	587.8	632.1	676.4
95°	228.3	256.8	298.1	339.4	380.7	422.0	463.2	504.5	545.8	587.1	628.4
97.5°	209.7	235.9	274.6	313.4	352.1	390.8	429.6	468.3	507.0	545.8	584.5
100°	193.0	217.1	253.8	290.4	327.1	363.7	400.4	437.0	473.7	510.3	547.0
102.5°	176.3	198.3	232.6	267.0	301.3	335.6	370.0	404.3	438.6	473.0	507.3
105°	161.4	181.6	214.5	247.5	280.4	313.4	346.3	379.3	412.2	445.2	478.1
107.5°	146.6	164.9	196.4	228.0	259.5	291.1	322.6	354.2	385.7	417.3	448.8
110°	133.6	150.3	180.7	211.1	241.5	271.9	302.2	332.6	363.0	393.4	423.8



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	118.8	133.6	162.8	192.1	221.3	250.5	279.8	309.0	338.2	367.5	396.7
115°	107.6	121.1	148.9	176.8	204.6	232.4	260.3	288.1	315.9	343.8	371.6
117.5°	96.5	108.6	135.3	161.9	188.6	215.3	241.9	268.6	295.3	321.9	348.6
120°	85.3	96.0	121.1	146.1	171.2	196.2	221.3	246.3	271.4	296.4	321.5
122.5°	76.1	85.6	108.8	132.0	155.2	178.4	201.6	224.8	248.0	271.2	294.4
125°	65.0	73.1	94.2	115.3	136.4	157.5	178.6	199.7	220.8	241.9	263.0
127.5°	52.0	58.5	78.2	97.9	117.6	137.3	157.1	176.8	196.5	216.2	235.9
130°	40.8	45.9	63.8	81.6	99.5	117.4	135.2	153.1	171.0	188.8	206.7
132.5°	31.6	35.5	51.3	67.1	82.8	98.6	114.4	130.2	145.9	161.7	177.5
135°	22.3	25.1	38.8	52.5	66.1	79.8	93.5	107.2	120.8	134.5	148.2
137.5°	13.0	14.6	26.7	38.7	50.8	62.9	74.9	87.0	99.1	111.1	123.2
140°	5.6	6.3	16.7	27.2	37.6	48.0	58.5	68.9	79.3	89.8	100.2
142.5°	1.9	2.1	10.7	19.3	27.8	36.4	45.0	53.6	62.1	70.7	79.3
145°	0.0	0.0	6.7	13.4	20.2	26.9	33.6	40.3	47.1	53.8	60.5
147.5°	0.0	0.0	4.9	9.7	14.6	19.5	24.3	29.2	34.1	38.9	43.8
150°	0.0	0.0	3.5	7.0	10.4	13.9	17.4	20.9	24.3	27.8	31.3
152.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	11.1	13.0	14.8	16.7
155°	0.0	0.0	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.5	8.4
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: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1128.7	1128.0	1127.3	1126.6	1126.0	1125.3	1124.6	1123.9	1123.2	1122.3	1121.3
5°	1113.4	1112.0	1110.6	1109.2	1107.9	1106.5	1105.1	1103.7	1102.3	1102.1	1101.8
7.5°	1094.8	1093.7	1092.5	1091.4	1090.2	1089.1	1087.9	1086.8	1085.6	1085.4	1085.1
10°	1076.3	1075.4	1074.4	1073.5	1072.6	1071.7	1070.7	1069.8	1068.9	1068.4	1068.0
12.5°	1055.9	1055.5	1055.0	1054.5	1054.1	1053.6	1053.1	1052.7	1052.2	1052.2	1052.2
15°	1037.8	1038.0	1038.3	1038.5	1038.7	1038.9	1039.2	1039.4	1039.6	1040.1	1040.5
17.5°	1022.8	1024.6	1026.5	1028.3	1030.2	1032.0	1033.9	1035.7	1037.6	1039.2	1040.8
20°	1005.3	1010.7	1016.0	1021.3	1026.7	1032.0	1037.3	1042.7	1048.0	1050.8	1053.6
22.5°	999.5	1007.4	1015.3	1023.2	1031.0	1038.9	1046.8	1054.7	1062.6	1065.8	1069.1
25°	1003.2	1012.7	1022.2	1031.7	1041.3	1050.8	1060.3	1069.8	1079.3	1082.8	1086.3
27.5°	1008.8	1019.7	1030.6	1041.5	1052.4	1063.3	1074.2	1085.1	1096.0	1100.4	1104.8
30°	1012.3	1024.6	1036.9	1049.2	1061.4	1073.7	1086.0	1098.3	1110.6	1115.9	1121.3
32.5°	1018.6	1033.0	1047.3	1061.7	1076.1	1090.5	1104.8	1119.2	1133.6	1139.9	1146.1
35°	1024.8	1041.3	1057.7	1074.2	1090.7	1107.2	1123.6	1140.1	1156.6	1164.3	1171.9
37.5°	1033.6	1052.6	1071.7	1090.7	1109.7	1128.7	1147.8	1166.8	1185.8	1194.8	1203.9
40°	1043.2	1065.4	1087.7	1110.0	1132.2	1154.5	1176.8	1199.0	1221.3	1232.0	1242.6
42.5°	1054.9	1080.7	1106.4	1132.2	1157.9	1183.7	1209.4	1235.2	1260.9	1273.4	1286.0
45°	1071.6	1101.5	1131.5	1161.4	1191.3	1221.2	1251.2	1281.1	1311.0	1325.4	1339.8
47.5°	1092.7	1127.1	1161.4	1195.7	1230.1	1264.4	1298.7	1333.1	1367.4	1383.9	1400.3
50°	1118.5	1157.7	1196.9	1236.1	1275.3	1314.5	1353.7	1392.9	1432.1	1450.9	1469.7
52.5°	1143.1	1188.1	1233.1	1278.1	1323.1	1368.1	1413.1	1458.1	1503.1	1523.5	1543.9
55°	1175.3	1225.4	1275.5	1325.6	1375.8	1425.9	1476.0	1526.1	1576.2	1597.5	1618.9
57.5°	1211.1	1265.6	1320.1	1374.6	1429.2	1483.7	1538.2	1592.7	1647.2	1669.2	1691.3
60°	1253.5	1310.8	1368.1	1425.4	1482.7	1540.0	1597.3	1654.6	1711.9	1734.4	1756.9
62.5°	1281.8	1342.4	1402.9	1463.5	1524.0	1584.6	1645.1	1705.7	1766.2	1788.2	1810.3
65°	1303.0	1365.8	1428.7	1491.5	1554.4	1617.2	1680.1	1742.9	1805.8	1826.9	1848.0
67.5°	1317.6	1380.4	1443.3	1506.1	1569.0	1631.8	1694.7	1757.5	1820.4	1840.8	1861.2
70°	1314.5	1376.5	1438.4	1500.3	1562.3	1624.2	1686.1	1748.1	1810.0	1828.8	1847.6
72.5°	1293.2	1352.6	1411.9	1471.3	1530.7	1590.1	1649.4	1708.8	1768.2	1785.8	1803.5
75°	1250.5	1306.8	1363.2	1419.6	1475.9	1532.3	1588.7	1645.0	1701.4	1717.4	1733.4
77.5°	1187.9	1240.1	1292.3	1344.5	1396.6	1448.8	1501.0	1553.2	1605.4	1620.9	1636.5
80°	1108.5	1156.5	1204.6	1252.6	1300.6	1348.6	1396.7	1444.7	1492.7	1507.3	1521.9
82.5°	1022.9	1066.8	1110.6	1154.5	1198.3	1242.2	1286.0	1329.9	1373.7	1387.2	1400.6
85°	933.6	973.8	1013.9	1054.0	1094.2	1134.3	1174.4	1214.6	1254.7	1267.0	1279.3
87.5°	853.0	887.5	922.1	956.6	991.2	1025.7	1060.3	1094.8	1129.4	1141.9	1154.5
90°	772.9	804.7	836.4	868.2	900.0	931.8	963.5	995.3	1027.1	1038.9	1050.8
92.5°	706.8	737.2	767.6	798.0	828.3	858.7	889.1	919.5	949.9	960.3	970.8
95°	656.7	685.0	713.3	741.6	769.9	798.2	826.5	854.8	883.1	893.1	903.0
97.5°	610.9	637.4	663.8	690.3	716.7	743.2	769.6	796.1	822.5	832.9	843.4
100°	573.2	599.4	625.6	651.8	678.1	704.3	730.5	756.7	782.9	792.9	802.8
102.5°	533.5	559.7	585.9	612.1	638.4	664.6	690.8	717.0	743.2	753.2	763.2
105°	504.1	530.1	556.0	582.0	608.0	634.0	659.9	685.9	711.9	721.6	731.4
107.5°	474.6	500.3	526.1	551.8	577.6	603.3	629.1	654.8	680.6	690.3	700.1
110°	449.1	474.4	499.6	524.9	550.2	575.5	600.7	626.0	651.3	661.0	670.8



