

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: P252591

Luminaire Tested: **LD6B30D010 EU6B30509035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2552.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

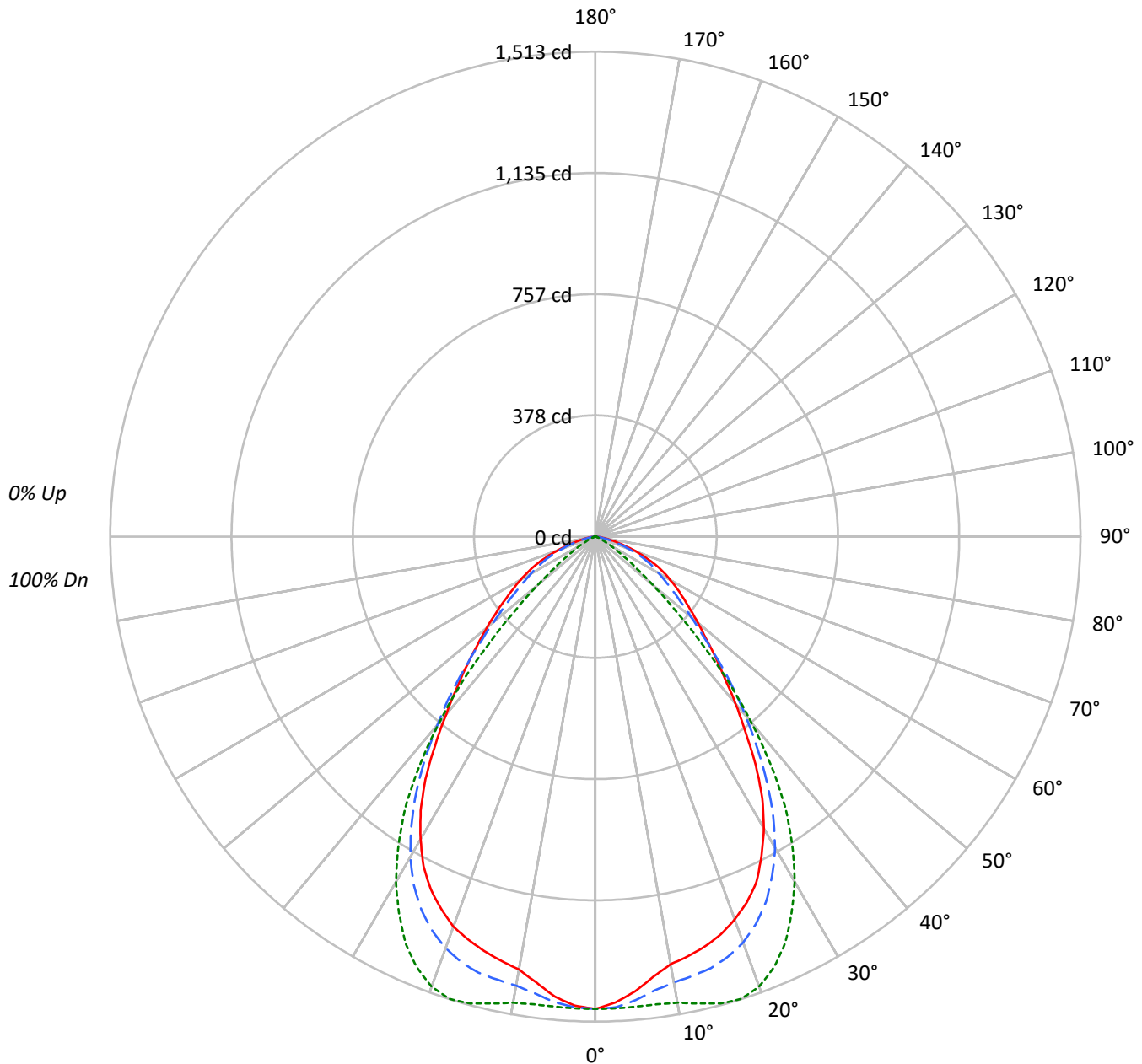
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50		
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	96126	96126	96126
5°	93258	96381	94371
10°	89712	97834	90838
15°	89392	101820	90425
20°	88222	103711	89874
25°	85583	100793	87426
30°	79175	93670	82121
35°	69458	82344	73527
40°	57879	64556	61651
45°	48715	42589	52019
50°	42182	23344	44780
55°	38172	12398	39139
60°	35113	6446	35113
65°	31816	3412	31029
70°	25675	1946	23710
75°	17595	1286	16309
80°	11534	639	10257
85°	7635	1273	6363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	5.4
10°-20°	397.3	15.6
20°-30°	587.0	23.0
30°-40°	592.9	23.2
40°-50°	408.7	16.0
50°-60°	234.7	9.2
60°-70°	136.6	5.4
70°-80°	49.8	2.0
80°-90°	7.6	0.3
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°	1121.7	44.0
0°-40°	1714.6	67.2
0°-60°	2357.9	92.4
0°-90°	2552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1473	1473	1473	1473	1473	
5°	1424	1451	1472	1458	1441	134
15°	1324	1393	1508	1409	1339	373
25°	1189	1259	1400	1284	1214	542
35°	872	932	1034	974	923	541
45°	528	535	462	569	564	411
55°	336	295	109	307	344	302
65°	206	174	22	172	201	202
75°	70	56	5	54	65	79
85°	10	5	2	7	8	13
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°	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4
2.5°	1454.7	1456.4	1458.1	1456.4	1458.1	1464.9	1459.8	1463.2	1463.2	1464.9	1470.0
5°	1424.0	1424.0	1427.4	1425.7	1430.8	1437.6	1432.5	1437.6	1439.3	1442.7	1451.3
7.5°	1384.8	1384.8	1386.5	1386.5	1393.3	1400.2	1396.7	1403.6	1410.4	1417.2	1427.4
10°	1354.2	1357.6	1357.6	1359.3	1366.1	1374.6	1372.9	1381.4	1388.2	1398.4	1412.1
12.5°	1340.5	1342.2	1342.2	1345.6	1352.5	1361.0	1359.3	1367.8	1378.0	1389.9	1403.6
15°	1323.5	1326.9	1325.2	1328.6	1335.4	1343.9	1342.2	1350.8	1362.7	1374.6	1393.3
17.5°	1301.4	1303.1	1304.8	1304.8	1311.6	1318.4	1318.4	1326.9	1340.5	1354.2	1374.6
20°	1270.7	1274.1	1274.1	1275.8	1280.9	1291.1	1289.4	1298.0	1311.6	1325.2	1347.3
22.5°	1234.9	1236.6	1236.6	1238.3	1246.9	1252.0	1253.7	1260.5	1272.4	1287.7	1308.2
