

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: P252502

Luminaire Tested: **LD6B40D010 EU6B30509050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252502
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 EU6B30509050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3091.0 lumens
Efficiency: N/A
Efficacy: 71.9 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

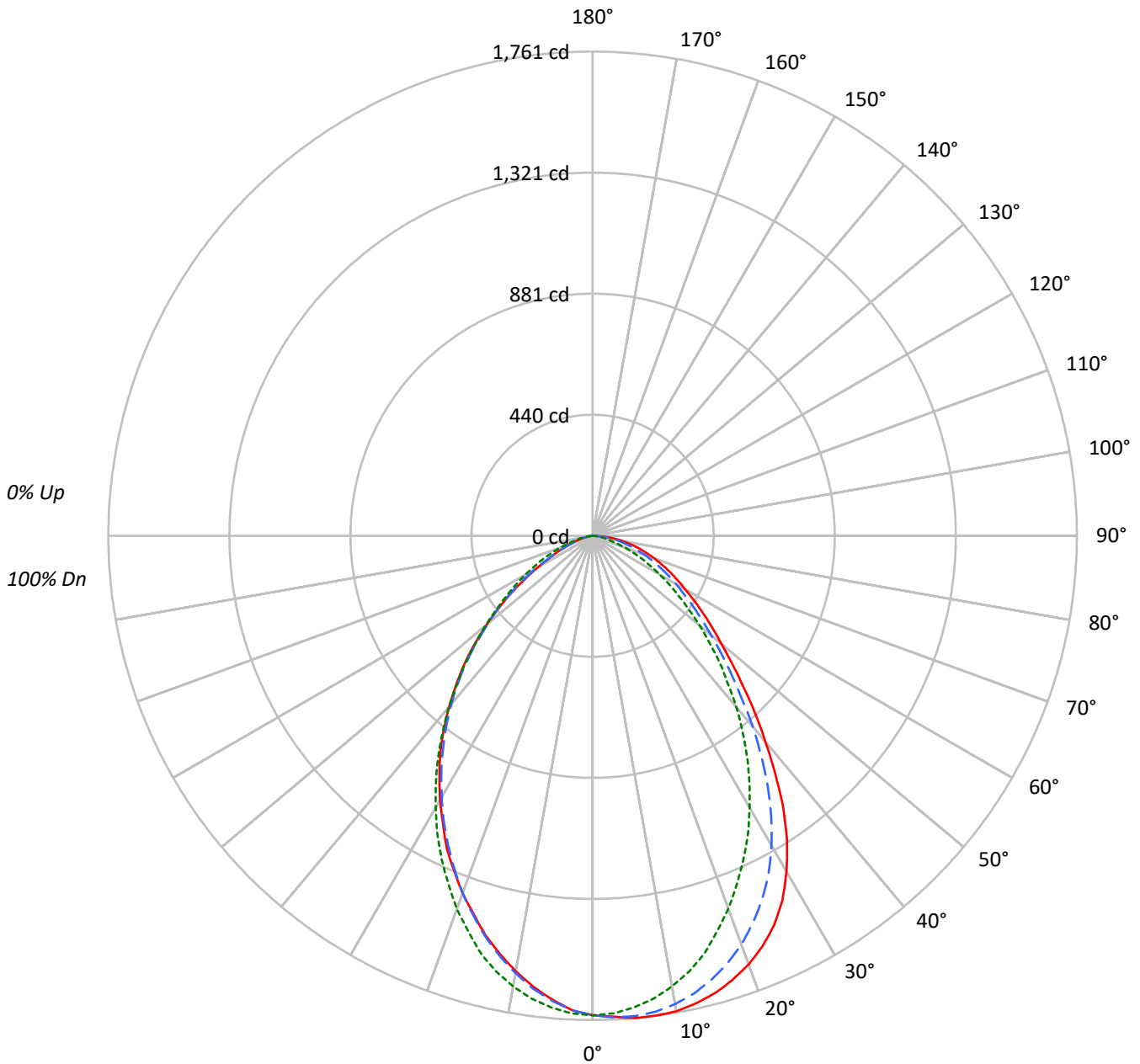
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	113767	113767	113767
5°	115308	112773	110868
10°	116323	110228	106539
15°	116307	106163	101583
20°	115180	100219	96011
25°	112448	93444	90312
30°	106190	85933	83560
35°	96250	77932	76960
40°	83122	69308	69095
45°	71283	60332	60784
50°	61943	51621	50880
55°	55643	43530	40766
60°	50561	36652	30024
65°	47485	30288	22060
70°	45265	23558	16176
75°	43356	17090	10990
80°	40952	11835	7289
85°	36230	7261	3593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	5.3
10°-20°	446.8	14.5
20°-30°	620.2	20.1
30°-40°	642.4	20.8
40°-50°	527.9	17.1
50°-60°	362.8	11.7
60°-70°	208.6	6.7
70°-80°	95.9	3.1
80°-90°	23.3	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°	1230.1	39.8
0°-40°	1872.5	60.6
0°-60°	2763.2	89.4
0°-90°	3091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1744	1744	1744	1744	1744	
5°	1761	1754	1722	1698	1693	168
15°	1722	1671	1572	1509	1504	485
25°	1562	1458	1298	1242	1255	715
35°	1208	1109	978	949	966	749
45°	773	714	654	647	659	602
55°	489	443	383	361	358	440
65°	308	269	196	138	143	306
75°	172	136	68	44	44	182
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°	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1751.0	1765.6	1755.9	1753.5	1758.3	1758.3	1758.3	1751.0	1755.9	1748.6	1753.5
5°	1760.7	1772.8	1763.2	1758.3	1763.2	1765.6	1758.3	1753.5	1760.7	1751.0	1753.5
7.5°	1760.7	1772.8	1763.2	1760.7	1763.2	1763.2	1760.7	1751.0	1755.9	1746.2	1746.2
10°	1755.9	1765.6	1755.9	1751.0	1753.5	1751.0	1751.0	1738.9	1741.4	1729.3	1729.3
12.5°	1741.4	1753.5	1741.4	1736.5	1736.5	1736.5	1729.3	1719.6	1722.0	1707.5	1705.0
15°	1722.0	1731.7	1719.6	1714.7	1714.7	1712.3	1707.5	1692.9	1692.9	1678.4	1671.1
17.5°	1692.9	1702.6	1692.9	1685.7	1683.2	1678.4	1673.5	1659.0	1654.2	1637.2	1630.0
20°	1659.0	1666.3	1656.6	1649.3	1644.5	1639.6	1630.0	1615.4	1610.6	1593.6	1581.5
