

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: P252420

Luminaire Tested: **LD6B60D010TE EU6B60709027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60709027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4436.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

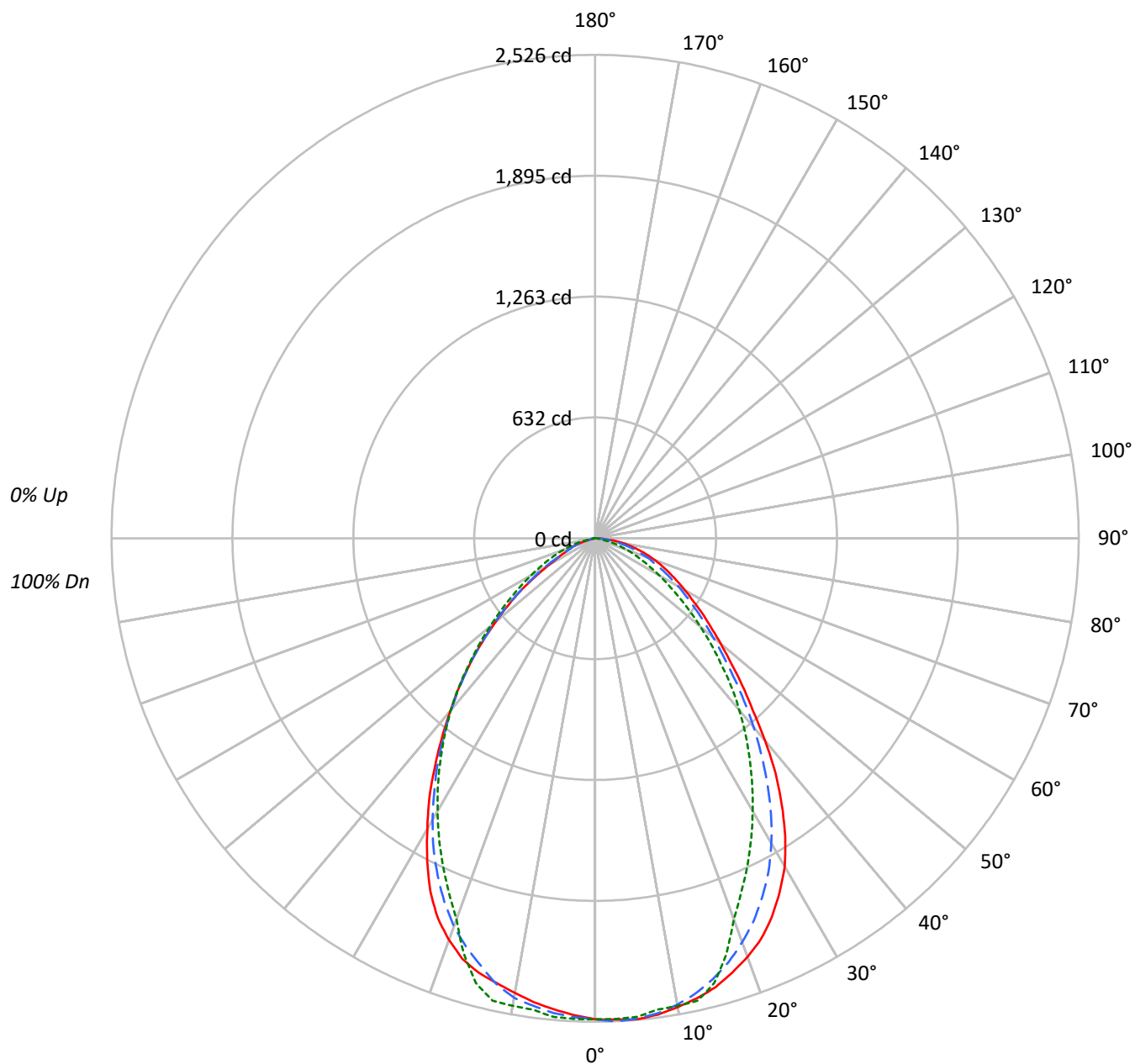
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	62	57		66	60	56		64
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	46	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	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	163982	163982	163982
5°	165251	164393	161825
10°	164783	164346	159808
15°	164033	162493	158744
20°	161586	147082	155011
25°	157201	135584	146626
30°	149266	123938	132052
35°	135451	112051	116209
40°	117597	99806	100078
45°	100291	85833	84929
50°	86800	72560	68581
55°	77596	60523	53095
60°	70708	50261	35778
65°	66010	41326	26706
70°	62891	33629	22413
75°	59237	23871	7411
80°	56431	12248	2442
85°	46410	7336	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	5.4
10°-20°	663.9	15.0
20°-30°	916.3	20.7
30°-40°	932.5	21.0
40°-50°	749.4	16.9
50°-60°	498.3	11.2
60°-70°	283.9	6.4
70°-80°	127.5	2.9
80°-90°	26.9	0.6
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°	1817.5	41.0
0°-40°	2750.0	62.0
0°-60°	3997.7	90.1
0°-90°	4436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4436.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2514	2514	2514	2514	2514	
5°	2523	2520	2510	2491	2471	240
15°	2429	2383	2406	2311	2350	683
25°	2184	2066	1884	1946	2037	1001
35°	1701	1570	1407	1433	1459	1057
45°	1087	1022	930	920	920	843
55°	682	636	532	473	467	613
65°	428	382	268	173	173	426
75°	235	196	95	39	29	251
85°	62	42	10	3	0	74
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°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2516.7	2529.8	2526.5	2523.3	2526.5	2523.3	2516.7	2516.7	2510.2	2510.2	2526.5
5°	2523.3	2529.8	2526.5	2523.3	2523.3	2526.5	2513.5	2513.5	2506.9	2503.7	2520.0
7.5°	2510.2	2520.0	2513.5	2513.5	2510.2	2513.5	2500.4	2500.4	2490.6	2487.4	2503.7
10°	2487.4	2500.4	2493.9	2493.9	2493.9	2487.4	2480.8	2477.6	2467.8	2464.5	2474.3
12.5°	2461.2	2471.0	2467.8	2461.2	2461.2	2461.2	2448.2	2444.9	2431.9	2425.3	2435.1
15°	2428.6	2435.1	2431.9	2428.6	2422.1	2422.1	2409.0	2402.5	2389.4	2376.4	2382.9
17.5°	2379.6	2389.4	2382.9	2379.6	2369.8	2369.8	2356.8	2350.3	2330.7	2317.6	2320.9