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	421.5	446.3	471.1	495.9	520.8	545.6	570.4	595.2	620.0	629.3	638.6
115°	395.5	419.4	443.3	467.2	491.0	514.9	538.8	562.7	586.6	596.1	605.6
117.5°	371.3	394.1	416.8	439.5	462.3	485.0	507.7	530.5	553.2	562.2	571.3
120°	343.1	364.6	386.2	407.8	429.3	450.9	472.5	494.0	515.6	524.9	534.2
122.5°	315.5	336.6	357.7	378.8	399.9	421.0	442.1	463.2	484.3	493.1	501.9
125°	283.9	304.8	325.6	346.5	367.4	388.3	409.1	430.0	450.9	459.5	468.1
127.5°	255.4	274.9	294.4	313.9	333.3	352.8	372.3	391.8	411.3	419.2	427.1
130°	224.3	241.9	259.6	277.2	294.8	312.4	330.1	347.7	365.3	373.2	381.1
132.5°	193.5	209.5	225.5	241.5	257.5	273.5	289.5	305.5	321.5	328.2	334.9
135°	163.5	178.8	194.1	209.4	224.8	240.1	255.4	270.7	286.0	291.6	297.1
137.5°	137.3	151.5	165.6	179.8	193.9	208.1	222.2	236.4	250.5	255.6	260.7
140°	112.5	124.8	137.1	149.4	161.7	174.0	186.3	198.6	210.9	216.2	221.6
142.5°	89.7	100.2	110.6	121.1	131.5	142.0	152.4	162.9	173.3	178.6	184.0
145°	69.1	77.7	86.3	94.9	103.4	112.0	120.6	129.2	137.8	143.4	148.9
147.5°	51.0	58.2	65.4	72.6	79.8	87.0	94.2	101.4	108.6	113.9	119.3
150°	37.1	42.9	48.7	54.5	60.3	66.1	71.9	77.7	83.5	88.4	93.2
152.5°	21.6	26.4	31.3	36.2	41.0	45.9	50.8	55.6	60.5	64.9	69.3
155°	11.9	15.4	18.8	22.3	25.8	29.3	32.7	36.2	39.7	43.6	47.6
157.5°	2.6	5.1	7.7	10.2	12.8	15.3	17.9	20.4	23.0	26.2	29.5
160°	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.5	8.4	10.9	13.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
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: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1120.4	1119.5	1118.5	1117.6	1116.7	1115.7	1114.8	1115.3	1115.7	1116.2	1116.7
5°	1101.6	1101.4	1101.1	1100.9	1100.7	1100.4	1100.2	1100.2	1100.2	1100.2	1100.2
7.5°	1084.9	1084.7	1084.4	1084.2	1084.0	1083.7	1083.5	1083.7	1084.0	1084.2	1084.4
10°	1067.5	1067.0	1066.6	1066.1	1065.6	1065.2	1064.7	1064.7	1064.7	1064.7	1064.7
12.5°	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1052.2	1051.7	1051.3	1050.8	1050.3
15°	1041.0	1041.5	1041.9	1042.4	1042.9	1043.3	1043.8	1043.3	1042.9	1042.4	1041.9
17.5°	1042.5	1044.1	1045.7	1047.3	1049.0	1050.6	1052.2	1050.6	1049.0	1047.3	1045.7
20°	1056.4	1059.2	1061.9	1064.7	1067.5	1070.3	1073.1	1069.8	1066.6	1063.3	1060.1
22.5°	1072.3	1075.6	1078.8	1082.1	1085.3	1088.6	1091.8	1088.1	1084.4	1080.7	1077.0
25°	1089.7	1093.2	1096.7	1100.2	1103.6	1107.1	1110.6	1106.4	1102.3	1098.1	1093.9
27.5°	1109.2	1113.6	1118.1	1122.5	1126.9	1131.3	1135.7	1130.8	1125.9	1121.1	1116.2
30°	1126.6	1131.9	1137.3	1142.6	1147.9	1153.3	1158.6	1153.0	1147.5	1141.9	1136.3
32.5°	1152.4	1158.7	1164.9	1171.2	1177.5	1183.7	1190.0	1183.3	1176.5	1169.8	1163.1
35°	1179.6	1187.2	1194.9	1202.5	1210.2	1217.8	1225.5	1217.6	1209.7	1201.8	1193.9
37.5°	1212.9	1222.0	1231.0	1240.1	1249.1	1258.2	1267.2	1258.2	1249.1	1240.1	1231.0
40°	1253.3	1264.0	1274.6	1285.3	1296.0	1306.6	1317.3	1306.9	1296.4	1286.0	1275.6
42.5°	1298.5	1311.0	1323.6	1336.1	1348.6	1361.2	1373.7	1361.9	1350.0	1338.2	1326.4
45°	1354.2	1368.6	1382.9	1397.3	1411.7	1426.1	1440.5	1426.3	1412.2	1398.0	1383.9
47.5°	1416.8	1433.3	1449.7	1466.2	1482.7	1499.1	1515.6	1499.4	1483.1	1466.9	1450.7
50°	1488.5	1507.3	1526.0	1544.8	1563.6	1582.4	1601.2	1582.9	1564.6	1546.2	1527.9
52.5°	1564.3	1584.7	1605.2	1625.6	1646.0	1666.4	1686.8	1667.3	1647.8	1628.4	1608.9
55°	1640.2	1661.5	1682.9	1704.2	1725.5	1746.9	1768.2	1747.8	1727.4	1707.0	1686.6
57.5°	1713.3	1735.3	1757.4	1779.4	1801.4	1823.5	1845.5	1824.4	1803.3	1782.2	1761.1
60°	1779.4	1801.9	1824.4	1846.9	1869.4	1891.9	1914.4	1893.1	1871.7	1850.4	1829.0
62.5°	1832.3	1854.3	1876.4	1898.4	1920.4	1942.5	1964.5	1944.1	1923.7	1903.3	1882.9
65°	1869.1	1890.2	1911.4	1932.5	1953.6	1974.7	1995.8	1976.3	1956.8	1937.3	1917.8
67.5°	1881.6	1902.0	1922.5	1942.9	1963.3	1983.7	2004.1	1985.8	1967.5	1949.1	1930.8
70°	1866.4	1885.2	1903.9	1922.7	1941.5	1960.3	1979.1	1962.4	1945.7	1929.0	1912.3
72.5°	1821.1	1838.7	1856.4	1874.0	1891.6	1909.3	1926.9	1911.6	1896.3	1881.0	1865.7
75°	1749.4	1765.4	1781.5	1797.5	1813.5	1829.5	1845.5	1831.6	1817.7	1803.7	1789.8
77.5°	1652.0	1667.6	1683.1	1698.7	1714.2	1729.8	1745.3	1731.8	1718.4	1704.9	1691.5
80°	1536.5	1551.1	1565.8	1580.4	1595.0	1609.6	1624.2	1611.4	1598.7	1585.9	1573.2
82.5°	1414.1	1427.5	1441.0	1454.4	1467.9	1481.3	1494.8	1482.7	1470.7	1458.6	1446.5
85°	1291.6	1303.9	1316.1	1328.4	1340.7	1353.0	1365.3	1353.7	1342.1	1330.5	1318.9
87.5°	1167.0	1179.5	1192.1	1204.6	1217.1	1229.7	1242.2	1231.1	1219.9	1208.8	1197.6
90°	1062.6	1074.4	1086.3	1098.1	1109.9	1121.8	1133.6	1122.7	1111.8	1100.9	1090.0
92.5°	981.2	991.6	1002.1	1012.5	1022.9	1033.4	1043.8	1033.6	1023.4	1013.2	1003.0
95°	913.0	923.0	932.9	942.9	952.9	962.8	972.8	963.3	953.8	944.3	934.8
97.5°	853.8	864.3	874.7	885.2	895.6	906.1	916.5	907.2	897.9	888.7	879.4
100°	812.8	822.8	832.7	842.7	852.7	862.6	872.6	863.1	853.6	844.1	834.6
102.5°	773.1	783.1	793.1	803.1	813.0	823.0	833.0	823.7	814.4	805.2	795.9
105°	741.1	750.9	760.6	770.4	780.1	789.9	799.6	790.6	781.5	772.5	763.4
107.5°	709.8	719.6	729.3	739.1	748.8	758.6	768.3	759.2	750.2	741.1	732.1
110°	680.5	690.3	700.0	709.8	719.5	729.3	739.0	729.5	720.0	710.5	701.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	647.8	657.1	666.4	675.7	684.9	694.2	703.5	694.5	685.4	676.4	667.3
115°	615.1	624.6	634.2	643.7	653.2	662.7	672.2	662.9	653.6	644.4	635.1
117.5°	580.3	589.4	598.4	607.5	616.5	625.6	634.6	626.0	617.4	608.9	600.3