25°	1188.9	1190.6	1188.9	1194.0	1197.5	1207.7	1204.3	1212.8	1226.4	1238.3	1258.8
27.5°	1122.5	1125.9	1125.9	1127.6	1136.1	1144.7	1144.7	1153.2	1165.1	1173.6	1194.0
30°	1051.0	1056.1	1051.0	1059.5	1062.9	1069.7	1074.8	1079.9	1090.1	1102.1	1120.8
32.5°	969.2	967.5	969.2	972.6	982.8	987.9	991.3	996.5	1006.7	1016.9	1032.2
35°	872.1	875.5	877.2	884.0	884.0	892.6	894.3	897.7	913.0	919.8	931.7
37.5°	769.9	773.3	775.0	778.4	785.2	788.7	793.8	798.9	809.1	821.0	827.8
40°	679.6	679.6	681.3	684.7	689.9	691.6	696.7	703.5	710.3	720.5	727.3
42.5°	594.5	596.2	594.5	597.9	603.0	609.8	608.1	616.6	618.3	625.1	630.2
45°	528.0	528.0	524.6	528.0	528.0	534.9	533.1	536.6	534.9	538.3	534.9
47.5°	465.0	466.7	465.0	466.7	466.7	466.7	468.4	465.0	466.7	461.6	451.4
50°	415.6	417.3	413.9	415.6	413.9	412.2	413.9	408.8	407.1	400.3	390.1
52.5°	373.0	371.3	369.6	369.6	369.6	367.9	366.2	361.1	356.0	349.2	337.3
55°	335.6	333.9	332.2	332.2	328.7	327.0	327.0	321.9	316.8	308.3	294.7
57.5°	301.5	299.8	298.1	298.1	296.4	293.0	293.0	287.9	281.1	270.8	258.9
60°	269.1	269.1	269.1	267.4	267.4	264.0	264.0	258.9	252.1	241.9	228.2
62.5°	240.2	238.5	238.5	238.5	238.5	236.8	235.1	231.7	224.8	214.6	202.7
65°	206.1	206.1	206.1	206.1	204.4	204.4	204.4	199.3	195.9	185.7	173.7
67.5°	168.6	168.6	168.6	168.6	166.9	168.6	168.6	165.2	161.8	151.6	141.4
70°	134.6	132.9	131.2	132.9	131.2	131.2	132.9	129.5	127.8	119.2	109.0
72.5°	98.8	100.5	98.8	98.8	98.8	97.1	98.8	97.1	93.7	86.9	80.1
75°	69.8	71.5	71.5	69.8	69.8	69.8	68.1	68.1	64.7	59.6	56.2
77.5°	47.7	47.7	47.7	47.7	46.0	46.0	46.0	44.3	42.6	39.2	35.8
80°	30.7	30.7	30.7	30.7	29.0	29.0	29.0	27.3	27.3	23.8	20.4
82.5°	18.7	18.7	18.7	18.7	18.7	18.7	17.0	17.0	15.3	13.6	11.9
85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	8.5	8.5	6.8	5.1
87.5°	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4
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°	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4
2.5°	1466.6	1468.3	1468.3	1468.3	1473.4	1475.1	1470.0	1464.9	1475.1	1473.4	1476.8
5°	1449.5	1454.7	1458.1	1459.8	1464.9	1468.3	1463.2	1461.5	1470.0	1471.7	1473.4
7.5°	1429.1	1437.6	1446.1	1449.5	1456.4	1459.8	1458.1	1458.1	1468.3	1471.7	1471.7
10°	1415.5	1427.4	1437.6	1446.1	1454.7	1459.8	1459.8	1461.5	1473.4	1476.8	1480.2
