

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: P252583

Luminaire Tested: **LD6B30D010 EU6B30508027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252583
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 EU6B30508027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2818.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

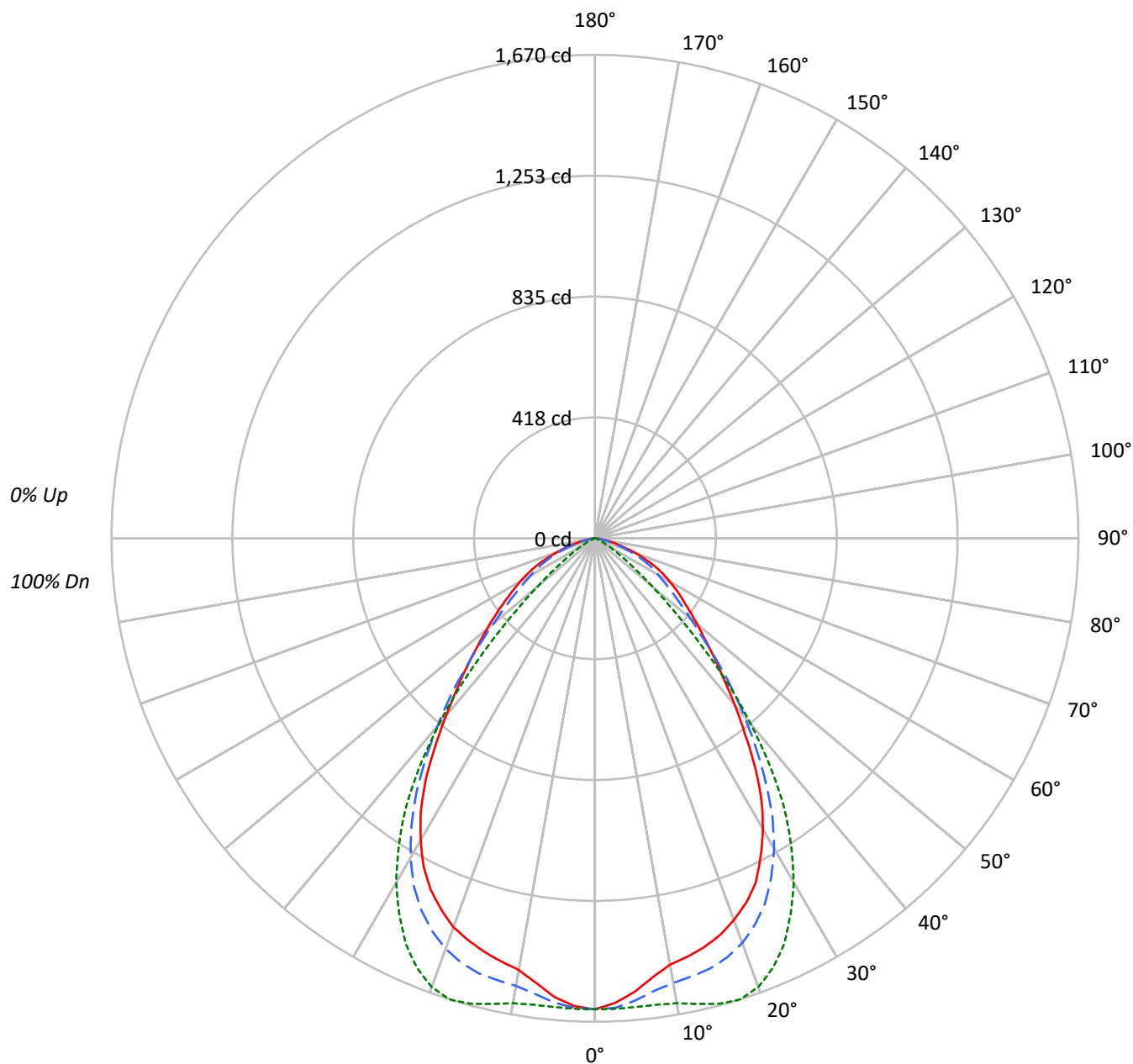
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	106146	106146	106146
5°	102976	106428	104207
10°	99059	108029	100305
15°	98713	112431	99854
20°	97414	114521	99247
25°	94509	111296	96539
30°	87424	103440	90686
35°	76697	90930	81189
40°	63917	71284	68081
45°	53799	47027	57444
50°	46577	25770	49449
55°	42142	13695	43211
60°	38779	7111	38779
65°	35135	3782	34255
70°	28346	2155	26190
75°	19435	1412	18023
80°	12736	714	11309
85°	8459	1422	7036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	5.4
10°-20°	438.7	15.6
20°-30°	648.2	23.0
30°-40°	654.7	23.2
40°-50°	451.3	16.0
50°-60°	259.2	9.2
60°-70°	150.8	5.4
70°-80°	55.0	2.0
80°-90°	8.4	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°	1238.6	44.0
0°-40°	1893.3	67.2
0°-60°	2603.7	92.4
0°-90°	2818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1627	1627	1627	1627	1627	
5°	1572	1602	1625	1610	1591	148
15°	1462	1539	1665	1556	1478	412
25°	1313	1390	1546	1418	1341	598
35°	963	1029	1142	1076	1019	598
45°	583	591	510	628	623	453
55°	370	325	120	339	380	334
65°	228	192	24	190	222	223
75°	77	62	6	60	72	87
85°	11	6	2	8	9	14
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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1606.3	1608.2	1610.0	1608.2	1610.0	1617.6	1611.9	1615.7	1615.7	1617.6	1623.2
5°	1572.4	1572.4	1576.2	1574.3	1579.9	1587.5	1581.8	1587.5	1589.4	1593.1	1602.5
7.5°	1529.2	1529.2	1531.0	1531.0	1538.6	1546.1	1542.3	1549.9	1557.4	1564.9	1576.2
10°	1495.3	1499.1	1499.1	1501.0	1508.5	1517.9	1516.0	1525.4	1532.9	1544.2	1559.3
12.5°	1480.3	1482.1	1482.1	1485.9	1493.4	1502.8	1501.0	1510.4	1521.6	1534.8	1549.9
15°	1461.5	1465.2	1463.3	1467.1	1474.6	1484.0	1482.1	1491.5	1504.7	1517.9	1538.6
17.5°	1437.0	1438.9	1440.8	1440.8	1448.3	1455.8	1455.8	1465.2	1480.3	1495.3	1517.9
20°	1403.1	1406.9	1406.9	1408.8	1414.4	1425.7	1423.8	1433.2	1448.3	1463.3	1487.8
