

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: P201387

Luminaire Tested: **8LBLED-LD4-9-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201387
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-L835-CD2-U
Description: 8 ft. Low Bay Linear, 6000 lm, Frst Asym lens, 3.5K
Light Source: (616) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
(OT50W0880CC), (OT30W0600CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9512.4 lumens
Efficiency: N/A
Efficacy: 145.0 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

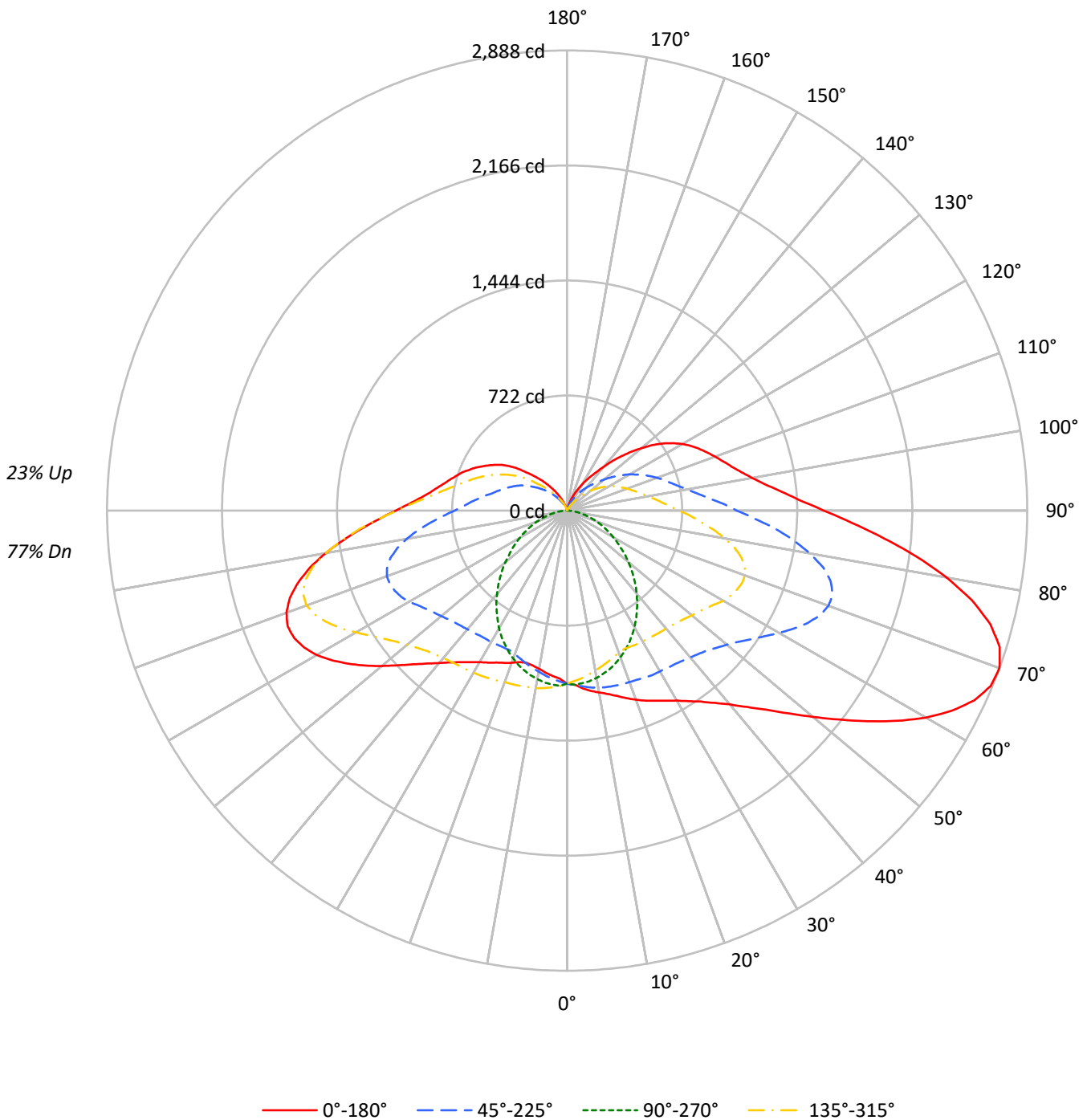
Input Watts (W): 65.59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8748	8748	8748	8748
5°	8164	8778	7601	8841
10°	7774	8681	6766	8746
15°	7532	8535	6184	8601
20°	7456	8315	5997	8399
25°	7407	8060	5917	8130
30°	7449	7740	5940	7831
35°	7689	7374	6099	7451
40°	8167	6983	6418	7043
45°	8972	6545	6924	6611
50°	10158	6084	7653	6180
55°	11647	5598	8468	5732
60°	13263	5153	9256	5306
65°	14636	4715	9819	4857
70°	15382	4217	9988	4393
75°	15151	3649	9635	3873
80°	13906	3041	8854	3279
85°	12107	2117	7847	2394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.1
10°-20°	300.9	3.2
20°-30°	485.7	5.1
30°-40°	659.8	6.9
40°-50°	853.3	9.0
50°-60°	1104.6	11.6
60°-70°	1358.2	14.3
70°-80°	1373.2	14.4
80°-90°	1056.9	11.1
90°-100°	732.1	7.7
100°-110°	548.5	5.8
110°-120°	413.5	4.3
120°-130°	280.5	2.9
130°-140°	153.4	1.6
140°-150°	65.8	0.7
150°-160°	20.4	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	889.6	9.4
0°-40°	1549.4	16.3
0°-60°	3507.3	36.9
0°-90°	7295.5	76.7
90°-120°	1694.1	17.8
90°-150°	2193.8	23.1
90°-180°	2217.0	23.3
0°-180°	9512.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1086	1086	1086	1086	1086	
5°	1119	1088	1042	1096	1119	108
15°	1204	1030	989	1038	1204	344
25°	1317	918	1052	926	1317	612
35°	1464	763	1161	771	1464	927
45°	1768	589	1365	595	1768	1384
55°	2304	413	1675	423	2304	2073
65°	2818	261	1891	269	2818	2771
75°	2749	129	1748	136	2749	2868
85°	1996	30	1293	34	1996	1718
90°	1610	0	1074	2	1610	887
95°	1353	0	922	0	1353	1070
105°	1068	0	758	0	1068	1137
115°	916	0	637	2	916	908
125°	734	0	500	2	734	656
135°	483	0	318	2	483	378
145°	265	0	178	2	265	171
155°	130	0	71	2	130	63
165°	38	0	0	4	38	11
175°	0	0	0	0	0	0
180°	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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1093.7	1093.5	1093.3	1093.0	1092.8	1092.6	1092.4	1092.1	1091.9	1091.7	1092.4
5°	1119.4	1118.1	1116.8	1115.4	1114.1	1112.8	1111.5	1110.1	1108.8	1107.5	1107.5
7.5°	1141.2	1139.7	1138.1	1136.6	1135.0	1133.5	1131.9	1130.4	1128.8	1127.3	1126.4
10°	1159.0	1157.0	1155.0	1153.1	1151.1	1149.1	1147.1	1145.2	1143.2	1141.2	1139.9
12.5°	1178.7	1176.3	1173.9	1171.5	1169.1	1166.6	1164.2	1161.8	1159.4	1157.0	1154.6
15°	1204.4	1201.3	1198.3	1195.2	1192.1	1189.1	1186.0	1182.9	1179.9	1176.8	1172.6
17.5°	1234.1	1230.4	1226.6	1222.9	1219.2	1215.4	1211.7	1208.0	1204.2	1200.5	1194.1
20°	1263.8	1259.0	1254.1	1249.3	1244.5	1239.6	1234.8	1230.0	1225.1	1220.3	1211.9
22.5°	1291.5	1286.0	1280.5	1275.0	1269.5	1264.0	1258.5	1253.0	1247.5	1242.0	1231.7
25°	1317.2	1311.3	1305.3	1299.4	1293.5	1287.5	1281.6	1275.7	1269.7	1263.8	1251.7
27.5°	1344.9	1338.5	1332.1	1325.8	1319.4	1313.0	1306.6	1300.3	1293.9	1287.5	1273.7
30°	1376.5	1369.0	1361.6	1354.1	1346.6	1339.2	1331.7	1324.2	1316.8	1309.3	1293.3
32.5°	1418.0	1409.2	1400.4	1391.6	1382.8	1374.1	1365.3	1356.5	1347.7	1338.9	1320.2
35°	1463.5	1453.4	1443.3	1433.2	1423.1	1413.0	1402.9	1392.8	1382.7	1372.6	1350.8
37.5°	1520.9	1509.0	1497.2	1485.3	1473.4	1461.6	1449.7	1437.8	1426.0	1414.1	1389.0
40°	1588.1	1574.7	1561.3	1547.9	1534.5	1521.1	1507.7	1494.3	1480.9	1467.5	1438.1
42.5°	1671.2	1655.4	1639.6	1623.7	1607.9	1592.1	1576.3	1560.4	1544.6	1528.8	1494.5
45°	1768.1	1749.6	1731.2	1712.7	1694.3	1675.8	1657.4	1638.9	1620.5	1602.0	1562.0
47.5°	1882.8	1861.5	1840.2	1818.9	1797.6	1776.2	1754.9	1733.6	1712.3	1691.0	1644.6
50°	2013.3	1989.1	1965.0	1940.8	1916.6	1892.5	1868.3	1844.1	1820.0	1795.8	1741.7
52.5°	2153.8	2127.0	2100.2	2073.4	2046.6	2019.7	1992.9	1966.1	1939.3	1912.5	1850.3
55°	2304.1	2274.9	2245.6	2216.4	2187.2	2157.9	2128.7	2099.5	2070.2	2041.0	1970.7
57.5°	2456.4	2425.2	2394.0	2362.8	2331.6	2300.3	2269.1	2237.9	2206.7	2175.5	2096.8
60°	2598.8	2566.9	2535.1	2503.2	2471.3	2439.5	2407.6	2375.7	2343.9	2312.0	2225.6
62.5°	2721.4	2689.5	2657.7	2625.8	2593.9	2562.1	2530.2	2498.3	2466.5	2434.6	2342.3
65°	2818.3	2787.1	2755.9	2724.7	2693.5	2662.3	2631.1	2599.9	2568.7	2537.5	2440.8
67.5°	2877.6	2847.3	2817.0	2786.6	2756.3	2726.0	2695.7	2665.3	2635.0	2604.7	2506.0
70°	2887.5	2858.7	2829.9	2801.1	2772.3	2743.6	2714.8	2686.0	2657.2	2628.4	2530.4
72.5°	2846.0	2819.0	2791.9	2764.9	2737.9	2710.8	2683.8	2656.8	2629.7	2602.7	2507.6
75°	2749.1	2723.8	2698.5	2673.3	2648.0	2622.7	2597.4	2572.2	2546.9	2521.6	2431.7
77.5°	2602.7	2579.0	2555.2	2531.5	2507.8	2484.0	2460.3	2436.6	2412.8	2389.1	2306.5
80°	2416.8	2397.0	2377.2	2357.5	2337.7	2317.9	2298.1	2278.4	2258.6	2238.8	2161.9
82.5°	2211.1	2193.1	2175.1	2157.0	2139.0	2121.0	2103.0	2084.9	2066.9	2048.9	1980.6
85°	1995.5	1979.2	1963.0	1946.7	1930.5	1914.2	1898.0	1881.7	1865.5	1849.2	1789.4
87.5°	1789.9	1775.0	1760.0	1745.1	1730.1	1715.2	1700.2	1685.3	1670.3	1655.4	1602.4
90°	1609.9	1595.8	1581.8	1567.7	1553.6	1539.6	1525.5	1511.4	1497.4	1483.3	1436.7
92.5°	1461.6	1448.6	1435.7	1422.7	1409.7	1396.8	1383.8	1370.8	1357.9	1344.9	1304.2
95°	1352.8	1339.6	1326.4	1313.2	1300.0	1286.9	1273.7	1260.5	1247.3	1234.1	1195.9
97.5°	1253.9	1241.4	1228.9	1216.3	1203.8	1191.3	1178.8	1166.2	1153.7	1141.2	1105.8
100°	1178.7	1166.6	1154.5	1142.5	1130.4	1118.3	1106.2	1094.2	1082.1	1070.0	1035.9
102.5°	1117.4	1105.8	1094.1	1082.5	1070.8	1059.2	1047.5	1035.9	1024.2	1012.6	979.4
105°	1068.0	1056.6	1045.1	1033.7	1022.3	1010.8	999.4	988.0	976.5	965.1	932.6
107.5°	1026.5	1014.8	1003.2	991.5	979.9	968.2	956.6	944.9	933.3	921.6	890.0
110°	988.9	977.5	966.0	954.6	943.2	931.7	920.3	908.9	897.4	886.0	854.4