120°	543.5	552.8	562.0	571.3	580.6	589.9	599.2	590.8	582.5	574.1	565.8
122.5°	510.8	519.6	528.4	537.2	546.1	554.9	563.7	555.3	547.0	538.6	530.3
125°	476.7	485.3	493.8	502.4	511.0	519.6	528.2	519.8	511.5	503.1	494.8
127.5°	434.9	442.8	450.7	458.6	466.4	474.3	482.2	474.6	466.9	459.3	451.6
130°	389.0	396.9	404.7	412.6	420.5	428.4	436.3	428.6	421.0	413.3	405.7
132.5°	341.7	348.4	355.1	361.8	368.6	375.3	382.0	375.5	369.0	362.5	356.0
135°	302.7	308.3	313.8	319.4	325.0	330.5	336.1	331.0	325.9	320.8	315.7
137.5°	265.8	270.9	276.0	281.1	286.2	291.3	296.4	292.2	288.1	283.9	279.7
140°	226.9	232.2	237.6	242.9	248.2	253.6	258.9	255.0	251.0	247.1	243.1
142.5°	189.3	194.6	200.0	205.3	210.6	216.0	221.3	218.3	215.3	212.3	209.3
145°	154.5	160.1	165.6	171.2	176.8	182.3	187.9	185.1	182.3	179.5	176.7
147.5°	124.6	129.9	135.3	140.6	145.9	151.3	156.6	154.3	152.0	149.6	147.3
150°	98.1	103.0	107.8	112.7	117.6	122.4	127.3	125.2	123.1	121.1	119.0
152.5°	73.7	78.1	82.6	87.0	91.4	95.8	100.2	98.6	97.0	95.3	93.7
155°	51.5	55.5	59.4	63.4	67.3	71.3	75.2	74.0	72.9	71.7	70.5
157.5°	32.7	36.0	39.2	42.5	45.7	49.0	52.2	51.3	50.3	49.4	48.5
160°	16.0	18.6	21.1	23.7	26.2	28.8	31.3	30.6	29.9	29.2	28.5
162.5°	4.2	5.6	6.9	8.3	9.7	11.1	12.5	12.3	12.0	11.8	11.6
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: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1117.1	1117.6	1118.1	1118.5	1119.0	1120.6	1122.2	1123.9	1125.5	1127.1	1128.7
5°	1100.2	1100.2	1100.2	1100.2	1100.2	1102.3	1104.4	1106.5	1108.6	1110.6	1112.7
7.5°	1084.7	1084.9	1085.1	1085.4	1085.6	1087.5	1089.3	1091.2	1093.0	1094.9	1096.7
10°	1064.7	1064.7	1064.7	1064.7	1064.7	1066.8	1068.9	1071.0	1073.1	1075.1	1077.2
12.5°	1049.9	1049.4	1048.9	1048.5	1048.0	1050.3	1052.6	1055.0	1057.3	1059.6	1061.9
15°	1041.5	1041.0	1040.5	1040.1	1039.6	1040.5	1041.5	1042.4	1043.3	1044.3	1045.2
17.5°	1044.1	1042.5	1040.8	1039.2	1037.6	1036.7	1035.7	1034.8	1033.9	1032.9	1032.0
20°	1056.8	1053.6	1050.3	1047.1	1043.8	1040.3	1036.8	1033.4	1029.9	1026.4	1022.9
22.5°	1073.2	1069.5	1065.8	1062.1	1058.4	1051.9	1045.4	1038.9	1032.4	1026.0	1019.5
25°	1089.8	1085.6	1081.4	1077.3	1073.1	1065.0	1056.9	1048.7	1040.6	1032.5	1024.4
27.5°	1111.3	1106.4	1101.6	1096.7	1091.8	1081.8	1071.9	1061.9	1051.9	1042.0	1032.0
30°	1130.8	1125.2	1119.6	1114.1	1108.5	1097.1	1085.8	1074.4	1063.0	1051.7	1040.3
32.5°	1156.3	1149.6	1142.9	1136.1	1129.4	1115.7	1102.0	1088.3	1074.6	1061.0	1047.3
35°	1186.1	1178.2	1170.3	1162.4	1154.5	1138.5	1122.5	1106.5	1090.5	1074.4	1058.4
37.5°	1222.0	1212.9	1203.9	1194.8	1185.8	1167.2	1148.7	1130.1	1111.6	1093.0	1074.5
40°	1265.1	1254.7	1244.3	1233.8	1223.4	1201.6	1179.8	1158.0	1136.2	1114.3	1092.5
42.5°	1314.5	1302.7	1290.9	1279.0	1267.2	1241.7	1216.2	1190.7	1165.2	1139.6	1114.1
45°	1369.7	1355.6	1341.4	1327.3	1313.1	1283.9	1254.7	1225.4	1196.2	1167.0	1137.8
47.5°	1434.4	1418.2	1402.0	1385.7	1369.5	1335.9	1302.2	1268.6	1235.0	1201.3	1167.7
50°	1509.6	1491.3	1472.9	1454.6	1436.3	1397.6	1358.8	1320.1	1281.4	1242.6	1203.9
52.5°	1589.4	1569.9	1550.5	1531.0	1511.5	1467.0	1422.4	1377.9	1333.3	1288.8	1244.2
55°	1666.1	1645.7	1625.3	1604.9	1584.5	1534.9	1485.2	1435.6	1386.0	1336.3	1286.7
57.5°	1739.9	1718.8	1697.7	1676.6	1655.5	1601.5	1547.4	1493.4	1439.3	1385.3	1331.2
60°	1807.7	1786.3	1765.0	1743.6	1722.3	1665.2	1608.2	1551.1	1494.0	1437.0	1379.9
62.5°	1862.4	1842.0	1821.6	1801.2	1780.8	1720.5	1660.2	1599.9	1539.6	1479.2	1418.9
65°	1898.4	1878.9	1859.4	1839.9	1820.4	1758.0	1695.6	1633.2	1570.8	1508.5	1446.1
67.5°	1912.5	1894.2	1875.8	1857.5	1839.2	1776.1	1713.0	1649.9	1586.8	1523.8	1460.7
70°	1895.6	1878.9	1862.2	1845.5	1828.8	1766.9	1704.9	1643.0	1581.1	1519.1	1457.2
72.5°	1850.3	1835.0	1819.7	1804.4	1789.1	1729.3	1669.4	1609.6	1549.7	1489.9	1430.0
75°	1775.9	1762.0	1748.0	1734.1	1720.2	1663.6	1607.0	1550.4	1493.8	1437.2	1380.6
77.5°	1678.0	1664.6	1651.1	1637.7	1624.2	1571.8	1519.4	1466.9	1414.5	1362.1	1309.7
80°	1560.4	1547.7	1534.9	1522.2	1509.4	1461.6	1413.8	1366.0	1318.2	1270.5	1222.7
82.5°	1434.5	1422.4	1410.3	1398.3	1386.2	1342.8	1299.4	1256.1	1212.7	1169.3	1125.9
85°	1307.3	1295.7	1284.1	1272.5	1260.9	1221.5	1182.0	1142.6	1103.2	1063.7	1024.3
87.5°	1186.5	1175.3	1164.2	1153.0	1141.9	1106.4	1070.9	1035.4	999.9	964.5	929.0
90°	1079.1	1068.2	1057.3	1046.4	1035.5	1003.3	971.0	938.8	906.5	874.3	842.0
92.5°	992.8	982.6	972.4	962.2	952.0	922.3	892.6	862.9	833.2	803.5	773.8
95°	925.3	915.8	906.3	896.8	887.3	859.9	832.5	805.2	777.8	750.4	723.0
97.5°	870.1	860.8	851.6	842.3	833.0	806.6	780.1	753.7	727.2	700.8	674.3
100°	825.0	815.5	806.0	796.5	787.0	761.3	735.5	709.8	684.0	658.3	632.5
102.5°	786.6	777.3	768.1	758.8	749.5	723.5	697.5	671.5	645.5	619.6	593.6
105°	754.4	745.3	736.3	727.2	718.2	692.4	666.7	640.9	615.2	589.4	563.7
107.5°	723.0	714.0	704.9	695.9	686.8	661.5	636.2	611.0	585.7	560.4	535.1
110°	691.4	681.9	672.4	662.9	653.4	629.0	604.7	580.3	556.0	531.6	507.3



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	658.3	649.2	640.2	631.1	622.1	598.2	574.3	550.4	526.5	502.7	478.8
115°	625.8	616.5	607.3	598.0	588.7	566.0	543.2	520.5	497.8	475.0	452.3
117.5°	591.7	583.1	574.6	566.0	557.4	535.4	513.3	491.3	469.3	447.2	425.2
120°	557.4	549.1	540.7	532.4	524.0	502.9	481.8	460.7	439.6	418.4	397.3
122.5°	521.9	513.6	505.2	496.9	488.5	468.1	447.7	427.3	406.9	386.4	366.0
125°	486.4	478.1	469.7	461.4	453.0	433.1	413.1	393.2	373.2	353.3	333.3
127.5°	444.0	436.3	428.7	421.0	413.4	395.1	376.7	358.4	340.1	321.7	303.4
