

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: P252733

Luminaire Tested: **LD6B60D010TE EU6B60709030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252733
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 EU6B60709030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 4761.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

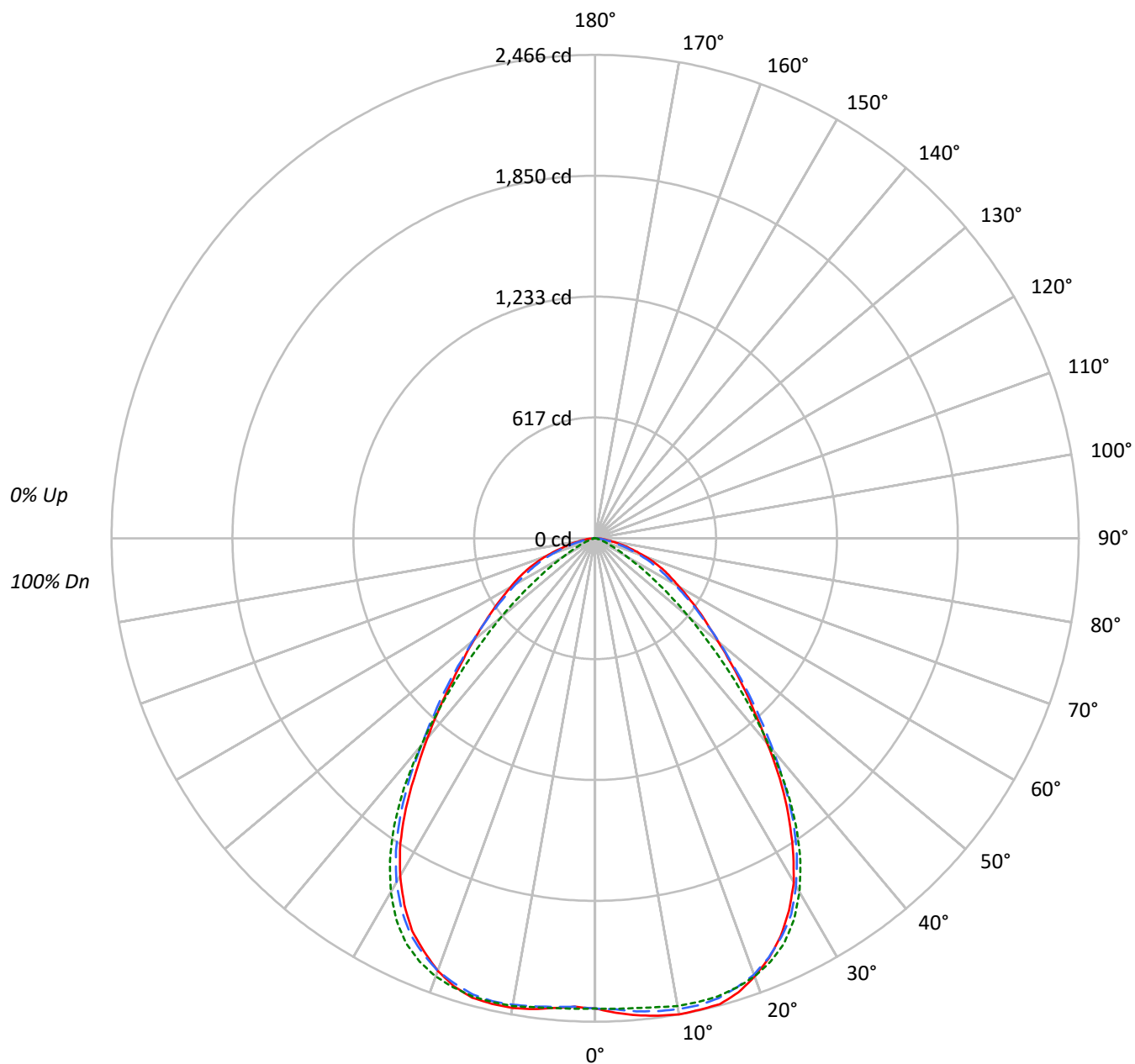
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89						
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78						
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68						
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61						
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54						
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48						
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44						
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40						
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36						
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	156493	156493	156493
5°	159979	157536	157536
10°	163398	160477	161153
15°	166140	163391	163844
20°	165120	165120	163002
25°	161189	164119	158993
30°	152588	156935	149778
35°	136725	142133	134025
40°	116157	117605	113270
45°	98289	89838	94848
50°	82994	63364	81958
55°	72932	40902	72159
60°	64627	24348	65071
65°	59711	14665	59711
70°	51770	8412	50473
75°	41062	5142	38491
80°	30582	3832	29305
85°	27921	2545	25376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	4.9
10°-20°	683.5	14.4
20°-30°	1027.9	21.6
30°-40°	1080.8	22.7
40°-50°	807.4	17.0
50°-60°	502.6	10.6
60°-70°	285.9	6.0
70°-80°	117.7	2.5
80°-90°	24.3	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°	1942.3	40.8
0°-40°	3023.1	63.5
0°-60°	4333.1	91.0
0°-90°	4761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2399	2399	2399	2399	2399	
5°	2443	2422	2406	2399	2406	234
15°	2460	2429	2419	2409	2426	692
25°	2239	2246	2280	2229	2209	1025
35°	1717	1761	1785	1734	1683	1065
45°	1065	1089	974	1069	1028	826
55°	641	628	360	618	634	577
65°	387	346	95	346	387	381
75°	163	129	20	126	153	177