22.5°	1363.6	1365.5	1365.5	1367.4	1376.8	1382.5	1384.3	1391.9	1405.0	1422.0	1444.5
25°	1312.9	1314.7	1312.9	1318.5	1322.3	1333.6	1329.8	1339.2	1354.2	1367.4	1390.0
27.5°	1239.5	1243.3	1243.3	1245.2	1254.6	1264.0	1264.0	1273.4	1286.5	1295.9	1318.5
30°	1160.5	1166.2	1160.5	1169.9	1173.7	1181.2	1186.8	1192.5	1203.8	1216.9	1237.6
32.5°	1070.2	1068.3	1070.2	1074.0	1085.3	1090.9	1094.7	1100.3	1111.6	1122.9	1139.8
35°	963.0	966.8	968.7	976.2	976.2	985.6	987.5	991.2	1008.2	1015.7	1028.8
37.5°	850.2	853.9	855.8	859.6	867.1	870.9	876.5	882.1	893.4	906.6	914.1
40°	750.5	750.5	752.4	756.1	761.8	763.6	769.3	776.8	784.3	795.6	803.1
42.5°	656.4	658.3	656.4	660.2	665.8	673.4	671.5	680.9	682.8	690.3	695.9
45°	583.1	583.1	579.3	583.1	583.1	590.6	588.7	592.5	590.6	594.4	590.6
47.5°	513.5	515.4	513.5	515.4	515.4	515.4	517.2	513.5	515.4	509.7	498.4
50°	458.9	460.8	457.1	458.9	457.1	455.2	457.1	451.4	449.5	442.0	430.7
52.5°	411.9	410.0	408.2	408.2	408.2	406.3	404.4	398.7	393.1	385.6	372.4
55°	370.5	368.7	366.8	366.8	363.0	361.1	361.1	355.5	349.8	340.4	325.4
57.5°	332.9	331.0	329.2	329.2	327.3	323.5	323.5	317.9	310.3	299.1	285.9
60°	297.2	297.2	297.2	295.3	295.3	291.5	291.5	285.9	278.4	267.1	252.0
62.5°	265.2	263.3	263.3	263.3	263.3	261.4	259.6	255.8	248.3	237.0	223.8
65°	227.6	227.6	227.6	227.6	225.7	225.7	225.7	220.1	216.3	205.0	191.9
67.5°	186.2	186.2	186.2	186.2	184.3	186.2	186.2	182.4	178.7	167.4	156.1
70°	148.6	146.7	144.8	146.7	144.8	144.8	146.7	142.9	141.1	131.7	120.4
72.5°	109.1	111.0	109.1	109.1	109.1	107.2	109.1	107.2	103.4	95.9	88.4
75°	77.1	79.0	79.0	77.1	77.1	77.1	75.2	75.2	71.5	65.8	62.1
77.5°	52.7	52.7	52.7	52.7	50.8	50.8	50.8	48.9	47.0	43.3	39.5
80°	33.9	33.9	33.9	33.9	32.0	32.0	32.0	30.1	30.1	26.3	22.6
82.5°	20.7	20.7	20.7	20.7	20.7	20.7	18.8	18.8	16.9	15.0	13.2
85°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.4	9.4	7.5	5.6
87.5°	3.8	3.8	5.6	5.6	5.6	5.6	5.6	5.6	3.8	3.8	3.8
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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1619.4	1621.3	1621.3	1621.3	1627.0	1628.9	1623.2	1617.6	1628.9	1627.0	1630.7
5°	1600.6	1606.3	1610.0	1611.9	1617.6	1621.3	1615.7	1613.8	1623.2	1625.1	1627.0
7.5°	1578.1	1587.5	1596.9	1600.6	1608.2	1611.9	1610.0	1610.0	1621.3	1625.1	1625.1
