

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: P252530

Luminaire Tested: **LD6B60D010TE EU6B60709730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252530
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 EU6B60709730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 3785.0 lumens
Efficiency: N/A
Efficacy: 60.6 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

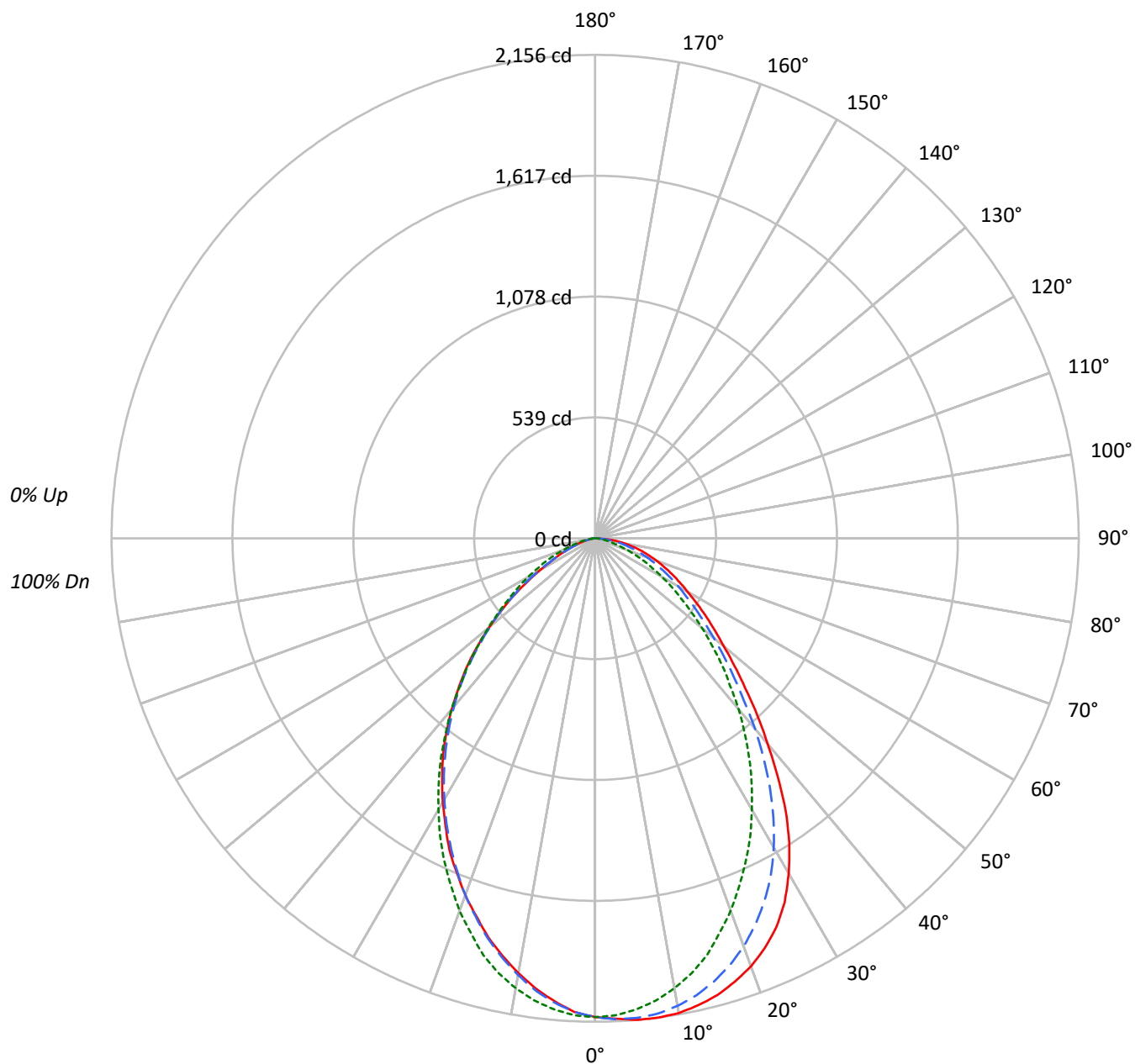
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	139308	139308	139308
5°	141203	138092	135760
10°	142438	134972	130454
15°	142419	129998	124392
20°	141042	122720	117569
25°	137700	114427	110583
30°	130025	105226	102325
35°	117865	95422	94243
40°	101790	84868	84612
45°	87291	73876	74430
50°	75858	63212	62309
55°	68144	53300	49922
60°	61913	44886	36757
65°	58137	37080	27015
70°	55432	28861	19800
75°	53086	20922	13461
80°	50157	14502	8904
85°	44389	8908	4416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	5.3
10°-20°	547.1	14.5
20°-30°	759.5	20.1
30°-40°	786.6	20.8
40°-50°	646.4	17.1
50°-60°	444.3	11.7
60°-70°	255.4	6.7
70°-80°	117.4	3.1
80°-90°	28.6	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°	1506.2	39.8
0°-40°	2292.9	60.6
0°-60°	3383.6	89.4
0°-90°	3785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3785.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2135	2135	2135	2135	2135	
5°	2156	2147	2109	2079	2073	205
15°	2109	2046	1925	1848	1842	594
25°	1913	1785	1590	1521	1536	875
35°	1480	1358	1198	1163	1183	918
45°	946	875	801	792	807	737
55°	599	543	469	442	439	539
65°	377	329	240	169	175	375
75°	211	166	83	53	53	223
85°	59	42	12	6	6	67
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°	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3
2.5°	2144.2	2162.0	2150.1	2147.2	2153.1	2153.1	2153.1	2144.2	2150.1	2141.2	2147.2
5°	2156.1	2170.9	2159.0	2153.1	2159.0	2162.0	2153.1	2147.2	2156.1	2144.2	2147.2
7.5°	2156.1	2170.9	2159.0	2156.1	2159.0	2159.0	2156.1	2144.2	2150.1	2138.3	2138.3
10°	2150.1	2162.0	2150.1	2144.2	2147.2	2144.2	2144.2	2129.4	2132.3	2117.5	2117.5
12.5°	2132.3	2147.2	2132.3	2126.4	2126.4	2126.4	2117.5	2105.6	2108.6	2090.8	2087.8
15°	2108.6	2120.5	2105.6	2099.7	2099.7	2096.7	2090.8	2073.0	2073.0	2055.2	2046.3
17.5°	2073.0	2084.9	2073.0	2064.1	2061.2	2055.2	2049.3	2031.5	2025.6	2004.8	1995.9
20°	2031.5	2040.4	2028.5	2019.6	2013.7	2007.8	1995.9	1978.1	1972.2	1951.4	1936.6
