

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: P252501

Luminaire Tested: **LD6B40D010 EU6B30509040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30509040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3078.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

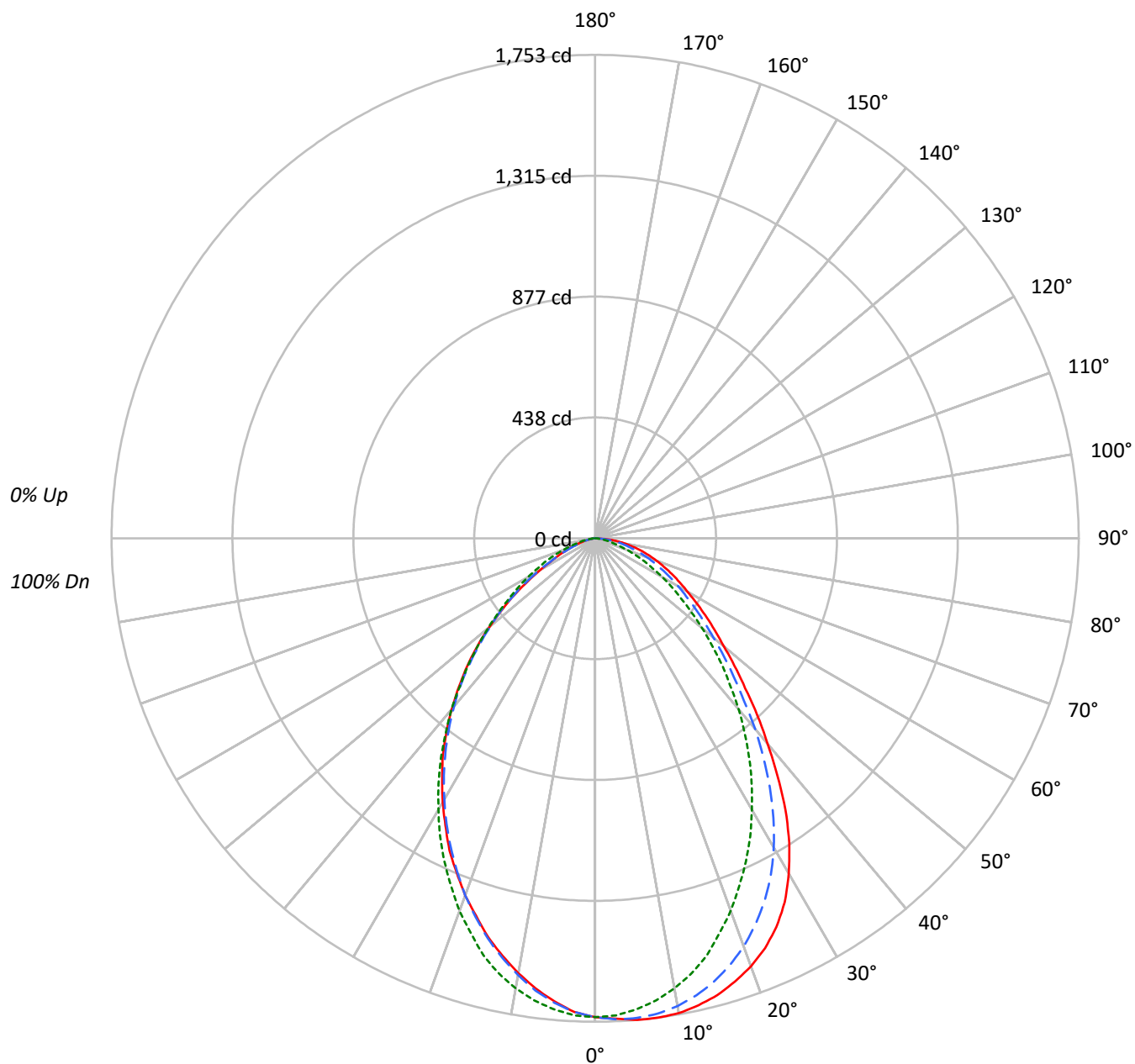
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	103	100	108	105	101	99		100	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		90	86	82			87	84	80			84
3	95	86	79	73	93	84	78	73		81	76	71			79	74	70			76
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	63	50	43	38	61	50	43	38		49	42	37			48	42	37			47
10	59	47	39	35	58	46	39	35		45	39	34			44	38	34			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	113284	113284	113284
5°	114823	112295	110403
10°	115833	109765	106088
15°	115814	105717	101158
20°	114694	99795	95609
25°	111980	93055	89931
30°	105738	85571	83213
35°	95852	77597	76642
40°	82772	69010	68805
45°	70979	60082	60525
50°	61690	51408	50667
55°	55416	43348	40595
60°	50353	36509	29893
65°	47284	30164	21967
70°	45074	23462	16099
75°	43154	17015	10940
80°	40764	11797	7251
85°	36080	7186	3593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	5.3
10°-20°	444.9	14.5
20°-30°	617.6	20.1
30°-40°	639.7	20.8
40°-50°	525.7	17.1
50°-60°	361.3	11.7
60°-70°	207.7	6.7
70°-80°	95.5	3.1
80°-90°	23.2	0.8
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°	1224.9	39.8
0°-40°	1864.6	60.6
0°-60°	2751.6	89.4
0°-90°	3078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3078.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1736	1736	1736	1736	1736	
5°	1753	1746	1715	1691	1686	167
15°	1715	1664	1565	1502	1498	483
25°	1556	1452	1293	1237	1249	712
35°	1204	1105	974	945	962	746
45°	769	712	651	644	656	599
55°	487	441	381	359	357	438
65°	306	268	195	138	142	305
75°	171	135	68	43	43	181
85°	48	34	10	5	5	54
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°	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4
2.5°	1743.7	1758.2	1748.5	1746.1	1750.9	1750.9	1750.9	1743.7	1748.5	1741.3	1746.1
5°	1753.3	1765.4	1755.7	1750.9	1755.7	1758.2	1750.9	1746.1	1753.3	1743.7	1746.1
7.5°	1753.3	1765.4	1755.7	1753.3	1755.7	1755.7	1753.3	1743.7	1748.5	1738.9	1738.9
10°	1748.5	1758.2	1748.5	1743.7	1746.1	1743.7	1743.7	1731.6	1734.0	1722.0	1722.0
12.5°	1734.0	1746.1	1734.0	1729.2	1729.2	1729.2	1722.0	1712.3	1714.7	1700.3	1697.9
