

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: P252697

Luminaire Tested: **LE\_6B30D010 EC6B30509050 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509050 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3005.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

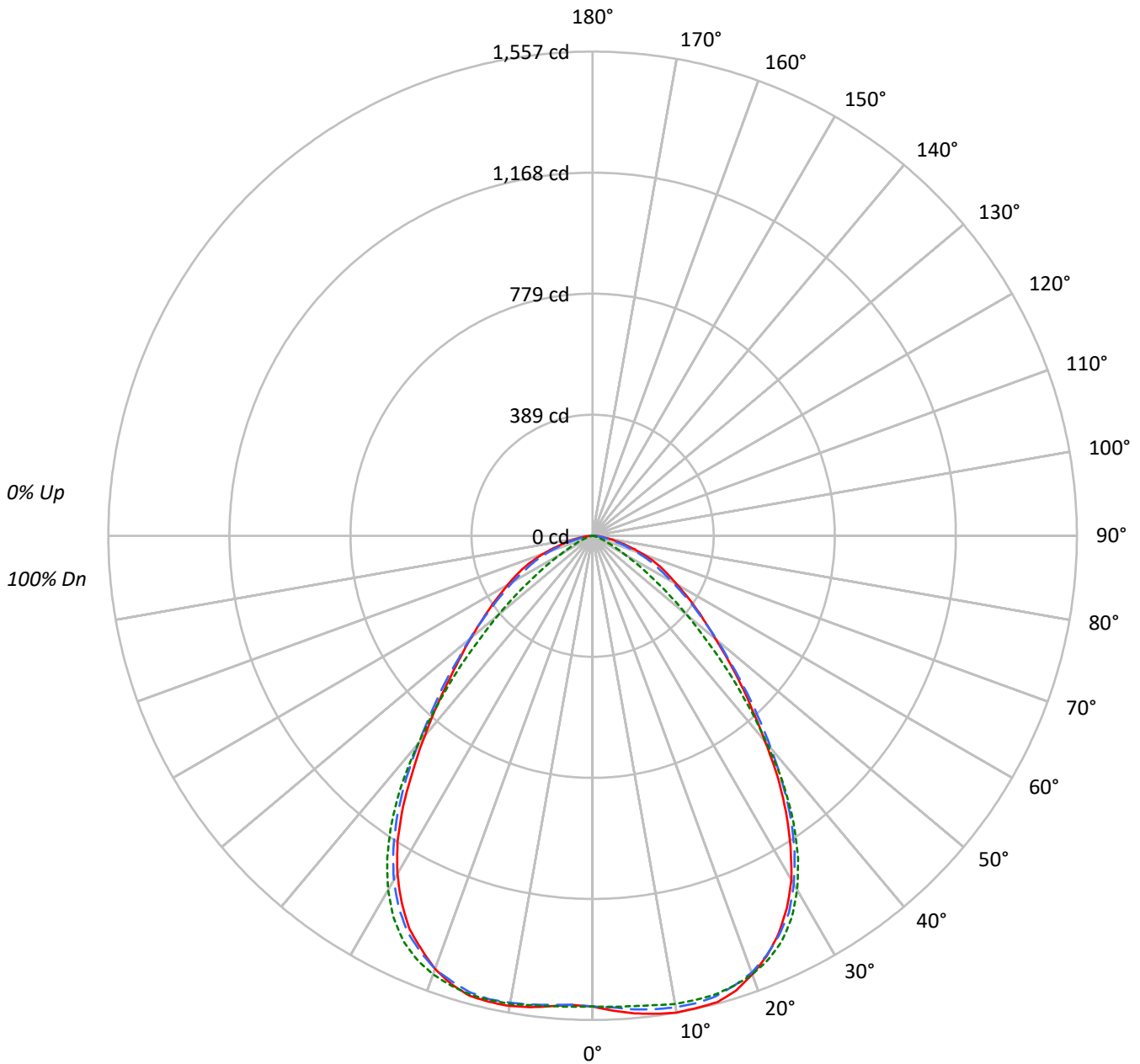
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

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

	0°	90°	180°
0°	98774	98774	98774
5°	100979	99427	99427
10°	103133	101292	101716
15°	104859	103130	103414
20°	104218	104218	102885
25°	101744	103587	100354
30°	96306	99056	94536
35°	86294	89711	84590
40°	73319	74222	71488
45°	62038	56706	59870
50°	52382	39990	51723
55°	46043	25820	45554
60°	40788	15371	41075
65°	37682	9262	37682
70°	32695	5322	31855
75°	25913	3252	24300
80°	19311	2405	18485
85°	17591	1572	16019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	4.9
10°-20°	431.4	14.4
20°-30°	648.8	21.6
30°-40°	682.1	22.7
40°-50°	509.6	17.0
50°-60°	317.2	10.6
60°-70°	180.4	6.0
70°-80°	74.3	2.5
80°-90°	15.4	0.5
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°	1225.9	40.8
0°-40°	1908.1	63.5
0°-60°	2734.9	91.0
0°-90°	3005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1514	1514	1514	1514	1514	
5°	1542	1529	1518	1514	1518	148
15°	1552	1533	1527	1520	1531	436
25°	1413	1418	1439	1407	1394	647
35°	1084	1111	1126	1094	1062	672
45°	672	687	615	674	649	521
55°	405	396	227	390	400	364
65°	244	218	60	218	244	240
75°	103	81	13	79	96	112
85°	24	15	2	13	21	26
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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1529.0	1526.9	1529.0	1524.8	1522.5	1522.5	1524.8	1520.4	1518.2	1520.4	1518.2
5°	1541.9	1537.5	1539.6	1537.5	1533.2	1533.2	1535.4	1529.0	1529.0	1531.1	1529.0
7.5°	1550.4	1550.4	1550.4	1546.1	1544.0	1541.9	1546.1	1539.6	1537.5	1537.5	1535.4
10°	1556.8	1554.6	1556.8	1552.5	1548.2	1546.1	1550.4	1546.1	1541.9	1546.1	1539.6
12.5°	1554.6	1554.6	1554.6	1552.5	1548.2	1546.1	1550.4	1544.0	1541.9	1544.0	1539.6
15°	1552.5	1546.1	1548.2	1546.1	1539.6	1539.6	1541.9	1535.4	1531.1	1537.5	1533.2
17.5°	1533.2	1529.0	1531.1	1526.9	1522.5	1520.4	1522.5	1520.4	1516.1	1520.4	1516.1
20°	1501.1	1501.1	1503.2	1499.0	1494.8	1492.6	1496.9	1492.6	1488.2	1494.8	1494.8
22.5°	1462.6	1462.6	1462.6	1460.5	1458.2	1458.2	1458.2	1456.1	1454.0	1458.2	1460.5
