

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: P252382

Luminaire Tested: **LE\_6B30D010 EC6B30509030 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509030 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2852.5 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

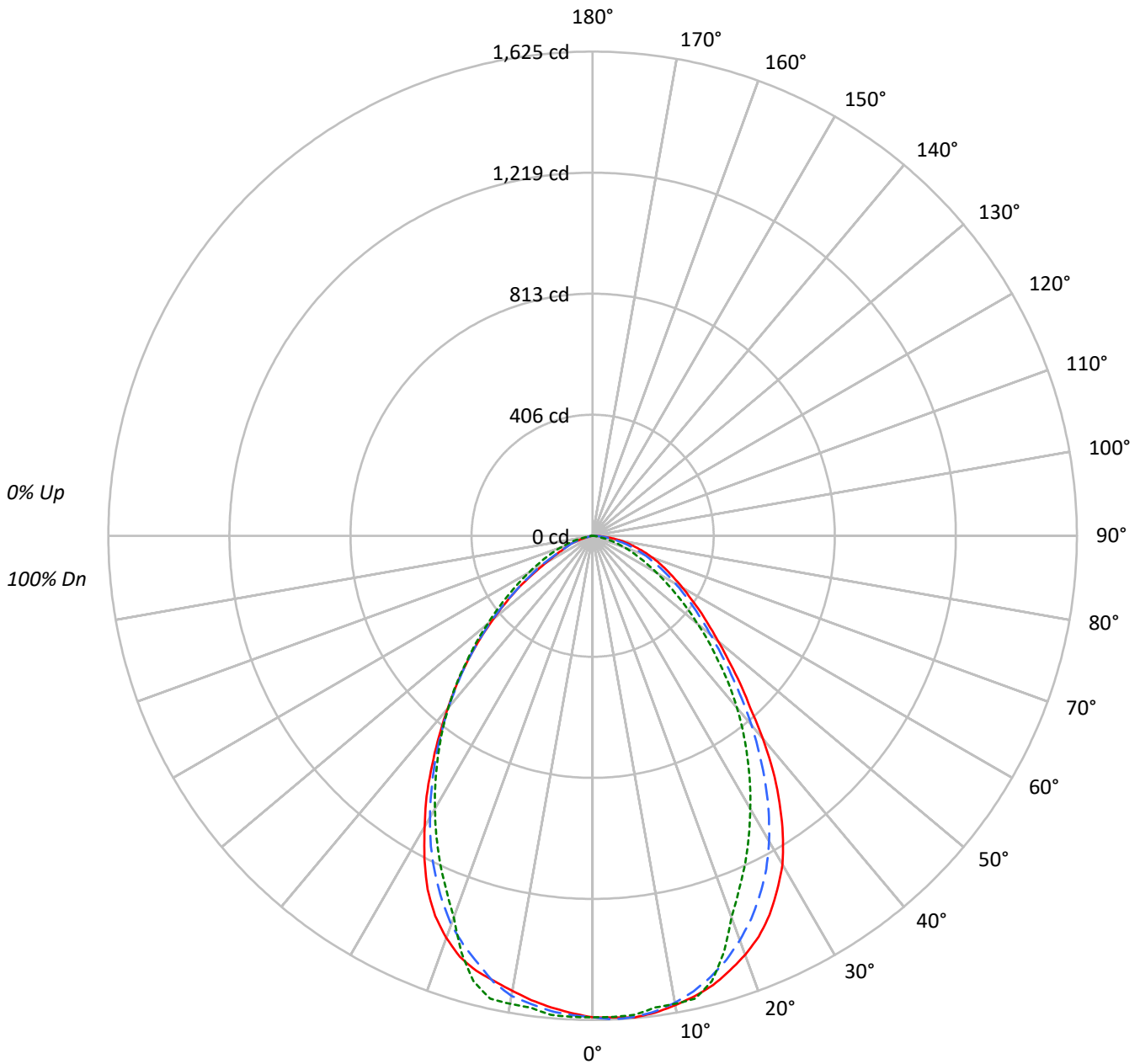
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	105442	105442	105442
5°	106257	105707	104063
10°	105962	105677	102756
15°	105474	104488	102070
20°	103905	94574	99684
25°	101081	87181	94286
30°	95982	79695	84908
35°	87099	72046	74722
40°	75619	64172	64351
45°	64493	55192	54611
50°	55823	46648	44100
55°	49911	38912	34134
60°	45473	32307	23017
65°	42452	26568	17166
70°	40439	21631	14421
75°	38088	15351	4764
80°	36256	7890	1578
85°	29867	4641	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	5.4
10°-20°	426.9	15.0
20°-30°	589.2	20.7
30°-40°	599.6	21.0
40°-50°	481.9	16.9
50°-60°	320.4	11.2
60°-70°	182.6	6.4
70°-80°	82.0	2.9
80°-90°	17.3	0.6
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°	1168.7	41.0
0°-40°	1768.3	62.0
0°-60°	2570.6	90.1
0°-90°	2852.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1616	1616	1616	1616	1616	
5°	1622	1620	1614	1602	1589	154
15°	1562	1532	1547	1486	1511	439
25°	1404	1329	1211	1251	1310	644
35°	1094	1010	905	922	938	680
45°	699	657	598	592	592	542
55°	439	409	342	304	300	394
65°	275	246	172	111	111	274
75°	151	126	61	25	19	161
85°	40	27	6	2	0	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2
2.5°	1618.4	1626.8	1624.6	1622.5	1624.6	1622.5	1618.4	1618.4	1614.1	1614.1	1624.6
5°	1622.5	1626.8	1624.6	1622.5	1622.5	1624.6	1616.2	1616.2	1612.0	1610.0	1620.5
7.5°	1614.1	1620.5	1616.2	1616.2	1614.1	1616.2	1607.9	1607.9	1601.5	1599.5	1610.0
10°	1599.5	1607.9	1603.6	1603.6	1603.6	1599.5	1595.2	1593.1	1586.9	1584.8	1591.0
12.5°	1582.6	1589.0	1586.9	1582.6	1582.6	1582.6	1574.2	1572.1	1563.8	1559.6	1565.9
15°	1561.6	1565.9	1563.8	1561.6	1557.5	1557.5	1549.1	1544.9	1536.5	1528.1	1532.2
17.5°	1530.2	1536.5	1532.2	1530.2	1523.9	1523.9	1515.5	1511.2	1498.8	1490.2	1492.4
20°	1496.6	1498.8	1496.6	1492.4	1486.1	1484.0	1475.6	1467.2	1456.8	1446.2	1444.1
22.5°	1456.8	1458.9	1452.5	1448.4	1442.0	1439.9	1429.4	1423.1	1406.4	1393.8	1391.6
