

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252143

Luminaire Tested: **LE_6B15D010 EC6B10208035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2391.2 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

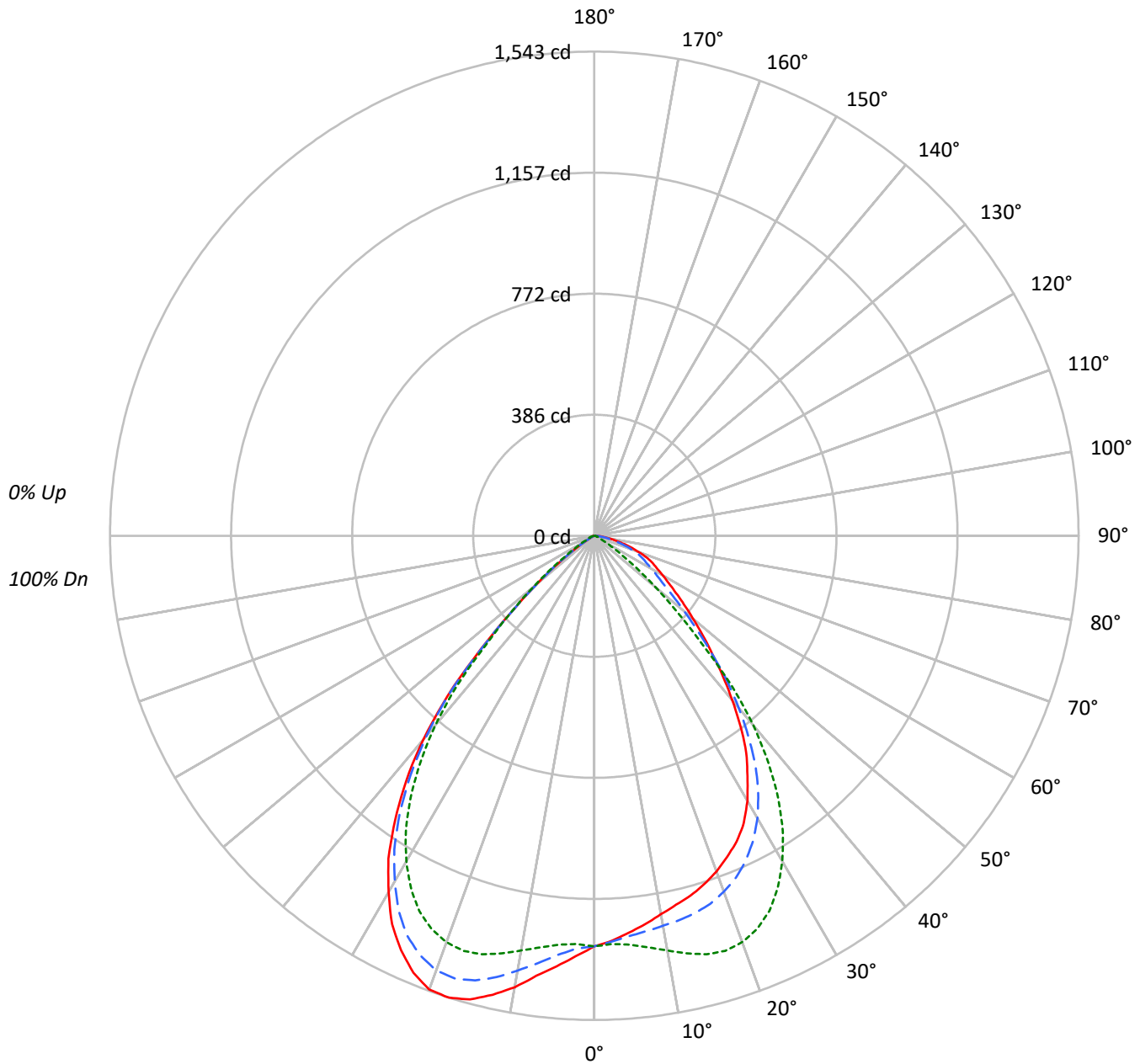
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	103	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	89	83	78	95	88	82	78	85	80	76		83	78	75		80
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	61	56	78	68	61	56	66	60	55		64	59	55		63
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85348	85348	85348
5°	83133	85674	90180
10°	81113	88904	96774
15°	80166	93262	103312
20°	79016	95685	106807
25°	77341	94984	104882
30°	73488	90257	98747
35°	67236	81380	88158
40°	58160	67204	72323
45°	49038	44084	47313
50°	41634	25516	23994
55°	36125	12227	9236
60°	32633	5715	2283
65°	31662	3273	772
70°	28403	2632	725
75°	23317	1891	302
80°	17358	939	0
85°	14971	0	0



TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	5.3
10°-20°	385.1	16.1
20°-30°	588.4	24.6
30°-40°	615.4	25.7
40°-50°	399.2	16.7
50°-60°	158.5	6.6
60°-70°	75.2	3.1
70°-80°	35.8	1.5
80°-90°	7.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1099.9	46.0
0°-40°	1715.3	71.7
0°-60°	2273.0	95.1
0°-90°	2391.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1308	1308	1308	1308	1308	
5°	1269	1281	1308	1341	1377	120
15°	1187	1244	1381	1467	1530	334
25°	1074	1142	1320	1408	1457	492
35°	844	896	1022	1082	1107	522
45°	532	526	478	506	513	414
55°	318	270	108	84	81	288
65°	205	170	21	5	5	200
75°	92	75	8	2	1	100
85°	20	12	0	0	0	23
90°	0	0	0	0	0	



TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1292.0	1294.5	1280.8	1276.9	1287.0	1290.8	1292.0	1288.2	1289.5	1294.5	1294.5
5°	1269.4	1271.9	1259.4	1255.6	1265.6	1268.1	1271.9	1270.6	1274.4	1282.0	1280.8
7.5°	1248.1	1251.9	1238.1	1233.1	1245.6	1251.9	1254.4	1254.4	1259.4	1269.4	1270.6
10°	1224.4	1229.4	1216.9	1214.4	1228.1	1234.4	1235.6	1238.1	1245.6	1259.4	1261.9
12.5°	1204.4	1209.4	1200.6	1196.9	1211.9	1218.1	1220.6	1225.6	1234.4	1251.9	1254.4
15°	1186.9	1190.6	1180.6	1178.1	1193.1	1200.6	1201.9	1209.4	1220.6	1240.6	1244.4
