

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: P252529

Luminaire Tested: **LD6B60D010TE EU6B60709727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252529
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: LD6B60D010TE EU6B60709727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 3622.0 lumens
Efficiency: N/A
Efficacy: 58.0 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

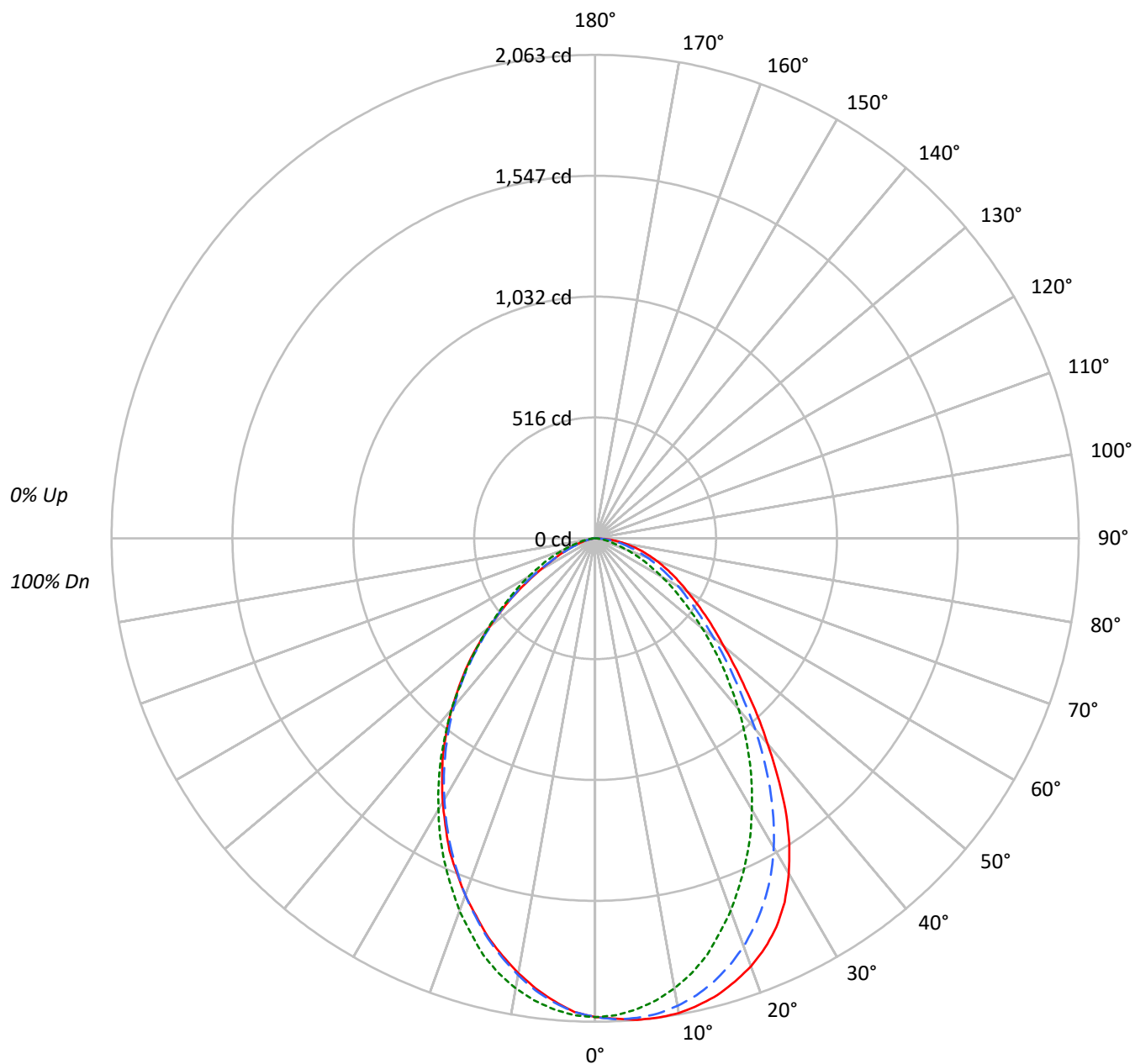
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252529

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBLWW1H

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	133306	133306	133306
5°	135119	132145	129912
10°	136303	129162	124836
15°	136286	124399	119036
20°	134967	117430	112507
25°	131769	109504	105825
30°	124428	100698	97918
35°	112792	91312	90189
40°	97404	81214	80967
45°	83527	70702	71219
50°	72590	60492	59629
55°	65209	51003	47772
60°	59252	42954	35178
65°	55636	35490	25842
70°	53048	27602	18942
75°	50792	20040	12881
80°	47978	13864	8529
85°	42518	8533	4267



