

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: P252179

Luminaire Tested: **LD6B30D010 EU6B30509730 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509730 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2808.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

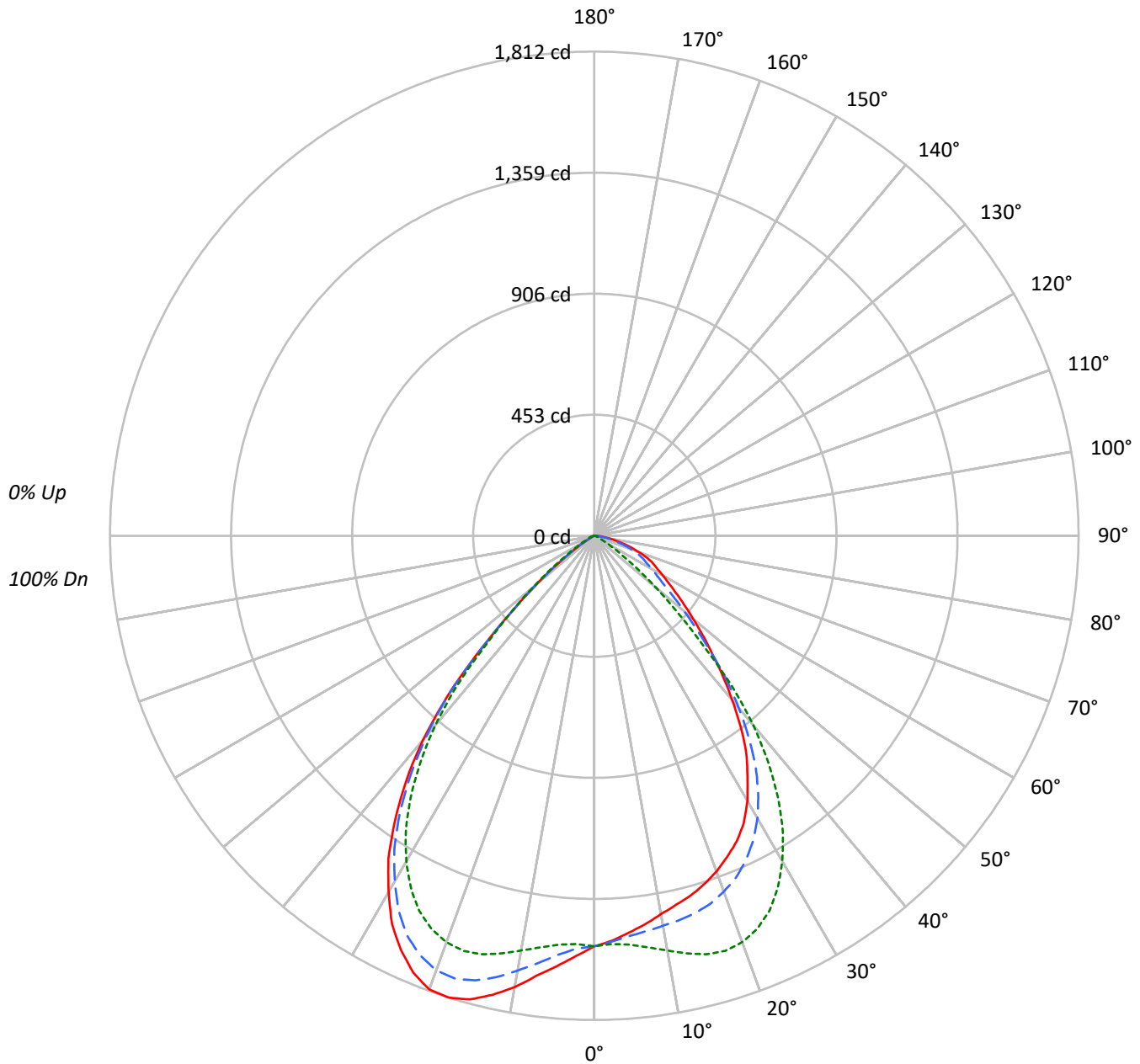
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90						
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80						
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72						
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65						
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58						
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53						
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48						
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44						
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40						
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	100223	100223	100223
5°	97626	100605	105897
10°	95250	104399	113640
15°	94133	109513	121312
20°	92790	112362	125414
25°	90816	111534	123166
30°	86294	105994	115946
35°	78951	95565	103513
40°	68294	78923	84927
45°	57591	51760	55552
50°	48891	29962	28175
55°	42426	14366	10863
60°	38322	6707	2688
65°	37188	3859	911
70°	33343	3090	839
75°	27400	2218	378
80°	20401	1090	0
85°	17591	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	5.3
10°-20°	452.2	16.1
20°-30°	690.9	24.6
30°-40°	722.7	25.7
40°-50°	468.8	16.7
50°-60°	186.1	6.6
60°-70°	88.3	3.1
70°-80°	42.0	1.5
80°-90°	8.6	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°	1291.5	46.0
0°-40°	2014.2	71.7
0°-60°	2669.1	95.1
0°-90°	2808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1536	1536	1536	1536	1536	
5°	1491	1504	1536	1574	1617	141
15°	1394	1461	1621	1723	1796	393
25°	1262	1341	1549	1654	1711	578
35°	991	1052	1200	1270	1300	613
45°	624	618	561	595	602	486
55°	373	317	126	98	96	338
65°	241	200	25	6	6	235
75°	109	88	9	3	2	117
85°	24	15	0	0	0	27
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°	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2
2.5°	1517.1	1520.0	1503.9	1499.5	1511.2	1515.6	1517.1	1512.7	1514.2	1520.0	1520.0
5°	1490.7	1493.6	1478.9	1474.5	1486.3	1489.2	1493.6	1492.1	1496.5	1505.4	1503.9
7.5°	1465.7	1470.1	1454.0	1448.1	1462.8	1470.1	1473.0	1473.0	1478.9	1490.7	1492.1
