

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: P252597

Luminaire Tested: **LD6B40D010 EU6B30508030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30508030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

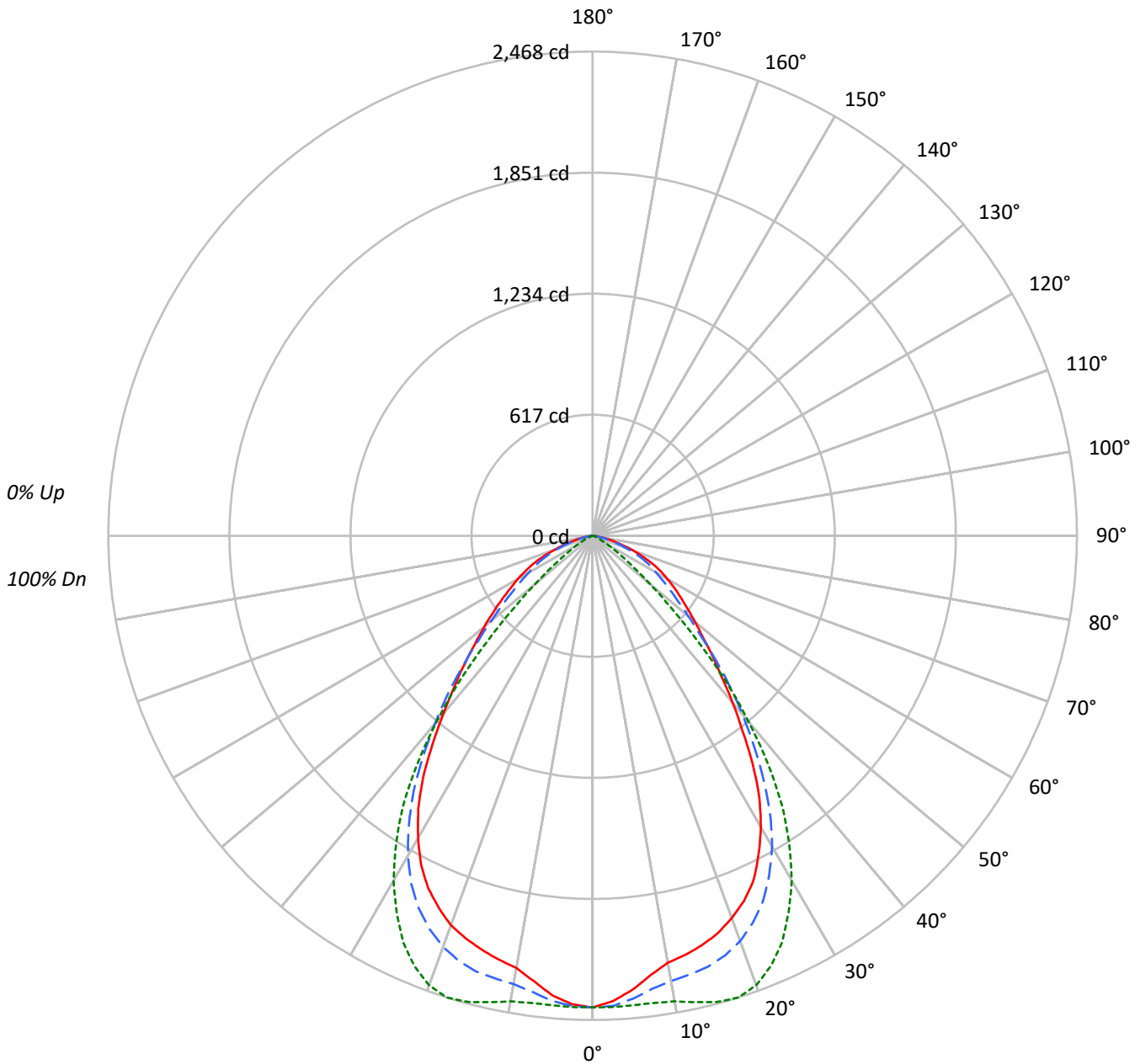
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50								
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46								
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42								
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	156845	156845	156845
5°	152166	157261	153986
10°	146373	159629	148215
15°	145857	166133	147546
20°	143944	169223	146652
25°	139644	164457	142646
30°	129182	152844	133995
35°	113334	134360	119976
40°	94440	105333	100598
45°	79495	69493	84874
50°	68825	38081	73057
55°	62275	20235	63856
60°	57294	10517	57294
65°	51915	5573	50634
70°	41889	3186	38703
75°	28736	2092	26619
80°	18785	1052	16719
85°	12501	2096	10405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	5.4
10°-20°	648.2	15.6
20°-30°	957.8	23.0
30°-40°	967.4	23.2
40°-50°	666.8	16.0
50°-60°	383.0	9.2
60°-70°	222.9	5.4
70°-80°	81.3	2.0
80°-90°	12.4	0.3
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°	1830.2	44.0
0°-40°	2797.6	67.2
0°-60°	3847.4	92.4
0°-90°	4164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2404	2404	2404	2404	2404	
5°	2324	2368	2401	2379	2351	218
15°	2160	2274	2460	2298	2184	608
25°	1940	2054	2285	2096	1982	884
35°	1423	1520	1687	1590	1506	883
45°	862	873	753	928	920	670
55°	548	481	178	500	561	493
65°	336	284	36	281	328	329
75°	114	92	8	89	106	128
85°	17	8	3	11	14	21
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°	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1
2.5°	2373.5	2376.3	2379.1	2376.3	2379.1	2390.2	2381.9	2387.4	2387.4	2390.2	2398.5
5°	2323.5	2323.5	2329.0	2326.3	2334.6	2345.7	2337.4	2345.7	2348.5	2354.1	2368.0
7.5°	2259.6	2259.6	2262.3	2262.3	2273.5	2284.6	2279.0	2290.1	2301.3	2312.4	2329.0
10°	2209.5	2215.1	2215.1	2217.9	2229.0	2242.9	2240.1	2254.0	2265.1	2281.8	2304.0
12.5°	2187.3	2190.1	2190.1	2195.6	2206.8	2220.7	2217.9	2231.8	2248.4	2267.9	2290.1
15°	2159.5	2165.1	2162.3	2167.8	2179.0	2192.9	2190.1	2204.0	2223.4	2242.9	2273.5
17.5°	2123.4	2126.2	2128.9	2128.9	2140.1	2151.2	2151.2	2165.1	2187.3	2209.5	2242.9
20°	2073.3	2078.9	2078.9	2081.7	2090.0	2106.7	2103.9	2117.8	2140.1	2162.3	2198.4