22.5°	1978.1	1990.0	1972.2	1963.3	1957.4	1948.5	1936.6	1918.8	1909.9	1883.2	1865.4
25°	1912.9	1918.8	1904.0	1895.1	1883.2	1877.3	1868.4	1844.7	1835.8	1806.1	1785.3
27.5°	1829.8	1835.8	1818.0	1812.0	1797.2	1791.3	1779.4	1758.7	1746.8	1717.1	1696.4
30°	1726.0	1732.0	1720.1	1711.2	1699.3	1687.5	1678.6	1657.8	1640.0	1610.4	1592.6
32.5°	1610.4	1619.3	1607.4	1595.5	1574.8	1577.7	1562.9	1542.2	1527.3	1500.6	1479.9
35°	1479.9	1485.8	1471.0	1468.0	1456.2	1444.3	1429.5	1414.6	1405.7	1376.1	1358.3
37.5°	1334.6	1349.4	1334.6	1322.7	1316.8	1307.9	1299.0	1278.2	1272.3	1254.5	1230.8
40°	1195.2	1204.1	1195.2	1183.3	1174.4	1174.4	1162.6	1150.7	1135.9	1118.1	1109.2
42.5°	1070.6	1064.7	1061.7	1055.8	1043.9	1041.0	1038.0	1023.2	1014.3	996.5	981.6
45°	946.1	949.0	943.1	940.1	931.2	925.3	919.4	907.5	904.5	886.7	874.9
47.5°	842.3	839.3	833.4	833.4	827.4	821.5	815.6	806.7	803.7	788.9	777.0
50°	747.4	750.3	747.4	744.4	735.5	732.5	726.6	720.7	714.7	699.9	688.0
52.5°	670.2	667.3	664.3	664.3	655.4	652.5	646.5	640.6	634.7	619.8	610.9
55°	599.1	599.1	596.1	593.1	584.2	581.3	578.3	572.4	563.5	551.6	542.7
57.5°	533.8	533.8	530.9	527.9	522.0	522.0	516.0	510.1	504.2	492.3	480.4
60°	474.5	477.5	474.5	471.5	465.6	465.6	462.6	453.8	450.8	436.0	427.1
62.5°	424.1	424.1	424.1	421.1	418.2	412.2	412.2	403.3	397.4	388.5	376.6
65°	376.6	376.6	376.6	373.7	367.7	364.8	361.8	355.9	350.0	341.1	329.2
67.5°	332.2	332.2	332.2	329.2	323.3	320.3	317.3	314.4	305.5	296.6	284.7
70°	290.6	290.6	287.7	284.7	281.7	278.8	275.8	269.9	263.9	252.1	243.2
72.5°	249.1	249.1	249.1	243.2	240.2	240.2	234.3	231.3	225.4	213.5	204.6
75°	210.6	207.6	207.6	204.6	201.7	198.7	195.7	192.8	183.9	177.9	166.1
77.5°	172.0	172.0	169.0	166.1	166.1	163.1	160.1	154.2	151.3	142.4	133.5
80°	133.5	133.5	133.5	133.5	130.5	127.5	127.5	121.6	118.6	109.7	103.8
82.5°	100.8	97.9	97.9	97.9	94.9	91.9	91.9	89.0	86.0	80.1	74.1
85°	59.3	56.3	56.3	56.3	53.4	53.4	50.4	50.4	47.5	41.5	41.5
87.5°	17.8	17.8	20.8	20.8	17.8	17.8	17.8	17.8	17.8	14.8	14.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3
2.5°	2141.2	2150.1	2138.3	2135.3	2147.2	2141.2	2138.3	2132.3	2135.3	2129.4	2120.5
5°	2138.3	2150.1	2135.3	2126.4	2141.2	2132.3	2126.4	2120.5	2120.5	2108.6	2102.7
7.5°	2129.4	2135.3	2120.5	2111.6	2120.5	2111.6	2105.6	2096.7	2093.8	2079.0	2070.1
10°	2105.6	2111.6	2093.8	2081.9	2090.8	2079.0	2070.1	2061.2	2055.2	2037.4	2025.6
