

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: P252738

Luminaire Tested: **LD6B60D010TE EU6B60709730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252738
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 EU6B60709730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4162.0 lumens
Efficiency: N/A
Efficacy: 66.6 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

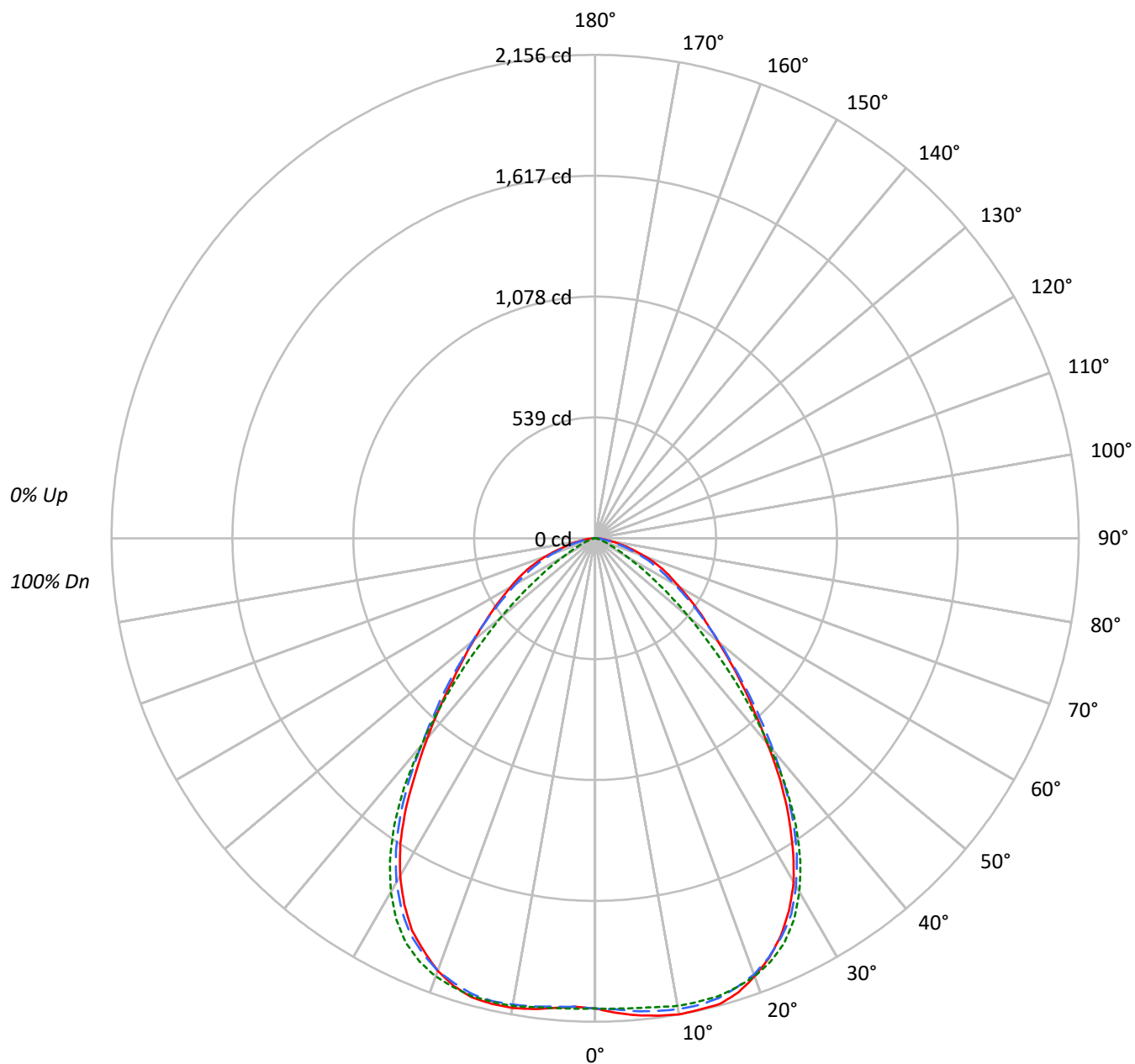
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	136803	136803	136803
5°	139854	137712	137712
10°	142842	140291	140881
15°	145236	142831	143230
20°	144347	144347	142493
25°	140911	143473	138989
30°	133393	137190	130929
35°	119530	124253	117164
40°	101543	102803	99014
45°	85926	78535	82918
50°	72550	55387	71646
55°	63765	35761	63082
60°	56498	21281	56890
65°	52193	12813	52193
70°	45265	7363	44121
75°	35895	4487	33651
80°	26750	3344	25623
85°	24403	2246	22232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	4.9
10°-20°	597.5	14.4
20°-30°	898.6	21.6
30°-40°	944.8	22.7
40°-50°	705.8	17.0
50°-60°	439.4	10.6
60°-70°	249.9	6.0
70°-80°	102.9	2.5
80°-90°	21.3	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°	1698.0	40.8
0°-40°	2642.8	63.5
0°-60°	3787.9	91.0
0°-90°	4162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2097	2097	2097	2097	2097	
5°	2136	2118	2103	2097	2103	204
15°	2150	2124	2115	2106	2121	605
25°	1958	1963	1993	1949	1931	896
35°	1501	1539	1560	1516	1471	931
45°	931	952	851	934	899	722
55°	561	549	314	540	555	504
65°	338	302	83	302	338	333
75°	142	113	18	110	134	155
85°	33	21	3	18	30	36
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°	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2117.7	2114.7	2117.7	2111.7	2108.8	2108.8	2111.7	2105.8	2102.8	2105.8	2102.8
5°	2135.5	2129.5	2132.5	2129.5	2123.6	2123.6	2126.6	2117.7	2117.7	2120.6	2117.7
7.5°	2147.3	2147.3	2147.3	2141.4	2138.4	2135.5	2141.4	2132.5	2129.5	2129.5	2126.6
10°	2156.2	2153.3	2156.2	2150.3	2144.4	2141.4	2147.3	2141.4	2135.5	2141.4	2132.5
12.5°	2153.3	2153.3	2153.3	2150.3	2144.4	2141.4	2147.3	2138.4	2135.5	2138.4	2132.5
15°	2150.3	2141.4	2144.4	2141.4	2132.5	2132.5	2135.5	2126.6	2120.6	2129.5	2123.6
17.5°	2123.6	2117.7	2120.6	2114.7	2108.8	2105.8	2108.8	2105.8	2099.9	2105.8	2099.9
20°	2079.1	2079.1	2082.1	2076.1	2070.2	2067.2	2073.2	2067.2	2061.3	2070.2	2070.2
22.5°	2025.7	2025.7	2025.7	2022.8	2019.8	2019.8	2019.8	2016.8	2013.9	2019.8	2022.8
