

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: P252751

Luminaire Tested: **LD6B70D010TE EU6B60709730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252751
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: LD6B70D010TE EU6B60709730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 4940.0 lumens
Efficiency: N/A
Efficacy: 62.2 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

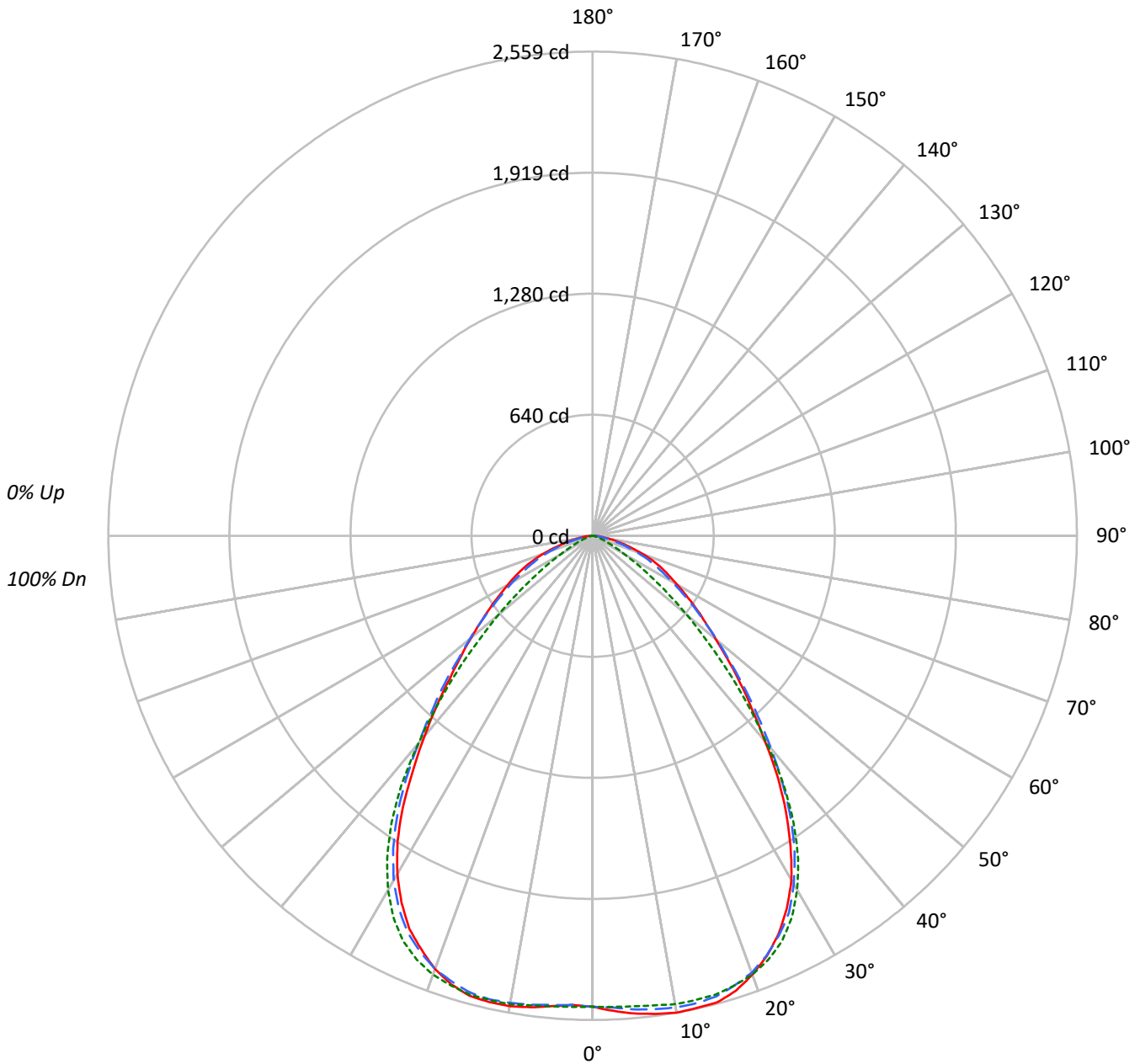
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	162377	162377	162377
5°	165991	163456	163456
10°	169546	166512	167214
15°	172381	169531	170003
20°	171333	171333	169133
25°	167250	170295	164968
30°	158321	162833	155405
35°	141870	147477	139067
40°	120526	122025	117529
45°	101989	93215	98418
50°	86110	65739	85034
55°	75674	42449	74877
60°	67067	25261	67524
65°	61950	15221	61950
70°	53715	8736	52380
75°	42600	5319	39928
80°	31747	3982	30432
85°	28969	2620	26349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	4.9
10°-20°	709.2	14.4
20°-30°	1066.6	21.6
30°-40°	1121.4	22.7
40°-50°	837.7	17.0
50°-60°	521.5	10.6
60°-70°	296.6	6.0
70°-80°	122.1	2.5
80°-90°	25.2	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°	2015.4	40.8
0°-40°	3136.8	63.5
0°-60°	4496.0	91.0
0°-90°	4940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4940.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2489	2489	2489	2489	2489	
5°	2535	2514	2496	2489	2496	243
15°	2552	2521	2510	2499	2517	718
25°	2323	2330	2366	2313	2292	1064
35°	1781	1827	1852	1799	1746	1105
45°	1105	1130	1010	1109	1067	857
55°	665	651	373	641	658	598
65°	401	359	99	359	401	395
75°	169	134	21	130	158	184
85°	39	25	4	21	35	43
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°	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9
2.5°	2513.5	2510.0	2513.5	2506.5	2503.0	2503.0	2506.5	2499.4	2495.9	2499.4	2495.9
5°	2534.6	2527.6	2531.1	2527.6	2520.6	2520.6	2524.1	2513.5	2513.5	2517.0	2513.5
7.5°	2548.7	2548.7	2548.7	2541.7	2538.2	2534.6	2541.7	2531.1	2527.6	2527.6	2524.1
