

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: P252384

Luminaire Tested: **LE\_6B30D010 EC6B30509040 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252384  
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 EC6B30509040 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2898.7 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

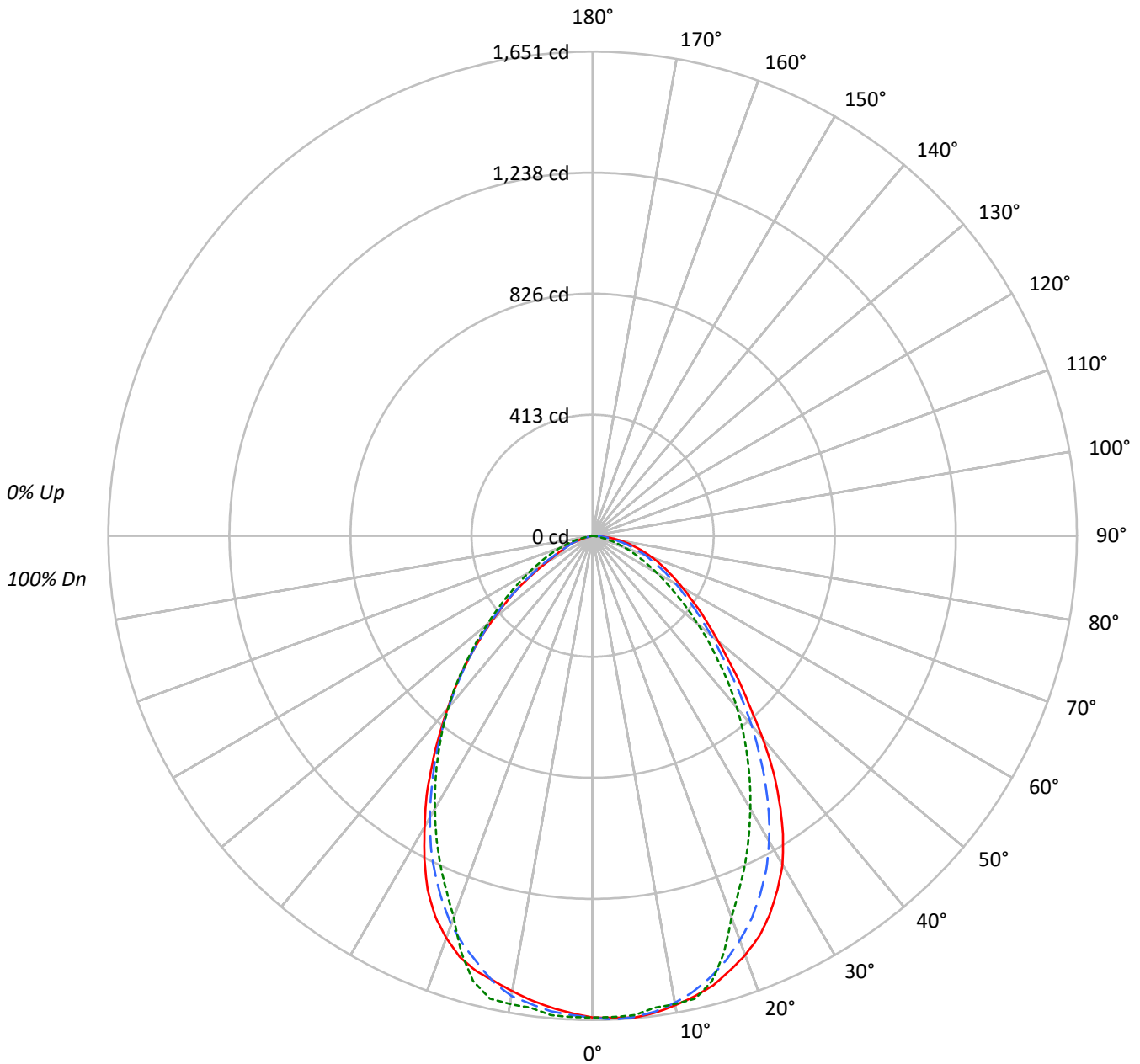
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	107158	107158	107158
5°	107986	107430	105753
10°	107678	107393	104432
15°	107189	106183	103731
20°	105592	96116	101295
25°	102723	88599	95812
30°	97542	80983	86294
35°	88516	73225	75941
40°	76836	65220	65399
45°	65526	56087	55497
50°	56726	47409	44811
55°	50707	39560	34692
60°	46203	32855	23369
65°	43132	27000	17444
70°	41107	21955	14650
75°	38718	15603	4840
80°	36857	8040	1578
85°	30316	4791	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.1	5.4
10°-20°	433.8	15.0
20°-30°	598.8	20.7
30°-40°	609.3	21.0
40°-50°	489.7	16.9
50°-60°	325.6	11.2
60°-70°	185.5	6.4
70°-80°	83.3	2.9
80°-90°	17.5	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°	1187.7	41.0
0°-40°	1797.0	62.0
0°-60°	2612.3	90.1
0°-90°	2898.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1642	1642	1642	1642	1642	
5°	1649	1647	1640	1628	1615	157
15°	1587	1557	1572	1510	1536	447
25°	1427	1350	1231	1271	1331	654
35°	1111	1026	919	936	954	691
45°	710	668	608	602	602	551
55°	446	416	348	309	305	401
65°	279	250	175	113	113	278
75°	154	128	62	26	19	164
85°	40	28	6	2	0	48
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°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
2.5°	1644.6	1653.1	1651.0	1648.9	1651.0	1648.9	1644.6	1644.6	1640.4	1640.4	1651.0
5°	1648.9	1653.1	1651.0	1648.9	1648.9	1651.0	1642.5	1642.5	1638.2	1636.0	1646.8
7.5°	1640.4	1646.8	1642.5	1642.5	1640.4	1642.5	1633.9	1633.9	1627.5	1625.4	1636.0
10°	1625.4	1633.9	1629.6	1629.6	1629.6	1625.4	1621.1	1619.0	1612.6	1610.5	1616.9
12.5°	1608.4	1614.8	1612.6	1608.4	1608.4	1608.4	1599.8	1597.6	1589.1	1584.9	1591.2
15°	1587.0	1591.2	1589.1	1587.0	1582.8	1582.8	1574.2	1569.9	1561.4	1552.9	1557.1
17.5°	1555.0	1561.4	1557.1	1555.0	1548.6	1548.6	1540.1	1535.8	1523.0	1514.5	1516.6
20°	1520.9	1523.0	1520.9	1516.6	1510.2	1508.1	1499.5	1491.0	1480.4	1469.6	1467.5