25°	1957.5	1954.5	1957.5	1960.5	1957.5	1954.5	1957.5	1957.5	1951.6	1963.4	1963.4
27.5°	1871.5	1871.5	1877.4	1874.5	1874.5	1871.5	1877.4	1877.4	1874.5	1883.4	1892.3
30°	1770.7	1764.7	1770.7	1770.7	1773.6	1773.6	1776.6	1776.6	1776.6	1785.5	1791.4
32.5°	1640.2	1643.1	1652.0	1649.1	1646.1	1655.0	1655.0	1660.9	1663.9	1669.8	1672.8
35°	1500.8	1503.7	1503.7	1506.7	1512.6	1506.7	1521.5	1518.6	1521.5	1533.4	1539.3
37.5°	1352.5	1343.6	1358.4	1352.5	1355.4	1355.4	1361.4	1364.3	1373.2	1388.1	1388.1
40°	1192.3	1195.3	1201.2	1204.2	1207.1	1207.1	1207.1	1216.0	1219.0	1236.8	1233.8
42.5°	1052.9	1052.9	1058.8	1061.8	1061.8	1061.8	1061.8	1070.7	1076.6	1082.6	1088.5
45°	931.3	922.4	928.3	928.3	934.3	931.3	937.2	943.2	946.1	955.0	952.1
47.5°	815.6	812.7	815.6	818.6	815.6	818.6	821.6	824.5	827.5	827.5	827.5
50°	714.8	714.8	717.8	720.7	720.7	720.7	720.7	723.7	723.7	729.6	723.7
52.5°	631.7	634.7	634.7	631.7	634.7	634.7	637.7	637.7	634.7	634.7	625.8
55°	560.6	557.6	560.6	557.6	560.6	560.6	557.6	557.6	554.6	551.7	548.7
57.5°	492.3	492.3	492.3	492.3	489.4	492.3	489.4	486.4	486.4	480.5	471.6
60°	433.0	433.0	433.0	433.0	433.0	430.1	433.0	430.1	424.1	418.2	406.3
62.5°	382.6	379.6	382.6	379.6	379.6	376.7	376.7	373.7	367.8	361.8	350.0
65°	338.1	341.1	338.1	338.1	335.1	332.2	332.2	329.2	320.3	314.4	302.5
67.5°	290.7	287.7	287.7	287.7	284.7	284.7	284.7	278.8	272.9	264.0	252.1
70°	237.3	237.3	237.3	234.3	234.3	231.3	231.3	228.4	222.4	216.5	201.7
72.5°	186.9	186.9	186.9	180.9	183.9	180.9	180.9	175.0	172.0	163.1	154.2
75°	142.4	142.4	139.4	139.4	136.4	133.5	133.5	130.5	127.5	121.6	112.7
77.5°	103.8	103.8	103.8	100.8	97.9	94.9	94.9	91.9	89.0	86.0	80.1
80°	71.2	71.2	71.2	71.2	68.2	65.3	65.3	62.3	62.3	59.3	53.4
82.5°	47.5	47.5	47.5	47.5	44.5	44.5	44.5	41.5	38.6	38.6	32.6
85°	32.6	32.6	29.7	29.7	29.7	29.7	26.7	26.7	23.7	20.8	20.8
87.5°	17.8	17.8	17.8	17.8	14.8	14.8	14.8	14.8	11.9	11.9	8.9
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°	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2111.7	2111.7	2108.8	2099.9	2102.8	2099.9	2102.8	2099.9	2091.0	2099.9	2091.0
5°	2123.6	2126.6	2120.6	2108.8	2111.7	2108.8	2108.8	2105.8	2096.9	2102.8	2096.9
7.5°	2135.5	2132.5	2129.5	2117.7	2120.6	2117.7	2117.7	2111.7	2102.8	2108.8	2099.9
10°	2141.4	2141.4	2135.5	2123.6	2123.6	2120.6	2123.6	2120.6	2108.8	2117.7	2111.7