10°	2559.3	2555.8	2559.3	2552.2	2545.2	2541.7	2548.7	2541.7	2534.6	2541.7	2531.1
12.5°	2555.8	2555.8	2555.8	2552.2	2545.2	2541.7	2548.7	2538.2	2534.6	2538.2	2531.1
15°	2552.2	2541.7	2545.2	2541.7	2531.1	2531.1	2534.6	2524.1	2517.0	2527.6	2520.6
17.5°	2520.6	2513.5	2517.0	2510.0	2503.0	2499.4	2503.0	2499.4	2492.4	2499.4	2492.4
20°	2467.8	2467.8	2471.3	2464.2	2457.2	2453.7	2460.7	2453.7	2446.6	2457.2	2457.2
22.5°	2404.4	2404.4	2404.4	2400.9	2397.3	2397.3	2397.3	2393.8	2390.3	2397.3	2400.9
25°	2323.4	2319.9	2323.4	2326.9	2323.4	2319.9	2323.4	2323.4	2316.4	2330.5	2330.5
27.5°	2221.3	2221.3	2228.4	2224.9	2224.9	2221.3	2228.4	2228.4	2224.9	2235.4	2246.0
30°	2101.6	2094.6	2101.6	2101.6	2105.2	2105.2	2108.7	2108.7	2108.7	2119.2	2126.3
32.5°	1946.7	1950.3	1960.8	1957.3	1953.8	1964.3	1964.3	1971.4	1974.9	1981.9	1985.5
35°	1781.3	1784.8	1784.8	1788.3	1795.4	1788.3	1805.9	1802.4	1805.9	1820.0	1827.1
37.5°	1605.3	1594.7	1612.3	1605.3	1608.8	1608.8	1615.8	1619.4	1629.9	1647.5	1647.5
40°	1415.2	1418.7	1425.7	1429.3	1432.8	1432.8	1432.8	1443.3	1446.9	1468.0	1464.5
42.5°	1249.7	1249.7	1256.8	1260.3	1260.3	1260.3	1260.3	1270.8	1277.9	1284.9	1292.0
45°	1105.4	1094.8	1101.9	1101.9	1108.9	1105.4	1112.4	1119.5	1123.0	1133.5	1130.0
47.5°	968.1	964.6	968.1	971.6	968.1	971.6	975.1	978.7	982.2	982.2	982.2
50°	848.4	848.4	851.9	855.4	855.4	855.4	855.4	859.0	859.0	866.0	859.0
52.5°	749.8	753.4	753.4	749.8	753.4	753.4	756.9	756.9	753.4	753.4	742.8
55°	665.3	661.8	665.3	661.8	665.3	665.3	661.8	661.8	658.3	654.8	651.3
57.5°	584.4	584.4	584.4	584.4	580.9	584.4	580.9	577.3	577.3	570.3	559.7
60°	514.0	514.0	514.0	514.0	514.0	510.4	514.0	510.4	503.4	496.4	482.3
62.5°	454.1	450.6	454.1	450.6	450.6	447.1	447.1	443.6	436.5	429.5	415.4
65°	401.3	404.8	401.3	401.3	397.8	394.3	394.3	390.8	380.2	373.2	359.1
67.5°	345.0	341.5	341.5	341.5	338.0	338.0	338.0	330.9	323.9	313.3	299.2
70°	281.6	281.6	281.6	278.1	278.1	274.6	274.6	271.1	264.0	257.0	239.4
72.5°	221.8	221.8	221.8	214.7	218.3	214.7	214.7	207.7	204.2	193.6	183.1
