

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: P252525

Luminaire Tested: **LD6B60D010TE EU6B60709030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252525
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 EU6B60709030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4330.0 lumens
Efficiency: N/A
Efficacy: 69.3 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

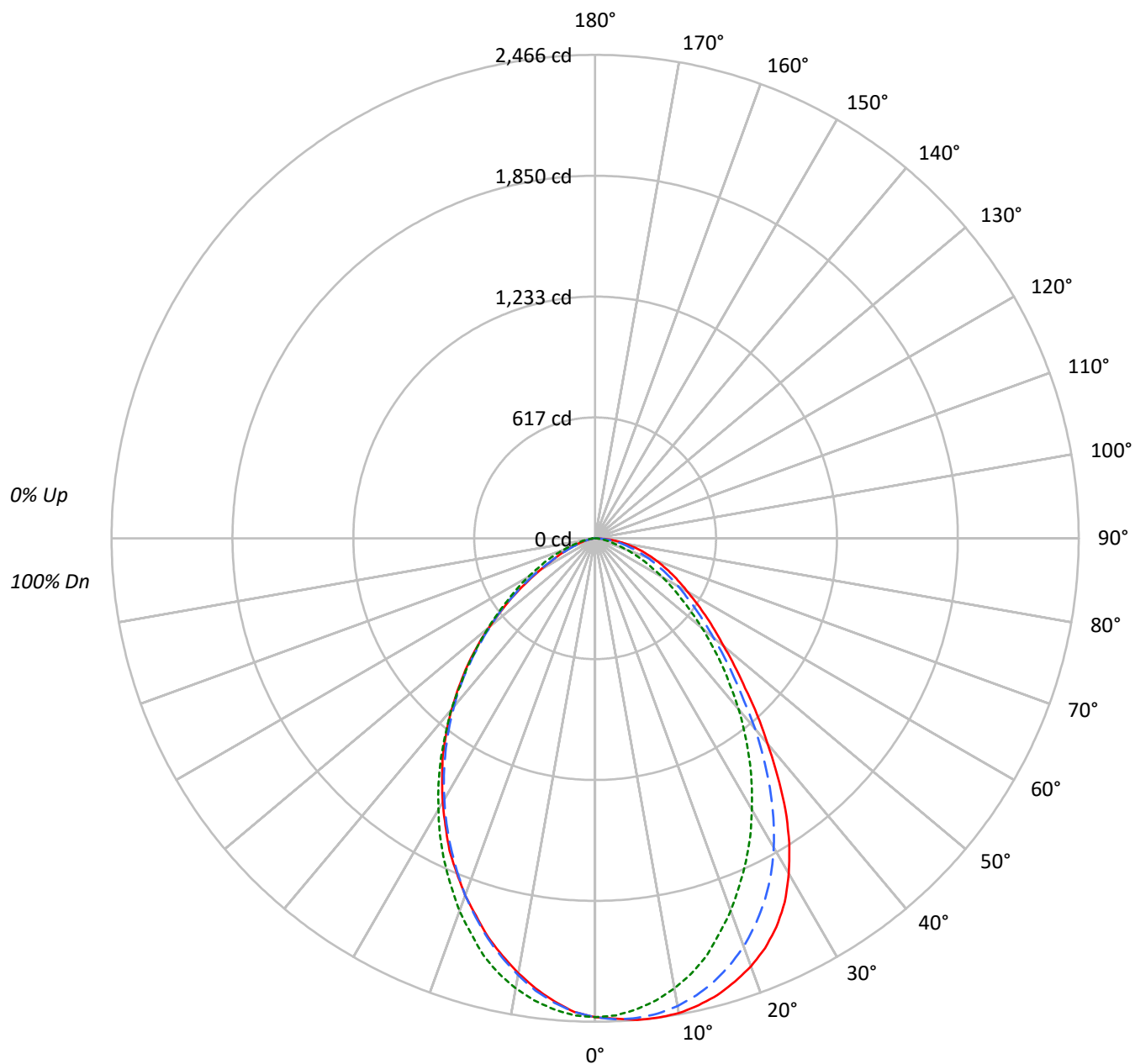
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	159370	159370	159370
5°	161531	157975	155309
10°	162948	154409	149241
15°	162925	148721	142304
20°	161350	140390	134495
25°	157525	130905	126507
30°	148753	120383	117061
35°	134837	109168	107814
40°	116447	97089	96799
45°	99858	84514	85141
50°	86779	72316	71281
55°	77948	60978	57111
60°	70825	51357	42054
65°	66519	42422	30905
70°	63425	33000	22642
75°	60724	23947	15402
80°	57370	16569	10182
85°	50827	10180	5090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	5.3
10°-20°	625.8	14.5
20°-30°	868.8	20.1
30°-40°	899.9	20.8
40°-50°	739.5	17.1
50°-60°	508.3	11.7
60°-70°	292.2	6.7
70°-80°	134.3	3.1
80°-90°	32.7	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°	1723.1	39.8
0°-40°	2623.0	60.6
0°-60°	3870.8	89.4
0°-90°	4330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2443	2443	2443	2443	2443	
5°	2466	2456	2412	2378	2372	235
15°	2412	2341	2202	2114	2107	679
25°	2188	2042	1818	1740	1757	1001
35°	1693	1554	1371	1330	1354	1050
45°	1082	1001	916	906	923	843
55°	685	621	536	506	502	617
65°	431	377	275	193	200	429
75°	241	190	95	61	61	255
85°	68	48	14	7	7	76
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°	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8
2.5°	2452.9	2473.3	2459.7	2456.3	2463.1	2463.1	2463.1	2452.9	2459.7	2449.5	2456.3
5°	2466.5	2483.5	2469.9	2463.1	2469.9	2473.3	2463.1	2456.3	2466.5	2452.9	2456.3
7.5°	2466.5	2483.5	2469.9	2466.5	2469.9	2469.9	2466.5	2452.9	2459.7	2446.2	2446.2
10°	2459.7	2473.3	2459.7	2452.9	2456.3	2452.9	2452.9	2436.0	2439.4	2422.4	2422.4
12.5°	2439.4	2456.3	2439.4	2432.6	2432.6	2432.6	2422.4	2408.8	2412.2	2391.9	2388.5
15°	2412.2	2425.8	2408.8	2402.0	2402.0	2398.7	2391.9	2371.5	2371.5	2351.2	2341.0
17.5°	2371.5	2385.1	2371.5	2361.3	2357.9	2351.2	2344.4	2324.0	2317.2	2293.5	2283.3
20°	2324.0	2334.2	2320.6	2310.4	2303.7	2296.9	2283.3	2262.9	2256.2	2232.4	2215.4