20°	2327.4	2330.7	2327.4	2320.9	2311.1	2307.8	2294.8	2281.7	2265.4	2249.1	2245.8
22.5°	2265.4	2268.7	2258.9	2252.3	2242.5	2239.3	2223.0	2213.2	2187.0	2167.5	2164.2
25°	2183.8	2187.0	2187.0	2170.7	2164.2	2157.7	2141.3	2125.0	2102.2	2076.1	2066.3
27.5°	2085.9	2095.7	2089.1	2072.8	2059.7	2056.5	2040.2	2027.1	1997.7	1974.9	1961.8
30°	1981.4	1978.1	1974.9	1965.1	1945.5	1942.2	1925.9	1909.6	1886.7	1857.4	1841.0
32.5°	1847.6	1847.6	1844.3	1834.5	1814.9	1808.4	1795.3	1775.8	1749.6	1726.8	1710.5
35°	1700.7	1703.9	1700.7	1681.1	1668.0	1661.5	1655.0	1632.1	1609.3	1583.2	1570.1
37.5°	1547.3	1537.5	1540.7	1524.4	1508.1	1514.6	1495.0	1485.2	1459.1	1439.5	1426.5
40°	1380.8	1387.3	1374.3	1367.7	1357.9	1348.1	1348.1	1331.8	1318.8	1295.9	1289.4
42.5°	1217.6	1227.4	1224.1	1217.6	1204.5	1207.8	1191.5	1184.9	1168.6	1158.8	1149.0
45°	1087.0	1087.0	1087.0	1080.5	1077.2	1070.7	1060.9	1051.1	1041.3	1028.2	1021.7
47.5°	959.7	959.7	963.0	956.4	949.9	946.6	940.1	940.1	923.8	910.7	904.2
50°	855.2	855.2	855.2	848.7	842.2	842.2	835.6	829.1	819.3	809.5	803.0
52.5°	760.6	760.6	760.6	754.0	750.8	747.5	744.2	741.0	727.9	721.4	714.9
55°	682.2	679.0	679.0	675.7	669.2	669.2	665.9	659.4	649.6	639.8	636.5
57.5°	603.9	607.2	603.9	603.9	597.4	597.4	590.8	587.6	577.8	571.2	564.7
60°	541.9	541.9	541.9	538.6	532.1	535.3	528.8	525.5	515.8	506.0	499.4
62.5°	479.8	483.1	483.1	479.8	473.3	473.3	470.1	466.8	457.0	447.2	437.4
65°	427.6	427.6	427.6	424.4	421.1	421.1	417.8	414.6	404.8	391.7	381.9
67.5°	378.7	375.4	375.4	375.4	372.1	368.9	365.6	362.3	352.5	342.7	329.7
70°	329.7	329.7	329.7	326.4	319.9	323.2	319.9	316.6	306.8	297.0	287.3
72.5°	284.0	284.0	280.7	277.5	277.5	274.2	274.2	270.9	261.1	248.1	238.3
75°	235.0	235.0	235.0	235.0	228.5	231.8	225.2	222.0	215.4	205.6	195.9
77.5°	192.6	192.6	192.6	189.3	186.1	186.1	182.8	179.5	169.7	163.2	150.2
80°	150.2	150.2	150.2	150.2	146.9	143.6	140.4	137.1	130.6	120.8	111.0
82.5°	111.0	111.0	107.7	107.7	107.7	104.5	101.2	97.9	91.4	84.9	78.3
85°	62.0	65.3	65.3	58.8	62.0	58.8	58.8	52.2	52.2	45.7	42.4
87.5°	22.8	19.6	19.6	19.6	19.6	19.6	19.6	16.3	16.3	16.3	13.1
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°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2513.5	2510.2	2523.3	2523.3	2503.7	2513.5	2516.7	2510.2	2510.2	2513.5	2503.7
5°	2506.9	2500.4	2513.5	2516.7	2497.2	2506.9	2510.2	2503.7	2506.9	2510.2	2497.2
