

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: P252737

Luminaire Tested: **LD6B60D010TE EU6B60709727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60709727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

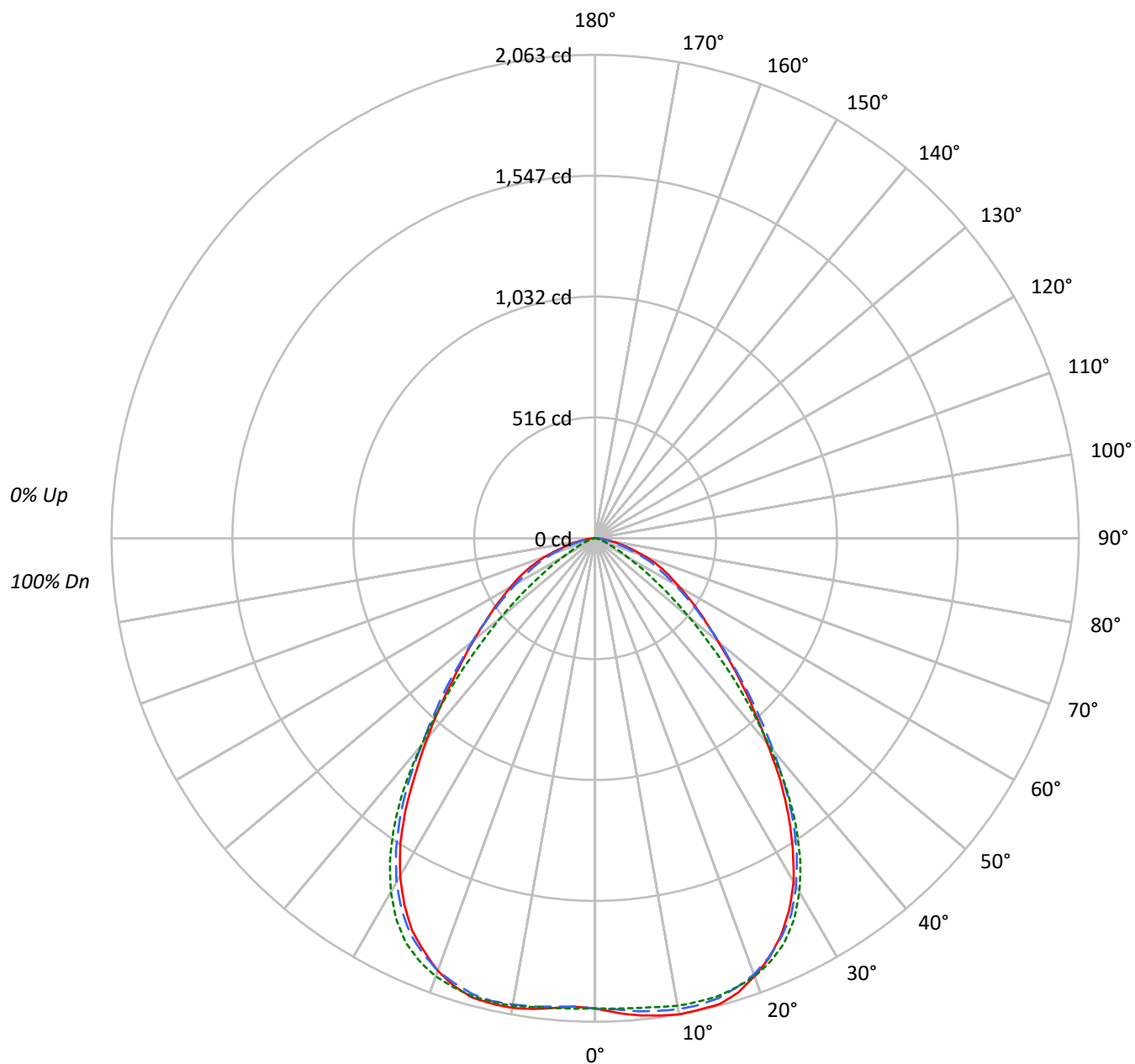
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	111	107	104	101	109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75	93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65	87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58	80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52	75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47	70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42	66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	130886	130886	130886
5°	133802	131759	131759
10°	136668	134223	134786
15°	138954	136651	137036
20°	138105	138105	136335
25°	134814	137268	132978
30°	127622	131253	125272
35°	114353	118877	112099
40°	97148	98358	94738
45°	82207	75140	79329
50°	69413	52991	68551
55°	61001	34214	60352
60°	54058	20368	54424
65°	49939	12273	49939
70°	43300	7039	42213
75°	34332	4285	32189
80°	25586	3193	24534
85°	23355	2096	21259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	4.9
10°-20°	571.6	14.4
20°-30°	859.7	21.6
30°-40°	903.9	22.7
40°-50°	675.3	17.0
50°-60°	420.4	10.6
60°-70°	239.1	6.0
70°-80°	98.5	2.5
80°-90°	20.4	0.5
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°	1624.5	40.8
0°-40°	2528.5	63.5
0°-60°	3624.1	91.0
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2006	2006	2006	2006	2006	
5°	2043	2026	2012	2006	2012	196
15°	2057	2032	2023	2015	2029	578
25°	1873	1878	1907	1864	1847	857
35°	1436	1473	1493	1450	1408	891
45°	891	911	814	894	860	690
55°	536	525	301	516	531	482
65°	324	289	80	289	324	319
75°	136	108	17	105	128	148
85°	31	20	3	17	28	35
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°	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2026.1	2023.2	2026.1	2020.4	2017.6	2017.6	2020.4	2014.7	2011.9	2014.7	2011.9
5°	2043.1	2037.4	2040.3	2037.4	2031.8	2031.8	2034.6	2026.1	2026.1	2028.9	2026.1
7.5°	2054.5	2054.5	2054.5	2048.8	2045.9	2043.1	2048.8	2040.3	2037.4	2037.4	2034.6
10°	2063.0	2060.1	2063.0	2057.3	2051.6	2048.8	2054.5	2048.8	2043.1	2048.8	2040.3
12.5°	2060.1	2060.1	2060.1	2057.3	2051.6	2048.8	2054.5	2045.9	2043.1	2045.9	2040.3
15°	2057.3	2048.8	2051.6	2048.8	2040.3	2040.3	2043.1	2034.6	2028.9	2037.4	2031.8