22.5°	2262.9	2276.5	2256.2	2246.0	2239.2	2229.0	2215.4	2195.1	2184.9	2154.4	2134.0
25°	2188.3	2195.1	2178.1	2168.0	2154.4	2147.6	2137.4	2110.3	2100.1	2066.2	2042.4
27.5°	2093.3	2100.1	2079.7	2073.0	2056.0	2049.2	2035.6	2011.9	1998.3	1964.4	1940.6
30°	1974.6	1981.4	1967.8	1957.6	1944.0	1930.5	1920.3	1896.5	1876.2	1842.2	1821.9
32.5°	1842.2	1852.4	1838.9	1825.3	1801.5	1804.9	1788.0	1764.2	1747.3	1716.7	1693.0
35°	1693.0	1699.8	1682.8	1679.4	1665.8	1652.3	1635.3	1618.3	1608.2	1574.2	1553.9
37.5°	1526.7	1543.7	1526.7	1513.2	1506.4	1496.2	1486.0	1462.3	1455.5	1435.1	1408.0
40°	1367.3	1377.4	1367.3	1353.7	1343.5	1343.5	1329.9	1316.4	1299.4	1279.1	1268.9
42.5°	1224.8	1218.0	1214.6	1207.8	1194.2	1190.8	1187.5	1170.5	1160.3	1140.0	1123.0
45°	1082.3	1085.7	1078.9	1075.5	1065.3	1058.5	1051.7	1038.2	1034.8	1014.4	1000.9
47.5°	963.5	960.1	953.4	953.4	946.6	939.8	933.0	922.8	919.4	902.5	888.9
50°	855.0	858.4	855.0	851.6	841.4	838.0	831.2	824.4	817.6	800.7	787.1
52.5°	766.8	763.4	760.0	760.0	749.8	746.4	739.6	732.8	726.0	709.1	698.9
55°	685.3	685.3	681.9	678.5	668.4	665.0	661.6	654.8	644.6	631.0	620.9
57.5°	610.7	610.7	607.3	603.9	597.1	597.1	590.3	583.5	576.8	563.2	549.6
60°	542.8	546.2	542.8	539.4	532.7	532.7	529.3	519.1	515.7	498.7	488.6
62.5°	485.2	485.2	485.2	481.8	478.4	471.6	471.6	461.4	454.6	444.4	430.9
65°	430.9	430.9	430.9	427.5	420.7	417.3	413.9	407.1	400.3	390.2	376.6
67.5°	380.0	380.0	380.0	376.6	369.8	366.4	363.0	359.6	349.5	339.3	325.7
70°	332.5	332.5	329.1	325.7	322.3	318.9	315.5	308.7	302.0	288.4	278.2
72.5°	285.0	285.0	285.0	278.2	274.8	274.8	268.0	264.6	257.8	244.3	234.1
75°	240.9	237.5	237.5	234.1	230.7	227.3	223.9	220.5	210.3	203.6	190.0
77.5°	196.8	196.8	193.4	190.0	190.0	186.6	183.2	176.4	173.0	162.9	152.7
80°	152.7	152.7	152.7	152.7	149.3	145.9	145.9	139.1	135.7	125.5	118.7
82.5°	115.4	112.0	112.0	112.0	108.6	105.2	105.2	101.8	98.4	91.6	84.8
85°	67.9	64.5	64.5	64.5	61.1	61.1	57.7	57.7	54.3	47.5	47.5
87.5°	20.4	20.4	23.7	23.7	20.4	20.4	20.4	20.4	20.4	17.0	17.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8
2.5°	2449.5	2459.7	2446.2	2442.8	2456.3	2449.5	2446.2	2439.4	2442.8	2436.0	2425.8
5°	2446.2	2459.7	2442.8	2432.6	2449.5	2439.4	2432.6	2425.8	2425.8	2412.2	2405.4
7.5°	2436.0	2442.8	2425.8	2415.6	2425.8	2415.6	2408.8	2398.7	2395.3	2378.3	2368.1
10°	2408.8	2415.6	2395.3	2381.7	2391.9	2378.3	2368.1	2357.9	2351.2	2330.8	2317.2
