

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: P252488

Luminaire Tested: **LE\_6B30D010 EC6B30509040 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509040 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2721.2 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

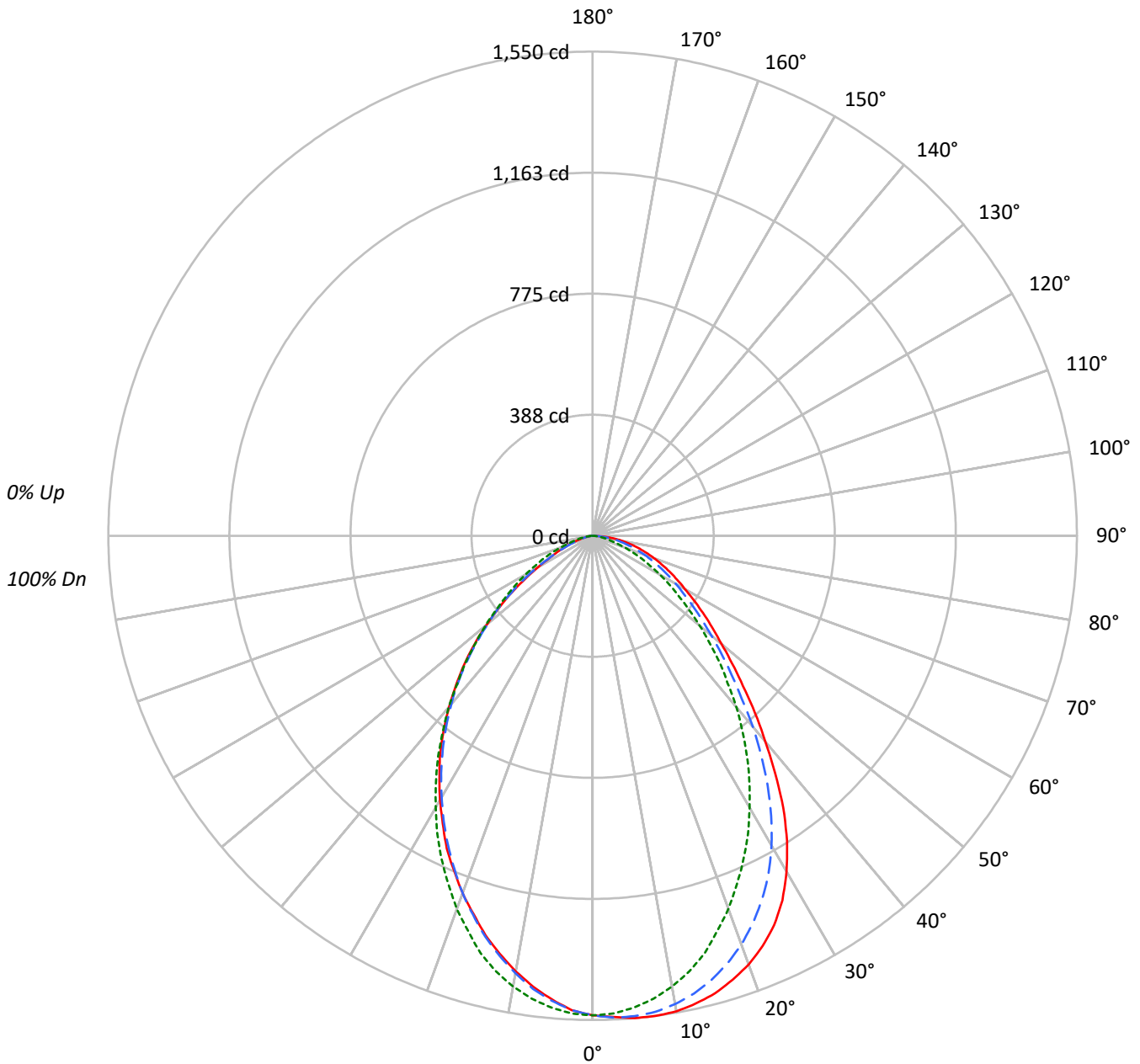
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

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

	0°	90°	180°
0°	100157	100157	100157
5°	101516	99283	97606
10°	102411	97045	93793
15°	102394	93465	89432
20°	101399	88229	84528
25°	98994	82272	79508
30°	93489	75650	73563
35°	84741	68605	67761
40°	73174	61013	60825
45°	62749	53126	53513
50°	54544	45450	44801
55°	49001	38320	35897
60°	44507	32281	26422
65°	41804	26676	19420
70°	39867	20754	14230
75°	38163	15074	9680
80°	36068	10445	6387
85°	31888	6363	3144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.6	5.3
10°-20°	393.3	14.5
20°-30°	546.0	20.1
30°-40°	565.6	20.8
40°-50°	464.7	17.1
50°-60°	319.4	11.7
60°-70°	183.6	6.7
70°-80°	84.4	3.1
80°-90°	20.5	0.8
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°	1082.9	39.8
0°-40°	1648.5	60.6
0°-60°	2432.7	89.4
0°-90°	2721.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1535	1535	1535	1535	1535	
5°	1550	1544	1516	1495	1490	148
15°	1516	1471	1384	1328	1324	427
25°	1375	1284	1143	1094	1104	629
35°	1064	976	861	836	851	660
45°	680	629	576	569	580	530
55°	431	390	337	318	316	388
65°	271	237	173	122	126	270
75°	151	119	60	38	38	160
85°	43	30	8	4	4	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°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1541.6	1554.4	1545.9	1543.8	1548.0	1548.0	1548.0	1541.6	1545.9	1539.5	1543.8
5°	1550.1	1560.8	1552.2	1548.0	1552.2	1554.4	1548.0	1543.8	1550.1	1541.6	1543.8
7.5°	1550.1	1560.8	1552.2	1550.1	1552.2	1552.2	1550.1	1541.6	1545.9	1537.4	1537.4
10°	1545.9	1554.4	1545.9	1541.6	1543.8	1541.6	1541.6	1530.9	1533.0	1522.4	1522.4
12.5°	1533.0	1543.8	1533.0	1528.8	1528.8	1528.8	1522.4	1513.9	1516.0	1503.2	1501.1
15°	1516.0	1524.5	1513.9	1509.6	1509.6	1507.5	1503.2	1490.4	1490.4	1477.6	1471.2
17.5°	1490.4	1499.0	1490.4	1484.0	1481.9	1477.6	1473.4	1460.5	1456.2	1441.4	1435.0
20°	1460.5	1467.0	1458.4	1452.0	1447.8	1443.5	1435.0	1422.1	1417.9	1403.0	1392.4
