

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: io LED

Report Number: P252482

Luminaire Tested: **LD6B30D010 EU6B30508040 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252482  
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: io LED  
Catalog Number: LD6B30D010 EU6B30508040 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2599.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 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

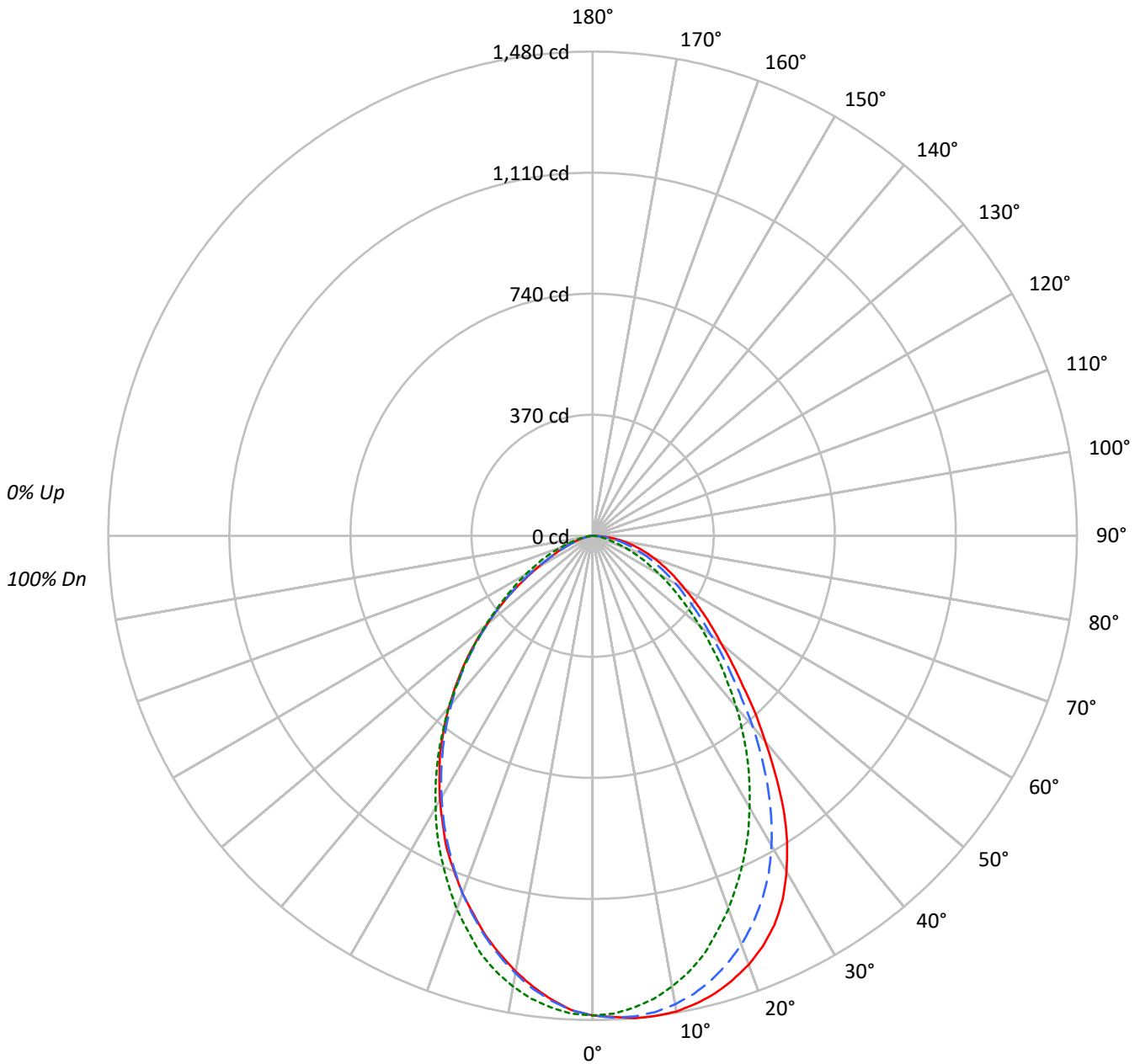
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°	90°	180°
0°	95656	95656	95656
5°	96958	94823	93225
10°	97807	92680	89579
15°	97794	89264	85414
20°	96845	84264	80730
25°	94552	78572	75937
30°	89285	72260	70263
35°	80934	65523	64711
40°	69895	58270	58100
45°	59935	50727	51105
50°	52088	43400	42781
55°	46794	36603	34282
60°	42511	30820	25248
65°	39921	25456	18540
70°	38074	19819	13601
75°	36449	14368	9251
80°	34415	9956	6124
85°	30466	6063	3069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	5.3
10°-20°	375.6	14.5
20°-30°	521.5	20.1
30°-40°	540.2	20.8
40°-50°	443.9	17.1
50°-60°	305.1	11.7
60°-70°	175.4	6.7
70°-80°	80.6	3.1
80°-90°	19.6	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°	1034.3	39.8
0°-40°	1574.4	60.6
0°-60°	2323.4	89.4
0°-90°	2599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1466	1466	1466	1466	1466	
5°	1480	1474	1448	1428	1424	141
15°	1448	1405	1322	1269	1265	408
25°	1314	1226	1092	1045	1055	601
35°	1016	933	823	798	812	630
45°	650	601	550	544	554	506
55°	411	373	322	303	301	370
65°	259	226	165	116	120	257
75°	145	114	57	37	37	153
85°	41	28	8	4	4	46
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°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1472.3	1484.5	1476.4	1474.4	1478.4	1478.4	1478.4	1472.3	1476.4	1470.3	1474.4
5°	1480.5	1490.7	1482.5	1478.4	1482.5	1484.5	1478.4	1474.4	1480.5	1472.3	1474.4
7.5°	1480.5	1490.7	1482.5	1480.5	1482.5	1482.5	1480.5	1472.3	1476.4	1468.3	1468.3
10°	1476.4	1484.5	1476.4	1472.3	1474.4	1472.3	1472.3	1462.1	1464.2	1454.0	1454.0
12.5°	1464.2	1474.4	1464.2	1460.1	1460.1	1460.1	1454.0	1445.9	1447.9	1435.7	1433.6
15°	1447.9	1456.0	1445.9	1441.8	1441.8	1439.7	1435.7	1423.5	1423.5	1411.2	1405.1
17.5°	1423.5	1431.6	1423.5	1417.3	1415.3	1411.2	1407.2	1394.9	1390.9	1376.6	1370.5