22.5°	2015.0	2017.8	2017.8	2020.5	2034.4	2042.8	2045.6	2056.7	2076.1	2101.1	2134.5
25°	1939.9	1942.7	1939.9	1948.3	1953.8	1970.5	1965.0	1978.9	2001.1	2020.5	2053.9
27.5°	1831.6	1837.1	1837.1	1839.9	1853.8	1867.7	1867.7	1881.6	1901.0	1914.9	1948.3
30°	1714.8	1723.2	1714.8	1728.7	1734.3	1745.4	1753.7	1762.1	1778.7	1798.2	1828.8
32.5°	1581.4	1578.6	1581.4	1587.0	1603.6	1612.0	1617.5	1625.9	1642.6	1659.2	1684.2
35°	1423.0	1428.6	1431.3	1442.5	1442.5	1456.3	1459.1	1464.7	1489.7	1500.8	1520.3
37.5°	1256.2	1261.8	1264.6	1270.1	1281.3	1286.8	1295.1	1303.5	1320.2	1339.6	1350.7
40°	1108.9	1108.9	1111.7	1117.3	1125.6	1128.4	1136.7	1147.8	1159.0	1175.6	1186.8
42.5°	970.0	972.8	970.0	975.5	983.9	995.0	992.2	1006.1	1008.9	1020.0	1028.3
45°	861.6	861.6	856.0	861.6	861.6	872.7	869.9	875.5	872.7	878.3	872.7
47.5°	758.7	761.5	758.7	761.5	761.5	761.5	764.3	758.7	761.5	753.2	736.5
50°	678.1	680.9	675.4	678.1	675.4	672.6	675.4	667.0	664.2	653.1	636.5
52.5°	608.7	605.9	603.1	603.1	603.1	600.3	597.5	589.2	580.9	569.8	550.3
55°	547.5	544.7	542.0	542.0	536.4	533.6	533.6	525.3	516.9	503.1	480.8
57.5°	491.9	489.2	486.4	486.4	483.6	478.0	478.0	469.7	458.6	441.9	422.5
60°	439.1	439.1	439.1	436.3	436.3	430.8	430.8	422.5	411.3	394.7	372.4
62.5°	391.9	389.1	389.1	389.1	389.1	386.3	383.5	378.0	366.9	350.2	330.7
65°	336.3	336.3	336.3	336.3	333.5	333.5	333.5	325.2	319.6	302.9	283.5
67.5°	275.1	275.1	275.1	275.1	272.4	275.1	275.1	269.6	264.0	247.4	230.7
70°	219.6	216.8	214.0	216.8	214.0	214.0	216.8	211.2	208.4	194.6	177.9
72.5°	161.2	164.0	161.2	161.2	161.2	158.4	161.2	158.4	152.9	141.7	130.6
75°	114.0	116.7	116.7	114.0	114.0	114.0	111.2	111.2	105.6	97.3	91.7
77.5°	77.8	77.8	77.8	77.8	75.0	75.0	75.0	72.3	69.5	63.9	58.4
80°	50.0	50.0	50.0	50.0	47.2	47.2	47.2	44.5	44.5	38.9	33.4
82.5°	30.6	30.6	30.6	30.6	30.6	30.6	27.8	27.8	25.0	22.2	19.5
85°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	13.9	13.9	11.1	8.3
87.5°	5.6	5.6	8.3	8.3	8.3	8.3	8.3	8.3	5.6	5.6	5.6
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°	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1
2.5°	2393.0	2395.7	2395.7	2395.7	2404.1	2406.9	2398.5	2390.2	2406.9	2404.1	2409.6
5°	2365.2	2373.5	2379.1	2381.9	2390.2	2395.7	2387.4	2384.6	2398.5	2401.3	2404.1
7.5°	2331.8	2345.7	2359.6	2365.2	2376.3	2381.9	2379.1	2379.1	2395.7	2401.3	2401.3
