

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: P201340

Luminaire Tested: **4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28234)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U
Description: 4 ft. Low Bay Linear, 6000 lm, Frst Asym lens, 4K
Light Source: (308) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
OT50W0620CC, OT30W0400CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6506.8 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 2.02 / 1.17 / 1.78
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

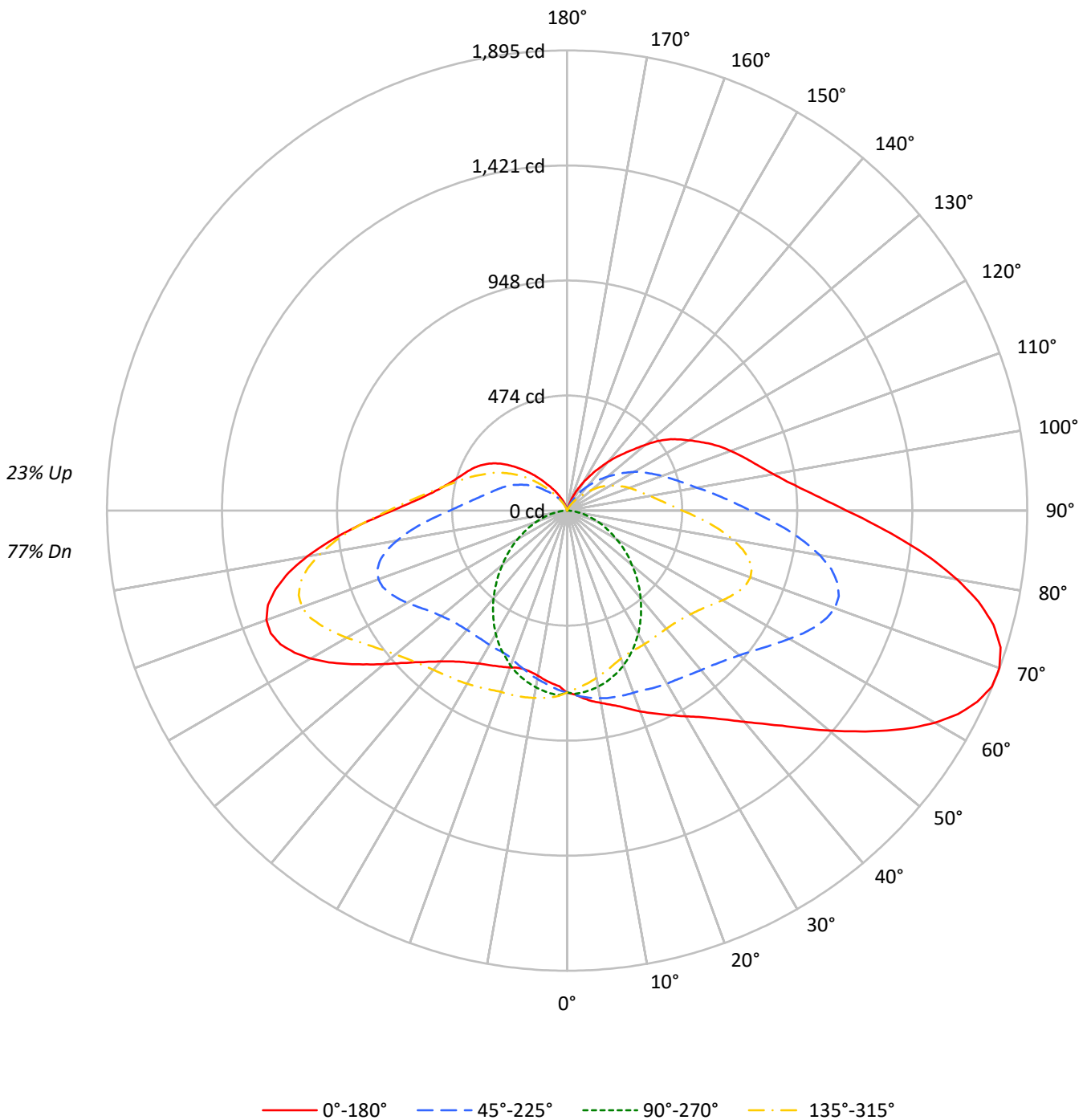
Input Watts (W): 46.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	77
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	62	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	46	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	36	42	37	33	29
4	70	55	45	37	65	52	43	35	47	39	32	41	35	29	37	31	27	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	24	32	27	22	19
6	58	43	33	26	54	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	29	23	18	26	20	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	12	10
10	43	29	21	15	41	28	20	15	25	18	13	23	17	12	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12076	12076	12076	12076
5°	11324	12099	10422	12180
10°	10792	11941	9264	11990
15°	10437	11706	8462	11756
20°	10387	11419	8112	11452
25°	10407	11031	7935	11049
30°	10589	10578	7874	10614
35°	10961	10052	7990	10071
40°	11676	9487	8335	9507
45°	12717	8875	8964	8875
50°	14218	8208	9922	8231
55°	15992	7631	11133	7631
60°	17839	6853	12444	6912
65°	19356	6240	13533	6274
70°	20186	5561	14042	5561
75°	20036	4740	13691	4740
80°	18767	3726	12500	3798
85°	16806	2435	10852	2551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.1
10°-20°	207.5	3.2
20°-30°	334.7	5.1
30°-40°	454.2	7.0
40°-50°	584.2	9.0
50°-60°	749.0	11.5
60°-70°	915.9	14.1
70°-80°	933.6	14.3
80°-90°	728.5	11.2
90°-100°	507.5	7.8
100°-110°	378.5	5.8
110°-120°	284.1	4.4
120°-130°	192.7	3.0
130°-140°	105.9	1.6
140°-150°	45.0	0.7
150°-160°	13.2	0.2
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	613.3	9.4
0°-40°	1067.5	16.4
0°-60°	2400.7	36.9
0°-90°	4978.7	76.5
90°-120°	1170.0	18.0
90°-150°	1513.6	23.3
90°-180°	1528.0	23.5
0°-180°	6506.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	749	749	749	749	749	
5°	776	751	714	756	776	75
15°	834	712	676	714	834	239
25°	925	636	706	636	925	430
35°	1043	530	760	531	1043	661
45°	1253	410	883	410	1253	979
55°	1582	292	1101	292	1582	1421
65°	1864	182	1303	183	1864	1836
75°	1818	91	1242	91	1818	1900
85°	1385	21	894	22	1385	1183
90°	1150	0	718	0	1150	633
95°	978	0	601	0	978	777
105°	783	0	482	0	783	832
115°	650	0	420	1	650	645
125°	512	0	337	1	512	456
135°	334	0	221	1	334	263
145°	192	0	118	1	192	123
155°	85	0	54	1	85	41
165°	10	0	9	1	10	4
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°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	758.4	758.3	758.2	758.1	758.0	757.8	757.7	757.6	757.5	757.4	757.7
5°	776.4	775.7	775.1	774.4	773.7	773.1	772.4	771.7	771.1	770.4	770.4
7.5°	791.4	790.4	789.4	788.4	787.4	786.4	785.4	784.4	783.4	782.4	782.0
10°	804.4	803.1	801.7	800.4	799.1	797.7	796.4	795.1	793.7	792.4	791.5
12.5°	818.4	816.8	815.3	813.7	812.2	810.6	809.1	807.5	806.0	804.4	802.8
15°	834.4	832.6	830.8	829.1	827.3	825.5	823.7	822.0	820.2	818.4	815.6
17.5°	856.4	854.0	851.5	849.1	846.6	844.2	841.7	839.3	836.8	834.4	830.2
20°	880.3	877.1	873.9	870.7	867.5	864.2	861.0	857.8	854.6	851.4	845.5
22.5°	902.3	898.4	894.5	890.7	886.8	882.9	879.0	875.2	871.3	867.4	860.1
25°	925.3	921.1	916.9	912.6	908.4	904.2	900.0	895.7	891.5	887.3	878.6
27.5°	951.3	946.4	941.5	936.6	931.7	926.9	922.0	917.1	912.2	907.3	897.2
30°	978.3	972.9	967.4	962.0	956.5	951.1	945.6	940.2	934.7	929.3	917.4
32.5°	1007.3	1001.0	994.6	988.3	982.0	975.6	969.3	963.0	956.6	950.3	936.8
35°	1043.2	1035.8	1028.3	1020.9	1013.5	1006.0	998.6	991.2	983.7	976.3	960.8
37.5°	1086.2	1077.5	1068.9	1060.2	1051.6	1042.9	1034.3	1025.6	1017.0	1008.3	990.3
40°	1135.2	1125.2	1115.2	1105.2	1095.2	1085.2	1075.2	1065.2	1055.2	1045.2	1024.3
42.5°	1190.1	1178.7	1167.2	1155.8	1144.4	1132.9	1121.5	1110.1	1098.6	1087.2	1063.0
45°	1253.1	1240.2	1227.3	1214.5	1201.6	1188.7	1175.8	1163.0	1150.1	1137.2	1109.2
47.5°	1328.0	1313.2	1298.5	1283.7	1268.9	1254.2	1239.4	1224.6	1209.9	1195.1	1162.8
50°	1409.0	1392.3	1375.7	1359.0	1342.4	1325.7	1309.1	1292.4	1275.8	1259.1	1222.1
52.5°	1493.9	1475.8	1457.7	1439.6	1421.5	1403.4	1385.3	1367.2	1349.1	1331.0	1289.0
55°	1581.8	1562.4	1543.0	1523.5	1504.1	1484.7	1465.3	1445.8	1426.4	1407.0	1360.0
57.5°	1668.8	1648.4	1627.9	1607.5	1587.1	1566.6	1546.2	1525.8	1505.3	1484.9	1433.2
60°	1747.7	1727.0	1706.4	1685.7	1665.1	1644.4	1623.8	1603.1	1582.5	1561.8	1505.6
62.5°	1814.7	1794.3	1773.8	1753.4	1733.0	1712.5	1692.1	1671.7	1651.2	1630.8	1571.3
65°	1863.6	1844.0	1824.3	1804.7	1785.0	1765.4	1745.7	1726.1	1706.4	1686.8	1624.8
67.5°	1893.6	1874.6	1855.6	1836.6	1817.6	1798.7	1779.7	1760.7	1741.7	1722.7	1659.9
70°	1894.6	1877.1	1859.5	1842.0	1824.4	1806.9	1789.3	1771.8	1754.2	1736.7	1674.1
72.5°	1871.6	1854.8	1838.1	1821.3	1804.5	1787.8	1771.0	1754.2	1737.5	1720.7	1659.9
75°	1817.7	1801.8	1785.9	1770.1	1754.2	1738.3	1722.4	1706.6	1690.7	1674.8	1616.8
77.5°	1735.7	1720.6	1705.5	1690.4	1675.3	1660.2	1645.1	1630.0	1614.9	1599.8	1545.8
80°	1630.8	1616.6	1602.4	1588.2	1574.0	1559.7	1545.5	1531.3	1517.1	1502.9	1453.3
82.5°	1511.9	1498.5	1485.0	1471.6	1458.2	1444.7	1431.3	1417.9	1404.4	1391.0	1346.0
85°	1385.0	1372.5	1359.9	1347.4	1334.8	1322.3	1309.7	1297.2	1284.6	1272.1	1231.9
87.5°	1262.1	1250.0	1237.9	1225.8	1213.7	1201.5	1189.4	1177.3	1165.2	1153.1	1117.1
90°	1150.1	1138.8	1127.5	1116.1	1104.8	1093.5	1082.2	1070.8	1059.5	1048.2	1015.6
92.5°	1056.2	1045.7	1035.1	1024.6	1014.0	1003.5	992.9	982.4	971.8	961.3	931.4
95°	978.3	968.3	958.3	948.3	938.3	928.3	918.3	908.3	898.3	888.3	860.4
97.5°	913.3	903.6	894.0	884.3	874.7	865.0	855.4	845.7	836.1	826.4	800.0
100°	862.4	853.0	843.5	834.1	824.6	815.2	805.7	796.3	786.8	777.4	751.2
102.5°	819.4	810.0	800.5	791.1	781.7	772.2	762.8	753.4	743.9	734.5	709.0
105°	783.4	774.0	764.5	755.1	745.7	736.2	726.8	717.4	707.9	698.5	673.4
107.5°	750.4	741.1	731.8	722.4	713.1	703.8	694.5	685.1	675.8	666.5	641.7
110°	717.5	708.3	699.1	689.8	680.6	671.4	662.2	652.9	643.7	634.5	610.3



