

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: P252499

Luminaire Tested: **LD6B40D010 EU6B30509030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252499
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 EU6B30509030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

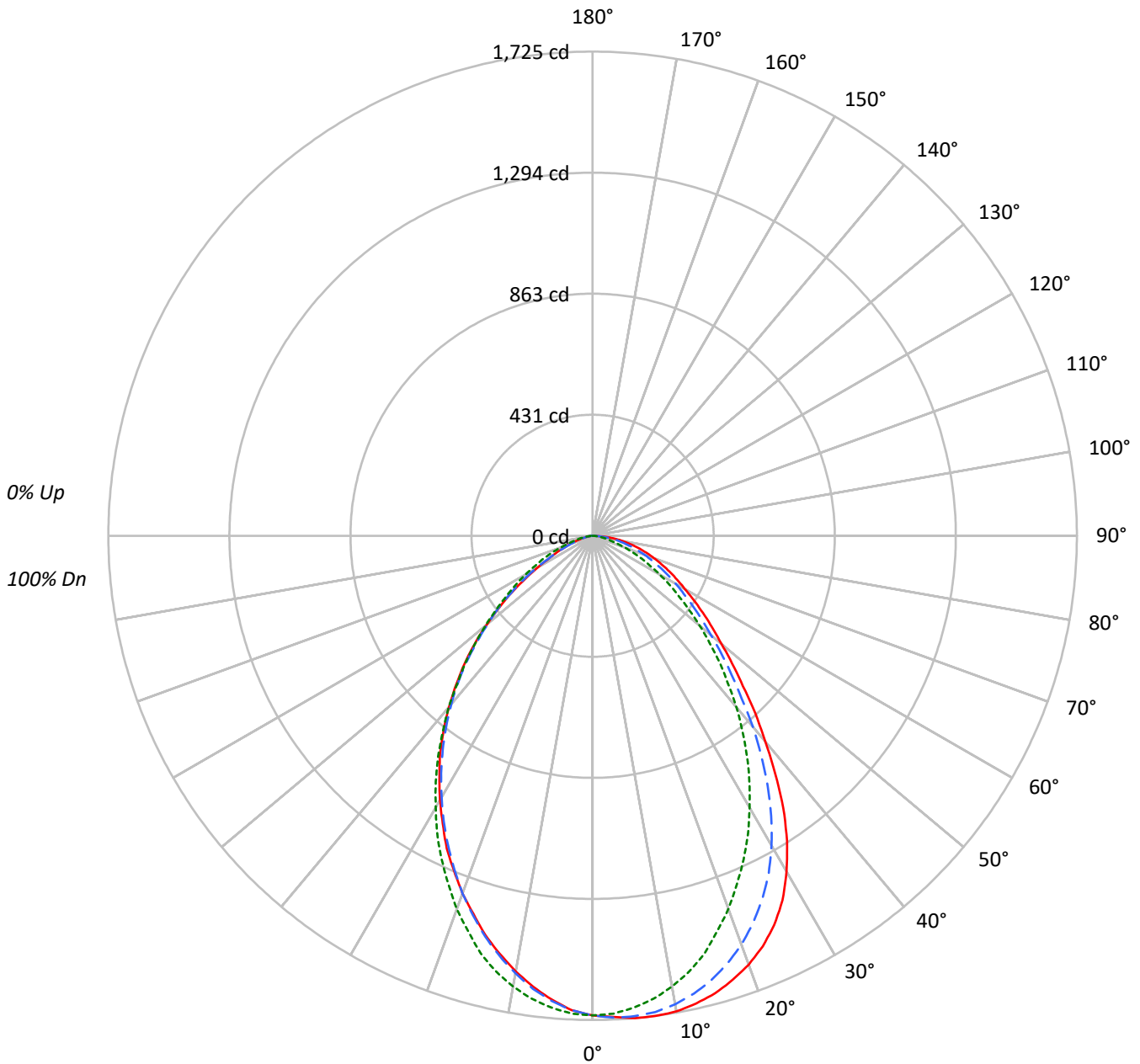
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	111483	111483	111483
5°	112996	110508	108648
10°	113991	108016	104399
15°	113970	104035	99543
20°	112868	98205	94088
25°	110195	91572	88498
30°	104058	84208	81887
35°	94323	76363	75423
40°	81461	67911	67715
45°	69853	59123	59557
50°	60705	50586	49865
55°	54529	42654	39958
60°	49544	35921	29424
65°	46528	29670	21612
70°	44369	23081	15851
75°	42474	16763	10763
80°	40125	11609	7138
85°	35556	7111	3518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	5.3
10°-20°	437.8	14.5
20°-30°	607.8	20.1
30°-40°	629.5	20.8
40°-50°	517.3	17.1
50°-60°	355.5	11.7
60°-70°	204.4	6.7
70°-80°	94.0	3.1
80°-90°	22.9	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°	1205.4	39.8
0°-40°	1834.9	60.6
0°-60°	2707.8	89.4
0°-90°	3029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1709	1709	1709	1709	1709	
5°	1725	1718	1687	1664	1659	164
15°	1687	1638	1540	1479	1474	475
25°	1531	1429	1272	1218	1229	700
35°	1184	1087	959	930	947	734
45°	757	700	641	634	646	590
55°	479	434	375	354	351	431
65°	301	263	192	135	140	300
75°	168	133	66	43	43	178
85°	48	33	10	5	5	53
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°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1715.9	1730.2	1720.7	1718.3	1723.0	1723.0	1723.0	1715.9	1720.7	1713.6	1718.3
5°	1725.4	1737.3	1727.8	1723.0	1727.8	1730.2	1723.0	1718.3	1725.4	1715.9	1718.3
7.5°	1725.4	1737.3	1727.8	1725.4	1727.8	1727.8	1725.4	1715.9	1720.7	1711.2	1711.2
10°	1720.7	1730.2	1720.7	1715.9	1718.3	1715.9	1715.9	1704.1	1706.4	1694.6	1694.6
12.5°	1706.4	1718.3	1706.4	1701.7	1701.7	1701.7	1694.6	1685.1	1687.4	1673.2	1670.8
15°	1687.4	1696.9	1685.1	1680.3	1680.3	1678.0	1673.2	1659.0	1659.0	1644.7	1637.6
17.5°	1659.0	1668.5	1659.0	1651.8	1649.5	1644.7	1640.0	1625.7	1621.0	1604.4	1597.3
20°	1625.7	1632.9	1623.4	1616.2	1611.5	1606.8	1597.3	1583.0	1578.3	1561.7	1549.8
22.5°	1583.0	1592.5	1578.3	1571.2	1566.4	1559.3	1549.8	1535.6	1528.4	1507.1	1492.8