10°	2309.6	2329.0	2345.7	2359.6	2373.5	2381.9	2381.9	2384.6	2404.1	2409.6	2415.2
12.5°	2304.0	2329.0	2351.3	2370.7	2381.9	2395.7	2398.5	2406.9	2426.3	2434.7	2434.7
15°	2290.1	2323.5	2351.3	2376.3	2393.0	2409.6	2415.2	2431.9	2454.1	2459.7	2465.2
17.5°	2265.1	2298.5	2331.8	2362.4	2384.6	2398.5	2415.2	2431.9	2459.7	2468.0	2470.8
20°	2220.7	2259.6	2292.9	2323.5	2345.7	2365.2	2381.9	2401.3	2426.3	2437.4	2440.2
22.5°	2153.9	2192.9	2226.2	2259.6	2281.8	2298.5	2315.1	2337.4	2362.4	2373.5	2373.5
25°	2073.3	2109.5	2145.6	2170.6	2192.9	2212.3	2220.7	2245.7	2270.7	2284.6	2284.6
27.5°	1970.5	2003.9	2037.2	2065.0	2078.9	2095.6	2109.5	2131.7	2151.2	2162.3	2173.4
30°	1839.9	1873.2	1903.8	1931.6	1948.3	1965.0	1978.9	1995.5	2015.0	2028.9	2031.7
32.5°	1698.1	1725.9	1756.5	1784.3	1801.0	1806.5	1820.4	1837.1	1853.8	1864.9	1867.7
35°	1542.5	1562.0	1581.4	1606.4	1623.1	1623.1	1637.0	1648.1	1662.0	1687.0	1681.5
37.5°	1359.1	1386.9	1400.8	1409.1	1420.2	1431.3	1434.1	1448.0	1464.7	1470.2	1478.6
40°	1186.8	1195.1	1203.4	1203.4	1214.5	1214.5	1214.5	1217.3	1234.0	1236.8	1247.9
42.5°	1014.4	1014.4	1006.1	997.8	1000.5	997.8	983.9	983.9	992.2	1003.3	1003.3
45°	853.2	833.8	808.8	789.3	775.4	769.9	753.2	753.2	750.4	753.2	764.3
47.5°	717.1	683.7	642.0	603.1	589.2	578.1	553.1	542.0	536.4	539.2	544.7
50°	603.1	567.0	519.7	472.5	447.5	433.6	403.0	383.5	380.8	375.2	386.3
52.5°	519.7	475.3	425.2	369.6	344.6	322.4	289.0	272.4	261.3	261.3	264.0
55°	447.5	400.2	344.6	289.0	264.0	247.4	214.0	191.8	180.7	177.9	186.2
57.5°	386.3	341.9	286.3	230.7	205.7	186.2	152.9	133.4	125.1	119.5	122.3
60°	339.1	294.6	239.0	186.2	164.0	141.7	114.0	91.7	80.6	80.6	83.4
62.5°	294.6	252.9	202.9	152.9	133.4	114.0	83.4	63.9	55.6	52.8	55.6
65°	250.1	211.2	169.5	127.8	108.4	91.7	66.7	50.0	38.9	36.1	38.9
67.5°	202.9	172.3	136.2	102.8	86.2	72.3	50.0	36.1	27.8	25.0	27.8
70°	158.4	130.6	102.8	75.0	63.9	52.8	36.1	27.8	19.5	16.7	19.5
72.5°	114.0	94.5	72.3	52.8	44.5	36.1	25.0	19.5	13.9	11.1	13.9
75°	77.8	63.9	47.2	33.4	27.8	25.0	16.7	11.1	8.3	8.3	8.3
77.5°	50.0	38.9	30.6	22.2	16.7	13.9	8.3	5.6	5.6	5.6	5.6
80°	27.8	22.2	16.7	11.1	8.3	8.3	5.6	5.6	2.8	2.8	2.8
82.5°	16.7	11.1	8.3	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8
85°	8.3	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1
2.5°	2398.5	2401.3	2393.0	2404.1	2395.7	2406.9	2406.9	2395.7	2398.5	2393.0	2404.1