22.5°	1480.4	1482.5	1476.1	1471.8	1465.4	1463.2	1452.6	1446.2	1429.1	1416.4	1414.2
25°	1427.0	1429.1	1429.1	1418.5	1414.2	1410.0	1399.2	1388.6	1373.8	1356.6	1350.2
27.5°	1363.0	1369.4	1365.1	1354.5	1346.0	1343.9	1333.1	1324.6	1305.4	1290.5	1282.0
30°	1294.8	1292.6	1290.5	1284.1	1271.2	1269.1	1258.5	1247.9	1232.9	1213.8	1203.0
32.5°	1207.2	1207.2	1205.1	1198.8	1186.0	1181.8	1173.1	1160.4	1143.4	1128.4	1117.8
35°	1111.4	1113.5	1111.4	1098.5	1090.0	1085.8	1081.5	1066.5	1051.6	1034.5	1026.0
37.5°	1011.1	1004.6	1006.8	996.1	985.5	989.8	977.0	970.5	953.5	940.6	932.1
40°	902.2	906.5	898.0	893.8	887.4	881.0	881.0	870.2	861.8	846.9	842.5
42.5°	795.6	802.0	799.9	795.6	787.1	789.2	778.6	774.2	763.6	757.2	750.9
45°	710.2	710.2	710.2	706.0	703.9	699.6	693.2	686.9	680.5	671.9	667.6
47.5°	627.1	627.1	629.2	625.0	620.8	618.6	614.4	614.4	603.6	595.1	590.9
50°	558.9	558.9	558.9	554.6	550.4	550.4	546.1	541.8	535.4	529.0	524.8
52.5°	497.0	497.0	497.0	492.8	490.6	488.5	486.4	484.2	475.6	471.4	467.1
55°	445.8	443.6	443.6	441.5	437.2	437.2	435.1	430.9	424.5	418.1	416.0
57.5°	394.6	396.8	394.6	394.6	390.4	390.4	386.1	384.0	377.5	373.2	369.0
60°	354.1	354.1	354.1	352.0	347.8	349.9	345.5	343.4	337.0	330.6	326.4
62.5°	313.5	315.8	315.8	313.5	309.2	309.2	307.1	305.0	298.6	292.2	285.9
65°	279.4	279.4	279.4	277.2	275.1	275.1	273.0	270.9	264.5	256.0	249.6
67.5°	247.4	245.2	245.2	245.2	243.1	241.0	238.9	236.8	230.4	224.0	215.5
70°	215.5	215.5	215.5	213.2	209.0	211.1	209.0	206.9	200.5	194.1	187.8
72.5°	185.6	185.6	183.5	181.2	181.2	179.1	179.1	177.0	170.6	162.1	155.8
75°	153.6	153.6	153.6	153.6	149.4	151.5	147.1	145.0	140.8	134.4	128.0
77.5°	125.9	125.9	125.9	123.8	121.6	121.6	119.5	117.4	110.9	106.6	98.1
80°	98.1	98.1	98.1	98.1	96.0	93.9	91.8	89.6	85.4	78.9	72.5
82.5°	72.5	72.5	70.4	70.4	70.4	68.2	66.1	64.0	59.8	55.5	51.2
85°	40.5	42.6	42.6	38.4	40.5	38.4	38.4	34.1	34.1	29.9	27.8
87.5°	14.9	12.8	12.8	12.8	12.8	12.8	12.8	10.6	10.6	10.6	8.5
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°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
2.5°	1642.5	1640.4	1648.9	1648.9	1636.0	1642.5	1644.6	1640.4	1640.4	1642.5	1636.0
5°	1638.2	1633.9	1642.5	1644.6	1631.8	1638.2	1640.4	1636.0	1638.2	1640.4	1631.8