12.5°	2141.4	2138.4	2138.4	2123.6	2126.6	2123.6	2126.6	2120.6	2111.7	2117.7	2114.7
15°	2132.5	2132.5	2129.5	2114.7	2117.7	2117.7	2120.6	2114.7	2105.8	2114.7	2108.8
17.5°	2114.7	2114.7	2111.7	2099.9	2105.8	2105.8	2108.8	2102.8	2093.9	2099.9	2099.9
20°	2079.1	2082.1	2082.1	2073.2	2079.1	2079.1	2082.1	2079.1	2076.1	2079.1	2073.2
22.5°	2037.6	2043.5	2043.5	2034.6	2040.6	2040.6	2049.4	2046.5	2040.6	2043.5	2040.6
25°	1975.3	1981.2	1987.2	1981.2	1987.2	1987.2	1996.1	1993.1	1987.2	1993.1	1984.2
27.5°	1904.1	1907.1	1913.0	1907.1	1916.0	1913.0	1921.9	1918.9	1910.1	1918.9	1916.0
30°	1803.3	1815.1	1824.0	1815.1	1824.0	1824.0	1830.0	1827.0	1824.0	1821.1	1821.1
32.5°	1690.6	1702.4	1702.4	1699.5	1705.4	1705.4	1708.4	1702.4	1699.5	1702.4	1705.4
35°	1551.2	1557.1	1563.0	1560.1	1563.0	1566.0	1563.0	1566.0	1557.1	1560.1	1560.1
37.5°	1399.9	1405.8	1405.8	1396.9	1402.9	1402.9	1396.9	1396.9	1391.0	1396.9	1385.1
40°	1239.8	1233.8	1236.8	1230.9	1224.9	1224.9	1222.0	1210.1	1204.2	1207.1	1210.1
42.5°	1082.6	1082.6	1073.7	1058.8	1044.0	1044.0	1035.1	1029.2	1017.3	1023.2	1020.3
45°	949.1	934.3	922.4	898.7	889.8	883.8	869.0	854.2	848.3	851.2	848.3
47.5°	821.6	809.7	780.0	747.4	738.5	729.6	711.8	694.0	688.1	682.2	682.2
50°	714.8	694.0	661.4	625.8	611.0	596.1	572.4	554.6	542.8	545.7	545.7
52.5°	616.9	593.2	554.6	510.1	492.3	474.5	453.8	433.0	424.1	421.2	421.2
55°	530.9	504.2	465.6	415.2	400.4	379.6	352.9	329.2	317.4	314.4	320.3
57.5°	453.8	430.1	385.6	335.1	317.4	296.6	269.9	249.1	234.3	231.3	234.3
60°	391.5	358.9	320.3	272.9	249.1	231.3	201.7	183.9	169.1	163.1	166.1
62.5°	329.2	299.6	261.0	213.5	195.8	178.0	151.3	130.5	118.6	115.7	118.6
65°	281.8	252.1	216.5	175.0	157.2	139.4	115.7	94.9	86.0	83.0	86.0
67.5°	234.3	207.6	178.0	139.4	124.6	109.7	86.0	71.2	59.3	56.4	59.3
70°	189.8	166.1	136.4	109.7	94.9	83.0	65.3	50.4	41.5	38.6	41.5
72.5°	142.4	124.6	103.8	80.1	71.2	62.3	47.5	35.6	29.7	26.7	29.7
75°	103.8	89.0	74.1	56.4	50.4	44.5	32.6	23.7	20.8	17.8	20.8
77.5°	71.2	62.3	50.4	38.6	32.6	29.7	20.8	17.8	14.8	11.9	11.9
80°	47.5	41.5	32.6	26.7	23.7	20.8	14.8	11.9	8.9	8.9	8.9
82.5°	29.7	23.7	20.8	14.8	11.9	11.9	8.9	5.9	5.9	5.9	5.9
85°	17.8	14.8	11.9	8.9	5.9	5.9	3.0	3.0	3.0	3.0	3.0
87.5°	8.9	5.9	5.9	3.0	3.0	3.0	3.0	3.0	0.0	0.0	3.0
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°	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2096.9	2091.0	2091.0	2093.9	2096.9	2099.9	2093.9	2091.0	2091.0	2099.9	2093.9