TEST NUMBER: P252529

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	5.3
10°-20°	523.5	14.5
20°-30°	726.8	20.1
30°-40°	752.8	20.8
40°-50°	618.6	17.1
50°-60°	425.2	11.7
60°-70°	244.4	6.7
70°-80°	112.4	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°	1441.4	39.8
0°-40°	2194.1	60.6
0°-60°	3237.9	89.4
0°-90°	3622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2043	2043	2043	2043	2043	
5°	2063	2055	2018	1989	1984	197
15°	2018	1958	1842	1768	1762	568
25°	1830	1708	1521	1456	1470	838
35°	1416	1300	1146	1112	1132	878
45°	905	837	766	758	772	705
55°	573	519	448	423	420	516
65°	360	315	230	162	167	359
75°	202	159	80	51	51	213
85°	57	40	11	6	6	64
90°	0	0	0	0	0	



TEST NUMBER: P252529

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3
2.5°	2051.9	2068.9	2057.5	2054.7	2060.4	2060.4	2060.4	2051.9	2057.5	2049.0	2054.7
5°	2063.2	2077.4	2066.0	2060.4	2066.0	2068.9	2060.4	2054.7	2063.2	2051.9	2054.7
7.5°	2063.2	2077.4	2066.0	2063.2	2066.0	2066.0	2063.2	2051.9	2057.5	2046.2	2046.2
10°	2057.5	2068.9	2057.5	2051.9	2054.7	2051.9	2051.9	2037.7	2040.5	2026.3	2026.3
12.5°	2040.5	2054.7	2040.5	2034.8	2034.8	2034.8	2026.3	2015.0	2017.8	2000.8	1997.9
15°	2017.8	2029.2	2015.0	2009.3	2009.3	2006.5	2000.8	1983.7	1983.7	1966.7	1958.2
17.5°	1983.7	1995.1	1983.7	1975.2	1972.4	1966.7	1961.0	1944.0	1938.3	1918.5	1910.0
20°	1944.0	1952.5	1941.2	1932.7	1927.0	1921.3	1910.0	1892.9	1887.3	1867.4	1853.2
22.5°	1892.9	1904.3	1887.3	1878.7	1873.1	1864.6	1853.2	1836.2	1827.7	1802.1	1785.1
25°	1830.5	1836.2	1822.0	1813.5	1802.1	1796.4	1787.9	1765.2	1756.7	1728.3	1708.5
27.5°	1751.0	1756.7	1739.7	1734.0	1719.8	1714.1	1702.8	1682.9	1671.6	1643.2	1623.3
30°	1651.7	1657.4	1646.0	1637.5	1626.2	1614.8	1606.3	1586.4	1569.4	1541.0	1524.0
32.5°	1541.0	1549.5	1538.2	1526.8	1507.0	1509.8	1495.6	1475.7	1461.6	1436.0	1416.2
35°	1416.2	1421.8	1407.6	1404.8	1393.4	1382.1	1367.9	1353.7	1345.2	1316.8	1299.8
37.5°	1277.1	1291.3	1277.1	1265.7	1260.1	1251.5	1243.0	1223.2	1217.5	1200.5	1177.8
40°	1143.7	1152.2	1143.7	1132.4	1123.8	1123.8	1112.5	1101.1	1086.9	1069.9	1061.4
42.5°	1024.5	1018.8	1016.0	1010.3	999.0	996.1	993.3	979.1	970.6	953.6	939.4
45°	905.3	908.2	902.5	899.6	891.1	885.4	879.8	868.4	865.6	848.6	837.2
47.5°	806.0	803.1	797.5	797.5	791.8	786.1	780.4	771.9	769.1	754.9	743.6
50°	715.2	718.0	715.2	712.3	703.8	701.0	695.3	689.6	684.0	669.8	658.4
52.5°	641.4	638.5	635.7	635.7	627.2	624.4	618.7	613.0	607.3	593.1	584.6
55°	573.3	573.3	570.4	567.6	559.1	556.2	553.4	547.7	539.2	527.9	519.4
57.5°	510.8	510.8	508.0	505.2	499.5	499.5	493.8	488.1	482.5	471.1	459.8
60°	454.1	456.9	454.1	451.2	445.6	445.6	442.7	434.2	431.4	417.2	408.7
62.5°	405.8	405.8	405.8	403.0	400.2	394.5	394.5	386.0	380.3	371.8	360.4
65°	360.4	360.4	360.4	357.6	351.9	349.1	346.2	340.6	334.9	326.4	315.0
67.5°	317.9	317.9	317.9	315.0	309.3	306.5	303.7	300.8	292.3	283.8	272.4
70°	278.1	278.1	275.3	272.4	269.6	266.8	263.9	258.3	252.6	241.2	232.7
72.5°	238.4	238.4	238.4	232.7	229.9	229.9	224.2	221.4	215.7	204.3	195.8
75°	201.5	198.7	198.7	195.8	193.0	190.1	187.3	184.5	176.0	170.3	158.9
77.5°	164.6	164.6	161.8	158.9	158.9	156.1	153.3	147.6	144.7	136.2	127.7
80°	127.7	127.7	127.7	127.7	124.9	122.0	122.0	116.4	113.5	105.0	99.3
82.5°	96.5	93.7	93.7	93.7	90.8	88.0	88.0	85.1	82.3	76.6	70.9
85°	56.8	53.9	53.9	53.9	51.1	51.1	48.2	48.2	45.4	39.7	39.7
87.5°	17.0	17.0	19.9	19.9	17.0	17.0	17.0	17.0	17.0	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