85°	37	24	3	20	34	42
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°	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7
2.5°	2422.4	2419.1	2422.4	2415.7	2412.3	2412.3	2415.7	2408.9	2405.5	2408.9	2405.5
5°	2442.8	2436.0	2439.4	2436.0	2429.2	2429.2	2432.6	2422.4	2422.4	2425.8	2422.4
7.5°	2456.4	2456.4	2456.4	2449.6	2446.2	2442.8	2449.6	2439.4	2436.0	2436.0	2432.6
10°	2466.5	2463.2	2466.5	2459.8	2453.0	2449.6	2456.4	2449.6	2442.8	2449.6	2439.4
12.5°	2463.2	2463.2	2463.2	2459.8	2453.0	2449.6	2456.4	2446.2	2442.8	2446.2	2439.4
15°	2459.8	2449.6	2453.0	2449.6	2439.4	2439.4	2442.8	2432.6	2425.8	2436.0	2429.2
17.5°	2429.2	2422.4	2425.8	2419.1	2412.3	2408.9	2412.3	2408.9	2402.1	2408.9	2402.1
20°	2378.3	2378.3	2381.7	2374.9	2368.2	2364.8	2371.6	2364.8	2358.0	2368.2	2368.2
22.5°	2317.3	2317.3	2317.3	2313.9	2310.5	2310.5	2310.5	2307.1	2303.7	2310.5	2313.9
25°	2239.2	2235.8	2239.2	2242.6	2239.2	2235.8	2239.2	2239.2	2232.4	2246.0	2246.0
27.5°	2140.8	2140.8	2147.6	2144.2	2144.2	2140.8	2147.6	2147.6	2144.2	2154.4	2164.6
30°	2025.5	2018.7	2025.5	2025.5	2028.9	2028.9	2032.3	2032.3	2032.3	2042.5	2049.2
32.5°	1876.2	1879.6	1889.8	1886.4	1883.0	1893.2	1893.2	1900.0	1903.3	1910.1	1913.5
35°	1716.7	1720.1	1720.1	1723.5	1730.3	1723.5	1740.5	1737.1	1740.5	1754.1	1760.9
37.5°	1547.1	1536.9	1553.9	1547.1	1550.5	1550.5	1557.3	1560.7	1570.9	1587.8	1587.8
40°	1363.9	1367.3	1374.1	1377.5	1380.9	1380.9	1380.9	1391.0	1394.4	1414.8	1411.4
42.5°	1204.4	1204.4	1211.2	1214.6	1214.6	1214.6	1214.6	1224.8	1231.6	1238.4	1245.1
45°	1065.3	1055.2	1061.9	1061.9	1068.7	1065.3	1072.1	1078.9	1082.3	1092.5	1089.1
47.5°	933.0	929.6	933.0	936.4	933.0	936.4	939.8	943.2	946.6	946.6	946.6
50°	817.7	817.7	821.1	824.4	824.4	824.4	824.4	827.8	827.8	834.6	827.8
52.5°	722.7	726.1	726.1	722.7	726.1	726.1	729.4	729.4	726.1	726.1	715.9
55°	641.2	637.8	641.2	637.8	641.2	641.2	637.8	637.8	634.4	631.1	627.7
57.5°	563.2	563.2	563.2	563.2	559.8	563.2	559.8	556.4	556.4	549.6	539.5
60°	495.3	495.3	495.3	495.3	495.3	492.0	495.3	492.0	485.2	478.4	464.8
62.5°	437.7	434.3	437.7	434.3	434.3	430.9	430.9	427.5	420.7	413.9	400.3