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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°	951.3	939.9	928.5	917.0	905.6	894.2	882.8	871.3	859.9	848.5	816.9
115°	915.7	903.8	892.0	880.1	868.2	856.4	844.5	832.6	820.8	808.9	777.7
117.5°	878.1	866.2	854.4	842.5	830.6	818.8	806.9	795.0	783.2	771.3	739.9
120°	834.6	822.7	810.9	799.0	787.1	775.3	763.4	751.5	739.7	727.8	697.5
122.5°	787.1	775.5	763.8	752.2	740.5	728.9	717.2	705.6	693.9	682.3	652.6
125°	733.7	722.3	710.9	699.4	688.0	676.6	665.2	653.7	642.3	630.9	602.8
127.5°	674.4	663.6	652.9	642.1	631.3	620.6	609.8	599.0	588.3	577.5	551.1
130°	609.1	599.4	589.8	580.1	570.4	560.8	551.1	541.4	531.8	522.1	497.7
132.5°	545.9	536.9	527.9	518.9	509.9	500.8	491.8	482.8	473.8	464.8	443.0
135°	482.6	474.9	467.2	459.5	451.8	444.1	436.4	428.7	421.0	413.3	393.7
137.5°	423.2	416.0	408.7	401.5	394.2	387.0	379.7	372.5	365.2	358.0	342.0
140°	361.9	355.8	349.6	343.5	337.3	331.2	325.0	318.9	312.7	306.6	293.4
142.5°	306.6	302.0	297.4	292.7	288.1	283.5	278.9	274.2	269.6	265.0	253.8
145°	265.0	261.3	257.5	253.8	250.1	246.3	242.6	238.9	235.1	231.4	221.5
147.5°	227.4	224.1	220.8	217.5	214.2	211.0	207.7	204.4	201.1	197.8	189.2
150°	191.8	188.9	186.1	183.2	180.4	177.5	174.7	171.8	169.0	166.1	158.9
152.5°	160.2	157.8	155.4	152.9	150.5	148.1	145.7	143.2	140.8	138.4	132.3
155°	130.5	128.5	126.5	124.6	122.6	120.6	118.6	116.7	114.7	112.7	107.4
157.5°	102.8	101.3	99.7	98.2	96.7	95.1	93.6	92.1	90.5	89.0	84.4
160°	79.1	77.8	76.5	75.1	73.8	72.5	71.2	69.8	68.5	67.2	63.7
162.5°	55.4	54.3	53.2	52.1	51.0	49.9	48.8	47.7	46.6	45.5	43.3
165°	37.6	36.9	36.3	35.6	34.9	34.3	33.6	32.9	32.3	31.6	30.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1093.0	1093.7	1094.4	1095.0	1095.7	1096.4	1097.0	1097.7	1096.2	1094.6	1093.1
5°	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1105.1	1102.7	1100.3
7.5°	1125.5	1124.7	1123.8	1122.9	1122.0	1121.2	1120.3	1119.4	1115.7	1111.9	1108.2
10°	1138.6	1137.2	1135.9	1134.6	1133.3	1131.9	1130.6	1129.3	1124.0	1118.7	1113.5
12.5°	1152.2	1149.7	1147.3	1144.9	1142.5	1140.0	1137.6	1135.2	1128.4	1121.6	1114.8
15°	1168.4	1164.3	1160.1	1155.9	1151.7	1147.6	1143.4	1139.2	1131.1	1122.9	1114.8
17.5°	1187.7	1181.4	1175.0	1168.6	1162.2	1155.9	1149.5	1143.1	1133.4	1123.8	1114.1
20°	1203.6	1195.2	1186.9	1178.5	1170.2	1161.8	1153.5	1145.1	1133.2	1121.4	1109.5
22.5°	1221.4	1211.0	1200.7	1190.4	1180.1	1169.7	1159.4	1149.1	1134.8	1120.5	1106.2
25°	1239.6	1227.5	1215.4	1203.4	1191.3	1179.2	1167.1	1155.0	1137.6	1120.3	1102.9
27.5°	1259.8	1246.0	1232.1	1218.3	1204.4	1190.6	1176.7	1162.9	1142.0	1121.1	1100.3
30°	1277.2	1261.2	1245.1	1229.1	1213.0	1197.0	1180.9	1164.9	1141.2	1117.4	1093.7
32.5°	1301.5	1282.9	1264.2	1245.5	1226.8	1208.2	1189.5	1170.8	1143.8	1116.8	1089.7
35°	1329.1	1307.3	1285.6	1263.8	1242.1	1220.3	1198.6	1176.8	1146.7	1116.6	1086.5
37.5°	1364.0	1338.9	1313.9	1288.8	1263.8	1238.7	1213.7	1188.6	1154.8	1120.9	1087.1
40°	1408.6	1379.2	1349.7	1320.3	1290.8	1261.4	1231.9	1202.5	1164.9	1127.3	1089.8
42.5°	1460.2	1426.0	1391.7	1357.4	1323.1	1288.9	1254.6	1220.3	1178.8	1137.2	1095.7
45°	1522.0	1482.0	1442.0	1402.0	1362.0	1322.0	1282.0	1242.0	1196.1	1150.2	1104.2
47.5°	1598.3	1551.9	1505.5	1459.2	1412.8	1366.4	1320.1	1273.7	1222.3	1170.9	1119.4
50°	1687.7	1633.6	1579.6	1525.5	1471.5	1417.4	1363.4	1309.3	1252.4	1195.5	1138.5
52.5°	1788.1	1725.9	1663.7	1601.6	1539.4	1477.2	1415.0	1352.8	1289.5	1226.2	1162.9
55°	1900.4	1830.1	1759.8	1689.4	1619.1	1548.8	1478.5	1408.2	1337.4	1266.7	1195.9
57.5°	2018.2	1939.5	1860.8	1782.2	1703.5	1624.8	1546.2	1467.5	1389.0	1310.6	1232.1
60°	2139.3	2052.9	1966.5	1880.2	1793.8	1707.4	1621.1	1534.7	1448.1	1361.5	1275.0
62.5°	2250.0	2157.7	2065.4	1973.2	1880.9	1788.6	1696.3	1604.0	1508.8	1413.7	1318.5
65°	2344.1	2247.4	2150.7	2054.0	1957.3	1860.6	1763.9	1667.2	1564.1	1461.1	1358.0
67.5°	2407.4	2308.7	2210.0	2111.4	2012.7	1914.0	1815.4	1716.7	1606.8	1496.9	1387.1
70°	2432.4	2334.4	2236.4	2138.4	2040.4	1942.4	1844.4	1746.4	1631.5	1516.5	1401.6
72.5°	2412.4	2317.3	2222.1	2127.0	2031.8	1936.7	1841.5	1746.4	1629.0	1511.7	1394.3
75°	2341.8	2252.0	2162.1	2072.2	1982.3	1892.5	1802.6	1712.7	1596.2	1479.8	1363.3
77.5°	2223.9	2141.2	2058.6	1976.0	1893.4	1810.7	1728.1	1645.5	1533.2	1420.9	1308.6
80°	2085.0	2008.1	1931.2	1854.2	1777.3	1700.4	1623.5	1546.6	1441.1	1335.6	1230.2
82.5°	1912.2	1843.9	1775.6	1707.2	1638.9	1570.6	1502.2	1433.9	1336.8	1239.6	1142.5
85°	1729.6	1669.9	1610.1	1550.3	1490.5	1430.8	1371.0	1311.2	1223.1	1135.0	1046.9
87.5°	1549.5	1496.5	1443.5	1390.6	1337.6	1284.6	1231.7	1178.7	1100.0	1021.4	942.7
90°	1390.1	1343.5	1296.9	1250.4	1203.8	1157.2	1110.6	1064.0	993.5	922.9	852.4
92.5°	1263.6	1222.9	1182.3	1141.6	1101.0	1060.3	1019.7	979.0	914.6	850.2	785.8
95°	1157.6	1119.4	1081.2	1042.9	1004.7	966.5	928.2	890.0	832.0	774.0	716.0
97.5°	1070.4	1035.0	999.6	964.3	928.9	893.5	858.1	822.7	769.1	715.5	661.9
100°	1001.9	967.8	933.7	899.7	865.6	831.5	797.5	763.4	713.3	663.2	613.1
102.5°	946.2	913.1	879.9	846.7	813.5	780.4	747.2	714.0	666.5	619.1	571.6
105°	900.1	867.5	835.0	802.5	770.0	737.4	704.9	672.4	626.9	581.4	535.9
107.5°	858.3	826.7	795.0	763.4	731.7	700.1	668.4	636.8	592.9	548.9	505.0
110°	822.7	791.1	759.4	727.8	696.1	664.5	632.8	601.2	558.8	516.4	474.0



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	785.2	753.6	721.9	690.3	658.6	627.0	595.3	563.7	523.3	482.8	442.4
115°	746.5	715.3	684.1	652.9	621.7	590.5	559.3	528.1	489.2	450.3	411.4
117.5°	708.5	677.0	645.6	614.2	582.8	551.3	519.9	488.5	452.0	415.5	379.1
120°	667.2	636.8	606.5	576.2	545.9	515.5	485.2	454.9	420.6	386.3	352.1
122.5°	623.0	593.3	563.6	534.0	504.3	474.6	445.0	415.3	384.1	352.9	321.7
125°	574.6	546.5	518.4	490.2	462.1	434.0	405.8	377.7	349.1	320.6	292.0
127.5°	524.8	498.4	472.0	445.7	419.3	392.9	366.6	340.2	314.5	288.8	263.1
130°	473.3	448.9	424.5	400.2	375.8	351.4	327.0	302.6	279.7	256.9	234.0
132.5°	421.3	399.5	377.8	356.0	334.3	312.5	290.8	269.0	248.8	228.6	208.3
135°	374.2	354.6	335.1	315.5	296.0	276.4	256.9	237.3	219.5	201.7	183.9
137.5°	325.9	309.9	293.8	277.8	261.7	245.7	229.6	213.6	197.1	180.6	164.2
140°	280.2	267.0	253.8	240.7	227.5	214.3	201.1	187.9	173.2	158.5	143.7
142.5°	242.6	231.4	220.2	209.0	197.8	186.6	175.4	164.2	150.8	137.4	124.0
145°	211.6	201.7	191.8	182.0	172.1	162.2	152.3	142.4	130.5	118.7	106.8
147.5°	180.6	172.1	163.5	154.9	146.3	137.8	129.2	120.6	110.5	100.4	90.3
150°	151.6	144.4	137.1	129.9	122.6	115.4	108.1	100.9	92.5	84.2	75.8
152.5°	126.1	120.0	113.8	107.7	101.5	95.4	89.2	83.1	76.3	69.5	62.7
155°	102.2	96.9	91.6	86.4	81.1	75.8	70.6	65.3	60.0	54.7	49.5
157.5°	79.8	75.2	70.6	65.9	61.3	56.7	52.1	47.5	44.0	40.5	36.9
160°	60.2	56.7	53.2	49.6	46.1	42.6	39.1	35.6	33.0	30.3	27.7
162.5°	41.1	38.9	36.7	34.5	32.3	30.1	27.9	25.7	23.9	22.2	20.4
165°	29.0	27.7	26.4	25.0	23.7	22.4	21.1	19.8	18.5	17.2	15.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLELD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1091.5	1090.0	1088.4	1086.9	1085.3	1083.8	1084.9	1086.0	1087.1	1088.2	1089.3
5°	1097.9	1095.4	1093.0	1090.6	1088.2	1085.8	1086.0	1086.2	1086.5	1086.7	1086.9
7.5°	1104.5	1100.7	1097.0	1093.3	1089.5	1085.8	1085.1	1084.5	1083.8	1083.2	1082.5
10°	1108.2	1102.9	1097.6	1092.4	1087.1	1081.8	1080.0	1078.3	1076.5	1074.8	1073.0
12.5°	1108.0	1101.1	1094.3	1087.5	1080.7	1073.9	1071.0	1068.2	1065.3	1062.5	1059.6
15°	1106.7	1098.5	1090.4	1082.3	1074.1	1066.0	1062.0	1058.1	1054.1	1050.2	1046.2
17.5°	1104.4	1094.8	1085.1	1075.4	1065.8	1056.1	1050.6	1045.1	1039.6	1034.1	1028.7
20°	1097.6	1085.8	1073.9	1062.0	1050.2	1038.3	1031.7	1025.1	1018.5	1011.9	1005.4
22.5°	1091.9	1077.7	1063.4	1049.1	1034.8	1020.5	1012.6	1004.7	996.8	988.9	980.9
25°	1085.6	1068.2	1050.9	1033.5	1016.2	998.8	989.8	980.8	971.8	962.8	953.7
27.5°	1079.4	1058.5	1037.6	1016.8	995.9	975.0	964.7	954.4	944.0	933.7	923.4
30°	1070.0	1046.2	1022.5	998.8	975.0	951.3	939.4	927.6	915.7	903.8	892.0
32.5°	1062.7	1035.7	1008.7	981.6	954.6	927.6	914.0	900.3	886.7	873.1	859.4
35°	1056.4	1026.2	996.1	966.0	935.9	905.8	890.0	874.2	858.3	842.5	826.7
37.5°	1053.3	1019.4	985.6	951.8	917.9	884.1	866.1	848.1	830.0	812.0	794.0
40°	1052.2	1014.6	977.0	939.5	901.9	864.3	843.6	823.0	802.3	781.7	761.0
42.5°	1054.2	1012.6	971.1	929.6	888.0	846.5	823.0	799.5	776.0	752.5	728.9
45°	1058.3	1012.4	966.5	920.5	874.6	828.7	802.1	775.5	748.9	722.3	695.8
47.5°	1068.0	1016.6	965.2	913.7	862.3	810.9	781.5	752.0	722.6	693.1	663.7
50°	1081.6	1024.7	967.8	910.8	853.9	797.0	764.0	731.1	698.1	665.2	632.2
52.5°	1099.6	1036.4	973.1	909.8	846.5	783.2	747.2	711.1	675.1	639.0	603.0
55°	1125.1	1054.4	983.6	912.8	842.1	771.3	731.5	691.7	652.0	612.2	572.4
57.5°	1153.7	1075.2	996.8	918.3	839.9	761.4	718.3	675.3	632.2	589.1	546.1
60°	1188.4	1101.8	1015.2	928.7	842.1	755.5	708.7	661.9	615.1	568.3	521.4
62.5°	1223.4	1128.2	1033.1	937.9	842.8	747.6	697.5	647.4	597.3	547.2	497.1
65°	1255.0	1151.9	1048.9	945.8	842.8	739.7	686.5	633.3	580.2	527.0	473.8
67.5°	1277.2	1167.3	1057.4	947.6	837.7	727.8	672.0	616.2	560.4	504.6	448.7
70°	1286.7	1171.7	1056.8	941.9	826.9	712.0	654.2	596.4	538.6	480.8	423.0
72.5°	1277.0	1159.6	1042.3	924.9	807.6	690.2	631.3	572.4	513.5	454.6	395.8
75°	1246.8	1130.4	1013.9	897.4	781.0	664.5	605.0	545.4	485.9	426.3	366.8
77.5°	1196.3	1084.1	971.8	859.5	747.2	634.9	575.3	515.8	456.2	396.7	337.1
80°	1124.7	1019.2	913.7	808.3	702.8	597.3	539.3	481.3	423.3	365.3	307.2
82.5°	1045.4	948.2	851.1	754.0	656.8	559.7	503.2	446.7	390.3	333.8	277.3
85°	958.8	870.6	782.5	694.4	606.3	518.2	463.9	409.6	355.4	301.1	246.8
87.5°	864.0	785.4	706.7	628.0	549.4	470.7	419.5	368.3	317.1	265.9	214.7
90°	781.9	711.3	640.8	570.3	499.7	429.2	381.5	333.8	286.1	238.4	190.8
92.5°	721.4	657.1	592.7	528.3	463.9	399.5	355.1	310.7	266.3	221.9	177.6
95°	658.0	599.9	541.9	483.9	425.9	367.9	327.0	286.1	245.3	204.4	163.5
97.5°	608.3	554.6	501.0	447.4	393.8	340.2	302.4	264.6	226.8	189.0	151.2
100°	563.0	512.9	462.8	412.7	362.6	312.5	277.8	243.1	208.3	173.6	138.9
102.5°	524.1	476.7	429.2	381.7	334.3	286.8	254.9	223.1	191.2	159.3	127.5
105°	490.4	445.0	399.5	354.0	308.5	263.0	233.8	204.6	175.3	146.1	116.9
107.5°	461.0	417.1	373.1	329.2	285.2	241.3	214.5	187.7	160.9	134.1	107.2
110°	431.6	389.1	346.7	304.3	261.9	219.5	195.1	170.7	146.3	121.9	97.6