12.5°	2371.5	2374.9	2351.2	2334.2	2341.0	2330.8	2313.8	2300.3	2293.5	2273.1	2256.2
15°	2320.6	2324.0	2296.9	2273.1	2279.9	2266.3	2246.0	2232.4	2222.2	2201.9	2178.1
17.5°	2259.6	2256.2	2225.6	2201.9	2205.3	2188.3	2168.0	2147.6	2134.0	2110.3	2093.3
20°	2191.7	2181.5	2147.6	2120.5	2123.8	2103.5	2079.7	2059.4	2042.4	2022.1	1998.3
22.5°	2106.9	2093.3	2062.8	2028.8	2032.2	2015.3	1981.4	1964.4	1947.4	1920.3	1899.9
25°	2015.3	1994.9	1964.4	1930.5	1930.5	1910.1	1883.0	1862.6	1845.6	1818.5	1794.8
27.5°	1906.7	1896.5	1855.8	1828.7	1825.3	1804.9	1781.2	1757.4	1737.1	1713.3	1689.6
30°	1788.0	1771.0	1740.5	1709.9	1703.1	1686.2	1662.4	1635.3	1621.7	1598.0	1577.6
32.5°	1662.4	1645.5	1611.5	1581.0	1577.6	1564.0	1543.7	1516.5	1503.0	1486.0	1472.4
35°	1519.9	1513.2	1479.2	1455.5	1455.5	1441.9	1421.6	1397.8	1387.6	1370.7	1353.7
37.5°	1384.2	1374.1	1343.5	1323.2	1323.2	1306.2	1285.8	1275.7	1265.5	1251.9	1241.7
40°	1241.7	1235.0	1211.2	1190.8	1194.2	1180.7	1167.1	1153.5	1146.7	1140.0	1129.8
42.5°	1109.4	1102.6	1085.7	1068.7	1068.7	1058.5	1045.0	1034.8	1028.0	1017.8	1014.4
45°	990.7	980.5	966.9	950.0	950.0	939.8	933.0	926.2	922.8	916.0	905.9
47.5°	875.3	868.5	855.0	838.0	838.0	838.0	824.4	814.3	814.3	807.5	804.1
50°	776.9	766.8	756.6	743.0	743.0	736.2	726.0	715.9	715.9	712.5	705.7
52.5°	685.3	678.5	665.0	651.4	651.4	644.6	634.4	631.0	627.7	617.5	614.1
55°	607.3	600.5	590.3	573.4	570.0	566.6	556.4	549.6	546.2	536.1	536.1
57.5°	536.1	529.3	512.3	502.1	498.7	491.9	481.8	475.0	471.6	464.8	458.0
60°	475.0	464.8	451.2	437.7	434.3	427.5	417.3	410.5	407.1	393.6	386.8
62.5°	417.3	407.1	393.6	380.0	376.6	369.8	356.2	349.5	342.7	329.1	322.3
65°	363.0	352.8	339.3	325.7	318.9	315.5	302.0	291.8	285.0	274.8	261.2
67.5°	312.1	302.0	288.4	271.4	271.4	261.2	251.1	240.9	230.7	220.5	210.3
70°	264.6	254.5	240.9	227.3	223.9	217.1	207.0	193.4	186.6	173.0	162.9
72.5°	220.5	210.3	196.8	183.2	179.8	173.0	162.9	149.3	139.1	128.9	118.7
75°	179.8	169.6	156.1	145.9	142.5	135.7	125.5	112.0	101.8	95.0	84.8
77.5°	142.5	132.3	122.1	112.0	108.6	101.8	91.6	84.8	74.6	67.9	57.7
80°	108.6	101.8	91.6	84.8	81.4	74.6	67.9	57.7	50.9	44.1	40.7
82.5°	78.0	71.2	64.5	54.3	54.3	47.5	44.1	37.3	30.5	27.1	23.7
85°	44.1	37.3	33.9	30.5	27.1	27.1	23.7	20.4	17.0	13.6	13.6
87.5°	13.6	13.6	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	6.8