22.5°	1615.4	1625.1	1610.6	1603.3	1598.5	1591.2	1581.5	1567.0	1559.7	1537.9	1523.4
25°	1562.1	1567.0	1554.9	1547.6	1537.9	1533.1	1525.8	1506.4	1499.2	1474.9	1458.0
27.5°	1494.3	1499.2	1484.6	1479.8	1467.7	1462.8	1453.2	1436.2	1426.5	1402.3	1385.3
30°	1409.6	1414.4	1404.7	1397.4	1387.8	1378.1	1370.8	1353.9	1339.3	1315.1	1300.6
32.5°	1315.1	1322.4	1312.7	1303.0	1286.0	1288.5	1276.4	1259.4	1247.3	1225.5	1208.5
35°	1208.5	1213.4	1201.3	1198.8	1189.2	1179.5	1167.4	1155.3	1148.0	1123.8	1109.2
37.5°	1089.9	1102.0	1089.9	1080.2	1075.3	1068.1	1060.8	1043.8	1039.0	1024.5	1005.1
40°	976.0	983.3	976.0	966.3	959.1	959.1	949.4	939.7	927.6	913.1	905.8
42.5°	874.3	869.5	867.0	862.2	852.5	850.1	847.7	835.6	828.3	813.8	801.7
45°	772.6	775.0	770.2	767.7	760.5	755.6	750.8	741.1	738.7	724.2	714.5
47.5°	687.8	685.4	680.6	680.6	675.7	670.9	666.0	658.8	656.3	644.2	634.5
50°	610.3	612.7	610.3	607.9	600.6	598.2	593.4	588.5	583.7	571.6	561.9
52.5°	547.4	544.9	542.5	542.5	535.2	532.8	528.0	523.1	518.3	506.2	498.9
55°	489.2	489.2	486.8	484.4	477.1	474.7	472.3	467.4	460.2	450.5	443.2
57.5°	435.9	435.9	433.5	431.1	426.3	426.3	421.4	416.6	411.7	402.0	392.4
60°	387.5	389.9	387.5	385.1	380.2	380.2	377.8	370.6	368.1	356.0	348.8
62.5°	346.3	346.3	346.3	343.9	341.5	336.6	336.6	329.4	324.5	317.3	307.6
65°	307.6	307.6	307.6	305.2	300.3	297.9	295.5	290.6	285.8	278.5	268.8
67.5°	271.3	271.3	271.3	268.8	264.0	261.6	259.1	256.7	249.5	242.2	232.5
70°	237.3	237.3	234.9	232.5	230.1	227.7	225.2	220.4	215.6	205.9	198.6
72.5°	203.4	203.4	203.4	198.6	196.2	196.2	191.3	188.9	184.1	174.4	167.1
75°	172.0	169.5	169.5	167.1	164.7	162.3	159.8	157.4	150.2	145.3	135.6
77.5°	140.5	140.5	138.0	135.6	135.6	133.2	130.8	125.9	123.5	116.3	109.0
80°	109.0	109.0	109.0	109.0	106.6	104.1	104.1	99.3	96.9	89.6	84.8
82.5°	82.3	79.9	79.9	79.9	77.5	75.1	75.1	72.7	70.2	65.4	60.5
85°	48.4	46.0	46.0	46.0	43.6	43.6	41.2	41.2	38.8	33.9	33.9
87.5°	14.5	14.5	17.0	17.0	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°	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1748.6	1755.9	1746.2	1743.8	1753.5	1748.6	1746.2	1741.4	1743.8	1738.9	1731.7
5°	1746.2	1755.9	1743.8	1736.5	1748.6	1741.4	1736.5	1731.7	1731.7	1722.0	1717.1
7.5°	1738.9	1743.8	1731.7	1724.4	1731.7	1724.4	1719.6	1712.3	1709.9	1697.8	1690.5