10°	1563.0	1576.2	1587.5	1596.9	1606.3	1611.9	1611.9	1613.8	1627.0	1630.7	1634.5
12.5°	1559.3	1576.2	1591.2	1604.4	1611.9	1621.3	1623.2	1628.9	1642.0	1647.7	1647.7
15°	1549.9	1572.4	1591.2	1608.2	1619.4	1630.7	1634.5	1645.8	1660.8	1664.6	1668.4
17.5°	1532.9	1555.5	1578.1	1598.8	1613.8	1623.2	1634.5	1645.8	1664.6	1670.2	1672.1
20°	1502.8	1529.2	1551.7	1572.4	1587.5	1600.6	1611.9	1625.1	1642.0	1649.5	1651.4
22.5°	1457.7	1484.0	1506.6	1529.2	1544.2	1555.5	1566.8	1581.8	1598.8	1606.3	1606.3
25°	1403.1	1427.6	1452.0	1469.0	1484.0	1497.2	1502.8	1519.8	1536.7	1546.1	1546.1
27.5°	1333.6	1356.1	1378.7	1397.5	1406.9	1418.2	1427.6	1442.6	1455.8	1463.3	1470.9
30°	1245.2	1267.7	1288.4	1307.2	1318.5	1329.8	1339.2	1350.5	1363.6	1373.1	1374.9
32.5°	1149.2	1168.0	1188.7	1207.5	1218.8	1222.6	1232.0	1243.3	1254.6	1262.1	1264.0
35°	1043.9	1057.1	1070.2	1087.2	1098.4	1098.4	1107.8	1115.4	1124.8	1141.7	1137.9
37.5°	919.8	938.6	948.0	953.6	961.1	968.7	970.5	979.9	991.2	995.0	1000.6
40°	803.1	808.8	814.4	814.4	821.9	821.9	821.9	823.8	835.1	837.0	844.5
42.5°	686.5	686.5	680.9	675.2	677.1	675.2	665.8	665.8	671.5	679.0	679.0
45°	577.4	564.3	547.3	534.2	524.8	521.0	509.7	509.7	507.8	509.7	517.2
47.5°	485.3	462.7	434.5	408.2	398.7	391.2	374.3	366.8	363.0	364.9	368.7
50°	408.2	383.7	351.7	319.8	302.8	293.4	272.7	259.6	257.7	253.9	261.4
52.5°	351.7	321.6	287.8	250.2	233.2	218.2	195.6	184.3	176.8	176.8	178.7
55°	302.8	270.8	233.2	195.6	178.7	167.4	144.8	129.8	122.3	120.4	126.0
57.5°	261.4	231.3	193.7	156.1	139.2	126.0	103.4	90.3	84.6	80.9	82.8
60°	229.5	199.4	161.8	126.0	111.0	95.9	77.1	62.1	54.5	54.5	56.4
62.5°	199.4	171.2	137.3	103.4	90.3	77.1	56.4	43.3	37.6	35.7	37.6
65°	169.3	142.9	114.7	86.5	73.4	62.1	45.1	33.9	26.3	24.5	26.3
67.5°	137.3	116.6	92.2	69.6	58.3	48.9	33.9	24.5	18.8	16.9	18.8
70°	107.2	88.4	69.6	50.8	43.3	35.7	24.5	18.8	13.2	11.3	13.2
72.5°	77.1	64.0	48.9	35.7	30.1	24.5	16.9	13.2	9.4	7.5	9.4
75°	52.7	43.3	32.0	22.6	18.8	16.9	11.3	7.5	5.6	5.6	5.6
77.5°	33.9	26.3	20.7	15.0	11.3	9.4	5.6	3.8	3.8	3.8	3.8
80°	18.8	15.0	11.3	7.5	5.6	5.6	3.8	3.8	1.9	1.9	1.9
82.5°	11.3	7.5	5.6	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
85°	5.6	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1623.2	1625.1	1619.4	1627.0	1621.3	1628.9	1628.9	1621.3	1623.2	1619.4	1627.0