25°	1404.2	1406.4	1406.4	1395.9	1391.6	1387.5	1377.0	1366.5	1351.8	1335.0	1328.6
27.5°	1341.2	1347.6	1343.4	1332.9	1324.5	1322.4	1311.9	1303.5	1284.6	1269.9	1261.5
30°	1274.1	1272.0	1269.9	1263.6	1251.0	1248.9	1238.4	1227.9	1213.2	1194.4	1183.9
32.5°	1188.0	1188.0	1186.0	1179.6	1167.0	1162.9	1154.5	1141.9	1125.1	1110.4	1099.9
35°	1093.6	1095.8	1093.6	1081.0	1072.6	1068.4	1064.2	1049.5	1034.9	1018.0	1009.6
37.5°	995.0	988.6	990.8	980.2	969.8	974.0	961.4	955.0	938.2	925.6	917.2
40°	887.9	892.1	883.8	879.5	873.2	866.9	866.9	856.4	848.0	833.4	829.1
42.5°	782.9	789.2	787.1	782.9	774.5	776.6	766.1	762.0	751.5	745.1	738.9
45°	699.0	699.0	699.0	694.8	692.6	688.5	682.1	675.9	669.6	661.2	657.0
47.5°	617.1	617.1	619.2	615.0	610.9	608.8	604.5	604.5	594.0	585.6	581.4
50°	550.0	550.0	550.0	545.8	541.5	541.5	537.4	533.1	526.9	520.5	516.4
52.5°	489.1	489.1	489.1	484.9	482.8	480.6	478.6	476.5	468.1	463.9	459.6
55°	438.8	436.6	436.6	434.5	430.2	430.2	428.2	424.0	417.8	411.4	409.2
57.5°	388.4	390.4	388.4	388.4	384.1	384.1	379.9	377.9	371.5	367.4	363.1
60°	348.5	348.5	348.5	346.4	342.1	344.2	340.0	338.0	331.6	325.4	321.1
62.5°	308.5	310.6	310.6	308.5	304.4	304.4	302.2	300.1	293.9	287.6	281.2
65°	275.0	275.0	275.0	272.9	270.8	270.8	268.6	266.6	260.2	251.9	245.6
67.5°	243.5	241.4	241.4	241.4	239.2	237.2	235.1	233.0	226.8	220.4	212.0
70°	212.0	212.0	212.0	209.9	205.8	207.8	205.8	203.6	197.2	191.0	184.8
72.5°	182.6	182.6	180.5	178.4	178.4	176.4	176.4	174.2	167.9	159.5	153.2
75°	151.1	151.1	151.1	151.1	146.9	149.0	144.9	142.8	138.5	132.2	126.0
77.5°	123.9	123.9	123.9	121.8	119.6	119.6	117.5	115.5	109.1	105.0	96.5
80°	96.5	96.5	96.5	96.5	94.5	92.4	90.2	88.1	84.0	77.6	71.4
82.5°	71.4	71.4	69.2	69.2	69.2	67.1	65.1	63.0	58.8	54.6	50.4
85°	39.9	42.0	42.0	37.8	39.9	37.8	37.8	33.6	33.6	29.4	27.2
87.5°	14.8	12.6	12.6	12.6	12.6	12.6	12.6	10.5	10.5	10.5	8.4
90°	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2
2.5°	1616.2	1614.1	1622.5	1622.5	1610.0	1616.2	1618.4	1614.1	1614.1	1616.2	1610.0
5°	1612.0	1607.9	1616.2	1618.4	1605.8	1612.0	1614.1	1610.0	1612.0	1614.1	1605.8
7.5°	1597.4	1597.4	1603.6	1605.8	1593.1	1599.5	1599.5	1595.2	1597.4	1597.4	1591.0