12.5°	2073.0	2076.0	2055.2	2040.4	2046.3	2037.4	2022.6	2010.7	2004.8	1987.0	1972.2
15°	2028.5	2031.5	2007.8	1987.0	1992.9	1981.1	1963.3	1951.4	1942.5	1924.7	1904.0
17.5°	1975.2	1972.2	1945.5	1924.7	1927.7	1912.9	1895.1	1877.3	1865.4	1844.7	1829.8
20°	1915.8	1906.9	1877.3	1853.6	1856.5	1838.7	1818.0	1800.2	1785.3	1767.6	1746.8
22.5°	1841.7	1829.8	1803.1	1773.5	1776.5	1761.6	1732.0	1717.1	1702.3	1678.6	1660.8
25°	1761.6	1743.8	1717.1	1687.5	1687.5	1669.7	1646.0	1628.2	1613.3	1589.6	1568.9
27.5°	1666.7	1657.8	1622.2	1598.5	1595.5	1577.7	1557.0	1536.2	1518.4	1497.7	1476.9
30°	1562.9	1548.1	1521.4	1494.7	1488.8	1474.0	1453.2	1429.5	1417.6	1396.8	1379.0
32.5°	1453.2	1438.4	1408.7	1382.0	1379.0	1367.2	1349.4	1325.7	1313.8	1299.0	1287.1
35°	1328.6	1322.7	1293.0	1272.3	1272.3	1260.4	1242.6	1221.9	1213.0	1198.1	1183.3
37.5°	1210.0	1201.1	1174.4	1156.6	1156.6	1141.8	1124.0	1115.1	1106.2	1094.3	1085.4
40°	1085.4	1079.5	1058.8	1041.0	1043.9	1032.1	1020.2	1008.3	1002.4	996.5	987.6
42.5°	969.8	963.9	949.0	934.2	934.2	925.3	913.4	904.5	898.6	889.7	886.7
45°	866.0	857.1	845.2	830.4	830.4	821.5	815.6	809.6	806.7	800.7	791.8
47.5°	765.1	759.2	747.4	732.5	732.5	732.5	720.7	711.8	711.8	705.8	702.9
50°	679.1	670.2	661.3	649.5	649.5	643.6	634.7	625.8	625.8	622.8	616.9
52.5°	599.1	593.1	581.3	569.4	569.4	563.5	554.6	551.6	548.7	539.8	536.8
55°	530.9	524.9	516.0	501.2	498.2	495.3	486.4	480.4	477.5	468.6	468.6
57.5°	468.6	462.6	447.8	438.9	436.0	430.0	421.1	415.2	412.2	406.3	400.4
60°	415.2	406.3	394.4	382.6	379.6	373.7	364.8	358.8	355.9	344.0	338.1
62.5°	364.8	355.9	344.0	332.2	329.2	323.3	311.4	305.5	299.5	287.7	281.7
65°	317.3	308.4	296.6	284.7	278.8	275.8	263.9	255.0	249.1	240.2	228.4
67.5°	272.8	263.9	252.1	237.3	237.3	228.4	219.5	210.6	201.7	192.8	183.9
70°	231.3	222.4	210.6	198.7	195.7	189.8	180.9	169.0	163.1	151.3	142.4
72.5°	192.8	183.9	172.0	160.1	157.2	151.3	142.4	130.5	121.6	112.7	103.8
75°	157.2	148.3	136.4	127.5	124.6	118.6	109.7	97.9	89.0	83.0	74.1
77.5°	124.6	115.7	106.8	97.9	94.9	89.0	80.1	74.1	65.2	59.3	50.4
80°	94.9	89.0	80.1	74.1	71.2	65.2	59.3	50.4	44.5	38.6	35.6
82.5°	68.2	62.3	56.3	47.5	47.5	41.5	38.6	32.6	26.7	23.7	20.8
85°	38.6	32.6	29.7	26.7	23.7	23.7	20.8	17.8	14.8	11.9	11.9
87.5°	11.9	11.9	8.9	8.9	8.9	8.9	5.9	5.9	5.9	5.9	5.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3
