

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: P252584

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252584
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 EU6B30508030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2946.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

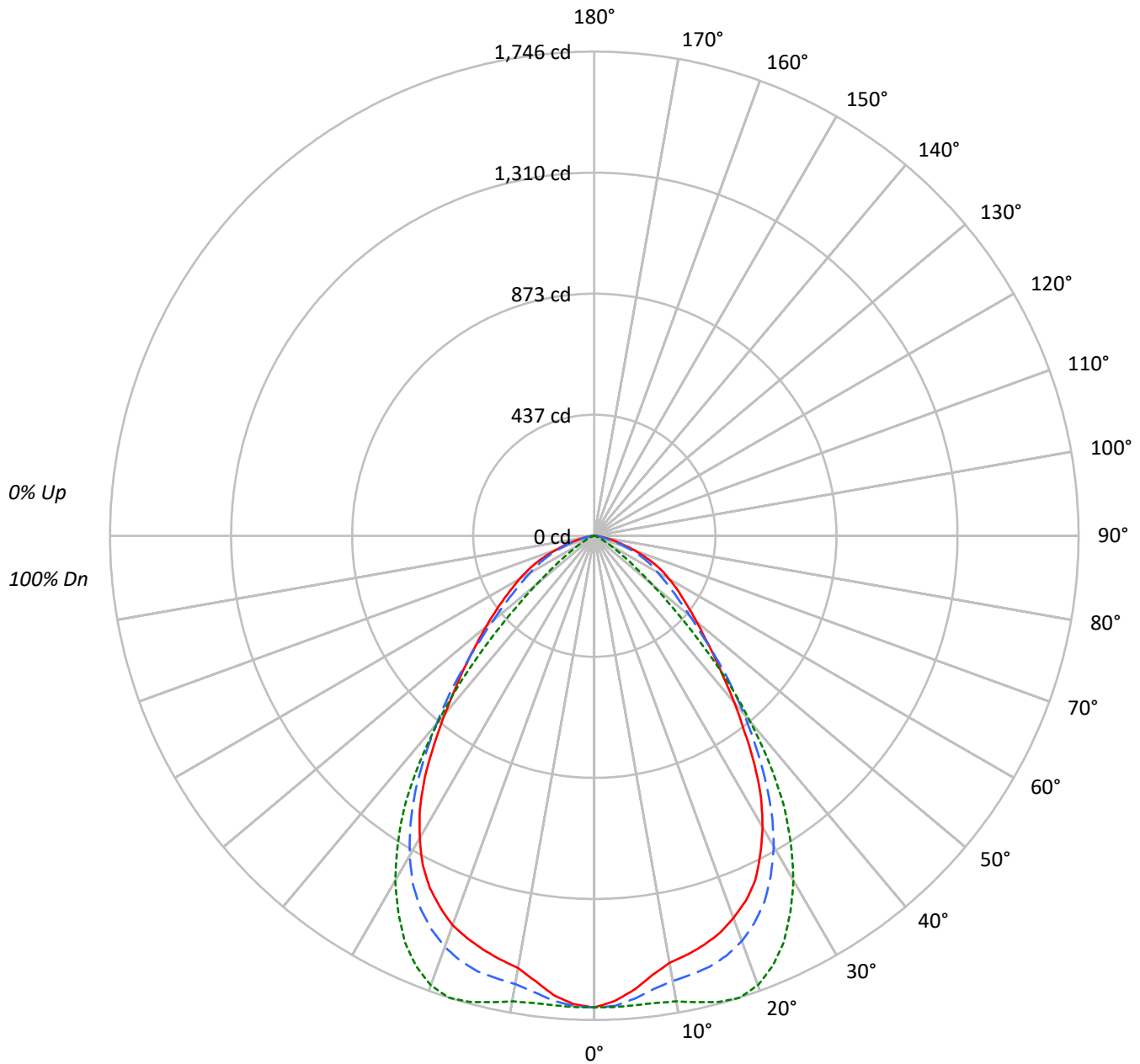
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	110968	110968	110968
5°	107652	111261	108942
10°	103557	112938	104862
15°	103191	117537	104386
20°	101843	119728	103753
25°	98800	116349	100923
30°	91394	108134	94800
35°	80186	95063	84877
40°	66821	74520	71173
45°	56244	49168	60055
50°	48698	26947	51692
55°	44064	14309	45179
60°	40541	7437	40541
65°	36725	3952	35814
70°	29624	2251	27373
75°	20317	1487	18830
80°	13300	751	11835
85°	8833	1497	7336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	5.4
10°-20°	458.6	15.6
20°-30°	677.6	23.0
30°-40°	684.4	23.2
40°-50°	471.8	16.0
50°-60°	270.9	9.2
60°-70°	157.7	5.4
70°-80°	57.5	2.0
80°-90°	8.8	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°	1294.8	44.0
0°-40°	1979.3	67.2
0°-60°	2722.0	92.4
0°-90°	2946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1701	1701	1701	1701	1701	
5°	1644	1675	1699	1683	1664	154
15°	1528	1608	1740	1626	1546	430
25°	1372	1453	1616	1483	1402	625
35°	1007	1076	1194	1125	1066	625
45°	610	617	533	657	651	474
55°	387	340	126	354	397	349
65°	238	201	26	199	232	233
75°	81	65	6	63	75	91
85°	12	6	2	8	10	15
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°	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1679.2	1681.2	1683.2	1681.2	1683.2	1691.0	1685.1	1689.1	1689.1	1691.0	1696.9
5°	1643.8	1643.8	1647.8	1645.8	1651.7	1659.6	1653.7	1659.6	1661.5	1665.5	1675.3
7.5°	1598.6	1598.6	1600.6	1600.6	1608.5	1616.3	1612.4	1620.3	1628.1	1636.0	1647.8
10°	1563.2	1567.2	1567.2	1569.1	1577.0	1586.8	1584.9	1594.7	1602.6	1614.4	1630.1
12.5°	1547.5	1549.5	1549.5	1553.4	1561.3	1571.1	1569.1	1579.0	1590.8	1604.5	1620.3
15°	1527.8	1531.8	1529.8	1533.7	1541.6	1551.4	1549.5	1559.3	1573.1	1586.8	1608.5
17.5°	1502.3	1504.2	1506.2	1506.2	1514.1	1521.9	1521.9	1531.8	1547.5	1563.2	1586.8
20°	1466.9	1470.8	1470.8	1472.8	1478.7	1490.5	1488.5	1498.3	1514.1	1529.8	1555.4
22.5°	1425.6	1427.6	1427.6	1429.5	1439.4	1445.3	1447.2	1455.1	1468.8	1486.5	1510.1