25°	1413.4	1411.2	1413.4	1415.5	1413.4	1411.2	1413.4	1413.4	1409.0	1417.6	1417.6
27.5°	1351.2	1351.2	1355.5	1353.4	1353.4	1351.2	1355.5	1355.5	1353.4	1359.8	1366.2
30°	1278.4	1274.1	1278.4	1278.4	1280.6	1280.6	1282.8	1282.8	1282.8	1289.1	1293.4
32.5°	1184.2	1186.4	1192.8	1190.6	1188.5	1194.9	1194.9	1199.2	1201.4	1205.6	1207.8
35°	1083.5	1085.8	1085.8	1087.9	1092.1	1087.9	1098.5	1096.4	1098.5	1107.1	1111.4
37.5°	976.5	970.1	980.8	976.5	978.6	978.6	982.9	985.0	991.5	1002.1	1002.1
40°	860.9	863.0	867.2	869.4	871.5	871.5	871.5	878.0	880.1	893.0	890.9
42.5°	760.2	760.2	764.5	766.6	766.6	766.6	766.6	773.0	777.4	781.6	785.9
45°	672.4	666.0	670.2	670.2	674.5	672.4	676.8	681.0	683.1	689.5	687.4
47.5°	588.9	586.8	588.9	591.0	588.9	591.0	593.1	595.4	597.5	597.5	597.5
50°	516.1	516.1	518.2	520.4	520.4	520.4	520.4	522.5	522.5	526.8	522.5
52.5°	456.1	458.2	458.2	456.1	458.2	458.2	460.4	460.4	458.2	458.2	451.9
55°	404.8	402.6	404.8	402.6	404.8	404.8	402.6	402.6	400.5	398.2	396.1
57.5°	355.5	355.5	355.5	355.5	353.4	355.5	353.4	351.2	351.2	346.9	340.5
60°	312.6	312.6	312.6	312.6	312.6	310.5	312.6	310.5	306.2	302.0	293.4
62.5°	276.2	274.1	276.2	274.1	274.1	272.0	272.0	269.9	265.5	261.2	252.6
65°	244.1	246.2	244.1	244.1	242.0	239.9	239.9	237.8	231.2	227.0	218.4
67.5°	209.9	207.8	207.8	207.8	205.6	205.6	205.6	201.2	197.0	190.6	182.0
70°	171.4	171.4	171.4	169.1	169.1	167.0	167.0	164.9	160.6	156.4	145.6
72.5°	134.9	134.9	134.9	130.6	132.8	130.6	130.6	126.4	124.2	117.8	111.4
75°	102.8	102.8	100.6	100.6	98.5	96.4	96.4	94.2	92.1	87.8	81.4
77.5°	75.0	75.0	75.0	72.8	70.6	68.5	68.5	66.4	64.2	62.1	57.9
80°	51.4	51.4	51.4	51.4	49.2	47.1	47.1	45.0	45.0	42.9	38.5
82.5°	34.2	34.2	34.2	34.2	32.1	32.1	32.1	30.0	27.9	27.9	23.5
85°	23.5	23.5	21.4	21.4	21.4	21.4	19.2	19.2	17.1	15.0	15.0
87.5°	12.9	12.9	12.9	12.9	10.8	10.8	10.8	10.8	8.6	8.6	6.4
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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1524.8	1524.8	1522.5	1516.1	1518.2	1516.1	1518.2	1516.1	1509.8	1516.1	1509.8
5°	1533.2	1535.4	1531.1	1522.5	1524.8	1522.5	1522.5	1520.4	1514.0	1518.2	1514.0
7.5°	1541.9	1539.6	1537.5	1529.0	1531.1	1529.0	1529.0	1524.8	1518.2	1522.5	1516.1
10°	1546.1	1546.1	1541.9	1533.2	1533.2	1531.1	1533.2	1531.1	1522.5	1529.0	1524.8
