

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: P252275

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30508050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2827.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

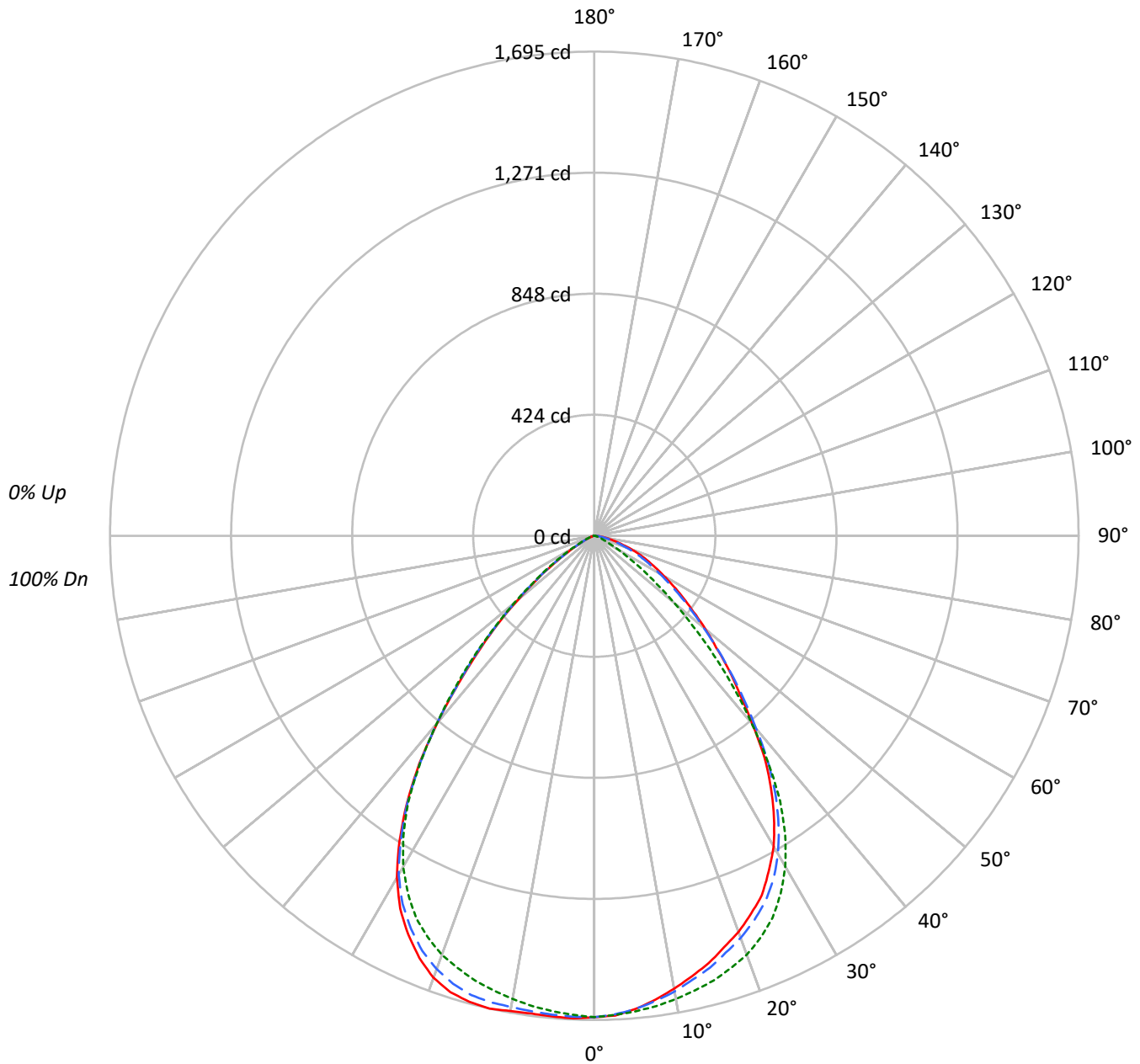
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252275