17.5°	1164.4	1166.9	1159.4	1156.9	1171.9	1179.4	1180.6	1189.4	1203.1	1223.1	1229.4
20°	1138.1	1140.6	1133.1	1130.6	1145.6	1154.4	1155.6	1163.1	1179.4	1200.6	1206.9
22.5°	1106.9	1111.9	1103.1	1100.6	1115.6	1123.1	1126.9	1133.1	1149.4	1170.6	1179.4
25°	1074.4	1074.4	1068.1	1066.9	1080.6	1089.4	1088.1	1096.9	1113.1	1134.4	1141.9
27.5°	1031.8	1030.5	1024.2	1023.0	1038.0	1045.5	1043.0	1051.9	1066.9	1088.1	1095.6
30°	975.5	978.0	969.2	966.8	979.2	991.8	990.5	999.2	1014.2	1034.2	1039.2
32.5°	908.0	910.5	909.2	905.5	916.8	923.0	926.8	933.0	945.5	966.8	971.8
35°	844.2	840.5	835.5	835.5	846.8	856.8	853.0	860.5	873.0	894.2	895.5
37.5°	765.4	764.1	761.6	759.1	771.6	774.1	775.4	780.4	791.6	809.1	806.6
40°	682.9	684.1	682.9	677.9	685.4	695.4	694.1	696.6	706.6	719.1	715.4
42.5°	605.4	605.4	605.4	600.4	609.1	614.1	616.6	615.4	617.9	629.1	624.1
45°	531.5	532.8	531.5	530.2	531.5	534.0	531.5	530.2	530.2	534.0	526.5
47.5°	467.8	467.8	464.0	460.2	464.0	465.2	461.5	457.8	456.5	455.2	442.8
50°	410.2	409.0	407.8	401.5	405.2	406.5	401.5	399.0	394.0	387.8	372.8
52.5°	360.2	359.0	357.8	351.5	354.0	355.2	350.2	345.1	338.9	333.9	315.1
55°	317.6	316.4	316.4	312.6	310.1	312.6	307.6	303.9	295.1	288.9	270.1
57.5°	281.4	281.4	278.9	275.1	276.4	276.4	271.4	266.4	258.9	251.4	236.4
60°	250.1	250.1	250.1	246.4	246.4	246.4	243.9	238.9	232.6	225.1	210.1
62.5°	225.1	225.1	223.9	220.1	221.4	221.4	218.9	213.9	207.6	202.6	187.6
65°	205.1	205.1	205.1	201.4	201.4	202.6	200.1	195.1	190.1	183.9	170.1
67.5°	180.1	178.9	178.9	176.4	177.6	178.9	176.4	172.6	166.4	162.6	150.1
70°	148.9	150.1	151.4	147.6	148.9	148.9	147.6	143.9	140.1	136.4	125.1
72.5°	121.4	121.4	120.1	118.9	118.9	120.1	117.6	113.8	111.2	108.8	100.0
75°	92.5	91.2	92.5	90.0	90.0	90.0	87.5	86.2	85.0	81.2	75.0
77.5°	67.5	66.2	66.2	63.8	65.0	65.0	63.8	61.2	58.8	57.5	52.5
80°	46.2	46.2	46.2	45.0	45.0	43.8	43.8	42.5	40.0	38.8	36.2
82.5°	31.2	31.2	31.2	30.0	30.0	30.0	28.8	27.5	26.2	25.0	22.5
85°	20.0	20.0	20.0	18.8	18.8	18.8	17.5	17.5	16.2	15.0	12.5
87.5°	11.2	11.2	11.2	10.0	10.0	10.0	10.0	10.0	8.8	7.5	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1303.2	1285.8	1297.0	1297.0	1293.2	1303.2	1309.5	1314.5	1313.2	1302.0	1300.8