25°	1530.8	1535.6	1523.7	1516.6	1507.1	1502.3	1495.2	1476.2	1469.1	1445.4	1428.8
27.5°	1464.4	1469.1	1454.9	1450.1	1438.2	1433.5	1424.0	1407.4	1397.9	1374.2	1357.6
30°	1381.3	1386.0	1376.5	1369.4	1359.9	1350.4	1343.3	1326.7	1312.5	1288.7	1274.5
32.5°	1288.7	1295.8	1286.4	1276.9	1260.2	1262.6	1250.7	1234.1	1222.3	1200.9	1184.3
35°	1184.3	1189.0	1177.2	1174.8	1165.3	1155.8	1143.9	1132.1	1125.0	1101.2	1087.0
37.5°	1068.0	1079.9	1068.0	1058.5	1053.8	1046.6	1039.5	1022.9	1018.2	1003.9	984.9
40°	956.5	963.6	956.5	947.0	939.8	939.8	930.3	920.9	909.0	894.7	887.6
42.5°	856.8	852.0	849.7	844.9	835.4	833.0	830.7	818.8	811.7	797.4	785.6
45°	757.1	759.5	754.7	752.3	745.2	740.5	735.7	726.2	723.9	709.6	700.1
47.5°	674.0	671.7	666.9	666.9	662.2	657.4	652.7	645.5	643.2	631.3	621.8
50°	598.1	600.5	598.1	595.7	588.6	586.2	581.5	576.7	572.0	560.1	550.6
52.5°	536.4	534.0	531.6	531.6	524.5	522.1	517.4	512.6	507.9	496.0	488.9
55°	479.4	479.4	477.0	474.7	467.5	465.2	462.8	458.1	450.9	441.4	434.3
57.5°	427.2	427.2	424.8	422.5	417.7	417.7	413.0	408.2	403.5	394.0	384.5
60°	379.7	382.1	379.7	377.4	372.6	372.6	370.2	363.1	360.7	348.9	341.8
62.5°	339.4	339.4	339.4	337.0	334.6	329.9	329.9	322.8	318.0	310.9	301.4
65°	301.4	301.4	301.4	299.0	294.3	291.9	289.5	284.8	280.1	272.9	263.4
67.5°	265.8	265.8	265.8	263.4	258.7	256.3	253.9	251.6	244.5	237.3	227.8
70°	232.6	232.6	230.2	227.8	225.5	223.1	220.7	216.0	211.2	201.7	194.6
72.5°	199.4	199.4	199.4	194.6	192.2	192.2	187.5	185.1	180.4	170.9	163.8
75°	168.5	166.1	166.1	163.8	161.4	159.0	156.6	154.3	147.1	142.4	132.9
77.5°	137.7	137.7	135.3	132.9	132.9	130.5	128.2	123.4	121.0	113.9	106.8
80°	106.8	106.8	106.8	106.8	104.4	102.1	102.1	97.3	94.9	87.8	83.1
82.5°	80.7	78.3	78.3	78.3	75.9	73.6	73.6	71.2	68.8	64.1	59.3
85°	47.5	45.1	45.1	45.1	42.7	42.7	40.3	40.3	38.0	33.2	33.2
87.5°	14.2	14.2	16.6	16.6	14.2	14.2	14.2	14.2	14.2	11.9	11.9
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°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1713.6	1720.7	1711.2	1708.8	1718.3	1713.6	1711.2	1706.4	1708.8	1704.1	1696.9
5°	1711.2	1720.7	1708.8	1701.7	1713.6	1706.4	1701.7	1696.9	1696.9	1687.4	1682.7
7.5°	1704.1	1708.8	1696.9	1689.8	1696.9	1689.8	1685.1	1678.0	1675.6	1663.7	1656.6
10°	1685.1	1689.8	1675.6	1666.1	1673.2	1663.7	1656.6	1649.5	1644.7	1630.5	1621.0