12.5°	1412.1	1427.4	1441.0	1453.0	1459.8	1468.3	1470.0	1475.1	1487.0	1492.1	1492.1
15°	1403.6	1424.0	1441.0	1456.4	1466.6	1476.8	1480.2	1490.4	1504.1	1507.5	1510.9
17.5°	1388.2	1408.7	1429.1	1447.8	1461.5	1470.0	1480.2	1490.4	1507.5	1512.6	1514.3
20°	1361.0	1384.8	1405.3	1424.0	1437.6	1449.5	1459.8	1471.7	1487.0	1493.8	1495.5
22.5°	1320.1	1343.9	1364.4	1384.8	1398.4	1408.7	1418.9	1432.5	1447.8	1454.7	1454.7
25°	1270.7	1292.8	1315.0	1330.3	1343.9	1355.9	1361.0	1376.3	1391.6	1400.2	1400.2
27.5°	1207.7	1228.1	1248.6	1265.6	1274.1	1284.3	1292.8	1306.5	1318.4	1325.2	1332.0
30°	1127.6	1148.1	1166.8	1183.8	1194.0	1204.3	1212.8	1223.0	1234.9	1243.4	1245.1
32.5°	1040.7	1057.8	1076.5	1093.5	1103.8	1107.2	1115.7	1125.9	1136.1	1142.9	1144.7
35°	945.4	957.3	969.2	984.5	994.8	994.8	1003.3	1010.1	1018.6	1033.9	1030.5
37.5°	832.9	850.0	858.5	863.6	870.4	877.2	878.9	887.4	897.7	901.1	906.2
40°	727.3	732.4	737.6	737.6	744.4	744.4	744.4	746.1	756.3	758.0	764.8
42.5°	621.7	621.7	616.6	611.5	613.2	611.5	603.0	603.0	608.1	614.9	614.9
45°	522.9	511.0	495.7	483.8	475.2	471.8	461.6	461.6	459.9	461.6	468.4
47.5°	439.5	419.0	393.5	369.6	361.1	354.3	339.0	332.2	328.7	330.4	333.9
50°	369.6	347.5	318.5	289.6	274.2	265.7	247.0	235.1	233.4	230.0	236.8
52.5°	318.5	291.3	260.6	226.5	211.2	197.6	177.1	166.9	160.1	160.1	161.8
55°	274.2	245.3	211.2	177.1	161.8	151.6	131.2	117.5	110.7	109.0	114.1
57.5°	236.8	209.5	175.4	141.4	126.0	114.1	93.7	81.8	76.7	73.2	74.9
60°	207.8	180.6	146.5	114.1	100.5	86.9	69.8	56.2	49.4	49.4	51.1
62.5°	180.6	155.0	124.3	93.7	81.8	69.8	51.1	39.2	34.1	32.4	34.1
65°	153.3	129.5	103.9	78.4	66.4	56.2	40.9	30.7	23.8	22.1	23.8
67.5°	124.3	105.6	83.5	63.0	52.8	44.3	30.7	22.1	17.0	15.3	17.0
70°	97.1	80.1	63.0	46.0	39.2	32.4	22.1	17.0	11.9	10.2	11.9
72.5°	69.8	57.9	44.3	32.4	27.3	22.1	15.3	11.9	8.5	6.8	8.5
75°	47.7	39.2	29.0	20.4	17.0	15.3	10.2	6.8	5.1	5.1	5.1
77.5°	30.7	23.8	18.7	13.6	10.2	8.5	5.1	3.4	3.4	3.4	3.4
80°	17.0	13.6	10.2	6.8	5.1	5.1	3.4	3.4	1.7	1.7	1.7
82.5°	10.2	6.8	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
85°	5.1	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4
2.5°	1470.0	1471.7	1466.6	1473.4	1468.3	1475.1	1475.1	1468.3	1470.0	1466.6	1473.4