12.5°	1546.1	1544.0	1544.0	1533.2	1535.4	1533.2	1535.4	1531.1	1524.8	1529.0	1526.9
15°	1539.6	1539.6	1537.5	1526.9	1529.0	1529.0	1531.1	1526.9	1520.4	1526.9	1522.5
17.5°	1526.9	1526.9	1524.8	1516.1	1520.4	1520.4	1522.5	1518.2	1511.9	1516.1	1516.1
20°	1501.1	1503.2	1503.2	1496.9	1501.1	1501.1	1503.2	1501.1	1499.0	1501.1	1496.9
22.5°	1471.1	1475.5	1475.5	1469.0	1473.2	1473.2	1479.8	1477.6	1473.2	1475.5	1473.2
25°	1426.1	1430.5	1434.8	1430.5	1434.8	1434.8	1441.1	1439.0	1434.8	1439.0	1432.6
27.5°	1374.8	1376.9	1381.2	1376.9	1383.4	1381.2	1387.6	1385.5	1379.1	1385.5	1383.4
30°	1302.0	1310.5	1317.0	1310.5	1317.0	1317.0	1321.2	1319.1	1317.0	1314.9	1314.9
32.5°	1220.6	1229.1	1229.1	1227.0	1231.4	1231.4	1233.5	1229.1	1227.0	1229.1	1231.4
35°	1120.0	1124.2	1128.5	1126.4	1128.5	1130.6	1128.5	1130.6	1124.2	1126.4	1126.4
37.5°	1010.8	1015.0	1015.0	1008.6	1012.9	1012.9	1008.6	1008.6	1004.4	1008.6	1000.0
40°	895.1	890.9	893.0	888.8	884.4	884.4	882.2	873.8	869.4	871.5	873.8
42.5°	781.6	781.6	775.2	764.5	753.8	753.8	747.4	743.1	734.5	738.8	736.6
45°	685.2	674.5	666.0	648.9	642.4	638.1	627.4	616.8	612.5	614.6	612.5
47.5°	593.1	584.6	563.2	539.6	533.2	526.8	514.0	501.1	496.8	492.5	492.5
50°	516.1	501.1	477.5	451.9	441.1	430.4	413.2	400.5	391.9	394.0	394.0
52.5°	445.4	428.2	400.5	368.4	355.5	342.6	327.6	312.6	306.2	304.1	304.1
55°	383.4	364.0	336.2	299.8	289.1	274.1	254.9	237.8	229.1	227.0	231.2
57.5°	327.6	310.5	278.4	242.0	229.1	214.1	194.9	179.9	169.1	167.0	169.1
60°	282.6	259.1	231.2	197.0	179.9	167.0	145.6	132.8	122.0	117.8	119.9
62.5°	237.8	216.2	188.5	154.1	141.4	128.5	109.2	94.2	85.6	83.5	85.6
65°	203.4	182.0	156.4	126.4	113.5	100.6	83.5	68.5	62.1	60.0	62.1
67.5°	169.1	149.9	128.5	100.6	90.0	79.2	62.1	51.4	42.9	40.6	42.9
70°	137.0	119.9	98.5	79.2	68.5	60.0	47.1	36.4	30.0	27.9	30.0
72.5°	102.8	90.0	75.0	57.9	51.4	45.0	34.2	25.8	21.4	19.2	21.4
75°	75.0	64.2	53.5	40.6	36.4	32.1	23.5	17.1	15.0	12.9	15.0
77.5°	51.4	45.0	36.4	27.9	23.5	21.4	15.0	12.9	10.8	8.6	8.6
80°	34.2	30.0	23.5	19.2	17.1	15.0	10.8	8.6	6.4	6.4	6.4
82.5°	21.4	17.1	15.0	10.8	8.6	8.6	6.4	4.2	4.2	4.2	4.2
85°	12.9	10.8	8.6	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	6.4	4.2	4.2	2.1	2.1	2.1	2.1	2.1	0.0	0.0	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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1514.0	1509.8	1509.8	1511.9	1514.0	1516.1	1511.9	1509.8	1509.8	1516.1	1511.9