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	402.0	361.5	321.1	280.7	240.2	199.8	177.6	155.4	133.2	111.0	88.8
115°	372.5	333.6	294.7	255.8	216.9	178.0	158.2	138.4	118.7	98.9	79.1
117.5°	342.6	306.1	269.6	233.2	196.7	160.2	142.4	124.6	106.8	89.0	71.2
120°	317.8	283.5	249.2	215.0	180.7	146.4	130.1	113.9	97.6	81.3	65.1
122.5°	290.5	259.3	228.1	196.9	165.7	134.5	119.6	104.6	89.7	74.7	59.8
125°	263.4	234.9	206.3	177.7	149.2	120.6	107.2	93.8	80.4	67.0	53.6
127.5°	237.4	211.6	185.9	160.2	134.5	108.8	96.7	84.6	72.5	60.4	48.4
130°	211.2	188.3	165.5	142.6	119.8	96.9	86.1	75.4	64.6	53.8	43.1
132.5°	188.1	167.9	147.7	127.4	107.2	87.0	77.3	67.7	58.0	48.3	38.7
135°	166.1	148.3	130.5	112.7	94.9	77.1	68.5	60.0	51.4	42.8	34.3
137.5°	147.7	131.2	114.7	98.3	81.8	65.3	58.0	50.8	43.5	36.3	29.0
140°	129.0	114.3	99.6	84.8	70.1	55.4	49.2	43.1	36.9	30.8	24.6
142.5°	110.6	97.1	83.7	70.3	56.9	43.5	38.7	33.8	29.0	24.2	19.3
145°	94.9	83.1	71.2	59.3	47.5	35.6	31.6	27.7	23.7	19.8	15.8
147.5°	80.2	70.1	60.0	49.9	39.8	29.7	26.4	23.1	19.8	16.5	13.2
150°	67.5	59.1	50.8	42.4	34.1	25.7	22.8	20.0	17.1	14.3	11.4
152.5°	55.9	49.0	42.2	35.4	28.6	21.8	19.4	17.0	14.5	12.1	9.7
155°	44.2	38.9	33.6	28.4	23.1	17.8	15.8	13.8	11.9	9.9	7.9
157.5°	33.4	29.9	26.4	22.8	19.3	15.8	14.0	12.3	10.5	8.8	7.0
160°	25.1	22.4	19.8	17.2	14.5	11.9	10.6	9.3	7.9	6.6	5.3
162.5°	18.7	16.9	15.2	13.4	11.7	9.9	8.8	7.7	6.6	5.5	4.4
165°	14.5	13.2	11.9	10.5	9.2	7.9	7.0	6.1	5.3	4.4	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLELD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1090.4	1091.5	1092.6	1093.7	1091.7	1089.7	1087.8	1085.8	1083.8	1081.8	1079.9
5°	1087.1	1087.4	1087.6	1087.8	1085.2	1082.5	1079.9	1077.2	1074.6	1071.9	1069.3
7.5°	1081.9	1081.2	1080.6	1079.9	1076.6	1073.3	1070.0	1066.7	1063.4	1060.1	1056.8
10°	1071.3	1069.5	1067.8	1066.0	1062.3	1058.5	1054.8	1051.1	1047.3	1043.6	1039.9
12.5°	1056.8	1053.9	1051.1	1048.2	1044.2	1040.3	1036.3	1032.4	1028.4	1024.5	1020.5
15°	1042.3	1038.3	1034.4	1030.4	1026.2	1022.0	1017.9	1013.7	1009.5	1005.3	1001.2
17.5°	1023.2	1017.7	1012.2	1006.7	1002.3	997.9	993.5	989.1	984.7	980.3	975.9
20°	998.8	992.2	985.6	979.0	974.8	970.6	966.5	962.3	958.1	953.9	949.8
22.5°	973.0	965.1	957.2	949.3	945.3	941.4	937.4	933.5	929.5	925.6	921.6
25°	944.7	935.7	926.7	917.7	914.2	910.7	907.1	903.6	900.1	896.6	893.0
27.5°	913.1	902.7	892.4	882.1	879.7	877.3	874.8	872.4	870.0	867.6	865.1
30°	880.1	868.2	856.4	844.5	842.7	841.0	839.2	837.5	835.7	834.0	832.2
32.5°	845.8	832.2	818.5	804.9	804.2	803.6	802.9	802.3	801.6	801.0	800.3
35°	810.9	795.0	779.2	763.4	764.1	764.7	765.4	766.0	766.7	767.3	768.0
37.5°	776.0	757.9	739.9	721.9	724.8	727.6	730.5	733.3	736.2	739.0	741.9
40°	740.4	719.7	699.1	678.4	683.9	689.4	694.9	700.4	705.8	711.3	716.8
42.5°	705.4	681.9	658.4	634.9	643.0	651.1	659.3	667.4	675.5	683.6	691.8
45°	669.2	642.6	616.0	589.4	600.6	611.8	623.0	634.2	645.4	656.6	667.8
47.5°	634.2	604.8	575.3	545.9	560.0	574.0	588.1	602.1	616.2	630.2	644.3
50°	599.3	566.3	533.4	500.4	517.8	535.1	552.5	569.8	587.2	604.5	621.9
52.5°	566.9	530.9	494.8	458.8	478.8	498.8	518.8	538.8	558.8	578.8	598.8
55°	532.6	492.9	453.1	413.3	436.8	460.3	483.9	507.4	530.9	554.4	578.0
57.5°	503.0	459.9	416.9	373.8	399.9	426.1	452.2	478.4	504.5	530.7	556.8
60°	474.6	427.8	381.0	334.2	363.2	392.2	421.2	450.2	479.3	508.3	537.3
62.5°	447.0	396.9	346.8	296.7	328.1	359.5	391.0	422.4	453.8	485.2	516.7
65°	420.6	367.5	314.3	261.1	294.7	328.3	362.0	395.6	429.2	462.8	496.5
67.5°	392.9	337.1	281.3	225.5	261.1	296.7	332.3	367.9	403.5	439.1	474.7
70°	365.2	307.4	249.6	191.8	228.9	266.1	303.2	340.4	377.5	414.7	451.8
72.5°	336.9	278.0	219.1	160.2	199.3	238.4	277.5	316.6	355.8	394.9	434.0
75°	307.2	247.7	188.1	128.6	167.3	205.9	244.6	283.3	321.9	360.6	399.3
77.5°	277.6	218.0	158.5	98.9	137.4	175.8	214.3	252.7	291.2	329.6	368.1
80°	249.2	191.2	133.2	75.2	112.8	150.3	187.9	225.5	263.0	300.6	338.2
82.5°	220.8	164.4	107.9	51.4	88.1	124.8	161.5	198.2	234.9	271.6	308.3
85°	192.5	138.3	84.0	29.7	65.1	100.5	135.8	171.2	206.6	242.0	277.3
87.5°	163.5	112.3	61.1	9.9	43.7	77.6	111.4	145.3	179.1	213.0	246.8
90°	143.1	95.4	47.7	0.0	31.6	63.3	94.9	126.6	158.2	189.9	221.5
92.5°	133.2	88.8	44.4	0.0	29.2	58.4	87.7	116.9	146.1	175.3	204.6
95°	122.6	81.8	40.9	0.0	27.0	54.1	81.1	108.1	135.2	162.2	189.2
97.5°	113.4	75.6	37.8	0.0	24.8	49.7	74.5	99.3	124.2	149.0	173.8
100°	104.2	69.4	34.7	0.0	22.9	45.7	68.6	91.4	114.3	137.1	160.0
102.5°	95.6	63.7	31.9	0.0	20.9	41.8	62.6	83.5	104.4	125.3	146.1
105°	87.7	58.4	29.2	0.0	19.1	38.2	57.4	76.5	95.6	114.7	133.9
107.5°	80.4	53.6	26.8	0.0	17.4	34.7	52.1	69.4	86.8	104.1	121.5
110°	73.2	48.8	24.4	0.0	15.8	31.6	47.5	63.3	79.1	94.9	110.8



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	66.6	44.4	22.2	0.0	14.1	28.1	42.2	56.3	70.3	84.4	98.5
115°	59.3	39.6	19.8	0.0	12.7	25.5	38.2	51.0	63.7	76.5	89.2
117.5°	53.4	35.6	17.8	0.0	11.4	22.8	34.3	45.7	57.1	68.5	80.0
120°	48.8	32.5	16.3	0.0	10.1	20.2	30.3	40.4	50.6	60.7	70.8
122.5°	44.8	29.9	14.9	0.0	9.0	18.0	27.0	36.0	45.1	54.1	63.1
125°	40.2	26.8	13.4	0.0	7.7	15.4	23.1	30.8	38.4	46.1	53.8
127.5°	36.3	24.2	12.1	0.0	6.2	12.3	18.5	24.6	30.8	36.9	43.1
130°	32.3	21.5	10.8	0.0	4.8	9.7	14.5	19.3	24.2	29.0	33.8
132.5°	29.0	19.3	9.7	0.0	3.7	7.5	11.2	14.9	18.7	22.4	26.1
135°	25.7	17.1	8.6	0.0	2.6	5.3	7.9	10.5	13.2	15.8	18.4
137.5°	21.8	14.5	7.3	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.7
140°	18.5	12.3	6.2	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6
142.5°	14.5	9.7	4.8	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
145°	11.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	7.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.6	1.8	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: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1077.9	1075.9	1075.2	1074.6	1073.9	1073.3	1072.6	1072.0	1071.3	1070.7	1070.0
5°	1066.6	1064.0	1063.1	1062.2	1061.4	1060.5	1059.6	1058.7	1057.9	1057.0	1056.1
7.5°	1053.5	1050.2	1048.9	1047.6	1046.2	1044.9	1043.6	1042.3	1040.9	1039.6	1038.3
10°	1036.1	1032.4	1031.1	1029.8	1028.4	1027.1	1025.8	1024.5	1023.1	1021.8	1020.5
12.5°	1016.6	1012.6	1011.3	1010.0	1008.6	1007.3	1006.0	1004.7	1003.3	1002.0	1000.7
15°	997.0	992.8	991.7	990.6	989.5	988.4	987.3	986.2	985.1	984.0	982.9
17.5°	971.5	967.1	967.1	967.1	967.1	967.1	967.1	967.1	967.1	967.1	967.1
20°	945.6	941.4	942.1	942.7	943.4	944.0	944.7	945.3	946.0	946.6	947.3
22.5°	917.7	913.7	916.6	919.4	922.3	925.1	928.0	930.8	933.7	936.5	939.4
25°	889.5	886.0	892.2	898.3	904.5	910.6	916.8	922.9	929.1	935.2	941.4
27.5°	862.7	860.3	869.8	879.2	888.7	898.1	907.6	917.0	926.5	935.9	945.4
30°	830.5	828.7	841.9	855.1	868.2	881.4	894.6	907.8	920.9	934.1	947.3
32.5°	799.7	799.0	815.9	832.8	849.8	866.7	883.6	900.5	917.5	934.4	951.3
35°	768.6	769.3	790.0	810.6	831.3	852.0	872.6	893.3	914.0	934.6	955.3
37.5°	744.7	747.6	771.3	795.1	818.8	842.5	866.3	890.0	913.7	937.5	961.2
40°	722.3	727.8	754.4	781.0	807.6	834.2	860.7	887.3	913.9	940.5	967.1
42.5°	699.9	708.0	737.7	767.3	797.0	826.7	856.3	886.0	915.7	945.3	975.0
45°	679.0	690.2	723.2	756.1	789.1	822.1	855.0	888.0	921.0	953.9	986.9
47.5°	658.3	672.4	709.1	745.8	782.5	819.2	855.9	892.6	929.3	966.0	1002.7
50°	639.2	656.6	697.3	737.9	778.6	819.2	859.9	900.5	941.2	981.8	1022.5
52.5°	618.8	638.8	683.4	728.0	772.6	817.2	861.9	906.5	951.1	995.7	1040.3
55°	601.5	625.0	674.0	723.0	772.0	821.0	870.0	919.0	968.0	1017.0	1066.0
57.5°	583.0	609.1	663.2	717.2	771.3	825.4	879.4	933.5	987.6	1041.6	1095.7
60°	566.3	595.3	655.1	714.8	774.6	834.4	894.1	953.9	1013.7	1073.4	1133.2
62.5°	548.1	579.5	643.7	707.8	772.0	836.2	900.3	964.5	1028.7	1092.8	1157.0
65°	530.1	563.7	631.6	699.5	767.4	835.3	903.2	971.1	1039.0	1106.9	1174.8
67.5°	510.3	545.9	617.3	688.7	760.1	831.5	903.0	974.4	1045.8	1117.2	1188.6
70°	489.0	526.1	599.5	672.9	746.3	819.7	893.0	966.4	1039.8	1113.2	1186.6
72.5°	473.1	512.2	585.2	658.1	731.1	804.0	877.0	949.9	1022.9	1095.8	1168.8
75°	437.9	476.6	549.3	622.1	694.8	767.6	840.3	913.1	985.8	1058.6	1131.3
77.5°	406.5	445.0	515.1	585.2	655.3	725.4	795.5	865.6	935.7	1005.8	1075.9
80°	375.7	413.3	479.0	544.7	610.4	676.1	741.9	807.6	873.3	939.0	1004.7
82.5°	345.0	381.7	442.4	503.0	563.7	624.3	685.0	745.6	806.3	866.9	927.6
85°	312.7	348.1	403.5	458.9	514.2	569.6	625.0	680.4	735.7	791.1	846.5
87.5°	280.7	314.5	365.7	416.9	468.1	519.3	570.5	621.7	672.9	724.1	775.3
90°	253.2	284.8	331.2	377.5	423.9	470.3	516.6	563.0	609.4	655.7	702.1
92.5°	233.8	263.0	305.0	347.0	388.9	430.9	472.9	514.9	556.8	598.8	640.8
95°	216.3	243.3	282.4	321.5	360.6	399.7	438.9	478.0	517.1	556.2	595.3
97.5°	198.7	223.5	260.2	296.9	333.6	370.3	407.0	443.7	480.4	517.1	553.8
100°	182.8	205.7	240.4	275.1	309.9	344.6	379.3	414.0	448.8	483.5	518.2
102.5°	167.0	187.9	220.4	252.9	285.5	318.0	350.5	383.0	415.6	448.1	480.6
105°	153.0	172.1	203.3	234.5	265.7	296.9	328.1	359.3	390.5	421.7	452.9
107.5°	138.8	156.2	186.1	216.0	245.9	275.8	305.6	335.5	365.4	395.3	425.2
110°	126.6	142.4	171.2	200.0	228.8	257.6	286.3	315.1	343.9	372.7	401.5