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBSW1H

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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92				90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82				80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74				72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66				64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60				58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54				52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49				47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45				43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41				40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38				37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	109937	109937	109937
5°	108890	109420	110619
10°	106645	109069	111898
15°	104602	108864	114085
20°	102440	108370	114306
25°	99908	106214	110900
30°	94596	100728	104096
35°	85904	90285	91089
40°	73311	72970	72621
45°	61586	54639	52950
50°	51428	36975	35118
55°	43291	22680	20599
60°	36639	11952	10360
65°	31724	6283	5033
70°	26400	3891	2709
75°	19485	2571	1538
80°	15291	1540	751
85°	12201	1497	0



TEST NUMBER: P252275

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	5.6
10°-20°	454.7	16.1
20°-30°	671.5	23.8
30°-40°	692.0	24.5
40°-50°	478.0	16.9
50°-60°	235.6	8.3
60°-70°	95.5	3.4
70°-80°	34.0	1.2
80°-90°	7.0	0.2
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°	1285.0	45.5
0°-40°	1977.0	69.9
0°-60°	2690.5	95.2
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1685	1685	1685	1685	1685	
5°	1663	1663	1671	1683	1689	157
15°	1549	1565	1612	1665	1689	436
25°	1388	1414	1476	1518	1541	635
35°	1079	1105	1134	1140	1144	668
45°	668	672	592	584	574	516
55°	381	366	199	187	181	344
65°	206	185	41	33	33	204
75°	77	65	10	6	6	87
85°	16	12	2	0	0	20
90°	0	0	0	0	0	



TEST NUMBER: P252275

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1
2.5°	1681.0	1674.9	1679.0	1670.8	1681.0	1670.8	1672.9	1674.9	1672.9	1674.9	1676.9
5°	1662.7	1656.6	1662.7	1652.5	1662.7	1656.6	1656.6	1658.6	1658.6	1660.6	1662.7
7.5°	1638.3	1632.2	1638.3	1628.1	1640.3	1634.2	1634.2	1638.3	1636.2	1638.3	1642.3
10°	1609.8	1601.6	1607.7	1601.6	1613.8	1605.7	1609.8	1609.8	1609.8	1615.9	1619.9
12.5°	1579.2	1571.1	1579.2	1569.1	1581.3	1575.2	1577.2	1583.3	1585.3	1589.4	1591.5
15°	1548.7	1538.5	1542.6	1536.5	1548.7	1542.6	1544.6	1552.8	1552.8	1558.9	1565.0
17.5°	1510.0	1501.9	1510.0	1501.9	1512.1	1508.0	1512.1	1518.2	1518.2	1524.3	1530.4
20°	1475.5	1467.3	1473.4	1467.3	1479.5	1473.4	1475.5	1483.6	1485.6	1491.7	1497.8
22.5°	1432.7	1426.6	1430.7	1424.6	1436.8	1432.7	1434.7	1442.9	1444.9	1449.0	1459.2
25°	1387.9	1375.7	1381.8	1377.8	1390.0	1383.9	1387.9	1396.1	1400.2	1406.3	1414.4
27.5°	1322.8	1316.7	1320.8	1320.8	1331.0	1324.9	1326.9	1335.0	1341.1	1347.2	1357.4
30°	1255.7	1245.5	1249.6	1251.6	1259.7	1255.7	1259.7	1267.9	1269.9	1278.0	1286.2
32.5°	1170.2	1166.1	1174.3	1170.2	1174.3	1174.3	1176.3	1182.4	1186.5	1190.5	1200.7
35°	1078.6	1070.5	1078.6	1074.5	1084.7	1078.6	1084.7	1090.8	1090.8	1099.0	1105.1
37.5°	978.9	968.7	972.8	972.8	976.8	974.8	974.8	985.0	987.0	993.1	999.2
40°	860.8	856.8	864.9	862.9	864.9	864.9	867.0	873.1	877.1	879.2	881.2
42.5°	755.0	757.1	759.1	759.1	759.1	759.1	759.1	767.2	765.2	771.3	773.3
45°	667.5	659.4	663.4	661.4	667.5	661.4	667.5	673.6	669.5	675.7	671.6
47.5°	578.0	578.0	578.0	575.9	580.0	578.0	582.0	584.1	584.1	584.1	582.0
50°	506.7	500.6	502.7	502.7	504.7	502.7	506.7	508.8	508.8	504.7	496.6
52.5°	437.5	435.5	435.5	439.6	439.6	437.5	437.5	437.5	437.5	431.4	427.4
55°	380.6	376.5	378.5	378.5	378.5	378.5	380.6	378.5	378.5	372.4	366.3
57.5°	329.7	325.6	325.6	325.6	327.7	325.6	325.6	325.6	323.6	317.5	309.3
60°	280.8	278.8	280.8	280.8	282.9	280.8	280.8	280.8	276.8	270.7	262.5
62.5°	240.1	240.1	240.1	242.2	242.2	240.1	240.1	238.1	236.1	227.9	219.8
65°	205.5	203.5	205.5	205.5	207.6	207.6	205.5	203.5	201.5	193.3	185.2
67.5°	170.9	168.9	170.9	170.9	173.0	170.9	170.9	170.9	164.8	160.8	152.6
70°	138.4	136.4	136.4	136.4	138.4	134.3	136.4	136.4	132.3	126.2	118.0
72.5°	105.8	105.8	105.8	105.8	105.8	105.8	103.8	103.8	99.7	93.6	89.5
75°	77.3	77.3	79.4	79.4	77.3	77.3	77.3	75.3	73.3	69.2	65.1
77.5°	57.0	57.0	57.0	57.0	54.9	54.9	54.9	52.9	50.9	48.8	44.8
80°	40.7	40.7	40.7	38.7	40.7	38.7	38.7	38.7	34.6	32.6	30.5
82.5°	28.5	26.5	26.5	26.5	26.5	26.5	26.5	24.4	24.4	22.4	20.4
85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.2	12.2	12.2
87.5°	8.1	10.2	10.2	10.2	10.2	10.2	10.2	8.1	8.1	8.1	6.1
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: P252275