7.5°	1623.2	1623.2	1629.6	1631.8	1619.0	1625.4	1625.4	1621.1	1623.2	1623.2	1616.9
10°	1608.4	1601.9	1608.4	1608.4	1597.6	1599.8	1604.0	1601.9	1610.5	1621.1	1621.1
12.5°	1580.6	1574.2	1584.9	1584.9	1578.5	1587.0	1597.6	1604.0	1612.6	1616.9	1604.0
15°	1546.5	1548.6	1567.8	1582.8	1576.4	1589.1	1599.8	1595.5	1584.9	1572.1	1552.9
17.5°	1501.6	1495.2	1512.4	1520.9	1512.4	1516.6	1525.1	1516.6	1499.5	1488.9	1463.2
20°	1450.5	1433.4	1433.4	1429.1	1414.2	1414.2	1412.1	1397.1	1390.8	1384.4	1373.8
22.5°	1392.9	1373.8	1367.2	1354.5	1341.8	1339.5	1333.1	1318.2	1309.8	1305.4	1292.6
25°	1326.8	1309.8	1299.0	1286.2	1267.0	1262.8	1256.4	1241.5	1237.1	1230.8	1220.1
27.5°	1258.5	1237.1	1222.2	1209.5	1192.4	1190.2	1177.5	1166.8	1158.2	1154.0	1145.5
30°	1179.6	1156.1	1145.5	1128.4	1115.6	1111.4	1100.6	1085.8	1079.4	1075.0	1068.6
32.5°	1092.1	1072.9	1062.2	1047.4	1030.2	1032.4	1019.6	1006.8	1002.5	998.2	991.9
35°	1006.8	987.6	974.8	962.0	951.4	947.1	938.5	927.9	921.5	919.4	915.1
37.5°	913.0	898.0	887.4	874.5	866.0	861.8	857.5	846.9	842.5	842.5	834.0
40°	821.2	808.4	799.9	793.5	782.9	780.8	776.4	770.0	767.9	765.8	759.4
42.5°	738.0	721.0	714.6	710.2	703.9	699.6	697.5	693.2	691.1	689.0	682.6
45°	659.1	644.1	637.8	633.5	627.1	625.0	622.9	616.5	612.2	607.9	605.8
47.5°	582.4	571.6	569.5	558.9	554.6	550.4	546.1	541.8	539.6	537.5	529.0
50°	516.2	509.8	499.1	492.8	488.5	486.4	477.8	471.4	469.2	467.1	460.8
52.5°	456.5	448.0	441.5	430.9	428.8	424.5	420.2	411.6	407.4	405.2	398.9
55°	403.1	396.8	388.2	379.6	373.2	371.1	364.8	356.2	352.0	347.8	343.4
57.5°	358.4	347.8	339.1	330.6	326.4	320.0	313.5	309.2	302.9	296.5	290.1
60°	315.8	307.1	296.5	288.0	283.8	279.4	270.9	264.5	258.1	251.8	245.2
62.5°	275.1	266.6	256.0	247.4	243.1	238.9	230.4	224.0	217.6	211.1	202.6
65°	238.9	230.4	221.9	213.2	209.0	204.8	196.2	187.8	181.2	174.9	166.4
67.5°	209.0	198.4	189.9	181.2	177.0	172.8	164.2	157.9	149.4	142.9	134.4
70°	177.0	168.5	162.1	153.6	149.4	145.0	136.5	128.0	121.6	115.1	106.6
72.5°	149.4	138.6	132.2	123.8	119.5	117.4	108.8	102.4	96.0	87.5	81.0
75°	119.5	110.9	102.4	96.0	91.8	89.6	81.0	74.6	68.2	61.9	55.5
77.5°	91.8	85.4	76.8	70.4	66.1	64.0	55.5	49.0	42.6	38.4	32.0
80°	68.2	59.8	55.5	49.0	46.9	42.6	38.4	32.0	27.8	21.4	17.1