7.5°	2484.1	2484.1	2493.9	2497.2	2477.6	2487.4	2487.4	2480.8	2484.1	2484.1	2474.3
10°	2461.2	2451.5	2461.2	2461.2	2444.9	2448.2	2454.7	2451.5	2464.5	2480.8	2480.8
12.5°	2418.8	2409.0	2425.3	2425.3	2415.5	2428.6	2444.9	2454.7	2467.8	2474.3	2454.7
15°	2366.6	2369.8	2399.2	2422.1	2412.3	2431.9	2448.2	2441.7	2425.3	2405.8	2376.4
17.5°	2298.0	2288.2	2314.4	2327.4	2314.4	2320.9	2333.9	2320.9	2294.8	2278.4	2239.3
20°	2219.7	2193.6	2193.6	2187.0	2164.2	2164.2	2160.9	2138.1	2128.3	2118.5	2102.2
22.5°	2131.6	2102.2	2092.4	2072.8	2053.2	2050.0	2040.2	2017.3	2004.3	1997.7	1978.1
25°	2030.4	2004.3	1987.9	1968.3	1939.0	1932.4	1922.6	1899.8	1893.3	1883.5	1867.2
27.5°	1925.9	1893.3	1870.4	1850.8	1824.7	1821.5	1801.9	1785.5	1772.5	1766.0	1752.9
30°	1805.1	1769.2	1752.9	1726.8	1707.2	1700.7	1684.4	1661.5	1651.7	1645.2	1635.4
32.5°	1671.3	1641.9	1625.6	1602.7	1576.6	1579.9	1560.3	1540.7	1534.2	1527.7	1517.9
35°	1540.7	1511.3	1491.8	1472.2	1455.9	1449.3	1436.3	1419.9	1410.2	1406.9	1400.4
37.5°	1397.1	1374.3	1357.9	1338.3	1325.3	1318.8	1312.2	1295.9	1289.4	1289.4	1276.3
40°	1256.7	1237.2	1224.1	1214.3	1198.0	1194.7	1188.2	1178.4	1175.1	1171.9	1162.1
42.5°	1129.4	1103.3	1093.5	1087.0	1077.2	1070.7	1067.4	1060.9	1057.6	1054.4	1044.6
45°	1008.7	985.8	976.0	969.5	959.7	956.4	953.2	943.4	936.8	930.3	927.0
47.5°	891.1	874.8	871.6	855.2	848.7	842.2	835.6	829.1	825.9	822.6	809.5
50°	789.9	780.2	763.8	754.0	747.5	744.2	731.2	721.4	718.1	714.9	705.1
52.5°	698.6	685.5	675.7	659.4	656.1	649.6	643.1	630.0	623.5	620.2	610.4
55°	616.9	607.2	594.1	581.0	571.2	568.0	558.2	545.1	538.6	532.1	525.5
57.5°	548.4	532.1	519.0	506.0	499.4	489.6	479.8	473.3	463.5	453.7	443.9
60°	483.1	470.1	453.7	440.7	434.1	427.6	414.6	404.8	395.0	385.2	375.4
62.5°	421.1	408.0	391.7	378.7	372.1	365.6	352.5	342.7	333.0	323.2	310.1
65°	365.6	352.5	339.5	326.4	319.9	313.4	300.3	287.3	277.5	267.7	254.6
67.5°	319.9	303.6	290.5	277.5	270.9	264.4	251.3	241.6	228.5	218.7	205.6
70°	270.9	257.9	248.1	235.0	228.5	222.0	208.9	195.9	186.1	176.3	163.2
72.5°	228.5	212.2	202.4	189.3	182.8	179.5	166.5	156.7	146.9	133.8	124.0
75°	182.8	169.7	156.7	146.9	140.4	137.1	124.0	114.2	104.5	94.7	84.9
77.5°	140.4	130.6	117.5	107.7	101.2	97.9	84.9	75.1	65.3	58.8	49.0
80°	104.5	91.4	84.9	75.1	71.8	65.3	58.8	49.0	42.4	32.6	26.1
82.5°	71.8	62.0	55.5	49.0	45.7	42.4	35.9	29.4	22.8	19.6	16.3