75°	169.0	169.0	165.5	165.5	161.9	158.4	158.4	154.9	151.4	144.3	133.8
77.5°	123.2	123.2	123.2	119.7	116.2	112.7	112.7	109.1	105.6	102.1	95.0
80°	84.5	84.5	84.5	84.5	81.0	77.4	77.4	73.9	73.9	70.4	63.4
82.5°	56.3	56.3	56.3	56.3	52.8	52.8	52.8	49.3	45.8	45.8	38.7
85°	38.7	38.7	35.2	35.2	35.2	35.2	31.7	31.7	28.2	24.6	24.6
87.5°	21.1	21.1	21.1	21.1	17.6	17.6	17.6	17.6	14.1	14.1	10.6
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°	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9
2.5°	2506.5	2506.5	2503.0	2492.4	2495.9	2492.4	2495.9	2492.4	2481.8	2492.4	2481.8
5°	2520.6	2524.1	2517.0	2503.0	2506.5	2503.0	2503.0	2499.4	2488.9	2495.9	2488.9
7.5°	2534.6	2531.1	2527.6	2513.5	2517.0	2513.5	2513.5	2506.5	2495.9	2503.0	2492.4
10°	2541.7	2541.7	2534.6	2520.6	2520.6	2517.0	2520.6	2517.0	2503.0	2513.5	2506.5
12.5°	2541.7	2538.2	2538.2	2520.6	2524.1	2520.6	2524.1	2517.0	2506.5	2513.5	2510.0
15°	2531.1	2531.1	2527.6	2510.0	2513.5	2513.5	2517.0	2510.0	2499.4	2510.0	2503.0
17.5°	2510.0	2510.0	2506.5	2492.4	2499.4	2499.4	2503.0	2495.9	2485.4	2492.4	2492.4
20°	2467.8	2471.3	2471.3	2460.7	2467.8	2467.8	2471.3	2467.8	2464.2	2467.8	2460.7
22.5°	2418.5	2425.5	2425.5	2415.0	2422.0	2422.0	2432.6	2429.0	2422.0	2425.5	2422.0
25°	2344.5	2351.6	2358.6	2351.6	2358.6	2358.6	2369.2	2365.7	2358.6	2365.7	2355.1
27.5°	2260.1	2263.6	2270.6	2263.6	2274.1	2270.6	2281.2	2277.7	2267.1	2277.7	2274.1
30°	2140.4	2154.4	2165.0	2154.4	2165.0	2165.0	2172.0	2168.5	2165.0	2161.5	2161.5
32.5°	2006.6	2020.7	2020.7	2017.2	2024.2	2024.2	2027.7	2020.7	2017.2	2020.7	2024.2
35°	1841.1	1848.2	1855.2	1851.7	1855.2	1858.7	1855.2	1858.7	1848.2	1851.7	1851.7
37.5°	1661.6	1668.6	1668.6	1658.1	1665.1	1665.1	1658.1	1658.1	1651.0	1658.1	1644.0
40°	1471.5	1464.5	1468.0	1460.9	1453.9	1453.9	1450.4	1436.3	1429.3	1432.8	1436.3
42.5°	1284.9	1284.9	1274.4	1256.8	1239.2	1239.2	1228.6	1221.6	1207.5	1214.5	1211.0
45°	1126.5	1108.9	1094.8	1066.7	1056.1	1049.1	1031.5	1013.9	1006.8	1010.3	1006.8