10°	1582.6	1576.4	1582.6	1582.6	1572.1	1574.2	1578.5	1576.4	1584.8	1595.2	1595.2
12.5°	1555.4	1549.1	1559.6	1559.6	1553.2	1561.6	1572.1	1578.5	1586.9	1591.0	1578.5
15°	1521.8	1523.9	1542.8	1557.5	1551.1	1563.8	1574.2	1570.1	1559.6	1547.0	1528.1
17.5°	1477.8	1471.4	1488.2	1496.6	1488.2	1492.4	1500.8	1492.4	1475.6	1465.1	1439.9
20°	1427.4	1410.5	1410.5	1406.4	1391.6	1391.6	1389.5	1374.9	1368.6	1362.2	1351.8
22.5°	1370.6	1351.8	1345.5	1332.9	1320.2	1318.2	1311.9	1297.2	1288.8	1284.6	1272.0
25°	1305.6	1288.8	1278.2	1265.8	1246.9	1242.6	1236.4	1221.6	1217.4	1211.1	1200.6
27.5°	1238.4	1217.4	1202.8	1190.1	1173.4	1171.2	1158.6	1148.1	1139.8	1135.6	1127.1
30°	1160.8	1137.6	1127.1	1110.4	1097.8	1093.6	1083.1	1068.4	1062.1	1057.9	1051.6
32.5°	1074.8	1055.8	1045.4	1030.6	1013.9	1015.9	1003.4	990.8	986.5	982.4	976.0
35°	990.8	971.9	959.2	946.6	936.1	932.0	923.6	913.1	906.8	904.6	900.5
37.5°	898.4	883.8	873.2	860.6	852.2	848.0	843.8	833.4	829.1	829.1	820.8
40°	808.1	795.5	787.1	780.9	770.4	768.2	764.0	757.8	755.6	753.5	747.2
42.5°	726.2	709.5	703.1	699.0	692.6	688.5	686.4	682.1	680.1	678.0	671.8
45°	648.6	633.9	627.6	623.4	617.1	615.0	612.9	606.6	602.4	598.2	596.1
47.5°	573.0	562.5	560.5	550.0	545.8	541.5	537.4	533.1	531.0	529.0	520.5
50°	508.0	501.6	491.1	484.9	480.6	478.6	470.1	463.9	461.8	459.6	453.4
52.5°	449.2	440.8	434.5	424.0	421.9	417.8	413.5	405.1	400.9	398.9	392.5
55°	396.8	390.4	382.0	373.6	367.4	365.2	358.9	350.5	346.4	342.1	338.0
57.5°	352.6	342.1	333.8	325.4	321.1	314.9	308.5	304.4	298.0	291.8	285.5
60°	310.6	302.2	291.8	283.4	279.1	275.0	266.6	260.2	254.0	247.6	241.4
62.5°	270.8	262.4	251.9	243.5	239.2	235.1	226.8	220.4	214.1	207.8	199.4
65°	235.1	226.8	218.2	209.9	205.8	201.5	193.1	184.8	178.4	172.1	163.8
67.5°	205.8	195.2	186.9	178.4	174.2	170.0	161.6	155.4	146.9	140.6	132.2
70°	174.2	165.9	159.5	151.1	146.9	142.8	134.4	126.0	119.6	113.4	105.0
72.5°	146.9	136.4	130.1	121.8	117.5	115.5	107.0	100.8	94.5	86.0	79.8
75°	117.5	109.1	100.8	94.5	90.2	88.1	79.8	73.5	67.1	60.9	54.6
77.5°	90.2	84.0	75.6	69.2	65.1	63.0	54.6	48.2	42.0	37.8	31.5
80°	67.1	58.8	54.6	48.2	46.1	42.0	37.8	31.5	27.2	21.0	16.8
82.5°	46.1	39.9	35.6	31.5	29.4	27.2	23.1	18.9	14.8	12.6	10.5
85°	25.2	21.0	18.9	16.8	14.8	14.8	12.6	10.5	8.4	6.2	4.2