17.5°	2031.8	2026.1	2028.9	2023.2	2017.6	2014.7	2017.6	2014.7	2009.1	2014.7	2009.1
20°	1989.2	1989.2	1992.0	1986.4	1980.7	1977.8	1983.5	1977.8	1972.2	1980.7	1980.7
22.5°	1938.1	1938.1	1938.1	1935.3	1932.4	1932.4	1932.4	1929.6	1926.8	1932.4	1935.3
25°	1872.8	1870.0	1872.8	1875.7	1872.8	1870.0	1872.8	1872.8	1867.2	1878.5	1878.5
27.5°	1790.6	1790.6	1796.2	1793.4	1793.4	1790.6	1796.2	1796.2	1793.4	1801.9	1810.4
30°	1694.1	1688.4	1694.1	1694.1	1696.9	1696.9	1699.8	1699.8	1699.8	1708.3	1713.9
32.5°	1569.2	1572.1	1580.6	1577.7	1574.9	1583.4	1583.4	1589.1	1591.9	1597.6	1600.4
35°	1435.8	1438.7	1438.7	1441.5	1447.2	1441.5	1455.7	1452.9	1455.7	1467.1	1472.7
37.5°	1294.0	1285.5	1299.6	1294.0	1296.8	1296.8	1302.5	1305.3	1313.8	1328.0	1328.0
40°	1140.7	1143.6	1149.2	1152.1	1154.9	1154.9	1154.9	1163.4	1166.3	1183.3	1180.5
42.5°	1007.4	1007.4	1013.0	1015.9	1015.9	1015.9	1015.9	1024.4	1030.1	1035.7	1041.4
45°	891.0	882.5	888.2	888.2	893.9	891.0	896.7	902.4	905.2	913.7	910.9
47.5°	780.4	777.5	780.4	783.2	780.4	783.2	786.0	788.9	791.7	791.7	791.7
50°	683.9	683.9	686.7	689.5	689.5	689.5	689.5	692.4	692.4	698.1	692.4
52.5°	604.4	607.3	607.3	604.4	607.3	607.3	610.1	610.1	607.3	607.3	598.7
55°	536.3	533.5	536.3	533.5	536.3	536.3	533.5	533.5	530.6	527.8	525.0
57.5°	471.0	471.0	471.0	471.0	468.2	471.0	468.2	465.4	465.4	459.7	451.2
60°	414.3	414.3	414.3	414.3	414.3	411.5	414.3	411.5	405.8	400.1	388.8
62.5°	366.1	363.2	366.1	363.2	363.2	360.4	360.4	357.5	351.9	346.2	334.8
65°	323.5	326.3	323.5	323.5	320.7	317.8	317.8	315.0	306.5	300.8	289.4
67.5°	278.1	275.3	275.3	275.3	272.4	272.4	272.4	266.7	261.1	252.6	241.2
70°	227.0	227.0	227.0	224.2	224.2	221.3	221.3	218.5	212.8	207.1	193.0
72.5°	178.8	178.8	178.8	173.1	175.9	173.1	173.1	167.4	164.6	156.1	147.6
75°	136.2	136.2	133.4	133.4	130.5	127.7	127.7	124.9	122.0	116.3	107.8
77.5°	99.3	99.3	99.3	96.5	93.6	90.8	90.8	88.0	85.1	82.3	76.6
80°	68.1	68.1	68.1	68.1	65.3	62.4	62.4	59.6	59.6	56.8	51.1
82.5°	45.4	45.4	45.4	45.4	42.6	42.6	42.6	39.7	36.9	36.9	31.2
85°	31.2	31.2	28.4	28.4	28.4	28.4	25.5	25.5	22.7	19.9	19.9
87.5°	17.0	17.0	17.0	17.0	14.2	14.2	14.2	14.2	11.4	11.4	8.5
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°	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2020.4	2020.4	2017.6	2009.1	2011.9	2009.1	2011.9	2009.1	2000.5	2009.1	2000.5
5°	2031.8	2034.6	2028.9	2017.6	2020.4	2017.6	2017.6	2014.7	2006.2	2011.9	2006.2