12.5°	1659.0	1661.3	1644.7	1632.9	1637.6	1630.5	1618.6	1609.1	1604.4	1590.1	1578.3
15°	1623.4	1625.7	1606.8	1590.1	1594.9	1585.4	1571.2	1561.7	1554.5	1540.3	1523.7
17.5°	1580.6	1578.3	1556.9	1540.3	1542.7	1530.8	1516.6	1502.3	1492.8	1476.2	1464.4
20°	1533.2	1526.1	1502.3	1483.3	1485.7	1471.5	1454.9	1440.6	1428.8	1414.5	1397.9
22.5°	1473.8	1464.4	1443.0	1419.3	1421.6	1409.8	1386.0	1374.2	1362.3	1343.3	1329.1
25°	1409.8	1395.5	1374.2	1350.4	1350.4	1336.2	1317.2	1303.0	1291.1	1272.1	1255.5
27.5°	1333.8	1326.7	1298.2	1279.2	1276.9	1262.6	1246.0	1229.4	1215.1	1198.5	1181.9
30°	1250.7	1238.9	1217.5	1196.2	1191.4	1179.5	1162.9	1143.9	1134.5	1117.8	1103.6
32.5°	1162.9	1151.1	1127.3	1106.0	1103.6	1094.1	1079.9	1060.9	1051.4	1039.5	1030.0
35°	1063.3	1058.5	1034.8	1018.2	1018.2	1008.7	994.4	977.8	970.7	958.8	947.0
37.5°	968.3	961.2	939.8	925.6	925.6	913.7	899.5	892.4	885.3	875.8	868.6
40°	868.6	863.9	847.3	833.0	835.4	825.9	816.4	806.9	802.2	797.4	790.3
42.5°	776.1	771.3	759.5	747.6	747.6	740.5	731.0	723.9	719.1	712.0	709.6
45°	693.0	685.9	676.4	664.5	664.5	657.4	652.7	647.9	645.5	640.8	633.7
47.5°	612.3	607.6	598.1	586.2	586.2	586.2	576.7	569.6	569.6	564.9	562.5
50°	543.5	536.4	529.3	519.8	519.8	515.0	507.9	500.8	500.8	498.4	493.7
52.5°	479.4	474.7	465.2	455.7	455.7	450.9	443.8	441.4	439.1	431.9	429.6
55°	424.8	420.1	413.0	401.1	398.7	396.3	389.2	384.5	382.1	375.0	375.0
57.5°	375.0	370.2	358.4	351.3	348.9	344.1	337.0	332.3	329.9	325.1	320.4
60°	332.3	325.1	315.7	306.2	303.8	299.0	291.9	287.2	284.8	275.3	270.6
62.5°	291.9	284.8	275.3	265.8	263.4	258.7	249.2	244.5	239.7	230.2	225.5
65°	253.9	246.8	237.3	227.8	223.1	220.7	211.2	204.1	199.4	192.2	182.7
67.5°	218.3	211.2	201.7	189.9	189.9	182.7	175.6	168.5	161.4	154.3	147.1
70°	185.1	178.0	168.5	159.0	156.6	151.9	144.8	135.3	130.5	121.0	113.9
72.5°	154.3	147.1	137.7	128.2	125.8	121.0	113.9	104.4	97.3	90.2	83.1
75°	125.8	118.7	109.2	102.1	99.7	94.9	87.8	78.3	71.2	66.5	59.3
77.5°	99.7	92.6	85.4	78.3	75.9	71.2	64.1	59.3	52.2	47.5	40.3
80°	75.9	71.2	64.1	59.3	57.0	52.2	47.5	40.3	35.6	30.9	28.5
82.5°	54.6	49.8	45.1	38.0	38.0	33.2	30.9	26.1	21.4	19.0	16.6
85°	30.9	26.1	23.7	21.4	19.0	19.0	16.6	14.2	11.9	9.5	9.5
87.5°	9.5	9.5	7.1	7.1	7.1	7.1	4.7	4.7	4.7	4.7	4.7
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°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1696.9	1699.3	1694.6	1699.3	1694.6	1696.9	1692.2	1696.9	1692.2	1696.9	1687.4