87.5°	8.4	6.2	6.2	6.2	6.2	4.2	4.2	4.2	2.1	2.1	2.1
90°	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2
2.5°	1614.1	1614.1	1614.1	1612.0	1612.0	1612.0	1610.0	1618.4	1610.0	1607.9	1614.1
5°	1612.0	1607.9	1607.9	1607.9	1607.9	1605.8	1603.6	1607.9	1601.5	1599.5	1599.5
7.5°	1599.5	1597.4	1597.4	1595.2	1593.1	1591.0	1589.0	1591.0	1584.8	1582.6	1582.6
10°	1601.5	1597.4	1597.4	1591.0	1586.9	1580.6	1574.2	1576.4	1568.0	1561.6	1561.6
12.5°	1576.4	1565.9	1559.6	1553.2	1549.1	1547.0	1538.6	1542.8	1534.4	1532.2	1532.2
15°	1519.8	1507.1	1496.6	1492.4	1492.4	1488.2	1481.9	1490.2	1486.1	1488.2	1498.8
17.5°	1431.5	1425.2	1419.0	1416.9	1419.0	1423.1	1427.4	1439.9	1439.9	1446.2	1456.8
20°	1353.9	1349.6	1353.9	1353.9	1356.0	1364.4	1372.8	1383.2	1387.5	1393.8	1408.5
22.5°	1278.2	1278.2	1282.5	1288.8	1286.8	1301.4	1303.5	1322.4	1322.4	1335.0	1347.6
25°	1204.9	1204.9	1209.0	1211.1	1215.4	1223.8	1232.1	1246.9	1251.0	1263.6	1274.1
27.5°	1133.5	1131.4	1131.4	1133.5	1137.6	1148.1	1152.4	1169.1	1175.5	1183.9	1194.4
30°	1053.8	1051.6	1055.8	1060.0	1057.9	1068.4	1074.8	1087.2	1091.5	1099.9	1108.2
32.5°	978.1	978.1	978.1	982.4	982.4	990.8	990.8	1005.4	1005.4	1011.8	1020.1
35°	900.5	900.5	902.6	904.6	906.8	908.9	911.0	919.4	921.5	923.6	927.8
37.5°	827.0	824.9	827.0	827.0	822.9	831.2	831.2	839.6	833.4	839.6	841.8
40°	751.5	751.5	749.4	749.4	749.4	753.5	749.4	755.6	751.5	755.6	753.5
42.5°	673.8	673.8	669.6	673.8	671.8	671.8	671.8	675.9	669.6	673.8	675.9
45°	596.1	594.0	594.0	591.9	591.9	591.9	594.0	594.0	591.9	596.1	596.1
47.5°	520.5	518.5	518.5	518.5	518.5	520.5	514.2	518.5	514.2	514.2	514.2
50°	455.5	453.4	451.2	449.2	447.1	447.1	445.0	445.0	440.8	438.8	436.6
52.5°	392.5	390.4	386.2	386.2	384.1	382.0	375.8	375.8	369.4	367.4	367.4
55°	335.9	329.5	327.5	323.2	323.2	319.0	314.9	310.6	304.4	300.1	300.1
57.5°	283.4	277.1	272.9	270.8	268.6	264.5	256.1	254.0	245.6	243.5	241.4
60°	237.2	230.9	224.6	220.4	218.2	212.0	203.6	199.4	195.2	188.9	182.6
62.5°	193.1	186.9	178.4	176.4	172.1	165.9	159.5	153.2	149.0	142.8	138.5
65°	155.4	149.0	142.8	138.5	134.4	128.0	121.8	115.5	111.2	109.1	107.0
67.5°	126.0	117.5	111.2	109.1	105.0	100.8	94.5	92.4	88.1	88.1	88.1
70°	98.6	92.4	86.0	84.0	81.9	77.6	73.5	73.5	73.5	73.5	73.5