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	112.5	126.6	154.3	182.0	209.7	237.4	265.0	292.7	320.4	348.1	375.8
115°	102.0	114.7	141.1	167.4	193.8	220.2	246.5	272.9	299.3	325.6	352.0
117.5°	91.4	102.8	128.1	153.4	178.6	203.9	229.2	254.5	279.7	305.0	330.3
120°	80.9	91.0	114.7	138.5	162.2	185.9	209.7	233.4	257.1	280.9	304.6
122.5°	72.1	81.1	103.1	125.1	147.0	169.0	191.0	213.0	234.9	256.9	278.9
125°	61.5	69.2	89.2	109.2	129.2	149.2	169.2	189.2	209.2	229.2	249.2
127.5°	49.2	55.4	74.1	92.8	111.4	130.1	148.8	167.5	186.1	204.8	223.5
130°	38.7	43.5	60.4	77.3	94.3	111.2	128.1	145.0	162.0	178.9	195.8
132.5°	29.9	33.6	48.5	63.5	78.4	93.4	108.3	123.3	138.2	153.2	168.1
135°	21.1	23.7	36.7	49.6	62.6	75.6	88.5	101.5	114.5	127.4	140.4
137.5°	12.3	13.8	25.2	36.7	48.1	59.5	71.0	82.4	93.8	105.3	116.7
140°	5.2	5.9	15.8	25.7	35.6	45.5	55.3	65.2	75.1	85.0	94.9
142.5°	1.8	2.0	10.1	18.3	26.4	34.5	42.7	50.8	58.9	67.1	75.2
145°	0.0	0.0	6.4	12.8	19.1	25.5	31.9	38.3	44.6	51.0	57.4
147.5°	0.0	0.0	4.6	9.2	13.8	18.4	23.1	27.7	32.3	36.9	41.5
150°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	19.8	23.1	26.4	29.7
152.5°	0.0	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.3	14.0	15.8
155°	0.0	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.9
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: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1069.3	1068.7	1068.0	1067.3	1066.7	1066.0	1065.3	1064.7	1064.0	1063.1	1062.2
5°	1054.8	1053.5	1052.2	1050.9	1049.5	1048.2	1046.9	1045.6	1044.3	1044.1	1043.9
7.5°	1037.2	1036.1	1035.0	1033.9	1032.8	1031.7	1030.6	1029.5	1028.4	1028.2	1028.0
10°	1019.6	1018.7	1017.9	1017.0	1016.1	1015.2	1014.4	1013.5	1012.6	1012.2	1011.7
12.5°	1000.3	999.8	999.4	999.0	998.5	998.1	997.7	997.2	996.8	996.8	996.8
15°	983.1	983.3	983.6	983.8	984.0	984.2	984.5	984.7	984.9	985.3	985.8
17.5°	968.9	970.6	972.4	974.1	975.9	977.6	979.4	981.1	982.9	984.4	986.0
20°	952.4	957.4	962.5	967.5	972.6	977.6	982.7	987.7	992.8	995.4	998.1
22.5°	946.9	954.4	961.8	969.3	976.8	984.3	991.7	999.2	1006.7	1009.8	1012.9
25°	950.4	959.4	968.4	977.4	986.5	995.5	1004.5	1013.5	1022.5	1025.8	1029.1
27.5°	955.7	966.0	976.4	986.7	997.0	1007.3	1017.7	1028.0	1038.3	1042.5	1046.7
30°	959.0	970.6	982.3	993.9	1005.6	1017.2	1028.9	1040.5	1052.2	1057.3	1062.3
32.5°	964.9	978.5	992.2	1005.8	1019.4	1033.0	1046.7	1060.3	1073.9	1079.8	1085.8
35°	970.9	986.5	1002.1	1017.7	1033.3	1048.9	1064.5	1080.1	1095.7	1102.9	1110.2
37.5°	979.2	997.2	1015.3	1033.3	1051.3	1069.3	1087.4	1105.4	1123.4	1132.0	1140.5
40°	988.2	1009.3	1030.4	1051.5	1072.6	1093.7	1114.8	1135.9	1157.0	1167.1	1177.2
42.5°	999.4	1023.8	1048.2	1072.6	1097.0	1121.4	1145.8	1170.2	1194.6	1206.5	1218.3
45°	1015.2	1043.6	1071.9	1100.3	1128.6	1157.0	1185.3	1213.7	1242.0	1255.6	1269.2
47.5°	1035.2	1067.7	1100.3	1132.8	1165.3	1197.8	1230.4	1262.9	1295.4	1311.0	1326.6
50°	1059.6	1096.8	1133.9	1171.0	1208.2	1245.3	1282.4	1319.6	1356.7	1374.5	1392.3
52.5°	1082.9	1125.6	1168.2	1210.8	1253.5	1296.1	1338.7	1381.4	1424.0	1443.3	1462.7
55°	1113.5	1160.9	1208.4	1255.9	1303.3	1350.8	1398.3	1445.7	1493.2	1513.4	1533.6
57.5°	1147.3	1199.0	1250.6	1302.2	1353.9	1405.5	1457.1	1508.8	1560.4	1581.3	1602.2
60°	1187.5	1241.8	1296.1	1350.4	1404.6	1458.9	1513.2	1567.5	1621.8	1643.1	1664.4
62.5°	1214.4	1271.7	1329.1	1386.4	1443.8	1501.1	1558.5	1615.8	1673.2	1694.1	1715.0
65°	1234.4	1293.9	1353.5	1413.0	1472.6	1532.1	1591.7	1651.2	1710.8	1730.8	1750.8
67.5°	1248.2	1307.7	1367.3	1426.8	1486.4	1545.9	1605.5	1665.0	1724.6	1743.9	1763.3
70°	1245.3	1304.0	1362.6	1421.3	1480.0	1538.7	1597.3	1656.0	1714.7	1732.5	1750.3
72.5°	1225.1	1281.3	1337.6	1393.9	1450.1	1506.4	1562.7	1618.9	1675.2	1691.9	1708.6
75°	1184.7	1238.1	1291.5	1344.9	1398.3	1451.7	1505.1	1558.5	1611.9	1627.1	1642.2
77.5°	1125.3	1174.8	1224.2	1273.7	1323.1	1372.6	1422.0	1471.5	1520.9	1535.6	1550.3
80°	1050.2	1095.7	1141.2	1186.7	1232.1	1277.6	1323.1	1368.6	1414.1	1427.9	1441.8
82.5°	969.1	1010.7	1052.2	1093.7	1135.3	1176.8	1218.3	1259.9	1301.4	1314.1	1326.9
85°	884.5	922.5	960.5	998.5	1036.6	1074.6	1112.6	1150.6	1188.6	1200.2	1211.9
87.5°	808.0	840.8	873.5	906.3	939.0	971.8	1004.5	1037.3	1070.0	1081.9	1093.7
90°	732.2	762.3	792.4	822.5	852.7	882.8	912.9	943.0	973.1	984.3	995.5
92.5°	669.6	698.4	727.2	756.0	784.7	813.5	842.3	871.1	899.9	909.8	919.7
95°	622.1	648.9	675.7	702.5	729.4	756.2	783.0	809.8	836.6	846.0	855.5
97.5°	578.8	603.9	628.9	654.0	679.0	704.1	729.1	754.2	779.2	789.1	799.0
100°	543.0	567.9	592.7	617.5	642.4	667.2	692.0	716.9	741.7	751.1	760.6
102.5°	505.4	530.3	555.1	579.9	604.8	629.6	654.4	679.3	704.1	713.5	723.0
105°	477.5	502.1	526.7	551.3	576.0	600.6	625.2	649.8	674.4	683.6	692.9
107.5°	449.6	474.0	498.4	522.8	547.1	571.5	595.9	620.3	644.7	653.9	663.2
110°	425.5	449.4	473.4	497.3	521.3	545.2	569.2	593.1	617.1	626.3	635.5



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	399.3	422.8	446.3	469.8	493.4	516.9	540.4	563.9	587.4	596.2	605.0
115°	374.6	397.3	419.9	442.5	465.2	487.8	510.4	533.1	555.7	564.7	573.7
117.5°	351.8	373.4	394.9	416.4	438.0	459.5	481.0	502.6	524.1	532.7	541.2
120°	325.0	345.5	365.9	386.3	406.8	427.2	447.6	468.1	488.5	497.3	506.1
122.5°	298.9	318.9	338.9	358.9	378.8	398.8	418.8	438.8	458.8	467.2	475.5
125°	269.0	288.8	308.5	328.3	348.1	367.9	387.6	407.4	427.2	435.3	443.5
127.5°	242.0	260.4	278.9	297.3	315.8	334.2	352.7	371.1	389.6	397.1	404.6
130°	212.5	229.2	245.9	262.6	279.3	296.0	312.7	329.4	346.1	353.6	361.0
132.5°	183.3	198.4	213.6	228.8	243.9	259.1	274.3	289.4	304.6	311.0	317.3
135°	154.9	169.4	183.9	198.4	213.0	227.5	242.0	256.5	271.0	276.3	281.5
137.5°	130.1	143.5	156.9	170.3	183.7	197.1	210.5	223.9	237.3	242.1	247.0
140°	106.6	118.2	129.9	141.5	153.2	164.8	176.5	188.1	199.8	204.8	209.9
142.5°	85.1	95.0	104.9	114.8	124.6	134.5	144.4	154.3	164.2	169.2	174.3
145°	65.5	73.6	81.8	89.9	98.0	106.1	114.3	122.4	130.5	135.8	141.1
147.5°	48.3	55.1	61.9	68.7	75.6	82.4	89.2	96.0	102.8	107.9	112.9
150°	35.2	40.7	46.2	51.7	57.1	62.6	68.1	73.6	79.1	83.7	88.3
152.5°	20.4	25.0	29.7	34.3	38.9	43.5	48.2	52.8	57.4	61.6	65.7
155°	11.2	14.5	17.8	21.1	24.4	27.7	31.0	34.3	37.6	41.3	45.1
157.5°	2.4	4.8	7.3	9.7	12.1	14.5	17.0	19.4	21.8	24.9	27.9
160°	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.9	10.3	12.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
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: P201387

