

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: P252519

Luminaire Tested: **LD6B60D010TE EU6B60708030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252519
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 EU6B60708030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5071.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

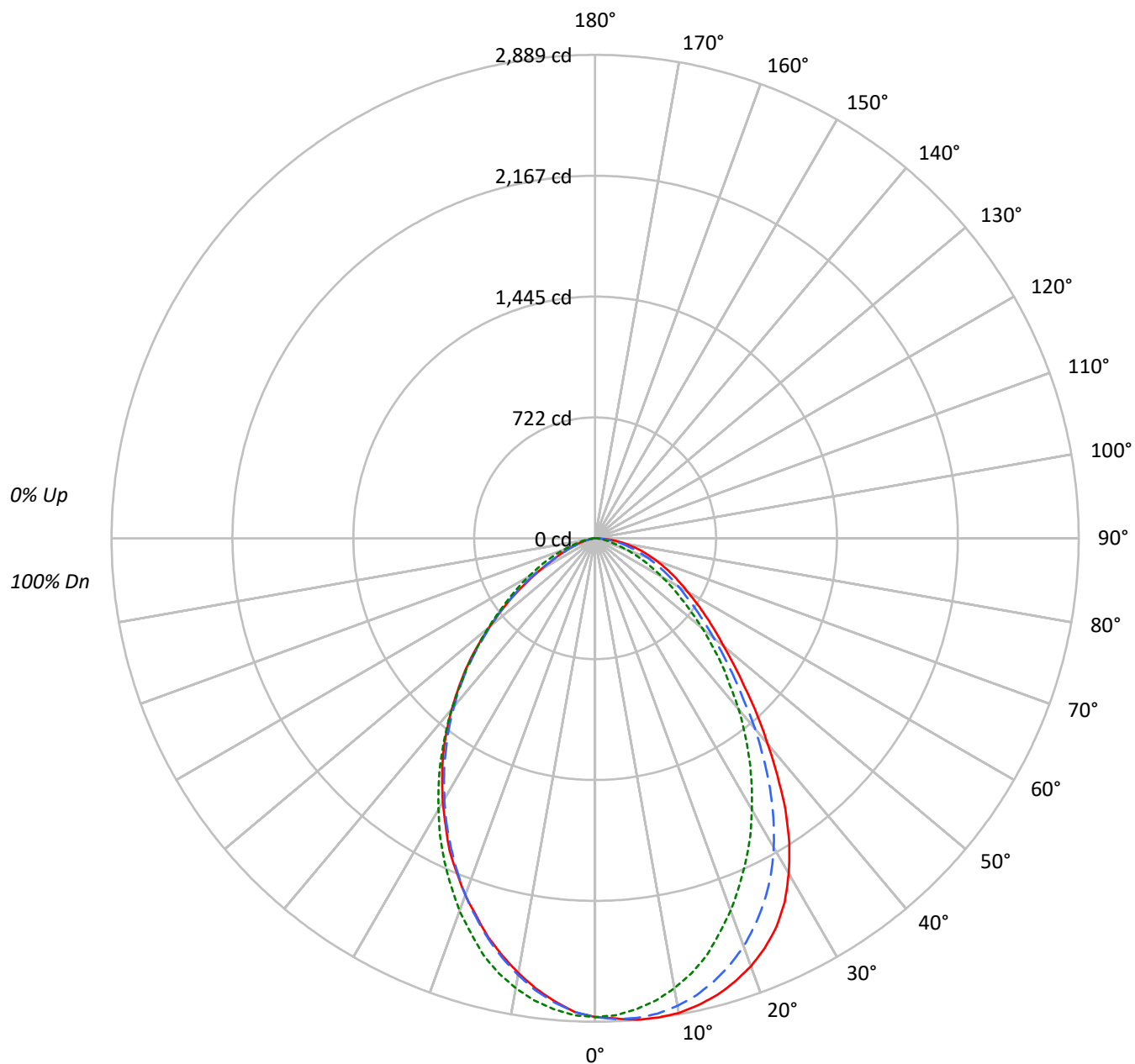
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	186640	186640	186640
5°	189174	185009	181891
10°	190838	180835	174780
15°	190806	174171	166653
20°	188961	164412	157517
25°	184483	153307	148160
30°	174208	140979	137092
35°	157910	127845	126268
40°	136376	113696	113364
45°	116945	98981	99710
50°	101628	84689	83481
55°	91291	71408	66893
60°	82947	60139	49257
65°	77896	49677	36185
70°	74278	38646	26533
75°	71109	28055	18023
80°	67176	19424	11947
85°	59510	11902	5914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	5.3
10°-20°	732.9	14.5
20°-30°	1017.5	20.1
30°-40°	1053.9	20.8
40°-50°	866.1	17.1
50°-60°	595.2	11.7
60°-70°	342.2	6.7
70°-80°	157.3	3.1
80°-90°	38.3	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°	2018.0	39.8
0°-40°	3071.9	60.6
0°-60°	4533.2	89.4
0°-90°	5071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5071.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2861	2861	2861	2861	2861	
5°	2889	2877	2825	2785	2777	275
15°	2825	2742	2579	2475	2467	796
25°	2563	2392	2130	2038	2058	1173
35°	1983	1820	1605	1558	1585	1230
45°	1268	1172	1073	1061	1081	987
55°	803	727	628	592	588	722
65°	505	441	322	226	234	502
75°	282	222	111	72	72	298
85°	80	56	16	8	8	89
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°	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8
2.5°	2872.7	2896.6	2880.7	2876.7	2884.6	2884.6	2884.6	2872.7	2880.7	2868.7	2876.7
5°	2888.6	2908.5	2892.6	2884.6	2892.6	2896.6	2884.6	2876.7	2888.6	2872.7	2876.7
7.5°	2888.6	2908.5	2892.6	2888.6	2892.6	2892.6	2888.6	2872.7	2880.7	2864.8	2864.8
10°	2880.7	2896.6	2880.7	2872.7	2876.7	2872.7	2872.7	2852.8	2856.8	2837.0	2837.0
12.5°	2856.8	2876.7	2856.8	2848.9	2848.9	2848.9	2837.0	2821.1	2825.0	2801.2	2797.2
15°	2825.0	2840.9	2821.1	2813.1	2813.1	2809.1	2801.2	2777.4	2777.4	2753.5	2741.6
17.5°	2777.4	2793.2	2777.4	2765.4	2761.5	2753.5	2745.6	2721.7	2713.8	2686.0	2674.0
20°	2721.7	2733.6	2717.8	2705.8	2697.9	2689.9	2674.0	2650.2	2642.3	2614.4	2594.6
22.5°	2650.2	2666.1	2642.3	2630.3	2622.4	2610.5	2594.6	2570.7	2558.8	2523.1	2499.2