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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°	685.5	676.2	666.9	657.5	648.2	638.9	629.6	620.2	610.9	601.6	578.2
115°	650.5	641.3	632.1	622.9	613.7	604.4	595.2	586.0	576.8	567.6	545.2
117.5°	613.5	604.8	596.2	587.5	578.9	570.2	561.6	552.9	544.3	535.6	514.4
120°	578.6	570.4	562.2	553.9	545.7	537.5	529.3	521.0	512.8	504.6	484.0
122.5°	545.6	537.6	529.6	521.6	513.6	505.6	497.6	489.6	481.6	473.6	453.4
125°	511.6	503.7	495.8	488.0	480.1	472.2	464.3	456.5	448.6	440.7	421.2
127.5°	470.7	463.1	455.6	448.0	440.5	432.9	425.4	417.8	410.3	402.7	384.6
130°	421.7	415.0	408.4	401.7	395.0	388.4	381.7	375.0	368.4	361.7	345.7
132.5°	374.7	369.0	363.4	357.7	352.1	346.4	340.8	335.1	329.5	323.8	309.5
135°	333.8	329.0	324.2	319.5	314.7	309.9	305.1	300.4	295.6	290.8	277.7
137.5°	297.8	293.4	288.9	284.5	280.0	275.6	271.1	266.7	262.2	257.8	245.9
140°	261.8	257.5	253.1	248.8	244.5	240.1	235.8	231.5	227.1	222.8	212.5
142.5°	223.8	220.4	216.9	213.5	210.1	206.6	203.2	199.8	196.3	192.9	183.8
145°	191.9	188.9	185.9	182.9	179.9	176.9	173.9	170.9	167.9	164.9	156.9
147.5°	161.9	159.2	156.6	153.9	151.2	148.6	145.9	143.2	140.6	137.9	131.0
150°	133.9	131.7	129.5	127.2	125.0	122.8	120.6	118.3	116.1	113.9	107.9
152.5°	108.9	106.9	104.9	102.9	100.9	98.9	96.9	94.9	92.9	90.9	85.8
155°	84.9	83.2	81.6	79.9	78.2	76.6	74.9	73.2	71.6	69.9	65.5
157.5°	62.0	60.7	59.3	58.0	56.7	55.3	54.0	52.7	51.3	50.0	46.4
160°	42.0	40.8	39.6	38.3	37.1	35.9	34.7	33.4	32.2	31.0	28.7
162.5°	23.0	22.3	21.7	21.0	20.3	19.7	19.0	18.3	17.7	17.0	15.6
165°	10.0	9.7	9.3	9.0	8.7	8.3	8.0	7.7	7.3	7.0	6.3
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°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	758.1	758.4	758.7	759.1	759.4	759.7	760.1	760.4	759.2	758.0	756.7
5°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	768.4	766.4	764.4
7.5°	781.5	781.1	780.6	780.2	779.7	779.3	778.8	778.4	775.6	772.8	770.1
10°	790.6	789.7	788.8	788.0	787.1	786.2	785.3	784.4	780.7	777.1	773.4
12.5°	801.3	799.7	798.2	796.6	795.1	793.5	792.0	790.4	785.6	780.8	776.1
15°	812.8	810.1	807.3	804.5	801.7	799.0	796.2	793.4	787.7	782.1	776.4
17.5°	826.0	821.7	817.5	813.3	809.1	804.8	800.6	796.4	789.6	782.9	776.1
20°	839.6	833.7	827.8	822.0	816.1	810.2	804.3	798.4	790.3	782.2	774.1
22.5°	852.7	845.4	838.1	830.7	823.4	816.1	808.7	801.4	791.7	782.1	772.4
25°	870.0	861.3	852.7	844.0	835.4	826.7	818.1	809.4	797.4	785.4	773.4
27.5°	887.1	877.0	866.9	856.8	846.7	836.6	826.5	816.4	802.1	787.8	773.4
30°	905.5	893.7	881.8	869.9	858.0	846.2	834.3	822.4	805.6	788.9	772.1
32.5°	923.2	909.7	896.1	882.6	869.0	855.5	841.9	828.4	809.3	790.2	771.1
35°	945.2	929.7	914.1	898.6	883.0	867.5	851.9	836.4	814.7	793.1	771.4
37.5°	972.3	954.3	936.3	918.4	900.4	882.4	864.4	846.4	822.2	798.0	773.8
40°	1003.5	982.6	961.7	940.9	920.0	899.1	878.3	857.4	830.6	803.9	777.1
42.5°	1038.8	1014.6	990.4	966.2	942.0	917.8	893.6	869.4	840.0	810.6	781.1
45°	1081.2	1053.2	1025.2	997.3	969.3	941.3	913.3	885.3	852.8	820.3	787.7
47.5°	1130.5	1098.2	1065.9	1033.5	1001.2	968.9	936.6	904.3	868.3	832.4	796.4
50°	1185.1	1148.2	1111.2	1074.2	1037.2	1000.3	963.3	926.3	886.7	847.0	807.4
52.5°	1247.1	1205.1	1163.1	1121.2	1079.2	1037.2	995.3	953.3	909.4	865.6	821.7
55°	1313.1	1266.1	1219.1	1172.2	1125.2	1078.2	1031.3	984.3	936.0	887.7	839.4
57.5°	1381.4	1329.7	1277.9	1226.2	1174.4	1122.7	1070.9	1019.2	966.0	912.8	859.7
60°	1449.4	1393.3	1337.1	1280.9	1224.7	1168.6	1112.4	1056.2	998.1	940.1	882.0
62.5°	1511.8	1452.3	1392.8	1333.2	1273.7	1214.2	1154.7	1095.2	1032.0	968.8	905.7
65°	1562.9	1500.9	1439.0	1377.0	1315.1	1253.1	1191.2	1129.2	1061.4	993.5	925.7
67.5°	1597.0	1534.2	1471.3	1408.5	1345.6	1282.8	1219.9	1157.1	1085.0	1013.0	940.9
70°	1611.5	1548.8	1486.2	1423.6	1361.0	1298.3	1235.7	1173.1	1098.0	1023.0	947.9
72.5°	1599.0	1538.2	1477.3	1416.5	1355.6	1294.8	1233.9	1173.1	1096.4	1019.7	942.9
75°	1558.9	1500.9	1442.9	1385.0	1327.0	1269.0	1211.1	1153.1	1076.7	1000.3	924.0
77.5°	1491.9	1437.9	1384.0	1330.0	1276.1	1222.1	1168.2	1114.2	1039.9	965.6	891.4
80°	1403.6	1354.0	1304.4	1254.7	1205.1	1155.5	1105.8	1056.2	985.7	915.2	844.7
82.5°	1301.1	1256.1	1211.1	1166.2	1121.2	1076.2	1031.3	986.3	920.6	854.8	789.1
85°	1191.7	1151.5	1111.3	1071.1	1030.9	990.7	950.5	910.3	849.9	789.5	729.1
87.5°	1081.2	1045.2	1009.2	973.3	937.3	901.3	865.4	829.4	774.8	720.2	665.5
90°	982.9	950.3	917.6	885.0	852.3	819.7	787.0	754.4	704.8	655.2	605.5
92.5°	901.6	871.7	841.8	812.0	782.1	752.2	722.4	692.5	647.3	602.1	556.9
95°	832.6	804.7	776.8	749.0	721.1	693.2	665.4	637.5	596.0	554.5	512.9
97.5°	773.6	747.1	720.7	694.3	667.9	641.4	615.0	588.6	550.0	511.3	472.7
100°	725.0	698.8	672.6	646.4	620.2	594.0	567.8	541.6	506.0	470.3	434.7
102.5°	683.4	657.9	632.3	606.8	581.2	555.7	530.1	504.6	470.9	437.1	403.4
105°	648.3	623.2	598.1	573.1	548.0	522.9	497.8	472.7	440.5	408.3	376.1
107.5°	617.0	592.2	567.5	542.7	518.0	493.2	468.5	443.7	412.8	382.0	351.1
110°	586.1	561.9	537.7	513.5	489.3	465.1	440.9	416.7	387.1	357.4	327.8



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	554.7	531.3	507.9	484.4	461.0	437.6	414.1	390.7	362.5	334.3	306.1
115°	522.7	500.3	477.9	455.4	433.0	410.6	388.1	365.7	338.7	311.7	284.8
117.5°	493.2	472.0	450.8	429.5	408.3	387.1	365.9	344.7	318.8	293.0	267.1
120°	463.3	442.7	422.0	401.4	380.7	360.1	339.4	318.8	294.6	270.4	246.2
122.5°	433.2	413.0	392.8	372.6	352.4	332.2	312.0	291.8	269.5	247.2	224.8
125°	401.6	382.1	362.5	343.0	323.4	303.9	284.3	264.8	244.3	223.7	203.2
127.5°	366.5	348.4	330.3	312.2	294.1	276.0	257.9	239.8	220.9	202.0	183.2
130°	329.7	313.7	297.7	281.8	265.8	249.8	233.8	217.8	200.4	183.0	165.5
132.5°	295.2	280.8	266.5	252.2	237.9	223.5	209.2	194.9	178.9	162.9	146.9
135°	264.6	251.5	238.4	225.3	212.2	199.1	186.0	172.9	158.5	144.0	129.6
137.5°	234.0	222.2	210.3	198.4	186.5	174.7	162.8	150.9	137.9	124.9	111.9
140°	202.2	191.8	181.5	171.2	160.9	150.5	140.2	129.9	118.2	106.6	94.9
142.5°	174.7	165.6	156.5	147.3	138.2	129.1	120.0	110.9	100.6	90.3	79.9
145°	148.9	140.9	132.9	124.9	116.9	108.9	100.9	92.9	83.9	74.9	65.9
147.5°	124.1	117.2	110.3	103.5	96.6	89.7	82.8	75.9	68.2	60.6	52.9
150°	101.9	95.9	89.9	84.0	78.0	72.0	66.0	60.0	53.8	47.6	41.3
152.5°	80.7	75.6	70.5	65.4	60.3	55.2	50.1	45.0	40.2	35.4	30.7
155°	61.0	56.6	52.2	47.7	43.3	38.9	34.4	30.0	26.8	23.6	20.3
157.5°	42.9	39.3	35.8	32.2	28.7	25.1	21.6	18.0	16.0	14.0	12.0
160°	26.3	24.0	21.7	19.3	17.0	14.7	12.3	10.0	8.9	7.8	6.7
162.5°	14.1	12.7	11.2	9.8	8.3	6.9	5.4	4.0	3.6	3.1	2.7
165°	5.7	5.0	4.3	3.7	3.0	2.3	1.7	1.0	0.9	0.8	0.7
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: P201340

CATALOG NUMBER: 4LBLELD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	755.5	754.3	753.1	751.8	750.6	749.4	750.1	750.7	751.4	752.1	752.7
5°	762.4	760.4	758.4	756.4	754.4	752.4	752.3	752.2	752.1	752.0	751.8
7.5°	767.3	764.5	761.7	759.0	756.2	753.4	752.5	751.6	750.7	749.8	749.0
10°	769.7	766.1	762.4	758.7	755.1	751.4	749.7	748.1	746.4	744.8	743.1
12.5°	771.3	766.5	761.7	757.0	752.2	747.4	745.0	742.5	740.1	737.7	735.2
15°	770.8	765.1	759.5	753.8	748.2	742.5	739.1	735.6	732.2	728.7	725.3
17.5°	769.3	762.6	755.8	749.0	742.3	735.5	731.2	726.8	722.5	718.2	713.8
20°	766.0	757.9	749.8	741.7	733.6	725.5	720.3	715.1	709.8	704.6	699.4
22.5°	762.8	753.1	743.5	733.8	724.2	714.5	708.2	701.8	695.5	689.2	682.8
25°	761.4	749.5	737.5	725.5	713.5	701.5	694.2	686.8	679.5	672.2	664.8
27.5°	759.1	744.8	730.5	716.1	701.8	687.5	678.9	670.4	661.8	653.3	644.7
30°	755.3	738.6	721.8	705.0	688.3	671.5	662.0	652.4	642.9	633.3	623.8
32.5°	752.0	732.9	713.8	694.7	675.6	656.5	645.5	634.5	623.5	612.5	601.6
35°	749.8	728.1	706.5	684.8	663.2	641.5	629.1	616.6	604.2	591.8	579.3
37.5°	749.6	725.3	701.1	676.9	652.7	628.5	614.2	599.9	585.5	571.2	556.9
40°	750.3	723.6	696.8	670.0	643.3	616.5	600.3	584.1	567.9	551.7	535.5
42.5°	751.7	722.3	692.9	663.4	634.0	604.6	586.4	568.2	550.0	531.8	513.5
45°	755.2	722.7	690.2	657.6	625.1	592.6	572.3	552.0	531.6	511.3	491.0
47.5°	760.4	724.5	688.5	652.5	616.6	580.6	558.3	536.0	513.6	491.3	469.0
50°	767.8	728.1	688.5	648.9	609.2	569.6	544.9	520.3	495.6	471.0	446.3
52.5°	777.9	734.0	690.2	646.3	602.5	558.6	532.3	506.0	479.7	453.4	427.0
55°	791.1	742.8	694.5	646.2	597.9	549.6	521.0	492.3	463.7	435.0	406.4
57.5°	806.5	753.3	700.1	647.0	593.8	540.6	509.8	479.1	448.3	417.6	386.8
60°	823.9	765.9	707.8	649.7	591.7	533.6	500.1	466.5	433.0	399.5	365.9
62.5°	842.5	779.3	716.1	653.0	589.8	526.6	491.2	455.8	420.3	384.9	349.5
65°	857.8	790.0	722.1	654.3	586.4	518.6	481.2	443.8	406.4	369.0	331.5
67.5°	868.9	796.8	724.8	652.7	580.7	508.6	469.6	430.7	391.7	352.7	313.8
70°	872.9	797.8	722.8	647.7	572.7	497.6	457.3	417.0	376.7	336.4	296.1
72.5°	866.2	789.5	712.8	636.0	559.3	482.6	441.4	400.2	359.0	317.8	276.7
75°	847.6	771.2	694.8	618.5	542.1	465.7	424.1	382.4	340.8	299.1	257.5
77.5°	817.1	742.8	668.5	594.3	520.0	445.7	404.1	362.4	320.8	279.1	237.5
80°	774.2	703.7	633.2	562.7	492.2	421.7	380.6	339.5	298.5	257.4	216.3
82.5°	723.4	657.6	591.9	526.2	460.4	394.7	354.7	314.8	274.8	234.8	194.9
85°	668.7	608.3	547.9	487.5	427.1	366.7	328.3	289.9	251.5	213.1	174.6
87.5°	610.9	556.3	501.7	447.0	392.4	337.8	301.2	264.5	227.9	191.2	154.6
90°	555.9	506.3	456.7	407.0	357.4	307.8	273.6	239.4	205.2	171.0	136.8
92.5°	511.7	466.6	421.4	376.2	331.0	285.8	254.0	222.3	190.5	158.8	127.0
95°	471.4	429.9	388.4	346.8	305.3	263.8	234.5	205.2	175.9	146.6	117.2
97.5°	434.0	395.4	356.7	318.1	279.4	240.8	214.0	187.3	160.5	133.8	107.0
100°	399.0	363.4	327.7	292.1	256.4	220.8	196.3	171.7	147.2	122.7	98.1
102.5°	369.6	335.9	302.1	268.4	234.6	200.9	178.6	156.3	133.9	111.6	89.3
105°	343.9	311.7	279.5	247.3	215.1	182.9	162.6	142.3	121.9	101.6	81.3
107.5°	320.2	289.4	258.5	227.6	196.8	165.9	147.5	129.0	110.6	92.2	73.7
110°	298.1	268.5	238.8	209.2	179.5	149.9	133.2	116.6	99.9	83.3	66.6