CATALOG NUMBER: 8LBLELD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1061.4	1060.5	1059.6	1058.7	1057.9	1057.0	1056.1	1056.5	1057.0	1057.4	1057.9
5°	1043.6	1043.4	1043.2	1043.0	1042.7	1042.5	1042.3	1042.3	1042.3	1042.3	1042.3
7.5°	1027.8	1027.6	1027.3	1027.1	1026.9	1026.7	1026.5	1026.7	1026.9	1027.1	1027.3
10°	1011.3	1010.9	1010.4	1010.0	1009.6	1009.1	1008.7	1008.7	1008.7	1008.7	1008.7
12.5°	996.8	996.8	996.8	996.8	996.8	996.8	996.8	996.4	995.9	995.5	995.0
15°	986.2	986.7	987.1	987.6	988.0	988.5	988.9	988.5	988.0	987.6	987.1
17.5°	987.5	989.1	990.6	992.2	993.7	995.3	996.8	995.3	993.7	992.2	990.6
20°	1000.7	1003.4	1006.0	1008.7	1011.3	1014.0	1016.6	1013.5	1010.4	1007.4	1004.3
22.5°	1015.9	1019.0	1022.1	1025.2	1028.2	1031.3	1034.4	1030.9	1027.4	1023.8	1020.3
25°	1032.4	1035.7	1039.0	1042.3	1045.6	1048.9	1052.2	1048.2	1044.3	1040.3	1036.4
27.5°	1050.8	1055.0	1059.2	1063.4	1067.5	1071.7	1075.9	1071.3	1066.7	1062.1	1057.5
30°	1067.4	1072.4	1077.5	1082.5	1087.6	1092.6	1097.7	1092.4	1087.1	1081.9	1076.6
32.5°	1091.7	1097.6	1103.6	1109.5	1115.4	1121.4	1127.3	1120.9	1114.6	1108.2	1101.8
35°	1117.4	1124.7	1131.9	1139.2	1146.4	1153.7	1160.9	1153.4	1146.0	1138.5	1131.0
37.5°	1149.1	1157.7	1166.2	1174.8	1183.4	1191.9	1200.5	1191.9	1183.4	1174.8	1166.2
40°	1187.3	1197.4	1207.6	1217.7	1227.8	1237.9	1248.0	1238.1	1228.2	1218.3	1208.4
42.5°	1230.2	1242.1	1253.9	1265.8	1277.7	1289.5	1301.4	1290.2	1279.0	1267.8	1256.6
45°	1282.9	1296.5	1310.1	1323.7	1337.4	1351.0	1364.6	1351.2	1337.8	1324.4	1311.0
47.5°	1342.2	1357.8	1373.4	1389.0	1404.6	1420.2	1435.8	1420.4	1405.0	1389.7	1374.3
50°	1410.1	1427.9	1445.7	1463.5	1481.3	1499.1	1516.9	1499.5	1482.2	1464.8	1447.5
52.5°	1482.0	1501.3	1520.7	1540.0	1559.3	1578.7	1598.0	1579.5	1561.1	1542.6	1524.2
55°	1553.9	1574.1	1594.3	1614.5	1634.8	1655.0	1675.2	1655.9	1636.5	1617.2	1597.8
57.5°	1623.0	1643.9	1664.8	1685.7	1706.5	1727.4	1748.3	1728.3	1708.3	1688.3	1668.3
60°	1685.7	1707.0	1728.4	1749.7	1771.0	1792.3	1813.6	1793.4	1773.2	1752.9	1732.7
62.5°	1735.8	1756.7	1777.6	1798.5	1819.3	1840.2	1861.1	1841.8	1822.4	1803.1	1783.7
65°	1770.8	1790.8	1810.7	1830.7	1850.7	1870.7	1890.7	1872.2	1853.8	1835.3	1816.9
67.5°	1782.6	1801.9	1821.3	1840.6	1859.9	1879.3	1898.6	1881.2	1863.9	1846.5	1829.2
70°	1768.1	1785.9	1803.7	1821.5	1839.3	1857.1	1874.9	1859.1	1843.3	1827.4	1811.6
72.5°	1725.3	1742.0	1758.7	1775.4	1792.1	1808.8	1825.5	1811.0	1796.5	1782.0	1767.5
75°	1657.4	1672.5	1687.7	1702.8	1718.0	1733.1	1748.3	1735.1	1721.9	1708.8	1695.6
77.5°	1565.1	1579.8	1594.5	1609.2	1624.0	1638.7	1653.4	1640.7	1627.9	1615.2	1602.4
80°	1455.6	1469.5	1483.3	1497.2	1511.0	1524.9	1538.7	1526.6	1514.5	1502.4	1490.3
82.5°	1339.6	1352.4	1365.1	1377.9	1390.6	1403.4	1416.1	1404.7	1393.2	1381.8	1370.4
85°	1223.5	1235.2	1246.8	1258.5	1270.1	1281.8	1293.4	1282.4	1271.4	1260.5	1249.5
87.5°	1105.6	1117.5	1129.3	1141.2	1153.1	1164.9	1176.8	1166.2	1155.7	1145.1	1134.6
90°	1006.7	1017.9	1029.1	1040.3	1051.5	1062.7	1073.9	1063.6	1053.3	1042.9	1032.6
92.5°	929.6	939.5	949.3	959.2	969.1	979.0	988.9	979.2	969.6	959.9	950.2
95°	864.9	874.4	883.8	893.3	902.7	912.2	921.6	912.6	903.6	894.6	885.6
97.5°	808.9	818.8	828.6	838.5	848.4	858.3	868.2	859.4	850.6	841.8	833.0
100°	770.0	779.5	788.9	798.4	807.8	817.3	826.7	817.7	808.7	799.7	790.7
102.5°	732.4	741.9	751.3	760.8	770.2	779.7	789.1	780.3	771.5	762.7	753.9
105°	702.1	711.3	720.6	729.8	739.0	748.3	757.5	748.9	740.3	731.8	723.2
107.5°	672.4	681.6	690.9	700.1	709.3	718.6	727.8	719.2	710.7	702.1	693.5
110°	644.8	654.0	663.2	672.4	681.7	690.9	700.1	691.1	682.1	673.1	664.1



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	613.8	622.6	631.3	640.1	648.9	657.7	666.5	657.9	649.4	640.8	632.2
115°	582.7	591.7	600.8	609.8	618.8	627.8	636.8	628.0	619.2	610.4	601.6
117.5°	549.8	558.4	566.9	575.5	584.1	592.6	601.2	593.1	585.0	576.8	568.7
120°	514.9	523.7	532.4	541.2	550.0	558.8	567.6	559.7	551.8	543.9	536.0
122.5°	483.9	492.2	500.6	508.9	517.3	525.6	534.0	526.1	518.2	510.3	502.4
125°	451.6	459.7	467.9	476.0	484.1	492.3	500.4	492.5	484.6	476.7	468.8
127.5°	412.0	419.5	427.0	434.5	441.9	449.4	456.9	449.6	442.4	435.1	427.9
130°	368.5	376.0	383.4	390.9	398.4	405.8	413.3	406.1	398.8	391.6	384.3
132.5°	323.7	330.1	336.4	342.8	349.2	355.5	361.9	355.8	349.6	343.5	337.3
135°	286.8	292.1	297.3	302.6	307.9	313.1	318.4	313.6	308.7	303.9	299.1
137.5°	251.8	256.6	261.5	266.3	271.1	276.0	280.8	276.8	272.9	268.9	265.0
140°	214.9	220.0	225.0	230.1	235.1	240.2	245.2	241.5	237.7	234.0	230.3
142.5°	179.3	184.4	189.4	194.5	199.5	204.6	209.6	206.7	203.9	201.0	198.2
145°	146.3	151.6	156.9	162.2	167.4	172.7	178.0	175.4	172.7	170.1	167.5
147.5°	118.0	123.0	128.1	133.1	138.2	143.2	148.3	146.1	143.9	141.7	139.5
150°	92.9	97.5	102.2	106.8	111.4	116.0	120.6	118.6	116.6	114.7	112.7
152.5°	69.9	74.1	78.2	82.4	86.6	90.7	94.9	93.4	91.8	90.3	88.8
155°	48.8	52.5	56.3	60.0	63.7	67.5	71.2	70.1	69.0	67.9	66.8
157.5°	31.0	34.1	37.1	40.2	43.3	46.3	49.4	48.5	47.6	46.8	45.9
160°	15.2	17.6	20.0	22.4	24.9	27.3	29.7	29.0	28.4	27.7	27.0
162.5°	4.0	5.3	6.6	7.9	9.3	10.6	11.9	11.7	11.5	11.2	11.0
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: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1058.3	1058.8	1059.2	1059.7	1060.1	1061.6	1063.2	1064.7	1066.2	1067.8	1069.3
5°	1042.3	1042.3	1042.3	1042.3	1042.3	1044.3	1046.3	1048.2	1050.2	1052.2	1054.2
7.5°	1027.6	1027.8	1028.0	1028.2	1028.4	1030.2	1031.9	1033.7	1035.5	1037.2	1039.0
10°	1008.7	1008.7	1008.7	1008.7	1008.7	1010.7	1012.7	1014.6	1016.6	1018.6	1020.6
12.5°	994.6	994.1	993.7	993.2	992.8	995.0	997.2	999.4	1001.6	1003.8	1006.0
15°	986.7	986.2	985.8	985.3	984.9	985.8	986.7	987.5	988.4	989.3	990.2
17.5°	989.1	987.5	986.0	984.4	982.9	982.0	981.1	980.3	979.4	978.5	977.6
20°	1001.2	998.1	995.1	992.0	988.9	985.6	982.3	979.0	975.7	972.4	969.1
22.5°	1016.8	1013.3	1009.7	1006.2	1002.7	996.5	990.4	984.2	978.1	971.9	965.8
25°	1032.4	1028.5	1024.5	1020.6	1016.6	1008.9	1001.2	993.5	985.8	978.1	970.4
27.5°	1052.8	1048.2	1043.6	1039.0	1034.4	1024.9	1015.5	1006.0	996.6	987.1	977.7
30°	1071.3	1066.0	1060.8	1055.5	1050.2	1039.4	1028.7	1017.9	1007.1	996.4	985.6
32.5°	1095.5	1089.1	1082.7	1076.4	1070.0	1057.0	1044.1	1031.1	1018.1	1005.2	992.2
35°	1123.6	1116.1	1108.6	1101.2	1093.7	1078.5	1063.4	1048.2	1033.0	1017.9	1002.7
37.5°	1157.7	1149.1	1140.5	1132.0	1123.4	1105.8	1088.2	1070.6	1053.0	1035.5	1017.9
40°	1198.6	1188.7	1178.8	1168.9	1159.0	1138.3	1117.7	1097.0	1076.4	1055.7	1035.1
42.5°	1245.3	1234.1	1222.9	1211.7	1200.5	1176.3	1152.1	1128.0	1103.8	1079.6	1055.4
45°	1297.6	1284.2	1270.8	1257.4	1244.0	1216.3	1188.6	1160.9	1133.2	1105.6	1077.9
47.5°	1358.9	1343.5	1328.2	1312.8	1297.4	1265.5	1233.7	1201.8	1169.9	1138.1	1106.2
50°	1430.1	1412.8	1395.4	1378.1	1360.7	1324.0	1287.3	1250.6	1213.9	1177.2	1140.5
52.5°	1505.7	1487.3	1468.8	1450.4	1431.9	1389.7	1347.5	1305.3	1263.1	1221.0	1178.8
55°	1578.5	1559.1	1539.8	1520.4	1501.1	1454.1	1407.1	1360.0	1313.0	1266.0	1219.0
57.5°	1648.4	1628.4	1608.4	1588.4	1568.4	1517.2	1466.0	1414.8	1363.6	1312.3	1261.1
60°	1712.5	1692.3	1672.0	1651.8	1631.6	1577.5	1523.5	1469.4	1415.4	1361.3	1307.3
62.5°	1764.4	1745.0	1725.7	1706.3	1687.0	1629.9	1572.7	1515.6	1458.5	1401.3	1344.2
65°	1798.4	1780.0	1761.5	1743.1	1724.6	1665.5	1606.4	1547.3	1488.2	1429.0	1369.9
67.5°	1811.8	1794.5	1777.1	1759.8	1742.4	1682.6	1622.8	1563.1	1503.3	1443.5	1383.7
70°	1795.8	1780.0	1764.1	1748.3	1732.5	1673.8	1615.1	1556.5	1497.8	1439.1	1380.4
72.5°	1752.9	1738.4	1723.9	1709.4	1694.9	1638.2	1581.5	1524.8	1468.1	1411.5	1354.8
75°	1682.4	1669.2	1656.1	1642.9	1629.7	1576.1	1522.5	1468.8	1415.2	1361.6	1308.0
77.5°	1589.7	1576.9	1564.2	1551.4	1538.7	1489.0	1439.4	1389.7	1340.0	1290.4	1240.7
80°	1478.3	1466.2	1454.1	1442.0	1429.9	1384.6	1339.4	1294.1	1248.8	1203.6	1158.3
82.5°	1358.9	1347.5	1336.1	1324.6	1313.2	1272.1	1231.0	1189.9	1148.8	1107.8	1066.7
85°	1238.5	1227.5	1216.6	1205.6	1194.6	1157.2	1119.9	1082.5	1045.1	1007.8	970.4
87.5°	1124.0	1113.5	1102.9	1092.4	1081.8	1048.2	1014.6	980.9	947.3	913.7	880.1
90°	1022.3	1012.0	1001.6	991.3	981.0	950.5	919.9	889.4	858.8	828.3	797.7
92.5°	940.6	930.9	921.2	911.6	901.9	873.8	845.6	817.5	789.4	761.2	733.1
95°	876.5	867.5	858.5	849.5	840.5	814.6	788.7	762.7	736.8	710.9	685.0
97.5°	824.3	815.5	806.7	797.9	789.1	764.1	739.0	714.0	688.9	663.9	638.8
100°	781.6	772.6	763.6	754.6	745.6	721.2	696.8	672.4	648.0	623.7	599.3
102.5°	745.2	736.4	727.6	718.8	710.0	685.4	660.8	636.2	611.6	586.9	562.3
105°	714.6	706.0	697.5	688.9	680.3	655.9	631.5	607.1	582.7	558.4	534.0
107.5°	685.0	676.4	667.8	659.3	650.7	626.7	602.8	578.8	554.9	530.9	507.0
110°	655.0	646.0	637.0	628.0	619.0	595.9	572.9	549.8	526.7	503.7	480.6



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	623.7	615.1	606.5	598.0	589.4	566.8	544.1	521.5	498.9	476.2	453.6
115°	592.9	584.1	575.3	566.5	557.7	536.2	514.6	493.1	471.6	450.0	428.5
117.5°	560.6	552.5	544.3	536.2	528.1	507.2	486.3	465.5	444.6	423.7	402.8
120°	528.0	520.1	512.2	504.3	496.4	476.4	456.4	436.4	416.4	396.4	376.4
122.5°	494.4	486.5	478.6	470.7	462.8	443.5	424.1	404.8	385.5	366.1	346.8
125°	460.8	452.9	445.0	437.1	429.2	410.3	391.4	372.5	353.6	334.7	315.8
127.5°	420.6	413.4	406.1	398.9	391.6	374.2	356.9	339.5	322.2	304.8	287.5
130°	377.1	369.8	362.6	355.3	348.1	332.9	317.8	302.6	287.4	272.3	257.1
132.5°	331.2	325.0	318.9	312.7	306.6	293.4	280.2	267.0	253.8	240.7	227.5
135°	294.2	289.4	284.6	279.7	274.9	262.8	250.7	238.6	226.5	214.5	202.4
137.5°	261.0	257.1	253.1	249.2	245.2	234.0	222.8	211.6	200.4	189.2	178.0
140°	226.5	222.8	219.1	215.3	211.6	201.7	191.8	181.9	172.0	162.2	152.3
142.5°	195.3	192.5	189.6	186.8	183.9	174.9	165.9	156.9	147.9	138.8	129.8
145°	164.8	162.2	159.6	156.9	154.3	146.6	138.9	131.2	123.5	115.8	108.1
147.5°	137.4	135.2	133.0	130.8	128.6	122.0	115.4	108.8	102.2	95.6	89.0
150°	110.7	108.7	106.8	104.8	102.8	97.3	91.8	86.3	80.8	75.4	69.9
152.5°	87.2	85.7	84.2	82.6	81.1	76.3	71.4	66.6	61.8	56.9	52.1
155°	65.7	64.6	63.5	62.4	61.3	57.1	52.9	48.8	44.6	40.4	36.2
157.5°	45.0	44.1	43.3	42.4	41.5	38.2	34.9	31.6	28.3	25.1	21.8
160°	26.4	25.7	25.0	24.4	23.7	21.5	19.3	17.1	14.9	12.8	10.6
162.5°	10.8	10.6	10.3	10.1	9.9	8.8	7.7	6.6	5.5	4.4	3.3
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: P201387