2.5°	2120.5	2123.4	2117.5	2123.4	2117.5	2120.5	2114.5	2120.5	2114.5	2120.5	2108.6
5°	2099.7	2099.7	2090.8	2096.7	2090.8	2093.8	2081.9	2084.9	2079.0	2084.9	2073.0
7.5°	2064.1	2067.1	2052.3	2058.2	2049.3	2049.3	2040.4	2043.4	2034.5	2037.4	2028.5
10°	2022.6	2019.6	2004.8	2010.7	1998.9	1998.9	1990.0	1990.0	1978.1	1981.1	1969.2
12.5°	1963.3	1960.3	1942.5	1948.5	1936.6	1936.6	1927.7	1927.7	1915.8	1921.8	1909.9
15°	1895.1	1892.1	1874.3	1877.3	1865.4	1865.4	1853.6	1856.5	1847.6	1853.6	1841.7
17.5°	1818.0	1815.0	1797.2	1800.2	1785.3	1788.3	1779.4	1776.5	1770.5	1773.5	1764.6
20°	1737.9	1732.0	1714.2	1717.1	1711.2	1702.3	1696.4	1699.3	1693.4	1699.3	1690.4
22.5°	1654.9	1643.0	1628.2	1628.2	1622.2	1622.2	1613.3	1619.3	1607.4	1616.3	1610.4
25°	1560.0	1551.1	1539.2	1545.1	1533.3	1533.3	1524.4	1527.3	1521.4	1527.3	1521.4
27.5°	1468.0	1462.1	1444.3	1450.2	1441.3	1444.3	1435.4	1438.4	1435.4	1441.3	1435.4
30°	1370.2	1367.2	1355.3	1355.3	1352.4	1349.4	1346.4	1346.4	1343.5	1352.4	1346.4
32.5°	1278.2	1269.3	1257.5	1266.4	1251.5	1260.4	1254.5	1260.4	1254.5	1260.4	1257.5
35°	1183.3	1180.3	1165.5	1168.5	1165.5	1165.5	1162.6	1162.6	1162.6	1171.4	1171.4
37.5°	1082.5	1079.5	1070.6	1073.6	1067.7	1064.7	1064.7	1070.6	1070.6	1076.5	1076.5
40°	984.6	987.6	978.7	978.7	975.7	975.7	975.7	981.6	978.7	984.6	981.6
42.5°	886.7	886.7	877.8	880.8	877.8	880.8	880.8	886.7	886.7	889.7	886.7
45°	794.8	794.8	791.8	794.8	788.9	791.8	788.9	794.8	791.8	794.8	794.8
47.5°	702.9	702.9	702.9	699.9	699.9	699.9	699.9	699.9	696.9	702.9	699.9
50°	616.9	619.8	616.9	616.9	613.9	616.9	613.9	613.9	608.0	610.9	610.9
52.5°	539.8	539.8	533.8	533.8	533.8	530.9	530.9	530.9	527.9	527.9	522.0
55°	465.6	465.6	459.7	459.7	456.7	453.8	450.8	450.8	441.9	441.9	433.0
57.5°	397.4	394.4	385.5	385.5	379.6	376.6	373.7	370.7	364.8	358.8	355.9
60°	335.1	329.2	323.3	320.3	314.4	308.4	302.5	296.6	290.6	287.7	284.7
62.5°	275.8	266.9	261.0	258.0	252.1	243.2	237.3	231.3	225.4	222.4	216.5
65°	222.4	213.5	204.6	201.7	195.7	189.8	180.9	175.0	169.0	166.1	166.1
67.5°	175.0	166.1	154.2	154.2	148.3	142.4	136.4	130.5	127.5	130.5	130.5
70°	130.5	124.6	115.7	112.7	106.8	100.8	97.9	97.9	97.9	100.8	97.9
72.5°	97.9	89.0	83.0	80.1	77.1	74.1	74.1	74.1	71.2	74.1	74.1
75°	68.2	62.3	56.3	56.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4
77.5°	47.5	41.5	38.6	38.6	38.6	35.6	35.6	35.6	35.6	35.6	35.6