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°	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8
2.5°	2425.8	2429.2	2422.4	2429.2	2422.4	2425.8	2419.0	2425.8	2419.0	2425.8	2412.2
5°	2402.0	2402.0	2391.9	2398.7	2391.9	2395.3	2381.7	2385.1	2378.3	2385.1	2371.5
7.5°	2361.3	2364.7	2347.8	2354.6	2344.4	2344.4	2334.2	2337.6	2327.4	2330.8	2320.6
10°	2313.8	2310.4	2293.5	2300.3	2286.7	2286.7	2276.5	2276.5	2262.9	2266.3	2252.8
12.5°	2246.0	2242.6	2222.2	2229.0	2215.4	2215.4	2205.3	2205.3	2191.7	2198.5	2184.9
15°	2168.0	2164.6	2144.2	2147.6	2134.0	2134.0	2120.5	2123.8	2113.7	2120.5	2106.9
17.5°	2079.7	2076.3	2056.0	2059.4	2042.4	2045.8	2035.6	2032.2	2025.5	2028.8	2018.7
20°	1988.1	1981.4	1961.0	1964.4	1957.6	1947.4	1940.6	1944.0	1937.2	1944.0	1933.9
22.5°	1893.1	1879.6	1862.6	1862.6	1855.8	1855.8	1845.6	1852.4	1838.9	1849.0	1842.2
25°	1784.6	1774.4	1760.8	1767.6	1754.0	1754.0	1743.9	1747.3	1740.5	1747.3	1740.5
27.5°	1679.4	1672.6	1652.3	1659.0	1648.9	1652.3	1642.1	1645.5	1642.1	1648.9	1642.1
30°	1567.4	1564.0	1550.5	1550.5	1547.1	1543.7	1540.3	1540.3	1536.9	1547.1	1540.3
32.5°	1462.3	1452.1	1438.5	1448.7	1431.7	1441.9	1435.1	1441.9	1435.1	1441.9	1438.5
35°	1353.7	1350.3	1333.3	1336.7	1333.3	1333.3	1329.9	1329.9	1329.9	1340.1	1340.1
37.5°	1238.3	1235.0	1224.8	1228.2	1221.4	1218.0	1218.0	1224.8	1224.8	1231.6	1231.6
40°	1126.4	1129.8	1119.6	1119.6	1116.2	1116.2	1116.2	1123.0	1119.6	1126.4	1123.0
42.5°	1014.4	1014.4	1004.2	1007.6	1004.2	1007.6	1007.6	1014.4	1014.4	1017.8	1014.4
45°	909.2	909.2	905.9	909.2	902.5	905.9	902.5	909.2	905.9	909.2	909.2
47.5°	804.1	804.1	804.1	800.7	800.7	800.7	800.7	800.7	797.3	804.1	800.7
50°	705.7	709.1	705.7	705.7	702.3	705.7	702.3	702.3	695.5	698.9	698.9
52.5°	617.5	617.5	610.7	610.7	610.7	607.3	607.3	607.3	603.9	603.9	597.1
55°	532.7	532.7	525.9	525.9	522.5	519.1	515.7	515.7	505.5	505.5	495.3
57.5°	454.6	451.2	441.1	441.1	434.3	430.9	427.5	424.1	417.3	410.5	407.1
60°	383.4	376.6	369.8	366.4	359.6	352.8	346.1	339.3	332.5	329.1	325.7
62.5°	315.5	305.3	298.6	295.2	288.4	278.2	271.4	264.6	257.8	254.5	247.7
65°	254.5	244.3	234.1	230.7	223.9	217.1	207.0	200.2	193.4	190.0	190.0
67.5°	200.2	190.0	176.4	176.4	169.6	162.9	156.1	149.3	145.9	149.3	149.3
70°	149.3	142.5	132.3	128.9	122.1	115.4	112.0	112.0	112.0	115.4	112.0
72.5°	112.0	101.8	95.0	91.6	88.2	84.8	84.8	84.8	81.4	84.8	84.8
75°	78.0	71.2	64.5	64.5	61.1	61.1	61.1	61.1	61.1	61.1	61.1