10°	1437.8	1443.7	1429.0	1426.0	1442.2	1449.5	1451.0	1454.0	1462.8	1478.9	1481.9
12.5°	1414.3	1420.2	1409.9	1405.5	1423.1	1430.5	1433.4	1439.3	1449.5	1470.1	1473.0
15°	1393.7	1398.1	1386.4	1383.5	1401.1	1409.9	1411.4	1420.2	1433.4	1456.9	1461.3
17.5°	1367.3	1370.2	1361.4	1358.5	1376.1	1384.9	1386.4	1396.7	1412.8	1436.3	1443.7
20°	1336.5	1339.4	1330.6	1327.7	1345.3	1355.6	1357.0	1365.8	1384.9	1409.9	1417.2
22.5°	1299.7	1305.6	1295.3	1292.4	1310.0	1318.8	1323.2	1330.6	1349.7	1374.6	1384.9
25°	1261.6	1261.6	1254.2	1252.8	1268.9	1279.2	1277.7	1288.0	1307.1	1332.1	1340.9
27.5°	1211.6	1210.2	1202.8	1201.3	1219.0	1227.8	1224.8	1235.1	1252.8	1277.7	1286.5
30°	1145.5	1148.5	1138.2	1135.3	1149.9	1164.6	1163.2	1173.4	1191.1	1214.6	1220.4
32.5°	1066.2	1069.2	1067.7	1063.3	1076.5	1083.9	1088.3	1095.6	1110.3	1135.3	1141.1
35°	991.3	986.9	981.1	981.1	994.3	1006.0	1001.6	1010.4	1025.1	1050.1	1051.5
37.5°	898.8	897.3	894.4	891.5	906.2	909.1	910.6	916.4	929.6	950.2	947.3
40°	801.9	803.3	801.9	796.0	804.8	816.6	815.1	818.0	829.8	844.5	840.1
42.5°	710.8	710.8	710.8	704.9	715.2	721.1	724.0	722.6	725.5	738.7	732.9
45°	624.2	625.6	624.2	622.7	624.2	627.1	624.2	622.7	622.7	627.1	618.3
47.5°	549.3	549.3	544.9	540.5	544.9	546.3	541.9	537.5	536.1	534.6	519.9
50°	481.7	480.2	478.8	471.4	475.8	477.3	471.4	468.5	462.6	455.3	437.7
52.5°	423.0	421.5	420.0	412.7	415.6	417.1	411.2	405.3	398.0	392.1	370.1
55°	373.0	371.6	371.6	367.2	364.2	367.2	361.3	356.9	346.6	339.3	317.2
57.5°	330.4	330.4	327.5	323.1	324.6	324.6	318.7	312.8	304.0	295.2	277.6
60°	293.7	293.7	293.7	289.3	289.3	289.3	286.4	280.5	273.2	264.4	246.7
62.5°	264.4	264.4	262.9	258.5	259.9	259.9	257.0	251.1	243.8	237.9	220.3
65°	240.9	240.9	240.9	236.5	236.5	237.9	235.0	229.1	223.2	215.9	199.7
67.5°	211.5	210.0	210.0	207.1	208.5	210.0	207.1	202.7	195.3	190.9	176.2
70°	174.8	176.2	177.7	173.3	174.8	174.8	173.3	168.9	164.5	160.1	146.9
72.5°	142.5	142.5	141.0	139.5	139.5	141.0	138.1	133.6	130.7	127.8	117.5
75°	108.7	107.2	108.7	105.7	105.7	105.7	102.8	101.3	99.9	95.5	88.1
77.5°	79.3	77.8	77.8	74.9	76.4	76.4	74.9	72.0	69.0	67.6	61.7
80°	54.3	54.3	54.3	52.9	52.9	51.4	51.4	49.9	47.0	45.5	42.6
82.5°	36.7	36.7	36.7	35.2	35.2	35.2	33.8	32.3	30.8	29.4	26.4
85°	23.5	23.5	23.5	22.0	22.0	22.0	20.6	20.6	19.1	17.6	14.7