5°	2393.0	2393.0	2387.4	2395.7	2384.6	2395.7	2393.0	2373.5	2379.1	2368.0	2379.1
7.5°	2393.0	2387.4	2379.1	2387.4	2373.5	2381.9	2370.7	2351.3	2345.7	2331.8	2331.8
10°	2401.3	2393.0	2381.9	2384.6	2370.7	2373.5	2356.8	2329.0	2320.7	2304.0	2298.5
12.5°	2420.8	2412.4	2395.7	2401.3	2381.9	2381.9	2359.6	2326.3	2309.6	2287.4	2281.8
15°	2448.6	2434.7	2415.2	2418.0	2398.5	2387.4	2359.6	2320.7	2298.5	2267.9	2259.6
17.5°	2454.1	2440.2	2415.2	2415.2	2390.2	2376.3	2342.9	2298.5	2270.7	2240.1	2223.4
20°	2423.5	2409.6	2381.9	2379.1	2356.8	2337.4	2301.3	2256.8	2229.0	2195.6	2181.7
22.5°	2359.6	2342.9	2317.9	2315.1	2292.9	2281.8	2242.9	2198.4	2170.6	2137.3	2126.2
25°	2265.1	2256.8	2231.8	2229.0	2209.5	2195.6	2162.3	2120.6	2095.6	2062.2	2051.1
27.5°	2153.9	2145.6	2120.6	2120.6	2098.4	2090.0	2059.5	2020.5	2001.1	1970.5	1956.6
30°	2020.5	2009.4	1995.5	1992.7	1973.3	1965.0	1937.2	1901.0	1881.6	1856.6	1851.0
32.5°	1862.1	1853.8	1845.4	1842.7	1823.2	1814.9	1795.4	1759.3	1742.6	1720.4	1712.0
35°	1678.7	1673.1	1664.8	1662.0	1653.7	1645.3	1625.9	1598.1	1589.8	1573.1	1564.7
37.5°	1467.5	1473.0	1467.5	1467.5	1459.1	1461.9	1445.2	1428.6	1420.2	1409.1	1403.5
40°	1239.6	1250.7	1259.0	1259.0	1256.2	1267.4	1264.6	1250.7	1247.9	1242.3	1239.6
42.5°	1008.9	1014.4	1031.1	1042.2	1039.5	1067.2	1070.0	1081.1	1089.5	1083.9	1086.7
45°	767.1	783.8	806.0	817.1	831.0	867.1	886.6	908.8	928.3	939.4	936.6
47.5°	553.1	572.5	597.5	614.2	639.2	683.7	733.7	761.5	789.3	803.2	817.1
50°	400.2	419.7	450.2	475.3	491.9	553.1	605.9	642.0	672.6	692.0	705.9
52.5°	280.7	302.9	336.3	358.5	383.5	441.9	503.1	544.7	578.1	603.1	617.0
55°	194.6	219.6	250.1	272.4	300.2	361.3	419.7	464.1	500.3	522.5	539.2
57.5°	136.2	158.4	189.0	208.4	236.2	294.6	353.0	397.4	433.6	455.8	475.3
60°	91.7	114.0	144.5	164.0	186.2	244.6	297.4	344.6	378.0	400.2	419.7
62.5°	63.9	83.4	114.0	133.4	152.9	202.9	252.9	294.6	328.0	353.0	369.6
65°	50.0	66.7	91.7	108.4	127.8	169.5	211.2	247.4	280.7	305.7	316.8
67.5°	36.1	52.8	72.3	86.2	100.1	136.2	172.3	200.1	230.7	250.1	264.0
70°	25.0	36.1	52.8	63.9	75.0	102.8	130.6	155.6	177.9	191.8	202.9
72.5°	19.5	25.0	36.1	44.5	52.8	72.3	94.5	114.0	130.6	141.7	152.9
75°	11.1	16.7	25.0	30.6	36.1	50.0	63.9	77.8	88.9	97.3	102.8
77.5°	5.6	8.3	13.9	16.7	22.2	30.6	41.7	50.0	58.4	63.9	69.5
80°	5.6	5.6	8.3	8.3	11.1	16.7	22.2	27.8	33.4	38.9	41.7