20°	1394.9	1401.1	1392.9	1386.8	1382.7	1378.7	1370.5	1358.3	1354.2	1340.0	1329.8
22.5°	1358.3	1366.4	1354.2	1348.1	1344.0	1337.9	1329.8	1317.6	1311.5	1293.1	1280.9
25°	1313.5	1317.6	1307.4	1301.3	1293.1	1289.1	1282.9	1266.7	1260.5	1240.2	1225.9
27.5°	1256.5	1260.5	1248.3	1244.3	1234.1	1230.0	1221.9	1207.6	1199.5	1179.1	1164.8
30°	1185.2	1189.3	1181.1	1175.0	1166.9	1158.7	1152.6	1138.4	1126.1	1105.8	1093.6
32.5°	1105.8	1111.9	1103.7	1095.6	1081.3	1083.4	1073.2	1058.9	1048.8	1030.4	1016.2
35°	1016.2	1020.2	1010.1	1008.0	999.9	991.7	981.6	971.4	965.3	944.9	932.7
37.5°	916.4	926.6	916.4	908.2	904.2	898.1	892.0	877.7	873.6	861.4	845.1
40°	820.7	826.8	820.7	812.5	806.4	806.4	798.3	790.1	779.9	767.7	761.6
42.5°	735.1	731.1	729.0	725.0	716.8	714.8	712.7	702.6	696.5	684.2	674.1
45°	649.6	651.7	647.6	645.5	639.4	635.4	631.3	623.1	621.1	608.9	600.7
47.5°	578.3	576.3	572.2	572.2	568.2	564.1	560.0	553.9	551.9	541.7	533.5
50°	513.2	515.2	513.2	511.1	505.0	503.0	498.9	494.8	490.8	480.6	472.4
52.5°	460.2	458.2	456.2	456.2	450.0	448.0	443.9	439.9	435.8	425.6	419.5
55°	411.4	411.4	409.3	407.3	401.2	399.1	397.1	393.0	386.9	378.8	372.7
57.5°	366.6	366.6	364.5	362.5	358.4	358.4	354.3	350.3	346.2	338.0	329.9
60°	325.8	327.9	325.8	323.8	319.7	319.7	317.7	311.6	309.5	299.4	293.2
62.5°	291.2	291.2	291.2	289.2	287.1	283.1	283.1	277.0	272.9	266.8	258.6
65°	258.6	258.6	258.6	256.6	252.5	250.5	248.4	244.4	240.3	234.2	226.0
67.5°	228.1	228.1	228.1	226.0	222.0	219.9	217.9	215.9	209.8	203.6	195.5
70°	199.6	199.6	197.5	195.5	193.5	191.4	189.4	185.3	181.2	173.1	167.0
72.5°	171.1	171.1	171.1	167.0	164.9	164.9	160.9	158.8	154.8	146.6	140.5
75°	144.6	142.5	142.5	140.5	138.5	136.4	134.4	132.4	126.3	122.2	114.0
77.5°	118.1	118.1	116.1	114.0	114.0	112.0	110.0	105.9	103.9	97.7	91.6
80°	91.6	91.6	91.6	91.6	89.6	87.6	87.6	83.5	81.5	75.3	71.3
82.5°	69.2	67.2	67.2	67.2	65.2	63.1	63.1	61.1	59.1	55.0	50.9
85°	40.7	38.7	38.7	38.7	36.7	36.7	34.6	34.6	32.6	28.5	28.5
87.5°	12.2	12.2	14.3	14.3	12.2	12.2	12.2	12.2	12.2	10.2	10.2
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1470.3	1476.4	1468.3	1466.2	1474.4	1470.3	1468.3	1464.2	1466.2	1462.1	1456.0
5°	1468.3	1476.4	1466.2	1460.1	1470.3	1464.2	1460.1	1456.0	1456.0	1447.9	1443.8
7.5°	1462.1	1466.2	1456.0	1449.9	1456.0	1449.9	1445.9	1439.7	1437.7	1427.5	1421.4