25°	2562.8	2570.7	2550.9	2539.0	2523.1	2515.1	2503.2	2471.4	2459.5	2419.8	2391.9
27.5°	2451.5	2459.5	2435.6	2427.7	2407.8	2399.9	2384.0	2356.2	2340.3	2300.6	2272.7
30°	2312.5	2320.4	2304.5	2292.6	2276.7	2260.8	2248.9	2221.1	2197.2	2157.5	2133.7
32.5°	2157.5	2169.4	2153.5	2137.6	2109.8	2113.8	2093.9	2066.1	2046.3	2010.5	1982.7
35°	1982.7	1990.6	1970.8	1966.8	1950.9	1935.0	1915.1	1895.3	1883.4	1843.6	1819.8
37.5°	1788.0	1807.9	1788.0	1772.1	1764.2	1752.2	1740.3	1712.5	1704.6	1680.7	1648.9
40°	1601.3	1613.2	1601.3	1585.4	1573.4	1573.4	1557.5	1541.7	1521.8	1497.9	1486.0
42.5°	1434.4	1426.4	1422.5	1414.5	1398.6	1394.6	1390.7	1370.8	1358.9	1335.0	1315.2
45°	1267.5	1271.5	1263.5	1259.5	1247.6	1239.7	1231.7	1215.8	1211.9	1188.0	1172.1
47.5°	1128.4	1124.5	1116.5	1116.5	1108.6	1100.6	1092.7	1080.7	1076.8	1056.9	1041.0
50°	1001.3	1005.3	1001.3	997.3	985.4	981.4	973.5	965.5	957.6	937.7	921.8
52.5°	898.0	894.0	890.0	890.0	878.1	874.1	866.2	858.2	850.3	830.4	818.5
55°	802.6	802.6	798.6	794.7	782.7	778.8	774.8	766.9	754.9	739.0	727.1
57.5°	715.2	715.2	711.2	707.3	699.3	699.3	691.4	683.4	675.5	659.6	643.7
60°	635.7	639.7	635.7	631.8	623.8	623.8	619.8	607.9	603.9	584.1	572.2
62.5°	568.2	568.2	568.2	564.2	560.2	552.3	552.3	540.4	532.4	520.5	504.6
65°	504.6	504.6	504.6	500.6	492.7	488.7	484.7	476.8	468.9	456.9	441.0
67.5°	445.0	445.0	445.0	441.0	433.1	429.1	425.1	421.2	409.3	397.3	381.4
70°	389.4	389.4	385.4	381.4	377.5	373.5	369.5	361.6	353.6	337.7	325.8
72.5°	333.8	333.8	333.8	325.8	321.8	321.8	313.9	309.9	302.0	286.1	274.2
75°	282.1	278.1	278.1	274.2	270.2	266.2	262.2	258.3	246.3	238.4	222.5
77.5°	230.5	230.5	226.5	222.5	222.5	218.5	214.6	206.6	202.6	190.7	178.8
80°	178.8	178.8	178.8	178.8	174.8	170.9	170.9	162.9	158.9	147.0	139.1
82.5°	135.1	131.1	131.1	131.1	127.1	123.2	123.2	119.2	115.2	107.3	99.3
85°	79.5	75.5	75.5	75.5	71.5	71.5	67.5	67.5	63.6	55.6	55.6
87.5°	23.8	23.8	27.8	27.8	23.8	23.8	23.8	23.8	23.8	19.9	19.9
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°	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8
2.5°	2868.7	2880.7	2864.8	2860.8	2876.7	2868.7	2864.8	2856.8	2860.8	2852.8	2840.9
5°	2864.8	2880.7	2860.8	2848.9	2868.7	2856.8	2848.9	2840.9	2840.9	2825.0	2817.1
7.5°	2852.8	2860.8	2840.9	2829.0	2840.9	2829.0	2821.1	2809.1	2805.2	2785.3	2773.4
10°	2821.1	2829.0	2805.2	2789.3	2801.2	2785.3	2773.4	2761.5	2753.5	2729.7	2713.8