47.5°	975.1	961.1	925.8	887.1	876.6	866.0	844.9	823.8	816.7	809.7	809.7
50°	848.4	823.8	785.0	742.8	725.2	707.6	679.4	658.3	644.2	647.7	647.7
52.5°	732.2	704.1	658.3	605.5	584.4	563.3	538.6	514.0	503.4	499.9	499.9
55°	630.1	598.5	552.7	492.8	475.2	450.6	418.9	390.8	376.7	373.2	380.2
57.5°	538.6	510.4	457.6	397.8	376.7	352.0	320.4	295.7	278.1	274.6	278.1
60°	464.7	426.0	380.2	323.9	295.7	274.6	239.4	218.3	200.7	193.6	197.1
62.5°	390.8	355.6	309.8	253.5	232.3	211.2	179.5	154.9	140.8	137.3	140.8
65°	334.4	299.2	257.0	207.7	186.6	165.5	137.3	112.7	102.1	98.6	102.1
67.5°	278.1	246.4	211.2	165.5	147.9	130.3	102.1	84.5	70.4	66.9	70.4
70°	225.3	197.1	161.9	130.3	112.7	98.6	77.4	59.8	49.3	45.8	49.3
72.5°	169.0	147.9	123.2	95.0	84.5	73.9	56.3	42.2	35.2	31.7	35.2
75°	123.2	105.6	88.0	66.9	59.8	52.8	38.7	28.2	24.6	21.1	24.6
77.5°	84.5	73.9	59.8	45.8	38.7	35.2	24.6	21.1	17.6	14.1	14.1
80°	56.3	49.3	38.7	31.7	28.2	24.6	17.6	14.1	10.6	10.6	10.6
82.5°	35.2	28.2	24.6	17.6	14.1	14.1	10.6	7.0	7.0	7.0	7.0
85°	21.1	17.6	14.1	10.6	7.0	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	10.6	7.0	7.0	3.5	3.5	3.5	3.5	3.5	0.0	0.0	3.5
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°	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9
2.5°	2488.9	2481.8	2481.8	2485.4	2488.9	2492.4	2485.4	2481.8	2481.8	2492.4	2485.4
5°	2488.9	2485.4	2485.4	2485.4	2492.4	2495.9	2488.9	2485.4	2488.9	2499.4	2495.9
7.5°	2499.4	2492.4	2495.9	2495.9	2499.4	2506.5	2499.4	2495.9	2499.4	2510.0	2503.0
10°	2506.5	2499.4	2503.0	2499.4	2510.0	2513.5	2506.5	2503.0	2506.5	2520.6	2517.0
12.5°	2510.0	2506.5	2506.5	2503.0	2513.5	2517.0	2510.0	2506.5	2510.0	2520.6	2517.0
15°	2503.0	2499.4	2499.4	2499.4	2506.5	2513.5	2503.0	2499.4	2499.4	2510.0	2506.5
17.5°	2488.9	2481.8	2481.8	2481.8	2485.4	2488.9	2478.3	2474.8	2471.3	2481.8	2478.3
20°	2464.2	2457.2	2450.2	2450.2	2453.7	2453.7	2446.6	2436.1	2436.1	2439.6	2432.6
22.5°	2418.5	2415.0	2407.9	2404.4	2411.4	2407.9	2393.8	2383.3	2379.7	2383.3	2376.2
25°	2355.1	2348.1	2344.5	2341.0	2344.5	2341.0	2326.9	2312.9	2312.9	2312.9	2302.3