5°	1514.0	1511.9	1511.9	1511.9	1516.1	1518.2	1514.0	1511.9	1514.0	1520.4	1518.2
7.5°	1520.4	1516.1	1518.2	1518.2	1520.4	1524.8	1520.4	1518.2	1520.4	1526.9	1522.5
10°	1524.8	1520.4	1522.5	1520.4	1526.9	1529.0	1524.8	1522.5	1524.8	1533.2	1531.1
12.5°	1526.9	1524.8	1524.8	1522.5	1529.0	1531.1	1526.9	1524.8	1526.9	1533.2	1531.1
15°	1522.5	1520.4	1520.4	1520.4	1524.8	1529.0	1522.5	1520.4	1520.4	1526.9	1524.8
17.5°	1514.0	1509.8	1509.8	1509.8	1511.9	1514.0	1507.5	1505.4	1503.2	1509.8	1507.5
20°	1499.0	1494.8	1490.4	1490.4	1492.6	1492.6	1488.2	1481.9	1481.9	1484.0	1479.8
22.5°	1471.1	1469.0	1464.8	1462.6	1466.9	1464.8	1456.1	1449.8	1447.6	1449.8	1445.5
25°	1432.6	1428.4	1426.1	1424.0	1426.1	1424.0	1415.5	1406.9	1406.9	1406.9	1400.5
27.5°	1379.1	1374.8	1372.6	1372.6	1374.8	1370.5	1362.0	1353.4	1349.1	1349.1	1342.6
30°	1310.5	1310.5	1308.4	1306.2	1304.1	1304.1	1291.2	1282.8	1278.4	1280.6	1276.2
32.5°	1227.0	1224.9	1222.8	1216.4	1218.5	1216.4	1205.6	1199.2	1192.8	1188.5	1186.4
35°	1120.0	1120.0	1117.9	1117.9	1117.9	1115.6	1105.0	1098.5	1094.2	1092.1	1085.8
37.5°	1002.1	1000.0	997.9	997.9	997.9	997.9	991.5	985.0	985.0	982.9	978.6
40°	869.4	871.5	873.8	871.5	878.0	884.4	875.9	871.5	869.4	875.9	867.2
42.5°	740.9	738.8	749.5	751.6	751.6	762.4	764.5	766.6	764.5	768.8	768.8
45°	616.8	614.6	625.2	629.6	640.2	653.1	659.5	670.2	674.5	678.9	674.5
47.5°	499.0	507.5	516.1	526.8	535.4	556.8	569.6	580.4	584.6	591.0	591.0
50°	400.5	409.0	424.0	432.6	443.2	469.0	490.4	505.4	514.0	520.4	518.2
52.5°	308.4	323.4	342.6	351.2	366.1	396.1	419.8	436.9	447.5	454.0	456.1
55°	237.8	250.5	269.9	282.6	297.6	329.8	359.8	379.0	389.8	398.2	402.6
57.5°	175.6	190.6	212.0	222.8	239.9	276.2	302.0	325.5	338.4	349.0	351.2
60°	128.5	143.5	162.8	175.6	192.8	229.1	259.1	280.5	295.5	304.1	308.4
62.5°	92.1	107.1	126.4	139.2	154.1	186.2	216.2	237.8	252.6	263.4	269.9
65°	66.4	81.4	100.6	111.4	124.2	154.1	182.0	203.4	218.4	231.2	235.5
67.5°	49.2	60.0	77.1	87.8	100.6	124.2	147.8	167.0	182.0	192.8	197.0
70°	36.4	45.0	60.0	66.4	75.0	96.4	115.6	132.8	145.6	154.1	158.5
72.5°	25.8	32.1	42.9	49.2	55.6	72.8	87.8	100.6	109.2	117.8	122.0
75°	17.1	21.4	30.0	34.2	38.5	51.4	62.1	72.8	79.2	85.6	87.8
77.5°	10.8	15.0	21.4	23.5	27.9	34.2	42.9	49.2	53.5	57.9	62.1
80°	6.4	8.6	12.9	15.0	17.1	23.5	27.9	32.1	36.4	40.6	42.9