12.5°	2777.4	2781.3	2753.5	2733.6	2741.6	2729.7	2709.8	2693.9	2686.0	2662.1	2642.3
15°	2717.8	2721.7	2689.9	2662.1	2670.1	2654.2	2630.3	2614.4	2602.5	2578.7	2550.9
17.5°	2646.2	2642.3	2606.5	2578.7	2582.7	2562.8	2539.0	2515.1	2499.2	2471.4	2451.5
20°	2566.8	2554.8	2515.1	2483.3	2487.3	2463.5	2435.6	2411.8	2391.9	2368.1	2340.3
22.5°	2467.4	2451.5	2415.8	2376.0	2380.0	2360.2	2320.4	2300.6	2280.7	2248.9	2225.1
25°	2360.2	2336.3	2300.6	2260.8	2260.8	2237.0	2205.2	2181.4	2161.5	2129.7	2101.9
27.5°	2233.0	2221.1	2173.4	2141.6	2137.6	2113.8	2086.0	2058.2	2034.3	2006.5	1978.7
30°	2093.9	2074.1	2038.3	2002.6	1994.6	1974.7	1946.9	1915.1	1899.2	1871.4	1847.6
32.5°	1946.9	1927.1	1887.3	1851.6	1847.6	1831.7	1807.9	1776.1	1760.2	1740.3	1724.4
35°	1780.1	1772.1	1732.4	1704.6	1704.6	1688.7	1664.8	1637.0	1625.1	1605.2	1585.4
37.5°	1621.1	1609.2	1573.4	1549.6	1549.6	1529.7	1505.9	1494.0	1482.1	1466.2	1454.2
40°	1454.2	1446.3	1418.5	1394.6	1398.6	1382.7	1366.8	1350.9	1343.0	1335.0	1323.1
42.5°	1299.3	1291.3	1271.5	1251.6	1251.6	1239.7	1223.8	1211.9	1203.9	1192.0	1188.0
45°	1160.2	1148.3	1132.4	1112.5	1112.5	1100.6	1092.7	1084.7	1080.7	1072.8	1060.9
47.5°	1025.1	1017.2	1001.3	981.4	981.4	981.4	965.5	953.6	953.6	945.7	941.7
50°	909.9	898.0	886.1	870.2	870.2	862.2	850.3	838.4	838.4	834.4	826.5
52.5°	802.6	794.7	778.8	762.9	762.9	754.9	743.0	739.0	735.1	723.1	719.2
55°	711.2	703.3	691.4	671.5	667.5	663.5	651.6	643.7	639.7	627.8	627.8
57.5°	627.8	619.8	600.0	588.1	584.1	576.1	564.2	556.3	552.3	544.3	536.4
60°	556.3	544.3	528.5	512.6	508.6	500.6	488.7	480.8	476.8	460.9	453.0
62.5°	488.7	476.8	460.9	445.0	441.0	433.1	417.2	409.3	401.3	385.4	377.5
65°	425.1	413.2	397.3	381.4	373.5	369.5	353.6	341.7	333.8	321.8	305.9
67.5°	365.5	353.6	337.7	317.9	317.9	305.9	294.0	282.1	270.2	258.3	246.3
70°	309.9	298.0	282.1	266.2	262.2	254.3	242.4	226.5	218.5	202.6	190.7
72.5°	258.3	246.3	230.5	214.6	210.6	202.6	190.7	174.8	162.9	151.0	139.1
75°	210.6	198.7	182.8	170.9	166.9	158.9	147.0	131.1	119.2	111.3	99.3
77.5°	166.9	155.0	143.0	131.1	127.1	119.2	107.3	99.3	87.4	79.5	67.5
80°	127.1	119.2	107.3	99.3	95.4	87.4	79.5	67.5	59.6	51.7	47.7
82.5°	91.4	83.4	75.5	63.6	63.6	55.6	51.7	43.7	35.8	31.8	27.8
85°	51.7	43.7	39.7	35.8	31.8	31.8	27.8	23.8	19.9	15.9	15.9
87.5°	15.9	15.9	11.9	11.9	11.9	11.9	7.9	7.9	7.9	7.9	7.9
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°	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8