72.5°	73.5	69.2	63.0	60.9	58.8	56.6	52.5	54.6	52.5	52.5	52.5
75°	46.1	42.0	37.8	35.6	33.6	31.5	29.4	27.2	25.2	23.1	23.1
77.5°	25.2	21.0	18.9	16.8	16.8	14.8	12.6	12.6	10.5	10.5	10.5
80°	14.8	12.6	10.5	8.4	8.4	6.2	6.2	6.2	6.2	4.2	4.2
82.5°	8.4	6.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1
85°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P252382

CATALOG NUMBER: LE\_6B30D010 EC6B30509030 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2	1616.2
2.5°	1603.6	1610.0	1603.6	1610.0	1610.0	1610.0	1610.0	1603.6
5°	1593.1	1597.4	1591.0	1595.2	1597.4	1595.2	1595.2	1589.0
7.5°	1574.2	1578.5	1572.1	1578.5	1580.6	1578.5	1576.4	1572.1
10°	1555.4	1557.5	1551.1	1555.4	1559.6	1559.6	1557.5	1551.1
12.5°	1526.0	1532.2	1526.0	1530.2	1534.4	1536.5	1536.5	1530.2
15°	1492.4	1502.9	1498.8	1505.0	1511.2	1513.4	1513.4	1511.2
17.5°	1458.9	1469.4	1463.0	1473.5	1479.9	1484.0	1486.1	1481.9
20°	1410.5	1423.1	1419.0	1427.4	1435.8	1442.0	1442.0	1435.8
22.5°	1347.6	1364.4	1362.2	1368.6	1379.0	1381.1	1385.4	1381.1
25°	1278.2	1290.9	1288.8	1295.1	1307.8	1307.8	1309.8	1309.8
27.5°	1198.5	1211.1	1209.0	1213.2	1221.6	1223.8	1225.9	1221.6
30°	1112.5	1118.8	1118.8	1125.1	1131.4	1133.5	1133.5	1127.1
32.5°	1018.0	1026.4	1030.6	1028.5	1034.9	1039.0	1036.9	1036.9
35°	932.0	934.1	936.1	938.2	940.4	944.5	940.4	938.2
37.5°	839.6	845.9	841.8	845.9	850.1	848.0	845.9	845.9
40°	755.6	757.8	753.5	757.8	759.9	759.9	759.9	755.6
42.5°	671.8	675.9	671.8	675.9	675.9	675.9	675.9	673.8
45°	587.8	591.9	591.9	594.0	594.0	591.9	591.9	591.9
47.5°	510.1	514.2	510.1	514.2	516.4	512.1	512.1	512.1
50°	436.6	434.5	434.5	436.6	436.6	436.6	436.6	434.5
52.5°	361.0	363.1	363.1	363.1	365.2	363.1	365.2	365.2
55°	296.0	296.0	296.0	298.0	296.0	296.0	298.0	300.1
57.5°	237.2	235.1	233.0	233.0	235.1	233.0	233.0	233.0
60°	182.6	180.5	178.4	178.4	178.4	178.4	178.4	176.4
62.5°	136.4	136.4	136.4	138.5	138.5	138.5	138.5	140.6
65°	109.1	109.1	109.1	109.1	109.1	109.1	109.1	111.2
67.5°	88.1	88.1	88.1	90.2	90.2	90.2	90.2	90.2
70°	73.5	73.5	75.6	73.5	75.6	75.6	75.6	75.6
72.5°	50.4	50.4	50.4	50.4	50.4	48.2	50.4	48.2
75°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	18.9
77.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)