130°	398.0	390.4	382.7	375.1	367.4	351.4	335.4	319.4	303.4	287.4	271.4
132.5°	349.6	343.1	336.6	330.1	323.6	309.7	295.8	281.8	267.9	254.0	240.1
135°	310.6	305.5	300.4	295.3	290.2	277.4	264.7	251.9	239.2	226.4	213.7
137.5°	275.6	271.4	267.2	263.1	258.9	247.1	235.2	223.4	211.6	199.7	187.9
140°	239.2	235.2	231.3	227.3	223.4	213.0	202.5	192.1	181.6	171.2	160.7
142.5°	206.2	203.2	200.2	197.2	194.2	184.7	175.2	165.7	156.2	146.6	137.1
145°	174.0	171.2	168.4	165.6	162.8	154.7	146.6	138.5	130.4	122.2	114.1
147.5°	145.0	142.7	140.3	138.0	135.7	128.7	121.8	114.8	107.9	100.9	94.0
150°	116.9	114.8	112.8	110.7	108.6	102.8	97.0	91.2	85.4	79.6	73.8
152.5°	92.1	90.5	88.8	87.2	85.6	80.5	75.4	70.3	65.2	60.1	55.0
155°	69.4	68.2	67.0	65.9	64.7	60.3	55.9	51.5	47.1	42.7	38.3
157.5°	47.5	46.6	45.7	44.7	43.8	40.3	36.8	33.4	29.9	26.4	22.9
160°	27.9	27.2	26.5	25.8	25.1	22.8	20.5	18.1	15.8	13.5	11.2
162.5°	11.3	11.1	10.9	10.6	10.4	9.2	8.1	6.9	5.8	4.6	3.5
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: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1130.4	1132.0	1133.6	1133.8	1134.1	1134.3	1134.5	1134.8	1135.0	1135.2	1135.5
5°	1114.8	1116.9	1119.0	1119.5	1119.9	1120.4	1120.9	1121.3	1121.8	1122.3	1122.7
7.5°	1098.6	1100.4	1102.3	1103.2	1104.1	1105.1	1106.0	1106.9	1107.8	1108.8	1109.7
10°	1079.3	1081.4	1083.5	1084.4	1085.3	1086.3	1087.2	1088.1	1089.0	1090.0	1090.9
12.5°	1064.3	1066.6	1068.9	1069.1	1069.4	1069.6	1069.8	1070.1	1070.3	1070.5	1070.8
15°	1046.1	1047.1	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0
17.5°	1031.1	1030.1	1029.2	1028.7	1028.3	1027.8	1027.3	1026.9	1026.4	1025.9	1025.5
20°	1019.5	1016.0	1012.5	1010.9	1009.3	1007.6	1006.0	1004.4	1002.8	1001.1	999.5
22.5°	1013.0	1006.5	1000.0	996.5	993.0	989.6	986.1	982.6	979.1	975.7	972.2
25°	1016.2	1008.1	1000.0	993.0	986.1	979.1	972.2	965.2	958.3	951.3	944.4
27.5°	1022.0	1012.1	1002.1	991.7	981.2	970.8	960.3	949.9	939.4	929.0	918.5
30°	1028.9	1017.6	1006.2	991.6	977.0	962.4	947.8	933.1	918.5	903.9	889.3
32.5°	1033.6	1019.9	1006.2	988.1	970.0	951.9	933.8	915.8	897.7	879.6	861.5
35°	1042.4	1026.4	1010.4	988.8	967.3	945.7	924.1	902.6	881.0	859.4	837.9
37.5°	1055.9	1037.4	1018.8	993.5	968.2	942.9	917.6	892.4	867.1	841.8	816.5
40°	1070.7	1048.9	1027.1	998.6	970.0	941.5	913.0	884.4	855.9	827.4	798.8
42.5°	1088.6	1063.1	1037.6	1005.8	974.0	942.3	910.5	878.7	846.9	815.2	783.4
45°	1108.5	1079.3	1050.1	1014.8	979.6	944.3	909.1	873.8	838.6	803.3	768.1
47.5°	1134.1	1100.4	1066.8	1027.8	988.9	949.9	910.9	872.0	833.0	794.0	755.1
50°	1165.2	1126.4	1087.7	1044.3	1000.9	957.6	914.2	870.8	827.4	784.1	740.7
52.5°	1199.7	1155.1	1110.6	1062.8	1015.0	967.3	919.5	871.7	823.9	776.2	728.4
55°	1237.1	1187.4	1137.8	1085.1	1032.5	979.8	927.2	874.5	821.9	769.2	716.6
57.5°	1277.2	1223.1	1169.1	1111.3	1053.6	995.8	938.1	880.3	822.6	764.8	707.1
60°	1322.8	1265.8	1208.7	1144.9	1081.1	1017.3	953.5	889.8	826.0	762.2	698.4
62.5°	1358.6	1298.3	1238.0	1169.3	1100.7	1032.0	963.3	894.7	826.0	757.3	688.7
65°	1383.7	1321.3	1258.9	1186.1	1113.2	1040.4	967.5	894.7	821.8	749.0	676.1
67.5°	1397.6	1334.5	1271.4	1195.1	1118.8	1042.4	966.1	889.8	813.5	737.1	660.8
70°	1395.3	1333.3	1271.4	1192.8	1114.1	1035.5	956.9	878.2	799.6	721.0	642.3
72.5°	1370.2	1310.3	1250.5	1171.9	1093.2	1014.6	936.0	857.3	778.7	700.1	621.4
75°	1324.0	1267.4	1210.8	1133.3	1055.9	978.4	900.9	823.5	746.0	668.5	591.1
77.5°	1257.2	1204.8	1152.4	1077.5	1002.6	927.6	852.7	777.8	702.9	627.9	553.0
80°	1174.9	1127.1	1079.3	1008.8	938.3	867.8	797.3	726.7	656.2	585.7	515.2
82.5°	1082.6	1039.2	995.8	930.6	865.4	800.3	735.1	669.9	604.7	539.6	474.4
85°	984.9	945.4	906.0	847.1	788.2	729.3	670.4	611.4	552.5	493.6	434.7
87.5°	893.5	858.0	822.5	768.9	715.3	661.8	608.2	554.6	501.0	447.5	393.9
90°	809.8	777.5	745.3	696.6	647.9	599.2	550.5	501.7	453.0	404.3	355.6
92.5°	744.1	714.4	684.7	640.2	595.6	551.1	506.6	462.0	417.5	373.0	328.4
95°	695.7	668.3	640.9	598.9	556.9	514.9	472.9	431.0	389.0	347.0	305.0
97.5°	647.9	621.4	595.0	556.0	517.1	478.1	439.1	400.2	361.2	322.2	283.3
100°	606.8	581.0	555.3	518.7	482.0	445.4	408.7	372.1	335.4	298.8	262.1
102.5°	567.6	541.6	515.6	481.3	447.0	412.6	378.3	344.0	309.7	275.3	241.0
105°	537.9	512.2	486.4	453.5	420.5	387.6	354.7	321.7	288.8	255.9	222.9
107.5°	509.9	484.6	459.3	427.5	395.7	364.0	332.2	300.4	268.6	236.9	205.1
110°	482.9	458.6	434.2	403.4	372.5	341.7	310.8	280.0	249.1	218.3	187.4



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	454.9	431.0	407.1	377.6	348.2	318.7	289.3	259.8	230.4	200.9	171.5
115°	429.6	406.8	384.1	355.8	327.5	299.2	270.9	242.6	214.3	186.0	157.7
117.5°	403.2	381.1	359.1	332.2	305.3	278.4	251.5	224.5	197.6	170.7	143.8
120°	376.2	355.1	334.0	308.5	283.0	257.5	232.0	206.4	180.9	155.4	129.9
122.5°	345.6	325.2	304.8	281.4	257.9	234.5	211.1	187.6	164.2	140.8	117.3
125°	313.4	293.4	273.5	252.2	230.8	209.5	188.1	166.8	145.4	124.1	102.7
127.5°	285.1	266.7	248.4	228.7	209.0	189.3	169.6	149.8	130.1	110.4	90.7
130°	255.4	239.4	223.4	205.3	187.2	169.1	151.0	132.9	114.8	96.7	78.6
132.5°	226.1	212.2	198.3	181.8	165.4	148.9	132.4	116.0	99.5	83.0	66.6
135°	200.9	188.2	175.4	160.3	145.2	130.2	115.1	100.0	84.9	69.9	54.8
137.5°	176.1	164.2	152.4	138.7	125.0	111.3	97.6	84.0	70.3	56.6	42.9
140°	150.3	139.8	129.4	117.3	105.3	93.2	81.2	69.1	57.1	45.0	33.0
142.5°	127.6	118.1	108.6	98.2	87.7	77.3	66.8	56.4	45.9	35.5	25.0
145°	106.0	97.9	89.8	80.8	71.7	62.7	53.6	44.6	35.5	26.5	17.4
147.5°	87.0	80.1	73.1	65.4	57.8	50.1	42.5	34.8	27.2	19.5	11.9