7.5°	2043.1	2040.3	2037.4	2026.1	2028.9	2026.1	2026.1	2020.4	2011.9	2017.6	2009.1
10°	2048.8	2048.8	2043.1	2031.8	2031.8	2028.9	2031.8	2028.9	2017.6	2026.1	2020.4
12.5°	2048.8	2045.9	2045.9	2031.8	2034.6	2031.8	2034.6	2028.9	2020.4	2026.1	2023.2
15°	2040.3	2040.3	2037.4	2023.2	2026.1	2026.1	2028.9	2023.2	2014.7	2023.2	2017.6
17.5°	2023.2	2023.2	2020.4	2009.1	2014.7	2014.7	2017.6	2011.9	2003.4	2009.1	2009.1
20°	1989.2	1992.0	1992.0	1983.5	1989.2	1989.2	1992.0	1989.2	1986.4	1989.2	1983.5
22.5°	1949.5	1955.1	1955.1	1946.6	1952.3	1952.3	1960.8	1958.0	1952.3	1955.1	1952.3
25°	1889.9	1895.5	1901.2	1895.5	1901.2	1901.2	1909.7	1906.9	1901.2	1906.9	1898.4
27.5°	1821.8	1824.6	1830.3	1824.6	1833.1	1830.3	1838.8	1836.0	1827.4	1836.0	1833.1
30°	1725.3	1736.6	1745.2	1736.6	1745.2	1745.2	1750.8	1748.0	1745.2	1742.3	1742.3
32.5°	1617.5	1628.8	1628.8	1626.0	1631.6	1631.6	1634.5	1628.8	1626.0	1628.8	1631.6
35°	1484.1	1489.8	1495.4	1492.6	1495.4	1498.3	1495.4	1498.3	1489.8	1492.6	1492.6
37.5°	1339.4	1345.0	1345.0	1336.5	1342.2	1342.2	1336.5	1336.5	1330.9	1336.5	1325.2
40°	1186.1	1180.5	1183.3	1177.6	1171.9	1171.9	1169.1	1157.8	1152.1	1154.9	1157.8
42.5°	1035.7	1035.7	1027.2	1013.0	998.9	998.9	990.3	984.7	973.3	979.0	976.2
45°	908.0	893.9	882.5	859.8	851.3	845.6	831.4	817.2	811.6	814.4	811.6
47.5°	786.0	774.7	746.3	715.1	706.6	698.1	681.0	664.0	658.3	652.7	652.7
50°	683.9	664.0	632.8	598.7	584.6	570.4	547.7	530.6	519.3	522.1	522.1
52.5°	590.2	567.5	530.6	488.1	471.0	454.0	434.2	414.3	405.8	402.9	402.9
55°	507.9	482.4	445.5	397.3	383.1	363.2	337.7	315.0	303.6	300.8	306.5
57.5°	434.2	411.5	368.9	320.7	303.6	283.8	258.2	238.4	224.2	221.3	224.2
60°	374.6	343.4	306.5	261.1	238.4	221.3	193.0	175.9	161.7	156.1	158.9
62.5°	315.0	286.6	249.7	204.3	187.3	170.3	144.7	124.9	113.5	110.7	113.5
65°	269.6	241.2	207.1	167.4	150.4	133.4	110.7	90.8	82.3	79.5	82.3
67.5°	224.2	198.6	170.3	133.4	119.2	105.0	82.3	68.1	56.8	53.9	56.8
70°	181.6	158.9	130.5	105.0	90.8	79.5	62.4	48.2	39.7	36.9	39.7
72.5°	136.2	119.2	99.3	76.6	68.1	59.6	45.4	34.1	28.4	25.5	28.4
75°	99.3	85.1	70.9	53.9	48.2	42.6	31.2	22.7	19.9	17.0	19.9
77.5°	68.1	59.6	48.2	36.9	31.2	28.4	19.9	17.0	14.2	11.4	11.4
80°	45.4	39.7	31.2	25.5	22.7	19.9	14.2	11.4	8.5	8.5	8.5
82.5°	28.4	22.7	19.9	14.2	11.4	11.4	8.5	5.7	5.7	5.7	5.7
85°	17.0	14.2	11.4	8.5	5.7	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	8.5	5.7	5.7	2.8	2.8	2.8	2.8	2.8	0.0	0.0	2.8