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	277.9	249.7	221.5	193.3	165.1	136.9	121.7	106.5	91.3	76.1	60.8
115°	257.8	230.8	203.8	176.9	149.9	122.9	109.2	95.6	81.9	68.3	54.6
117.5°	241.2	215.4	189.5	163.6	137.8	111.9	99.5	87.0	74.6	62.2	49.7
120°	222.0	197.7	173.5	149.3	125.1	100.9	89.7	78.5	67.3	56.1	44.8
122.5°	202.5	180.2	157.9	135.5	113.2	90.9	80.8	70.7	60.6	50.5	40.4
125°	182.6	162.1	141.5	121.0	100.4	79.9	71.0	62.1	53.3	44.4	35.5
127.5°	164.3	145.4	126.5	107.7	88.8	69.9	62.1	54.4	46.6	38.8	31.1
130°	148.1	130.7	113.3	95.8	78.4	61.0	54.2	47.4	40.7	33.9	27.1
132.5°	130.9	115.0	99.0	83.0	67.0	51.0	45.3	39.7	34.0	28.3	22.7
135°	115.2	100.7	86.3	71.9	57.4	43.0	38.2	33.4	28.7	23.9	19.1
137.5°	98.9	86.0	73.0	60.0	47.0	34.0	30.2	26.4	22.7	18.9	15.1
140°	83.3	71.6	60.0	48.3	36.7	25.0	22.2	19.4	16.7	13.9	11.1
142.5°	69.6	59.3	49.0	38.6	28.3	18.0	16.0	14.0	12.0	10.0	8.0
145°	56.9	48.0	39.0	30.0	21.0	12.0	10.7	9.3	8.0	6.7	5.3
147.5°	45.3	37.6	30.0	22.3	14.7	7.0	6.2	5.4	4.7	3.9	3.1
150°	35.1	28.9	22.7	16.4	10.2	4.0	3.6	3.1	2.7	2.2	1.8
152.5°	25.9	21.1	16.3	11.6	6.8	2.0	1.8	1.6	1.3	1.1	0.9
155°	17.1	13.9	10.7	7.4	4.2	1.0	0.9	0.8	0.7	0.6	0.4
157.5°	10.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	5.6	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.2	1.8	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.6	0.4	0.3	0.2	0.1	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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	753.4	754.1	754.7	755.4	753.7	752.1	750.4	748.8	747.1	745.5	743.8
5°	751.7	751.6	751.5	751.4	749.3	747.2	745.1	743.0	740.9	738.8	736.7
7.5°	748.1	747.2	746.3	745.4	742.7	740.1	737.4	734.8	732.1	729.5	726.8
10°	741.5	739.8	738.2	736.5	733.5	730.5	727.5	724.5	721.5	718.5	715.5
12.5°	732.8	730.4	727.9	725.5	722.1	718.6	715.2	711.7	708.3	704.8	701.4
15°	721.8	718.4	714.9	711.5	707.9	704.4	700.8	697.3	693.7	690.2	686.6
17.5°	709.5	705.2	700.8	696.5	692.8	689.2	685.5	681.8	678.2	674.5	670.8
20°	694.2	688.9	683.7	678.5	674.7	670.9	667.2	663.4	659.6	655.8	652.1
22.5°	676.5	670.2	663.8	657.5	653.9	650.4	646.8	643.3	639.7	636.2	632.6
25°	657.5	650.2	642.8	635.5	632.2	628.9	625.5	622.2	618.9	615.6	612.2
27.5°	636.2	627.6	619.1	610.5	607.6	604.7	601.9	599.0	596.1	593.2	590.4
30°	614.2	604.7	595.1	585.6	582.9	580.3	577.6	574.9	572.3	569.6	566.9
32.5°	590.6	579.6	568.6	557.6	555.7	553.8	551.9	550.0	548.2	546.3	544.4
35°	566.9	554.5	542.0	529.6	528.6	527.6	526.6	525.6	524.6	523.6	522.6
37.5°	542.6	528.2	513.9	499.6	499.8	500.0	500.3	500.5	500.7	500.9	501.2
40°	519.3	503.1	486.9	470.7	472.4	474.0	475.7	477.3	479.0	480.6	482.3
42.5°	495.3	477.1	458.9	440.7	444.1	447.6	451.0	454.5	457.9	461.4	464.8
45°	470.7	450.3	430.0	409.7	415.0	420.4	425.7	431.0	436.4	441.7	447.0
47.5°	446.7	424.3	402.0	379.7	386.8	393.9	401.0	408.1	415.3	422.4	429.5
50°	421.7	397.0	372.4	347.7	356.9	366.1	375.4	384.6	393.8	403.0	412.3
52.5°	400.7	374.4	348.1	321.8	332.7	343.6	354.4	365.3	376.2	387.1	397.9
55°	377.7	349.1	320.4	291.8	304.7	317.6	330.4	343.3	356.2	369.1	381.9
57.5°	356.1	325.3	294.6	263.8	278.8	293.8	308.8	323.8	338.7	353.7	368.7
60°	332.4	298.9	265.3	231.8	249.1	266.4	283.8	301.1	318.4	335.7	353.1
62.5°	314.1	278.6	243.2	207.8	226.7	245.6	264.4	283.3	302.2	321.1	339.9
65°	294.1	256.7	219.3	181.9	202.4	223.0	243.5	264.0	284.6	305.1	325.6
67.5°	274.8	235.8	196.9	157.9	179.9	201.9	223.8	245.8	267.8	289.8	311.7
70°	255.8	215.5	175.2	134.9	158.0	181.1	204.2	227.3	250.3	273.4	296.5
72.5°	235.5	194.3	153.1	111.9	135.8	159.7	183.5	207.4	231.3	255.2	279.0
75°	215.8	174.2	132.5	90.9	115.2	139.5	163.9	188.2	212.5	236.8	261.2
77.5°	195.8	154.2	112.5	70.9	95.4	120.0	144.5	169.1	193.6	218.2	242.7
80°	175.2	134.2	93.1	52.0	76.4	100.8	125.3	149.7	174.1	198.5	223.0
82.5°	154.9	114.9	75.0	35.0	59.0	83.0	106.9	130.9	154.9	178.9	202.8
85°	136.2	97.8	59.4	21.0	43.9	66.7	89.6	112.5	135.3	158.2	181.1
87.5°	117.9	81.3	44.6	8.0	30.1	52.2	74.3	96.4	118.4	140.5	162.6
90°	102.6	68.4	34.2	0.0	20.8	41.5	62.3	83.1	103.8	124.6	145.4
92.5°	95.3	63.5	31.8	0.0	19.3	38.6	58.0	77.3	96.6	115.9	135.3
95°	87.9	58.6	29.3	0.0	18.0	36.0	54.0	72.0	89.9	107.9	125.9
97.5°	80.3	53.5	26.8	0.0	16.5	33.1	49.6	66.2	82.7	99.3	115.8
100°	73.6	49.1	24.5	0.0	15.3	30.6	46.0	61.3	76.6	91.9	107.3
102.5°	67.0	44.6	22.3	0.0	14.1	28.2	42.3	56.4	70.5	84.6	98.7
105°	61.0	40.6	20.3	0.0	12.9	25.8	38.6	51.5	64.4	77.3	90.1
107.5°	55.3	36.9	18.4	0.0	11.8	23.5	35.3	47.1	58.8	70.6	82.4
110°	50.0	33.3	16.7	0.0	10.8	21.5	32.3	43.1	53.8	64.6	75.4



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	45.6	30.4	15.2	0.0	9.8	19.5	29.3	39.1	48.8	58.6	68.4
115°	41.0	27.3	13.7	0.0	8.7	17.3	26.0	34.6	43.3	51.9	60.6
117.5°	37.3	24.9	12.4	0.0	7.8	15.5	23.3	31.1	38.8	46.6	54.4
120°	33.6	22.4	11.2	0.0	7.0	14.0	21.0	28.0	35.0	42.0	49.0
122.5°	30.3	20.2	10.1	0.0	6.2	12.4	18.7	24.9	31.1	37.3	43.6
125°	26.6	17.8	8.9	0.0	5.6	11.1	16.7	22.2	27.8	33.3	38.9
127.5°	23.3	15.5	7.8	0.0	4.8	9.6	14.3	19.1	23.9	28.7	33.4
130°	20.3	13.6	6.8	0.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0
132.5°	17.0	11.3	5.7	0.0	3.3	6.7	10.0	13.3	16.7	20.0	23.3
135°	14.3	9.6	4.8	0.0	2.7	5.3	8.0	10.7	13.3	16.0	18.7
137.5°	11.3	7.6	3.8	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0
140°	8.3	5.6	2.8	0.0	1.4	2.9	4.3	5.8	7.2	8.7	10.1
142.5°	6.0	4.0	2.0	0.0	0.9	1.8	2.7	3.6	4.4	5.3	6.2
145°	4.0	2.7	1.3	0.0	0.6	1.1	1.7	2.2	2.8	3.3	3.9
147.5°	2.3	1.6	0.8	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
150°	1.3	0.9	0.4	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
152.5°	0.7	0.4	0.2	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
155°	0.3	0.2	0.1	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	742.2	740.5	740.1	739.6	739.2	738.7	738.3	737.8	737.4	736.9	736.5
5°	734.6	732.5	731.6	730.7	729.8	728.9	728.1	727.2	726.3	725.4	724.5
7.5°	724.2	721.5	720.5	719.5	718.5	717.5	716.5	715.5	714.5	713.5	712.5
10°	712.5	709.5	708.4	707.3	706.2	705.1	703.9	702.8	701.7	700.6	699.5
12.5°	697.9	694.5	693.5	692.5	691.5	690.5	689.5	688.5	687.5	686.5	685.5
15°	683.1	679.5	678.7	677.9	677.2	676.4	675.6	674.8	674.1	673.3	672.5
17.5°	667.2	663.5	663.1	662.6	662.2	661.7	661.3	660.8	660.4	659.9	659.5
20°	648.3	644.5	644.9	645.4	645.8	646.3	646.7	647.2	647.6	648.1	648.5
22.5°	629.1	625.5	627.2	628.8	630.5	632.2	633.8	635.5	637.2	638.8	640.5
25°	608.9	605.6	609.0	612.5	615.9	619.3	622.8	626.2	629.6	633.1	636.5
27.5°	587.5	584.6	590.4	596.1	601.9	607.7	613.4	619.2	625.0	630.7	636.5
30°	564.3	561.6	569.8	578.0	586.2	594.4	602.7	610.9	619.1	627.3	635.5
32.5°	542.5	540.6	551.0	561.5	571.9	582.3	592.8	603.2	613.6	624.1	634.5
35°	521.6	520.6	533.1	545.7	558.2	570.8	583.3	595.9	608.4	621.0	633.5
37.5°	501.4	501.6	516.3	530.9	545.6	560.2	574.9	589.5	604.2	618.8	633.5
40°	483.9	485.6	502.3	518.9	535.6	552.2	568.9	585.5	602.2	618.8	635.5
42.5°	468.3	471.7	490.2	508.8	527.3	545.8	564.4	582.9	601.4	620.0	638.5
45°	452.4	457.7	478.5	499.2	520.0	540.7	561.5	582.2	603.0	623.7	644.5
47.5°	436.6	443.7	466.9	490.1	513.3	536.5	559.7	582.9	606.1	629.3	652.5
50°	421.5	430.7	456.6	482.4	508.3	534.2	560.0	585.9	611.8	637.6	663.5
52.5°	408.8	419.7	448.3	477.0	505.6	534.3	562.9	591.6	620.2	648.9	677.5
55°	394.8	407.7	439.6	471.4	503.3	535.2	567.0	598.9	630.8	662.6	694.5
57.5°	383.7	398.7	433.9	469.1	504.3	539.5	574.7	609.9	645.1	680.3	715.5
60°	370.4	387.7	426.7	465.7	504.6	543.6	582.6	621.6	660.5	699.5	738.5
62.5°	358.8	377.7	420.3	463.0	505.6	548.2	590.9	633.5	676.1	718.8	761.4
65°	346.2	366.7	412.9	459.1	505.3	551.5	597.6	643.8	690.0	736.2	782.4
67.5°	333.7	355.7	404.8	453.9	502.9	552.0	601.1	650.2	699.2	748.3	797.4
70°	319.6	342.7	393.9	445.1	496.3	547.5	598.6	649.8	701.0	752.2	803.4
72.5°	302.9	326.8	379.0	431.2	483.3	535.5	587.7	639.9	692.0	744.2	796.4
75°	285.5	309.8	361.5	413.3	465.0	516.7	568.5	620.2	671.9	723.7	775.4
77.5°	267.3	291.8	341.7	391.5	441.4	491.2	541.1	590.9	640.8	690.6	740.5
80°	247.4	271.8	318.7	365.5	412.4	459.2	506.1	552.9	599.8	646.6	693.5
82.5°	226.8	250.8	294.1	337.4	380.7	424.0	467.3	510.6	553.9	597.2	640.5
85°	203.9	226.8	266.6	306.3	346.1	385.8	425.6	465.3	505.1	544.8	584.6
87.5°	184.7	206.8	242.3	277.9	313.4	348.9	384.5	420.0	455.5	491.1	526.6
90°	166.1	186.9	218.8	250.6	282.5	314.3	346.2	378.0	409.9	441.7	473.6
92.5°	154.6	173.9	202.7	231.4	260.2	288.9	317.7	346.4	375.2	403.9	432.7
95°	143.9	161.9	188.3	214.7	241.2	267.6	294.0	320.4	346.9	373.3	399.7
97.5°	132.4	148.9	173.5	198.2	222.8	247.5	272.1	296.8	321.4	346.1	370.7
100°	122.6	137.9	161.0	184.1	207.2	230.3	253.3	276.4	299.5	322.6	345.7
102.5°	112.8	126.9	148.9	170.9	192.9	214.9	236.8	258.8	280.8	302.8	324.8
105°	103.0	115.9	137.0	158.1	179.2	200.3	221.4	242.5	263.6	284.7	305.8
107.5°	94.1	105.9	126.2	146.5	166.9	187.2	207.5	227.8	248.2	268.5	288.8
110°	86.1	96.9	116.4	136.0	155.5	175.1	194.6	214.2	233.7	253.3	272.8