10°	1445.9	1449.9	1437.7	1429.6	1435.7	1427.5	1421.4	1415.3	1411.2	1399.0	1390.9
12.5°	1423.5	1425.5	1411.2	1401.1	1405.1	1399.0	1388.8	1380.7	1376.6	1364.4	1354.2
15°	1392.9	1394.9	1378.7	1364.4	1368.5	1360.3	1348.1	1340.0	1333.9	1321.6	1307.4
17.5°	1356.3	1354.2	1335.9	1321.6	1323.7	1313.5	1301.3	1289.1	1280.9	1266.7	1256.5
20°	1315.5	1309.4	1289.1	1272.8	1274.8	1262.6	1248.3	1236.1	1225.9	1213.7	1199.5
22.5°	1264.6	1256.5	1238.1	1217.8	1219.8	1209.6	1189.3	1179.1	1168.9	1152.6	1140.4
25°	1209.6	1197.4	1179.1	1158.7	1158.7	1146.5	1130.2	1118.0	1107.8	1091.5	1077.3
27.5°	1144.5	1138.4	1113.9	1097.6	1095.6	1083.4	1069.1	1054.9	1042.6	1028.4	1014.1
30°	1073.2	1063.0	1044.7	1026.4	1022.3	1012.1	997.8	981.6	973.4	959.2	946.9
32.5°	997.8	987.7	967.3	949.0	946.9	938.8	926.6	910.3	902.1	892.0	883.8
35°	912.3	908.2	887.9	873.6	873.6	865.5	853.3	839.0	832.9	822.7	812.5
37.5°	830.9	824.7	806.4	794.2	794.2	784.0	771.8	765.7	759.6	751.4	745.3
40°	745.3	741.3	727.0	714.8	716.8	708.7	700.5	692.4	688.3	684.2	678.1
42.5°	665.9	661.8	651.7	641.5	641.5	635.4	627.2	621.1	617.0	610.9	608.9
45°	594.6	588.5	580.4	570.2	570.2	564.1	560.0	555.9	553.9	549.8	543.7
47.5°	525.4	521.3	513.2	503.0	503.0	503.0	494.8	488.7	488.7	484.7	482.6
50°	466.3	460.2	454.1	446.0	446.0	441.9	435.8	429.7	429.7	427.6	423.6
52.5°	411.4	407.3	399.1	391.0	391.0	386.9	380.8	378.8	376.7	370.6	368.6
55°	364.5	360.4	354.3	344.2	342.1	340.1	334.0	329.9	327.9	321.8	321.8
57.5°	321.8	317.7	307.5	301.4	299.4	295.3	289.2	285.1	283.1	279.0	274.9
60°	285.1	279.0	270.8	262.7	260.7	256.6	250.5	246.4	244.4	236.2	232.2
62.5°	250.5	244.4	236.2	228.1	226.0	222.0	213.8	209.8	205.7	197.5	193.5
65°	217.9	211.8	203.6	195.5	191.4	189.4	181.2	175.1	171.1	164.9	156.8
67.5°	187.4	181.2	173.1	162.9	162.9	156.8	150.7	144.6	138.5	132.4	126.3
70°	158.8	152.7	144.6	136.4	134.4	130.3	124.2	116.1	112.0	103.9	97.7
72.5°	132.4	126.3	118.1	110.0	107.9	103.9	97.7	89.6	83.5	77.4	71.3
75°	107.9	101.8	93.7	87.6	85.5	81.5	75.3	67.2	61.1	57.0	50.9
77.5°	85.5	79.4	73.3	67.2	65.2	61.1	55.0	50.9	44.8	40.7	34.6
80°	65.2	61.1	55.0	50.9	48.9	44.8	40.7	34.6	30.5	26.5	24.4
82.5°	46.8	42.8	38.7	32.6	32.6	28.5	26.5	22.4	18.3	16.3	14.3
85°	26.5	22.4	20.4	18.3	16.3	16.3	14.3	12.2	10.2	8.1	8.1
87.5°	8.1	8.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1
