

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: P252505

Luminaire Tested: **LD6B50D010TE EU6B30508027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252505
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: LD6B50D010TE EU6B30508027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4341.0 lumens
Efficiency: N/A
Efficacy: 73.9 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

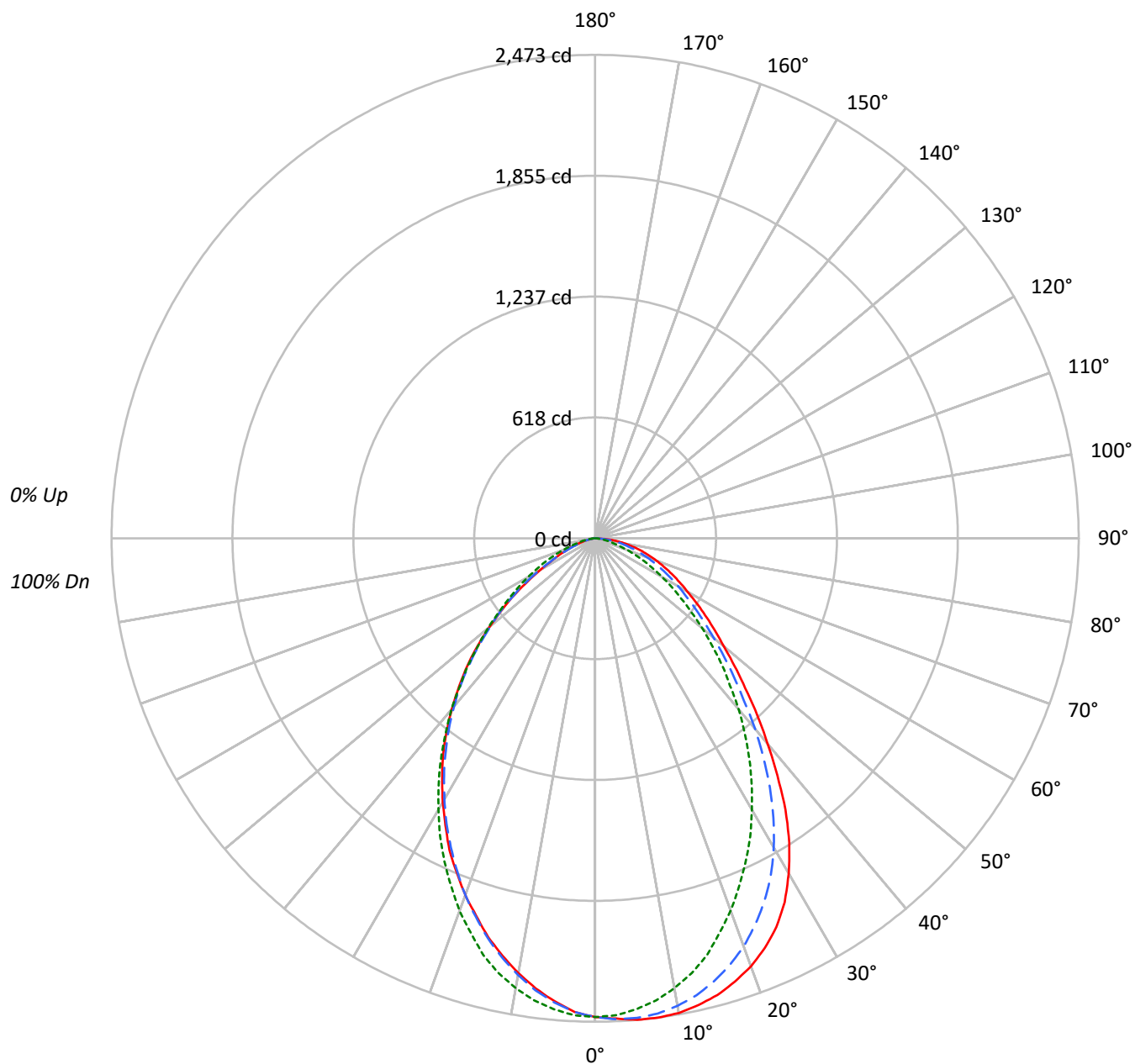
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
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°	159774	159774	159774
5°	161943	158381	155702
10°	163365	154800	149619
15°	163344	149099	142662
20°	161759	140744	134842
25°	157928	131236	126830
30°	149130	120684	117354
35°	135180	109439	108085
40°	116736	97336	97038
45°	100107	84735	85363
50°	86993	72499	71464
55°	78153	61126	57259
60°	71008	51488	42158
65°	66689	42530	30983
70°	63577	33095	22699
75°	60875	23997	15427
80°	57521	16606	10219
85°	50902	10180	5090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	5.3
10°-20°	627.4	14.5
20°-30°	871.0	20.1
30°-40°	902.2	20.8
40°-50°	741.4	17.1
50°-60°	509.5	11.7
60°-70°	292.9	6.7
70°-80°	134.6	3.1
80°-90°	32.8	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°	1727.5	39.8
0°-40°	2629.7	60.6
0°-60°	3880.6	89.4
0°-90°	4341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2449	2449	2449	2449	2449	
5°	2473	2463	2418	2384	2378	236
15°	2418	2347	2208	2119	2112	681
25°	2194	2048	1823	1745	1762	1004
35°	1697	1558	1374	1333	1357	1053
45°	1085	1003	918	908	925	845
55°	687	622	537	507	503	618
65°	432	378	276	194	201	430
75°	242	190	95	61	61	255
85°	68	48	14	7	7	76
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°	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0
2.5°	2459.2	2479.6	2466.0	2462.6	2469.4	2469.4	2469.4	2459.2	2466.0	2455.8	2462.6
5°	2472.8	2489.8	2476.2	2469.4	2476.2	2479.6	2469.4	2462.6	2472.8	2459.2	2462.6
7.5°	2472.8	2489.8	2476.2	2472.8	2476.2	2476.2	2472.8	2459.2	2466.0	2452.4	2452.4
10°	2466.0	2479.6	2466.0	2459.2	2462.6	2459.2	2459.2	2442.2	2445.6	2428.6	2428.6
12.5°	2445.6	2462.6	2445.6	2438.8	2438.8	2438.8	2428.6	2415.0	2418.4	2397.9	2394.5
15°	2418.4	2432.0	2415.0	2408.2	2408.2	2404.7	2397.9	2377.5	2377.5	2357.1	2346.9
17.5°	2377.5	2391.1	2377.5	2367.3	2363.9	2357.1	2350.3	2329.9	2323.1	2299.3	2289.1
20°	2329.9	2340.1	2326.5	2316.3	2309.5	2302.7	2289.1	2268.7	2261.9	2238.1	2221.1