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	78.1	87.9	106.7	125.4	144.2	163.0	181.7	200.5	219.3	238.0	256.8
115°	69.2	77.9	95.7	113.4	131.2	149.0	166.7	184.5	202.3	220.0	237.8
117.5°	62.1	69.9	86.8	103.7	120.5	137.4	154.3	171.2	188.0	204.9	221.8
120°	56.0	63.0	78.8	94.5	110.3	126.0	141.8	157.5	173.3	189.0	204.8
122.5°	49.8	56.0	70.7	85.3	100.0	114.6	129.3	143.9	158.6	173.2	187.9
125°	44.4	50.0	63.4	76.9	90.3	103.7	117.2	130.6	144.0	157.5	170.9
127.5°	38.2	43.0	55.1	67.2	79.3	91.4	103.5	115.6	127.7	139.8	151.9
130°	32.0	36.0	46.5	57.1	67.6	78.2	88.7	99.3	109.8	120.4	130.9
132.5°	26.7	30.0	38.9	47.8	56.6	65.5	74.4	83.3	92.1	101.0	109.9
135°	21.3	24.0	31.8	39.5	47.3	55.1	62.8	70.6	78.4	86.1	93.9
137.5°	16.0	18.0	24.8	31.5	38.3	45.1	51.8	58.6	65.4	72.1	78.9
140°	11.6	13.0	18.9	24.8	30.7	36.6	42.4	48.3	54.2	60.1	66.0
142.5°	7.1	8.0	13.1	18.2	23.3	28.4	33.6	38.7	43.8	48.9	54.0
145°	4.4	5.0	9.2	13.4	17.7	21.9	26.1	30.3	34.6	38.8	43.0
147.5°	3.6	4.0	7.3	10.7	14.0	17.3	20.7	24.0	27.3	30.7	34.0
150°	2.7	3.0	5.6	8.1	10.7	13.2	15.8	18.3	20.9	23.4	26.0
152.5°	1.8	2.0	3.9	5.8	7.7	9.6	11.4	13.3	15.2	17.1	19.0
155°	0.9	1.0	2.2	3.4	4.7	5.9	7.1	8.3	9.6	10.8	12.0
157.5°	0.0	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.3	6.0
160°	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	735.9	735.4	734.8	734.3	733.7	733.2	732.6	732.1	731.5	730.7	729.9
5°	723.7	722.9	722.2	721.4	720.6	719.8	719.1	718.3	717.5	717.2	716.8
7.5°	711.6	710.7	709.8	708.9	708.1	707.2	706.3	705.4	704.5	704.4	704.3
10°	698.8	698.2	697.5	696.8	696.2	695.5	694.8	694.2	693.5	693.2	692.8
12.5°	685.2	684.8	684.5	684.2	683.8	683.5	683.2	682.8	682.5	682.4	682.3
15°	672.6	672.7	672.8	672.9	673.1	673.2	673.3	673.4	673.5	673.8	674.2
17.5°	660.7	661.9	663.2	664.4	665.6	666.8	668.1	669.3	670.5	671.4	672.3
20°	651.3	654.1	656.8	659.6	662.4	665.2	667.9	670.7	673.5	675.1	676.6
22.5°	644.9	649.4	653.8	658.3	662.7	667.2	671.6	676.1	680.5	682.3	684.1
25°	642.2	647.8	653.5	659.2	664.8	670.5	676.2	681.8	687.5	689.5	691.5
27.5°	642.9	649.4	655.8	662.3	668.7	675.2	681.6	688.1	694.5	696.8	699.2
30°	642.8	650.2	657.5	664.8	672.2	679.5	686.8	694.2	701.5	704.4	707.3
32.5°	642.9	651.4	659.8	668.3	676.7	685.2	693.6	702.1	710.5	714.1	717.6
35°	643.3	653.1	662.8	672.6	682.4	692.2	701.9	711.7	721.5	725.8	730.1
37.5°	644.9	656.4	667.8	679.3	690.7	702.2	713.6	725.1	736.5	741.6	746.7
40°	648.7	661.9	675.1	688.3	701.6	714.8	728.0	741.2	754.4	760.6	766.8
42.5°	653.9	669.4	684.8	700.2	715.7	731.1	746.5	762.0	777.4	784.8	792.3
45°	662.4	680.3	698.1	716.0	733.9	751.8	769.6	787.5	805.4	814.1	822.7
47.5°	673.3	694.0	714.8	735.6	756.3	777.1	797.9	818.6	839.4	849.4	859.4
50°	687.6	711.7	735.8	759.9	783.9	808.0	832.1	856.2	880.3	891.7	903.2
52.5°	705.0	732.6	760.1	787.6	815.2	842.7	870.2	897.8	925.3	938.1	950.8
55°	725.8	757.1	788.4	819.7	851.1	882.4	913.7	945.0	976.3	990.2	1004.1
57.5°	750.2	785.0	819.7	854.5	889.2	924.0	958.7	993.5	1028.2	1043.2	1058.2
60°	776.5	814.4	852.4	890.4	928.3	966.3	1004.3	1042.2	1080.2	1095.6	1111.1
62.5°	802.2	842.9	883.7	924.4	965.2	1005.9	1046.7	1087.4	1128.2	1143.5	1158.8
65°	825.1	867.9	910.6	953.4	996.1	1038.9	1081.6	1124.4	1167.1	1182.2	1197.3
67.5°	841.1	884.9	928.6	972.4	1016.1	1059.9	1103.6	1147.4	1191.1	1205.5	1220.0
70°	847.0	890.7	934.3	977.9	1021.6	1065.2	1108.8	1152.5	1196.1	1209.6	1223.2
72.5°	839.0	881.7	924.3	966.9	1009.6	1052.2	1094.8	1137.5	1180.1	1192.5	1205.0
75°	815.9	856.5	897.0	937.5	978.1	1018.6	1059.1	1099.7	1140.2	1151.5	1162.8
77.5°	778.1	815.8	853.4	891.0	928.7	966.3	1003.9	1041.6	1079.2	1089.6	1100.1
80°	727.7	761.9	796.1	830.3	864.5	898.7	932.9	967.1	1001.3	1010.7	1020.2
82.5°	671.0	701.6	732.1	762.6	793.2	823.7	854.2	884.8	915.3	923.7	932.2
85°	611.6	638.6	665.5	692.5	719.5	746.5	773.4	800.4	827.4	834.8	842.3
87.5°	550.3	573.9	597.6	621.2	644.9	668.5	692.2	715.8	739.5	746.3	753.0
90°	494.5	515.4	536.2	557.1	578.0	598.9	619.7	640.6	661.5	667.7	673.9
92.5°	451.5	470.2	489.0	507.8	526.5	545.3	564.1	582.8	601.6	607.3	612.9
95°	416.8	433.9	451.0	468.1	485.2	502.3	519.4	536.5	553.6	558.8	564.0
97.5°	386.8	402.9	419.0	435.1	451.2	467.3	483.4	499.5	515.6	520.6	525.6
100°	361.1	376.6	392.0	407.4	422.9	438.3	453.7	469.2	484.6	489.5	494.4
102.5°	339.8	354.8	369.8	384.8	399.7	414.7	429.7	444.7	459.7	464.5	469.2
105°	320.6	335.3	350.1	364.9	379.6	394.4	409.2	423.9	438.7	443.5	448.2
107.5°	303.6	318.3	333.1	347.9	362.6	377.4	392.2	406.9	421.7	426.5	431.3
110°	287.3	301.9	316.4	331.0	345.5	360.1	374.6	389.2	403.7	408.7	413.7



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	271.5	286.1	300.8	315.4	330.1	344.7	359.4	374.0	388.7	393.8	398.9
115°	252.7	267.6	282.4	297.3	312.2	327.1	341.9	356.8	371.7	377.0	382.4
117.5°	236.5	251.1	265.8	280.4	295.1	309.7	324.4	339.0	353.7	359.1	364.6
120°	219.1	233.5	247.8	262.1	276.5	290.8	305.1	319.5	333.8	339.3	344.9
122.5°	201.6	215.2	228.9	242.5	256.2	269.8	283.5	297.1	310.8	316.5	322.1
125°	183.8	196.7	209.5	222.4	235.3	248.2	261.0	273.9	286.8	292.4	297.9
127.5°	164.1	176.3	188.5	200.7	213.0	225.2	237.4	249.6	261.8	267.0	272.2
130°	142.3	153.8	165.2	176.6	188.1	199.5	210.9	222.4	233.8	238.9	244.0
132.5°	121.0	132.1	143.2	154.3	165.4	176.5	187.6	198.7	209.8	214.4	218.9
135°	104.0	114.1	124.2	134.3	144.5	154.6	164.7	174.8	184.9	188.9	192.9
137.5°	87.6	96.2	104.9	113.6	122.2	130.9	139.6	148.2	156.9	161.0	165.1
140°	72.9	79.8	86.6	93.5	100.4	107.3	114.1	121.0	127.9	132.1	136.3
142.5°	59.9	65.8	71.6	77.5	83.4	89.3	95.1	101.0	106.9	110.3	113.8
145°	48.0	53.0	58.0	63.0	67.9	72.9	77.9	82.9	87.9	91.2	94.6
147.5°	38.1	42.2	46.3	50.4	54.5	58.6	62.7	66.8	70.9	74.0	77.1
150°	29.3	32.7	36.0	39.3	42.7	46.0	49.3	52.7	56.0	59.0	62.0
152.5°	21.6	24.1	26.7	29.2	31.8	34.3	36.9	39.4	42.0	44.8	47.6
155°	14.1	16.2	18.3	20.4	22.6	24.7	26.8	28.9	31.0	33.6	36.1
157.5°	7.7	9.3	11.0	12.7	14.3	16.0	17.7	19.3	21.0	23.2	25.4
160°	3.2	4.4	5.7	6.9	8.1	9.3	10.6	11.8	13.0	14.9	16.8
162.5°	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4	5.0	6.4	7.9
165°	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.9	2.8
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	729.2	728.4	727.6	726.8	726.1	725.3	724.5	725.2	725.8	726.5	727.2
5°	716.5	716.2	715.8	715.5	715.2	714.8	714.5	714.8	715.2	715.5	715.8
7.5°	704.2	704.1	703.9	703.8	703.7	703.6	703.5	703.6	703.7	703.8	703.9
10°	692.5	692.2	691.8	691.5	691.2	690.8	690.5	690.6	690.7	690.8	690.9
12.5°	682.2	682.1	681.9	681.8	681.7	681.6	681.5	681.4	681.3	681.2	681.1
15°	674.5	674.8	675.2	675.5	675.8	676.2	676.5	676.2	675.8	675.5	675.2
17.5°	673.2	674.1	674.9	675.8	676.7	677.6	678.5	677.6	676.7	675.8	674.9
20°	678.2	679.7	681.3	682.8	684.4	685.9	687.5	685.7	683.9	682.2	680.4
22.5°	685.8	687.6	689.4	691.2	692.9	694.7	696.5	694.3	692.1	689.8	687.6
25°	693.5	695.5	697.5	699.5	701.5	703.5	705.5	703.2	700.8	698.5	696.2
27.5°	701.5	703.8	706.2	708.5	710.8	713.2	715.5	712.8	710.2	707.5	704.8
30°	710.2	713.1	715.9	718.8	721.7	724.6	727.5	724.4	721.3	718.2	715.1
32.5°	721.2	724.7	728.3	731.8	735.4	738.9	742.5	738.8	735.2	731.5	727.8
35°	734.5	738.8	743.1	747.4	751.8	756.1	760.4	756.1	751.8	747.4	743.1
37.5°	751.8	756.9	762.0	767.1	772.2	777.3	782.4	777.3	772.2	767.1	762.0
40°	773.1	779.3	785.5	791.7	798.0	804.2	810.4	804.4	798.4	792.4	786.4
42.5°	799.7	807.2	814.6	822.1	829.5	837.0	844.4	837.3	830.2	823.1	816.0
45°	831.4	840.0	848.7	857.3	866.0	874.6	883.3	875.4	867.5	859.7	851.8
47.5°	869.4	879.4	889.3	899.3	909.3	919.3	929.3	920.2	911.1	902.0	892.9
50°	914.6	926.1	937.5	949.0	960.4	971.9	983.3	972.7	962.2	951.6	941.1
52.5°	963.6	976.4	989.1	1001.9	1014.7	1027.4	1040.2	1028.7	1017.1	1005.6	994.0
55°	1017.9	1031.8	1045.7	1059.6	1073.4	1087.3	1101.2	1088.8	1076.3	1063.9	1051.5
57.5°	1073.2	1088.2	1103.1	1118.1	1133.1	1148.1	1163.1	1149.8	1136.5	1123.1	1109.8
60°	1126.5	1141.9	1157.4	1172.8	1188.2	1203.7	1219.1	1205.4	1191.8	1178.1	1164.5
62.5°	1174.2	1189.5	1204.8	1220.1	1235.5	1250.8	1266.1	1252.7	1239.2	1225.8	1212.4
65°	1212.4	1227.5	1242.6	1257.7	1272.8	1287.9	1303.0	1289.9	1276.8	1263.7	1250.6
67.5°	1234.4	1248.8	1263.3	1277.7	1292.1	1306.6	1321.0	1308.5	1295.9	1283.4	1270.8
70°	1236.7	1250.3	1263.8	1277.4	1290.9	1304.5	1318.0	1306.2	1294.5	1282.7	1270.9
72.5°	1217.4	1229.8	1242.3	1254.7	1267.1	1279.6	1292.0	1280.9	1269.8	1258.7	1247.6
75°	1174.2	1185.5	1196.8	1208.1	1219.5	1230.8	1242.1	1231.8	1221.4	1211.1	1200.8
77.5°	1110.5	1120.9	1131.4	1141.8	1152.2	1162.7	1173.1	1163.4	1153.8	1144.1	1134.5
80°	1029.6	1039.0	1048.5	1057.9	1067.3	1076.8	1086.2	1077.1	1068.0	1058.9	1049.8
82.5°	940.6	949.1	957.5	966.0	974.4	982.9	991.3	982.6	974.0	965.3	956.6
85°	849.7	857.1	864.6	872.0	879.4	886.9	894.3	886.3	878.3	870.3	862.3
87.5°	759.8	766.6	773.3	780.1	786.9	793.6	800.4	794.0	787.5	781.1	774.7
90°	680.2	686.4	692.6	698.8	705.1	711.3	717.5	711.5	705.5	699.5	693.5
92.5°	618.6	624.2	629.9	635.5	641.2	646.8	652.5	646.8	641.2	635.5	629.9
95°	569.3	574.5	579.7	584.9	590.2	595.4	600.6	595.5	590.4	585.3	580.2
97.5°	530.6	535.6	540.6	545.6	550.6	555.6	560.6	555.7	550.8	545.9	541.0
100°	499.3	504.2	509.0	513.9	518.8	523.7	528.6	523.9	519.3	514.6	509.9
102.5°	474.0	478.8	483.5	488.3	493.1	497.8	502.6	497.9	493.3	488.6	484.0
105°	453.0	457.8	462.5	467.3	472.1	476.8	481.6	477.2	472.7	468.3	463.9
107.5°	436.0	440.8	445.6	450.4	455.1	459.9	464.7	460.1	455.6	451.0	446.5
110°	418.7	423.7	428.7	433.7	438.7	443.7	448.7	444.0	439.4	434.7	430.0