10°	1719.6	1724.4	1709.9	1700.2	1707.5	1697.8	1690.5	1683.2	1678.4	1663.9	1654.2
12.5°	1692.9	1695.3	1678.4	1666.3	1671.1	1663.9	1651.7	1642.1	1637.2	1622.7	1610.6
15°	1656.6	1659.0	1639.6	1622.7	1627.5	1617.8	1603.3	1593.6	1586.4	1571.8	1554.9
17.5°	1613.0	1610.6	1588.8	1571.8	1574.2	1562.1	1547.6	1533.1	1523.4	1506.4	1494.3
20°	1564.6	1557.3	1533.1	1513.7	1516.1	1501.6	1484.6	1470.1	1458.0	1443.5	1426.5
22.5°	1504.0	1494.3	1472.5	1448.3	1450.7	1438.6	1414.4	1402.3	1390.2	1370.8	1356.3
25°	1438.6	1424.1	1402.3	1378.1	1378.1	1363.5	1344.2	1329.6	1317.5	1298.1	1281.2
27.5°	1361.1	1353.9	1324.8	1305.4	1303.0	1288.5	1271.5	1254.6	1240.0	1223.1	1206.1
30°	1276.4	1264.2	1242.4	1220.6	1215.8	1203.7	1186.7	1167.4	1157.7	1140.7	1126.2
32.5°	1186.7	1174.6	1150.4	1128.6	1126.2	1116.5	1102.0	1082.6	1072.9	1060.8	1051.1
35°	1085.0	1080.2	1056.0	1039.0	1039.0	1029.3	1014.8	997.8	990.6	978.5	966.3
37.5°	988.1	980.9	959.1	944.5	944.5	932.4	917.9	910.6	903.4	893.7	886.4
40°	886.4	881.6	864.6	850.1	852.5	842.8	833.1	823.5	818.6	813.8	806.5
42.5°	792.0	787.1	775.0	762.9	762.9	755.6	746.0	738.7	733.8	726.6	724.2
45°	707.2	699.9	690.2	678.1	678.1	670.9	666.0	661.2	658.8	653.9	646.7
47.5°	624.9	620.0	610.3	598.2	598.2	598.2	588.5	581.3	581.3	576.4	574.0
50°	554.6	547.4	540.1	530.4	530.4	525.6	518.3	511.0	511.0	508.6	503.8
52.5°	489.2	484.4	474.7	465.0	465.0	460.2	452.9	450.5	448.1	440.8	438.4
55°	433.5	428.7	421.4	409.3	406.9	404.5	397.2	392.4	389.9	382.7	382.7
57.5°	382.7	377.8	365.7	358.4	356.0	351.2	343.9	339.1	336.6	331.8	327.0
60°	339.1	331.8	322.1	312.4	310.0	305.2	297.9	293.1	290.6	280.9	276.1
62.5°	297.9	290.6	280.9	271.3	268.8	264.0	254.3	249.5	244.6	234.9	230.1
65°	259.1	251.9	242.2	232.5	227.7	225.2	215.6	208.3	203.4	196.2	186.5
67.5°	222.8	215.6	205.9	193.8	193.8	186.5	179.2	172.0	164.7	157.4	150.2
70°	188.9	181.6	172.0	162.3	159.8	155.0	147.7	138.0	133.2	123.5	116.3
72.5°	157.4	150.2	140.5	130.8	128.4	123.5	116.3	106.6	99.3	92.0	84.8
75°	128.4	121.1	111.4	104.1	101.7	96.9	89.6	79.9	72.7	67.8	60.5
77.5°	101.7	94.5	87.2	79.9	77.5	72.7	65.4	60.5	53.3	48.4	41.2
80°	77.5	72.7	65.4	60.5	58.1	53.3	48.4	41.2	36.3	31.5	29.1
82.5°	55.7	50.9	46.0	38.8	38.8	33.9	31.5	26.6	21.8	19.4	17.0
85°	31.5	26.6	24.2	21.8	19.4	19.4	17.0	14.5	12.1	9.7	9.7