87.5°	13.2	13.2	13.2	11.7	11.7	11.7	11.7	11.7	10.3	8.8	7.3
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°	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2
2.5°	1530.3	1509.8	1523.0	1523.0	1518.6	1530.3	1537.7	1543.5	1542.1	1528.9	1527.4
5°	1518.6	1501.0	1515.6	1517.1	1512.7	1528.9	1539.1	1546.5	1547.9	1536.2	1537.7
7.5°	1509.8	1495.1	1514.2	1520.0	1518.6	1533.3	1545.0	1556.8	1562.6	1553.8	1555.3
10°	1505.4	1493.6	1514.2	1523.0	1524.4	1540.6	1558.2	1574.4	1581.7	1575.9	1580.3
12.5°	1499.5	1492.1	1515.6	1528.9	1534.7	1550.9	1572.9	1592.0	1603.8	1600.8	1609.6
15°	1493.6	1487.7	1515.6	1534.7	1542.1	1556.8	1581.7	1609.6	1622.8	1621.4	1633.1
17.5°	1478.9	1477.5	1506.8	1527.4	1537.7	1555.3	1578.8	1612.6	1625.8	1628.7	1643.4
20°	1455.4	1455.4	1487.7	1509.8	1521.5	1537.7	1567.0	1599.3	1615.5	1618.4	1634.6
22.5°	1423.1	1426.0	1456.9	1478.9	1496.5	1508.3	1539.1	1572.9	1587.6	1592.0	1609.6
25°	1380.5	1383.5	1412.8	1434.9	1454.0	1467.2	1496.5	1527.4	1545.0	1549.4	1562.6
27.5°	1324.7	1330.6	1358.5	1380.5	1396.7	1405.5	1436.3	1468.6	1481.9	1486.3	1499.5
30°	1260.1	1261.6	1289.5	1308.6	1324.7	1332.1	1358.5	1392.3	1402.6	1407.0	1426.0
32.5°	1180.8	1179.3	1205.8	1223.4	1236.6	1245.4	1273.3	1295.3	1305.6	1313.0	1323.2
35°	1085.3	1083.9	1102.9	1123.5	1133.8	1136.7	1164.6	1188.1	1194.0	1199.9	1213.1
37.5°	978.1	978.1	994.3	1004.5	1016.3	1020.7	1033.9	1060.4	1070.6	1069.2	1079.5
40°	865.0	859.2	870.9	881.2	884.1	885.6	898.8	919.4	926.7	926.7	934.1
42.5°	746.1	737.3	738.7	744.6	747.5	737.3	746.1	759.3	754.9	760.8	762.2
45°	619.8	606.5	600.7	587.5	590.4	580.1	574.2	577.2	575.7	561.0	564.0
47.5°	517.0	493.5	483.2	464.1	459.7	447.9	440.6	427.4	415.6	415.6	408.3
50°	430.3	406.8	386.3	364.2	356.9	346.6	330.4	312.8	304.0	295.2	287.9
52.5°	361.3	336.3	311.4	287.9	277.6	264.4	242.3	224.7	208.5	199.7	190.9
55°	305.5	277.6	251.1	226.2	213.0	199.7	177.7	157.1	138.1	126.3	119.0
57.5°	262.9	236.5	208.5	182.1	170.4	155.7	132.2	110.1	92.5	79.3	72.0
60°	232.0	205.6	180.6	152.7	141.0	126.3	101.3	80.8	63.2	51.4	42.6
62.5°	205.6	182.1	155.7	130.7	119.0	104.3	80.8	60.2	44.1	32.3	25.0
65°	186.5	163.0	141.0	116.0	105.7	91.1	69.0	49.9	35.2	25.0	17.6
67.5°	164.5	143.9	121.9	101.3	91.1	79.3	58.7	42.6	29.4	20.6	14.7
70°	138.1	121.9	102.8	83.7	76.4	66.1	48.5	35.2	23.5	16.2	11.7