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	404.0	409.1	414.3	419.4	424.5	429.6	434.7	429.9	425.1	420.4	415.6
115°	387.7	393.0	398.4	403.7	409.0	414.4	419.7	414.7	409.7	404.7	399.7
117.5°	370.0	375.5	380.9	386.4	391.8	397.3	402.7	397.6	392.5	387.4	382.3
120°	350.4	356.0	361.5	367.1	372.6	378.2	383.7	378.6	373.5	368.4	363.3
122.5°	327.8	333.4	339.1	344.7	350.4	356.0	361.7	356.6	351.5	346.4	341.3
125°	303.5	309.0	314.6	320.1	325.7	331.2	336.8	331.8	326.8	321.8	316.8
127.5°	277.5	282.7	287.9	293.1	298.4	303.6	308.8	304.1	299.5	294.8	290.1
130°	249.1	254.2	259.4	264.5	269.6	274.7	279.8	275.2	270.7	266.1	261.6
132.5°	223.5	228.0	232.6	237.1	241.7	246.2	250.8	246.7	242.6	238.5	234.4
135°	196.9	200.9	204.8	208.8	212.8	216.8	220.8	217.5	214.2	210.8	207.5
137.5°	169.2	173.3	177.5	181.6	185.7	189.8	193.9	190.7	187.5	184.2	181.0
140°	140.6	144.8	149.0	153.2	157.5	161.7	165.9	162.9	159.9	156.9	153.9
142.5°	117.2	120.7	124.1	127.6	131.0	134.5	137.9	135.9	133.9	131.9	129.9
145°	97.9	101.2	104.6	107.9	111.2	114.6	117.9	116.2	114.6	112.9	111.2
147.5°	80.2	83.3	86.5	89.6	92.7	95.8	98.9	97.6	96.2	94.9	93.6
150°	65.0	68.0	70.9	73.9	76.9	79.9	82.9	81.8	80.7	79.6	78.5
152.5°	50.3	53.1	55.9	58.7	61.4	64.2	67.0	66.1	65.2	64.3	63.4
155°	38.7	41.2	43.8	46.3	48.9	51.4	54.0	53.2	52.4	51.7	50.9
157.5°	27.7	29.9	32.1	34.3	36.6	38.8	41.0	40.4	39.9	39.3	38.8
160°	18.7	20.6	22.4	24.3	26.2	28.1	30.0	29.4	28.9	28.3	27.8
162.5°	9.3	10.8	12.2	13.7	15.1	16.6	18.0	17.7	17.3	17.0	16.7
165°	3.7	4.6	5.4	6.3	7.2	8.1	9.0	9.0	9.0	9.0	9.0
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: P201340

CATALOG NUMBER: 4LBLELD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	727.8	728.5	729.2	729.8	730.5	731.6	732.7	733.8	734.9	736.1	737.2
5°	716.2	716.5	716.8	717.2	717.5	718.7	719.9	721.2	722.4	723.6	724.8
7.5°	704.1	704.2	704.3	704.4	704.5	705.7	706.9	708.2	709.4	710.6	711.8
10°	691.1	691.2	691.3	691.4	691.5	692.9	694.4	695.8	697.3	698.7	700.2
12.5°	680.9	680.8	680.7	680.6	680.5	681.8	683.2	684.5	685.8	687.2	688.5
15°	674.8	674.5	674.2	673.8	673.5	674.1	674.6	675.2	675.7	676.3	676.8
17.5°	674.1	673.2	672.3	671.4	670.5	670.1	669.6	669.2	668.7	668.3	667.8
20°	678.6	676.8	675.1	673.3	671.5	669.5	667.5	665.5	663.5	661.5	659.5
22.5°	685.4	683.2	680.9	678.7	676.5	672.9	669.4	665.8	662.3	658.7	655.2
25°	693.8	691.5	689.2	686.8	684.5	679.6	674.7	669.8	664.9	660.1	655.2
27.5°	702.2	699.5	696.8	694.2	691.5	685.8	680.2	674.5	668.8	663.2	657.5
30°	711.9	708.8	705.7	702.6	699.5	692.7	685.9	679.2	672.4	665.6	658.8
32.5°	724.2	720.5	716.8	713.2	709.5	701.5	693.5	685.5	677.5	669.5	661.5
35°	738.8	734.5	730.1	725.8	721.5	712.2	702.8	693.5	684.2	674.8	665.5
37.5°	756.9	751.8	746.7	741.6	736.5	725.6	714.7	703.8	692.9	682.1	671.2
40°	780.4	774.4	768.4	762.4	756.4	743.6	730.9	718.1	705.3	692.6	679.8
42.5°	808.8	801.7	794.6	787.5	780.4	765.5	750.6	735.8	720.9	706.0	691.1
45°	843.9	836.0	828.2	820.3	812.4	794.6	776.9	759.1	741.3	723.6	705.8
47.5°	883.8	874.7	865.6	856.5	847.4	826.9	806.3	785.8	765.2	744.7	724.1
50°	930.5	920.0	909.4	898.9	888.3	864.7	841.0	817.4	793.7	770.1	746.4
52.5°	982.5	970.9	959.4	947.8	936.3	909.1	881.9	854.7	827.5	800.3	773.1
55°	1039.0	1026.6	1014.2	1001.7	989.3	958.3	927.3	896.4	865.4	834.4	803.4
57.5°	1096.5	1083.2	1069.8	1056.5	1043.2	1008.9	974.6	940.3	906.0	871.7	837.4
60°	1150.8	1137.2	1123.5	1109.9	1096.2	1058.8	1021.4	983.9	946.5	909.1	871.7
62.5°	1198.9	1185.5	1172.1	1158.6	1145.2	1105.1	1065.0	1024.9	984.8	944.8	904.7
65°	1237.5	1224.4	1211.3	1198.2	1185.1	1143.0	1100.9	1058.9	1016.8	974.7	932.6
67.5°	1258.3	1245.7	1233.2	1220.6	1208.1	1165.2	1122.4	1079.5	1036.7	993.8	951.0
70°	1259.2	1247.4	1235.6	1223.9	1212.1	1169.4	1126.6	1083.9	1041.1	998.4	955.6
72.5°	1236.5	1225.4	1214.3	1203.2	1192.1	1150.8	1109.5	1068.2	1026.9	985.6	944.3
75°	1190.4	1180.1	1169.8	1159.4	1149.1	1110.1	1071.2	1032.2	993.2	954.3	915.3
77.5°	1124.8	1115.2	1105.5	1095.9	1086.2	1050.2	1014.2	978.3	942.3	906.3	870.3
80°	1040.7	1031.6	1022.5	1013.4	1004.3	971.8	939.2	906.7	874.2	841.6	809.1
82.5°	948.0	939.3	930.6	922.0	913.3	884.7	856.0	827.4	798.7	770.1	741.4
85°	854.4	846.4	838.4	830.4	822.4	797.2	772.0	746.8	721.6	696.4	671.2
87.5°	768.2	761.8	755.4	748.9	742.5	719.5	696.5	673.5	650.5	627.6	604.6
90°	687.5	681.5	675.5	669.5	663.5	643.3	623.1	602.9	582.7	562.4	542.2
92.5°	624.2	618.6	612.9	607.3	601.6	583.7	565.8	548.0	530.1	512.2	494.3
95°	575.0	569.9	564.8	559.7	554.6	538.2	521.7	505.3	488.9	472.4	456.0
97.5°	536.2	531.3	526.4	521.5	516.6	501.2	485.7	470.3	454.9	439.4	424.0
100°	505.3	500.6	495.9	491.3	486.6	471.7	456.8	442.0	427.1	412.2	397.3
102.5°	479.3	474.7	470.0	465.4	460.7	446.3	431.8	417.4	403.0	388.5	374.1
105°	459.4	455.0	450.6	446.1	441.7	427.4	413.1	398.7	384.4	370.1	355.8
107.5°	441.9	437.4	432.8	428.3	423.7	409.6	395.5	381.4	367.3	353.2	339.1
110°	425.4	420.7	416.0	411.4	406.7	392.7	378.7	364.7	350.7	336.8	322.8