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°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1456.0	1458.1	1454.0	1458.1	1454.0	1456.0	1452.0	1456.0	1452.0	1456.0	1447.9
5°	1441.8	1441.8	1435.7	1439.7	1435.7	1437.7	1429.6	1431.6	1427.5	1431.6	1423.5
7.5°	1417.3	1419.4	1409.2	1413.3	1407.2	1407.2	1401.1	1403.1	1397.0	1399.0	1392.9
10°	1388.8	1386.8	1376.6	1380.7	1372.5	1372.5	1366.4	1366.4	1358.3	1360.3	1352.2
12.5°	1348.1	1346.1	1333.9	1337.9	1329.8	1329.8	1323.7	1323.7	1315.5	1319.6	1311.5
15°	1301.3	1299.2	1287.0	1289.1	1280.9	1280.9	1272.8	1274.8	1268.7	1272.8	1264.6
17.5°	1248.3	1246.3	1234.1	1236.1	1225.9	1228.0	1221.9	1219.8	1215.7	1217.8	1211.7
20°	1193.3	1189.3	1177.0	1179.1	1175.0	1168.9	1164.8	1166.9	1162.8	1166.9	1160.8
22.5°	1136.3	1128.2	1118.0	1118.0	1113.9	1113.9	1107.8	1111.9	1103.7	1109.8	1105.8
25°	1071.2	1065.0	1056.9	1061.0	1052.8	1052.8	1046.7	1048.8	1044.7	1048.8	1044.7
27.5°	1008.0	1004.0	991.7	995.8	989.7	991.7	985.6	987.7	985.6	989.7	985.6
30°	940.8	938.8	930.6	930.6	928.6	926.6	924.5	924.5	922.5	928.6	924.5
32.5°	877.7	871.6	863.4	869.6	859.4	865.5	861.4	865.5	861.4	865.5	863.4
35°	812.5	810.5	800.3	802.3	800.3	800.3	798.3	798.3	798.3	804.4	804.4
37.5°	743.3	741.3	735.1	737.2	733.1	731.1	731.1	735.1	735.1	739.2	739.2
40°	676.1	678.1	672.0	672.0	670.0	670.0	670.0	674.1	672.0	676.1	674.1
42.5°	608.9	608.9	602.8	604.8	602.8	604.8	604.8	608.9	608.9	610.9	608.9
45°	545.8	545.8	543.7	545.8	541.7	543.7	541.7	545.8	543.7	545.8	545.8
47.5°	482.6	482.6	482.6	480.6	480.6	480.6	480.6	480.6	478.6	482.6	480.6
50°	423.6	425.6	423.6	423.6	421.5	423.6	421.5	421.5	417.5	419.5	419.5
52.5°	370.6	370.6	366.6	366.6	366.6	364.5	364.5	364.5	362.5	362.5	358.4
55°	319.7	319.7	315.6	315.6	313.6	311.6	309.5	309.5	303.4	303.4	297.3
57.5°	272.9	270.8	264.7	264.7	260.7	258.6	256.6	254.6	250.5	246.4	244.4
60°	230.1	226.0	222.0	219.9	215.9	211.8	207.7	203.6	199.6	197.5	195.5
62.5°	189.4	183.3	179.2	177.2	173.1	167.0	162.9	158.8	154.8	152.7	148.7
65°	152.7	146.6	140.5	138.5	134.4	130.3	124.2	120.1	116.1	114.0	114.0
67.5°	120.1	114.0	105.9	105.9	101.8	97.7	93.7	89.6	87.6	89.6	89.6
70°	89.6	85.5	79.4	77.4	73.3	69.2	67.2	67.2	67.2	69.2	67.2
72.5°	67.2	61.1	57.0	55.0	52.9	50.9	50.9	50.9	48.9	50.9	50.9