22.5°	1422.1	1430.8	1417.9	1411.5	1407.2	1400.9	1392.4	1379.5	1373.1	1354.0	1341.1
25°	1375.2	1379.5	1368.9	1362.5	1354.0	1349.6	1343.2	1326.2	1319.9	1298.5	1283.6
27.5°	1315.6	1319.9	1307.0	1302.8	1292.1	1287.9	1279.4	1264.4	1255.9	1234.5	1219.6
30°	1241.0	1245.2	1236.6	1230.2	1221.8	1213.2	1206.9	1191.9	1179.1	1157.8	1145.0
32.5°	1157.8	1164.1	1155.6	1147.1	1132.2	1134.4	1123.6	1108.8	1098.1	1078.9	1064.0
35°	1064.0	1068.2	1057.6	1055.5	1046.9	1038.4	1027.8	1017.0	1010.6	989.4	976.5
37.5°	959.5	970.1	959.5	951.0	946.8	940.2	933.9	919.0	914.8	901.9	884.9
40°	859.2	865.6	859.2	850.8	844.4	844.4	835.9	827.2	816.6	803.9	797.5
42.5°	769.8	765.5	763.4	759.1	750.5	748.4	746.2	735.6	729.2	716.4	705.8
45°	680.1	682.2	678.0	675.9	669.5	665.2	661.0	652.5	650.4	637.5	629.0
47.5°	605.5	603.4	599.1	599.1	594.9	590.6	586.4	580.0	577.9	567.1	558.6
50°	537.4	539.5	537.4	535.1	528.8	526.6	522.4	518.1	513.9	503.2	494.6
52.5°	481.9	479.8	477.6	477.6	471.2	469.1	464.9	460.5	456.2	445.6	439.2
55°	430.8	430.8	428.6	426.5	420.0	417.9	415.8	411.5	405.1	396.6	390.2
57.5°	383.8	383.8	381.6	379.5	375.2	375.2	371.0	366.8	362.5	354.0	345.4
60°	341.1	343.2	341.1	339.0	334.8	334.8	332.6	326.2	324.1	313.4	307.0
62.5°	304.9	304.9	304.9	302.8	300.6	296.4	296.4	290.0	285.8	279.4	270.8
65°	270.8	270.8	270.8	268.6	264.4	262.2	260.1	255.9	251.6	245.2	236.6
67.5°	238.8	238.8	238.8	236.6	232.4	230.2	228.1	226.0	219.6	213.2	204.8
70°	209.0	209.0	206.9	204.8	202.5	200.4	198.2	194.0	189.8	181.2	174.9
72.5°	179.1	179.1	179.1	174.9	172.8	172.8	168.5	166.2	162.0	153.5	147.1
75°	151.4	149.2	149.2	147.1	145.0	142.9	140.8	138.6	132.2	127.9	119.4
77.5°	123.6	123.6	121.5	119.4	119.4	117.2	115.1	110.9	108.8	102.4	96.0
80°	96.0	96.0	96.0	96.0	93.9	91.6	91.6	87.4	85.2	78.9	74.6
82.5°	72.5	70.4	70.4	70.4	68.2	66.1	66.1	64.0	61.9	57.6	53.2
85°	42.6	40.5	40.5	40.5	38.4	38.4	36.2	36.2	34.1	29.9	29.9
87.5°	12.8	12.8	14.9	14.9	12.8	12.8	12.8	12.8	12.8	10.6	10.6
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°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1539.5	1545.9	1537.4	1535.2	1543.8	1539.5	1537.4	1533.0	1535.2	1530.9	1524.5
5°	1537.4	1545.9	1535.2	1528.8	1539.5	1533.0	1528.8	1524.5	1524.5	1516.0	1511.8
7.5°	1530.9	1535.2	1524.5	1518.1	1524.5	1518.1	1513.9	1507.5	1505.4	1494.6	1488.2
10°	1513.9	1518.1	1505.4	1496.8	1503.2	1494.6	1488.2	1481.9	1477.6	1464.9	1456.2