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°	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2006.2	2000.5	2000.5	2003.4	2006.2	2009.1	2003.4	2000.5	2000.5	2009.1	2003.4
5°	2006.2	2003.4	2003.4	2003.4	2009.1	2011.9	2006.2	2003.4	2006.2	2014.7	2011.9
7.5°	2014.7	2009.1	2011.9	2011.9	2014.7	2020.4	2014.7	2011.9	2014.7	2023.2	2017.6
10°	2020.4	2014.7	2017.6	2014.7	2023.2	2026.1	2020.4	2017.6	2020.4	2031.8	2028.9
12.5°	2023.2	2020.4	2020.4	2017.6	2026.1	2028.9	2023.2	2020.4	2023.2	2031.8	2028.9
15°	2017.6	2014.7	2014.7	2014.7	2020.4	2026.1	2017.6	2014.7	2014.7	2023.2	2020.4
17.5°	2006.2	2000.5	2000.5	2000.5	2003.4	2006.2	1997.7	1994.9	1992.0	2000.5	1997.7
20°	1986.4	1980.7	1975.0	1975.0	1977.8	1977.8	1972.2	1963.7	1963.7	1966.5	1960.8
22.5°	1949.5	1946.6	1941.0	1938.1	1943.8	1941.0	1929.6	1921.1	1918.2	1921.1	1915.4
25°	1898.4	1892.7	1889.9	1887.0	1889.9	1887.0	1875.7	1864.3	1864.3	1864.3	1855.8
27.5°	1827.4	1821.8	1818.9	1818.9	1821.8	1816.1	1804.7	1793.4	1787.7	1787.7	1779.2
30°	1736.6	1736.6	1733.8	1731.0	1728.1	1728.1	1711.1	1699.8	1694.1	1696.9	1691.2
32.5°	1626.0	1623.1	1620.3	1611.8	1614.6	1611.8	1597.6	1589.1	1580.6	1574.9	1572.1
35°	1484.1	1484.1	1481.3	1481.3	1481.3	1478.4	1464.2	1455.7	1450.0	1447.2	1438.7
37.5°	1328.0	1325.2	1322.3	1322.3	1322.3	1322.3	1313.8	1305.3	1305.3	1302.5	1296.8
40°	1152.1	1154.9	1157.8	1154.9	1163.4	1171.9	1160.6	1154.9	1152.1	1160.6	1149.2
42.5°	981.8	979.0	993.2	996.0	996.0	1010.2	1013.0	1015.9	1013.0	1018.7	1018.7
45°	817.2	814.4	828.6	834.3	848.5	865.5	874.0	888.2	893.9	899.5	893.9
47.5°	661.2	672.5	683.9	698.1	709.4	737.8	754.8	769.0	774.7	783.2	783.2
50°	530.6	542.0	561.9	573.2	587.4	621.4	649.8	669.7	681.0	689.5	686.7
52.5°	408.6	428.5	454.0	465.4	485.2	525.0	556.2	578.9	593.1	601.6	604.4
55°	315.0	332.0	357.5	374.6	394.4	437.0	476.7	502.3	516.5	527.8	533.5
57.5°	232.7	252.6	280.9	295.1	317.8	366.1	400.1	431.3	448.3	462.5	465.4
60°	170.3	190.1	215.7	232.7	255.4	303.6	343.4	371.7	391.6	402.9	408.6
62.5°	122.0	141.9	167.4	184.4	204.3	246.9	286.6	315.0	334.8	349.0	357.5
65°	88.0	107.8	133.4	147.6	164.6	204.3	241.2	269.6	289.4	306.5	312.1
67.5°	65.3	79.5	102.2	116.3	133.4	164.6	195.8	221.3	241.2	255.4	261.1
70°	48.2	59.6	79.5	88.0	99.3	127.7	153.2	175.9	193.0	204.3	210.0
72.5°	34.1	42.6	56.8	65.3	73.8	96.5	116.3	133.4	144.7	156.1	161.7
75°	22.7	28.4	39.7	45.4	51.1	68.1	82.3	96.5	105.0	113.5	116.3