22.5°	2268.7	2282.3	2261.9	2251.7	2244.9	2234.7	2221.1	2200.7	2190.5	2159.9	2139.4
25°	2193.9	2200.7	2183.7	2173.5	2159.9	2153.0	2142.8	2115.6	2105.4	2071.4	2047.6
27.5°	2098.6	2105.4	2085.0	2078.2	2061.2	2054.4	2040.8	2017.0	2003.4	1969.4	1945.6
30°	1979.6	1986.4	1972.8	1962.6	1949.0	1935.4	1925.2	1901.4	1880.9	1846.9	1826.5
32.5°	1846.9	1857.1	1843.5	1829.9	1806.1	1809.5	1792.5	1768.7	1751.7	1721.1	1697.3
35°	1697.3	1704.1	1687.1	1683.7	1670.1	1656.5	1639.4	1622.4	1612.2	1578.2	1557.8
37.5°	1530.6	1547.6	1530.6	1517.0	1510.2	1500.0	1489.8	1466.0	1459.2	1438.8	1411.6
40°	1370.7	1380.9	1370.7	1357.1	1346.9	1346.9	1333.3	1319.7	1302.7	1282.3	1272.1
42.5°	1227.9	1221.1	1217.7	1210.9	1197.3	1193.9	1190.5	1173.5	1163.3	1142.9	1125.8
45°	1085.0	1088.4	1081.6	1078.2	1068.0	1061.2	1054.4	1040.8	1037.4	1017.0	1003.4
47.5°	966.0	962.6	955.8	955.8	949.0	942.2	935.4	925.2	921.8	904.8	891.2
50°	857.1	860.5	857.1	853.7	843.5	840.1	833.3	826.5	819.7	802.7	789.1
52.5°	768.7	765.3	761.9	761.9	751.7	748.3	741.5	734.7	727.9	710.9	700.7
55°	687.1	687.1	683.7	680.3	670.1	666.7	663.3	656.5	646.3	632.6	622.4
57.5°	612.2	612.2	608.8	605.4	598.6	598.6	591.8	585.0	578.2	564.6	551.0
60°	544.2	547.6	544.2	540.8	534.0	534.0	530.6	520.4	517.0	500.0	489.8
62.5°	486.4	486.4	486.4	483.0	479.6	472.8	472.8	462.6	455.8	445.6	432.0
65°	432.0	432.0	432.0	428.6	421.8	418.4	415.0	408.2	401.4	391.2	377.5
67.5°	381.0	381.0	381.0	377.5	370.7	367.3	363.9	360.5	350.3	340.1	326.5
70°	333.3	333.3	329.9	326.5	323.1	319.7	316.3	309.5	302.7	289.1	278.9
72.5°	285.7	285.7	285.7	278.9	275.5	275.5	268.7	265.3	258.5	244.9	234.7
75°	241.5	238.1	238.1	234.7	231.3	227.9	224.5	221.1	210.9	204.1	190.5
77.5°	197.3	197.3	193.9	190.5	190.5	187.1	183.7	176.9	173.5	163.3	153.1
80°	153.1	153.1	153.1	153.1	149.7	146.3	146.3	139.5	136.1	125.8	119.0
82.5°	115.6	112.2	112.2	112.2	108.8	105.4	105.4	102.0	98.6	91.8	85.0
85°	68.0	64.6	64.6	64.6	61.2	61.2	57.8	57.8	54.4	47.6	47.6
87.5°	20.4	20.4	23.8	23.8	20.4	20.4	20.4	20.4	20.4	17.0	17.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0
2.5°	2455.8	2466.0	2452.4	2449.0	2462.6	2455.8	2452.4	2445.6	2449.0	2442.2	2432.0
5°	2452.4	2466.0	2449.0	2438.8	2455.8	2445.6	2438.8	2432.0	2432.0	2418.4	2411.6
7.5°	2442.2	2449.0	2432.0	2421.8	2432.0	2421.8	2415.0	2404.7	2401.3	2384.3	2374.1
10°	2415.0	2421.8	2401.3	2387.7	2397.9	2384.3	2374.1	2363.9	2357.1	2336.7	2323.1