25°	1372.5	1374.5	1372.5	1378.4	1382.3	1394.1	1390.2	1400.0	1415.8	1429.5	1453.1
27.5°	1295.8	1299.7	1299.7	1301.7	1311.5	1321.4	1321.4	1331.2	1345.0	1354.8	1378.4
30°	1213.2	1219.1	1213.2	1223.1	1227.0	1234.9	1240.8	1246.7	1258.4	1272.2	1293.8
32.5°	1118.8	1116.9	1118.8	1122.8	1134.6	1140.5	1144.4	1150.3	1162.1	1173.9	1191.6
35°	1006.8	1010.7	1012.7	1020.5	1020.5	1030.4	1032.3	1036.3	1054.0	1061.8	1075.6
37.5°	888.8	892.7	894.7	898.6	906.5	910.4	916.3	922.2	934.0	947.8	955.6
40°	784.6	784.6	786.5	790.5	796.4	798.3	804.2	812.1	820.0	831.8	839.6
42.5°	686.2	688.2	686.2	690.2	696.1	703.9	702.0	711.8	713.8	721.6	727.5
45°	609.6	609.6	605.6	609.6	609.6	617.4	615.5	619.4	617.4	621.4	617.4
47.5°	536.8	538.8	536.8	538.8	538.8	538.8	540.7	536.8	538.8	532.9	521.1
50°	479.8	481.8	477.8	479.8	477.8	475.9	477.8	471.9	470.0	462.1	450.3
52.5°	430.6	428.7	426.7	426.7	426.7	424.7	422.8	416.9	411.0	403.1	389.3
55°	387.4	385.4	383.4	383.4	379.5	377.5	377.5	371.6	365.7	355.9	340.2
57.5°	348.0	346.1	344.1	344.1	342.1	338.2	338.2	332.3	324.4	312.6	298.9
60°	310.7	310.7	310.7	308.7	308.7	304.8	304.8	298.9	291.0	279.2	263.5
62.5°	277.3	275.3	275.3	275.3	275.3	273.3	271.4	267.4	259.6	247.8	234.0
65°	237.9	237.9	237.9	237.9	236.0	236.0	236.0	230.1	226.1	214.3	200.6
67.5°	194.7	194.7	194.7	194.7	192.7	194.7	194.7	190.7	186.8	175.0	163.2
70°	155.3	153.4	151.4	153.4	151.4	151.4	153.4	149.4	147.5	137.6	125.8
72.5°	114.0	116.0	114.0	114.0	114.0	112.1	114.0	112.1	108.1	100.3	92.4
75°	80.6	82.6	82.6	80.6	80.6	80.6	78.7	78.7	74.7	68.8	64.9
77.5°	55.1	55.1	55.1	55.1	53.1	53.1	53.1	51.1	49.2	45.2	41.3
80°	35.4	35.4	35.4	35.4	33.4	33.4	33.4	31.5	31.5	27.5	23.6
82.5°	21.6	21.6	21.6	21.6	21.6	21.6	19.7	19.7	17.7	15.7	13.8
85°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	9.8	9.8	7.9	5.9
87.5°	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9
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°	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1693.0	1695.0	1695.0	1695.0	1700.9	1702.8	1696.9	1691.0	1702.8	1700.9	1704.8
5°	1673.3	1679.2	1683.2	1685.1	1691.0	1695.0	1689.1	1687.1	1696.9	1698.9	1700.9
7.5°	1649.7	1659.6	1669.4	1673.3	1681.2	1685.1	1683.2	1683.2	1695.0	1698.9	1698.9
10°	1634.0	1647.8	1659.6	1669.4	1679.2	1685.1	1685.1	1687.1	1700.9	1704.8	1708.7