150°	68.0	62.2	56.4	50.4	44.3	38.3	32.3	26.2	20.2	14.2	8.1
152.5°	49.9	44.8	39.7	35.3	30.9	26.5	22.1	17.6	13.2	8.8	4.4
155°	33.9	29.5	25.1	22.3	19.5	16.7	13.9	11.2	8.4	5.6	2.8
157.5°	19.5	16.0	12.5	11.1	9.7	8.3	6.9	5.6	4.2	2.8	1.4
160°	8.8	6.5	4.2	3.7	3.3	2.8	2.3	1.9	1.4	0.9	0.5
162.5°	2.3	1.2	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: P201389

CATALOG NUMBER: 8LBLEDD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1135.7	1138.7	1141.7	1144.7	1147.7	1150.8	1153.8	1156.8	1159.8	1162.8	1162.1
5°	1123.2	1126.9	1130.6	1134.3	1138.0	1141.8	1145.5	1149.2	1152.9	1156.6	1156.8
7.5°	1110.6	1114.8	1119.0	1123.1	1127.3	1131.5	1135.7	1139.8	1144.0	1148.2	1149.6
10°	1091.8	1096.4	1101.1	1105.7	1110.4	1115.0	1119.7	1124.3	1129.0	1133.6	1136.2
12.5°	1071.0	1076.1	1081.2	1086.3	1091.4	1096.5	1101.6	1106.7	1111.8	1116.9	1120.6
15°	1048.0	1053.3	1058.7	1064.0	1069.3	1074.7	1080.0	1085.3	1090.7	1096.0	1100.9
17.5°	1025.0	1030.3	1035.7	1041.0	1046.4	1051.7	1057.1	1062.4	1067.8	1073.1	1079.1
20°	997.9	1003.0	1008.1	1013.2	1018.3	1023.4	1028.5	1033.6	1038.7	1043.8	1051.2
22.5°	968.7	973.6	978.4	983.3	988.2	993.0	997.9	1002.8	1007.6	1012.5	1021.5
25°	937.4	941.8	946.2	950.6	955.0	959.4	963.8	968.2	972.6	977.0	987.4
27.5°	908.1	911.8	915.5	919.2	922.9	926.7	930.4	934.1	937.8	941.5	953.3
30°	874.7	877.7	880.7	883.8	886.8	889.8	892.8	895.9	898.9	901.9	915.3
32.5°	843.4	845.0	846.6	848.3	849.9	851.5	853.1	854.8	856.4	858.0	873.3
35°	816.3	816.1	815.8	815.6	815.4	815.1	814.9	814.7	814.4	814.2	831.6
37.5°	791.2	788.9	786.6	784.2	781.9	779.6	777.3	774.9	772.6	770.3	790.0
40°	770.3	765.0	759.6	754.3	749.0	743.6	738.3	733.0	727.6	722.3	745.0
42.5°	751.6	743.2	734.9	726.5	718.2	709.8	701.5	693.1	684.8	676.4	701.9
45°	732.8	721.2	709.6	698.0	686.4	674.8	663.2	651.6	640.0	628.4	656.9
47.5°	716.1	701.3	686.4	671.6	656.7	641.9	627.0	612.2	597.3	582.5	614.0
50°	697.3	679.4	661.6	643.7	625.8	608.0	590.1	572.2	554.4	536.5	571.3
52.5°	680.6	659.0	637.4	615.9	594.3	572.7	551.1	529.6	508.0	486.4	524.9
55°	663.9	639.8	615.7	591.5	567.4	543.3	519.2	495.0	470.9	446.8	488.3
57.5°	649.3	622.2	595.0	567.9	540.7	513.6	486.4	459.3	432.1	405.0	450.0
60°	634.6	604.5	574.3	544.2	514.0	483.9	453.7	423.6	393.4	363.3	411.8
62.5°	620.0	587.1	554.1	521.2	488.3	455.3	422.4	389.5	356.5	323.6	375.6
65°	603.3	567.8	532.3	496.8	461.3	425.9	390.4	354.9	319.4	283.9	338.9
67.5°	584.5	546.9	509.3	471.8	434.2	396.6	359.0	321.5	283.9	246.3	304.1
70°	563.7	524.5	485.3	446.1	406.9	367.7	328.5	289.3	250.1	210.9	270.5
72.5°	542.8	502.0	461.2	420.3	379.5	338.7	297.9	257.0	216.2	175.4	236.4
75°	513.6	472.5	431.5	390.4	349.3	308.3	267.2	226.1	185.1	144.0	205.2
77.5°	478.1	437.5	396.9	356.3	315.7	275.1	234.5	193.9	153.3	112.7	173.7
80°	444.7	404.8	364.9	325.0	285.1	245.2	205.3	165.4	125.5	85.6	145.4
82.5°	409.2	370.2	331.3	292.3	253.3	214.4	175.4	136.4	97.5	58.5	116.7
85°	375.8	338.0	300.2	262.4	224.6	186.7	148.9	111.1	73.3	35.5	91.6
87.5°	340.3	304.3	268.4	232.4	196.5	160.5	124.6	88.6	52.7	16.7	69.4
90°	306.9	273.0	239.2	205.3	171.4	137.6	103.7	69.8	36.0	2.1	51.7
92.5°	283.9	252.4	220.8	189.3	157.7	126.2	94.6	63.1	31.5	0.0	46.6
95°	263.0	233.8	204.6	175.3	146.1	116.9	87.7	58.4	29.2	0.0	42.9
97.5°	244.3	217.2	190.0	162.9	135.7	108.6	81.4	54.3	27.1	0.0	39.7
100°	225.5	200.4	175.4	150.3	125.3	100.2	75.2	50.1	25.1	0.0	36.4
102.5°	206.7	183.7	160.8	137.8	114.8	91.9	68.9	45.9	23.0	0.0	33.6
105°	190.0	168.9	147.8	126.7	105.6	84.4	63.3	42.2	21.1	0.0	30.9
107.5°	173.3	154.3	135.3	116.2	97.2	78.2	59.2	40.1	21.1	2.1	30.4
110°	156.6	139.4	122.3	105.1	87.9	70.8	53.6	36.4	19.3	2.1	27.6



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	142.0	126.5	110.9	95.4	79.8	64.3	48.7	33.2	17.6	2.1	25.3
115°	129.4	115.3	101.1	87.0	72.8	58.7	44.5	30.4	16.2	2.1	23.0
117.5°	116.9	104.1	91.4	78.6	65.9	53.1	40.4	27.6	14.9	2.1	20.9
120°	104.4	93.0	81.7	70.3	58.9	47.6	36.2	24.8	13.5	2.1	19.3
122.5°	93.9	83.7	73.5	63.3	53.1	42.9	32.7	22.5	12.3	2.1	17.6
125°	81.4	72.6	63.8	55.0	46.2	37.3	28.5	19.7	10.9	2.1	16.0
127.5°	71.0	63.3	55.7	48.0	40.4	32.7	25.1	17.4	9.8	2.1	14.2
130°	60.5	54.0	47.5	41.0	34.5	28.1	21.6	15.1	8.6	2.1	12.5
132.5°	50.1	44.8	39.4	34.1	28.8	23.4	18.1	12.8	7.4	2.1	11.1
135°	39.7	35.5	31.3	27.2	23.0	18.8	14.6	10.5	6.3	2.1	9.8
137.5°	29.2	26.2	23.2	20.2	17.2	14.1	11.1	8.1	5.1	2.1	8.4
140°	20.9	18.8	16.7	14.6	12.5	10.5	8.4	6.3	4.2	2.1	7.0
142.5°	14.6	13.2	11.8	10.4	9.0	7.7	6.3	4.9	3.5	2.1	5.8
145°	8.4	7.7	7.0	6.3	5.6	4.9	4.2	3.5	2.8	2.1	4.9
147.5°	4.2	4.0	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	4.4
150°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2
152.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	4.0
155°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	3.7
157.5°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	3.3
160°	0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	3.3
162.5°	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	5.1
165°	0.0	0.5	0.9	1.4	1.9	2.3	2.8	3.3	3.7	4.2	4.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1161.4	1160.7	1160.0	1159.4	1158.7	1158.0	1157.3	1156.6	1157.5	1158.4	1159.4
5°	1157.0	1157.3	1157.5	1157.7	1157.9	1158.2	1158.4	1158.6	1160.5	1162.3	1164.2
7.5°	1151.0	1152.4	1153.8	1155.1	1156.5	1157.9	1159.3	1160.7	1163.5	1166.3	1169.1
10°	1138.7	1141.3	1143.8	1146.4	1148.9	1151.5	1154.0	1156.6	1160.8	1164.9	1169.1
12.5°	1124.3	1128.0	1131.7	1135.5	1139.2	1142.9	1146.6	1150.3	1155.6	1161.0	1166.3
