

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: P252494

Luminaire Tested: **LD6B40D010 EU6B30508035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252494
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 EU6B30508035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3635.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

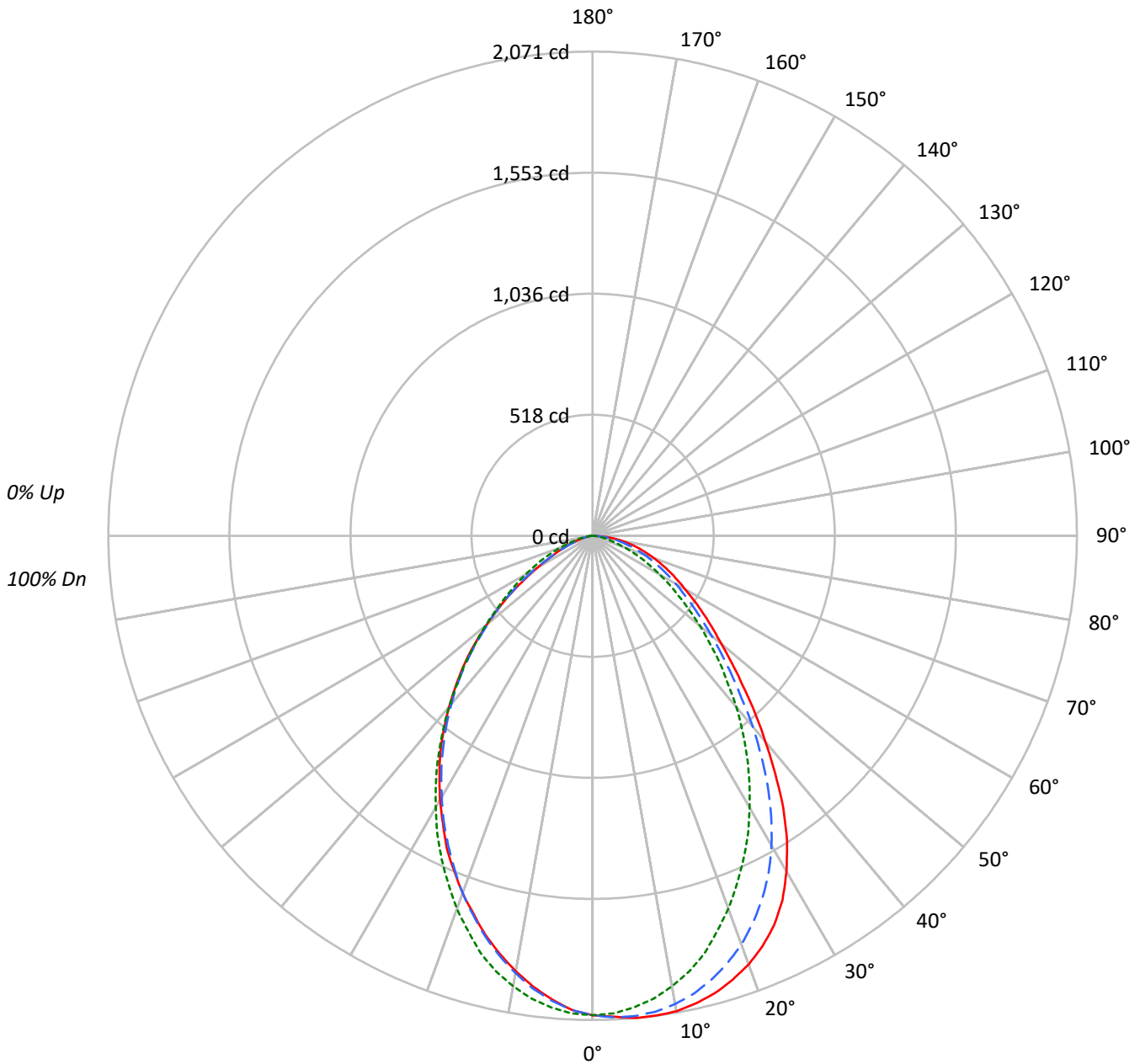
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	133789	133789	133789
5°	135603	132617	130384
10°	136794	129626	125286
15°	136773	124852	119462
20°	135453	117853	112910
25°	132244	109892	106200
30°	124873	101060	98272
35°	113190	91646	90508
40°	97753	81503	81256
45°	83831	70951	71477
50°	72844	60705	59842
55°	65437	51185	47943
60°	59460	43111	35308
65°	55837	35614	25935
70°	53239	27716	19018
75°	50969	20090	12931
80°	48165	13901	8566
85°	42667	8533	4267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	5.3
10°-20°	525.4	14.5
20°-30°	729.4	20.1
30°-40°	755.5	20.8
40°-50°	620.8	17.1
50°-60°	426.7	11.7
60°-70°	245.3	6.7
70°-80°	112.8	3.1
80°-90°	27.4	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°	1446.5	39.8
0°-40°	2202.0	60.6
0°-60°	3249.5	89.4
0°-90°	3635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2051	2051	2051	2051	2051	
5°	2071	2062	2025	1997	1991	197
15°	2025	1965	1848	1774	1769	570
25°	1837	1715	1527	1461	1475	841
35°	1421	1304	1151	1116	1136	881
45°	909	840	769	760	775	708
55°	575	521	450	424	422	518
65°	362	316	231	162	168	360
75°	202	160	80	51	51	214
85°	57	40	11	6	6	64
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°	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7
2.5°	2059.2	2076.3	2064.9	2062.1	2067.8	2067.8	2067.8	2059.2	2064.9	2056.4	2062.1
5°	2070.6	2084.9	2073.5	2067.8	2073.5	2076.3	2067.8	2062.1	2070.6	2059.2	2062.1
7.5°	2070.6	2084.9	2073.5	2070.6	2073.5	2073.5	2070.6	2059.2	2064.9	2053.5	2053.5
10°	2064.9	2076.3	2064.9	2059.2	2062.1	2059.2	2059.2	2045.0	2047.8	2033.6	2033.6
12.5°	2047.8	2062.1	2047.8	2042.1	2042.1	2042.1	2033.6	2022.2	2025.0	2008.0	2005.1
15°	2025.0	2036.4	2022.2	2016.5	2016.5	2013.7	2008.0	1990.9	1990.9	1973.8	1965.2
17.5°	1990.9	2002.3	1990.9	1982.3	1979.5	1973.8	1968.1	1951.0	1945.3	1925.4	1916.8
20°	1951.0	1959.5	1948.1	1939.6	1933.9	1928.2	1916.8	1899.7	1894.0	1874.1	1859.9
22.5°	1899.7	1911.1	1894.0	1885.5	1879.8	1871.2	1859.9	1842.8	1834.2	1808.6	1791.5