2.5°	2840.9	2844.9	2837.0	2844.9	2837.0	2840.9	2833.0	2840.9	2833.0	2840.9	2825.0
5°	2813.1	2813.1	2801.2	2809.1	2801.2	2805.2	2789.3	2793.2	2785.3	2793.2	2777.4
7.5°	2765.4	2769.4	2749.5	2757.5	2745.6	2745.6	2733.6	2737.6	2725.7	2729.7	2717.8
10°	2709.8	2705.8	2686.0	2693.9	2678.0	2678.0	2666.1	2666.1	2650.2	2654.2	2638.3
12.5°	2630.3	2626.4	2602.5	2610.5	2594.6	2594.6	2582.7	2582.7	2566.8	2574.7	2558.8
15°	2539.0	2535.0	2511.1	2515.1	2499.2	2499.2	2483.3	2487.3	2475.4	2483.3	2467.4
17.5°	2435.6	2431.7	2407.8	2411.8	2391.9	2395.9	2384.0	2380.0	2372.1	2376.0	2364.1
20°	2328.4	2320.4	2296.6	2300.6	2292.6	2280.7	2272.7	2276.7	2268.8	2276.7	2264.8
22.5°	2217.1	2201.2	2181.4	2181.4	2173.4	2173.4	2161.5	2169.4	2153.5	2165.5	2157.5
25°	2090.0	2078.0	2062.2	2070.1	2054.2	2054.2	2042.3	2046.3	2038.3	2046.3	2038.3
27.5°	1966.8	1958.8	1935.0	1943.0	1931.0	1935.0	1923.1	1927.1	1923.1	1931.0	1923.1
30°	1835.7	1831.7	1815.8	1815.8	1811.8	1807.9	1803.9	1803.9	1799.9	1811.8	1803.9
32.5°	1712.5	1700.6	1684.7	1696.6	1676.7	1688.7	1680.7	1688.7	1680.7	1688.7	1684.7
35°	1585.4	1581.4	1561.5	1565.5	1561.5	1561.5	1557.5	1557.5	1557.5	1569.5	1569.5
37.5°	1450.3	1446.3	1434.4	1438.3	1430.4	1426.4	1426.4	1434.4	1434.4	1442.3	1442.3
40°	1319.1	1323.1	1311.2	1311.2	1307.2	1307.2	1307.2	1315.2	1311.2	1319.1	1315.2
42.5°	1188.0	1188.0	1176.1	1180.1	1176.1	1180.1	1180.1	1188.0	1188.0	1192.0	1188.0
45°	1064.9	1064.9	1060.9	1064.9	1056.9	1060.9	1056.9	1064.9	1060.9	1064.9	1064.9
47.5°	941.7	941.7	941.7	937.7	937.7	937.7	937.7	937.7	933.7	941.7	937.7
50°	826.5	830.4	826.5	826.5	822.5	826.5	822.5	822.5	814.5	818.5	818.5
52.5°	723.1	723.1	715.2	715.2	715.2	711.2	711.2	711.2	707.3	707.3	699.3
55°	623.8	623.8	615.9	615.9	611.9	607.9	603.9	603.9	592.0	592.0	580.1
57.5°	532.4	528.5	516.5	516.5	508.6	504.6	500.6	496.7	488.7	480.8	476.8
60°	449.0	441.0	433.1	429.1	421.2	413.2	405.3	397.3	389.4	385.4	381.4
62.5°	369.5	357.6	349.7	345.7	337.7	325.8	317.9	309.9	302.0	298.0	290.1
65°	298.0	286.1	274.2	270.2	262.2	254.3	242.4	234.4	226.5	222.5	222.5
67.5°	234.4	222.5	206.6	206.6	198.7	190.7	182.8	174.8	170.9	174.8	174.8
70°	174.8	166.9	155.0	151.0	143.0	135.1	131.1	131.1	131.1	135.1	131.1
72.5°	131.1	119.2	111.3	107.3	103.3	99.3	99.3	99.3	95.4	99.3	99.3
75°	91.4	83.4	75.5	75.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
77.5°	63.6	55.6	51.7	51.7	51.7	47.7	47.7	47.7	47.7	47.7	47.7
80°	39.7	39.7	35.8	35.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