12.5°	1490.4	1492.5	1477.6	1467.0	1471.2	1464.9	1454.1	1445.6	1441.4	1428.6	1417.9
15°	1458.4	1460.5	1443.5	1428.6	1432.9	1424.4	1411.5	1403.0	1396.6	1383.8	1368.9
17.5°	1420.0	1417.9	1398.8	1383.8	1385.9	1375.2	1362.5	1349.6	1341.1	1326.2	1315.6
20°	1377.4	1371.0	1349.6	1332.6	1334.8	1322.0	1307.0	1294.2	1283.6	1270.8	1255.9
22.5°	1324.1	1315.6	1296.4	1275.0	1277.2	1266.5	1245.2	1234.5	1223.9	1206.9	1194.0
25°	1266.5	1253.8	1234.5	1213.2	1213.2	1200.4	1183.4	1170.6	1159.9	1142.9	1127.9
27.5°	1198.2	1191.9	1166.4	1149.2	1147.1	1134.4	1119.4	1104.5	1091.8	1076.8	1061.9
30°	1123.6	1113.0	1093.9	1074.6	1070.4	1059.8	1044.8	1027.8	1019.2	1004.2	991.5
32.5°	1044.8	1034.1	1012.8	993.6	991.5	983.0	970.1	953.1	944.6	933.9	925.4
35°	955.2	951.0	929.6	914.8	914.8	906.1	893.4	878.5	872.1	861.4	850.8
37.5°	870.0	863.5	844.4	831.5	831.5	820.9	808.1	801.8	795.4	786.8	780.4
40°	780.4	776.1	761.2	748.4	750.5	742.0	733.5	725.0	720.6	716.4	710.0
42.5°	697.2	693.0	682.2	671.6	671.6	665.2	656.8	650.4	646.0	639.6	637.5
45°	622.6	616.2	607.6	597.0	597.0	590.6	586.4	582.1	580.0	575.8	569.2
47.5°	550.1	545.9	537.4	526.6	526.6	526.6	518.1	511.8	511.8	507.5	505.4
50°	488.2	481.9	475.5	467.0	467.0	462.8	456.2	449.9	449.9	447.8	443.5
52.5°	430.8	426.5	417.9	409.4	409.4	405.1	398.8	396.6	394.5	388.0	385.9
55°	381.6	377.4	371.0	360.4	358.2	356.1	349.6	345.4	343.2	336.9	336.9
57.5°	336.9	332.6	322.0	315.6	313.4	309.1	302.8	298.5	296.4	292.1	287.9
60°	298.5	292.1	283.6	275.0	272.9	268.6	262.2	258.0	255.9	247.4	243.1
62.5°	262.2	255.9	247.4	238.8	236.6	232.4	223.9	219.6	215.4	206.9	202.5
65°	228.1	221.8	213.2	204.8	200.4	198.2	189.8	183.4	179.1	172.8	164.1
67.5°	196.1	189.8	181.2	170.6	170.6	164.1	157.8	151.4	145.0	138.6	132.2
70°	166.2	159.9	151.4	142.9	140.8	136.5	130.1	121.5	117.2	108.8	102.4
72.5°	138.6	132.2	123.6	115.1	113.0	108.8	102.4	93.9	87.4	81.0	74.6
75°	113.0	106.6	98.1	91.6	89.5	85.2	78.9	70.4	64.0	59.8	53.2
77.5°	89.5	83.1	76.8	70.4	68.2	64.0	57.6	53.2	46.9	42.6	36.2
80°	68.2	64.0	57.6	53.2	51.1	46.9	42.6	36.2	32.0	27.8	25.6
82.5°	49.0	44.8	40.5	34.1	34.1	29.9	27.8	23.5	19.2	17.0	14.9
85°	27.8	23.5	21.4	19.2	17.0	17.0	14.9	12.8	10.6	8.5	8.5
87.5°	8.5	8.5	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2