25°	1837.1	1842.8	1828.5	1820.0	1808.6	1802.9	1794.3	1771.6	1763.0	1734.5	1714.6
27.5°	1757.3	1763.0	1745.9	1740.2	1726.0	1720.3	1708.9	1689.0	1677.6	1649.1	1629.1
30°	1657.6	1663.3	1651.9	1643.4	1632.0	1620.6	1612.1	1592.1	1575.0	1546.6	1529.5
32.5°	1546.6	1555.1	1543.7	1532.3	1512.4	1515.2	1501.0	1481.0	1466.8	1441.2	1421.2
35°	1421.2	1426.9	1412.7	1409.8	1398.4	1387.1	1372.8	1358.6	1350.0	1321.5	1304.5
37.5°	1281.7	1295.9	1281.7	1270.3	1264.6	1256.0	1247.5	1227.6	1221.9	1204.8	1182.0
40°	1147.8	1156.4	1147.8	1136.4	1127.9	1127.9	1116.5	1105.1	1090.8	1073.8	1065.2
42.5°	1028.2	1022.5	1019.6	1013.9	1002.6	999.7	996.9	982.6	974.1	957.0	942.7
45°	908.6	911.4	905.7	902.9	894.3	888.6	882.9	871.5	868.7	851.6	840.2
47.5°	808.9	806.0	800.3	800.3	794.6	788.9	783.2	774.7	771.9	757.6	746.2
50°	717.7	720.6	717.7	714.9	706.3	703.5	697.8	692.1	686.4	672.2	660.8
52.5°	643.7	640.8	638.0	638.0	629.4	626.6	620.9	615.2	609.5	595.3	586.7
55°	575.3	575.3	572.5	569.6	561.1	558.2	555.4	549.7	541.2	529.8	521.2
57.5°	512.7	512.7	509.8	507.0	501.3	501.3	495.6	489.9	484.2	472.8	461.4
60°	455.7	458.6	455.7	452.9	447.2	447.2	444.3	435.8	432.9	418.7	410.1
62.5°	407.3	407.3	407.3	404.4	401.6	395.9	395.9	387.4	381.7	373.1	361.7
65°	361.7	361.7	361.7	358.9	353.2	350.3	347.5	341.8	336.1	327.5	316.1
67.5°	319.0	319.0	319.0	316.1	310.4	307.6	304.8	301.9	293.4	284.8	273.4
70°	279.1	279.1	276.3	273.4	270.6	267.7	264.9	259.2	253.5	242.1	233.5
72.5°	239.2	239.2	239.2	233.5	230.7	230.7	225.0	222.2	216.5	205.1	196.5
75°	202.2	199.4	199.4	196.5	193.7	190.8	188.0	185.1	176.6	170.9	159.5
77.5°	165.2	165.2	162.3	159.5	159.5	156.6	153.8	148.1	145.3	136.7	128.2
80°	128.2	128.2	128.2	128.2	125.3	122.5	122.5	116.8	113.9	105.4	99.7
82.5°	96.8	94.0	94.0	94.0	91.1	88.3	88.3	85.4	82.6	76.9	71.2
85°	57.0	54.1	54.1	54.1	51.3	51.3	48.4	48.4	45.6	39.9	39.9
87.5°	17.1	17.1	19.9	19.9	17.1	17.1	17.1	17.1	17.1	14.2	14.2
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°	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7
2.5°	2056.4	2064.9	2053.5	2050.7	2062.1	2056.4	2053.5	2047.8	2050.7	2045.0	2036.4
5°	2053.5	2064.9	2050.7	2042.1	2056.4	2047.8	2042.1	2036.4	2036.4	2025.0	2019.3
7.5°	2045.0	2050.7	2036.4	2027.9	2036.4	2027.9	2022.2	2013.7	2010.8	1996.6	1988.0
10°	2022.2	2027.9	2010.8	1999.4	2008.0	1996.6	1988.0	1979.5	1973.8	1956.7	1945.3