82.5°	23.8	23.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
85°	11.9	11.9	11.9	11.9	11.9	7.9	7.9	7.9	7.9	7.9	7.9
87.5°	4.0	4.0	4.0	4.0	4.0	7.9	7.9	7.9	7.9	7.9	7.9
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: P252519

CATALOG NUMBER: LD6B60D010TE EU6B60708030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8	2860.8
2.5°	2825.0	2837.0	2821.1	2833.0	2829.0	2825.0	2817.1	2833.0
5°	2777.4	2781.3	2765.4	2781.3	2777.4	2769.4	2761.5	2777.4
7.5°	2709.8	2721.7	2701.9	2717.8	2713.8	2705.8	2697.9	2713.8
10°	2634.3	2646.2	2630.3	2642.3	2642.3	2634.3	2622.4	2638.3
12.5°	2550.9	2558.8	2542.9	2558.8	2554.8	2546.9	2542.9	2554.8
15°	2459.5	2471.4	2455.5	2467.4	2463.5	2459.5	2455.5	2467.4
17.5°	2360.2	2372.1	2360.2	2372.1	2372.1	2360.2	2356.2	2364.1
20°	2260.8	2268.8	2256.8	2268.8	2264.8	2264.8	2256.8	2268.8
22.5°	2149.6	2161.5	2153.5	2161.5	2157.5	2157.5	2153.5	2161.5
25°	2038.3	2050.2	2038.3	2050.2	2046.3	2046.3	2038.3	2058.2
27.5°	1927.1	1935.0	1923.1	1939.0	1935.0	1927.1	1931.0	1935.0
30°	1807.9	1815.8	1807.9	1819.8	1819.8	1819.8	1811.8	1819.8
32.5°	1688.7	1700.6	1688.7	1700.6	1696.6	1696.6	1692.6	1700.6
35°	1569.5	1573.4	1565.5	1577.4	1577.4	1581.4	1573.4	1585.4
37.5°	1446.3	1450.3	1446.3	1450.3	1458.2	1446.3	1454.2	1458.2
40°	1319.1	1327.1	1323.1	1327.1	1327.1	1331.1	1327.1	1331.1
42.5°	1192.0	1199.9	1192.0	1203.9	1199.9	1199.9	1203.9	1203.9
45°	1060.9	1072.8	1064.9	1072.8	1076.8	1072.8	1072.8	1080.7
47.5°	937.7	945.7	941.7	945.7	945.7	945.7	945.7	953.6
50°	814.5	818.5	818.5	822.5	822.5	826.5	818.5	822.5
52.5°	691.4	699.3	699.3	699.3	695.3	699.3	699.3	699.3
55°	580.1	584.1	576.1	584.1	584.1	580.1	580.1	588.1
57.5°	472.8	472.8	472.8	472.8	472.8	468.9	472.8	472.8
60°	373.5	377.5	373.5	373.5	373.5	373.5	369.5	377.5
62.5°	290.1	290.1	286.1	290.1	290.1	290.1	294.0	294.0
65°	226.5	230.5	226.5	230.5	230.5	230.5	230.5	234.4
67.5°	178.8	178.8	178.8	178.8	178.8	178.8	178.8	178.8
70°	135.1	135.1	135.1	139.1	135.1	135.1	135.1	139.1
72.5°	99.3	99.3	99.3	99.3	99.3	99.3	103.3	103.3
75°	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
77.5°	47.7	47.7	47.7	51.7	47.7	51.7	47.7	47.7
80°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
82.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
85°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
87.5°	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0
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)