77.5°	54.3	47.5	44.1	44.1	44.1	40.7	40.7	40.7	40.7	40.7	40.7
80°	33.9	33.9	30.5	30.5	27.1	27.1	27.1	27.1	27.1	27.1	27.1
82.5°	20.4	20.4	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	10.2	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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: P252525

CATALOG NUMBER: LD6B60D010TE EU6B60709030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8	2442.8
2.5°	2412.2	2422.4	2408.8	2419.0	2415.6	2412.2	2405.4	2419.0
5°	2371.5	2374.9	2361.3	2374.9	2371.5	2364.7	2357.9	2371.5
7.5°	2313.8	2324.0	2307.1	2320.6	2317.2	2310.4	2303.7	2317.2
10°	2249.4	2259.6	2246.0	2256.2	2256.2	2249.4	2239.2	2252.8
12.5°	2178.1	2184.9	2171.3	2184.9	2181.5	2174.7	2171.3	2181.5
15°	2100.1	2110.3	2096.7	2106.9	2103.5	2100.1	2096.7	2106.9
17.5°	2015.3	2025.5	2015.3	2025.5	2025.5	2015.3	2011.9	2018.7
20°	1930.5	1937.2	1927.1	1937.2	1933.9	1933.9	1927.1	1937.2
22.5°	1835.5	1845.6	1838.9	1845.6	1842.2	1842.2	1838.9	1845.6
25°	1740.5	1750.6	1740.5	1750.6	1747.3	1747.3	1740.5	1757.4
27.5°	1645.5	1652.3	1642.1	1655.6	1652.3	1645.5	1648.9	1652.3
30°	1543.7	1550.5	1543.7	1553.9	1553.9	1553.9	1547.1	1553.9
32.5°	1441.9	1452.1	1441.9	1452.1	1448.7	1448.7	1445.3	1452.1
35°	1340.1	1343.5	1336.7	1346.9	1346.9	1350.3	1343.5	1353.7
37.5°	1235.0	1238.3	1235.0	1238.3	1245.1	1235.0	1241.7	1245.1
40°	1126.4	1133.2	1129.8	1133.2	1133.2	1136.6	1133.2	1136.6
42.5°	1017.8	1024.6	1017.8	1028.0	1024.6	1024.6	1028.0	1028.0
45°	905.9	916.0	909.2	916.0	919.4	916.0	916.0	922.8
47.5°	800.7	807.5	804.1	807.5	807.5	807.5	807.5	814.3
50°	695.5	698.9	698.9	702.3	702.3	705.7	698.9	702.3
52.5°	590.3	597.1	597.1	597.1	593.7	597.1	597.1	597.1
55°	495.3	498.7	491.9	498.7	498.7	495.3	495.3	502.1
57.5°	403.7	403.7	403.7	403.7	403.7	400.3	403.7	403.7
60°	318.9	322.3	318.9	318.9	318.9	318.9	315.5	322.3
62.5°	247.7	247.7	244.3	247.7	247.7	247.7	251.1	251.1
65°	193.4	196.8	193.4	196.8	196.8	196.8	196.8	200.2
67.5°	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7
70°	115.4	115.4	115.4	118.7	115.4	115.4	115.4	118.7
72.5°	84.8	84.8	84.8	84.8	84.8	84.8	88.2	88.2
75°	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
77.5°	40.7	40.7	40.7	44.1	40.7	44.1	40.7	40.7
80°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
82.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4
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)