15°	1714.7	1724.4	1712.3	1707.5	1707.5	1705.1	1700.3	1685.8	1685.8	1671.3	1664.1
17.5°	1685.8	1695.4	1685.8	1678.6	1676.2	1671.3	1666.5	1652.0	1647.2	1630.3	1623.1
20°	1652.0	1659.3	1649.6	1642.4	1637.6	1632.7	1623.1	1608.6	1603.8	1586.9	1574.9
22.5°	1608.6	1618.3	1603.8	1596.6	1591.7	1584.5	1574.9	1560.4	1553.2	1531.5	1517.0
25°	1555.6	1560.4	1548.3	1541.1	1531.5	1526.6	1519.4	1500.1	1492.9	1468.7	1451.9
27.5°	1488.0	1492.9	1478.4	1473.6	1461.5	1456.7	1447.0	1430.2	1420.5	1396.4	1379.5
30°	1403.6	1408.5	1398.8	1391.6	1381.9	1372.3	1365.0	1348.2	1333.7	1309.6	1295.1
32.5°	1309.6	1316.8	1307.2	1297.5	1280.6	1283.0	1271.0	1254.1	1242.0	1220.3	1203.5
35°	1203.5	1208.3	1196.2	1193.8	1184.2	1174.5	1162.5	1150.4	1143.2	1119.0	1104.6
37.5°	1085.3	1097.3	1085.3	1075.6	1070.8	1063.6	1056.3	1039.5	1034.6	1020.2	1000.9
40°	971.9	979.2	971.9	962.3	955.0	955.0	945.4	935.8	923.7	909.2	902.0
42.5°	870.6	865.8	863.4	858.6	848.9	846.5	844.1	832.0	824.8	810.3	798.3
45°	769.3	771.8	766.9	764.5	757.3	752.5	747.6	738.0	735.6	721.1	711.5
47.5°	684.9	682.5	677.7	677.7	672.9	668.1	663.2	656.0	653.6	641.5	631.9
50°	607.8	610.2	607.8	605.3	598.1	595.7	590.9	586.1	581.2	569.2	559.5
52.5°	545.1	542.6	540.2	540.2	533.0	530.6	525.8	520.9	516.1	504.1	496.8
55°	487.2	487.2	484.8	482.3	475.1	472.7	470.3	465.5	458.2	448.6	441.3
57.5°	434.1	434.1	431.7	429.3	424.5	424.5	419.6	414.8	410.0	400.3	390.7
60°	385.9	388.3	385.9	383.5	378.6	378.6	376.2	369.0	366.6	354.5	347.3
62.5°	344.9	344.9	344.9	342.5	340.1	335.2	335.2	328.0	323.2	315.9	306.3
65°	306.3	306.3	306.3	303.9	299.1	296.6	294.2	289.4	284.6	277.3	267.7
67.5°	270.1	270.1	270.1	267.7	262.9	260.5	258.1	255.6	248.4	241.2	231.5
70°	236.3	236.3	233.9	231.5	229.1	226.7	224.3	219.5	214.6	205.0	197.8
72.5°	202.6	202.6	202.6	197.8	195.4	195.4	190.5	188.1	183.3	173.6	166.4
75°	171.2	168.8	168.8	166.4	164.0	161.6	159.2	156.8	149.5	144.7	135.1
77.5°	139.9	139.9	137.5	135.1	135.1	132.6	130.2	125.4	123.0	115.8	108.5
80°	108.5	108.5	108.5	108.5	106.1	103.7	103.7	98.9	96.5	89.2	84.4
82.5°	82.0	79.6	79.6	79.6	77.2	74.8	74.8	72.4	69.9	65.1	60.3
85°	48.2	45.8	45.8	45.8	43.4	43.4	41.0	41.0	38.6	33.8	33.8
87.5°	14.5	14.5	16.9	16.9	14.5	14.5	14.5	14.5	14.5	12.1	12.1
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°	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4
2.5°	1741.3	1748.5	1738.9	1736.4	1746.1	1741.3	1738.9	1734.0	1736.4	1731.6	1724.4