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	410.8	406.0	401.3	396.5	391.7	377.7	363.7	349.7	335.7	321.8	307.8
115°	394.7	389.7	384.7	379.7	374.7	360.7	346.7	332.7	318.7	304.8	290.8
117.5°	377.1	372.0	366.9	361.8	356.7	342.6	328.5	314.4	300.3	286.2	272.1
120°	358.2	353.1	348.0	342.9	337.8	323.9	310.0	296.1	282.2	268.4	254.5
122.5°	336.2	331.1	326.0	320.9	315.8	302.5	289.2	275.8	262.5	249.2	235.9
125°	311.8	306.8	301.8	296.8	291.8	279.1	266.5	253.8	241.2	228.5	215.9
127.5°	285.5	280.8	276.1	271.5	266.8	255.0	243.3	231.5	219.7	208.0	196.2
130°	257.0	252.5	247.9	243.4	238.8	228.3	217.7	207.2	196.6	186.1	175.5
132.5°	230.2	226.1	222.0	217.9	213.8	203.7	193.6	183.5	173.4	163.3	153.2
135°	204.2	200.9	197.5	194.2	190.9	181.8	172.7	163.6	154.5	145.3	136.2
137.5°	177.8	174.6	171.3	168.1	164.9	157.2	149.6	141.9	134.2	126.6	118.9
140°	150.9	147.9	144.9	141.9	138.9	132.8	126.7	120.6	114.5	108.3	102.2
142.5°	127.9	125.9	123.9	121.9	119.9	114.6	109.2	103.9	98.6	93.2	87.9
145°	109.6	107.9	106.2	104.6	102.9	98.4	93.8	89.3	84.7	80.2	75.6
147.5°	92.2	90.9	89.6	88.2	86.9	83.0	79.1	75.3	71.4	67.5	63.6
150°	77.3	76.2	75.1	74.0	72.9	69.5	66.0	62.6	59.2	55.7	52.3
152.5°	62.6	61.7	60.8	59.9	59.0	56.2	53.4	50.7	47.9	45.1	42.3
155°	50.1	49.3	48.6	47.8	47.0	44.7	42.3	40.0	37.7	35.3	33.0
157.5°	38.2	37.7	37.1	36.6	36.0	33.9	31.8	29.7	27.6	25.4	23.3
160°	27.2	26.7	26.1	25.6	25.0	23.4	21.9	20.3	18.8	17.2	15.7
162.5°	16.3	16.0	15.7	15.3	15.0	14.2	13.4	12.7	11.9	11.1	10.3
165°	9.0	9.0	9.0	9.0	9.0	8.6	8.1	7.7	7.2	6.8	6.3
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	738.3	739.4	740.5	740.6	740.7	740.8	740.9	741.1	741.2	741.3	741.4
5°	726.1	727.3	728.5	728.9	729.4	729.8	730.3	730.7	731.2	731.6	732.1
7.5°	713.1	714.3	715.5	716.2	716.8	717.5	718.2	718.8	719.5	720.2	720.8
10°	701.6	703.1	704.5	704.8	705.2	705.5	705.8	706.2	706.5	706.8	707.2
12.5°	689.8	691.2	692.5	692.6	692.7	692.8	692.9	693.1	693.2	693.3	693.4
15°	677.4	677.9	678.5	678.6	678.7	678.8	678.9	679.1	679.2	679.3	679.4
17.5°	667.4	666.9	666.5	666.1	665.6	665.2	664.7	664.3	663.8	663.4	662.9
20°	657.5	655.5	653.5	652.5	651.5	650.5	649.5	648.5	647.5	646.5	645.5
22.5°	651.6	648.1	644.5	642.2	639.8	637.5	635.2	632.8	630.5	628.2	625.8
25°	650.3	645.4	640.5	636.4	632.3	628.2	624.1	620.0	615.9	611.8	607.7
27.5°	651.8	646.2	640.5	634.0	627.4	620.9	614.3	607.8	601.2	594.7	588.1
30°	652.1	645.3	638.5	629.8	621.2	612.5	603.9	595.2	586.6	577.9	569.3
32.5°	653.5	645.5	637.5	626.7	616.0	605.2	594.4	583.7	572.9	562.1	551.4
35°	656.2	646.8	637.5	624.4	611.3	598.2	585.1	572.0	558.9	545.8	532.7
37.5°	660.3	649.4	638.5	623.3	608.1	592.9	577.7	562.4	547.2	532.0	516.8
40°	667.0	654.3	641.5	624.4	607.3	590.2	573.1	556.0	538.9	521.8	504.7
42.5°	676.3	661.4	646.5	627.3	608.1	588.9	569.7	550.4	531.2	512.0	492.8
45°	688.0	670.3	652.5	631.2	609.9	588.6	567.3	545.9	524.6	503.3	482.0
47.5°	703.6	683.0	662.5	638.9	615.2	591.6	567.9	544.3	520.6	497.0	473.3
50°	722.8	699.1	675.5	649.1	622.7	596.2	569.8	543.4	517.0	490.5	464.1
52.5°	745.9	718.7	691.5	662.1	632.7	603.2	573.8	544.4	515.0	485.5	456.1
55°	772.5	741.5	710.5	678.0	645.4	612.9	580.4	547.8	515.3	482.8	450.2
57.5°	803.1	768.8	734.5	698.2	661.9	625.6	589.3	552.9	516.6	480.3	444.0
60°	834.2	796.8	759.4	719.3	679.2	639.2	599.1	559.0	518.9	478.9	438.8
62.5°	864.6	824.5	784.4	740.7	696.9	653.2	609.4	565.7	521.9	478.2	434.4
65°	890.6	848.5	806.4	759.2	712.0	664.8	617.6	570.5	523.3	476.1	428.9
67.5°	908.1	865.3	822.4	772.2	722.0	671.8	621.6	571.5	521.3	471.1	420.9
70°	912.9	870.1	827.4	775.2	723.0	670.8	618.6	566.5	514.3	462.1	409.9
72.5°	903.0	861.7	820.4	767.3	714.2	661.2	608.1	555.0	501.9	448.9	395.8
75°	876.3	837.4	798.4	745.9	693.4	640.9	588.4	535.8	483.3	430.8	378.3
77.5°	834.4	798.4	762.4	711.8	661.2	610.5	559.9	509.3	458.7	408.0	357.4
80°	776.6	744.0	711.5	664.2	616.9	569.6	522.3	475.0	427.7	380.4	333.1
82.5°	712.8	684.1	655.5	612.0	568.5	524.9	481.4	437.9	394.4	350.8	307.3
85°	646.0	620.8	595.6	556.1	516.5	477.0	437.5	397.9	358.4	318.9	279.3
87.5°	581.6	558.6	535.6	500.3	465.0	429.7	394.4	359.0	323.7	288.4	253.1
90°	522.0	501.8	481.6	450.0	418.3	386.7	355.1	323.4	291.8	260.2	228.5
92.5°	476.5	458.6	440.7	412.2	383.6	355.1	326.6	298.0	269.5	241.0	212.4
95°	439.6	423.1	406.7	380.4	354.1	327.8	301.5	275.1	248.8	222.5	196.2
97.5°	408.6	393.1	377.7	353.3	328.9	304.4	280.0	255.6	231.2	206.7	182.3
100°	382.5	367.6	352.7	329.7	306.7	283.8	260.8	237.8	214.8	191.9	168.9
102.5°	359.7	345.2	330.8	308.9	287.0	265.2	243.3	221.4	199.5	177.7	155.8
105°	341.4	327.1	312.8	291.7	270.6	249.5	228.4	207.3	186.2	165.1	144.0
107.5°	325.0	310.9	296.8	276.4	255.9	235.5	215.1	194.6	174.2	153.8	133.3
110°	308.8	294.8	280.8	261.1	241.5	221.8	202.2	182.5	162.9	143.2	123.6



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	293.8	279.8	265.8	246.7	227.6	208.5	189.4	170.3	151.2	132.1	113.0
115°	276.8	262.8	248.8	230.6	212.4	194.2	176.0	157.7	139.5	121.3	103.1
117.5°	258.0	243.9	229.8	212.8	195.8	178.8	161.8	144.9	127.9	110.9	93.9
120°	240.6	226.7	212.8	196.8	180.8	164.8	148.8	132.9	116.9	100.9	84.9
122.5°	222.5	209.2	195.9	181.1	166.4	151.6	136.8	122.1	107.3	92.5	77.8
125°	203.2	190.6	177.9	164.4	150.8	137.3	123.7	110.2	96.6	83.1	69.5
127.5°	184.4	172.7	160.9	148.6	136.3	123.9	111.6	99.3	87.0	74.6	62.3
130°	165.0	154.4	143.9	132.9	121.9	110.9	99.9	89.0	78.0	67.0	56.0
132.5°	143.1	133.0	122.9	113.6	104.3	94.9	85.6	76.3	67.0	57.6	48.3
135°	127.1	118.0	108.9	100.6	92.3	83.9	75.6	67.3	59.0	50.6	42.3
137.5°	111.2	103.6	95.9	88.4	80.8	73.3	65.7	58.2	50.6	43.1	35.5
140°	96.1	90.0	83.9	77.1	70.4	63.6	56.8	50.1	43.3	36.5	29.8
142.5°	82.6	77.2	71.9	65.9	59.9	53.9	47.9	42.0	36.0	30.0	24.0
145°	71.1	66.5	62.0	56.7	51.3	46.0	40.7	35.3	30.0	24.7	19.3
147.5°	59.8	55.9	52.0	47.4	42.9	38.3	33.8	29.2	24.7	20.1	15.6
150°	48.9	45.4	42.0	38.3	34.7	31.0	27.3	23.7	20.0	16.3	12.7
152.5°	39.6	36.8	34.0	31.1	28.2	25.3	22.4	19.6	16.7	13.8	10.9
155°	30.7	28.3	26.0	23.8	21.6	19.3	17.1	14.9	12.7	10.4	8.2
157.5°	21.2	19.1	17.0	15.6	14.1	12.7	11.2	9.8	8.3	6.9	5.4
160°	14.1	12.6	11.0	10.1	9.2	8.3	7.4	6.6	5.7	4.8	3.9
162.5°	9.6	8.8	8.0	7.3	6.7	6.0	5.3	4.7	4.0	3.3	2.7
165°	5.9	5.4	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.7	2.3
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	741.5	743.6	745.7	747.8	749.9	752.0	754.1	756.2	758.3	760.4	760.2
5°	732.5	735.2	737.8	740.5	743.1	745.8	748.4	751.1	753.7	756.4	757.0
7.5°	721.5	724.5	727.5	730.5	733.5	736.4	739.4	742.4	745.4	748.4	749.8
10°	707.5	711.1	714.6	718.2	721.7	725.3	728.8	732.4	735.9	739.5	741.6
12.5°	693.5	697.3	701.1	704.8	708.6	712.4	716.2	719.9	723.7	727.5	730.5
15°	679.5	683.4	687.3	691.2	695.1	698.9	702.8	706.7	710.6	714.5	718.4
17.5°	662.5	666.5	670.5	674.5	678.5	682.5	686.5	690.5	694.5	698.5	703.3
20°	644.5	648.5	652.5	656.5	660.5	664.5	668.5	672.5	676.5	680.5	686.1
22.5°	623.5	627.3	631.1	634.8	638.6	642.4	646.2	649.9	653.7	657.5	664.4
25°	603.6	607.3	610.9	614.6	618.2	621.9	625.5	629.2	632.8	636.5	644.2
27.5°	581.6	585.1	588.7	592.2	595.8	599.3	602.9	606.4	610.0	613.5	622.2
30°	560.6	563.6	566.6	569.6	572.6	575.6	578.6	581.6	584.6	587.6	597.4
32.5°	540.6	542.7	544.8	546.9	549.0	551.2	553.3	555.4	557.5	559.6	570.7
35°	519.6	520.8	522.0	523.3	524.5	525.7	526.9	528.2	529.4	530.6	543.1
37.5°	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	501.6	515.8
40°	487.6	485.8	484.1	482.3	480.5	478.8	477.0	475.2	473.5	471.7	487.7
42.5°	473.6	469.8	466.1	462.3	458.5	454.8	451.0	447.2	443.5	439.7	457.8
45°	460.7	455.0	449.4	443.7	438.0	432.4	426.7	421.0	415.4	409.7	429.8
47.5°	449.7	441.8	433.9	426.0	418.1	410.3	402.4	394.5	386.6	378.7	400.8
50°	437.7	427.8	417.9	408.0	398.1	388.3	378.4	368.5	358.6	348.7	372.9
52.5°	426.7	414.8	402.9	391.1	379.2	367.3	355.4	343.6	331.7	319.8	346.0
55°	417.7	403.7	389.7	375.7	361.7	347.8	333.8	319.8	305.8	291.8	320.0
57.5°	407.7	391.7	375.7	359.7	343.7	327.8	311.8	295.8	279.8	263.8	294.1
60°	398.7	380.4	362.1	343.7	325.4	307.1	288.8	270.4	252.1	233.8	266.6
62.5°	390.7	370.4	350.1	329.7	309.4	289.1	268.8	248.4	228.1	207.8	242.7
65°	381.7	359.6	337.5	315.4	293.3	271.3	249.2	227.1	205.0	182.9	219.6
67.5°	370.7	347.1	323.4	299.8	276.1	252.5	228.8	205.2	181.5	157.9	196.3
70°	357.7	332.9	308.2	283.4	258.7	233.9	209.2	184.4	159.7	134.9	174.5
72.5°	342.7	317.1	291.4	265.8	240.1	214.5	188.8	163.2	137.5	111.9	152.4
75°	325.8	299.7	273.6	247.5	221.4	195.3	169.2	143.1	117.0	90.9	131.9
77.5°	306.8	280.7	254.6	228.5	202.4	176.3	150.2	124.1	98.0	71.9	112.7
80°	285.8	259.9	234.1	208.2	182.3	156.5	130.6	104.7	78.9	53.0	93.1
82.5°	263.8	238.6	213.4	188.2	163.0	137.8	112.6	87.4	62.2	37.0	75.9
85°	239.8	215.6	191.4	167.2	143.0	118.8	94.6	70.4	46.2	22.0	59.4
87.5°	217.8	194.6	171.4	148.2	125.0	101.8	78.6	55.4	32.2	9.0	44.5
90°	196.9	175.0	153.1	131.3	109.4	87.5	65.6	43.8	21.9	0.0	33.3
92.5°	183.9	163.5	143.0	122.6	102.2	81.7	61.3	40.9	20.4	0.0	30.9
95°	169.9	151.0	132.1	113.3	94.4	75.5	56.6	37.8	18.9	0.0	28.4
97.5°	157.9	140.4	122.8	105.3	87.7	70.2	52.6	35.1	17.5	0.0	25.9
100°	145.9	129.7	113.5	97.3	81.1	64.8	48.6	32.4	16.2	0.0	23.6
102.5°	133.9	119.0	104.1	89.3	74.4	59.5	44.6	29.8	14.9	0.0	21.5
105°	122.9	109.2	95.6	81.9	68.3	54.6	41.0	27.3	13.7	0.0	19.7
107.5°	112.9	100.4	87.8	75.3	62.7	50.2	37.6	25.1	12.5	0.0	17.9
110°	103.9	92.4	80.8	69.3	57.7	46.2	34.6	23.1	11.5	0.0	16.1