87.5°	9.7	9.7	7.3	7.3	7.3	7.3	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°	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1731.7	1734.1	1729.3	1734.1	1729.3	1731.7	1726.8	1731.7	1726.8	1731.7	1722.0
5°	1714.7	1714.7	1707.5	1712.3	1707.5	1709.9	1700.2	1702.6	1697.8	1702.6	1692.9
7.5°	1685.7	1688.1	1676.0	1680.8	1673.5	1673.5	1666.3	1668.7	1661.4	1663.9	1656.6
10°	1651.7	1649.3	1637.2	1642.1	1632.4	1632.4	1625.1	1625.1	1615.4	1617.8	1608.2
12.5°	1603.3	1600.9	1586.4	1591.2	1581.5	1581.5	1574.2	1574.2	1564.6	1569.4	1559.7
15°	1547.6	1545.2	1530.7	1533.1	1523.4	1523.4	1513.7	1516.1	1508.9	1513.7	1504.0
17.5°	1484.6	1482.2	1467.7	1470.1	1458.0	1460.4	1453.2	1450.7	1445.9	1448.3	1441.0
20°	1419.2	1414.4	1399.9	1402.3	1397.4	1390.2	1385.3	1387.8	1382.9	1387.8	1380.5
22.5°	1351.4	1341.7	1329.6	1329.6	1324.8	1324.8	1317.5	1322.4	1312.7	1319.9	1315.1
25°	1273.9	1266.7	1257.0	1261.8	1252.1	1252.1	1244.9	1247.3	1242.4	1247.3	1242.4
27.5°	1198.8	1194.0	1179.5	1184.3	1177.1	1179.5	1172.2	1174.6	1172.2	1177.1	1172.2
30°	1118.9	1116.5	1106.8	1106.8	1104.4	1102.0	1099.6	1099.6	1097.1	1104.4	1099.6
32.5°	1043.8	1036.6	1026.9	1034.2	1022.0	1029.3	1024.5	1029.3	1024.5	1029.3	1026.9
35°	966.3	963.9	951.8	954.2	951.8	951.8	949.4	949.4	949.4	956.7	956.7
37.5°	884.0	881.6	874.3	876.7	871.9	869.5	869.5	874.3	874.3	879.2	879.2
40°	804.1	806.5	799.2	799.2	796.8	796.8	796.8	801.7	799.2	804.1	801.7
42.5°	724.2	724.2	716.9	719.3	716.9	719.3	719.3	724.2	724.2	726.6	724.2
45°	649.1	649.1	646.7	649.1	644.2	646.7	644.2	649.1	646.7	649.1	649.1
47.5°	574.0	574.0	574.0	571.6	571.6	571.6	571.6	571.6	569.2	574.0	571.6
50°	503.8	506.2	503.8	503.8	501.3	503.8	501.3	501.3	496.5	498.9	498.9
52.5°	440.8	440.8	435.9	435.9	435.9	433.5	433.5	433.5	431.1	431.1	426.3
55°	380.2	380.2	375.4	375.4	373.0	370.6	368.1	368.1	360.9	360.9	353.6
57.5°	324.5	322.1	314.8	314.8	310.0	307.6	305.2	302.7	297.9	293.1	290.6
60°	273.7	268.8	264.0	261.6	256.7	251.9	247.0	242.2	237.3	234.9	232.5
62.5°	225.2	218.0	213.1	210.7	205.9	198.6	193.8	188.9	184.1	181.6	176.8
65°	181.6	174.4	167.1	164.7	159.8	155.0	147.7	142.9	138.0	135.6	135.6
67.5°	142.9	135.6	125.9	125.9	121.1	116.3	111.4	106.6	104.1	106.6	106.6
70°	106.6	101.7	94.5	92.0	87.2	82.3	79.9	79.9	79.9	82.3	79.9
72.5°	79.9	72.7	67.8	65.4	63.0	60.5	60.5	60.5	58.1	60.5	60.5
75°	55.7	50.9	46.0	46.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6