5°	1738.9	1748.5	1736.4	1729.2	1741.3	1734.0	1729.2	1724.4	1724.4	1714.7	1709.9
7.5°	1731.6	1736.4	1724.4	1717.2	1724.4	1717.2	1712.3	1705.1	1702.7	1690.6	1683.4
10°	1712.3	1717.2	1702.7	1693.0	1700.3	1690.6	1683.4	1676.2	1671.3	1656.9	1647.2
12.5°	1685.8	1688.2	1671.3	1659.3	1664.1	1656.9	1644.8	1635.2	1630.3	1615.9	1603.8
15°	1649.6	1652.0	1632.7	1615.9	1620.7	1611.0	1596.6	1586.9	1579.7	1565.2	1548.3
17.5°	1606.2	1603.8	1582.1	1565.2	1567.6	1555.6	1541.1	1526.6	1517.0	1500.1	1488.0
20°	1558.0	1550.7	1526.6	1507.3	1509.7	1495.3	1478.4	1463.9	1451.9	1437.4	1420.5
22.5°	1497.7	1488.0	1466.3	1442.2	1444.6	1432.6	1408.5	1396.4	1384.3	1365.0	1350.6
25°	1432.6	1418.1	1396.4	1372.3	1372.3	1357.8	1338.5	1324.0	1312.0	1292.7	1275.8
27.5°	1355.4	1348.2	1319.2	1299.9	1297.5	1283.0	1266.2	1249.3	1234.8	1217.9	1201.0
30°	1271.0	1258.9	1237.2	1215.5	1210.7	1198.6	1181.7	1162.5	1152.8	1135.9	1121.5
32.5°	1181.7	1169.7	1145.6	1123.9	1121.5	1111.8	1097.3	1078.0	1068.4	1056.3	1046.7
35°	1080.5	1075.6	1051.5	1034.6	1034.6	1025.0	1010.5	993.6	986.4	974.3	962.3
37.5°	984.0	976.8	955.0	940.6	940.6	928.5	914.0	906.8	899.6	889.9	882.7
40°	882.7	877.9	861.0	846.5	848.9	839.3	829.6	820.0	815.2	810.3	803.1
42.5°	788.6	783.8	771.8	759.7	759.7	752.5	742.8	735.6	730.8	723.5	721.1
45°	704.2	697.0	687.3	675.3	675.3	668.1	663.2	658.4	656.0	651.2	643.9
47.5°	622.2	617.4	607.8	595.7	595.7	595.7	586.1	578.8	578.8	574.0	571.6
50°	552.3	545.1	537.8	528.2	528.2	523.3	516.1	508.9	508.9	506.5	501.6
52.5°	487.2	482.3	472.7	463.1	463.1	458.2	451.0	448.6	446.2	438.9	436.5
55°	431.7	426.9	419.6	407.6	405.2	402.8	395.5	390.7	388.3	381.1	381.1
57.5°	381.1	376.2	364.2	356.9	354.5	349.7	342.5	337.6	335.2	330.4	325.6
60°	337.6	330.4	320.8	311.1	308.7	303.9	296.6	291.8	289.4	279.8	274.9
62.5°	296.6	289.4	279.8	270.1	267.7	262.9	253.2	248.4	243.6	233.9	229.1
65°	258.1	250.8	241.2	231.5	226.7	224.3	214.6	207.4	202.6	195.4	185.7
67.5°	221.9	214.6	205.0	192.9	192.9	185.7	178.5	171.2	164.0	156.8	149.5
70°	188.1	180.9	171.2	161.6	159.2	154.4	147.1	137.5	132.6	123.0	115.8
72.5°	156.8	149.5	139.9	130.2	127.8	123.0	115.8	106.1	98.9	91.6	84.4
75°	127.8	120.6	110.9	103.7	101.3	96.5	89.2	79.6	72.4	67.5	60.3
77.5°	101.3	94.1	86.8	79.6	77.2	72.4	65.1	60.3	53.1	48.2	41.0
80°	77.2	72.4	65.1	60.3	57.9	53.1	48.2	41.0	36.2	31.4	28.9
82.5°	55.5	50.6	45.8	38.6	38.6	33.8	31.4	26.5	21.7	19.3	16.9