5°	1466.6	1466.6	1463.2	1468.3	1461.5	1468.3	1466.6	1454.7	1458.1	1451.3	1458.1
7.5°	1466.6	1463.2	1458.1	1463.2	1454.7	1459.8	1453.0	1441.0	1437.6	1429.1	1429.1
10°	1471.7	1466.6	1459.8	1461.5	1453.0	1454.7	1444.4	1427.4	1422.3	1412.1	1408.7
12.5°	1483.6	1478.5	1468.3	1471.7	1459.8	1459.8	1446.1	1425.7	1415.5	1401.9	1398.4
15°	1500.7	1492.1	1480.2	1481.9	1470.0	1463.2	1446.1	1422.3	1408.7	1389.9	1384.8
17.5°	1504.1	1495.5	1480.2	1480.2	1464.9	1456.4	1435.9	1408.7	1391.6	1372.9	1362.7
20°	1485.3	1476.8	1459.8	1458.1	1444.4	1432.5	1410.4	1383.1	1366.1	1345.6	1337.1
22.5°	1446.1	1435.9	1420.6	1418.9	1405.3	1398.4	1374.6	1347.3	1330.3	1309.9	1303.1
25°	1388.2	1383.1	1367.8	1366.1	1354.2	1345.6	1325.2	1299.7	1284.3	1263.9	1257.1
27.5°	1320.1	1315.0	1299.7	1299.7	1286.0	1280.9	1262.2	1238.3	1226.4	1207.7	1199.2
30°	1238.3	1231.5	1223.0	1221.3	1209.4	1204.3	1187.2	1165.1	1153.2	1137.8	1134.4
32.5°	1141.2	1136.1	1131.0	1129.3	1117.4	1112.3	1100.4	1078.2	1068.0	1054.4	1049.3
35°	1028.8	1025.4	1020.3	1018.6	1013.5	1008.4	996.5	979.4	974.3	964.1	959.0
37.5°	899.4	902.8	899.4	899.4	894.3	896.0	885.7	875.5	870.4	863.6	860.2
40°	759.7	766.5	771.6	771.6	769.9	776.7	775.0	766.5	764.8	761.4	759.7
42.5°	618.3	621.7	631.9	638.8	637.1	654.1	655.8	662.6	667.7	664.3	666.0
45°	470.1	480.3	494.0	500.8	509.3	531.4	543.4	557.0	568.9	575.7	574.0
47.5°	339.0	350.9	366.2	376.4	391.8	419.0	449.7	466.7	483.8	492.3	500.8
50°	245.3	257.2	275.9	291.3	301.5	339.0	371.3	393.5	412.2	424.1	432.7
52.5°	172.0	185.7	206.1	219.7	235.1	270.8	308.3	333.9	354.3	369.6	378.1
55°	119.2	134.6	153.3	166.9	184.0	221.4	257.2	284.5	306.6	320.2	330.4
57.5°	83.5	97.1	115.8	127.8	144.8	180.6	216.3	243.6	265.7	279.3	291.3
60°	56.2	69.8	88.6	100.5	114.1	149.9	182.3	211.2	231.7	245.3	257.2
62.5°	39.2	51.1	69.8	81.8	93.7	124.3	155.0	180.6	201.0	216.3	226.5
65°	30.7	40.9	56.2	66.4	78.4	103.9	129.5	151.6	172.0	187.4	194.2
67.5°	22.1	32.4	44.3	52.8	61.3	83.5	105.6	122.6	141.4	153.3	161.8
70°	15.3	22.1	32.4	39.2	46.0	63.0	80.1	95.4	109.0	117.5	124.3
72.5°	11.9	15.3	22.1	27.3	32.4	44.3	57.9	69.8	80.1	86.9	93.7
75°	6.8	10.2	15.3	18.7	22.1	30.7	39.2	47.7	54.5	59.6	63.0
77.5°	3.4	5.1	8.5	10.2	13.6	18.7	25.6	30.7	35.8	39.2	42.6
80°	3.4	3.4	5.1	5.1	6.8	10.2	13.6	17.0	20.4	23.8	25.6
82.5°	1.7	1.7	3.4	3.4	3.4	5.1	6.8	10.2	11.9	13.6	15.3