12.5°	2377.5	2380.9	2357.1	2340.1	2346.9	2336.7	2319.7	2306.1	2299.3	2278.9	2261.9
15°	2326.5	2329.9	2302.7	2278.9	2285.7	2272.1	2251.7	2238.1	2227.9	2207.5	2183.7
17.5°	2265.3	2261.9	2231.3	2207.5	2210.9	2193.9	2173.5	2153.0	2139.4	2115.6	2098.6
20°	2197.3	2187.1	2153.0	2125.8	2129.2	2108.8	2085.0	2064.6	2047.6	2027.2	2003.4
22.5°	2112.2	2098.6	2068.0	2034.0	2037.4	2020.4	1986.4	1969.4	1952.4	1925.2	1904.8
25°	2020.4	2000.0	1969.4	1935.4	1935.4	1915.0	1887.7	1867.3	1850.3	1823.1	1799.3
27.5°	1911.6	1901.4	1860.5	1833.3	1829.9	1809.5	1785.7	1761.9	1741.5	1717.7	1693.9
30°	1792.5	1775.5	1744.9	1714.3	1707.5	1690.5	1666.7	1639.4	1625.8	1602.0	1581.6
32.5°	1666.7	1649.7	1615.6	1585.0	1581.6	1568.0	1547.6	1520.4	1506.8	1489.8	1476.2
35°	1523.8	1517.0	1483.0	1459.2	1459.2	1445.6	1425.2	1401.4	1391.1	1374.1	1357.1
37.5°	1387.7	1377.5	1346.9	1326.5	1326.5	1309.5	1289.1	1278.9	1268.7	1255.1	1244.9
40°	1244.9	1238.1	1214.3	1193.9	1197.3	1183.7	1170.1	1156.5	1149.7	1142.9	1132.6
42.5°	1112.2	1105.4	1088.4	1071.4	1071.4	1061.2	1047.6	1037.4	1030.6	1020.4	1017.0
45°	993.2	983.0	969.4	952.4	952.4	942.2	935.4	928.6	925.2	918.4	908.2
47.5°	877.5	870.7	857.1	840.1	840.1	840.1	826.5	816.3	816.3	809.5	806.1
50°	778.9	768.7	758.5	744.9	744.9	738.1	727.9	717.7	717.7	714.3	707.5
52.5°	687.1	680.3	666.7	653.1	653.1	646.3	636.1	632.6	629.2	619.0	615.6
55°	608.8	602.0	591.8	574.8	571.4	568.0	557.8	551.0	547.6	537.4	537.4
57.5°	537.4	530.6	513.6	503.4	500.0	493.2	483.0	476.2	472.8	466.0	459.2
60°	476.2	466.0	452.4	438.8	435.4	428.6	418.4	411.6	408.2	394.6	387.8
62.5°	418.4	408.2	394.6	381.0	377.5	370.7	357.1	350.3	343.5	329.9	323.1
65°	363.9	353.7	340.1	326.5	319.7	316.3	302.7	292.5	285.7	275.5	261.9
67.5°	312.9	302.7	289.1	272.1	272.1	261.9	251.7	241.5	231.3	221.1	210.9
70°	265.3	255.1	241.5	227.9	224.5	217.7	207.5	193.9	187.1	173.5	163.3
72.5°	221.1	210.9	197.3	183.7	180.3	173.5	163.3	149.7	139.5	129.3	119.0
75°	180.3	170.1	156.5	146.3	142.9	136.1	125.8	112.2	102.0	95.2	85.0
77.5°	142.9	132.7	122.4	112.2	108.8	102.0	91.8	85.0	74.8	68.0	57.8
80°	108.8	102.0	91.8	85.0	81.6	74.8	68.0	57.8	51.0	44.2	40.8
82.5°	78.2	71.4	64.6	54.4	54.4	47.6	44.2	37.4	30.6	27.2	23.8
85°	44.2	37.4	34.0	30.6	27.2	27.2	23.8	20.4	17.0	13.6	13.6
87.5°	13.6	13.6	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	6.8
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°	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0