15°	1105.8	1110.6	1115.5	1120.4	1125.3	1130.1	1135.0	1139.9	1146.9	1153.8	1160.8
17.5°	1085.1	1091.2	1097.2	1103.2	1109.2	1115.3	1121.3	1127.3	1136.1	1144.9	1153.8
20°	1058.6	1066.1	1073.5	1080.9	1088.3	1095.8	1103.2	1110.6	1121.5	1132.4	1143.3
22.5°	1030.6	1039.6	1048.7	1057.7	1066.8	1075.8	1084.9	1093.9	1107.6	1121.3	1135.0
25°	997.9	1008.3	1018.8	1029.2	1039.7	1050.1	1060.6	1071.0	1088.2	1105.3	1122.5
27.5°	965.2	977.0	988.8	1000.7	1012.5	1024.3	1036.2	1048.0	1068.6	1089.3	1109.9
30°	928.8	942.2	955.7	969.1	982.6	996.0	1009.5	1022.9	1047.0	1071.2	1095.3
32.5°	888.6	903.9	919.2	934.6	949.9	965.2	980.5	995.8	1023.6	1051.5	1079.3
35°	849.0	866.4	883.8	901.2	918.6	936.0	953.4	970.8	1002.1	1033.4	1064.7
37.5°	809.7	829.5	849.2	868.9	888.6	908.4	928.1	947.8	982.8	1017.8	1052.9
40°	767.8	790.5	813.2	836.0	858.7	881.4	904.2	926.9	965.6	1004.4	1043.1
42.5°	727.4	752.9	778.4	804.0	829.5	855.0	880.5	906.0	948.9	991.8	1034.8
45°	685.5	714.0	742.5	771.1	799.6	828.1	856.7	885.2	933.0	980.8	1028.5
47.5°	645.6	677.1	708.7	740.2	771.8	803.3	834.9	866.4	919.7	973.1	1026.4
50°	606.1	640.9	675.7	710.5	745.3	780.1	814.9	849.7	908.8	968.0	1027.1
52.5°	563.4	601.9	640.4	679.0	717.5	756.0	794.5	833.0	898.9	964.8	1030.6
55°	529.8	571.3	612.8	654.4	695.9	737.4	778.9	820.4	893.7	967.0	1040.3
57.5°	495.0	540.0	585.0	630.0	675.0	720.0	765.0	810.0	891.4	972.8	1054.3
60°	460.3	508.7	557.2	605.7	654.2	702.6	751.1	799.6	890.1	980.5	1071.0
62.5°	427.5	479.5	531.4	583.4	635.3	687.3	739.2	791.2	890.9	990.7	1090.4
65°	393.9	448.8	503.8	558.8	613.8	668.7	723.7	778.7	887.0	995.3	1103.7
67.5°	361.8	419.6	477.4	535.1	592.9	650.7	708.4	766.2	881.7	997.2	1112.7
70°	330.1	389.7	449.3	509.0	568.6	628.2	687.8	747.4	868.5	989.6	1110.6
72.5°	297.4	358.4	419.4	480.4	541.4	602.4	663.4	724.4	847.8	971.2	1094.6
75°	266.5	327.7	389.0	450.2	511.5	572.7	634.0	695.2	817.7	940.2	1062.6
77.5°	234.7	295.7	356.7	417.8	478.8	539.8	600.8	661.8	780.1	898.4	1016.7
80°	205.3	265.1	325.0	384.8	444.7	504.5	564.4	624.2	735.1	846.0	956.8
82.5°	174.9	233.2	291.4	349.6	407.8	466.1	524.3	582.5	684.8	787.1	889.4
85°	147.8	203.9	260.0	316.2	372.3	428.4	484.6	540.7	633.5	726.3	819.1
87.5°	122.0	174.7	227.3	280.0	332.6	385.3	437.9	490.6	574.3	658.1	741.8
90°	101.4	151.0	200.6	250.3	299.9	349.5	399.2	448.8	524.0	599.1	674.3
92.5°	93.2	139.9	186.5	233.1	279.7	326.4	373.0	419.6	487.3	555.1	622.8
95°	85.8	128.7	171.6	214.6	257.5	300.4	343.3	386.2	447.9	509.6	571.3
97.5°	79.3	119.0	158.7	198.3	238.0	277.7	317.3	357.0	414.1	471.1	528.2
100°	72.8	109.3	145.7	182.1	218.5	255.0	291.4	327.8	381.4	435.0	488.5
102.5°	67.3	100.9	134.5	168.2	201.8	235.4	269.1	302.7	353.5	404.3	455.1
105°	61.7	92.6	123.4	154.3	185.1	216.0	246.8	277.7	326.2	374.7	423.1
107.5°	58.7	87.0	115.3	143.6	171.9	200.2	228.5	256.8	303.0	349.1	395.3
110°	53.1	78.6	104.1	129.7	155.2	180.7	206.2	231.7	276.5	321.2	366.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	48.5	71.7	94.9	118.1	141.3	164.5	187.7	210.9	253.6	296.3	338.9
115°	43.9	64.7	85.6	106.5	127.4	148.2	169.1	190.0	230.8	271.6	312.5
117.5°	39.7	58.5	77.3	96.0	114.8	133.6	152.4	171.2	209.2	247.3	285.3
120°	36.4	53.6	70.8	87.9	105.1	122.3	139.4	156.6	192.3	228.0	263.8
122.5°	33.2	48.7	64.3	79.8	95.4	110.9	126.5	142.0	174.7	207.4	240.1
125°	29.9	43.8	57.7	71.7	85.6	99.5	113.4	127.3	157.2	187.2	217.1
127.5°	26.2	38.3	50.3	62.4	74.4	86.5	98.5	110.6	137.7	164.9	192.0
130°	23.0	33.4	43.8	54.3	64.7	75.1	85.6	96.0	119.2	142.4	165.6
132.5°	20.2	29.2	38.3	47.3	56.4	65.4	74.5	83.5	103.0	122.5	142.0
135°	17.4	25.1	32.7	40.4	48.0	55.7	63.3	71.0	87.9	104.9	121.8
137.5°	14.6	20.9	27.2	33.4	39.7	46.0	52.2	58.5	73.3	88.2	103.0
140°	11.8	16.7	21.6	26.4	31.3	36.2	41.0	45.9	58.9	71.9	84.9
142.5°	9.5	13.2	16.9	20.7	24.4	28.1	31.8	35.5	46.6	57.8	68.9
145°	7.7	10.4	13.2	16.0	18.8	21.5	24.3	27.1	36.6	46.1	55.6
147.5°	6.7	9.1	11.4	13.7	16.0	18.4	20.7	23.0	30.7	38.3	46.0
150°	6.3	8.4	10.5	12.5	14.6	16.7	18.8	20.9	26.9	33.0	39.0
152.5°	5.8	7.7	9.5	11.4	13.2	15.1	16.9	18.8	23.2	27.6	32.0
155°	5.3	7.0	8.6	10.2	11.8	13.5	15.1	16.7	19.7	22.7	25.7
157.5°	4.4	5.6	6.7	7.9	9.0	10.2	11.3	12.5	14.4	16.2	18.1
160°	4.4	5.6	6.7	7.9	9.0	10.2	11.3	12.5	13.4	14.4	15.3
162.5°	6.0	7.0	7.9	8.8	9.7	10.7	11.6	12.5	12.7	13.0	13.2
165°	5.6	6.3	7.0	7.6	8.3	9.0	9.7	10.4	10.6	10.9	11.1
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: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1160.3	1161.2	1162.1	1163.1	1164.0	1164.9	1164.7	1164.4	1164.2	1164.0	1163.7
5°	1166.0	1167.9	1169.7	1171.6	1173.4	1175.3	1176.0	1176.7	1177.4	1178.1	1178.8
7.5°	1171.9	1174.6	1177.4	1180.2	1183.0	1185.8	1187.7	1189.5	1191.4	1193.2	1195.1
10°	1173.3	1177.4	1181.6	1185.8	1189.9	1194.1	1196.9	1199.7	1202.5	1205.3	1208.0
12.5°	1171.6	1177.0	1182.3	1187.6	1193.0	1198.3	1202.5	1206.7	1210.8	1215.0	1219.2
15°	1167.7	1174.7	1181.6	1188.6	1195.5	1202.5	1208.1	1213.6	1219.2	1224.8	1230.3
17.5°	1162.6	1171.4	1180.2	1189.1	1197.9	1206.7	1214.6	1222.5	1230.3	1238.2	1246.1
20°	1154.2	1165.1	1176.0	1186.9	1197.8	1208.7	1219.1	1229.6	1240.0	1250.5	1260.9
22.5°	1148.7	1162.3	1176.0	1189.7	1203.4	1217.1	1229.4	1241.7	1254.0	1266.3	1278.5
25°	1139.7	1156.8	1174.0	1191.2	1208.3	1225.5	1239.4	1253.3	1267.2	1281.1	1295.1
27.5°	1130.6	1151.2	1171.9	1192.5	1213.2	1233.8	1249.3	1264.9	1280.4	1296.0	1311.5
30°	1119.4	1143.6	1167.7	1191.8	1216.0	1240.1	1257.7	1275.3	1293.0	1310.6	1328.2
32.5°	1107.1	1135.0	1162.8	1190.6	1218.5	1246.3	1266.5	1286.7	1306.9	1327.1	1347.2