5°	1619.4	1619.4	1615.7	1621.3	1613.8	1621.3	1619.4	1606.3	1610.0	1602.5	1610.0
7.5°	1619.4	1615.7	1610.0	1615.7	1606.3	1611.9	1604.4	1591.2	1587.5	1578.1	1578.1
10°	1625.1	1619.4	1611.9	1613.8	1604.4	1606.3	1595.0	1576.2	1570.5	1559.3	1555.5
12.5°	1638.3	1632.6	1621.3	1625.1	1611.9	1611.9	1596.9	1574.3	1563.0	1548.0	1544.2
15°	1657.1	1647.7	1634.5	1636.4	1623.2	1615.7	1596.9	1570.5	1555.5	1534.8	1529.2
17.5°	1660.8	1651.4	1634.5	1634.5	1617.6	1608.2	1585.6	1555.5	1536.7	1516.0	1504.7
20°	1640.1	1630.7	1611.9	1610.0	1595.0	1581.8	1557.4	1527.3	1508.5	1485.9	1476.5
22.5°	1596.9	1585.6	1568.7	1566.8	1551.7	1544.2	1517.9	1487.8	1469.0	1446.4	1438.9
25°	1532.9	1527.3	1510.4	1508.5	1495.3	1485.9	1463.3	1435.1	1418.2	1395.6	1388.1
27.5°	1457.7	1452.0	1435.1	1435.1	1420.1	1414.4	1393.7	1367.4	1354.2	1333.6	1324.1
30°	1367.4	1359.9	1350.5	1348.6	1335.4	1329.8	1311.0	1286.5	1273.4	1256.4	1252.7
32.5°	1260.2	1254.6	1248.9	1247.0	1233.9	1228.2	1215.1	1190.6	1179.3	1164.3	1158.6
35°	1136.1	1132.3	1126.7	1124.8	1119.1	1113.5	1100.3	1081.5	1075.9	1064.6	1058.9
37.5°	993.1	996.9	993.1	993.1	987.5	989.3	978.1	966.8	961.1	953.6	949.9
40°	838.9	846.4	852.0	852.0	850.2	857.7	855.8	846.4	844.5	840.8	838.9
42.5°	682.8	686.5	697.8	705.3	703.5	722.3	724.1	731.7	737.3	733.5	735.4
45°	519.1	530.4	545.5	553.0	562.4	586.8	600.0	615.1	628.2	635.7	633.9
47.5°	374.3	387.5	404.4	415.7	432.6	462.7	496.6	515.4	534.2	543.6	553.0
50°	270.8	284.0	304.7	321.6	332.9	374.3	410.0	434.5	455.2	468.3	477.7
52.5°	190.0	205.0	227.6	242.6	259.6	299.1	340.4	368.7	391.2	408.2	417.6
55°	131.7	148.6	169.3	184.3	203.1	244.5	284.0	314.1	338.6	353.6	364.9
57.5°	92.2	107.2	127.9	141.1	159.9	199.4	238.9	269.0	293.4	308.5	321.6
60°	62.1	77.1	97.8	111.0	126.0	165.5	201.3	233.2	255.8	270.8	284.0
62.5°	43.3	56.4	77.1	90.3	103.4	137.3	171.2	199.4	221.9	238.9	250.2
65°	33.9	45.1	62.1	73.4	86.5	114.7	142.9	167.4	190.0	206.9	214.4
67.5°	24.5	35.7	48.9	58.3	67.7	92.2	116.6	135.4	156.1	169.3	178.7
70°	16.9	24.5	35.7	43.3	50.8	69.6	88.4	105.3	120.4	129.8	137.3
72.5°	13.2	16.9	24.5	30.1	35.7	48.9	64.0	77.1	88.4	95.9	103.4
75°	7.5	11.3	16.9	20.7	24.5	33.9	43.3	52.7	60.2	65.8	69.6
77.5°	3.8	5.6	9.4	11.3	15.0	20.7	28.2	33.9	39.5	43.3	47.0
80°	3.8	3.8	5.6	5.6	7.5	11.3	15.0	18.8	22.6	26.3	28.2