65°	386.8	390.2	386.8	386.8	383.4	380.0	380.0	376.6	366.4	359.6	346.1
67.5°	332.5	329.1	329.1	329.1	325.7	325.7	325.7	318.9	312.1	302.0	288.4
70°	271.4	271.4	271.4	268.0	268.0	264.6	264.6	261.2	254.5	247.7	230.7
72.5°	213.7	213.7	213.7	207.0	210.4	207.0	207.0	200.2	196.8	186.6	176.4
75°	162.9	162.9	159.5	159.5	156.1	152.7	152.7	149.3	145.9	139.1	128.9
77.5°	118.7	118.7	118.7	115.4	112.0	108.6	108.6	105.2	101.8	98.4	91.6
80°	81.4	81.4	81.4	81.4	78.0	74.6	74.6	71.2	71.2	67.9	61.1
82.5°	54.3	54.3	54.3	54.3	50.9	50.9	50.9	47.5	44.1	44.1	37.3
85°	37.3	37.3	33.9	33.9	33.9	33.9	30.5	30.5	27.1	23.7	23.7
87.5°	20.4	20.4	20.4	20.4	17.0	17.0	17.0	17.0	13.6	13.6	10.2
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°	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7
2.5°	2415.7	2415.7	2412.3	2402.1	2405.5	2402.1	2405.5	2402.1	2391.9	2402.1	2391.9
5°	2429.2	2432.6	2425.8	2412.3	2415.7	2412.3	2412.3	2408.9	2398.7	2405.5	2398.7
7.5°	2442.8	2439.4	2436.0	2422.4	2425.8	2422.4	2422.4	2415.7	2405.5	2412.3	2402.1
10°	2449.6	2449.6	2442.8	2429.2	2429.2	2425.8	2429.2	2425.8	2412.3	2422.4	2415.7
12.5°	2449.6	2446.2	2446.2	2429.2	2432.6	2429.2	2432.6	2425.8	2415.7	2422.4	2419.1
15°	2439.4	2439.4	2436.0	2419.1	2422.4	2422.4	2425.8	2419.1	2408.9	2419.1	2412.3
17.5°	2419.1	2419.1	2415.7	2402.1	2408.9	2408.9	2412.3	2405.5	2395.3	2402.1	2402.1
20°	2378.3	2381.7	2381.7	2371.6	2378.3	2378.3	2381.7	2378.3	2374.9	2378.3	2371.6
22.5°	2330.8	2337.6	2337.6	2327.4	2334.2	2334.2	2344.4	2341.0	2334.2	2337.6	2334.2
25°	2259.6	2266.4	2273.2	2266.4	2273.2	2273.2	2283.3	2279.9	2273.2	2279.9	2269.8
27.5°	2178.2	2181.6	2188.3	2181.6	2191.7	2188.3	2198.5	2195.1	2184.9	2195.1	2191.7
30°	2062.8	2076.4	2086.6	2076.4	2086.6	2086.6	2093.3	2090.0	2086.6	2083.2	2083.2
32.5°	1933.9	1947.5	1947.5	1944.1	1950.8	1950.8	1954.2	1947.5	1944.1	1947.5	1950.8
35°	1774.4	1781.2	1788.0	1784.6	1788.0	1791.4	1788.0	1791.4	1781.2	1784.6	1784.6
37.5°	1601.4	1608.2	1608.2	1598.0	1604.8	1604.8	1598.0	1598.0	1591.2	1598.0	1584.4