5°	2096.9	2093.9	2093.9	2093.9	2099.9	2102.8	2096.9	2093.9	2096.9	2105.8	2102.8
7.5°	2105.8	2099.9	2102.8	2102.8	2105.8	2111.7	2105.8	2102.8	2105.8	2114.7	2108.8
10°	2111.7	2105.8	2108.8	2105.8	2114.7	2117.7	2111.7	2108.8	2111.7	2123.6	2120.6
12.5°	2114.7	2111.7	2111.7	2108.8	2117.7	2120.6	2114.7	2111.7	2114.7	2123.6	2120.6
15°	2108.8	2105.8	2105.8	2105.8	2111.7	2117.7	2108.8	2105.8	2105.8	2114.7	2111.7
17.5°	2096.9	2091.0	2091.0	2091.0	2093.9	2096.9	2088.0	2085.0	2082.1	2091.0	2088.0
20°	2076.1	2070.2	2064.3	2064.3	2067.2	2067.2	2061.3	2052.4	2052.4	2055.4	2049.4
22.5°	2037.6	2034.6	2028.7	2025.7	2031.7	2028.7	2016.8	2007.9	2005.0	2007.9	2002.0
25°	1984.2	1978.3	1975.3	1972.3	1975.3	1972.3	1960.5	1948.6	1948.6	1948.6	1939.7
27.5°	1910.1	1904.1	1901.2	1901.2	1904.1	1898.2	1886.3	1874.5	1868.5	1868.5	1859.6
30°	1815.1	1815.1	1812.2	1809.2	1806.2	1806.2	1788.4	1776.6	1770.7	1773.6	1767.7
32.5°	1699.5	1696.5	1693.5	1684.6	1687.6	1684.6	1669.8	1660.9	1652.0	1646.1	1643.1
35°	1551.2	1551.2	1548.2	1548.2	1548.2	1545.2	1530.4	1521.5	1515.6	1512.6	1503.7
37.5°	1388.1	1385.1	1382.1	1382.1	1382.1	1382.1	1373.2	1364.3	1364.3	1361.4	1355.4
40°	1204.2	1207.1	1210.1	1207.1	1216.0	1224.9	1213.1	1207.1	1204.2	1213.1	1201.2
42.5°	1026.2	1023.2	1038.1	1041.0	1041.0	1055.9	1058.8	1061.8	1058.8	1064.8	1064.8
45°	854.2	851.2	866.0	872.0	886.8	904.6	913.5	928.3	934.3	940.2	934.3
47.5°	691.1	702.9	714.8	729.6	741.5	771.1	788.9	803.8	809.7	818.6	818.6
50°	554.6	566.5	587.3	599.1	613.9	649.5	679.2	700.0	711.8	720.7	717.8
52.5°	427.1	447.9	474.5	486.4	507.2	548.7	581.3	605.0	619.9	628.8	631.7
55°	329.2	347.0	373.7	391.5	412.3	456.8	498.3	525.0	539.8	551.7	557.6
57.5°	243.2	264.0	293.6	308.5	332.2	382.6	418.2	450.8	468.6	483.4	486.4
60°	178.0	198.7	225.4	243.2	266.9	317.4	358.9	388.5	409.3	421.2	427.1
62.5°	127.5	148.3	175.0	192.8	213.5	258.0	299.6	329.2	350.0	364.8	373.7
65°	91.9	112.7	139.4	154.2	172.0	213.5	252.1	281.8	302.5	320.3	326.3
67.5°	68.2	83.0	106.8	121.6	139.4	172.0	204.6	231.3	252.1	266.9	272.9
70°	50.4	62.3	83.0	91.9	103.8	133.5	160.2	183.9	201.7	213.5	219.5
72.5°	35.6	44.5	59.3	68.2	77.1	100.8	121.6	139.4	151.3	163.1	169.1
75°	23.7	29.7	41.5	47.5	53.4	71.2	86.0	100.8	109.7	118.6	121.6
77.5°	14.8	20.8	29.7	32.6	38.6	47.5	59.3	68.2	74.1	80.1	86.0
80°	8.9	11.9	17.8	20.8	23.7	32.6	38.6	44.5	50.4	56.4	59.3