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°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1524.5	1526.6	1522.4	1526.6	1522.4	1524.5	1520.2	1524.5	1520.2	1524.5	1516.0
5°	1509.6	1509.6	1503.2	1507.5	1503.2	1505.4	1496.8	1499.0	1494.6	1499.0	1490.4
7.5°	1484.0	1486.1	1475.5	1479.8	1473.4	1473.4	1467.0	1469.1	1462.8	1464.9	1458.4
10°	1454.1	1452.0	1441.4	1445.6	1437.1	1437.1	1430.8	1430.8	1422.1	1424.4	1415.8
12.5°	1411.5	1409.4	1396.6	1400.9	1392.4	1392.4	1385.9	1385.9	1377.4	1381.6	1373.1
15°	1362.5	1360.4	1347.5	1349.6	1341.1	1341.1	1332.6	1334.8	1328.4	1332.6	1324.1
17.5°	1307.0	1304.9	1292.1	1294.2	1283.6	1285.8	1279.4	1277.2	1272.9	1275.0	1268.6
20°	1249.5	1245.2	1232.4	1234.5	1230.2	1223.9	1219.6	1221.8	1217.5	1221.8	1215.4
22.5°	1189.8	1181.2	1170.6	1170.6	1166.4	1166.4	1159.9	1164.1	1155.6	1162.0	1157.8
25°	1121.5	1115.1	1106.6	1110.9	1102.4	1102.4	1096.0	1098.1	1093.9	1098.1	1093.9
27.5°	1055.5	1051.1	1038.4	1042.6	1036.2	1038.4	1032.0	1034.1	1032.0	1036.2	1032.0
30°	985.1	983.0	974.4	974.4	972.2	970.1	968.0	968.0	965.9	972.2	968.0
32.5°	919.0	912.6	904.0	910.5	899.8	906.1	901.9	906.1	901.9	906.1	904.0
35°	850.8	848.6	838.0	840.1	838.0	838.0	835.9	835.9	835.9	842.2	842.2
37.5°	778.2	776.1	769.8	771.9	767.6	765.5	765.5	769.8	769.8	774.0	774.0
40°	707.9	710.0	703.6	703.6	701.5	701.5	701.5	705.8	703.6	707.9	705.8
42.5°	637.5	637.5	631.1	633.2	631.1	633.2	633.2	637.5	637.5	639.6	637.5
45°	571.4	571.4	569.2	571.4	567.1	569.2	567.1	571.4	569.2	571.4	571.4
47.5°	505.4	505.4	505.4	503.2	503.2	503.2	503.2	503.2	501.1	505.4	503.2
50°	443.5	445.6	443.5	443.5	441.4	443.5	441.4	441.4	437.1	439.2	439.2
52.5°	388.0	388.0	383.8	383.8	383.8	381.6	381.6	381.6	379.5	379.5	375.2
55°	334.8	334.8	330.5	330.5	328.4	326.2	324.1	324.1	317.8	317.8	311.2
57.5°	285.8	283.6	277.1	277.1	272.9	270.8	268.6	266.5	262.2	258.0	255.9
60°	241.0	236.6	232.4	230.2	226.0	221.8	217.5	213.2	209.0	206.9	204.8
62.5°	198.2	191.9	187.6	185.5	181.2	174.9	170.6	166.2	162.0	159.9	155.6
65°	159.9	153.5	147.1	145.0	140.8	136.5	130.1	125.8	121.5	119.4	119.4
67.5°	125.8	119.4	110.9	110.9	106.6	102.4	98.1	93.9	91.6	93.9	93.9
70°	93.9	89.5	83.1	81.0	76.8	72.5	70.4	70.4	70.4	72.5	70.4
72.5°	70.4	64.0	59.8	57.6	55.4	53.2	53.2	53.2	51.1	53.2	53.2
75°	49.0	44.8	40.5	40.5	38.4	38.4	38.4	38.4	38.4	38.4	38.4