85°	39.2	32.6	29.4	26.1	22.8	22.8	19.6	16.3	13.1	9.8	6.5
87.5°	13.1	9.8	9.8	9.8	9.8	6.5	6.5	6.5	3.3	3.3	3.3
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°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2510.2	2510.2	2510.2	2506.9	2506.9	2506.9	2503.7	2516.7	2503.7	2500.4	2510.2
5°	2506.9	2500.4	2500.4	2500.4	2500.4	2497.2	2493.9	2500.4	2490.6	2487.4	2487.4
7.5°	2487.4	2484.1	2484.1	2480.8	2477.6	2474.3	2471.0	2474.3	2464.5	2461.2	2461.2
10°	2490.6	2484.1	2484.1	2474.3	2467.8	2458.0	2448.2	2451.5	2438.4	2428.6	2428.6
12.5°	2451.5	2435.1	2425.3	2415.5	2409.0	2405.8	2392.7	2399.2	2386.2	2382.9	2382.9
15°	2363.3	2343.7	2327.4	2320.9	2320.9	2314.4	2304.6	2317.6	2311.1	2314.4	2330.7
17.5°	2226.2	2216.4	2206.6	2203.4	2206.6	2213.2	2219.7	2239.3	2239.3	2249.1	2265.4
20°	2105.4	2098.9	2105.4	2105.4	2108.7	2121.8	2134.8	2151.1	2157.7	2167.5	2190.3
22.5°	1987.9	1987.9	1994.5	2004.3	2001.0	2023.8	2027.1	2056.5	2056.5	2076.1	2095.7
25°	1873.7	1873.7	1880.2	1883.5	1890.0	1903.1	1916.1	1939.0	1945.5	1965.1	1981.4
27.5°	1762.7	1759.4	1759.4	1762.7	1769.2	1785.5	1792.1	1818.2	1828.0	1841.0	1857.4
30°	1638.7	1635.4	1641.9	1648.4	1645.2	1661.5	1671.3	1690.9	1697.4	1710.5	1723.5
32.5°	1521.1	1521.1	1521.1	1527.7	1527.7	1540.7	1540.7	1563.6	1563.6	1573.4	1586.4
35°	1400.4	1400.4	1403.6	1406.9	1410.2	1413.4	1416.7	1429.7	1433.0	1436.3	1442.8
37.5°	1286.1	1282.9	1286.1	1286.1	1279.6	1292.6	1292.6	1305.7	1295.9	1305.7	1309.0
40°	1168.6	1168.6	1165.3	1165.3	1165.3	1171.9	1165.3	1175.1	1168.6	1175.1	1171.9
42.5°	1047.8	1047.8	1041.3	1047.8	1044.6	1044.6	1044.6	1051.1	1041.3	1047.8	1051.1
45°	927.0	923.8	923.8	920.5	920.5	920.5	923.8	923.8	920.5	927.0	927.0
47.5°	809.5	806.3	806.3	806.3	806.3	809.5	799.7	806.3	799.7	799.7	799.7
50°	708.3	705.1	701.8	698.6	695.3	695.3	692.0	692.0	685.5	682.2	679.0
52.5°	610.4	607.2	600.6	600.6	597.4	594.1	584.3	584.3	574.5	571.2	571.2
55°	522.3	512.5	509.2	502.7	502.7	496.2	489.6	483.1	473.3	466.8	466.8
57.5°	440.7	430.9	424.4	421.1	417.8	411.3	398.2	395.0	381.9	378.7	375.4
60°	368.9	359.1	349.3	342.7	339.5	329.7	316.6	310.1	303.6	293.8	284.0
62.5°	300.3	290.5	277.5	274.2	267.7	257.9	248.1	238.3	231.8	222.0	215.4
65°	241.6	231.8	222.0	215.4	208.9	199.1	189.3	179.5	173.0	169.7	166.5
67.5°	195.9	182.8	173.0	169.7	163.2	156.7	146.9	143.6	137.1	137.1	137.1
70°	153.4	143.6	133.8	130.6	127.3	120.8	114.2	114.2	114.2	114.2	114.2