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1
2.5°	1676.9	1676.9	1681.0	1674.9	1685.1	1679.0	1676.9	1687.1	1681.0	1679.0	1683.0
5°	1662.7	1664.7	1666.8	1662.7	1672.9	1666.8	1666.8	1676.9	1672.9	1670.8	1676.9
7.5°	1644.4	1646.4	1650.5	1648.4	1656.6	1652.5	1654.5	1664.7	1660.6	1660.6	1666.8
10°	1622.0	1626.0	1630.1	1630.1	1640.3	1636.2	1636.2	1648.4	1644.4	1646.4	1654.5
12.5°	1595.5	1601.6	1607.7	1609.8	1619.9	1613.8	1615.9	1630.1	1628.1	1630.1	1638.3
15°	1567.0	1575.2	1581.3	1581.3	1593.5	1587.4	1593.5	1607.7	1603.7	1611.8	1622.0
17.5°	1534.5	1542.6	1550.7	1552.8	1565.0	1560.9	1569.1	1583.3	1583.3	1587.4	1599.6
20°	1503.9	1514.1	1518.2	1524.3	1536.5	1534.5	1538.5	1554.8	1554.8	1560.9	1573.1
22.5°	1463.2	1473.4	1481.6	1487.7	1497.8	1497.8	1503.9	1518.2	1518.2	1522.3	1534.5
25°	1418.5	1430.7	1436.8	1442.9	1453.1	1451.0	1457.1	1469.3	1471.4	1475.5	1487.7
27.5°	1361.5	1371.7	1379.8	1383.9	1398.1	1390.0	1396.1	1410.3	1408.3	1412.4	1422.5
30°	1290.3	1300.4	1308.6	1308.6	1320.8	1320.8	1326.9	1333.0	1333.0	1337.1	1345.2
32.5°	1206.8	1219.0	1219.0	1225.1	1233.3	1225.1	1233.3	1241.4	1237.3	1243.4	1249.6
35°	1111.2	1117.3	1119.3	1119.3	1125.4	1123.4	1121.3	1127.4	1123.4	1133.6	1139.7
37.5°	995.2	1003.3	999.2	1003.3	1001.3	995.2	995.2	1005.3	997.2	999.2	1005.3
40°	883.2	883.2	881.2	871.0	873.1	867.0	864.9	867.0	858.8	856.8	864.9
42.5°	767.2	765.2	759.1	744.8	746.9	736.7	728.6	728.6	724.5	722.5	724.5
45°	663.4	657.3	647.2	630.9	626.8	618.7	602.4	598.3	592.2	592.2	594.3
47.5°	567.8	559.7	543.4	525.1	514.9	504.7	488.4	482.3	472.1	468.1	472.1
50°	488.4	474.2	453.8	427.4	417.2	405.0	388.7	378.5	368.4	364.3	362.2
52.5°	415.2	394.8	374.5	341.9	333.8	321.5	299.2	289.0	278.8	270.7	270.7
55°	352.1	333.8	305.3	274.7	262.5	250.3	227.9	213.7	203.5	199.4	195.4
57.5°	295.1	274.7	248.3	215.7	203.5	191.3	168.9	154.7	144.5	138.4	134.3
60°	248.3	225.9	199.4	170.9	156.7	144.5	122.1	107.9	97.7	91.6	87.5
62.5°	203.5	185.2	158.7	132.3	120.1	107.9	89.5	75.3	65.1	61.1	54.9
65°	170.9	152.6	128.2	105.8	95.6	83.4	67.2	54.9	46.8	40.7	36.6
67.5°	138.4	124.1	103.8	83.4	73.3	65.1	50.9	40.7	32.6	28.5	26.5
70°	109.9	95.6	79.4	63.1	57.0	48.8	38.7	28.5	24.4	20.4	18.3
72.5°	81.4	71.2	59.0	46.8	40.7	36.6	26.5	22.4	16.3	14.2	12.2
75°	59.0	50.9	42.7	32.6	28.5	26.5	20.4	14.2	12.2	10.2	8.1
77.5°	40.7	36.6	28.5	22.4	20.4	18.3	14.2	10.2	8.1	6.1	6.1
80°	26.5	22.4	18.3	14.2	14.2	12.2	8.1	6.1	6.1	4.1	4.1
82.5°	16.3	14.2	12.2	10.2	8.1	8.1	6.1	4.1	4.1	2.0	2.0
85°	10.2	8.1	6.1	6.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0
87.5°	4.1	4.1	4.1	2.0	2.0	2.0	2.0	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