82.5°	1.9	1.9	3.8	3.8	3.8	5.6	7.5	11.3	13.2	15.0	16.9
85°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6	7.5	9.4	9.4
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	5.6
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: P252583

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1621.3	1625.1	1623.2	1627.0	1621.3	1619.4	1623.2	1617.6
5°	1600.6	1602.5	1600.6	1600.6	1596.9	1593.1	1596.9	1591.2
7.5°	1568.7	1568.7	1563.0	1563.0	1555.5	1551.7	1551.7	1549.9
10°	1542.3	1536.7	1531.0	1532.9	1521.6	1517.9	1516.0	1514.1
12.5°	1529.2	1525.4	1516.0	1516.0	1504.7	1501.0	1499.1	1497.2
15°	1514.1	1506.6	1499.1	1497.2	1487.8	1484.0	1482.1	1478.4
17.5°	1487.8	1482.1	1472.7	1472.7	1463.3	1461.5	1457.7	1455.8
20°	1459.6	1452.0	1444.5	1444.5	1433.2	1433.2	1427.6	1429.5
22.5°	1420.1	1414.4	1406.9	1406.9	1397.5	1395.6	1390.0	1388.1
25°	1373.1	1365.5	1359.9	1358.0	1350.5	1346.7	1344.8	1341.1
27.5°	1311.0	1305.3	1299.7	1295.9	1286.5	1284.6	1279.0	1280.9
30°	1233.9	1230.1	1228.2	1224.5	1213.2	1209.4	1209.4	1203.8
32.5°	1149.2	1143.6	1139.8	1134.2	1124.8	1122.9	1117.3	1119.1
35°	1045.8	1038.3	1032.6	1034.5	1023.2	1021.3	1017.6	1019.4
37.5°	938.6	931.0	923.5	921.6	912.2	912.2	906.6	906.6
40°	827.6	820.1	816.3	816.3	805.0	806.9	801.3	799.4
42.5°	727.9	720.4	718.5	716.6	711.0	709.1	703.5	705.3
45°	633.9	632.0	632.0	628.2	622.6	620.7	622.6	622.6
47.5°	551.1	553.0	551.1	551.1	547.3	551.1	547.3	549.2
50°	481.5	485.3	485.3	485.3	483.4	485.3	485.3	487.2
52.5°	423.2	428.8	427.0	428.8	427.0	430.7	428.8	430.7
55°	372.4	376.2	378.1	379.9	379.9	379.9	379.9	379.9
57.5°	325.4	331.0	332.9	334.8	334.8	338.6	334.8	334.8
60°	287.8	293.4	295.3	297.2	297.2	299.1	295.3	297.2
62.5°	253.9	259.6	259.6	261.4	261.4	261.4	257.7	259.6
65°	220.1	221.9	223.8	223.8	221.9	221.9	220.1	221.9
67.5°	182.4	184.3	182.4	182.4	180.6	180.6	176.8	178.7
70°	141.1	141.1	142.9	141.1	139.2	141.1	139.2	137.3
72.5°	105.3	105.3	105.3	103.4	103.4	101.6	103.4	103.4
75°	71.5	71.5	73.4	73.4	73.4	73.4	71.5	71.5
77.5°	47.0	47.0	47.0	47.0	48.9	47.0	47.0	47.0
80°	30.1	30.1	32.0	32.0	30.1	30.1	30.1	30.1
82.5°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
85°	11.3	11.3	11.3	11.3	9.4	9.4	9.4	9.4
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	3.8	3.8
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)