TEST NUMBER: P252529

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3
2.5°	2049.0	2057.5	2046.2	2043.3	2054.7	2049.0	2046.2	2040.5	2043.3	2037.7	2029.2
5°	2046.2	2057.5	2043.3	2034.8	2049.0	2040.5	2034.8	2029.2	2029.2	2017.8	2012.1
7.5°	2037.7	2043.3	2029.2	2020.6	2029.2	2020.6	2015.0	2006.5	2003.6	1989.4	1980.9
10°	2015.0	2020.6	2003.6	1992.3	2000.8	1989.4	1980.9	1972.4	1966.7	1949.7	1938.3
12.5°	1983.7	1986.6	1966.7	1952.5	1958.2	1949.7	1935.5	1924.1	1918.5	1901.4	1887.3
15°	1941.2	1944.0	1921.3	1901.4	1907.1	1895.8	1878.7	1867.4	1858.9	1841.8	1822.0
17.5°	1890.1	1887.3	1861.7	1841.8	1844.7	1830.5	1813.5	1796.4	1785.1	1765.2	1751.0
20°	1833.3	1824.8	1796.4	1773.7	1776.6	1759.5	1739.7	1722.7	1708.5	1691.4	1671.6
22.5°	1762.4	1751.0	1725.5	1697.1	1699.9	1685.8	1657.4	1643.2	1629.0	1606.3	1589.3
25°	1685.8	1668.7	1643.2	1614.8	1614.8	1597.8	1575.1	1558.1	1543.9	1521.2	1501.3
27.5°	1594.9	1586.4	1552.4	1529.7	1526.8	1509.8	1489.9	1470.1	1453.0	1433.2	1413.3
30°	1495.6	1481.4	1455.9	1430.3	1424.7	1410.5	1390.6	1367.9	1356.6	1336.7	1319.7
32.5°	1390.6	1376.4	1348.0	1322.5	1319.7	1308.3	1291.3	1268.6	1257.2	1243.0	1231.7
35°	1271.4	1265.7	1237.4	1217.5	1217.5	1206.1	1189.1	1169.2	1160.7	1146.5	1132.4
37.5°	1157.9	1149.4	1123.8	1106.8	1106.8	1092.6	1075.6	1067.1	1058.6	1047.2	1038.7
40°	1038.7	1033.0	1013.2	996.1	999.0	987.6	976.3	964.9	959.2	953.6	945.0
42.5°	928.0	922.3	908.2	894.0	894.0	885.4	874.1	865.6	859.9	851.4	848.6
45°	828.7	820.2	808.8	794.6	794.6	786.1	780.4	774.8	771.9	766.3	757.7
47.5°	732.2	726.5	715.2	701.0	701.0	701.0	689.6	681.1	681.1	675.4	672.6
50°	649.9	641.4	632.9	621.5	621.5	615.8	607.3	598.8	598.8	596.0	590.3
52.5°	573.3	567.6	556.2	544.9	544.9	539.2	530.7	527.9	525.0	516.5	513.7
55°	508.0	502.3	493.8	479.6	476.8	473.9	465.4	459.8	456.9	448.4	448.4
57.5°	448.4	442.7	428.5	420.0	417.2	411.5	403.0	397.3	394.5	388.8	383.1
60°	397.3	388.8	377.5	366.1	363.3	357.6	349.1	343.4	340.6	329.2	323.5
62.5°	349.1	340.6	329.2	317.9	315.0	309.3	298.0	292.3	286.6	275.3	269.6
65°	303.7	295.1	283.8	272.4	266.8	263.9	252.6	244.1	238.4	229.9	218.5
67.5°	261.1	252.6	241.2	227.0	227.0	218.5	210.0	201.5	193.0	184.5	176.0
70°	221.4	212.8	201.5	190.1	187.3	181.6	173.1	161.8	156.1	144.7	136.2
72.5°	184.5	176.0	164.6	153.3	150.4	144.7	136.2	124.9	116.4	107.8	99.3
75°	150.4	141.9	130.5	122.0	119.2	113.5	105.0	93.7	85.1	79.5	70.9
77.5°	119.2	110.7	102.2	93.7	90.8	85.1	76.6	70.9	62.4	56.8	48.2
80°	90.8	85.1	76.6	70.9	68.1	62.4	56.8	48.2	42.6	36.9	34.1
82.5°	65.3	59.6	53.9	45.4	45.4	39.7	36.9	31.2	25.5	22.7	19.9
85°	36.9	31.2	28.4	25.5	22.7	22.7	19.9	17.0	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