5°	1293.2	1278.1	1290.8	1292.0	1288.2	1302.0	1310.8	1317.0	1318.2	1308.2	1309.5
7.5°	1285.8	1273.1	1289.5	1294.5	1293.2	1305.8	1315.8	1325.8	1330.8	1323.2	1324.5
10°	1282.0	1271.9	1289.5	1297.0	1298.2	1312.0	1327.0	1340.8	1347.0	1342.0	1345.8
12.5°	1276.9	1270.6	1290.8	1302.0	1307.0	1320.8	1339.5	1355.8	1365.8	1363.2	1370.8
15°	1271.9	1266.9	1290.8	1307.0	1313.2	1325.8	1347.0	1370.8	1382.0	1380.8	1390.8
17.5°	1259.4	1258.1	1283.2	1300.8	1309.5	1324.5	1344.5	1373.2	1384.5	1387.0	1399.5
20°	1239.4	1239.4	1266.9	1285.8	1295.8	1309.5	1334.5	1362.0	1375.8	1378.2	1392.0
22.5°	1211.9	1214.4	1240.6	1259.4	1274.4	1284.5	1310.8	1339.5	1352.0	1355.8	1370.8
25°	1175.6	1178.1	1203.1	1221.9	1238.1	1249.4	1274.4	1300.8	1315.8	1319.5	1330.8
27.5°	1128.1	1133.1	1156.9	1175.6	1189.4	1196.9	1223.1	1250.6	1261.9	1265.6	1276.9
30°	1073.1	1074.4	1098.1	1114.4	1128.1	1134.4	1156.9	1185.6	1194.4	1198.1	1214.4
32.5°	1005.5	1004.2	1026.8	1041.8	1053.1	1060.6	1084.4	1103.1	1111.9	1118.1	1126.9
35°	924.2	923.0	939.2	956.8	965.5	968.0	991.8	1011.8	1016.8	1021.8	1033.0
37.5°	833.0	833.0	846.8	855.5	865.5	869.2	880.5	903.0	911.8	910.5	919.2
40°	736.6	731.6	741.6	750.4	752.9	754.1	765.4	782.9	789.1	789.1	795.4
42.5°	635.4	627.9	629.1	634.1	636.6	627.9	635.4	646.6	642.9	647.9	649.1
45°	527.8	516.5	511.5	500.2	502.8	494.0	489.0	491.5	490.2	477.8	480.2
47.5°	440.2	420.2	411.5	395.2	391.5	381.5	375.2	364.0	354.0	354.0	347.6
50°	366.5	346.4	328.9	310.1	303.9	295.1	281.4	266.4	258.9	251.4	245.1
52.5°	307.6	286.4	265.1	245.1	236.4	225.1	206.4	191.4	177.6	170.1	162.6
55°	260.1	236.4	213.9	192.6	181.4	170.1	151.4	133.9	117.6	107.5	101.2
57.5°	223.9	201.4	177.6	155.1	145.1	132.6	112.5	93.8	78.8	67.5	61.2
60°	197.6	175.1	153.9	130.1	120.1	107.5	86.2	68.8	53.8	43.8	36.2
62.5°	175.1	155.1	132.6	111.2	101.2	88.8	68.8	51.2	37.5	27.5	21.2
65°	158.9	138.9	120.1	98.8	90.0	77.5	58.8	42.5	30.0	21.2	15.0
67.5°	140.1	122.6	103.8	86.2	77.5	67.5	50.0	36.2	25.0	17.5	12.5
70°	117.6	103.8	87.5	71.2	65.0	56.2	41.2	30.0	20.0	13.8	10.0