77.5°	34.1	29.9	27.8	27.8	27.8	25.6	25.6	25.6	25.6	25.6	25.6
80°	21.4	21.4	19.2	19.2	17.0	17.0	17.0	17.0	17.0	17.0	17.0
82.5°	12.8	12.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2
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: P252488

CATALOG NUMBER: LE\_6B30D010 EC6B30509040 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1516.0	1522.4	1513.9	1520.2	1518.1	1516.0	1511.8	1520.2
5°	1490.4	1492.5	1484.0	1492.5	1490.4	1486.1	1481.9	1490.4
7.5°	1454.1	1460.5	1449.9	1458.4	1456.2	1452.0	1447.8	1456.2
10°	1413.6	1420.0	1411.5	1417.9	1417.9	1413.6	1407.2	1415.8
12.5°	1368.9	1373.1	1364.6	1373.1	1371.0	1366.8	1364.6	1371.0
15°	1319.9	1326.2	1317.8	1324.1	1322.0	1319.9	1317.8	1324.1
17.5°	1266.5	1272.9	1266.5	1272.9	1272.9	1266.5	1264.4	1268.6
20°	1213.2	1217.5	1211.1	1217.5	1215.4	1215.4	1211.1	1217.5
22.5°	1153.5	1159.9	1155.6	1159.9	1157.8	1157.8	1155.6	1159.9
25°	1093.9	1100.2	1093.9	1100.2	1098.1	1098.1	1093.9	1104.5
27.5°	1034.1	1038.4	1032.0	1040.5	1038.4	1034.1	1036.2	1038.4
30°	970.1	974.4	970.1	976.5	976.5	976.5	972.2	976.5
32.5°	906.1	912.6	906.1	912.6	910.5	910.5	908.4	912.6
35°	842.2	844.4	840.1	846.5	846.5	848.6	844.4	850.8
37.5°	776.1	778.2	776.1	778.2	782.5	776.1	780.4	782.5
40°	707.9	712.1	710.0	712.1	712.1	714.2	712.1	714.2
42.5°	639.6	643.9	639.6	646.0	643.9	643.9	646.0	646.0
45°	569.2	575.8	571.4	575.8	577.9	575.8	575.8	580.0
47.5°	503.2	507.5	505.4	507.5	507.5	507.5	507.5	511.8
50°	437.1	439.2	439.2	441.4	441.4	443.5	439.2	441.4
52.5°	371.0	375.2	375.2	375.2	373.1	375.2	375.2	375.2
55°	311.2	313.4	309.1	313.4	313.4	311.2	311.2	315.6
57.5°	253.8	253.8	253.8	253.8	253.8	251.6	253.8	253.8
60°	200.4	202.5	200.4	200.4	200.4	200.4	198.2	202.5
62.5°	155.6	155.6	153.5	155.6	155.6	155.6	157.8	157.8
65°	121.5	123.6	121.5	123.6	123.6	123.6	123.6	125.8
67.5°	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
70°	72.5	72.5	72.5	74.6	72.5	72.5	72.5	74.6
72.5°	53.2	53.2	53.2	53.2	53.2	53.2	55.4	55.4
75°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
77.5°	25.6	25.6	25.6	27.8	25.6	27.8	25.6	25.6
80°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
82.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	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



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















(END OF REPORT)