TEST NUMBER: P252275

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1
2.5°	1683.0	1683.0	1687.1	1681.0	1685.1	1685.1	1689.1	1681.0	1685.1	1687.1	1691.2
5°	1674.9	1676.9	1681.0	1679.0	1681.0	1681.0	1685.1	1674.9	1683.0	1683.0	1689.1
7.5°	1666.8	1666.8	1670.8	1668.8	1672.9	1674.9	1679.0	1670.8	1679.0	1679.0	1685.1
10°	1656.6	1656.6	1662.7	1660.6	1666.8	1668.8	1674.9	1666.8	1674.9	1676.9	1683.0
12.5°	1642.3	1644.4	1650.5	1650.5	1656.6	1660.6	1666.8	1662.7	1672.9	1674.9	1683.0
15°	1626.0	1630.1	1638.3	1636.2	1642.3	1648.4	1656.6	1650.5	1664.7	1668.8	1676.9
17.5°	1605.7	1609.8	1615.9	1615.9	1622.0	1626.0	1636.2	1632.2	1644.4	1646.4	1656.6
20°	1575.2	1581.3	1589.4	1587.4	1593.5	1597.6	1605.7	1601.6	1613.8	1617.9	1628.1
22.5°	1538.5	1542.6	1548.7	1548.7	1554.8	1558.9	1567.0	1560.9	1573.1	1575.2	1583.3
25°	1489.7	1493.8	1497.8	1499.9	1506.0	1508.0	1512.1	1508.0	1518.2	1520.2	1530.4
27.5°	1426.6	1428.6	1434.7	1434.7	1438.8	1440.9	1447.0	1438.8	1453.1	1453.1	1459.2
30°	1351.3	1349.3	1357.4	1353.3	1357.4	1357.4	1363.5	1359.4	1369.6	1365.6	1371.7
32.5°	1251.6	1255.7	1255.7	1251.6	1259.7	1257.7	1257.7	1253.6	1259.7	1261.8	1265.8
35°	1135.6	1141.7	1141.7	1143.7	1145.8	1139.7	1141.7	1129.5	1139.7	1141.7	1143.7
37.5°	1009.4	1003.3	1007.4	1001.3	1011.4	999.2	999.2	991.1	999.2	999.2	1001.3
40°	864.9	862.9	867.0	862.9	860.8	858.8	854.7	848.6	856.8	852.7	858.8
42.5°	728.6	726.5	726.5	722.5	720.4	720.4	716.4	712.3	710.3	710.3	720.4
45°	588.1	592.2	588.1	586.1	590.2	586.1	588.1	580.0	584.1	580.0	584.1
47.5°	470.1	472.1	468.1	464.0	470.1	464.0	464.0	457.9	466.0	466.0	462.0
50°	364.3	362.2	358.2	362.2	360.2	360.2	360.2	354.1	358.2	352.1	356.1
52.5°	268.6	266.6	266.6	264.6	266.6	264.6	264.6	262.5	262.5	260.5	262.5
55°	195.4	193.3	189.3	189.3	189.3	191.3	189.3	187.2	187.2	185.2	187.2
57.5°	132.3	128.2	128.2	128.2	128.2	126.2	126.2	124.1	126.2	124.1	126.2
60°	85.5	85.5	81.4	81.4	81.4	81.4	81.4	79.4	81.4	81.4	81.4
62.5°	52.9	52.9	50.9	48.8	50.9	48.8	48.8	48.8	50.9	48.8	50.9
65°	34.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
67.5°	24.4	22.4	22.4	22.4	22.4	22.4	22.4	20.4	22.4	22.4	22.4
70°	16.3	16.3	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	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	0.0	0.0	0.0