72.5°	93.8	82.5	70.0	57.5	52.5	43.8	33.8	23.8	15.0	10.0	7.5
75°	71.2	62.5	52.5	43.8	38.8	33.8	25.0	17.5	11.2	7.5	5.0
77.5°	48.8	45.0	37.5	30.0	27.5	23.8	16.2	11.2	7.5	5.0	2.5
80°	33.8	30.0	25.0	20.0	17.5	15.0	10.0	7.5	3.8	2.5	1.2
82.5°	21.2	17.5	15.0	12.5	11.2	8.8	6.2	3.8	2.5	1.2	1.2
85°	11.2	10.0	8.8	6.2	6.2	5.0	3.8	2.5	1.2	0.0	0.0
87.5°	6.2	5.0	3.8	2.5	2.5	1.2	1.2	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1315.8	1315.8	1314.5	1329.5	1312.0	1329.5	1320.8	1329.5	1317.0	1315.8	1317.0
5°	1325.8	1329.5	1330.8	1344.5	1328.2	1349.5	1342.0	1349.5	1340.8	1343.2	1347.0
7.5°	1345.8	1352.0	1350.8	1368.2	1352.0	1375.8	1370.8	1382.0	1373.2	1375.8	1380.8
10°	1368.2	1375.8	1377.0	1394.5	1379.5	1408.2	1402.0	1414.5	1407.0	1410.8	1417.0
12.5°	1394.5	1403.2	1404.5	1424.5	1408.2	1438.2	1434.5	1447.0	1440.8	1444.5	1452.0
15°	1414.5	1427.0	1429.5	1449.5	1432.0	1463.2	1460.8	1477.0	1467.0	1473.2	1479.5
17.5°	1424.5	1435.8	1440.8	1459.5	1444.5	1475.8	1473.2	1487.0	1479.5	1485.8	1493.2
20°	1418.2	1432.0	1435.8	1454.5	1439.5	1470.8	1467.0	1480.8	1473.2	1478.2	1485.8
22.5°	1395.8	1409.5	1414.5	1432.0	1418.2	1447.0	1445.8	1458.2	1448.2	1454.5	1460.8
25°	1355.8	1370.8	1373.2	1389.5	1374.5	1404.5	1402.0	1415.8	1408.2	1412.0	1420.8
27.5°	1298.2	1315.8	1319.5	1333.2	1322.0	1347.0	1347.0	1358.2	1349.5	1349.5	1358.2
30°	1229.4	1246.9	1249.4	1260.6	1250.6	1273.1	1274.4	1285.8	1271.9	1279.4	1280.8
32.5°	1145.6	1156.9	1164.4	1174.4	1159.4	1188.1	1184.4	1193.1	1185.6	1185.6	1191.9
35°	1044.2	1058.1	1061.9	1074.4	1061.9	1084.4	1084.4	1089.4	1081.9	1081.9	1091.9
37.5°	934.2	944.2	945.5	958.0	948.0	966.8	965.5	969.2	961.8	966.8	966.8
40°	805.4	812.9	815.5	821.8	820.5	834.2	833.0	835.5	831.8	833.0	835.5
42.5°	655.4	665.4	670.4	675.4	667.9	686.6	682.9	686.6	685.4	686.6	690.4
45°	482.8	490.2	494.0	495.2	492.8	504.0	512.8	505.2	506.5	504.0	509.0
47.5°	348.9	350.2	347.6	355.2	348.9	354.0	356.5	357.8	350.2	348.9	354.0
50°	238.9	245.1	236.4	240.1	238.9	243.9	241.4	242.6	235.1	238.9	236.4
52.5°	158.9	157.6	155.1	156.4	153.9	153.9	153.9	156.4	151.4	148.9	146.4
55°	96.2	93.8	88.8	87.5	87.5	88.8	86.2	83.8	83.8	82.5	82.5