72.5°	110.1	96.9	82.2	67.6	61.7	51.4	39.7	27.9	17.6	11.7	8.8
75°	83.7	73.4	61.7	51.4	45.5	39.7	29.4	20.6	13.2	8.8	5.9
77.5°	57.3	52.9	44.1	35.2	32.3	27.9	19.1	13.2	8.8	5.9	2.9
80°	39.7	35.2	29.4	23.5	20.6	17.6	11.7	8.8	4.4	2.9	1.5
82.5°	25.0	20.6	17.6	14.7	13.2	10.3	7.3	4.4	2.9	1.5	1.5
85°	13.2	11.7	10.3	7.3	7.3	5.9	4.4	2.9	1.5	0.0	0.0
87.5°	7.3	5.9	4.4	2.9	2.9	1.5	1.5	1.5	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°	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2
2.5°	1545.0	1545.0	1543.5	1561.2	1540.6	1561.2	1550.9	1561.2	1546.5	1545.0	1546.5
5°	1556.8	1561.2	1562.6	1578.8	1559.7	1584.7	1575.9	1584.7	1574.4	1577.3	1581.7
7.5°	1580.3	1587.6	1586.1	1606.7	1587.6	1615.5	1609.6	1622.8	1612.6	1615.5	1621.4
10°	1606.7	1615.5	1617.0	1637.5	1619.9	1653.7	1646.3	1661.0	1652.2	1656.6	1664.0
12.5°	1637.5	1647.8	1649.3	1672.8	1653.7	1688.9	1684.5	1699.2	1691.9	1696.3	1705.1
15°	1661.0	1675.7	1678.7	1702.2	1681.6	1718.3	1715.4	1734.5	1722.7	1730.1	1737.4
17.5°	1672.8	1686.0	1691.9	1713.9	1696.3	1733.0	1730.1	1746.2	1737.4	1744.7	1753.6
20°	1665.4	1681.6	1686.0	1708.0	1690.4	1727.1	1722.7	1738.9	1730.1	1735.9	1744.7
22.5°	1639.0	1655.2	1661.0	1681.6	1665.4	1699.2	1697.7	1712.4	1700.7	1708.0	1715.4
25°	1592.0	1609.6	1612.6	1631.7	1614.0	1649.3	1646.3	1662.5	1653.7	1658.1	1668.4
27.5°	1524.4	1545.0	1549.4	1565.6	1552.4	1581.7	1581.7	1594.9	1584.7	1584.7	1594.9
30°	1443.7	1464.2	1467.2	1480.4	1468.6	1495.1	1496.5	1509.8	1493.6	1502.4	1503.9
32.5°	1345.3	1358.5	1367.3	1379.1	1361.4	1395.2	1390.8	1401.1	1392.3	1392.3	1399.6
35°	1226.3	1242.5	1246.9	1261.6	1246.9	1273.3	1273.3	1279.2	1270.4	1270.4	1282.1
37.5°	1097.1	1108.8	1110.3	1125.0	1113.2	1135.3	1133.8	1138.2	1129.4	1135.3	1135.3
40°	945.8	954.6	957.6	964.9	963.4	979.6	978.1	981.1	976.6	978.1	981.1
42.5°	769.6	781.3	787.2	793.1	784.3	806.3	801.9	806.3	804.8	806.3	810.7
45°	566.9	575.7	580.1	581.6	578.6	591.9	602.1	593.3	594.8	591.9	597.7
47.5°	409.8	411.2	408.3	417.1	409.8	415.6	418.6	420.0	411.2	409.8	415.6
50°	280.5	287.9	277.6	282.0	280.5	286.4	283.4	284.9	276.1	280.5	277.6
52.5°	186.5	185.0	182.1	183.6	180.6	180.6	180.6	183.6	177.7	174.8	171.8
55°	113.1	110.1	104.3	102.8	102.8	104.3	101.3	98.4	98.4	96.9	96.9
57.5°	66.1	61.7	58.7	57.3	54.3	52.9	51.4	51.4	48.5	48.5	48.5