CATALOG NUMBER: 8LBLELD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1070.8	1072.4	1073.9	1074.1	1074.3	1074.6	1074.8	1075.0	1075.2	1075.5	1075.7
5°	1056.1	1058.1	1060.1	1060.5	1061.0	1061.4	1061.8	1062.3	1062.7	1063.1	1063.6
7.5°	1040.8	1042.5	1044.3	1045.2	1046.1	1046.9	1047.8	1048.7	1049.6	1050.4	1051.3
10°	1022.5	1024.5	1026.5	1027.4	1028.3	1029.1	1030.0	1030.9	1031.8	1032.6	1033.5
12.5°	1008.2	1010.4	1012.6	1012.8	1013.0	1013.3	1013.5	1013.7	1013.9	1014.2	1014.4
15°	991.0	991.9	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8
17.5°	976.8	975.9	975.0	974.6	974.1	973.7	973.3	972.8	972.4	972.0	971.5
20°	965.8	962.5	959.2	957.7	956.1	954.6	953.1	951.5	950.0	948.5	946.9
22.5°	959.6	953.5	947.3	944.0	940.7	937.4	934.1	930.9	927.6	924.3	921.0
25°	962.7	955.0	947.3	940.7	934.1	927.5	920.9	914.4	907.8	901.2	894.6
27.5°	968.2	958.8	949.3	939.4	929.5	919.6	909.7	899.9	890.0	880.1	870.2
30°	974.8	964.1	953.3	939.5	925.6	911.8	897.9	884.1	870.2	856.4	842.5
32.5°	979.2	966.3	953.3	936.2	919.0	901.9	884.7	867.6	850.4	833.3	816.1
35°	987.5	972.4	957.2	936.8	916.3	895.9	875.5	855.0	834.6	814.2	793.7
37.5°	1000.3	982.7	965.1	941.2	917.2	893.3	869.3	845.4	821.4	797.5	773.5
40°	1014.4	993.8	973.1	946.1	919.0	892.0	865.0	837.9	810.9	783.9	756.8
42.5°	1031.3	1007.1	982.9	952.8	922.7	892.6	862.5	832.4	802.3	772.2	742.1
45°	1050.2	1022.5	994.8	961.4	928.0	894.6	861.2	827.8	794.4	761.0	727.6
47.5°	1074.3	1042.5	1010.6	973.7	936.8	899.9	863.0	826.0	789.1	752.2	715.3
50°	1103.8	1067.1	1030.4	989.3	948.2	907.1	866.0	825.0	783.9	742.8	701.7
52.5°	1136.6	1094.4	1052.2	1006.9	961.6	916.4	871.1	825.8	780.5	735.3	690.0
55°	1171.9	1124.9	1077.9	1028.0	978.1	928.2	878.3	828.5	778.6	728.7	678.8
57.5°	1209.9	1158.7	1107.5	1052.8	998.1	943.4	888.7	833.9	779.2	724.5	669.8
60°	1253.2	1199.2	1145.1	1084.7	1024.2	963.8	903.4	842.9	782.5	722.1	661.6
62.5°	1287.1	1229.9	1172.8	1107.8	1042.7	977.7	912.6	847.6	782.5	717.5	652.4
65°	1310.8	1251.7	1192.6	1123.6	1054.6	985.6	916.6	847.6	778.6	709.6	640.6
67.5°	1324.0	1264.2	1204.4	1132.1	1059.8	987.5	915.2	843.0	770.7	698.4	626.1
70°	1321.8	1263.1	1204.4	1129.9	1055.4	980.9	906.4	832.0	757.5	683.0	608.5
72.5°	1298.1	1241.4	1184.7	1110.2	1035.7	961.2	886.7	812.2	737.7	663.2	588.7
75°	1254.3	1200.7	1147.1	1073.7	1000.3	926.9	853.5	780.1	706.7	633.3	559.9
77.5°	1191.0	1141.4	1091.7	1020.7	949.7	878.8	807.8	736.8	665.8	594.9	523.9
80°	1113.0	1067.8	1022.5	955.7	888.9	822.1	755.3	688.5	621.7	554.9	488.1
82.5°	1025.6	984.5	943.4	881.6	819.9	758.1	696.4	634.6	572.9	511.1	449.4
85°	933.0	895.7	858.3	802.5	746.7	690.9	635.1	579.2	523.4	467.6	411.8
87.5°	846.4	812.8	779.2	728.4	677.7	626.9	576.2	525.4	474.7	423.9	373.2
90°	767.2	736.6	706.1	659.9	613.8	567.6	521.5	475.3	429.2	383.0	336.9
92.5°	705.0	676.8	648.7	606.5	564.3	522.1	479.9	437.8	395.6	353.4	311.2
95°	659.0	633.1	607.2	567.4	527.6	487.9	448.1	408.3	368.5	328.8	289.0
97.5°	613.8	588.7	563.7	526.8	489.9	452.9	416.0	379.1	342.2	305.2	268.3
100°	574.9	550.5	526.1	491.4	456.7	421.9	387.2	352.5	317.8	283.0	248.3
102.5°	537.7	513.1	488.5	456.0	423.5	390.9	358.4	325.9	293.4	260.8	228.3
105°	509.6	485.2	460.8	429.6	398.4	367.2	336.0	304.8	273.6	242.4	211.2
107.5°	483.0	459.1	435.1	405.0	374.9	344.8	314.7	284.6	254.5	224.4	194.3
110°	457.5	434.5	411.4	382.2	352.9	323.7	294.5	265.2	236.0	206.8	177.5



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	431.0	408.3	385.7	357.8	329.9	302.0	274.1	246.1	218.2	190.3	162.4
115°	407.0	385.4	363.9	337.1	310.3	283.5	256.7	229.8	203.0	176.2	149.4
117.5°	382.0	361.1	340.2	314.7	289.2	263.7	238.2	212.8	187.3	161.8	136.3
120°	356.4	336.4	316.4	292.2	268.1	243.9	219.7	195.6	171.4	147.2	123.1
122.5°	327.5	308.1	288.8	266.6	244.4	222.2	200.0	177.8	155.6	133.4	111.2
125°	296.9	278.0	259.1	238.9	218.7	198.4	178.2	158.0	137.8	117.5	97.3
127.5°	270.1	252.8	235.4	216.7	198.0	179.3	160.6	142.0	123.3	104.6	85.9
130°	241.9	226.8	211.6	194.5	177.3	160.2	143.1	125.9	108.8	91.7	74.5
132.5°	214.3	201.1	187.9	172.3	156.7	141.1	125.5	109.9	94.3	78.7	63.1
135°	190.3	178.2	166.1	151.8	137.5	123.3	109.0	94.7	80.4	66.2	51.9
137.5°	166.8	155.6	144.4	131.4	118.5	105.5	92.5	79.6	66.6	53.6	40.7
140°	142.4	132.5	122.6	111.2	99.8	88.3	76.9	65.5	54.1	42.6	31.2
142.5°	120.8	111.8	102.8	92.9	83.0	73.1	63.2	53.4	43.5	33.6	23.7
145°	100.4	92.7	85.0	76.4	67.9	59.3	50.7	42.2	33.6	25.0	16.5
147.5°	82.4	75.8	69.2	62.0	54.7	47.5	40.2	33.0	25.7	18.5	11.2
150°	64.4	58.9	53.4	47.7	42.0	36.3	30.6	24.8	19.1	13.4	7.7
152.5°	47.3	42.4	37.6	33.4	29.2	25.1	20.9	16.7	12.5	8.4	4.2
155°	32.1	27.9	23.7	21.1	18.4	15.8	13.2	10.5	7.9	5.3	2.6
157.5°	18.5	15.2	11.9	10.6	9.3	7.9	6.6	5.3	4.0	2.6	1.3
160°	8.4	6.2	4.0	3.6	3.1	2.7	2.2	1.8	1.3	0.9	0.4
162.5°	2.2	1.1	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: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1075.9	1078.8	1081.6	1084.5	1087.3	1090.2	1093.0	1095.9	1098.7	1101.6	1100.9
5°	1064.0	1067.5	1071.0	1074.6	1078.1	1081.6	1085.1	1088.7	1092.2	1095.7	1095.9
7.5°	1052.2	1056.2	1060.1	1064.1	1068.0	1072.0	1075.9	1079.9	1083.8	1087.8	1089.1
10°	1034.4	1038.8	1043.2	1047.6	1052.0	1056.3	1060.7	1065.1	1069.5	1073.9	1076.3
12.5°	1014.6	1019.4	1024.3	1029.1	1033.9	1038.8	1043.6	1048.4	1053.3	1058.1	1061.6
15°	992.8	997.9	1002.9	1008.0	1013.0	1018.1	1023.1	1028.2	1033.2	1038.3	1042.9
17.5°	971.1	976.2	981.2	986.3	991.3	996.4	1001.4	1006.5	1011.5	1016.6	1022.3
20°	945.4	950.2	955.1	959.9	964.7	969.6	974.4	979.2	984.1	988.9	995.9
22.5°	917.7	922.3	926.9	931.5	936.1	940.8	945.4	950.0	954.6	959.2	967.8
25°	888.0	892.2	896.4	900.5	904.7	908.9	913.1	917.2	921.4	925.6	935.5
27.5°	860.3	863.8	867.3	870.9	874.4	877.9	881.4	885.0	888.5	892.0	903.2
30°	828.7	831.6	834.4	837.3	840.1	843.0	845.8	848.7	851.5	854.4	867.1
32.5°	799.0	800.5	802.1	803.6	805.2	806.7	808.3	809.8	811.4	812.9	827.4
35°	773.3	773.1	772.9	772.6	772.4	772.2	772.0	771.7	771.5	771.3	787.8
37.5°	749.6	747.4	745.2	743.0	740.8	738.6	736.4	734.2	732.0	729.8	748.5
40°	729.8	724.7	719.7	714.6	709.6	704.5	699.5	694.4	689.4	684.3	705.8
42.5°	712.0	704.1	696.2	688.3	680.4	672.4	664.5	656.6	648.7	640.8	665.0
45°	694.2	683.2	672.2	661.2	650.2	639.3	628.3	617.3	606.3	595.3	622.3
47.5°	678.4	664.3	650.3	636.2	622.1	608.1	594.0	579.9	565.9	551.8	581.7
50°	660.6	643.7	626.8	609.8	592.9	576.0	559.1	542.1	525.2	508.3	541.3
52.5°	644.7	624.3	603.8	583.4	563.0	542.5	522.1	501.7	481.2	460.8	497.3
55°	628.9	606.0	583.2	560.3	537.5	514.6	491.8	468.9	446.1	423.2	462.5
57.5°	615.1	589.4	563.7	538.0	512.3	486.5	460.8	435.1	409.4	383.7	426.3
60°	601.2	572.6	544.1	515.5	486.9	458.4	429.8	401.2	372.7	344.1	390.0
62.5°	587.4	556.2	525.0	493.8	462.6	431.4	400.2	369.0	337.8	306.6	355.8
65°	571.6	538.0	504.4	470.7	437.1	403.5	369.9	336.2	302.6	269.0	321.1
67.5°	553.8	518.2	482.6	447.0	411.4	375.8	340.2	304.6	269.0	233.4	288.1
70°	534.0	496.9	459.7	422.6	385.5	348.3	311.2	274.1	236.9	199.8	256.3
72.5°	514.2	475.5	436.8	398.2	359.5	320.8	282.1	243.5	204.8	166.1	223.9
75°	486.5	447.6	408.7	369.8	330.9	292.1	253.2	214.3	175.4	136.5	194.5
77.5°	452.9	414.4	376.0	337.5	299.1	260.6	222.2	183.7	145.3	106.8	164.6
80°	421.3	383.5	345.7	307.9	270.1	232.3	194.5	156.7	118.9	81.1	137.8
82.5°	387.6	350.7	313.8	276.9	240.0	203.0	166.1	129.2	92.3	55.4	110.6
85°	356.0	320.2	284.4	248.5	212.7	176.9	141.1	105.2	69.4	33.6	86.8
87.5°	322.4	288.3	254.3	220.2	186.1	152.1	118.0	83.9	49.9	15.8	65.7
90°	290.7	258.6	226.5	194.5	162.4	130.3	98.2	66.2	34.1	2.0	49.0
92.5°	269.0	239.1	209.2	179.3	149.4	119.6	89.7	59.8	29.9	0.0	44.2
95°	249.2	221.5	193.8	166.1	138.4	110.8	83.1	55.4	27.7	0.0	40.7
97.5°	231.4	205.7	180.0	154.3	128.6	102.8	77.1	51.4	25.7	0.0	37.6
100°	213.6	189.9	166.1	142.4	118.7	94.9	71.2	47.5	23.7	0.0	34.5
102.5°	195.8	174.0	152.3	130.5	108.8	87.0	65.3	43.5	21.8	0.0	31.9
105°	180.0	160.0	140.0	120.0	100.0	80.0	60.0	40.0	20.0	0.0	29.2
107.5°	164.2	146.2	128.2	110.1	92.1	74.1	56.1	38.0	20.0	2.0	28.8
110°	148.3	132.0	115.8	99.5	83.3	67.0	50.8	34.5	18.3	2.0	26.2