35°	1096.0	1127.4	1158.7	1190.0	1221.3	1252.6	1276.0	1299.4	1322.9	1346.3	1369.7
37.5°	1087.9	1122.9	1157.9	1193.0	1228.0	1263.0	1289.9	1316.8	1343.7	1370.6	1397.6
40°	1081.9	1120.6	1159.4	1198.1	1236.9	1275.6	1306.9	1338.2	1369.5	1400.8	1432.2
42.5°	1077.7	1120.6	1163.5	1206.5	1249.4	1292.3	1328.7	1365.1	1401.5	1437.9	1474.4
45°	1076.3	1124.1	1171.9	1219.6	1267.4	1315.2	1358.1	1401.0	1443.9	1486.8	1529.8
47.5°	1079.8	1133.1	1186.5	1239.8	1293.2	1346.5	1395.9	1445.3	1494.7	1544.1	1593.6
50°	1086.3	1145.4	1204.6	1263.7	1322.9	1382.0	1439.8	1497.5	1555.3	1613.0	1670.8
52.5°	1096.5	1162.4	1228.3	1294.1	1360.0	1425.9	1490.8	1555.8	1620.7	1685.7	1750.6
55°	1113.6	1186.9	1260.2	1333.5	1406.8	1480.1	1555.0	1630.0	1704.9	1779.8	1854.8
57.5°	1135.7	1217.1	1298.5	1380.0	1461.4	1542.8	1625.8	1708.9	1791.9	1875.0	1958.0
60°	1161.5	1251.9	1342.4	1432.9	1523.3	1613.8	1705.0	1796.1	1887.3	1978.4	2069.6
62.5°	1190.2	1289.9	1389.7	1489.4	1589.2	1688.9	1785.6	1882.4	1979.1	2075.8	2172.6
65°	1212.0	1320.3	1428.6	1537.0	1645.3	1753.6	1855.2	1956.8	2058.4	2160.0	2261.6
67.5°	1228.2	1343.8	1459.3	1574.8	1690.3	1805.8	1909.5	2013.2	2116.9	2220.6	2324.2
70°	1231.7	1352.8	1473.9	1594.9	1716.0	1837.1	1940.3	2043.5	2146.8	2250.0	2353.2
72.5°	1218.0	1341.4	1464.8	1588.2	1711.6	1835.0	1935.4	2035.9	2136.3	2236.8	2337.2
75°	1185.1	1307.6	1430.1	1552.5	1675.0	1797.5	1892.6	1987.7	2082.8	2177.9	2273.0
77.5°	1135.0	1253.3	1371.6	1489.9	1608.2	1726.5	1815.8	1905.1	1994.4	2083.7	2173.0
80°	1067.7	1178.6	1289.5	1400.3	1511.2	1622.1	1703.3	1784.5	1865.7	1946.9	2028.0
82.5°	991.7	1093.9	1196.2	1298.5	1400.8	1503.1	1575.2	1647.4	1719.5	1791.7	1863.8
85°	911.9	1004.6	1097.4	1190.2	1283.0	1375.8	1439.1	1502.4	1565.8	1629.1	1692.4
87.5°	825.5	909.3	993.0	1076.7	1160.5	1244.2	1299.4	1354.6	1409.8	1465.0	1520.3
90°	749.4	824.6	899.7	974.9	1050.0	1125.2	1173.9	1222.6	1271.4	1320.1	1368.8
92.5°	690.5	758.3	826.0	893.7	961.5	1029.2	1072.3	1115.5	1158.6	1201.8	1244.9
95°	633.0	694.7	756.4	818.1	879.8	941.5	981.6	1021.8	1061.9	1102.0	1142.2
97.5°	585.3	642.3	699.4	756.5	813.5	870.6	908.2	945.7	983.3	1020.9	1058.4
100°	542.1	595.7	649.3	702.8	756.4	810.0	845.7	881.4	917.2	952.9	988.6
102.5°	505.9	556.7	607.5	658.3	709.1	759.9	794.7	829.5	864.3	899.1	933.9
105°	471.6	520.1	568.6	617.0	665.5	714.0	748.3	782.6	817.0	851.3	885.6
107.5°	441.4	487.6	533.7	579.9	626.0	672.2	706.3	740.4	774.5	808.6	842.7
110°	410.8	455.5	500.3	545.1	589.8	634.6	668.5	702.3	736.2	770.1	803.9



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	381.6	424.3	467.0	509.6	552.3	595.0	628.9	662.7	696.6	730.5	764.3
115°	353.3	394.1	434.9	475.8	516.6	557.4	591.0	624.7	658.3	691.9	725.6
117.5°	323.4	361.4	399.5	437.5	475.6	513.6	547.5	581.3	615.2	649.1	682.9
120°	299.5	335.2	370.9	406.7	442.4	478.1	510.6	543.0	575.5	608.0	640.4
122.5°	272.8	305.5	338.2	370.9	403.6	436.3	467.6	498.9	530.3	561.6	592.9
125°	247.0	277.0	306.9	336.8	366.8	396.7	426.2	455.6	485.1	514.5	544.0
127.5°	219.2	246.3	273.5	300.6	327.8	354.9	383.4	412.0	440.5	469.0	497.6
130°	188.8	212.0	235.2	258.4	281.6	304.8	331.7	358.6	385.5	412.4	439.4
132.5°	161.5	180.9	200.4	219.9	239.4	258.9	284.2	309.5	334.7	360.0	385.3
135°	138.7	155.7	172.6	189.5	206.5	223.4	246.6	269.8	293.0	316.2	339.3
137.5°	117.9	132.7	147.6	162.4	177.3	192.1	211.6	231.1	250.5	270.0	289.5
140°	97.9	110.8	123.8	136.8	149.8	162.8	178.8	194.8	210.8	226.8	242.9
142.5°	80.0	91.2	102.3	113.4	124.6	135.7	149.2	162.6	176.1	189.5	203.0
145°	65.1	74.7	84.2	93.7	103.2	112.7	124.1	135.4	146.8	158.2	169.5
147.5°	53.6	61.3	68.9	76.6	84.2	91.9	101.2	110.5	119.7	129.0	138.3
150°	45.0	51.1	57.1	63.1	69.2	75.2	82.6	90.0	97.5	104.9	112.3
152.5°	36.4	40.9	45.3	49.7	54.1	58.5	64.3	70.1	75.9	81.7	87.4
155°	28.7	31.8	34.8	37.8	40.8	43.8	48.4	53.1	57.7	62.4	67.0
157.5°	19.9	21.8	23.6	25.5	27.3	29.2	32.9	36.6	40.3	44.0	47.8
160°	16.2	17.2	18.1	19.0	20.0	20.9	23.4	26.0	28.5	31.1	33.6
162.5°	13.4	13.7	13.9	14.1	14.4	14.6	16.0	17.4	18.8	20.2	21.5
165°	11.3	11.6	11.8	12.0	12.3	12.5	12.7	13.0	13.2	13.4	13.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLELD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1163.5	1163.3	1163.0	1162.8	1161.9	1161.0	1160.0	1159.1	1158.2	1157.3	1156.3
5°	1179.5	1180.2	1180.9	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6
7.5°	1196.9	1198.8	1200.6	1202.5	1202.7	1203.0	1203.2	1203.4	1203.7	1203.9	1204.1
10°	1210.8	1213.6	1216.4	1219.2	1219.7	1220.1	1220.6	1221.1	1221.5	1222.0	1222.5
12.5°	1223.4	1227.5	1231.7	1235.9	1236.8	1237.7	1238.7	1239.6	1240.5	1241.4	1242.4
15°	1235.9	1241.5	1247.0	1252.6	1254.7	1256.8	1258.9	1261.0	1263.0	1265.1	1267.2
17.5°	1254.0	1261.8	1269.7	1277.6	1280.4	1283.2	1286.0	1288.8	1291.5	1294.3	1297.1
20°	1271.4	1281.8	1292.3	1302.7	1306.2	1309.7	1313.1	1316.6	1320.1	1323.6	1327.0
22.5°	1290.8	1303.1	1315.4	1327.7	1331.6	1335.6	1339.5	1343.5	1347.4	1351.4	1355.3
25°	1309.0	1322.9	1336.8	1350.7	1355.1	1359.5	1363.9	1368.3	1372.8	1377.2	1381.6
27.5°	1327.1	1342.6	1358.2	1373.7	1378.8	1383.9	1389.0	1394.1	1399.2	1404.3	1409.4
30°	1345.8	1363.5	1381.1	1398.7	1404.7	1410.8	1416.8	1422.8	1428.9	1434.9	1440.9
32.5°	1367.4	1387.6	1407.8	1428.0	1435.6	1443.3	1450.9	1458.6	1466.2	1473.9	1481.5
35°	1393.1	1416.6	1440.0	1463.4	1472.5	1481.5	1490.6	1499.6	1508.7	1517.7	1526.8
37.5°	1424.5	1451.4	1478.3	1505.2	1516.3	1527.5	1538.6	1549.7	1560.9	1572.0	1583.1