60°	36.7	32.3	29.4	26.4	26.4	25.0	23.5	22.0	22.0	22.0	20.6
62.5°	19.1	16.2	13.2	11.7	11.7	10.3	8.8	8.8	8.8	8.8	7.3
65°	13.2	10.3	8.8	7.3	7.3	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	10.3	8.8	7.3	5.9	5.9	5.9	4.4	4.4	4.4	4.4	4.4
70°	8.8	5.9	5.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	5.9	5.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	4.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
80°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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



TEST NUMBER: P252179

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2	1536.2
2.5°	1559.7	1558.2	1559.7	1562.6	1556.8	1574.4	1565.6	1574.4
5°	1593.5	1594.9	1596.4	1600.8	1593.5	1615.5	1603.8	1617.0
7.5°	1637.5	1639.0	1640.5	1644.9	1640.5	1662.5	1649.3	1661.0
10°	1683.1	1686.0	1686.0	1693.3	1688.9	1709.5	1700.7	1715.4
12.5°	1725.7	1728.6	1731.5	1735.9	1733.0	1755.0	1747.7	1759.4
15°	1759.4	1765.3	1766.8	1772.6	1769.7	1793.2	1784.4	1796.1
17.5°	1775.6	1781.5	1781.5	1788.8	1785.9	1810.8	1799.1	1812.3
20°	1766.8	1771.2	1772.6	1780.0	1777.1	1802.0	1790.3	1806.4
22.5°	1738.9	1740.3	1741.8	1749.2	1747.7	1769.7	1759.4	1769.7
25°	1687.5	1691.9	1690.4	1696.3	1696.3	1713.9	1702.2	1711.0
27.5°	1614.0	1618.4	1618.4	1625.8	1619.9	1637.5	1625.8	1639.0
30°	1524.4	1528.9	1525.9	1531.8	1525.9	1543.5	1534.7	1539.1
32.5°	1417.2	1417.2	1418.7	1420.2	1417.2	1433.4	1424.6	1433.4
35°	1289.5	1292.4	1293.9	1295.3	1292.4	1304.2	1293.9	1299.7
37.5°	1145.5	1152.9	1151.4	1152.9	1148.5	1163.2	1154.4	1157.3
40°	991.3	991.3	989.9	992.8	988.4	1000.1	994.3	997.2
42.5°	812.2	816.6	810.7	818.0	806.3	822.4	816.6	812.2
45°	609.5	603.6	602.1	603.6	599.2	600.7	605.1	602.1
47.5°	415.6	415.6	412.7	408.3	414.2	415.6	409.8	409.8
50°	279.0	279.0	276.1	274.6	277.6	276.1	273.2	277.6
52.5°	177.7	171.8	171.8	174.8	171.8	168.9	173.3	170.4
55°	96.9	94.0	94.0	96.9	94.0	94.0	92.5	95.5
57.5°	47.0	48.5	47.0	47.0	47.0	47.0	45.5	47.0
60°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
62.5°	8.8	8.8	7.3	7.3	7.3	7.3	7.3	7.3
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	4.4	4.4	4.4	4.4	4.4	5.9	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	4.4	4.4	5.9	5.9	5.9	5.9	5.9	5.9
75°	2.9	2.9	2.9	1.5	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)