12.5°	1990.9	1993.7	1973.8	1959.5	1965.2	1956.7	1942.4	1931.1	1925.4	1908.3	1894.0
15°	1948.1	1951.0	1928.2	1908.3	1914.0	1902.6	1885.5	1874.1	1865.5	1848.5	1828.5
17.5°	1896.9	1894.0	1868.4	1848.5	1851.3	1837.1	1820.0	1802.9	1791.5	1771.6	1757.3
20°	1839.9	1831.4	1802.9	1780.1	1783.0	1765.9	1745.9	1728.8	1714.6	1697.5	1677.6
22.5°	1768.7	1757.3	1731.7	1703.2	1706.1	1691.8	1663.3	1649.1	1634.8	1612.1	1595.0
25°	1691.8	1674.7	1649.1	1620.6	1620.6	1603.5	1580.7	1563.6	1549.4	1526.6	1506.7
27.5°	1600.7	1592.1	1557.9	1535.2	1532.3	1515.2	1495.3	1475.3	1458.3	1438.3	1418.4
30°	1501.0	1486.7	1461.1	1435.5	1429.8	1415.5	1395.6	1372.8	1361.4	1341.5	1324.4
32.5°	1395.6	1381.4	1352.9	1327.2	1324.4	1313.0	1295.9	1273.1	1261.7	1247.5	1236.1
35°	1276.0	1270.3	1241.8	1221.9	1221.9	1210.5	1193.4	1173.4	1164.9	1150.7	1136.4
37.5°	1162.1	1153.5	1127.9	1110.8	1110.8	1096.5	1079.5	1070.9	1062.4	1051.0	1042.4
40°	1042.4	1036.7	1016.8	999.7	1002.6	991.2	979.8	968.4	962.7	957.0	948.4
42.5°	931.3	925.7	911.4	897.2	897.2	888.6	877.2	868.7	863.0	854.4	851.6
45°	831.7	823.1	811.7	797.5	797.5	788.9	783.2	777.5	774.7	769.0	760.5
47.5°	734.8	729.1	717.7	703.5	703.5	703.5	692.1	683.6	683.6	677.9	675.0
50°	652.2	643.7	635.1	623.7	623.7	618.1	609.5	601.0	601.0	598.1	592.4
52.5°	575.3	569.6	558.2	546.8	546.8	541.2	532.6	529.8	526.9	518.4	515.5
55°	509.8	504.1	495.6	481.3	478.5	475.6	467.1	461.4	458.6	450.0	450.0
57.5°	450.0	444.3	430.1	421.5	418.7	413.0	404.4	398.7	395.9	390.2	384.5
60°	398.7	390.2	378.8	367.4	364.6	358.9	350.3	344.6	341.8	330.4	324.7
62.5°	350.3	341.8	330.4	319.0	316.1	310.4	299.1	293.4	287.7	276.3	270.6
65°	304.8	296.2	284.8	273.4	267.7	264.9	253.5	244.9	239.2	230.7	219.3
67.5°	262.0	253.5	242.1	227.9	227.9	219.3	210.8	202.2	193.7	185.1	176.6
70°	222.2	213.6	202.2	190.8	188.0	182.3	173.7	162.3	156.6	145.3	136.7
72.5°	185.1	176.6	165.2	153.8	151.0	145.3	136.7	125.3	116.8	108.2	99.7
75°	151.0	142.4	131.0	122.5	119.6	113.9	105.4	94.0	85.4	79.7	71.2
77.5°	119.6	111.1	102.5	94.0	91.1	85.4	76.9	71.2	62.7	57.0	48.4
80°	91.1	85.4	76.9	71.2	68.4	62.7	57.0	48.4	42.7	37.0	34.2
82.5°	65.5	59.8	54.1	45.6	45.6	39.9	37.0	31.3	25.6	22.8	19.9
85°	37.0	31.3	28.5	25.6	22.8	22.8	19.9	17.1	14.2	11.4	11.4
87.5°	11.4	11.4	8.5	8.5	8.5	8.5	5.7	5.7	5.7	5.7	5.7
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°	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7