40°	1463.5	1494.8	1526.1	1557.4	1570.6	1583.8	1597.1	1610.3	1623.5	1636.7	1650.0
42.5°	1510.8	1547.2	1583.6	1620.0	1636.0	1652.0	1668.0	1684.0	1700.1	1716.1	1732.1
45°	1572.7	1615.6	1658.5	1701.4	1719.7	1738.1	1756.4	1774.7	1793.1	1811.4	1829.7
47.5°	1643.0	1692.4	1741.8	1791.2	1813.0	1834.8	1856.6	1878.4	1900.2	1922.0	1943.8
50°	1728.5	1786.3	1844.0	1901.8	1926.6	1951.4	1976.3	2001.1	2025.9	2050.7	2075.6
52.5°	1815.6	1880.5	1945.5	2010.4	2039.6	2068.9	2098.1	2127.3	2156.6	2185.8	2215.0
55°	1929.7	2004.6	2079.6	2154.5	2185.3	2216.2	2247.0	2277.9	2308.7	2339.6	2370.4
57.5°	2041.1	2124.1	2207.2	2290.2	2323.8	2357.5	2391.1	2424.7	2458.4	2492.0	2525.6
60°	2160.7	2251.9	2343.0	2434.2	2468.5	2502.9	2537.2	2571.5	2605.9	2640.2	2674.5
62.5°	2269.3	2366.0	2462.8	2559.5	2594.3	2629.1	2663.9	2698.7	2733.4	2768.2	2803.0
65°	2363.2	2464.8	2566.4	2668.0	2702.1	2736.2	2770.3	2804.4	2838.5	2872.6	2906.7
67.5°	2427.9	2531.6	2635.3	2739.0	2772.2	2805.3	2838.5	2871.7	2904.8	2938.0	2971.2
70°	2456.4	2559.7	2662.9	2766.1	2797.4	2828.7	2860.1	2891.4	2922.7	2954.0	2985.4
72.5°	2437.7	2538.1	2638.6	2739.0	2768.5	2797.9	2827.4	2856.8	2886.3	2915.7	2945.2
75°	2368.1	2463.2	2558.3	2653.4	2681.0	2708.6	2736.2	2763.8	2791.4	2819.0	2846.6
77.5°	2262.3	2351.6	2440.9	2530.2	2554.3	2578.4	2602.6	2626.7	2650.8	2674.9	2699.1
80°	2109.2	2190.4	2271.6	2352.8	2374.8	2396.9	2418.9	2440.9	2463.0	2485.0	2507.0
82.5°	1936.0	2008.1	2080.3	2152.4	2172.6	2192.8	2212.9	2233.1	2253.3	2273.5	2293.6
85°	1755.7	1819.1	1882.4	1945.7	1963.6	1981.4	1999.3	2017.1	2035.0	2052.8	2070.7
87.5°	1575.5	1630.7	1685.9	1741.1	1757.6	1774.0	1790.5	1807.0	1823.4	1839.9	1856.4
90°	1417.5	1466.3	1515.0	1563.7	1578.8	1593.8	1608.9	1624.0	1639.0	1654.1	1669.2
92.5°	1288.1	1331.2	1374.4	1417.5	1431.4	1445.3	1459.3	1473.2	1487.1	1501.0	1515.0
95°	1182.3	1222.4	1262.6	1302.7	1316.6	1330.5	1344.5	1358.4	1372.3	1386.2	1400.2
97.5°	1096.0	1133.6	1171.1	1208.7	1221.5	1234.2	1247.0	1259.8	1272.5	1285.3	1298.1
100°	1024.3	1060.1	1095.8	1131.5	1144.0	1156.5	1169.1	1181.6	1194.1	1206.6	1219.2
102.5°	968.7	1003.5	1038.3	1073.1	1084.9	1096.7	1108.6	1120.4	1132.2	1144.0	1155.9
105°	919.9	954.3	988.6	1022.9	1034.5	1046.1	1057.7	1069.3	1080.9	1092.5	1104.1
107.5°	876.8	910.9	945.0	979.1	990.7	1002.3	1013.9	1025.5	1037.1	1048.7	1060.3
110°	837.8	871.7	905.5	939.4	951.0	962.6	974.2	985.8	997.4	1009.0	1020.6



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	798.2	832.1	865.9	899.8	911.4	923.0	934.6	946.2	957.8	969.4	981.0
115°	759.2	792.8	826.5	860.1	871.9	883.8	895.6	907.4	919.3	931.1	942.9
117.5°	716.8	750.7	784.5	818.4	830.5	842.5	854.6	866.6	878.7	890.7	902.8
120°	672.9	705.4	737.8	770.3	782.6	794.9	807.2	819.5	831.8	844.1	856.4
122.5°	624.2	655.6	686.9	718.2	730.7	743.2	755.8	768.3	780.8	793.3	805.9
125°	573.4	602.9	632.3	661.8	674.3	686.8	699.4	711.9	724.4	736.9	749.5
127.5°	526.1	554.6	583.2	611.7	622.8	634.0	645.1	656.2	667.4	678.5	689.6
130°	466.3	493.2	520.1	547.0	557.7	568.3	579.0	589.7	600.3	611.0	621.7
132.5°	410.6	435.8	461.1	486.4	496.4	506.4	516.3	526.3	536.3	546.3	556.2
135°	362.5	385.7	408.9	432.1	440.7	449.3	457.9	466.5	475.0	483.6	492.2
137.5°	309.0	328.4	347.9	367.4	376.2	385.0	393.9	402.7	411.5	420.3	429.2
140°	258.9	274.9	290.9	306.9	315.2	323.6	331.9	340.3	348.6	357.0	365.3
142.5°	216.4	229.9	243.3	256.8	264.2	271.6	279.1	286.5	293.9	301.3	308.8
145°	180.9	192.3	203.6	215.0	222.2	229.4	236.6	243.8	250.9	258.1	265.3
147.5°	147.6	156.8	166.1	175.4	182.6	189.8	197.0	204.2	211.3	218.5	225.7
150°	119.7	127.2	134.6	142.0	148.7	155.4	162.2	168.9	175.6	182.3	189.1
152.5°	93.2	99.0	104.8	110.6	117.1	123.6	130.1	136.6	143.1	149.6	156.1
155°	71.7	76.3	81.0	85.6	91.4	97.2	103.0	108.8	114.6	120.4	126.2
157.5°	51.5	55.2	58.9	62.6	67.7	72.8	77.9	83.0	88.2	93.3	98.4
160°	36.2	38.7	41.3	43.8	48.2	52.6	57.0	61.4	65.9	70.3	74.7
162.5°	22.9	24.3	25.7	27.1	30.6	34.1	37.6	41.1	44.5	48.0	51.5
165°	13.9	14.1	14.4	14.6	17.4	20.2	23.0	25.8	28.5	31.3	34.1
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: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1146.1	1146.1
2.5°	1155.4	1154.5
5°	1181.6	1181.6
7.5°	1204.4	1204.6
10°	1222.9	1223.4
12.5°	1243.3	1244.2
15°	1269.3	1271.4
17.5°	1299.9	1302.7
20°	1330.5	1334.0
22.5°	1359.3	1363.2
25°	1386.0	1390.4
27.5°	1414.5	1419.6
30°	1447.0	1453.0
32.5°	1489.2	1496.8
35°	1535.8	1544.9
37.5°	1594.3	1605.4
40°	1663.2	1676.4
42.5°	1748.1	1764.1
45°	1848.1	1866.4
47.5°	1965.6	1987.4
50°	2100.4	2125.2
52.5°	2244.3	2273.5
55°	2401.3	2432.1
57.5°	2559.3	2592.9
60°	2708.9	2743.2
62.5°	2837.8	2872.6
65°	2940.8	2974.9
67.5°	3004.3	3037.5
70°	3016.7	3048.0
72.5°	2974.6	3004.1
75°	2874.2	2901.8
77.5°	2723.2	2747.3
80°	2529.1	2551.1
82.5°	2313.8	2334.0
85°	2088.5	2106.4
87.5°	1872.8	1889.3
90°	1684.2	1699.3
92.5°	1528.9	1542.8
95°	1414.1	1428.0
97.5°	1310.8	1323.6
100°	1231.7	1244.2
102.5°	1167.7	1179.5
105°	1115.7	1127.3
107.5°	1071.9	1083.5
110°	1032.2	1043.8



TEST NUMBER: P201389

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	992.6	1004.2
115°	954.8	966.6
117.5°	914.8	926.9
120°	868.7	881.0
122.5°	818.4	830.9
125°	762.0	774.5
127.5°	700.8	711.9
130°	632.3	643.0
132.5°	566.2	576.2
135°	500.8	509.4
137.5°	438.0	446.8
140°	373.7	382.0
142.5°	316.2	323.6
145°	272.5	279.7
147.5°	232.9	240.1
150°	195.8	202.5
152.5°	162.6	169.1
155°	132.0	137.8
157.5°	103.5	108.6
160°	79.1	83.5
162.5°	55.0	58.5
165°	36.9	39.7
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)