TEST NUMBER: P252275

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1
2.5°	1685.1	1687.1	1683.0	1685.1	1681.0	1685.1	1687.1	1691.2
5°	1681.0	1683.0	1679.0	1683.0	1679.0	1683.0	1685.1	1689.1
7.5°	1676.9	1681.0	1676.9	1681.0	1676.9	1681.0	1683.0	1687.1
10°	1676.9	1683.0	1679.0	1685.1	1679.0	1683.0	1687.1	1689.1
12.5°	1676.9	1683.0	1681.0	1685.1	1683.0	1687.1	1691.2	1695.2
15°	1672.9	1679.0	1674.9	1681.0	1679.0	1681.0	1689.1	1689.1
17.5°	1650.5	1656.6	1656.6	1660.6	1660.6	1666.8	1670.8	1674.9
20°	1622.0	1628.1	1626.0	1632.2	1632.2	1638.3	1642.3	1646.4
22.5°	1579.2	1587.4	1585.3	1591.5	1589.4	1593.5	1601.6	1599.6
25°	1524.3	1534.5	1532.4	1536.5	1534.5	1534.5	1538.5	1540.6
27.5°	1457.1	1463.2	1461.2	1465.3	1461.2	1465.3	1469.3	1471.4
30°	1369.6	1373.7	1371.7	1373.7	1371.7	1375.7	1377.8	1381.8
32.5°	1263.8	1269.9	1263.8	1267.9	1265.8	1265.8	1274.0	1269.9
35°	1137.6	1139.7	1141.7	1141.7	1137.6	1139.7	1143.7	1143.7
37.5°	997.2	1007.4	995.2	1001.3	999.2	999.2	999.2	1005.3
40°	850.7	852.7	848.6	848.6	848.6	846.6	854.7	852.7
42.5°	712.3	714.3	712.3	706.2	708.2	708.2	714.3	706.2
45°	578.0	582.0	580.0	580.0	575.9	575.9	578.0	573.9
47.5°	457.9	462.0	455.9	457.9	453.8	457.9	455.9	459.9
50°	348.0	352.1	350.0	352.1	352.1	348.0	354.1	346.0
52.5°	260.5	262.5	260.5	258.5	256.4	256.4	260.5	258.5
55°	185.2	183.2	183.2	183.2	185.2	185.2	183.2	181.1
57.5°	124.1	124.1	122.1	122.1	124.1	120.1	122.1	120.1
60°	79.4	79.4	79.4	79.4	77.3	79.4	79.4	79.4
62.5°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
65°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
67.5°	20.4	22.4	22.4	22.4	20.4	20.4	20.4	20.4
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0
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)