77.5°	38.8	33.9	31.5	31.5	31.5	29.1	29.1	29.1	29.1	29.1	29.1
80°	24.2	24.2	21.8	21.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4
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°	7.3	7.3	7.3	7.3	7.3	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	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: P252502

CATALOG NUMBER: LD6B40D010 EU6B30509050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1722.0	1729.3	1719.6	1726.8	1724.4	1722.0	1717.1	1726.8
5°	1692.9	1695.3	1685.7	1695.3	1692.9	1688.1	1683.2	1692.9
7.5°	1651.7	1659.0	1646.9	1656.6	1654.2	1649.3	1644.5	1654.2
10°	1605.7	1613.0	1603.3	1610.6	1610.6	1605.7	1598.5	1608.2
12.5°	1554.9	1559.7	1550.0	1559.7	1557.3	1552.5	1550.0	1557.3
15°	1499.2	1506.4	1496.7	1504.0	1501.6	1499.2	1496.7	1504.0
17.5°	1438.6	1445.9	1438.6	1445.9	1445.9	1438.6	1436.2	1441.0
20°	1378.1	1382.9	1375.6	1382.9	1380.5	1380.5	1375.6	1382.9
22.5°	1310.3	1317.5	1312.7	1317.5	1315.1	1315.1	1312.7	1317.5
25°	1242.4	1249.7	1242.4	1249.7	1247.3	1247.3	1242.4	1254.6
27.5°	1174.6	1179.5	1172.2	1181.9	1179.5	1174.6	1177.1	1179.5
30°	1102.0	1106.8	1102.0	1109.2	1109.2	1109.2	1104.4	1109.2
32.5°	1029.3	1036.6	1029.3	1036.6	1034.2	1034.2	1031.7	1036.6
35°	956.7	959.1	954.2	961.5	961.5	963.9	959.1	966.3
37.5°	881.6	884.0	881.6	884.0	888.8	881.6	886.4	888.8
40°	804.1	808.9	806.5	808.9	808.9	811.3	808.9	811.3
42.5°	726.6	731.4	726.6	733.8	731.4	731.4	733.8	733.8
45°	646.7	653.9	649.1	653.9	656.3	653.9	653.9	658.8
47.5°	571.6	576.4	574.0	576.4	576.4	576.4	576.4	581.3
50°	496.5	498.9	498.9	501.3	501.3	503.8	498.9	501.3
52.5°	421.4	426.3	426.3	426.3	423.8	426.3	426.3	426.3
55°	353.6	356.0	351.2	356.0	356.0	353.6	353.6	358.4
57.5°	288.2	288.2	288.2	288.2	288.2	285.8	288.2	288.2
60°	227.7	230.1	227.7	227.7	227.7	227.7	225.2	230.1
62.5°	176.8	176.8	174.4	176.8	176.8	176.8	179.2	179.2
65°	138.0	140.5	138.0	140.5	140.5	140.5	140.5	142.9
67.5°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
70°	82.3	82.3	82.3	84.8	82.3	82.3	82.3	84.8
72.5°	60.5	60.5	60.5	60.5	60.5	60.5	63.0	63.0
75°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
77.5°	29.1	29.1	29.1	31.5	29.1	31.5	29.1	29.1
80°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
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)