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	93.9	83.5	73.0	62.6	52.2	41.7	31.3	20.9	10.4	0.0	14.7
115°	84.9	75.6	66.3	56.9	47.6	38.3	29.0	19.6	10.3	1.0	14.2
117.5°	76.9	68.5	60.0	51.6	43.2	34.7	26.3	17.9	9.4	1.0	12.9
120°	68.9	61.4	53.8	46.3	38.7	31.2	23.6	16.1	8.5	1.0	11.8
122.5°	63.0	56.1	49.2	42.3	35.4	28.6	21.7	14.8	7.9	1.0	10.5
125°	56.0	49.9	43.8	37.7	31.6	25.4	19.3	13.2	7.1	1.0	9.3
127.5°	50.0	44.6	39.1	33.7	28.2	22.8	17.3	11.9	6.4	1.0	8.0
130°	45.0	40.1	35.2	30.3	25.4	20.6	15.7	10.8	5.9	1.0	6.7
132.5°	39.0	34.8	30.6	26.3	22.1	17.9	13.7	9.4	5.2	1.0	5.6
135°	34.0	30.3	26.7	23.0	19.3	15.7	12.0	8.3	4.7	1.0	4.4
137.5°	28.0	25.0	22.0	19.0	16.0	13.0	10.0	7.0	4.0	1.0	3.4
140°	23.0	20.6	18.1	15.7	13.2	10.8	8.3	5.9	3.4	1.0	2.7
142.5°	18.0	16.1	14.2	12.3	10.4	8.6	6.7	4.8	2.9	1.0	2.1
145°	14.0	12.6	11.1	9.7	8.2	6.8	5.3	3.9	2.4	1.0	1.7
147.5°	11.0	9.9	8.8	7.7	6.6	5.4	4.3	3.2	2.1	1.0	1.4
150°	9.0	8.1	7.2	6.3	5.4	4.6	3.7	2.8	1.9	1.0	1.3
152.5°	8.0	7.2	6.4	5.7	4.9	4.1	3.3	2.6	1.8	1.0	1.2
155°	6.0	5.4	4.9	4.3	3.8	3.2	2.7	2.1	1.6	1.0	1.1
157.5°	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	1.0
160°	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2	1.0	1.0
162.5°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.0
165°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	0.9
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	760.0	759.7	759.5	759.3	759.1	758.8	758.6	758.4	759.0	759.5	760.1
5°	757.5	758.1	758.6	759.2	759.7	760.3	760.8	761.4	762.6	763.8	765.1
7.5°	751.3	752.7	754.2	755.6	757.1	758.5	760.0	761.4	763.3	765.2	767.1
10°	743.7	745.8	747.9	750.0	752.1	754.2	756.3	758.4	761.2	764.0	766.7
12.5°	733.5	736.5	739.5	742.4	745.4	748.4	751.4	754.4	758.1	761.7	765.4
15°	722.3	726.1	730.0	733.9	737.8	741.6	745.5	749.4	754.0	758.5	763.1
17.5°	708.1	712.8	717.6	722.4	727.2	731.9	736.7	741.5	747.3	753.0	758.8
20°	691.6	697.2	702.7	708.3	713.8	719.4	724.9	730.5	737.6	744.7	751.8
22.5°	671.3	678.2	685.1	691.9	698.8	705.7	712.6	719.5	728.5	737.5	746.5
25°	651.8	659.5	667.2	674.8	682.5	690.2	697.8	705.5	716.9	728.4	739.8
27.5°	630.8	639.5	648.2	656.8	665.5	674.2	682.8	691.5	705.4	719.3	733.1
30°	607.1	616.9	626.7	636.4	646.2	656.0	665.7	675.5	691.9	708.4	724.8
32.5°	581.8	592.9	604.0	615.1	626.2	637.3	648.4	659.5	678.6	697.7	716.8
35°	555.7	568.2	580.8	593.3	605.9	618.4	631.0	643.5	665.0	686.6	708.1
37.5°	530.0	544.2	558.4	572.7	586.9	601.1	615.3	629.5	653.6	677.7	701.8
40°	503.7	519.6	535.6	551.6	567.6	583.5	599.5	615.5	642.3	669.0	695.8
42.5°	475.9	494.0	512.1	530.2	548.3	566.4	584.5	602.6	632.0	661.4	690.9
45°	449.9	470.0	490.1	510.2	530.3	550.4	570.5	590.6	623.0	655.4	687.8
47.5°	422.9	445.0	467.1	489.2	511.3	533.4	555.5	577.6	613.5	649.3	685.2
50°	397.1	421.3	445.5	469.8	494.0	518.2	542.4	566.6	606.0	645.4	684.8
52.5°	372.2	398.4	424.6	450.8	477.0	503.2	529.4	555.6	599.0	642.4	685.8
55°	348.2	376.4	404.6	432.8	461.0	489.2	517.4	545.6	593.5	641.3	689.2
57.5°	324.4	354.7	385.0	415.4	445.7	476.0	506.3	536.6	589.1	641.6	694.2
60°	299.3	332.1	364.8	397.6	430.3	463.1	495.8	528.6	586.2	643.8	701.5
62.5°	277.5	312.4	347.3	382.1	417.0	451.9	486.7	521.6	584.1	646.6	709.1
65°	256.4	293.1	329.9	366.6	403.4	440.1	476.9	513.6	580.8	648.0	715.1
67.5°	234.7	273.1	311.5	350.0	388.4	426.8	465.2	503.6	575.2	646.8	718.5
70°	214.2	253.8	293.4	333.1	372.7	412.3	452.0	491.6	566.1	640.6	715.1
72.5°	192.9	233.5	274.0	314.5	355.0	395.6	436.1	476.6	552.4	628.3	704.1
75°	172.9	213.8	254.8	295.8	336.8	377.7	418.7	459.7	534.9	610.0	685.2
77.5°	153.4	194.2	234.9	275.7	316.4	357.2	397.9	438.7	511.5	584.4	657.2
80°	133.2	173.2	213.3	253.4	293.5	333.5	373.6	413.7	482.6	551.6	620.5
82.5°	114.7	153.6	192.4	231.3	270.1	309.0	347.8	386.7	450.9	515.1	579.2
85°	96.8	134.2	171.6	209.1	246.5	283.9	321.3	358.7	417.5	476.4	535.2
87.5°	80.1	115.6	151.1	186.7	222.2	257.7	293.3	328.8	382.1	435.4	488.7
90°	66.6	99.9	133.2	166.6	199.9	233.2	266.5	299.8	348.1	396.4	444.7
92.5°	61.7	92.6	123.5	154.3	185.2	216.1	246.9	277.8	321.7	365.5	409.4
95°	56.8	85.3	113.7	142.1	170.5	199.0	227.4	255.8	296.2	336.6	377.0
97.5°	51.7	77.6	103.5	129.3	155.2	181.1	206.9	232.8	270.6	308.3	346.1
100°	47.3	70.9	94.6	118.2	141.9	165.5	189.2	212.8	248.3	283.9	319.4
102.5°	43.1	64.6	86.2	107.7	129.3	150.8	172.4	193.9	227.5	261.2	294.8
105°	39.3	59.0	78.6	98.3	117.9	137.6	157.2	176.9	208.9	240.9	272.8
107.5°	35.8	53.6	71.5	89.4	107.3	125.1	143.0	160.9	191.9	222.9	253.8
110°	32.2	48.3	64.4	80.5	96.6	112.7	128.8	144.9	174.5	204.2	233.8



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	29.3	44.0	58.6	73.3	87.9	102.6	117.2	131.9	160.0	188.1	216.2
115°	27.4	40.6	53.8	67.1	80.3	93.5	106.7	119.9	146.7	173.4	200.2
117.5°	24.8	36.6	48.5	60.4	72.3	84.1	96.0	107.9	133.4	159.0	184.5
120°	22.5	33.3	44.1	54.8	65.6	76.4	87.1	97.9	121.7	145.4	169.2
122.5°	20.1	29.6	39.2	48.7	58.3	67.8	77.4	86.9	108.8	130.7	152.5
125°	17.6	26.0	34.3	42.6	50.9	59.3	67.6	75.9	96.2	116.5	136.9
127.5°	15.0	22.0	29.0	36.0	43.0	50.0	57.0	64.0	82.8	101.5	120.3
130°	12.3	18.0	23.7	29.3	35.0	40.7	46.3	52.0	68.9	85.7	102.6
132.5°	10.1	14.7	19.2	23.8	28.3	32.9	37.4	42.0	56.9	71.8	86.6
135°	7.9	11.3	14.8	18.2	21.7	25.1	28.6	32.0	45.1	58.2	71.3
137.5°	5.9	8.3	10.8	13.2	15.7	18.1	20.6	23.0	34.4	45.9	57.3
140°	4.3	6.0	7.7	9.3	11.0	12.7	14.3	16.0	25.8	35.5	45.3
142.5°	3.2	4.3	5.4	6.6	7.7	8.8	9.9	11.0	19.2	27.4	35.6
145°	2.3	3.0	3.7	4.3	5.0	5.7	6.3	7.0	13.7	20.3	27.0
147.5°	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.0	10.2	15.4	20.7
150°	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	7.8	11.6	15.3
152.5°	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.0	5.7	8.3	11.0
155°	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	3.6	5.1	6.7
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.8	3.7
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.7	2.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	760.6	761.2	761.7	762.3	762.8	763.4	763.6	763.8	764.1	764.3	764.5
5°	766.3	767.5	768.7	770.0	771.2	772.4	773.1	773.7	774.4	775.1	775.7
7.5°	769.0	770.8	772.7	774.6	776.5	778.4	779.7	781.1	782.4	783.7	785.1
10°	769.5	772.3	775.1	777.8	780.6	783.4	785.5	787.6	789.7	791.8	794.0
12.5°	769.1	772.7	776.4	780.1	783.7	787.4	790.3	793.2	796.1	799.0	801.8
15°	767.6	772.2	776.7	781.3	785.8	790.4	794.2	798.0	801.7	805.5	809.3
17.5°	764.6	770.3	776.1	781.9	787.6	793.4	798.5	803.6	808.7	813.8	819.0
20°	758.9	766.0	773.1	780.2	787.3	794.4	801.6	808.8	816.1	823.3	830.5
22.5°	755.5	764.4	773.4	782.4	791.4	800.4	809.1	817.7	826.4	835.1	843.7
25°	751.2	762.7	774.1	785.5	797.0	808.4	818.3	828.2	838.0	847.9	857.8
27.5°	747.0	760.9	774.8	788.6	802.5	816.4	827.5	838.6	849.7	860.8	871.9
30°	741.2	757.7	774.1	790.5	807.0	823.4	835.9	848.5	861.0	873.6	886.1
32.5°	735.9	755.0	774.1	793.2	812.3	831.4	845.5	859.6	873.7	887.8	901.9
35°	729.7	751.2	772.8	794.3	815.9	837.4	853.7	870.0	886.4	902.7	919.0
37.5°	725.9	750.0	774.1	798.2	822.3	846.4	864.9	883.5	902.0	920.6	939.1
40°	722.6	749.3	776.1	802.9	829.6	856.4	877.7	899.0	920.3	941.6	963.0
42.5°	720.3	749.7	779.1	808.6	838.0	867.4	892.2	916.9	941.7	966.4	991.2
45°	720.2	752.7	785.1	817.5	849.9	882.3	910.7	939.2	967.6	996.0	1024.5
47.5°	721.0	756.9	792.7	828.6	864.4	900.3	932.7	965.1	997.6	1030.0	1062.4
50°	724.2	763.7	803.1	842.5	881.9	921.3	958.9	996.6	1034.2	1071.9	1109.5
52.5°	729.2	772.7	816.1	859.5	902.9	946.3	988.3	1030.2	1072.2	1114.2	1156.1
55°	737.0	784.9	832.7	880.6	928.4	976.3	1023.3	1070.2	1117.2	1164.2	1211.1
57.5°	746.7	799.2	851.7	904.3	956.8	1009.3	1060.9	1112.5	1164.2	1215.8	1267.4
60°	759.1	816.7	874.3	932.0	989.6	1047.2	1103.5	1159.8	1216.1	1272.4	1328.7
62.5°	771.6	834.2	896.7	959.2	1021.7	1084.2	1143.3	1202.3	1261.4	1320.5	1379.5
65°	782.3	849.5	916.7	983.8	1051.0	1118.2	1179.8	1241.4	1303.1	1364.7	1426.3
67.5°	790.1	861.7	933.3	1005.0	1076.6	1148.2	1210.6	1273.0	1335.4	1397.8	1460.1
70°	789.6	864.1	938.6	1013.1	1087.6	1162.1	1224.4	1286.7	1349.0	1411.3	1473.5
72.5°	779.9	855.8	931.6	1007.4	1083.3	1159.1	1219.9	1280.8	1341.6	1402.5	1463.3
75°	760.4	835.5	910.7	985.9	1061.0	1136.2	1194.6	1253.0	1311.4	1369.8	1428.2
77.5°	730.0	802.9	875.7	948.5	1021.4	1094.2	1149.0	1203.9	1258.7	1313.6	1368.4
80°	689.5	758.4	827.4	896.3	965.3	1034.2	1084.7	1135.2	1185.8	1236.3	1286.8
82.5°	643.4	707.6	771.8	835.9	900.1	964.3	1010.2	1056.0	1101.9	1147.7	1193.6
85°	594.1	652.9	711.8	770.6	829.5	888.3	929.8	971.4	1012.9	1054.4	1096.0
87.5°	542.0	595.2	648.5	701.8	755.1	808.4	845.5	882.6	919.7	956.8	993.8
90°	493.0	541.3	589.6	637.9	686.2	734.5	768.0	801.5	835.1	868.6	902.1
92.5°	453.2	497.1	540.9	584.8	628.6	672.5	703.5	734.5	765.4	796.4	827.4
95°	417.4	457.9	498.3	538.7	579.1	619.5	648.7	677.9	707.1	736.3	765.5
97.5°	383.8	421.6	459.3	497.1	534.8	572.6	600.0	627.4	654.9	682.3	709.7
100°	354.9	390.5	426.0	461.5	497.1	532.6	559.1	585.7	612.2	638.7	665.3
102.5°	328.4	362.1	395.7	429.3	463.0	496.6	522.6	548.6	574.6	600.6	626.5
105°	304.8	336.8	368.8	400.7	432.7	464.7	490.2	515.8	541.3	566.8	592.4
107.5°	284.8	315.8	346.8	377.7	408.7	439.7	464.5	489.2	514.0	538.7	563.5
110°	263.5	293.1	322.8	352.4	382.1	411.7	436.1	460.5	485.0	509.4	533.8