82.5°	4.2	6.4	8.6	8.6	10.8	12.9	17.1	21.4	23.5	25.8	27.9
85°	2.1	2.1	4.2	4.2	6.4	6.4	8.6	10.8	12.9	15.0	17.1
87.5°	2.1	2.1	2.1	2.1	4.2	4.2	6.4	6.4	6.4	8.6	8.6
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: P252697

CATALOG NUMBER: LE\_6B30D010 EC6B30509050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1507.5	1514.0	1507.5	1511.9	1509.8	1509.8	1507.5	1509.8
5°	1514.0	1522.5	1514.0	1520.4	1516.1	1516.1	1516.1	1518.2
7.5°	1520.4	1529.0	1522.5	1529.0	1526.9	1524.8	1524.8	1529.0
10°	1526.9	1533.2	1529.0	1535.4	1533.2	1531.1	1531.1	1535.4
12.5°	1526.9	1535.4	1531.1	1537.5	1535.4	1533.2	1533.2	1535.4
15°	1520.4	1531.1	1524.8	1531.1	1529.0	1526.9	1526.9	1531.1
17.5°	1501.1	1509.8	1505.4	1509.8	1509.8	1507.5	1509.8	1511.9
20°	1475.5	1481.9	1477.6	1481.9	1481.9	1477.6	1479.8	1481.9
22.5°	1439.0	1445.5	1441.1	1445.5	1443.4	1441.1	1441.1	1439.0
25°	1394.1	1402.6	1396.2	1400.5	1396.2	1391.9	1391.9	1394.1
27.5°	1338.4	1344.8	1336.2	1340.5	1336.2	1332.0	1332.0	1329.9
30°	1265.6	1267.8	1261.2	1265.6	1261.2	1259.1	1254.9	1254.9
32.5°	1177.8	1179.9	1173.5	1173.5	1169.2	1169.2	1160.6	1167.1
35°	1075.0	1077.1	1075.0	1072.9	1066.4	1064.2	1062.1	1062.1
37.5°	967.9	967.9	961.5	959.4	955.1	950.8	952.9	946.5
40°	858.8	856.6	850.1	852.2	850.1	843.8	841.6	839.4
42.5°	755.9	755.9	749.5	751.6	747.4	745.2	738.8	740.9
45°	666.0	666.0	659.5	659.5	657.4	651.0	653.1	648.9
47.5°	584.6	584.6	582.5	582.5	576.0	573.9	573.9	573.9
50°	514.0	514.0	514.0	514.0	511.8	509.6	507.5	509.6
52.5°	454.0	458.2	456.1	456.1	454.0	451.9	449.8	449.8
55°	400.5	402.6	402.6	404.8	402.6	400.5	402.6	400.5
57.5°	353.4	357.6	357.6	357.6	357.6	357.6	355.5	353.4
60°	312.6	314.8	314.8	316.9	316.9	316.9	314.8	314.8
62.5°	272.0	276.2	278.4	278.4	280.5	278.4	278.4	278.4
65°	239.9	244.1	246.2	244.1	246.2	246.2	244.1	244.1
67.5°	201.2	205.6	205.6	205.6	205.6	207.8	205.6	205.6
70°	162.8	167.0	164.9	167.0	167.0	167.0	167.0	167.0
72.5°	124.2	126.4	128.5	128.5	130.6	128.5	128.5	128.5
75°	90.0	94.2	94.2	94.2	94.2	96.4	96.4	96.4
77.5°	64.2	66.4	66.4	68.5	68.5	68.5	68.5	70.6
80°	45.0	45.0	47.1	47.1	49.2	49.2	49.2	49.2
82.5°	30.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1
85°	17.1	19.2	19.2	19.2	19.2	21.4	21.4	21.4
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	8.6	8.6
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)