85°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1	6.8	8.5	8.5
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.1
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: P252591

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4	1473.4
2.5°	1468.3	1471.7	1470.0	1473.4	1468.3	1466.6	1470.0	1464.9
5°	1449.5	1451.3	1449.5	1449.5	1446.1	1442.7	1446.1	1441.0
7.5°	1420.6	1420.6	1415.5	1415.5	1408.7	1405.3	1405.3	1403.6
10°	1396.7	1391.6	1386.5	1388.2	1378.0	1374.6	1372.9	1371.2
12.5°	1384.8	1381.4	1372.9	1372.9	1362.7	1359.3	1357.6	1355.9
15°	1371.2	1364.4	1357.6	1355.9	1347.3	1343.9	1342.2	1338.8
17.5°	1347.3	1342.2	1333.7	1333.7	1325.2	1323.5	1320.1	1318.4
20°	1321.8	1315.0	1308.2	1308.2	1298.0	1298.0	1292.8	1294.5
22.5°	1286.0	1280.9	1274.1	1274.1	1265.6	1263.9	1258.8	1257.1
25°	1243.4	1236.6	1231.5	1229.8	1223.0	1219.6	1217.9	1214.5
27.5°	1187.2	1182.1	1177.0	1173.6	1165.1	1163.4	1158.3	1160.0
30°	1117.4	1114.0	1112.3	1108.9	1098.7	1095.3	1095.3	1090.1
32.5°	1040.7	1035.6	1032.2	1027.1	1018.6	1016.9	1011.8	1013.5
35°	947.1	940.2	935.1	936.8	926.6	924.9	921.5	923.2
37.5°	850.0	843.2	836.3	834.6	826.1	826.1	821.0	821.0
40°	749.5	742.7	739.3	739.3	729.0	730.7	725.6	723.9
42.5°	659.2	652.4	650.7	649.0	643.9	642.2	637.1	638.8
45°	574.0	572.3	572.3	568.9	563.8	562.1	563.8	563.8
47.5°	499.1	500.8	499.1	499.1	495.7	499.1	495.7	497.4
50°	436.1	439.5	439.5	439.5	437.8	439.5	439.5	441.2
52.5°	383.3	388.4	386.7	388.4	386.7	390.1	388.4	390.1
55°	337.3	340.7	342.4	344.1	344.1	344.1	344.1	344.1
57.5°	294.7	299.8	301.5	303.2	303.2	306.6	303.2	303.2
60°	260.6	265.7	267.4	269.1	269.1	270.8	267.4	269.1
62.5°	230.0	235.1	235.1	236.8	236.8	236.8	233.4	235.1
65°	199.3	201.0	202.7	202.7	201.0	201.0	199.3	201.0
67.5°	165.2	166.9	165.2	165.2	163.5	163.5	160.1	161.8
70°	127.8	127.8	129.5	127.8	126.0	127.8	126.0	124.3
72.5°	95.4	95.4	95.4	93.7	93.7	92.0	93.7	93.7
75°	64.7	64.7	66.4	66.4	66.4	66.4	64.7	64.7
77.5°	42.6	42.6	42.6	42.6	44.3	42.6	42.6	42.6
80°	27.3	27.3	29.0	29.0	27.3	27.3	27.3	27.3
82.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	10.2	10.2	10.2	10.2	8.5	8.5	8.5	8.5
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4
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)