85°	31.4	26.5	24.1	21.7	19.3	19.3	16.9	14.5	12.1	9.6	9.6
87.5°	9.6	9.6	7.2	7.2	7.2	7.2	4.8	4.8	4.8	4.8	4.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4
2.5°	1724.4	1726.8	1722.0	1726.8	1722.0	1724.4	1719.6	1724.4	1719.6	1724.4	1714.7
5°	1707.5	1707.5	1700.3	1705.1	1700.3	1702.7	1693.0	1695.4	1690.6	1695.4	1685.8
7.5°	1678.6	1681.0	1668.9	1673.7	1666.5	1666.5	1659.3	1661.7	1654.4	1656.9	1649.6
10°	1644.8	1642.4	1630.3	1635.2	1625.5	1625.5	1618.3	1618.3	1608.6	1611.0	1601.4
12.5°	1596.6	1594.2	1579.7	1584.5	1574.9	1574.9	1567.6	1567.6	1558.0	1562.8	1553.2
15°	1541.1	1538.7	1524.2	1526.6	1517.0	1517.0	1507.3	1509.7	1502.5	1507.3	1497.7
17.5°	1478.4	1476.0	1461.5	1463.9	1451.9	1454.3	1447.0	1444.6	1439.8	1442.2	1435.0
20°	1413.3	1408.5	1394.0	1396.4	1391.6	1384.3	1379.5	1381.9	1377.1	1381.9	1374.7
22.5°	1345.7	1336.1	1324.0	1324.0	1319.2	1319.2	1312.0	1316.8	1307.2	1314.4	1309.6
25°	1268.6	1261.3	1251.7	1256.5	1246.9	1246.9	1239.6	1242.0	1237.2	1242.0	1237.2
27.5°	1193.8	1189.0	1174.5	1179.3	1172.1	1174.5	1167.3	1169.7	1167.3	1172.1	1167.3
30°	1114.2	1111.8	1102.2	1102.2	1099.8	1097.3	1094.9	1094.9	1092.5	1099.8	1094.9
32.5°	1039.5	1032.2	1022.6	1029.8	1017.8	1025.0	1020.2	1025.0	1020.2	1025.0	1022.6
35°	962.3	959.9	947.8	950.2	947.8	947.8	945.4	945.4	945.4	952.6	952.6
37.5°	880.3	877.9	870.6	873.0	868.2	865.8	865.8	870.6	870.6	875.5	875.5
40°	800.7	803.1	795.9	795.9	793.5	793.5	793.5	798.3	795.9	800.7	798.3
42.5°	721.1	721.1	713.9	716.3	713.9	716.3	716.3	721.1	721.1	723.5	721.1
45°	646.3	646.3	643.9	646.3	641.5	643.9	641.5	646.3	643.9	646.3	646.3
47.5°	571.6	571.6	571.6	569.2	569.2	569.2	569.2	569.2	566.8	571.6	569.2
50°	501.6	504.1	501.6	501.6	499.2	501.6	499.2	499.2	494.4	496.8	496.8
52.5°	438.9	438.9	434.1	434.1	434.1	431.7	431.7	431.7	429.3	429.3	424.5
55°	378.6	378.6	373.8	373.8	371.4	369.0	366.6	366.6	359.3	359.3	352.1
57.5°	323.2	320.8	313.5	313.5	308.7	306.3	303.9	301.5	296.6	291.8	289.4
60°	272.5	267.7	262.9	260.5	255.6	250.8	246.0	241.2	236.3	233.9	231.5
62.5°	224.3	217.1	212.2	209.8	205.0	197.8	192.9	188.1	183.3	180.9	176.1
65°	180.9	173.6	166.4	164.0	159.2	154.4	147.1	142.3	137.5	135.1	135.1
67.5°	142.3	135.1	125.4	125.4	120.6	115.8	110.9	106.1	103.7	106.1	106.1
70°	106.1	101.3	94.1	91.6	86.8	82.0	79.6	79.6	79.6	82.0	79.6
72.5°	79.6	72.4	67.5	65.1	62.7	60.3	60.3	60.3	57.9	60.3	60.3