57.5°	56.2	52.5	50.0	48.8	46.2	45.0	43.8	43.8	41.2	41.2	41.2
60°	31.2	27.5	25.0	22.5	22.5	21.2	20.0	18.8	18.8	18.8	17.5
62.5°	16.2	13.8	11.2	10.0	10.0	8.8	7.5	7.5	7.5	7.5	6.2
65°	11.2	8.8	7.5	6.2	6.2	5.0	5.0	5.0	5.0	5.0	5.0
67.5°	8.8	7.5	6.2	5.0	5.0	5.0	3.8	3.8	3.8	3.8	3.8
70°	7.5	5.0	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
72.5°	5.0	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252143

CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1328.2	1327.0	1328.2	1330.8	1325.8	1340.8	1333.2	1340.8
5°	1357.0	1358.2	1359.5	1363.2	1357.0	1375.8	1365.8	1377.0
7.5°	1394.5	1395.8	1397.0	1400.8	1397.0	1415.8	1404.5	1414.5
10°	1433.2	1435.8	1435.8	1442.0	1438.2	1455.8	1448.2	1460.8
12.5°	1469.5	1472.0	1474.5	1478.2	1475.8	1494.5	1488.2	1498.2
15°	1498.2	1503.2	1504.5	1509.5	1507.0	1527.1	1519.6	1529.6
17.5°	1512.0	1517.1	1517.1	1523.4	1520.9	1542.1	1532.1	1543.4
20°	1504.5	1508.2	1509.5	1515.9	1513.4	1534.6	1524.6	1538.4
22.5°	1480.8	1482.0	1483.2	1489.5	1488.2	1507.0	1498.2	1507.0
25°	1437.0	1440.8	1439.5	1444.5	1444.5	1459.5	1449.5	1457.0
27.5°	1374.5	1378.2	1378.2	1384.5	1379.5	1394.5	1384.5	1395.8
30°	1298.2	1302.0	1299.5	1304.5	1299.5	1314.5	1307.0	1310.8
32.5°	1206.9	1206.9	1208.1	1209.4	1206.9	1220.6	1213.1	1220.6
35°	1098.1	1100.6	1101.9	1103.1	1100.6	1110.6	1101.9	1106.9
37.5°	975.5	981.8	980.5	981.8	978.0	990.5	983.0	985.5
40°	844.2	844.2	843.0	845.5	841.8	851.8	846.8	849.2
42.5°	691.6	695.4	690.4	696.6	686.6	700.4	695.4	691.6
45°	519.0	514.0	512.8	514.0	510.2	511.5	515.2	512.8
47.5°	354.0	354.0	351.5	347.6	352.8	354.0	348.9	348.9
50°	237.6	237.6	235.1	233.9	236.4	235.1	232.6	236.4
52.5°	151.4	146.4	146.4	148.9	146.4	143.9	147.6	145.1
55°	82.5	80.0	80.0	82.5	80.0	80.0	78.8	81.2
57.5°	40.0	41.2	40.0	40.0	40.0	40.0	38.8	40.0
60°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
62.5°	7.5	7.5	6.2	6.2	6.2	6.2	6.2	6.2
65°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
67.5°	3.8	3.8	3.8	3.8	3.8	5.0	3.8	3.8
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
72.5°	3.8	3.8	5.0	5.0	5.0	5.0	5.0	5.0
75°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)