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	134.5	119.8	105.1	90.3	75.6	60.9	46.2	31.4	16.7	2.0	24.0
115°	122.6	109.2	95.8	82.4	69.0	55.6	42.2	28.8	15.4	2.0	21.8
117.5°	110.8	98.7	86.6	74.5	62.4	50.4	38.3	26.2	14.1	2.0	19.8
120°	98.9	88.1	77.4	66.6	55.8	45.1	34.3	23.5	12.8	2.0	18.3
122.5°	89.0	79.3	69.7	60.0	50.3	40.7	31.0	21.3	11.7	2.0	16.7
125°	77.1	68.8	60.4	52.1	43.7	35.4	27.0	18.7	10.3	2.0	15.2
127.5°	67.2	60.0	52.7	45.5	38.2	31.0	23.7	16.5	9.2	2.0	13.4
130°	57.4	51.2	45.1	38.9	32.8	26.6	20.5	14.3	8.2	2.0	11.9
132.5°	47.5	42.4	37.4	32.3	27.3	22.2	17.2	12.1	7.1	2.0	10.6
135°	37.6	33.6	29.7	25.7	21.8	17.8	13.9	9.9	6.0	2.0	9.2
137.5°	27.7	24.8	22.0	19.1	16.3	13.4	10.6	7.7	4.9	2.0	7.9
140°	19.8	17.8	15.8	13.9	11.9	9.9	7.9	6.0	4.0	2.0	6.6
142.5°	13.8	12.5	11.2	9.9	8.6	7.2	5.9	4.6	3.3	2.0	5.5
145°	7.9	7.2	6.6	5.9	5.3	4.6	4.0	3.3	2.7	2.0	4.6
147.5°	4.0	3.8	3.6	3.3	3.1	2.9	2.7	2.4	2.2	2.0	4.2
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0
152.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	3.8
155°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	3.5
157.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	3.1
160°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	3.1
162.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.9
165°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1100.3	1099.6	1099.0	1098.3	1097.7	1097.0	1096.4	1095.7	1096.6	1097.5	1098.3
5°	1096.1	1096.4	1096.6	1096.8	1097.0	1097.3	1097.5	1097.7	1099.5	1101.2	1103.0
7.5°	1090.4	1091.7	1093.0	1094.4	1095.7	1097.0	1098.3	1099.6	1102.2	1104.9	1107.5
10°	1078.7	1081.2	1083.6	1086.0	1088.4	1090.9	1093.3	1095.7	1099.7	1103.6	1107.6
12.5°	1065.1	1068.6	1072.1	1075.7	1079.2	1082.7	1086.2	1089.7	1094.8	1099.8	1104.9
15°	1047.5	1052.2	1056.8	1061.4	1066.0	1070.7	1075.3	1079.9	1086.5	1093.1	1099.7
17.5°	1028.0	1033.7	1039.4	1045.2	1050.9	1056.6	1062.3	1068.0	1076.3	1084.7	1093.0
20°	1003.0	1010.0	1017.0	1024.1	1031.1	1038.1	1045.2	1052.2	1062.5	1072.8	1083.2
22.5°	976.3	984.9	993.5	1002.0	1010.6	1019.2	1027.7	1036.3	1049.3	1062.2	1075.2
25°	945.4	955.3	965.2	975.0	984.9	994.8	1004.7	1014.6	1030.9	1047.1	1063.4
27.5°	914.4	925.6	936.8	948.0	959.2	970.4	981.6	992.8	1012.4	1031.9	1051.5
30°	879.9	892.6	905.4	918.1	930.9	943.6	956.4	969.1	992.0	1014.8	1037.7
32.5°	841.9	856.4	870.9	885.4	899.9	914.4	928.9	943.4	969.8	996.1	1022.5
35°	804.3	820.8	837.3	853.7	870.2	886.7	903.2	919.7	949.4	979.0	1008.7
37.5°	767.2	785.8	804.5	823.2	841.9	860.5	879.2	897.9	931.1	964.3	997.4
40°	727.4	748.9	770.4	792.0	813.5	835.0	856.6	878.1	914.8	951.5	988.2
42.5°	689.1	713.3	737.5	761.6	785.8	810.0	834.1	858.3	899.0	939.6	980.3
45°	649.4	676.4	703.4	730.5	757.5	784.5	811.6	838.6	883.9	929.1	974.4
47.5°	611.6	641.5	671.4	701.2	731.1	761.0	790.9	820.8	871.3	921.9	972.4
50°	574.2	607.2	640.1	673.1	706.0	739.0	771.9	804.9	860.9	917.0	973.0
52.5°	533.8	570.2	606.7	643.2	679.7	716.1	752.6	789.1	851.5	913.9	976.3
55°	501.9	541.2	580.6	619.9	659.3	698.6	738.0	777.3	846.7	916.2	985.6
57.5°	469.0	511.6	554.2	596.9	639.5	682.1	724.8	767.4	844.5	921.7	998.8
60°	436.0	481.9	527.8	573.8	619.7	665.6	711.6	757.5	843.2	928.9	1014.6
62.5°	405.0	454.3	503.5	552.7	601.9	651.2	700.4	749.6	844.1	938.6	1033.1
65°	373.2	425.2	477.3	529.4	581.5	633.5	685.6	737.7	840.3	942.9	1045.6
67.5°	342.8	397.5	452.2	507.0	561.7	616.4	671.1	725.8	835.2	944.7	1054.1
70°	312.7	369.2	425.7	482.1	538.6	595.1	651.5	708.0	822.7	937.4	1052.1
72.5°	281.7	339.5	397.3	455.1	512.9	570.7	628.5	686.3	803.2	920.1	1037.0
75°	252.5	310.5	368.5	426.6	484.6	542.6	600.6	658.6	774.6	890.6	1006.7
77.5°	222.4	280.2	338.0	395.7	453.5	511.3	569.1	626.9	739.0	851.1	963.1
80°	194.5	251.2	307.9	364.5	421.2	477.9	534.6	591.3	696.3	801.4	906.4
82.5°	165.7	220.9	276.0	331.2	386.3	441.5	496.6	551.8	648.7	745.6	842.5
85°	140.0	193.1	246.3	299.5	352.7	405.8	459.0	512.2	600.1	688.0	775.9
87.5°	115.6	165.5	215.4	265.2	315.1	365.0	414.9	464.8	544.1	623.4	702.8
90°	96.0	143.1	190.1	237.1	284.1	331.2	378.2	425.2	496.4	567.6	638.8
92.5°	88.3	132.5	176.7	220.8	265.0	309.2	353.3	397.5	461.7	525.8	590.0
95°	81.3	122.0	162.6	203.3	243.9	284.6	325.2	365.9	424.4	482.8	541.3
97.5°	75.2	112.7	150.3	187.9	225.5	263.0	300.6	338.2	392.3	446.3	500.4
100°	69.0	103.5	138.0	172.5	207.0	241.5	276.0	310.5	361.3	412.0	462.8
102.5°	63.7	95.6	127.5	159.3	191.2	223.1	254.9	286.8	334.9	383.0	431.2
105°	58.4	87.7	116.9	146.1	175.3	204.6	233.8	263.0	308.9	354.9	400.8
107.5°	55.6	82.4	109.2	136.1	162.9	189.7	216.5	243.3	287.0	330.7	374.5
110°	50.3	74.5	98.7	122.8	147.0	171.2	195.3	219.5	261.9	304.3	346.7



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	46.0	67.9	89.9	111.9	133.9	155.8	177.8	199.8	240.2	280.7	321.1
115°	41.6	61.3	81.1	100.9	120.7	140.4	160.2	180.0	218.7	257.4	296.0
117.5°	37.6	55.4	73.2	91.0	108.8	126.6	144.4	162.2	198.2	234.3	270.3
120°	34.5	50.8	67.0	83.3	99.5	115.8	132.0	148.3	182.1	216.0	249.8
122.5°	31.4	46.2	60.9	75.6	90.3	105.1	119.8	134.5	165.5	196.5	227.4
125°	28.4	41.5	54.7	67.9	81.1	94.2	107.4	120.6	149.0	177.3	205.7
127.5°	24.8	36.3	47.7	59.1	70.5	82.0	93.4	104.8	130.5	156.2	181.9
130°	21.8	31.7	41.6	51.4	61.3	71.2	81.1	91.0	113.0	135.0	156.9
132.5°	19.1	27.7	36.3	44.8	53.4	62.0	70.5	79.1	97.6	116.0	134.5
135°	16.5	23.7	31.0	38.2	45.5	52.7	60.0	67.2	83.2	99.3	115.3
137.5°	13.9	19.8	25.7	31.7	37.6	43.5	49.5	55.4	69.5	83.5	97.6
140°	11.2	15.8	20.4	25.1	29.7	34.3	38.9	43.5	55.8	68.1	80.4
142.5°	9.0	12.5	16.0	19.6	23.1	26.6	30.1	33.6	44.2	54.7	65.3
145°	7.3	9.9	12.5	15.2	17.8	20.4	23.1	25.7	34.7	43.7	52.7
147.5°	6.4	8.6	10.8	13.0	15.2	17.4	19.6	21.8	29.0	36.3	43.5
150°	6.0	7.9	9.9	11.9	13.9	15.8	17.8	19.8	25.5	31.2	36.9
152.5°	5.5	7.3	9.0	10.8	12.5	14.3	16.0	17.8	22.0	26.2	30.3
155°	5.1	6.6	8.1	9.7	11.2	12.7	14.3	15.8	18.7	21.5	24.4
157.5°	4.2	5.3	6.4	7.5	8.6	9.7	10.8	11.9	13.7	15.4	17.2
160°	4.2	5.3	6.4	7.5	8.6	9.7	10.8	11.9	12.8	13.7	14.5
162.5°	5.8	6.6	7.5	8.4	9.3	10.1	11.0	11.9	12.1	12.3	12.5
165°	5.3	6.0	6.6	7.3	7.9	8.6	9.2	9.9	10.1	10.3	10.6
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: P201387

CATALOG NUMBER: 8LBLELD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1099.2	1100.1	1101.0	1101.8	1102.7	1103.6	1103.4	1103.2	1102.9	1102.7	1102.5
5°	1104.7	1106.5	1108.2	1110.0	1111.7	1113.5	1114.2	1114.8	1115.5	1116.1	1116.8
7.5°	1110.2	1112.8	1115.5	1118.1	1120.8	1123.4	1125.2	1126.9	1128.7	1130.4	1132.2
10°	1111.5	1115.5	1119.4	1123.4	1127.3	1131.3	1133.9	1136.6	1139.2	1141.8	1144.5
12.5°	1109.9	1115.0	1120.0	1125.1	1130.1	1135.2	1139.2	1143.1	1147.1	1151.0	1155.0
15°	1106.3	1112.8	1119.4	1126.0	1132.6	1139.2	1144.5	1149.7	1155.0	1160.3	1165.5
17.5°	1101.4	1109.7	1118.1	1126.4	1134.8	1143.1	1150.6	1158.1	1165.5	1173.0	1180.5
20°	1093.5	1103.8	1114.1	1124.5	1134.8	1145.1	1155.0	1164.9	1174.8	1184.7	1194.5
22.5°	1088.2	1101.1	1114.1	1127.1	1140.0	1153.0	1164.6	1176.3	1187.9	1199.6	1211.2
25°	1079.6	1095.9	1112.1	1128.4	1144.6	1160.9	1174.1	1187.3	1200.5	1213.7	1226.8
27.5°	1071.0	1090.6	1110.1	1129.7	1149.2	1168.8	1183.5	1198.3	1213.0	1227.7	1242.5
30°	1060.5	1083.4	1106.2	1129.1	1151.9	1174.8	1191.5	1208.2	1224.9	1241.6	1258.3
32.5°	1048.9	1075.2	1101.6	1128.0	1154.3	1180.7	1199.8	1218.9	1238.1	1257.2	1276.3
35°	1038.3	1068.0	1097.6	1127.3	1156.9	1186.6	1208.8	1231.0	1253.2	1275.4	1297.6
37.5°	1030.6	1063.8	1097.0	1130.1	1163.3	1196.5	1222.0	1247.5	1273.0	1298.5	1324.0
40°	1024.9	1061.6	1098.3	1135.0	1171.7	1208.4	1238.1	1267.7	1297.4	1327.1	1356.7
42.5°	1020.9	1061.6	1102.2	1142.9	1183.5	1224.2	1258.7	1293.2	1327.7	1362.2	1396.7
45°	1019.7	1064.9	1110.2	1155.5	1200.7	1246.0	1286.7	1327.3	1368.0	1408.6	1449.3
47.5°	1022.9	1073.5	1124.0	1174.5	1225.1	1275.6	1322.4	1369.2	1416.0	1462.8	1509.7
50°	1029.1	1085.1	1141.2	1197.2	1253.3	1309.3	1364.0	1418.7	1473.4	1528.1	1582.9
52.5°	1038.7	1101.2	1163.6	1226.0	1288.4	1350.8	1412.3	1473.9	1535.4	1596.9	1658.5
55°	1055.0	1124.5	1193.9	1263.3	1332.8	1402.2	1473.2	1544.2	1615.1	1686.1	1757.1
57.5°	1075.9	1153.1	1230.2	1307.3	1384.5	1461.6	1540.3	1618.9	1697.6	1776.3	1854.9
60°	1100.3	1186.0	1271.7	1357.4	1443.1	1528.8	1615.2	1701.5	1787.9	1874.3	1960.6
62.5°	1127.6	1222.0	1316.5	1411.0	1505.5	1600.0	1691.6	1783.3	1874.9	1966.5	2058.2
65°	1148.2	1250.8	1353.4	1456.1	1558.7	1661.3	1757.6	1853.8	1950.1	2046.3	2142.6
67.5°	1163.6	1273.0	1382.5	1491.9	1601.4	1710.8	1809.0	1907.2	2005.5	2103.7	2201.9
70°	1166.8	1281.6	1396.3	1511.0	1625.7	1740.4	1838.2	1936.0	2033.8	2131.6	2229.3
72.5°	1153.9	1270.8	1387.7	1504.6	1621.5	1738.4	1833.6	1928.7	2023.9	2119.0	2214.2
75°	1122.7	1238.7	1354.7	1470.8	1586.8	1702.8	1792.9	1883.0	1973.1	2063.2	2153.3
77.5°	1075.2	1187.3	1299.4	1411.4	1523.5	1635.6	1720.2	1804.8	1889.4	1974.0	2058.6
80°	1011.5	1116.5	1221.6	1326.6	1431.7	1536.7	1613.6	1690.5	1767.4	1844.3	1921.3
82.5°	939.4	1036.4	1133.3	1230.2	1327.1	1424.0	1492.3	1560.7	1629.0	1697.4	1765.7
85°	863.8	951.7	1039.6	1127.5	1215.4	1303.3	1363.3	1423.3	1483.3	1543.3	1603.3
87.5°	782.1	861.4	940.7	1020.1	1099.4	1178.7	1231.0	1283.3	1335.6	1387.9	1440.2
90°	710.0	781.2	852.4	923.6	994.8	1066.0	1112.1	1158.3	1204.4	1250.6	1296.7
92.5°	654.2	718.3	782.5	846.7	910.8	975.0	1015.9	1056.8	1097.6	1138.5	1179.4
95°	599.7	658.2	716.6	775.1	833.5	892.0	930.0	968.0	1006.0	1044.0	1082.1
97.5°	554.4	608.5	662.5	716.6	770.6	824.7	860.3	895.9	931.5	967.1	1002.7
100°	513.6	564.3	615.1	665.9	716.6	767.4	801.2	835.1	868.9	902.7	936.6
102.5°	479.3	527.4	575.5	623.7	671.8	719.9	752.9	785.8	818.8	851.8	884.7
105°	446.7	492.7	538.6	584.5	630.5	676.4	708.9	741.4	774.0	806.5	839.0
107.5°	418.2	461.9	505.6	549.4	593.1	636.8	669.1	701.4	733.7	766.0	798.4
110°	389.1	431.6	474.0	516.4	558.8	601.2	633.3	665.4	697.5	729.6	761.6