2.5°	2432.0	2435.4	2428.6	2435.4	2428.6	2432.0	2425.2	2432.0	2425.2	2432.0	2418.4
5°	2408.2	2408.2	2397.9	2404.7	2397.9	2401.3	2387.7	2391.1	2384.3	2391.1	2377.5
7.5°	2367.3	2370.7	2353.7	2360.5	2350.3	2350.3	2340.1	2343.5	2333.3	2336.7	2326.5
10°	2319.7	2316.3	2299.3	2306.1	2292.5	2292.5	2282.3	2282.3	2268.7	2272.1	2258.5
12.5°	2251.7	2248.3	2227.9	2234.7	2221.1	2221.1	2210.9	2210.9	2197.3	2204.1	2190.5
15°	2173.5	2170.1	2149.6	2153.0	2139.4	2139.4	2125.8	2129.2	2119.0	2125.8	2112.2
17.5°	2085.0	2081.6	2061.2	2064.6	2047.6	2051.0	2040.8	2037.4	2030.6	2034.0	2023.8
20°	1993.2	1986.4	1966.0	1969.4	1962.6	1952.4	1945.6	1949.0	1942.2	1949.0	1938.8
22.5°	1897.9	1884.3	1867.3	1867.3	1860.5	1860.5	1850.3	1857.1	1843.5	1853.7	1846.9
25°	1789.1	1778.9	1765.3	1772.1	1758.5	1758.5	1748.3	1751.7	1744.9	1751.7	1744.9
27.5°	1683.7	1676.9	1656.5	1663.3	1653.1	1656.5	1646.2	1649.7	1646.2	1653.1	1646.2
30°	1571.4	1568.0	1554.4	1554.4	1551.0	1547.6	1544.2	1544.2	1540.8	1551.0	1544.2
32.5°	1466.0	1455.8	1442.2	1452.4	1435.4	1445.6	1438.8	1445.6	1438.8	1445.6	1442.2
35°	1357.1	1353.7	1336.7	1340.1	1336.7	1336.7	1333.3	1333.3	1333.3	1343.5	1343.5
37.5°	1241.5	1238.1	1227.9	1231.3	1224.5	1221.1	1221.1	1227.9	1227.9	1234.7	1234.7
40°	1129.2	1132.6	1122.4	1122.4	1119.0	1119.0	1119.0	1125.8	1122.4	1129.2	1125.8
42.5°	1017.0	1017.0	1006.8	1010.2	1006.8	1010.2	1010.2	1017.0	1017.0	1020.4	1017.0
45°	911.6	911.6	908.2	911.6	904.8	908.2	904.8	911.6	908.2	911.6	911.6
47.5°	806.1	806.1	806.1	802.7	802.7	802.7	802.7	802.7	799.3	806.1	802.7
50°	707.5	710.9	707.5	707.5	704.1	707.5	704.1	704.1	697.3	700.7	700.7
52.5°	619.0	619.0	612.2	612.2	612.2	608.8	608.8	608.8	605.4	605.4	598.6
55°	534.0	534.0	527.2	527.2	523.8	520.4	517.0	517.0	506.8	506.8	496.6
57.5°	455.8	452.4	442.2	442.2	435.4	432.0	428.6	425.2	418.4	411.6	408.2
60°	384.4	377.5	370.7	367.3	360.5	353.7	346.9	340.1	333.3	329.9	326.5
62.5°	316.3	306.1	299.3	295.9	289.1	278.9	272.1	265.3	258.5	255.1	248.3
65°	255.1	244.9	234.7	231.3	224.5	217.7	207.5	200.7	193.9	190.5	190.5
67.5°	200.7	190.5	176.9	176.9	170.1	163.3	156.5	149.7	146.3	149.7	149.7
70°	149.7	142.9	132.7	129.3	122.4	115.6	112.2	112.2	112.2	115.6	112.2
72.5°	112.2	102.0	95.2	91.8	88.4	85.0	85.0	85.0	81.6	85.0	85.0
75°	78.2	71.4	64.6	64.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2
77.5°	54.4	47.6	44.2	44.2	44.2	40.8	40.8	40.8	40.8	40.8	40.8