27.5°	2267.1	2260.1	2256.5	2256.5	2260.1	2253.0	2238.9	2224.9	2217.8	2217.8	2207.3
30°	2154.4	2154.4	2150.9	2147.4	2143.9	2143.9	2122.8	2108.7	2101.6	2105.2	2098.1
32.5°	2017.2	2013.6	2010.1	1999.6	2003.1	1999.6	1981.9	1971.4	1960.8	1953.8	1950.3
35°	1841.1	1841.1	1837.6	1837.6	1837.6	1834.1	1816.5	1805.9	1798.9	1795.4	1784.8
37.5°	1647.5	1644.0	1640.5	1640.5	1640.5	1640.5	1629.9	1619.4	1619.4	1615.8	1608.8
40°	1429.3	1432.8	1436.3	1432.8	1443.3	1453.9	1439.8	1432.8	1429.3	1439.8	1425.7
42.5°	1218.0	1214.5	1232.1	1235.6	1235.6	1253.2	1256.8	1260.3	1256.8	1263.8	1263.8
45°	1013.9	1010.3	1027.9	1035.0	1052.6	1073.7	1084.3	1101.9	1108.9	1115.9	1108.9
47.5°	820.2	834.3	848.4	866.0	880.1	915.3	936.4	954.0	961.1	971.6	971.6
50°	658.3	672.4	697.0	711.1	728.7	771.0	806.2	830.8	844.9	855.4	851.9
52.5°	506.9	531.6	563.3	577.3	602.0	651.3	690.0	718.1	735.8	746.3	749.8
55°	390.8	411.9	443.6	464.7	489.3	542.1	591.4	623.1	640.7	654.8	661.8
57.5°	288.7	313.3	348.5	366.1	394.3	454.1	496.4	535.1	556.2	573.8	577.3
60°	211.2	235.9	267.5	288.7	316.8	376.7	426.0	461.2	485.8	499.9	506.9
62.5°	151.4	176.0	207.7	228.8	253.5	306.3	355.6	390.8	415.4	433.0	443.6
65°	109.1	133.8	165.5	183.1	204.2	253.5	299.2	334.4	359.1	380.2	387.2
67.5°	81.0	98.6	126.7	144.3	165.5	204.2	242.9	274.6	299.2	316.8	323.9
70°	59.8	73.9	98.6	109.1	123.2	158.4	190.1	218.3	239.4	253.5	260.5
72.5°	42.2	52.8	70.4	81.0	91.5	119.7	144.3	165.5	179.5	193.6	200.7
75°	28.2	35.2	49.3	56.3	63.4	84.5	102.1	119.7	130.3	140.8	144.3
77.5°	17.6	24.6	35.2	38.7	45.8	56.3	70.4	81.0	88.0	95.0	102.1
80°	10.6	14.1	21.1	24.6	28.2	38.7	45.8	52.8	59.8	66.9	70.4
82.5°	7.0	10.6	14.1	14.1	17.6	21.1	28.2	35.2	38.7	42.2	45.8
85°	3.5	3.5	7.0	7.0	10.6	10.6	14.1	17.6	21.1	24.6	28.2
87.5°	3.5	3.5	3.5	3.5	7.0	7.0	10.6	10.6	10.6	14.1	14.1
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: P252751

CATALOG NUMBER: LD6B70D010TE EU6B60709730 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9