40°	1418.2	1411.4	1414.8	1408.0	1401.2	1401.2	1397.8	1384.3	1377.5	1380.9	1384.3
42.5°	1238.4	1238.4	1228.2	1211.2	1194.3	1194.3	1184.1	1177.3	1163.7	1170.5	1167.1
45°	1085.7	1068.7	1055.2	1028.0	1017.8	1011.0	994.1	977.1	970.3	973.7	970.3
47.5°	939.8	926.2	892.3	855.0	844.8	834.6	814.3	793.9	787.1	780.3	780.3
50°	817.7	793.9	756.6	715.9	698.9	681.9	654.8	634.4	620.9	624.3	624.3
52.5°	705.7	678.6	634.4	583.6	563.2	542.8	519.1	495.3	485.2	481.8	481.8
55°	607.3	576.8	532.7	475.0	458.0	434.3	403.7	376.6	363.0	359.6	366.4
57.5°	519.1	492.0	441.1	383.4	363.0	339.3	308.7	285.0	268.0	264.6	268.0
60°	447.8	410.5	366.4	312.1	285.0	264.6	230.7	210.4	193.4	186.6	190.0
62.5°	376.6	342.7	298.6	244.3	223.9	203.6	173.0	149.3	135.7	132.3	135.7
65°	322.3	288.4	247.7	200.2	179.8	159.5	132.3	108.6	98.4	95.0	98.4
67.5°	268.0	237.5	203.6	159.5	142.5	125.5	98.4	81.4	67.9	64.5	67.9
70°	217.1	190.0	156.1	125.5	108.6	95.0	74.6	57.7	47.5	44.1	47.5
72.5°	162.9	142.5	118.7	91.6	81.4	71.2	54.3	40.7	33.9	30.5	33.9
75°	118.7	101.8	84.8	64.5	57.7	50.9	37.3	27.1	23.7	20.4	23.7
77.5°	81.4	71.2	57.7	44.1	37.3	33.9	23.7	20.4	17.0	13.6	13.6
80°	54.3	47.5	37.3	30.5	27.1	23.7	17.0	13.6	10.2	10.2	10.2
82.5°	33.9	27.1	23.7	17.0	13.6	13.6	10.2	6.8	6.8	6.8	6.8
85°	20.4	17.0	13.6	10.2	6.8	6.8	3.4	3.4	3.4	3.4	3.4
87.5°	10.2	6.8	6.8	3.4	3.4	3.4	3.4	3.4	0.0	0.0	3.4
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°	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7
2.5°	2398.7	2391.9	2391.9	2395.3	2398.7	2402.1	2395.3	2391.9	2391.9	2402.1	2395.3
5°	2398.7	2395.3	2395.3	2395.3	2402.1	2405.5	2398.7	2395.3	2398.7	2408.9	2405.5
7.5°	2408.9	2402.1	2405.5	2405.5	2408.9	2415.7	2408.9	2405.5	2408.9	2419.1	2412.3
10°	2415.7	2408.9	2412.3	2408.9	2419.1	2422.4	2415.7	2412.3	2415.7	2429.2	2425.8
12.5°	2419.1	2415.7	2415.7	2412.3	2422.4	2425.8	2419.1	2415.7	2419.1	2429.2	2425.8
15°	2412.3	2408.9	2408.9	2408.9	2415.7	2422.4	2412.3	2408.9	2408.9	2419.1	2415.7
17.5°	2398.7	2391.9	2391.9	2391.9	2395.3	2398.7	2388.5	2385.1	2381.7	2391.9	2388.5
20°	2374.9	2368.2	2361.4	2361.4	2364.8	2364.8	2358.0	2347.8	2347.8	2351.2	2344.4