12.5°	1630.1	1647.8	1663.5	1677.3	1685.1	1695.0	1696.9	1702.8	1716.6	1722.5	1722.5
15°	1620.3	1643.8	1663.5	1681.2	1693.0	1704.8	1708.7	1720.5	1736.3	1740.2	1744.1
17.5°	1602.6	1626.2	1649.7	1671.4	1687.1	1696.9	1708.7	1720.5	1740.2	1746.1	1748.1
20°	1571.1	1598.6	1622.2	1643.8	1659.6	1673.3	1685.1	1698.9	1716.6	1724.5	1726.4
22.5°	1523.9	1551.4	1575.0	1598.6	1614.4	1626.2	1638.0	1653.7	1671.4	1679.2	1679.2
25°	1466.9	1492.4	1518.0	1535.7	1551.4	1565.2	1571.1	1588.8	1606.5	1616.3	1616.3
27.5°	1394.1	1417.7	1441.3	1461.0	1470.8	1482.6	1492.4	1508.2	1521.9	1529.8	1537.7
30°	1301.7	1325.3	1346.9	1366.6	1378.4	1390.2	1400.0	1411.8	1425.6	1435.4	1437.4
32.5°	1201.4	1221.1	1242.7	1262.4	1274.2	1278.1	1287.9	1299.7	1311.5	1319.4	1321.4
35°	1091.3	1105.1	1118.8	1136.5	1148.3	1148.3	1158.2	1166.0	1175.9	1193.6	1189.6
37.5°	961.5	981.2	991.0	996.9	1004.8	1012.7	1014.6	1024.5	1036.3	1040.2	1046.1
40°	839.6	845.5	851.4	851.4	859.3	859.3	859.3	861.3	873.0	875.0	882.9
42.5°	717.7	717.7	711.8	705.9	707.9	705.9	696.1	696.1	702.0	709.8	709.8
45°	603.7	589.9	572.2	558.4	548.6	544.7	532.9	532.9	530.9	532.9	540.7
47.5°	507.3	483.7	454.2	426.7	416.9	409.0	391.3	383.4	379.5	381.5	385.4
50°	426.7	401.1	367.7	334.3	316.6	306.7	285.1	271.4	269.4	265.5	273.3
52.5°	367.7	336.2	300.8	261.5	243.8	228.1	204.5	192.7	184.8	184.8	186.8
55°	316.6	283.2	243.8	204.5	186.8	175.0	151.4	135.7	127.8	125.8	131.7
57.5°	273.3	241.9	202.5	163.2	145.5	131.7	108.1	94.4	88.5	84.6	86.5
60°	239.9	208.4	169.1	131.7	116.0	100.3	80.6	64.9	57.0	57.0	59.0
62.5°	208.4	178.9	143.5	108.1	94.4	80.6	59.0	45.2	39.3	37.4	39.3
65°	177.0	149.4	119.9	90.5	76.7	64.9	47.2	35.4	27.5	25.6	27.5
67.5°	143.5	121.9	96.4	72.8	61.0	51.1	35.4	25.6	19.7	17.7	19.7
70°	112.1	92.4	72.8	53.1	45.2	37.4	25.6	19.7	13.8	11.8	13.8
72.5°	80.6	66.9	51.1	37.4	31.5	25.6	17.7	13.8	9.8	7.9	9.8
75°	55.1	45.2	33.4	23.6	19.7	17.7	11.8	7.9	5.9	5.9	5.9
77.5°	35.4	27.5	21.6	15.7	11.8	9.8	5.9	3.9	3.9	3.9	3.9
80°	19.7	15.7	11.8	7.9	5.9	5.9	3.9	3.9	2.0	2.0	2.0
82.5°	11.8	7.9	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0
85°	5.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	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°	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1696.9	1698.9	1693.0	1700.9	1695.0	1702.8	1702.8	1695.0	1696.9	1693.0	1700.9