2.5°	2036.4	2039.3	2033.6	2039.3	2033.6	2036.4	2030.7	2036.4	2030.7	2036.4	2025.0
5°	2016.5	2016.5	2008.0	2013.7	2008.0	2010.8	1999.4	2002.3	1996.6	2002.3	1990.9
7.5°	1982.3	1985.2	1970.9	1976.6	1968.1	1968.1	1959.5	1962.4	1953.8	1956.7	1948.1
10°	1942.4	1939.6	1925.4	1931.1	1919.7	1919.7	1911.1	1911.1	1899.7	1902.6	1891.2
12.5°	1885.5	1882.6	1865.5	1871.2	1859.9	1859.9	1851.3	1851.3	1839.9	1845.6	1834.2
15°	1820.0	1817.1	1800.0	1802.9	1791.5	1791.5	1780.1	1783.0	1774.4	1780.1	1768.7
17.5°	1745.9	1743.1	1726.0	1728.8	1714.6	1717.4	1708.9	1706.1	1700.4	1703.2	1694.7
20°	1669.0	1663.3	1646.2	1649.1	1643.4	1634.8	1629.1	1632.0	1626.3	1632.0	1623.5
22.5°	1589.3	1577.9	1563.6	1563.6	1557.9	1557.9	1549.4	1555.1	1543.7	1552.2	1546.6
25°	1498.1	1489.6	1478.2	1483.9	1472.5	1472.5	1464.0	1466.8	1461.1	1466.8	1461.1
27.5°	1409.8	1404.1	1387.1	1392.8	1384.2	1387.1	1378.5	1381.4	1378.5	1384.2	1378.5
30°	1315.9	1313.0	1301.6	1301.6	1298.8	1295.9	1293.1	1293.1	1290.2	1298.8	1293.1
32.5°	1227.6	1219.0	1207.6	1216.2	1201.9	1210.5	1204.8	1210.5	1204.8	1210.5	1207.6
35°	1136.4	1133.6	1119.3	1122.2	1119.3	1119.3	1116.5	1116.5	1116.5	1125.0	1125.0
37.5°	1039.6	1036.7	1028.2	1031.0	1025.3	1022.5	1022.5	1028.2	1028.2	1033.9	1033.9
40°	945.6	948.4	939.9	939.9	937.0	937.0	937.0	942.7	939.9	945.6	942.7
42.5°	851.6	851.6	843.1	845.9	843.1	845.9	845.9	851.6	851.6	854.4	851.6
45°	763.3	763.3	760.5	763.3	757.6	760.5	757.6	763.3	760.5	763.3	763.3
47.5°	675.0	675.0	675.0	672.2	672.2	672.2	672.2	672.2	669.3	675.0	672.2
50°	592.4	595.3	592.4	592.4	589.6	592.4	589.6	589.6	583.9	586.7	586.7
52.5°	518.4	518.4	512.7	512.7	512.7	509.8	509.8	509.8	507.0	507.0	501.3
55°	447.2	447.2	441.5	441.5	438.6	435.8	432.9	432.9	424.4	424.4	415.8
57.5°	381.7	378.8	370.3	370.3	364.6	361.7	358.9	356.0	350.3	344.6	341.8
60°	321.8	316.1	310.4	307.6	301.9	296.2	290.5	284.8	279.1	276.3	273.4
62.5°	264.9	256.3	250.6	247.8	242.1	233.5	227.9	222.2	216.5	213.6	207.9
65°	213.6	205.1	196.5	193.7	188.0	182.3	173.7	168.0	162.3	159.5	159.5
67.5°	168.0	159.5	148.1	148.1	142.4	136.7	131.0	125.3	122.5	125.3	125.3
70°	125.3	119.6	111.1	108.2	102.5	96.8	94.0	94.0	94.0	96.8	94.0
72.5°	94.0	85.4	79.7	76.9	74.1	71.2	71.2	71.2	68.4	71.2	71.2
75°	65.5	59.8	54.1	54.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3
77.5°	45.6	39.9	37.0	37.0	37.0	34.2	34.2	34.2	34.2	34.2	34.2