22.5°	2330.8	2327.4	2320.7	2317.3	2324.1	2320.7	2307.1	2296.9	2293.5	2296.9	2290.1
25°	2269.8	2263.0	2259.6	2256.2	2259.6	2256.2	2242.6	2229.1	2229.1	2229.1	2218.9
27.5°	2184.9	2178.2	2174.8	2174.8	2178.2	2171.4	2157.8	2144.2	2137.4	2137.4	2127.3
30°	2076.4	2076.4	2073.0	2069.6	2066.2	2066.2	2045.8	2032.3	2025.5	2028.9	2022.1
32.5°	1944.1	1940.7	1937.3	1927.1	1930.5	1927.1	1910.1	1900.0	1889.8	1883.0	1879.6
35°	1774.4	1774.4	1771.0	1771.0	1771.0	1767.6	1750.7	1740.5	1733.7	1730.3	1720.1
37.5°	1587.8	1584.4	1581.0	1581.0	1581.0	1581.0	1570.9	1560.7	1560.7	1557.3	1550.5
40°	1377.5	1380.9	1384.3	1380.9	1391.0	1401.2	1387.6	1380.9	1377.5	1387.6	1374.1
42.5°	1173.9	1170.5	1187.5	1190.9	1190.9	1207.8	1211.2	1214.6	1211.2	1218.0	1218.0
45°	977.1	973.7	990.7	997.5	1014.4	1034.8	1045.0	1061.9	1068.7	1075.5	1068.7
47.5°	790.5	804.1	817.7	834.6	848.2	882.1	902.5	919.4	926.2	936.4	936.4
50°	634.4	648.0	671.8	685.3	702.3	743.0	776.9	800.7	814.3	824.4	821.1
52.5°	488.6	512.3	542.8	556.4	580.2	627.7	665.0	692.1	709.1	719.3	722.7
55°	376.6	397.0	427.5	447.8	471.6	522.5	570.0	600.5	617.5	631.1	637.8
57.5°	278.2	302.0	335.9	352.8	380.0	437.7	478.4	515.7	536.1	553.0	556.4
60°	203.6	227.3	257.9	278.2	305.3	363.0	410.5	444.5	468.2	481.8	488.6
62.5°	145.9	169.6	200.2	220.5	244.3	295.2	342.7	376.6	400.3	417.3	427.5
65°	105.2	128.9	159.5	176.4	196.8	244.3	288.4	322.3	346.1	366.4	373.2
67.5°	78.0	95.0	122.1	139.1	159.5	196.8	234.1	264.6	288.4	305.3	312.1
70°	57.7	71.2	95.0	105.2	118.7	152.7	183.2	210.4	230.7	244.3	251.1
72.5°	40.7	50.9	67.9	78.0	88.2	115.4	139.1	159.5	173.0	186.6	193.4
75°	27.1	33.9	47.5	54.3	61.1	81.4	98.4	115.4	125.5	135.7	139.1
77.5°	17.0	23.7	33.9	37.3	44.1	54.3	67.9	78.0	84.8	91.6	98.4
80°	10.2	13.6	20.4	23.7	27.1	37.3	44.1	50.9	57.7	64.5	67.9
82.5°	6.8	10.2	13.6	13.6	17.0	20.4	27.1	33.9	37.3	40.7	44.1
85°	3.4	3.4	6.8	6.8	10.2	10.2	13.6	17.0	20.4	23.7	27.1
87.5°	3.4	3.4	3.4	3.4	6.8	6.8	10.2	10.2	10.2	13.6	13.6
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: P252733

CATALOG NUMBER: LD6B60D010TE EU6B60709030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7