2.5°	2478.3	2488.9	2478.3	2485.4	2481.8	2481.8	2478.3	2481.8
5°	2488.9	2503.0	2488.9	2499.4	2492.4	2492.4	2492.4	2495.9
7.5°	2499.4	2513.5	2503.0	2513.5	2510.0	2506.5	2506.5	2513.5
10°	2510.0	2520.6	2513.5	2524.1	2520.6	2517.0	2517.0	2524.1
12.5°	2510.0	2524.1	2517.0	2527.6	2524.1	2520.6	2520.6	2524.1
15°	2499.4	2517.0	2506.5	2517.0	2513.5	2510.0	2510.0	2517.0
17.5°	2467.8	2481.8	2474.8	2481.8	2481.8	2478.3	2481.8	2485.4
20°	2425.5	2436.1	2429.0	2436.1	2436.1	2429.0	2432.6	2436.1
22.5°	2365.7	2376.2	2369.2	2376.2	2372.7	2369.2	2369.2	2365.7
25°	2291.7	2305.8	2295.3	2302.3	2295.3	2288.2	2288.2	2291.7
27.5°	2200.2	2210.8	2196.7	2203.7	2196.7	2189.6	2189.6	2186.1
30°	2080.5	2084.0	2073.5	2080.5	2073.5	2070.0	2062.9	2062.9
32.5°	1936.2	1939.7	1929.1	1929.1	1922.1	1922.1	1908.0	1918.6
35°	1767.2	1770.7	1767.2	1763.7	1753.1	1749.6	1746.1	1746.1
37.5°	1591.2	1591.2	1580.6	1577.1	1570.1	1563.0	1566.5	1556.0
40°	1411.7	1408.1	1397.6	1401.1	1397.6	1387.0	1383.5	1380.0
42.5°	1242.7	1242.7	1232.1	1235.6	1228.6	1225.1	1214.5	1218.0
45°	1094.8	1094.8	1084.3	1084.3	1080.7	1070.2	1073.7	1066.7
47.5°	961.1	961.1	957.5	957.5	947.0	943.5	943.5	943.5
50°	844.9	844.9	844.9	844.9	841.4	837.8	834.3	837.8
52.5°	746.3	753.4	749.8	749.8	746.3	742.8	739.3	739.3
55°	658.3	661.8	661.8	665.3	661.8	658.3	661.8	658.3
57.5°	580.9	587.9	587.9	587.9	587.9	587.9	584.4	580.9
60°	514.0	517.5	517.5	521.0	521.0	521.0	517.5	517.5
62.5°	447.1	454.1	457.6	457.6	461.2	457.6	457.6	457.6
65°	394.3	401.3	404.8	401.3	404.8	404.8	401.3	401.3
67.5°	330.9	338.0	338.0	338.0	338.0	341.5	338.0	338.0
70°	267.5	274.6	271.1	274.6	274.6	274.6	274.6	274.6
72.5°	204.2	207.7	211.2	211.2	214.7	211.2	211.2	211.2
75°	147.9	154.9	154.9	154.9	154.9	158.4	158.4	158.4
77.5°	105.6	109.1	109.1	112.7	112.7	112.7	112.7	116.2
80°	73.9	73.9	77.4	77.4	81.0	81.0	81.0	81.0
82.5°	49.3	52.8	52.8	52.8	52.8	52.8	52.8	52.8
85°	28.2	31.7	31.7	31.7	31.7	35.2	35.2	35.2
87.5°	17.6	17.6	17.6	17.6	17.6	17.6	14.1	14.1
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)