80°	28.5	28.5	25.6	25.6	22.8	22.8	22.8	22.8	22.8	22.8	22.8
82.5°	17.1	17.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
85°	8.5	8.5	8.5	8.5	8.5	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	2.8	2.8	2.8	2.8	2.8	5.7	5.7	5.7	5.7	5.7	5.7
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: P252494

CATALOG NUMBER: LD6B40D010 EU6B30508035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7	2050.7
2.5°	2025.0	2033.6	2022.2	2030.7	2027.9	2025.0	2019.3	2030.7
5°	1990.9	1993.7	1982.3	1993.7	1990.9	1985.2	1979.5	1990.9
7.5°	1942.4	1951.0	1936.8	1948.1	1945.3	1939.6	1933.9	1945.3
10°	1888.3	1896.9	1885.5	1894.0	1894.0	1888.3	1879.8	1891.2
12.5°	1828.5	1834.2	1822.8	1834.2	1831.4	1825.7	1822.8	1831.4
15°	1763.0	1771.6	1760.2	1768.7	1765.9	1763.0	1760.2	1768.7
17.5°	1691.8	1700.4	1691.8	1700.4	1700.4	1691.8	1689.0	1694.7
20°	1620.6	1626.3	1617.8	1626.3	1623.5	1623.5	1617.8	1626.3
22.5°	1540.9	1549.4	1543.7	1549.4	1546.6	1546.6	1543.7	1549.4
25°	1461.1	1469.7	1461.1	1469.7	1466.8	1466.8	1461.1	1475.3
27.5°	1381.4	1387.1	1378.5	1389.9	1387.1	1381.4	1384.2	1387.1
30°	1295.9	1301.6	1295.9	1304.5	1304.5	1304.5	1298.8	1304.5
32.5°	1210.5	1219.0	1210.5	1219.0	1216.2	1216.2	1213.3	1219.0
35°	1125.0	1127.9	1122.2	1130.7	1130.7	1133.6	1127.9	1136.4
37.5°	1036.7	1039.6	1036.7	1039.6	1045.3	1036.7	1042.4	1045.3
40°	945.6	951.3	948.4	951.3	951.3	954.1	951.3	954.1
42.5°	854.4	860.1	854.4	863.0	860.1	860.1	863.0	863.0
45°	760.5	769.0	763.3	769.0	771.9	769.0	769.0	774.7
47.5°	672.2	677.9	675.0	677.9	677.9	677.9	677.9	683.6
50°	583.9	586.7	586.7	589.6	589.6	592.4	586.7	589.6
52.5°	495.6	501.3	501.3	501.3	498.4	501.3	501.3	501.3
55°	415.8	418.7	413.0	418.7	418.7	415.8	415.8	421.5
57.5°	338.9	338.9	338.9	338.9	338.9	336.1	338.9	338.9
60°	267.7	270.6	267.7	267.7	267.7	267.7	264.9	270.6
62.5°	207.9	207.9	205.1	207.9	207.9	207.9	210.8	210.8
65°	162.3	165.2	162.3	165.2	165.2	165.2	165.2	168.0
67.5°	128.2	128.2	128.2	128.2	128.2	128.2	128.2	128.2
70°	96.8	96.8	96.8	99.7	96.8	96.8	96.8	99.7
72.5°	71.2	71.2	71.2	71.2	71.2	71.2	74.1	74.1
75°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
77.5°	34.2	34.2	34.2	37.0	34.2	37.0	34.2	34.2
80°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
82.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	5.7	5.7	5.7	5.7	2.8	2.8	2.8	2.8
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)