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	244.3	272.3	300.4	328.5	356.6	384.7	408.6	432.5	456.3	480.2	504.1
115°	226.9	253.7	280.4	307.2	333.9	360.7	383.5	406.2	429.0	451.8	474.5
117.5°	210.1	235.6	261.2	286.7	312.3	337.8	359.6	381.3	403.1	424.8	446.6
120°	193.0	216.7	240.5	264.3	288.0	311.8	333.0	354.2	375.4	396.6	417.8
122.5°	174.4	196.3	218.2	240.0	261.9	283.8	304.7	325.6	346.4	367.3	388.2
125°	157.2	177.5	197.8	218.2	238.5	258.8	278.6	298.3	318.1	337.9	357.6
127.5°	139.0	157.8	176.5	195.3	214.0	232.8	251.0	269.2	287.4	305.6	323.9
130°	119.5	136.3	153.2	170.1	186.9	203.8	220.6	237.3	254.1	270.9	287.6
132.5°	101.5	116.4	131.3	146.1	161.0	175.9	191.8	207.7	223.5	239.4	255.3
135°	84.4	97.5	110.6	123.7	136.8	149.9	165.0	180.1	195.2	210.3	225.4
137.5°	68.7	80.2	91.6	103.0	114.5	125.9	139.8	153.7	167.5	181.4	195.3
140°	55.1	64.8	74.6	84.4	94.1	103.9	115.7	127.4	139.2	151.0	162.7
142.5°	43.8	52.1	60.3	68.5	76.7	84.9	94.9	104.9	114.9	124.9	134.9
145°	33.7	40.3	47.0	53.7	60.3	67.0	75.4	83.9	92.3	100.7	109.2
147.5°	25.9	31.1	36.3	41.6	46.8	52.0	59.0	66.0	73.0	80.0	86.9
150°	19.1	22.9	26.7	30.4	34.2	38.0	43.8	49.5	55.3	61.1	66.8
152.5°	13.7	16.3	19.0	21.7	24.3	27.0	31.4	35.9	40.3	44.8	49.2
155°	8.2	9.8	11.3	12.9	14.4	16.0	19.6	23.1	26.7	30.2	33.8
157.5°	4.6	5.4	6.3	7.2	8.1	9.0	11.4	13.9	16.3	18.8	21.2
160°	2.3	2.7	3.0	3.3	3.7	4.0	5.4	6.9	8.3	9.8	11.2
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.7	2.3	3.0	3.7	4.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4	749.4
2.5°	764.7	765.0	765.2	765.4	764.6	763.8	763.1	762.3	761.5	760.7	760.0
5°	776.4	777.1	777.7	778.4	778.2	778.0	777.7	777.5	777.3	777.1	776.8
7.5°	786.4	787.7	789.1	790.4	790.5	790.6	790.7	790.8	791.0	791.1	791.2
10°	796.1	798.2	800.3	802.4	802.6	802.8	803.1	803.3	803.5	803.7	804.0
12.5°	804.7	807.6	810.5	813.4	814.0	814.5	815.1	815.6	816.2	816.7	817.3
15°	813.1	816.8	820.6	824.4	825.5	826.6	827.7	828.8	830.0	831.1	832.2
17.5°	824.1	829.2	834.3	839.4	841.3	843.2	845.1	847.0	848.8	850.7	852.6
20°	837.7	845.0	852.2	859.4	861.7	864.0	866.4	868.7	871.0	873.3	875.7
22.5°	852.4	861.1	869.7	878.4	881.1	883.7	886.4	889.0	891.7	894.3	897.0
25°	867.7	877.5	887.4	897.3	900.4	903.5	906.6	909.7	912.9	916.0	919.1
27.5°	883.0	894.1	905.2	916.3	920.2	924.1	928.0	931.9	935.7	939.6	943.5
30°	898.7	911.2	923.8	936.3	941.0	945.6	950.3	955.0	959.6	964.3	969.0
32.5°	916.0	930.1	944.2	958.3	963.7	969.2	974.6	980.1	985.5	991.0	996.4
35°	935.3	951.7	968.0	984.3	990.8	997.4	1003.9	1010.5	1017.0	1023.6	1030.1
37.5°	957.7	976.2	994.8	1013.3	1021.4	1029.5	1037.6	1045.7	1053.8	1061.9	1070.0
40°	984.3	1005.6	1026.9	1048.2	1057.9	1067.5	1077.2	1086.9	1096.5	1106.2	1115.9
42.5°	1015.9	1040.7	1065.4	1090.2	1101.3	1112.4	1123.5	1134.6	1145.7	1156.8	1167.9
45°	1052.9	1081.3	1109.8	1138.2	1151.0	1163.7	1176.5	1189.3	1202.0	1214.8	1227.6
47.5°	1094.8	1127.3	1159.7	1192.1	1207.2	1222.3	1237.4	1252.5	1267.6	1282.7	1297.8
50°	1147.2	1184.8	1222.5	1260.1	1276.6	1293.2	1309.7	1326.3	1342.8	1359.4	1375.9
52.5°	1198.1	1240.1	1282.0	1324.0	1342.9	1361.8	1380.6	1399.5	1418.4	1437.3	1456.1
55°	1258.1	1305.1	1352.0	1399.0	1419.3	1439.6	1459.9	1480.2	1500.6	1520.9	1541.2
57.5°	1319.0	1370.7	1422.3	1473.9	1495.6	1517.2	1538.9	1560.5	1582.2	1603.8	1625.5
60°	1385.0	1441.3	1497.6	1553.9	1575.4	1597.0	1618.5	1640.0	1661.6	1683.1	1704.6
62.5°	1438.6	1497.7	1556.7	1615.8	1637.9	1660.0	1682.1	1704.2	1726.3	1748.4	1770.5
65°	1487.9	1549.6	1611.2	1672.8	1694.0	1715.2	1736.4	1757.6	1778.8	1800.0	1821.2
67.5°	1522.5	1584.9	1647.3	1709.7	1730.1	1750.6	1771.0	1791.4	1811.9	1832.3	1852.7
70°	1535.8	1598.1	1660.4	1722.7	1741.8	1760.9	1780.0	1799.1	1818.2	1837.3	1856.4
72.5°	1524.2	1585.0	1645.9	1706.7	1725.0	1743.3	1761.7	1780.0	1798.3	1816.6	1835.0
75°	1486.6	1545.0	1603.4	1661.8	1679.1	1696.4	1713.8	1731.1	1748.4	1765.7	1783.1
77.5°	1423.3	1478.1	1533.0	1587.8	1604.2	1620.7	1637.1	1653.5	1670.0	1686.4	1702.8
80°	1337.3	1387.9	1438.4	1488.9	1504.7	1520.4	1536.2	1552.0	1567.7	1583.5	1599.3
82.5°	1239.4	1285.3	1331.1	1377.0	1392.0	1407.0	1422.0	1437.0	1451.9	1466.9	1481.9
85°	1137.5	1179.0	1220.6	1262.1	1275.8	1289.4	1303.1	1316.7	1330.4	1344.0	1357.7
87.5°	1030.9	1068.0	1105.1	1142.2	1155.5	1168.8	1182.2	1195.5	1208.8	1222.1	1235.5
90°	935.6	969.2	1002.7	1036.2	1048.9	1061.5	1074.2	1086.8	1099.5	1112.1	1124.8
92.5°	858.4	889.3	920.3	951.3	963.0	974.6	986.3	997.9	1009.6	1021.2	1032.9
95°	794.7	823.9	853.1	882.3	893.0	903.6	914.3	925.0	935.6	946.3	957.0
97.5°	737.1	764.6	792.0	819.4	829.8	840.3	850.7	861.1	871.6	882.0	892.4
100°	691.8	718.3	744.9	771.4	781.5	791.6	801.7	811.8	822.0	832.1	842.2
102.5°	652.5	678.5	704.5	730.5	740.4	750.3	760.1	770.0	779.9	789.8	799.6
105°	617.9	643.4	669.0	694.5	704.4	714.3	724.1	734.0	743.9	753.8	763.6
107.5°	588.2	613.0	637.7	662.5	672.3	682.0	691.8	701.6	711.3	721.1	730.9
110°	558.2	582.7	607.1	631.5	641.1	650.6	660.2	669.7	679.3	688.8	698.4



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	528.0	551.8	575.7	599.6	609.1	618.7	628.2	637.8	647.3	656.9	666.4
115°	497.3	520.1	542.8	565.6	575.0	584.5	593.9	603.3	612.8	622.2	631.6
117.5°	468.3	490.1	511.8	533.6	542.5	551.4	560.2	569.1	578.0	586.9	595.7
120°	439.0	460.2	481.4	502.6	511.0	519.5	527.9	536.4	544.8	553.3	561.7
122.5°	409.1	429.9	450.8	471.7	479.9	488.1	496.3	504.5	512.8	521.0	529.2
125°	377.4	397.2	416.9	436.7	445.0	453.3	461.7	470.0	478.3	486.6	495.0
127.5°	342.1	360.3	378.5	396.7	404.9	413.1	421.4	429.6	437.8	446.0	454.3
130°	304.4	321.2	337.9	354.7	362.1	369.6	377.0	384.5	391.9	399.4	406.8
132.5°	271.2	287.0	302.9	318.8	325.0	331.2	337.4	343.6	349.9	356.1	362.3
135°	240.5	255.6	270.7	285.8	291.1	296.5	301.8	307.1	312.5	317.8	323.1
137.5°	209.2	223.0	236.9	250.8	256.0	261.2	266.5	271.7	276.9	282.1	287.4
140°	174.5	186.3	198.0	209.8	215.6	221.4	227.1	232.9	238.7	244.5	250.2
142.5°	144.9	154.9	164.9	174.9	180.3	185.8	191.2	196.6	202.1	207.5	212.9
145°	117.6	126.0	134.5	142.9	148.3	153.8	159.2	164.7	170.1	175.6	181.0
147.5°	93.9	100.9	107.9	114.9	120.1	125.3	130.6	135.8	141.0	146.2	151.5
150°	72.6	78.4	84.1	89.9	94.8	99.7	104.6	109.5	114.3	119.2	124.1
152.5°	53.7	58.1	62.6	67.0	71.7	76.3	81.0	85.6	90.3	94.9	99.6
155°	37.3	40.9	44.4	48.0	52.1	56.2	60.3	64.4	68.5	72.6	76.7
157.5°	23.7	26.1	28.6	31.0	34.4	37.9	41.3	44.8	48.2	51.7	55.1
160°	12.7	14.1	15.6	17.0	19.8	22.6	25.3	28.1	30.9	33.7	36.4
162.5°	5.0	5.7	6.3	7.0	8.8	10.6	12.3	14.1	15.9	17.7	19.4
165°	0.7	0.8	0.9	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
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: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	749.4	749.4
2.5°	759.2	758.4
5°	776.6	776.4
7.5°	791.3	791.4
10°	804.2	804.4
12.5°	817.8	818.4
15°	833.3	834.4
17.5°	854.5	856.4
20°	878.0	880.3
22.5°	899.6	902.3
25°	922.2	925.3
27.5°	947.4	951.3
30°	973.6	978.3
32.5°	1001.9	1007.3
35°	1036.7	1043.2
37.5°	1078.1	1086.2
40°	1125.5	1135.2
42.5°	1179.0	1190.1
45°	1240.3	1253.1
47.5°	1312.9	1328.0
50°	1392.5	1409.0
52.5°	1475.0	1493.9
55°	1561.5	1581.8
57.5°	1647.1	1668.8
60°	1726.2	1747.7
62.5°	1792.6	1814.7
65°	1842.4	1863.6
67.5°	1873.2	1893.6
70°	1875.5	1894.6
72.5°	1853.3	1871.6
75°	1800.4	1817.7
77.5°	1719.3	1735.7
80°	1615.0	1630.8
82.5°	1496.9	1511.9
85°	1371.3	1385.0
87.5°	1248.8	1262.1
90°	1137.4	1150.1
92.5°	1044.5	1056.2
95°	967.6	978.3
97.5°	902.9	913.3
100°	852.3	862.4
102.5°	809.5	819.4
105°	773.5	783.4
107.5°	740.6	750.4
110°	707.9	717.5



TEST NUMBER: P201340

CATALOG NUMBER: 4LBLED-LD4-6-ASYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	676.0	685.5
115°	641.1	650.5
117.5°	604.6	613.5
120°	570.2	578.6
122.5°	537.4	545.6
125°	503.3	511.6
127.5°	462.5	470.7
130°	414.3	421.7
132.5°	368.5	374.7
135°	328.5	333.8
137.5°	292.6	297.8
140°	256.0	261.8
142.5°	218.4	223.8
145°	186.5	191.9
147.5°	156.7	161.9
150°	129.0	133.9
152.5°	104.2	108.9
155°	80.8	84.9
157.5°	58.6	62.0
160°	39.2	42.0
162.5°	21.2	23.0
165°	9.0	10.0
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)