5°	1680.3	1680.3	1673.2	1678.0	1673.2	1675.6	1666.1	1668.5	1663.7	1668.5	1659.0
7.5°	1651.8	1654.2	1642.4	1647.1	1640.0	1640.0	1632.9	1635.2	1628.1	1630.5	1623.4
10°	1618.6	1616.2	1604.4	1609.1	1599.6	1599.6	1592.5	1592.5	1583.0	1585.4	1575.9
12.5°	1571.2	1568.8	1554.5	1559.3	1549.8	1549.8	1542.7	1542.7	1533.2	1537.9	1528.4
15°	1516.6	1514.2	1500.0	1502.3	1492.8	1492.8	1483.3	1485.7	1478.6	1483.3	1473.8
17.5°	1454.9	1452.5	1438.2	1440.6	1428.8	1431.1	1424.0	1421.6	1416.9	1419.3	1412.1
20°	1390.8	1386.0	1371.8	1374.2	1369.4	1362.3	1357.6	1359.9	1355.2	1359.9	1352.8
22.5°	1324.3	1314.8	1303.0	1303.0	1298.2	1298.2	1291.1	1295.8	1286.4	1293.5	1288.7
25°	1248.4	1241.3	1231.8	1236.5	1227.0	1227.0	1219.9	1222.3	1217.5	1222.3	1217.5
27.5°	1174.8	1170.1	1155.8	1160.6	1153.4	1155.8	1148.7	1151.1	1148.7	1153.4	1148.7
30°	1096.5	1094.1	1084.6	1084.6	1082.2	1079.9	1077.5	1077.5	1075.1	1082.2	1077.5
32.5°	1022.9	1015.8	1006.3	1013.4	1001.5	1008.7	1003.9	1008.7	1003.9	1008.7	1006.3
35°	947.0	944.6	932.7	935.1	932.7	932.7	930.3	930.3	930.3	937.5	937.5
37.5°	866.3	863.9	856.8	859.1	854.4	852.0	852.0	856.8	856.8	861.5	861.5
40°	787.9	790.3	783.2	783.2	780.8	780.8	780.8	785.6	783.2	787.9	785.6
42.5°	709.6	709.6	702.5	704.9	702.5	704.9	704.9	709.6	709.6	712.0	709.6
45°	636.1	636.1	633.7	636.1	631.3	633.7	631.3	636.1	633.7	636.1	636.1
47.5°	562.5	562.5	562.5	560.1	560.1	560.1	560.1	560.1	557.7	562.5	560.1
50°	493.7	496.0	493.7	493.7	491.3	493.7	491.3	491.3	486.5	488.9	488.9
52.5°	431.9	431.9	427.2	427.2	427.2	424.8	424.8	424.8	422.5	422.5	417.7
55°	372.6	372.6	367.9	367.9	365.5	363.1	360.7	360.7	353.6	353.6	346.5
57.5°	318.0	315.7	308.5	308.5	303.8	301.4	299.0	296.7	291.9	287.2	284.8
60°	268.2	263.4	258.7	256.3	251.6	246.8	242.1	237.3	232.6	230.2	227.8
62.5°	220.7	213.6	208.9	206.5	201.7	194.6	189.9	185.1	180.4	178.0	173.3
65°	178.0	170.9	163.8	161.4	156.6	151.9	144.8	140.0	135.3	132.9	132.9
67.5°	140.0	132.9	123.4	123.4	118.7	113.9	109.2	104.4	102.1	104.4	104.4
70°	104.4	99.7	92.6	90.2	85.4	80.7	78.3	78.3	78.3	80.7	78.3
72.5°	78.3	71.2	66.5	64.1	61.7	59.3	59.3	59.3	57.0	59.3	59.3
75°	54.6	49.8	45.1	45.1	42.7	42.7	42.7	42.7	42.7	42.7	42.7
77.5°	38.0	33.2	30.9	30.9	30.9	28.5	28.5	28.5	28.5	28.5	28.5