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	361.5	402.0	442.4	482.8	523.3	563.7	595.8	627.9	659.9	692.0	724.1
115°	334.7	373.4	412.1	450.7	489.4	528.1	560.0	591.8	623.7	655.5	687.4
117.5°	306.3	342.4	378.4	414.4	450.5	486.5	518.6	550.7	582.8	614.9	646.9
120°	283.7	317.5	351.4	385.2	419.1	452.9	483.7	514.4	545.2	576.0	606.7
122.5°	258.4	289.4	320.4	351.3	382.3	413.3	443.0	472.6	502.3	532.0	561.6
125°	234.0	262.4	290.7	319.1	347.4	375.8	403.7	431.6	459.5	487.4	515.3
127.5°	207.6	233.4	259.1	284.8	310.5	336.2	363.2	390.3	417.3	444.3	471.4
130°	178.9	200.9	222.9	244.8	266.8	288.8	314.3	339.8	365.3	390.8	416.2
132.5°	152.9	171.4	189.8	208.3	226.7	245.2	269.2	293.1	317.1	341.0	365.0
135°	131.4	147.4	163.5	179.5	195.6	211.6	233.6	255.6	277.5	299.5	321.5
137.5°	111.7	125.7	139.8	153.9	167.9	182.0	200.5	218.9	237.4	255.8	274.3
140°	92.7	105.1	117.4	129.7	142.0	154.3	169.5	184.6	199.8	214.9	230.1
142.5°	75.8	86.4	96.9	107.5	118.0	128.6	141.3	154.1	166.8	179.6	192.3
145°	61.7	70.8	79.8	88.8	97.8	106.8	117.6	128.3	139.1	149.9	160.6
147.5°	50.8	58.0	65.3	72.5	79.8	87.0	95.8	104.6	113.4	122.2	130.9
150°	42.6	48.4	54.1	59.8	65.5	71.2	78.2	85.3	92.3	99.3	106.4
152.5°	34.5	38.7	42.9	47.0	51.2	55.4	60.9	66.4	71.9	77.4	82.8
155°	27.2	30.1	32.9	35.8	38.6	41.5	45.9	50.3	54.7	59.1	63.5
157.5°	18.9	20.7	22.4	24.2	25.9	27.7	31.2	34.7	38.2	41.7	45.3
160°	15.4	16.3	17.2	18.0	18.9	19.8	22.2	24.6	27.0	29.4	31.9
162.5°	12.7	13.0	13.2	13.4	13.6	13.8	15.1	16.4	17.8	19.1	20.4
165°	10.8	11.0	11.2	11.5	11.7	11.9	12.1	12.3	12.5	12.7	13.0
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: P201387

CATALOG NUMBER: 8LBLELD4-9-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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1102.3	1102.0	1101.8	1101.6	1100.7	1099.8	1099.0	1098.1	1097.2	1096.3	1095.5
5°	1117.4	1118.1	1118.7	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4
7.5°	1133.9	1135.7	1137.4	1139.2	1139.4	1139.6	1139.9	1140.1	1140.3	1140.5	1140.8
10°	1147.1	1149.7	1152.4	1155.0	1155.4	1155.9	1156.3	1156.8	1157.2	1157.7	1158.1
12.5°	1158.9	1162.9	1166.8	1170.8	1171.7	1172.6	1173.4	1174.3	1175.2	1176.1	1176.9
15°	1170.8	1176.1	1181.3	1186.6	1188.6	1190.6	1192.5	1194.5	1196.5	1198.5	1200.4
17.5°	1188.0	1195.4	1202.9	1210.4	1213.0	1215.7	1218.3	1220.9	1223.6	1226.2	1228.8
20°	1204.4	1214.3	1224.2	1234.1	1237.4	1240.7	1244.0	1247.3	1250.6	1253.9	1257.2
22.5°	1222.9	1234.5	1246.2	1257.8	1261.5	1265.3	1269.0	1272.8	1276.5	1280.3	1284.0
25°	1240.0	1253.2	1266.4	1279.6	1283.8	1288.0	1292.1	1296.3	1300.5	1304.7	1308.8
27.5°	1257.2	1271.9	1286.7	1301.4	1306.2	1311.1	1315.9	1320.7	1325.6	1330.4	1335.2
30°	1275.0	1291.7	1308.4	1325.1	1330.8	1336.5	1342.2	1347.9	1353.7	1359.4	1365.1
32.5°	1295.4	1314.6	1333.7	1352.8	1360.0	1367.3	1374.5	1381.8	1389.0	1396.3	1403.5
35°	1319.8	1342.0	1364.2	1386.4	1395.0	1403.5	1412.1	1420.7	1429.2	1437.8	1446.4
37.5°	1349.5	1375.0	1400.5	1426.0	1436.5	1447.1	1457.6	1468.2	1478.7	1489.3	1499.8
40°	1386.4	1416.1	1445.7	1475.4	1487.9	1500.4	1513.0	1525.5	1538.0	1550.5	1563.1
42.5°	1431.2	1465.7	1500.2	1534.7	1549.9	1565.0	1580.2	1595.4	1610.5	1625.7	1640.9
45°	1489.9	1530.6	1571.2	1611.9	1629.3	1646.6	1664.0	1681.3	1698.7	1716.0	1733.4
47.5°	1556.5	1603.3	1650.1	1696.9	1717.6	1738.2	1758.9	1779.5	1800.2	1820.8	1841.5
50°	1637.6	1692.3	1747.0	1801.7	1825.2	1848.7	1872.2	1895.7	1919.3	1942.8	1966.3
52.5°	1720.0	1781.5	1843.1	1904.6	1932.3	1960.0	1987.7	2015.4	2043.0	2070.7	2098.4
55°	1828.1	1899.0	1970.0	2041.0	2070.2	2099.5	2128.7	2157.9	2187.2	2216.4	2245.6
57.5°	1933.6	2012.3	2090.9	2169.6	2201.5	2233.3	2265.2	2297.1	2328.9	2360.8	2392.7
60°	2047.0	2133.4	2219.7	2306.1	2338.6	2371.1	2403.7	2436.2	2468.7	2501.2	2533.8
62.5°	2149.8	2241.4	2333.1	2424.7	2457.7	2490.6	2523.6	2556.6	2589.5	2622.5	2655.5
65°	2238.8	2335.1	2431.3	2527.6	2559.9	2592.2	2624.5	2656.8	2689.1	2721.4	2753.7
67.5°	2300.1	2398.4	2496.6	2594.8	2626.2	2657.6	2689.1	2720.5	2751.9	2783.3	2814.8
70°	2327.1	2424.9	2522.7	2620.5	2650.2	2679.8	2709.5	2739.2	2768.8	2798.5	2828.2
72.5°	2309.3	2404.5	2499.6	2594.8	2622.7	2650.6	2678.5	2706.4	2734.4	2762.3	2790.2
75°	2243.4	2333.5	2423.6	2513.7	2539.9	2566.0	2592.2	2618.3	2644.5	2670.6	2696.8
77.5°	2143.2	2227.8	2312.4	2397.0	2419.9	2442.7	2465.6	2488.4	2511.3	2534.1	2557.0
80°	1998.2	2075.1	2152.0	2228.9	2249.8	2270.7	2291.5	2312.4	2333.3	2354.2	2375.0
82.5°	1834.1	1902.4	1970.8	2039.1	2058.2	2077.3	2096.4	2115.5	2134.7	2153.8	2172.9
85°	1663.3	1723.3	1783.3	1843.3	1860.2	1877.1	1894.0	1910.9	1927.9	1944.8	1961.7
87.5°	1492.5	1544.8	1597.1	1649.4	1665.0	1680.6	1696.2	1711.8	1727.5	1743.1	1758.7
90°	1342.9	1389.0	1435.2	1481.3	1495.6	1509.9	1524.2	1538.5	1552.7	1567.0	1581.3
92.5°	1220.3	1261.1	1302.0	1342.9	1356.1	1369.3	1382.5	1395.7	1408.8	1422.0	1435.2
95°	1120.1	1158.1	1196.1	1234.1	1247.3	1260.5	1273.7	1286.9	1300.0	1313.2	1326.4
97.5°	1038.3	1073.9	1109.5	1145.1	1157.2	1169.3	1181.4	1193.5	1205.5	1217.6	1229.7
100°	970.4	1004.2	1038.1	1071.9	1083.8	1095.6	1107.5	1119.4	1131.2	1143.1	1155.0
102.5°	917.7	950.7	983.6	1016.6	1027.8	1039.0	1050.2	1061.4	1072.6	1083.8	1095.0
105°	871.5	904.1	936.6	969.1	980.1	991.1	1002.1	1013.1	1024.0	1035.0	1046.0
107.5°	830.7	863.0	895.3	927.6	938.6	949.6	960.6	971.6	982.5	993.5	1004.5
110°	793.7	825.8	857.9	890.0	901.0	912.0	923.0	934.0	944.9	955.9	966.9



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-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°	756.2	788.2	820.3	852.4	863.4	874.4	885.4	896.4	907.3	918.3	929.3
115°	719.2	751.1	782.9	814.8	826.0	837.2	848.4	859.6	870.9	882.1	893.3
117.5°	679.0	711.1	743.2	775.3	786.7	798.1	809.6	821.0	832.4	843.8	855.3
120°	637.5	668.3	699.0	729.8	741.4	753.1	764.7	776.4	788.0	799.7	811.3
122.5°	591.3	621.0	650.6	680.3	692.2	704.0	715.9	727.8	739.6	751.5	763.4
125°	543.2	571.1	599.0	626.9	638.8	650.6	662.5	674.4	686.2	698.1	710.0
127.5°	498.4	525.4	552.5	579.5	590.0	600.6	611.1	621.7	632.2	642.8	653.3
130°	441.7	467.2	492.7	518.2	528.3	538.4	548.5	558.6	568.7	578.8	588.9
132.5°	388.9	412.9	436.8	460.8	470.3	479.7	489.2	498.6	508.1	517.5	527.0
135°	343.5	365.4	387.4	409.4	417.5	425.7	433.8	441.9	450.1	458.2	466.3
137.5°	292.7	311.2	329.6	348.1	356.4	364.8	373.1	381.5	389.8	398.2	406.5
140°	245.2	260.4	275.5	290.7	298.6	306.5	314.4	322.3	330.3	338.2	346.1
142.5°	205.1	217.8	230.6	243.3	250.3	257.4	264.4	271.4	278.5	285.5	292.5
145°	171.4	182.2	192.9	203.7	210.5	217.3	224.1	230.9	237.8	244.6	251.4
147.5°	139.7	148.5	157.3	166.1	172.9	179.7	186.5	193.3	200.2	207.0	213.8
150°	113.4	120.4	127.5	134.5	140.9	147.2	153.6	160.0	166.3	172.7	179.1
152.5°	88.3	93.8	99.3	104.8	111.0	117.1	123.3	129.4	135.6	141.7	147.9
155°	67.9	72.3	76.7	81.1	86.6	92.1	97.6	103.1	108.5	114.0	119.5
157.5°	48.8	52.3	55.8	59.3	64.1	69.0	73.8	78.6	83.5	88.3	93.1
160°	34.3	36.7	39.1	41.5	45.7	49.9	54.0	58.2	62.4	66.6	70.7
162.5°	21.7	23.1	24.4	25.7	29.0	32.3	35.6	38.9	42.2	45.5	48.8
165°	13.2	13.4	13.6	13.8	16.4	19.1	21.7	24.4	27.0	29.7	32.3
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: P201387

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	1085.8	1085.8
2.5°	1094.6	1093.7
5°	1119.4	1119.4
7.5°	1141.0	1141.2
10°	1158.6	1159.0
12.5°	1177.8	1178.7
15°	1202.4	1204.4
17.5°	1231.5	1234.1
20°	1260.5	1263.8
22.5°	1287.8	1291.5
25°	1313.0	1317.2
27.5°	1340.1	1344.9
30°	1370.8	1376.5
32.5°	1410.8	1418.0
35°	1454.9	1463.5
37.5°	1510.4	1520.9
40°	1575.6	1588.1
42.5°	1656.0	1671.2
45°	1750.7	1768.1
47.5°	1862.1	1882.8
50°	1989.8	2013.3
52.5°	2126.1	2153.8
55°	2274.9	2304.1
57.5°	2424.5	2456.4
60°	2566.3	2598.8
62.5°	2688.4	2721.4
65°	2786.0	2818.3
67.5°	2846.2	2877.6
70°	2857.8	2887.5
72.5°	2818.1	2846.0
75°	2722.9	2749.1
77.5°	2579.8	2602.7
80°	2395.9	2416.8
82.5°	2192.0	2211.1
85°	1978.6	1995.5
87.5°	1774.3	1789.9
90°	1595.6	1609.9
92.5°	1448.4	1461.6
95°	1339.6	1352.8
97.5°	1241.8	1253.9
100°	1166.8	1178.7
102.5°	1106.2	1117.4
105°	1057.0	1068.0
107.5°	1015.5	1026.5
110°	977.9	988.9



TEST NUMBER: P201387

CATALOG NUMBER: 8LBLED-LD4-9-ASYMF-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	940.3	951.3
115°	904.5	915.7
117.5°	866.7	878.1
120°	823.0	834.6
122.5°	775.2	787.1
125°	721.8	733.7
127.5°	663.9	674.4
130°	599.0	609.1
132.5°	536.4	545.9
135°	474.5	482.6
137.5°	414.9	423.2
140°	354.0	361.9
142.5°	299.6	306.6
145°	258.2	265.0
147.5°	220.6	227.4
150°	185.4	191.8
152.5°	154.0	160.2
155°	125.0	130.5
157.5°	98.0	102.8
160°	74.9	79.1
162.5°	52.1	55.4
165°	35.0	37.6
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)