5°	1693.0	1693.0	1689.1	1695.0	1687.1	1695.0	1693.0	1679.2	1683.2	1675.3	1683.2
7.5°	1693.0	1689.1	1683.2	1689.1	1679.2	1685.1	1677.3	1663.5	1659.6	1649.7	1649.7
10°	1698.9	1693.0	1685.1	1687.1	1677.3	1679.2	1667.4	1647.8	1641.9	1630.1	1626.2
12.5°	1712.7	1706.8	1695.0	1698.9	1685.1	1685.1	1669.4	1645.8	1634.0	1618.3	1614.4
15°	1732.3	1722.5	1708.7	1710.7	1696.9	1689.1	1669.4	1641.9	1626.2	1604.5	1598.6
17.5°	1736.3	1726.4	1708.7	1708.7	1691.0	1681.2	1657.6	1626.2	1606.5	1584.9	1573.1
20°	1714.6	1704.8	1685.1	1683.2	1667.4	1653.7	1628.1	1596.7	1577.0	1553.4	1543.6
22.5°	1669.4	1657.6	1639.9	1638.0	1622.2	1614.4	1586.8	1555.4	1535.7	1512.1	1504.2
25°	1602.6	1596.7	1579.0	1577.0	1563.2	1553.4	1529.8	1500.3	1482.6	1459.0	1451.1
27.5°	1523.9	1518.0	1500.3	1500.3	1484.6	1478.7	1457.0	1429.5	1415.8	1394.1	1384.3
30°	1429.5	1421.7	1411.8	1409.9	1396.1	1390.2	1370.5	1345.0	1331.2	1313.5	1309.6
32.5°	1317.4	1311.5	1305.6	1303.7	1289.9	1284.0	1270.2	1244.7	1232.9	1217.2	1211.3
35°	1187.7	1183.7	1177.8	1175.9	1170.0	1164.1	1150.3	1130.6	1124.7	1112.9	1107.0
37.5°	1038.2	1042.2	1038.2	1038.2	1032.3	1034.3	1022.5	1010.7	1004.8	996.9	993.0
40°	877.0	884.8	890.7	890.7	888.8	896.6	894.7	884.8	882.9	878.9	877.0
42.5°	713.8	717.7	729.5	737.4	735.4	755.1	757.0	764.9	770.8	766.9	768.8
45°	542.7	554.5	570.2	578.1	587.9	613.5	627.3	643.0	656.8	664.6	662.7
47.5°	391.3	405.1	422.8	434.6	452.3	483.7	519.1	538.8	558.4	568.3	578.1
50°	283.2	296.9	318.5	336.2	348.0	391.3	428.7	454.2	475.9	489.6	499.4
52.5°	198.6	214.3	237.9	253.7	271.4	312.6	355.9	385.4	409.0	426.7	436.5
55°	137.6	155.3	177.0	192.7	212.4	255.6	296.9	328.4	353.9	369.7	381.5
57.5°	96.4	112.1	133.7	147.5	167.1	208.4	249.7	281.2	306.7	322.5	336.2
60°	64.9	80.6	102.2	116.0	131.7	173.0	210.4	243.8	267.4	283.2	296.9
62.5°	45.2	59.0	80.6	94.4	108.1	143.5	178.9	208.4	232.0	249.7	261.5
65°	35.4	47.2	64.9	76.7	90.5	119.9	149.4	175.0	198.6	216.3	224.2
67.5°	25.6	37.4	51.1	61.0	70.8	96.4	121.9	141.6	163.2	177.0	186.8
70°	17.7	25.6	37.4	45.2	53.1	72.8	92.4	110.1	125.8	135.7	143.5
72.5°	13.8	17.7	25.6	31.5	37.4	51.1	66.9	80.6	92.4	100.3	108.1
75°	7.9	11.8	17.7	21.6	25.6	35.4	45.2	55.1	62.9	68.8	72.8
77.5°	3.9	5.9	9.8	11.8	15.7	21.6	29.5	35.4	41.3	45.2	49.2
80°	3.9	3.9	5.9	5.9	7.9	11.8	15.7	19.7	23.6	27.5	29.5