75°	46.8	42.8	38.7	38.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
77.5°	32.6	28.5	26.5	26.5	26.5	24.4	24.4	24.4	24.4	24.4	24.4
80°	20.4	20.4	18.3	18.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
82.5°	12.2	12.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
85°	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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: P252482

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1447.9	1454.0	1445.9	1452.0	1449.9	1447.9	1443.8	1452.0
5°	1423.5	1425.5	1417.3	1425.5	1423.5	1419.4	1415.3	1423.5
7.5°	1388.8	1394.9	1384.8	1392.9	1390.9	1386.8	1382.7	1390.9
10°	1350.1	1356.3	1348.1	1354.2	1354.2	1350.1	1344.0	1352.2
12.5°	1307.4	1311.5	1303.3	1311.5	1309.4	1305.3	1303.3	1309.4
15°	1260.5	1266.7	1258.5	1264.6	1262.6	1260.5	1258.5	1264.6
17.5°	1209.6	1215.7	1209.6	1215.7	1215.7	1209.6	1207.6	1211.7
20°	1158.7	1162.8	1156.7	1162.8	1160.8	1160.8	1156.7	1162.8
22.5°	1101.7	1107.8	1103.7	1107.8	1105.8	1105.8	1103.7	1107.8
25°	1044.7	1050.8	1044.7	1050.8	1048.8	1048.8	1044.7	1054.9
27.5°	987.7	991.7	985.6	993.8	991.7	987.7	989.7	991.7
30°	926.6	930.6	926.6	932.7	932.7	932.7	928.6	932.7
32.5°	865.5	871.6	865.5	871.6	869.6	869.6	867.5	871.6
35°	804.4	806.4	802.3	808.5	808.5	810.5	806.4	812.5
37.5°	741.3	743.3	741.3	743.3	747.4	741.3	745.3	747.4
40°	676.1	680.2	678.1	680.2	680.2	682.2	680.2	682.2
42.5°	610.9	615.0	610.9	617.0	615.0	615.0	617.0	617.0
45°	543.7	549.8	545.8	549.8	551.9	549.8	549.8	553.9
47.5°	480.6	484.7	482.6	484.7	484.7	484.7	484.7	488.7
50°	417.5	419.5	419.5	421.5	421.5	423.6	419.5	421.5
52.5°	354.3	358.4	358.4	358.4	356.4	358.4	358.4	358.4
55°	297.3	299.4	295.3	299.4	299.4	297.3	297.3	301.4
57.5°	242.3	242.3	242.3	242.3	242.3	240.3	242.3	242.3
60°	191.4	193.5	191.4	191.4	191.4	191.4	189.4	193.5
62.5°	148.7	148.7	146.6	148.7	148.7	148.7	150.7	150.7
65°	116.1	118.1	116.1	118.1	118.1	118.1	118.1	120.1
67.5°	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
70°	69.2	69.2	69.2	71.3	69.2	69.2	69.2	71.3
72.5°	50.9	50.9	50.9	50.9	50.9	50.9	52.9	52.9
75°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
77.5°	24.4	24.4	24.4	26.5	24.4	26.5	24.4	24.4
80°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
82.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0
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)