82.5°	2.8	2.8	5.6	5.6	5.6	8.3	11.1	16.7	19.5	22.2	25.0
85°	2.8	2.8	2.8	2.8	2.8	5.6	5.6	8.3	11.1	13.9	13.9
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	5.6	5.6	5.6	8.3
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: P252597

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1	2404.1
2.5°	2395.7	2401.3	2398.5	2404.1	2395.7	2393.0	2398.5	2390.2
5°	2365.2	2368.0	2365.2	2365.2	2359.6	2354.1	2359.6	2351.3
7.5°	2317.9	2317.9	2309.6	2309.6	2298.5	2292.9	2292.9	2290.1
10°	2279.0	2270.7	2262.3	2265.1	2248.4	2242.9	2240.1	2237.3
12.5°	2259.6	2254.0	2240.1	2240.1	2223.4	2217.9	2215.1	2212.3
15°	2237.3	2226.2	2215.1	2212.3	2198.4	2192.9	2190.1	2184.5
17.5°	2198.4	2190.1	2176.2	2176.2	2162.3	2159.5	2153.9	2151.2
20°	2156.7	2145.6	2134.5	2134.5	2117.8	2117.8	2109.5	2112.3
22.5°	2098.4	2090.0	2078.9	2078.9	2065.0	2062.2	2053.9	2051.1
25°	2028.9	2017.8	2009.4	2006.6	1995.5	1990.0	1987.2	1981.6
27.5°	1937.2	1928.8	1920.5	1914.9	1901.0	1898.3	1889.9	1892.7
30°	1823.2	1817.7	1814.9	1809.3	1792.6	1787.1	1787.1	1778.7
32.5°	1698.1	1689.8	1684.2	1675.9	1662.0	1659.2	1650.9	1653.7
35°	1545.3	1534.2	1525.8	1528.6	1511.9	1509.2	1503.6	1506.4
37.5°	1386.9	1375.7	1364.6	1361.9	1348.0	1348.0	1339.6	1339.6
40°	1222.9	1211.8	1206.2	1206.2	1189.5	1192.3	1184.0	1181.2
42.5°	1075.6	1064.5	1061.7	1058.9	1050.6	1047.8	1039.5	1042.2
45°	936.6	933.8	933.8	928.3	919.9	917.2	919.9	919.9
47.5°	814.3	817.1	814.3	814.3	808.8	814.3	808.8	811.6
50°	711.5	717.1	717.1	717.1	714.3	717.1	717.1	719.8
52.5°	625.3	633.7	630.9	633.7	630.9	636.5	633.7	636.5
55°	550.3	555.9	558.6	561.4	561.4	561.4	561.4	561.4
57.5°	480.8	489.2	491.9	494.7	494.7	500.3	494.7	494.7
60°	425.2	433.6	436.3	439.1	439.1	441.9	436.3	439.1
62.5°	375.2	383.5	383.5	386.3	386.3	386.3	380.8	383.5
65°	325.2	328.0	330.7	330.7	328.0	328.0	325.2	328.0
67.5°	269.6	272.4	269.6	269.6	266.8	266.8	261.3	264.0
70°	208.4	208.4	211.2	208.4	205.7	208.4	205.7	202.9
72.5°	155.6	155.6	155.6	152.9	152.9	150.1	152.9	152.9
75°	105.6	105.6	108.4	108.4	108.4	108.4	105.6	105.6
77.5°	69.5	69.5	69.5	69.5	72.3	69.5	69.5	69.5
80°	44.5	44.5	47.2	47.2	44.5	44.5	44.5	44.5
82.5°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
85°	16.7	16.7	16.7	16.7	13.9	13.9	13.9	13.9
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	5.6	5.6
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)