82.5°	2.0	2.0	3.9	3.9	3.9	5.9	7.9	11.8	13.8	15.7	17.7
85°	2.0	2.0	2.0	2.0	2.0	3.9	3.9	5.9	7.9	9.8	9.8
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9	3.9	5.9
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: P252584

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1695.0	1698.9	1696.9	1700.9	1695.0	1693.0	1696.9	1691.0
5°	1673.3	1675.3	1673.3	1673.3	1669.4	1665.5	1669.4	1663.5
7.5°	1639.9	1639.9	1634.0	1634.0	1626.2	1622.2	1622.2	1620.3
10°	1612.4	1606.5	1600.6	1602.6	1590.8	1586.8	1584.9	1582.9
12.5°	1598.6	1594.7	1584.9	1584.9	1573.1	1569.1	1567.2	1565.2
15°	1582.9	1575.0	1567.2	1565.2	1555.4	1551.4	1549.5	1545.5
17.5°	1555.4	1549.5	1539.6	1539.6	1529.8	1527.8	1523.9	1521.9
20°	1525.9	1518.0	1510.1	1510.1	1498.3	1498.3	1492.4	1494.4
22.5°	1484.6	1478.7	1470.8	1470.8	1461.0	1459.0	1453.1	1451.1
25°	1435.4	1427.6	1421.7	1419.7	1411.8	1407.9	1405.9	1402.0
27.5°	1370.5	1364.6	1358.7	1354.8	1345.0	1343.0	1337.1	1339.1
30°	1289.9	1286.0	1284.0	1280.1	1268.3	1264.3	1264.3	1258.4
32.5°	1201.4	1195.5	1191.6	1185.7	1175.9	1173.9	1168.0	1170.0
35°	1093.3	1085.4	1079.5	1081.5	1069.7	1067.7	1063.8	1065.7
37.5°	981.2	973.3	965.5	963.5	953.7	953.7	947.8	947.8
40°	865.2	857.3	853.4	853.4	841.6	843.6	837.7	835.7
42.5°	761.0	753.1	751.1	749.2	743.3	741.3	735.4	737.4
45°	662.7	660.7	660.7	656.8	650.9	648.9	650.9	650.9
47.5°	576.1	578.1	576.1	576.1	572.2	576.1	572.2	574.2
50°	503.4	507.3	507.3	507.3	505.3	507.3	507.3	509.3
52.5°	442.4	448.3	446.4	448.3	446.4	450.3	448.3	450.3
55°	389.3	393.3	395.2	397.2	397.2	397.2	397.2	397.2
57.5°	340.2	346.1	348.0	350.0	350.0	353.9	350.0	350.0
60°	300.8	306.7	308.7	310.7	310.7	312.6	308.7	310.7
62.5°	265.5	271.4	271.4	273.3	273.3	273.3	269.4	271.4
65°	230.1	232.0	234.0	234.0	232.0	232.0	230.1	232.0
67.5°	190.7	192.7	190.7	190.7	188.8	188.8	184.8	186.8
70°	147.5	147.5	149.4	147.5	145.5	147.5	145.5	143.5
72.5°	110.1	110.1	110.1	108.1	108.1	106.2	108.1	108.1
75°	74.7	74.7	76.7	76.7	76.7	76.7	74.7	74.7
77.5°	49.2	49.2	49.2	49.2	51.1	49.2	49.2	49.2
80°	31.5	31.5	33.4	33.4	31.5	31.5	31.5	31.5
82.5°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
85°	11.8	11.8	11.8	11.8	9.8	9.8	9.8	9.8
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9
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)