80°	34.0	34.0	30.6	30.6	27.2	27.2	27.2	27.2	27.2	27.2	27.2
82.5°	20.4	20.4	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	10.2	10.2	10.2	10.2	10.2	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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: P252505

CATALOG NUMBER: LD6B50D010TE EU6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0	2449.0
2.5°	2418.4	2428.6	2415.0	2425.2	2421.8	2418.4	2411.6	2425.2
5°	2377.5	2380.9	2367.3	2380.9	2377.5	2370.7	2363.9	2377.5
7.5°	2319.7	2329.9	2312.9	2326.5	2323.1	2316.3	2309.5	2323.1
10°	2255.1	2265.3	2251.7	2261.9	2261.9	2255.1	2244.9	2258.5
12.5°	2183.7	2190.5	2176.9	2190.5	2187.1	2180.3	2176.9	2187.1
15°	2105.4	2115.6	2102.0	2112.2	2108.8	2105.4	2102.0	2112.2
17.5°	2020.4	2030.6	2020.4	2030.6	2030.6	2020.4	2017.0	2023.8
20°	1935.4	1942.2	1932.0	1942.2	1938.8	1938.8	1932.0	1942.2
22.5°	1840.1	1850.3	1843.5	1850.3	1846.9	1846.9	1843.5	1850.3
25°	1744.9	1755.1	1744.9	1755.1	1751.7	1751.7	1744.9	1761.9
27.5°	1649.7	1656.5	1646.2	1659.9	1656.5	1649.7	1653.1	1656.5
30°	1547.6	1554.4	1547.6	1557.8	1557.8	1557.8	1551.0	1557.8
32.5°	1445.6	1455.8	1445.6	1455.8	1452.4	1452.4	1449.0	1455.8
35°	1343.5	1346.9	1340.1	1350.3	1350.3	1353.7	1346.9	1357.1
37.5°	1238.1	1241.5	1238.1	1241.5	1248.3	1238.1	1244.9	1248.3
40°	1129.2	1136.0	1132.6	1136.0	1136.0	1139.4	1136.0	1139.4
42.5°	1020.4	1027.2	1020.4	1030.6	1027.2	1027.2	1030.6	1030.6
45°	908.2	918.4	911.6	918.4	921.8	918.4	918.4	925.2
47.5°	802.7	809.5	806.1	809.5	809.5	809.5	809.5	816.3
50°	697.3	700.7	700.7	704.1	704.1	707.5	700.7	704.1
52.5°	591.8	598.6	598.6	598.6	595.2	598.6	598.6	598.6
55°	496.6	500.0	493.2	500.0	500.0	496.6	496.6	503.4
57.5°	404.8	404.8	404.8	404.8	404.8	401.4	404.8	404.8
60°	319.7	323.1	319.7	319.7	319.7	319.7	316.3	323.1
62.5°	248.3	248.3	244.9	248.3	248.3	248.3	251.7	251.7
65°	193.9	197.3	193.9	197.3	197.3	197.3	197.3	200.7
67.5°	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1
70°	115.6	115.6	115.6	119.0	115.6	115.6	115.6	119.0
72.5°	85.0	85.0	85.0	85.0	85.0	85.0	88.4	88.4
75°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
77.5°	40.8	40.8	40.8	44.2	40.8	44.2	40.8	40.8
80°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
82.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
87.5°	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4
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)