80°	23.7	23.7	21.4	21.4	19.0	19.0	19.0	19.0	19.0	19.0	19.0
82.5°	14.2	14.2	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
85°	7.1	7.1	7.1	7.1	7.1	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	2.4	2.4	2.4	2.4	2.4	4.7	4.7	4.7	4.7	4.7	4.7
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: P252499

CATALOG NUMBER: LD6B40D010 EU6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1687.4	1694.6	1685.1	1692.2	1689.8	1687.4	1682.7	1692.2
5°	1659.0	1661.3	1651.8	1661.3	1659.0	1654.2	1649.5	1659.0
7.5°	1618.6	1625.7	1613.9	1623.4	1621.0	1616.2	1611.5	1621.0
10°	1573.5	1580.6	1571.2	1578.3	1578.3	1573.5	1566.4	1575.9
12.5°	1523.7	1528.4	1518.9	1528.4	1526.1	1521.3	1518.9	1526.1
15°	1469.1	1476.2	1466.7	1473.8	1471.5	1469.1	1466.7	1473.8
17.5°	1409.8	1416.9	1409.8	1416.9	1416.9	1409.8	1407.4	1412.1
20°	1350.4	1355.2	1348.1	1355.2	1352.8	1352.8	1348.1	1355.2
22.5°	1284.0	1291.1	1286.4	1291.1	1288.7	1288.7	1286.4	1291.1
25°	1217.5	1224.6	1217.5	1224.6	1222.3	1222.3	1217.5	1229.4
27.5°	1151.1	1155.8	1148.7	1158.2	1155.8	1151.1	1153.4	1155.8
30°	1079.9	1084.6	1079.9	1087.0	1087.0	1087.0	1082.2	1087.0
32.5°	1008.7	1015.8	1008.7	1015.8	1013.4	1013.4	1011.0	1015.8
35°	937.5	939.8	935.1	942.2	942.2	944.6	939.8	947.0
37.5°	863.9	866.3	863.9	866.3	871.0	863.9	868.6	871.0
40°	787.9	792.7	790.3	792.7	792.7	795.1	792.7	795.1
42.5°	712.0	716.7	712.0	719.1	716.7	716.7	719.1	719.1
45°	633.7	640.8	636.1	640.8	643.2	640.8	640.8	645.5
47.5°	560.1	564.9	562.5	564.9	564.9	564.9	564.9	569.6
50°	486.5	488.9	488.9	491.3	491.3	493.7	488.9	491.3
52.5°	413.0	417.7	417.7	417.7	415.3	417.7	417.7	417.7
55°	346.5	348.9	344.1	348.9	348.9	346.5	346.5	351.3
57.5°	282.4	282.4	282.4	282.4	282.4	280.1	282.4	282.4
60°	223.1	225.5	223.1	223.1	223.1	223.1	220.7	225.5
62.5°	173.3	173.3	170.9	173.3	173.3	173.3	175.6	175.6
65°	135.3	137.7	135.3	137.7	137.7	137.7	137.7	140.0
67.5°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
70°	80.7	80.7	80.7	83.1	80.7	80.7	80.7	83.1
72.5°	59.3	59.3	59.3	59.3	59.3	59.3	61.7	61.7
75°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
77.5°	28.5	28.5	28.5	30.9	28.5	30.9	28.5	28.5
80°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
82.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.7	4.7	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)