2.5°	2388.5	2398.7	2388.5	2395.3	2391.9	2391.9	2388.5	2391.9
5°	2398.7	2412.3	2398.7	2408.9	2402.1	2402.1	2402.1	2405.5
7.5°	2408.9	2422.4	2412.3	2422.4	2419.1	2415.7	2415.7	2422.4
10°	2419.1	2429.2	2422.4	2432.6	2429.2	2425.8	2425.8	2432.6
12.5°	2419.1	2432.6	2425.8	2436.0	2432.6	2429.2	2429.2	2432.6
15°	2408.9	2425.8	2415.7	2425.8	2422.4	2419.1	2419.1	2425.8
17.5°	2378.3	2391.9	2385.1	2391.9	2391.9	2388.5	2391.9	2395.3
20°	2337.6	2347.8	2341.0	2347.8	2347.8	2341.0	2344.4	2347.8
22.5°	2279.9	2290.1	2283.3	2290.1	2286.7	2283.3	2283.3	2279.9
25°	2208.7	2222.3	2212.1	2218.9	2212.1	2205.3	2205.3	2208.7
27.5°	2120.5	2130.7	2117.1	2123.9	2117.1	2110.3	2110.3	2106.9
30°	2005.1	2008.5	1998.3	2005.1	1998.3	1995.0	1988.2	1988.2
32.5°	1866.0	1869.4	1859.2	1859.2	1852.5	1852.5	1838.9	1849.1
35°	1703.2	1706.6	1703.2	1699.8	1689.6	1686.2	1682.8	1682.8
37.5°	1533.5	1533.5	1523.4	1520.0	1513.2	1506.4	1509.8	1499.6
40°	1360.5	1357.1	1346.9	1350.3	1346.9	1336.8	1333.4	1330.0
42.5°	1197.7	1197.7	1187.5	1190.9	1184.1	1180.7	1170.5	1173.9
45°	1055.2	1055.2	1045.0	1045.0	1041.6	1031.4	1034.8	1028.0
47.5°	926.2	926.2	922.8	922.8	912.7	909.3	909.3	909.3
50°	814.3	814.3	814.3	814.3	810.9	807.5	804.1	807.5
52.5°	719.3	726.1	722.7	722.7	719.3	715.9	712.5	712.5
55°	634.4	637.8	637.8	641.2	637.8	634.4	637.8	634.4
57.5°	559.8	566.6	566.6	566.6	566.6	566.6	563.2	559.8
60°	495.3	498.7	498.7	502.1	502.1	502.1	498.7	498.7
62.5°	430.9	437.7	441.1	441.1	444.5	441.1	441.1	441.1
65°	380.0	386.8	390.2	386.8	390.2	390.2	386.8	386.8
67.5°	318.9	325.7	325.7	325.7	325.7	329.1	325.7	325.7
70°	257.9	264.6	261.2	264.6	264.6	264.6	264.6	264.6
72.5°	196.8	200.2	203.6	203.6	207.0	203.6	203.6	203.6
75°	142.5	149.3	149.3	149.3	149.3	152.7	152.7	152.7
77.5°	101.8	105.2	105.2	108.6	108.6	108.6	108.6	112.0
80°	71.2	71.2	74.6	74.6	78.0	78.0	78.0	78.0
82.5°	47.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9
85°	27.1	30.5	30.5	30.5	30.5	33.9	33.9	33.9
87.5°	17.0	17.0	17.0	17.0	17.0	17.0	13.6	13.6
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)