72.5°	114.2	107.7	97.9	94.7	91.4	88.1	81.6	84.9	81.6	81.6	81.6
75°	71.8	65.3	58.8	55.5	52.2	49.0	45.7	42.4	39.2	35.9	35.9
77.5°	39.2	32.6	29.4	26.1	26.1	22.8	19.6	19.6	16.3	16.3	16.3
80°	22.8	19.6	16.3	13.1	13.1	9.8	9.8	9.8	9.8	6.5	6.5
82.5°	13.1	9.8	6.5	6.5	6.5	6.5	3.3	3.3	3.3	3.3	3.3
85°	6.5	6.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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: P252420

CATALOG NUMBER: LD6B60D010TE EU6B60709027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2493.9	2503.7	2493.9	2503.7	2503.7	2503.7	2503.7	2493.9
5°	2477.6	2484.1	2474.3	2480.8	2484.1	2480.8	2480.8	2471.0
7.5°	2448.2	2454.7	2444.9	2454.7	2458.0	2454.7	2451.5	2444.9
10°	2418.8	2422.1	2412.3	2418.8	2425.3	2425.3	2422.1	2412.3
12.5°	2373.1	2382.9	2373.1	2379.6	2386.2	2389.4	2389.4	2379.6
15°	2320.9	2337.2	2330.7	2340.5	2350.3	2353.5	2353.5	2350.3
17.5°	2268.7	2285.0	2275.2	2291.5	2301.3	2307.8	2311.1	2304.6
20°	2193.6	2213.2	2206.6	2219.7	2232.7	2242.5	2242.5	2232.7
22.5°	2095.7	2121.8	2118.5	2128.3	2144.6	2147.9	2154.4	2147.9
25°	1987.9	2007.5	2004.3	2014.0	2033.6	2033.6	2036.9	2036.9
27.5°	1863.9	1883.5	1880.2	1886.7	1899.8	1903.1	1906.3	1899.8
30°	1730.1	1739.8	1739.8	1749.6	1759.4	1762.7	1762.7	1752.9
32.5°	1583.2	1596.2	1602.7	1599.5	1609.3	1615.8	1612.5	1612.5
35°	1449.3	1452.6	1455.9	1459.1	1462.4	1468.9	1462.4	1459.1
37.5°	1305.7	1315.5	1309.0	1315.5	1322.0	1318.8	1315.5	1315.5
40°	1175.1	1178.4	1171.9	1178.4	1181.7	1181.7	1181.7	1175.1
42.5°	1044.6	1051.1	1044.6	1051.1	1051.1	1051.1	1051.1	1047.8
45°	914.0	920.5	920.5	923.8	923.8	920.5	920.5	920.5
47.5°	793.2	799.7	793.2	799.7	803.0	796.5	796.5	796.5
50°	679.0	675.7	675.7	679.0	679.0	679.0	679.0	675.7
52.5°	561.5	564.7	564.7	564.7	568.0	564.7	568.0	568.0
55°	460.3	460.3	460.3	463.5	460.3	460.3	463.5	466.8
57.5°	368.9	365.6	362.3	362.3	365.6	362.3	362.3	362.3
60°	284.0	280.7	277.5	277.5	277.5	277.5	277.5	274.2
62.5°	212.2	212.2	212.2	215.4	215.4	215.4	215.4	218.7
65°	169.7	169.7	169.7	169.7	169.7	169.7	169.7	173.0
67.5°	137.1	137.1	137.1	140.4	140.4	140.4	140.4	140.4
70°	114.2	114.2	117.5	114.2	117.5	117.5	117.5	117.5
72.5°	78.3	78.3	78.3	78.3	78.3	75.1	78.3	75.1
75°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	29.4
77.5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	0.0	0.0	0.0
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)