82.5°	5.9	8.9	11.9	11.9	14.8	17.8	23.7	29.7	32.6	35.6	38.6
85°	3.0	3.0	5.9	5.9	8.9	8.9	11.9	14.8	17.8	20.8	23.7
87.5°	3.0	3.0	3.0	3.0	5.9	5.9	8.9	8.9	8.9	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



TEST NUMBER: P252738

CATALOG NUMBER: LD6B60D010TE EU6B60709730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2088.0	2096.9	2088.0	2093.9	2091.0	2091.0	2088.0	2091.0
5°	2096.9	2108.8	2096.9	2105.8	2099.9	2099.9	2099.9	2102.8
7.5°	2105.8	2117.7	2108.8	2117.7	2114.7	2111.7	2111.7	2117.7
10°	2114.7	2123.6	2117.7	2126.6	2123.6	2120.6	2120.6	2126.6
12.5°	2114.7	2126.6	2120.6	2129.5	2126.6	2123.6	2123.6	2126.6
15°	2105.8	2120.6	2111.7	2120.6	2117.7	2114.7	2114.7	2120.6
17.5°	2079.1	2091.0	2085.0	2091.0	2091.0	2088.0	2091.0	2093.9
20°	2043.5	2052.4	2046.5	2052.4	2052.4	2046.5	2049.4	2052.4
22.5°	1993.1	2002.0	1996.1	2002.0	1999.0	1996.1	1996.1	1993.1
25°	1930.8	1942.7	1933.8	1939.7	1933.8	1927.8	1927.8	1930.8
27.5°	1853.7	1862.6	1850.7	1856.7	1850.7	1844.8	1844.8	1841.8
30°	1752.9	1755.8	1746.9	1752.9	1746.9	1744.0	1738.0	1738.0
32.5°	1631.3	1634.2	1625.3	1625.3	1619.4	1619.4	1607.5	1616.4
35°	1488.9	1491.9	1488.9	1485.9	1477.0	1474.1	1471.1	1471.1
37.5°	1340.6	1340.6	1331.7	1328.7	1322.8	1316.9	1319.8	1310.9
40°	1189.3	1186.4	1177.5	1180.4	1177.5	1168.6	1165.6	1162.6
42.5°	1047.0	1047.0	1038.1	1041.0	1035.1	1032.1	1023.2	1026.2
45°	922.4	922.4	913.5	913.5	910.5	901.6	904.6	898.7
47.5°	809.7	809.7	806.7	806.7	797.8	794.9	794.9	794.9
50°	711.8	711.8	711.8	711.8	708.9	705.9	702.9	705.9
52.5°	628.8	634.7	631.7	631.7	628.8	625.8	622.8	622.8
55°	554.6	557.6	557.6	560.6	557.6	554.6	557.6	554.6
57.5°	489.4	495.3	495.3	495.3	495.3	495.3	492.3	489.4
60°	433.0	436.0	436.0	439.0	439.0	439.0	436.0	436.0
62.5°	376.7	382.6	385.6	385.6	388.5	385.6	385.6	385.6
65°	332.2	338.1	341.1	338.1	341.1	341.1	338.1	338.1
67.5°	278.8	284.7	284.7	284.7	284.7	287.7	284.7	284.7
70°	225.4	231.3	228.4	231.3	231.3	231.3	231.3	231.3
72.5°	172.0	175.0	178.0	178.0	180.9	178.0	178.0	178.0
75°	124.6	130.5	130.5	130.5	130.5	133.5	133.5	133.5
77.5°	89.0	91.9	91.9	94.9	94.9	94.9	94.9	97.9
80°	62.3	62.3	65.3	65.3	68.2	68.2	68.2	68.2
82.5°	41.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
85°	23.7	26.7	26.7	26.7	26.7	29.7	29.7	29.7
87.5°	14.8	14.8	14.8	14.8	14.8	14.8	11.9	11.9
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)