75°	55.5	50.6	45.8	45.8	43.4	43.4	43.4	43.4	43.4	43.4	43.4
77.5°	38.6	33.8	31.4	31.4	31.4	28.9	28.9	28.9	28.9	28.9	28.9
80°	24.1	24.1	21.7	21.7	19.3	19.3	19.3	19.3	19.3	19.3	19.3
82.5°	14.5	14.5	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
85°	7.2	7.2	7.2	7.2	7.2	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8	4.8	4.8	4.8
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: P252501

CATALOG NUMBER: LD6B40D010 EU6B30509040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4	1736.4
2.5°	1714.7	1722.0	1712.3	1719.6	1717.2	1714.7	1709.9	1719.6
5°	1685.8	1688.2	1678.6	1688.2	1685.8	1681.0	1676.2	1685.8
7.5°	1644.8	1652.0	1640.0	1649.6	1647.2	1642.4	1637.6	1647.2
10°	1599.0	1606.2	1596.6	1603.8	1603.8	1599.0	1591.7	1601.4
12.5°	1548.3	1553.2	1543.5	1553.2	1550.7	1545.9	1543.5	1550.7
15°	1492.9	1500.1	1490.5	1497.7	1495.3	1492.9	1490.5	1497.7
17.5°	1432.6	1439.8	1432.6	1439.8	1439.8	1432.6	1430.2	1435.0
20°	1372.3	1377.1	1369.9	1377.1	1374.7	1374.7	1369.9	1377.1
22.5°	1304.7	1312.0	1307.2	1312.0	1309.6	1309.6	1307.2	1312.0
25°	1237.2	1244.5	1237.2	1244.5	1242.0	1242.0	1237.2	1249.3
27.5°	1169.7	1174.5	1167.3	1176.9	1174.5	1169.7	1172.1	1174.5
30°	1097.3	1102.2	1097.3	1104.6	1104.6	1104.6	1099.8	1104.6
32.5°	1025.0	1032.2	1025.0	1032.2	1029.8	1029.8	1027.4	1032.2
35°	952.6	955.0	950.2	957.5	957.5	959.9	955.0	962.3
37.5°	877.9	880.3	877.9	880.3	885.1	877.9	882.7	885.1
40°	800.7	805.5	803.1	805.5	805.5	807.9	805.5	807.9
42.5°	723.5	728.3	723.5	730.8	728.3	728.3	730.8	730.8
45°	643.9	651.2	646.3	651.2	653.6	651.2	651.2	656.0
47.5°	569.2	574.0	571.6	574.0	574.0	574.0	574.0	578.8
50°	494.4	496.8	496.8	499.2	499.2	501.6	496.8	499.2
52.5°	419.6	424.5	424.5	424.5	422.1	424.5	424.5	424.5
55°	352.1	354.5	349.7	354.5	354.5	352.1	352.1	356.9
57.5°	287.0	287.0	287.0	287.0	287.0	284.6	287.0	287.0
60°	226.7	229.1	226.7	226.7	226.7	226.7	224.3	229.1
62.5°	176.1	176.1	173.6	176.1	176.1	176.1	178.5	178.5
65°	137.5	139.9	137.5	139.9	139.9	139.9	139.9	142.3
67.5°	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5
70°	82.0	82.0	82.0	84.4	82.0	82.0	82.0	84.4
72.5°	60.3	60.3	60.3	60.3	60.3	60.3	62.7	62.7
75°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
77.5°	28.9	28.9	28.9	31.4	28.9	31.4	28.9	28.9
80°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
82.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4
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)