80°	29.7	29.7	26.7	26.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
82.5°	17.8	17.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
85°	8.9	8.9	8.9	8.9	8.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	3.0	3.0	3.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	5.9
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: P252530

CATALOG NUMBER: LD6B60D010TE EU6B60709730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3	2135.3
2.5°	2108.6	2117.5	2105.6	2114.5	2111.6	2108.6	2102.7	2114.5
5°	2073.0	2076.0	2064.1	2076.0	2073.0	2067.1	2061.2	2073.0
7.5°	2022.6	2031.5	2016.7	2028.5	2025.6	2019.6	2013.7	2025.6
10°	1966.3	1975.2	1963.3	1972.2	1972.2	1966.3	1957.4	1969.2
12.5°	1904.0	1909.9	1898.0	1909.9	1906.9	1901.0	1898.0	1906.9
15°	1835.8	1844.7	1832.8	1841.7	1838.7	1835.8	1832.8	1841.7
17.5°	1761.6	1770.5	1761.6	1770.5	1770.5	1761.6	1758.7	1764.6
20°	1687.5	1693.4	1684.5	1693.4	1690.4	1690.4	1684.5	1693.4
22.5°	1604.4	1613.3	1607.4	1613.3	1610.4	1610.4	1607.4	1613.3
25°	1521.4	1530.3	1521.4	1530.3	1527.3	1527.3	1521.4	1536.2
27.5°	1438.4	1444.3	1435.4	1447.3	1444.3	1438.4	1441.3	1444.3
30°	1349.4	1355.3	1349.4	1358.3	1358.3	1358.3	1352.4	1358.3
32.5°	1260.4	1269.3	1260.4	1269.3	1266.4	1266.4	1263.4	1269.3
35°	1171.4	1174.4	1168.5	1177.4	1177.4	1180.3	1174.4	1183.3
37.5°	1079.5	1082.5	1079.5	1082.5	1088.4	1079.5	1085.4	1088.4
40°	984.6	990.5	987.6	990.5	990.5	993.5	990.5	993.5
42.5°	889.7	895.6	889.7	898.6	895.6	895.6	898.6	898.6
45°	791.8	800.7	794.8	800.7	803.7	800.7	800.7	806.7
47.5°	699.9	705.8	702.9	705.8	705.8	705.8	705.8	711.8
50°	608.0	610.9	610.9	613.9	613.9	616.9	610.9	613.9
52.5°	516.0	522.0	522.0	522.0	519.0	522.0	522.0	522.0
55°	433.0	436.0	430.0	436.0	436.0	433.0	433.0	438.9
57.5°	352.9	352.9	352.9	352.9	352.9	350.0	352.9	352.9
60°	278.8	281.7	278.8	278.8	278.8	278.8	275.8	281.7
62.5°	216.5	216.5	213.5	216.5	216.5	216.5	219.5	219.5
65°	169.0	172.0	169.0	172.0	172.0	172.0	172.0	175.0
67.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
70°	100.8	100.8	100.8	103.8	100.8	100.8	100.8	103.8
72.5°	74.1	74.1	74.1	74.1	74.1	74.1	77.1	77.1
75°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
77.5°	35.6	35.6	35.6	38.6	35.6	38.6	35.6	35.6
80°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
82.5°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0
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)