82.5°	46.9	40.5	36.2	32.0	29.9	27.8	23.5	19.2	14.9	12.8	10.6
85°	25.6	21.4	19.2	17.1	14.9	14.9	12.8	10.6	8.5	6.4	4.2
87.5°	8.5	6.4	6.4	6.4	6.4	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°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
2.5°	1640.4	1640.4	1640.4	1638.2	1638.2	1638.2	1636.0	1644.6	1636.0	1633.9	1640.4
5°	1638.2	1633.9	1633.9	1633.9	1633.9	1631.8	1629.6	1633.9	1627.5	1625.4	1625.4
7.5°	1625.4	1623.2	1623.2	1621.1	1619.0	1616.9	1614.8	1616.9	1610.5	1608.4	1608.4
10°	1627.5	1623.2	1623.2	1616.9	1612.6	1606.2	1599.8	1601.9	1593.4	1587.0	1587.0
12.5°	1601.9	1591.2	1584.9	1578.5	1574.2	1572.1	1563.5	1567.8	1559.2	1557.1	1557.1
15°	1544.4	1531.5	1520.9	1516.6	1516.6	1512.4	1506.0	1514.5	1510.2	1512.4	1523.0
17.5°	1454.8	1448.4	1442.0	1439.9	1442.0	1446.2	1450.5	1463.2	1463.2	1469.6	1480.4
20°	1375.9	1371.5	1375.9	1375.9	1378.0	1386.5	1395.0	1405.6	1410.0	1416.4	1431.2
22.5°	1299.0	1299.0	1303.2	1309.8	1307.6	1322.5	1324.6	1343.9	1343.9	1356.6	1369.4
25°	1224.4	1224.4	1228.6	1230.8	1235.0	1243.6	1252.1	1267.0	1271.2	1284.1	1294.8
27.5°	1151.9	1149.8	1149.8	1151.9	1156.1	1166.8	1171.0	1188.1	1194.5	1203.0	1213.8
30°	1070.8	1068.6	1072.9	1077.2	1075.0	1085.8	1092.1	1104.9	1109.2	1117.8	1126.2
32.5°	994.0	994.0	994.0	998.2	998.2	1006.8	1006.8	1021.8	1021.8	1028.1	1036.6
35°	915.1	915.1	917.2	919.4	921.5	923.6	925.8	934.2	936.4	938.5	942.8
37.5°	840.4	838.2	840.4	840.4	836.1	844.8	844.8	853.2	846.9	853.2	855.4
40°	763.6	763.6	761.5	761.5	761.5	765.8	761.5	767.9	763.6	767.9	765.8
42.5°	684.8	684.8	680.5	684.8	682.6	682.6	682.6	686.9	680.5	684.8	686.9
45°	605.8	603.6	603.6	601.5	601.5	601.5	603.6	603.6	601.5	605.8	605.8
47.5°	529.0	526.9	526.9	526.9	526.9	529.0	522.6	526.9	522.6	522.6	522.6
50°	462.9	460.8	458.6	456.5	454.4	454.4	452.2	452.2	448.0	445.8	443.6
52.5°	398.9	396.8	392.5	392.5	390.4	388.2	381.9	381.9	375.4	373.2	373.2
55°	341.2	334.9	332.8	328.5	328.5	324.2	320.0	315.8	309.2	305.0	305.0
57.5°	288.0	281.6	277.2	275.1	273.0	268.8	260.2	258.1	249.6	247.4	245.2
60°	241.0	234.6	228.2	224.0	221.9	215.5	206.9	202.6	198.4	192.0	185.6
62.5°	196.2	189.9	181.2	179.1	174.9	168.5	162.1	155.8	151.5	145.0	140.8
65°	157.9	151.5	145.0	140.8	136.5	130.1	123.8	117.4	113.0	110.9	108.8
67.5°	128.0	119.5	113.0	110.9	106.6	102.4	96.0	93.9	89.6	89.6	89.6