77.5°	14.2	19.9	28.4	31.2	36.9	45.4	56.8	65.3	70.9	76.6	82.3
80°	8.5	11.4	17.0	19.9	22.7	31.2	36.9	42.6	48.2	53.9	56.8
82.5°	5.7	8.5	11.4	11.4	14.2	17.0	22.7	28.4	31.2	34.1	36.9
85°	2.8	2.8	5.7	5.7	8.5	8.5	11.4	14.2	17.0	19.9	22.7
87.5°	2.8	2.8	2.8	2.8	5.7	5.7	8.5	8.5	8.5	11.4	11.4
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: P252737

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	1997.7	2006.2	1997.7	2003.4	2000.5	2000.5	1997.7	2000.5
5°	2006.2	2017.6	2006.2	2014.7	2009.1	2009.1	2009.1	2011.9
7.5°	2014.7	2026.1	2017.6	2026.1	2023.2	2020.4	2020.4	2026.1
10°	2023.2	2031.8	2026.1	2034.6	2031.8	2028.9	2028.9	2034.6
12.5°	2023.2	2034.6	2028.9	2037.4	2034.6	2031.8	2031.8	2034.6
15°	2014.7	2028.9	2020.4	2028.9	2026.1	2023.2	2023.2	2028.9
17.5°	1989.2	2000.5	1994.9	2000.5	2000.5	1997.7	2000.5	2003.4
20°	1955.1	1963.7	1958.0	1963.7	1963.7	1958.0	1960.8	1963.7
22.5°	1906.9	1915.4	1909.7	1915.4	1912.6	1909.7	1909.7	1906.9
25°	1847.3	1858.7	1850.1	1855.8	1850.1	1844.5	1844.5	1847.3
27.5°	1773.5	1782.0	1770.7	1776.4	1770.7	1765.0	1765.0	1762.2
30°	1677.0	1679.9	1671.4	1677.0	1671.4	1668.5	1662.9	1662.9
32.5°	1560.7	1563.5	1555.0	1555.0	1549.4	1549.4	1538.0	1546.5
35°	1424.5	1427.3	1424.5	1421.7	1413.1	1410.3	1407.5	1407.5
37.5°	1282.6	1282.6	1274.1	1271.3	1265.6	1259.9	1262.8	1254.2
40°	1137.9	1135.1	1126.5	1129.4	1126.5	1118.0	1115.2	1112.4
42.5°	1001.7	1001.7	993.2	996.0	990.3	987.5	979.0	981.8
45°	882.5	882.5	874.0	874.0	871.2	862.6	865.5	859.8
47.5°	774.7	774.7	771.8	771.8	763.3	760.5	760.5	760.5
50°	681.0	681.0	681.0	681.0	678.2	675.4	672.5	675.4
52.5°	601.6	607.3	604.4	604.4	601.6	598.7	595.9	595.9
55°	530.6	533.5	533.5	536.3	533.5	530.6	533.5	530.6
57.5°	468.2	473.9	473.9	473.9	473.9	473.9	471.0	468.2
60°	414.3	417.1	417.1	420.0	420.0	420.0	417.1	417.1
62.5°	360.4	366.1	368.9	368.9	371.7	368.9	368.9	368.9
65°	317.8	323.5	326.3	323.5	326.3	326.3	323.5	323.5
67.5°	266.7	272.4	272.4	272.4	272.4	275.3	272.4	272.4
70°	215.7	221.3	218.5	221.3	221.3	221.3	221.3	221.3
72.5°	164.6	167.4	170.3	170.3	173.1	170.3	170.3	170.3
75°	119.2	124.9	124.9	124.9	124.9	127.7	127.7	127.7
77.5°	85.1	88.0	88.0	90.8	90.8	90.8	90.8	93.6
80°	59.6	59.6	62.4	62.4	65.3	65.3	65.3	65.3
82.5°	39.7	42.6	42.6	42.6	42.6	42.6	42.6	42.6
85°	22.7	25.5	25.5	25.5	25.5	28.4	28.4	28.4
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	11.4	11.4
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)