TEST NUMBER: P252529

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3
2.5°	2029.2	2032.0	2026.3	2032.0	2026.3	2029.2	2023.5	2029.2	2023.5	2029.2	2017.8
5°	2009.3	2009.3	2000.8	2006.5	2000.8	2003.6	1992.3	1995.1	1989.4	1995.1	1983.7
7.5°	1975.2	1978.1	1963.9	1969.6	1961.0	1961.0	1952.5	1955.4	1946.9	1949.7	1941.2
10°	1935.5	1932.7	1918.5	1924.1	1912.8	1912.8	1904.3	1904.3	1892.9	1895.8	1884.4
12.5°	1878.7	1875.9	1858.9	1864.6	1853.2	1853.2	1844.7	1844.7	1833.3	1839.0	1827.7
15°	1813.5	1810.6	1793.6	1796.4	1785.1	1785.1	1773.7	1776.6	1768.1	1773.7	1762.4
17.5°	1739.7	1736.8	1719.8	1722.7	1708.5	1711.3	1702.8	1699.9	1694.3	1697.1	1688.6
20°	1663.1	1657.4	1640.4	1643.2	1637.5	1629.0	1623.3	1626.2	1620.5	1626.2	1617.6
22.5°	1583.6	1572.2	1558.1	1558.1	1552.4	1552.4	1543.9	1549.5	1538.2	1546.7	1541.0
25°	1492.8	1484.3	1472.9	1478.6	1467.2	1467.2	1458.7	1461.6	1455.9	1461.6	1455.9
27.5°	1404.8	1399.1	1382.1	1387.8	1379.3	1382.1	1373.6	1376.4	1373.6	1379.3	1373.6
30°	1311.1	1308.3	1297.0	1297.0	1294.1	1291.3	1288.4	1288.4	1285.6	1294.1	1288.4
32.5°	1223.2	1214.7	1203.3	1211.8	1197.6	1206.1	1200.5	1206.1	1200.5	1206.1	1203.3
35°	1132.4	1129.5	1115.3	1118.2	1115.3	1115.3	1112.5	1112.5	1112.5	1121.0	1121.0
37.5°	1035.9	1033.0	1024.5	1027.3	1021.7	1018.8	1018.8	1024.5	1024.5	1030.2	1030.2
40°	942.2	945.0	936.5	936.5	933.7	933.7	933.7	939.4	936.5	942.2	939.4
42.5°	848.6	848.6	840.0	842.9	840.0	842.9	842.9	848.6	848.6	851.4	848.6
45°	760.6	760.6	757.7	760.6	754.9	757.7	754.9	760.6	757.7	760.6	760.6
47.5°	672.6	672.6	672.6	669.8	669.8	669.8	669.8	669.8	666.9	672.6	669.8
50°	590.3	593.1	590.3	590.3	587.5	590.3	587.5	587.5	581.8	584.6	584.6
52.5°	516.5	516.5	510.8	510.8	510.8	508.0	508.0	508.0	505.2	505.2	499.5
55°	445.6	445.6	439.9	439.9	437.0	434.2	431.4	431.4	422.9	422.9	414.3
57.5°	380.3	377.5	368.9	368.9	363.3	360.4	357.6	354.7	349.1	343.4	340.6
60°	320.7	315.0	309.3	306.5	300.8	295.1	289.5	283.8	278.1	275.3	272.4
62.5°	263.9	255.4	249.7	246.9	241.2	232.7	227.0	221.4	215.7	212.8	207.2
65°	212.8	204.3	195.8	193.0	187.3	181.6	173.1	167.4	161.8	158.9	158.9
67.5°	167.4	158.9	147.6	147.6	141.9	136.2	130.5	124.9	122.0	124.9	124.9
70°	124.9	119.2	110.7	107.8	102.2	96.5	93.7	93.7	93.7	96.5	93.7
72.5°	93.7	85.1	79.5	76.6	73.8	70.9	70.9	70.9	68.1	70.9	70.9
75°	65.3	59.6	53.9	53.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1
77.5°	45.4	39.7	36.9	36.9	36.9	34.1	34.1	34.1	34.1	34.1	34.1
80°	28.4	28.4	25.5	25.5	22.7	22.7	22.7	22.7	22.7	22.7	22.7
82.5°	17.0	17.0	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: P252529