70°	100.2	93.9	87.5	85.4	83.2	78.9	74.6	74.6	74.6	74.6	74.6
72.5°	74.6	70.4	64.0	61.9	59.8	57.6	53.4	55.5	53.4	53.4	53.4
75°	46.9	42.6	38.4	36.2	34.1	32.0	29.9	27.8	25.6	23.5	23.5
77.5°	25.6	21.4	19.2	17.1	17.1	14.9	12.8	12.8	10.6	10.6	10.6
80°	14.9	12.8	10.6	8.5	8.5	6.4	6.4	6.4	6.4	4.2	4.2
82.5°	8.5	6.4	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: P252384

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
2.5°	1629.6	1636.0	1629.6	1636.0	1636.0	1636.0	1636.0	1629.6
5°	1619.0	1623.2	1616.9	1621.1	1623.2	1621.1	1621.1	1614.8
7.5°	1599.8	1604.0	1597.6	1604.0	1606.2	1604.0	1601.9	1597.6
10°	1580.6	1582.8	1576.4	1580.6	1584.9	1584.9	1582.8	1576.4
12.5°	1550.8	1557.1	1550.8	1555.0	1559.2	1561.4	1561.4	1555.0
15°	1516.6	1527.2	1523.0	1529.4	1535.8	1537.9	1537.9	1535.8
17.5°	1482.5	1493.1	1486.8	1497.4	1503.8	1508.1	1510.2	1506.0
20°	1433.4	1446.2	1442.0	1450.5	1459.0	1465.4	1465.4	1459.0
22.5°	1369.4	1386.5	1384.4	1390.8	1401.4	1403.5	1407.9	1403.5
25°	1299.0	1311.9	1309.8	1316.1	1328.9	1328.9	1331.0	1331.0
27.5°	1218.0	1230.8	1228.6	1232.9	1241.5	1243.6	1245.8	1241.5
30°	1130.5	1136.9	1136.9	1143.4	1149.8	1151.9	1151.9	1145.5
32.5°	1034.5	1043.1	1047.4	1045.2	1051.6	1055.9	1053.8	1053.8
35°	947.1	949.2	951.4	953.5	955.6	959.9	955.6	953.5
37.5°	853.2	859.6	855.4	859.6	863.9	861.8	859.6	859.6
40°	767.9	770.0	765.8	770.0	772.1	772.1	772.1	767.9
42.5°	682.6	686.9	682.6	686.9	686.9	686.9	686.9	684.8
45°	597.2	601.5	601.5	603.6	603.6	601.5	601.5	601.5
47.5°	518.4	522.6	518.4	522.6	524.8	520.5	520.5	520.5
50°	443.6	441.5	441.5	443.6	443.6	443.6	443.6	441.5
52.5°	366.9	369.0	369.0	369.0	371.1	369.0	371.1	371.1
55°	300.8	300.8	300.8	302.9	300.8	300.8	302.9	305.0
57.5°	241.0	238.9	236.8	236.8	238.9	236.8	236.8	236.8
60°	185.6	183.5	181.2	181.2	181.2	181.2	181.2	179.1
62.5°	138.6	138.6	138.6	140.8	140.8	140.8	140.8	142.9
65°	110.9	110.9	110.9	110.9	110.9	110.9	110.9	113.0
67.5°	89.6	89.6	89.6	91.8	91.8	91.8	91.8	91.8
70°	74.6	74.6	76.8	74.6	76.8	76.8	76.8	76.8
72.5°	51.2	51.2	51.2	51.2	51.2	49.0	51.2	49.0
75°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	19.2
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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)