CATALOG NUMBER: LD6B60D010TE EU6B60709727 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3	2043.3
2.5°	2017.8	2026.3	2015.0	2023.5	2020.6	2017.8	2012.1	2023.5
5°	1983.7	1986.6	1975.2	1986.6	1983.7	1978.1	1972.4	1983.7
7.5°	1935.5	1944.0	1929.8	1941.2	1938.3	1932.7	1927.0	1938.3
10°	1881.6	1890.1	1878.7	1887.3	1887.3	1881.6	1873.1	1884.4
12.5°	1822.0	1827.7	1816.3	1827.7	1824.8	1819.1	1816.3	1824.8
15°	1756.7	1765.2	1753.9	1762.4	1759.5	1756.7	1753.9	1762.4
17.5°	1685.8	1694.3	1685.8	1694.3	1694.3	1685.8	1682.9	1688.6
20°	1614.8	1620.5	1612.0	1620.5	1617.6	1617.6	1612.0	1620.5
22.5°	1535.3	1543.9	1538.2	1543.9	1541.0	1541.0	1538.2	1543.9
25°	1455.9	1464.4	1455.9	1464.4	1461.6	1461.6	1455.9	1470.1
27.5°	1376.4	1382.1	1373.6	1384.9	1382.1	1376.4	1379.3	1382.1
30°	1291.3	1297.0	1291.3	1299.8	1299.8	1299.8	1294.1	1299.8
32.5°	1206.1	1214.7	1206.1	1214.7	1211.8	1211.8	1209.0	1214.7
35°	1121.0	1123.8	1118.2	1126.7	1126.7	1129.5	1123.8	1132.4
37.5°	1033.0	1035.9	1033.0	1035.9	1041.5	1033.0	1038.7	1041.5
40°	942.2	947.9	945.0	947.9	947.9	950.7	947.9	950.7
42.5°	851.4	857.1	851.4	859.9	857.1	857.1	859.9	859.9
45°	757.7	766.3	760.6	766.3	769.1	766.3	766.3	771.9
47.5°	669.8	675.4	672.6	675.4	675.4	675.4	675.4	681.1
50°	581.8	584.6	584.6	587.5	587.5	590.3	584.6	587.5
52.5°	493.8	499.5	499.5	499.5	496.6	499.5	499.5	499.5
55°	414.3	417.2	411.5	417.2	417.2	414.3	414.3	420.0
57.5°	337.7	337.7	337.7	337.7	337.7	334.9	337.7	337.7
60°	266.8	269.6	266.8	266.8	266.8	266.8	263.9	269.6
62.5°	207.2	207.2	204.3	207.2	207.2	207.2	210.0	210.0
65°	161.8	164.6	161.8	164.6	164.6	164.6	164.6	167.4
67.5°	127.7	127.7	127.7	127.7	127.7	127.7	127.7	127.7
70°	96.5	96.5	96.5	99.3	96.5	96.5	96.5	99.3
72.5°	70.9	70.9	70.9	70.9	70.9	70.9	73.8	73.8
75°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
77.5°	34.1	34.1	34.1	36.9	34.1	36.9	34.1	34.1
80°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
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)