

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: P252543

Luminaire Tested: **LD6B70D010TE EU6B60709730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252543
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: LD6B70D010TE EU6B60709730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 4492.0 lumens
Efficiency: N/A
Efficacy: 56.5 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

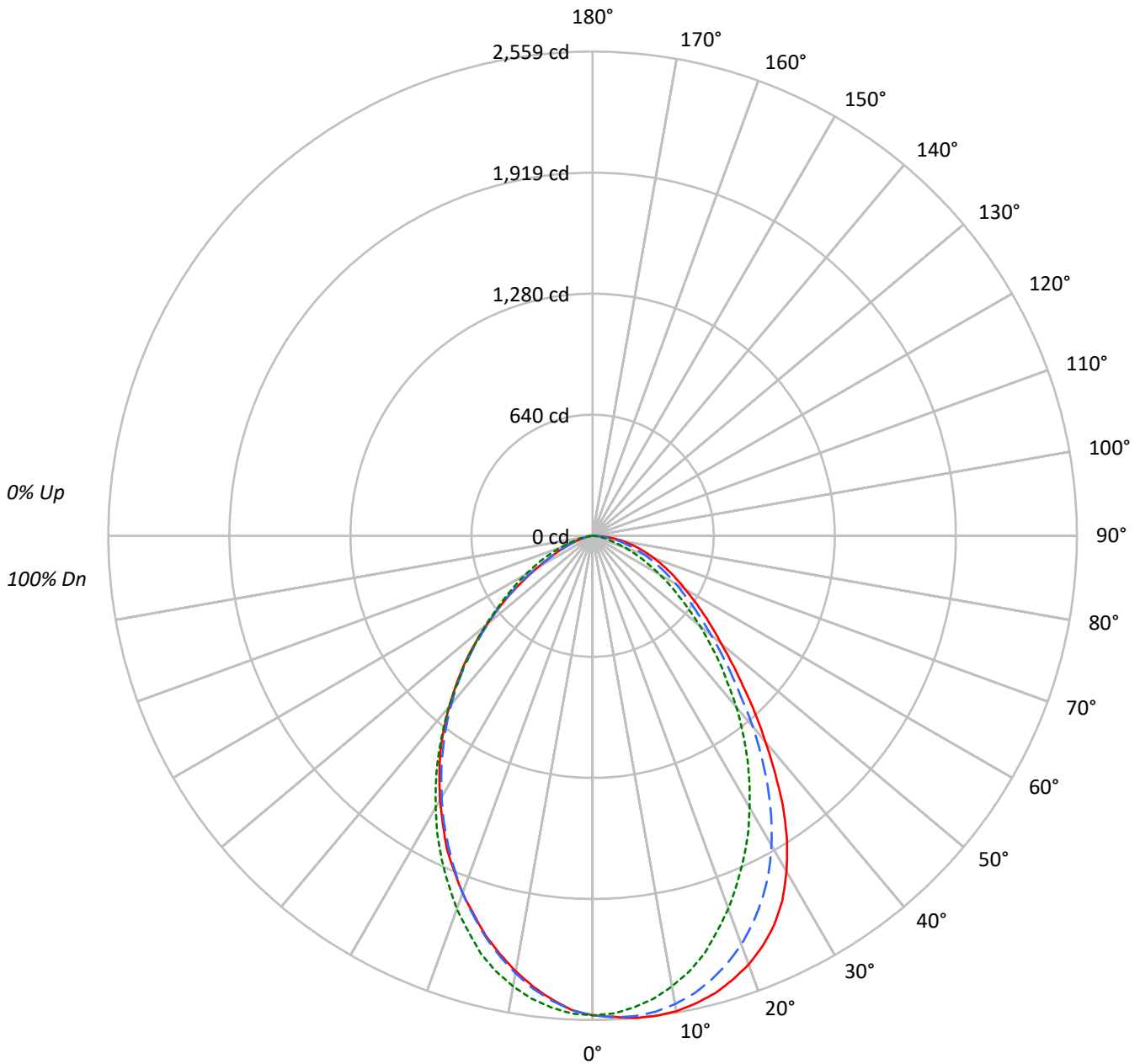
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165333	165333	165333
5°	167575	163888	161118
10°	169049	160185	154826
15°	169024	154286	147627
20°	167390	145638	139529
25°	163420	135800	131243
30°	154313	124888	121437
35°	139879	113246	111844
40°	120799	100717	100419
45°	103594	87679	88324
50°	90027	75016	73950
55°	80872	63253	59249
60°	73474	53275	43633
65°	69004	44012	32063
70°	65790	34240	23501
75°	62992	24854	15981
80°	59512	17207	10595
85°	52698	10555	5240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	5.3
10°-20°	649.2	14.5
20°-30°	901.3	20.1
30°-40°	933.6	20.8
40°-50°	767.2	17.1
50°-60°	527.3	11.7
60°-70°	303.1	6.7
70°-80°	139.3	3.1
80°-90°	33.9	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°	1787.6	39.8
0°-40°	2721.2	60.6
0°-60°	4015.6	89.4
0°-90°	4492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2534	2534	2534	2534	2534	
5°	2559	2548	2502	2467	2460	244
15°	2502	2429	2284	2193	2186	705
25°	2270	2119	1886	1806	1823	1039
35°	1756	1612	1422	1380	1404	1089
45°	1123	1038	950	940	957	874
55°	711	644	556	524	521	640
65°	447	391	285	201	208	445
75°	250	197	99	63	63	264
85°	70	49	14	7	7	79
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°	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2544.7	2565.8	2551.8	2548.2	2555.3	2555.3	2555.3	2544.7	2551.8	2541.2	2548.2
5°	2558.8	2576.4	2562.3	2555.3	2562.3	2565.8	2555.3	2548.2	2558.8	2544.7	2548.2
7.5°	2558.8	2576.4	2562.3	2558.8	2562.3	2562.3	2558.8	2544.7	2551.8	2537.7	2537.7
10°	2551.8	2565.8	2551.8	2544.7	2548.2	2544.7	2544.7	2527.1	2530.6	2513.0	2513.0
12.5°	2530.6	2548.2	2530.6	2523.6	2523.6	2523.6	2513.0	2499.0	2502.5	2481.4	2477.8
15°	2502.5	2516.6	2499.0	2491.9	2491.9	2488.4	2481.4	2460.2	2460.2	2439.1	2428.6
17.5°	2460.2	2474.3	2460.2	2449.7	2446.2	2439.1	2432.1	2411.0	2403.9	2379.3	2368.7
20°	2411.0	2421.5	2407.4	2396.9	2389.8	2382.8	2368.7	2347.6	2340.6	2315.9	2298.3
22.5°	2347.6	2361.7	2340.6	2330.0	2323.0	2312.4	2298.3	2277.2	2266.7	2235.0	2213.9
25°	2270.2	2277.2	2259.6	2249.1	2235.0	2227.9	2217.4	2189.2	2178.7	2143.5	2118.8
27.5°	2171.6	2178.7	2157.5	2150.5	2132.9	2125.9	2111.8	2087.2	2073.1	2037.9	2013.2
30°	2048.4	2055.5	2041.4	2030.8	2016.8	2002.7	1992.1	1967.5	1946.4	1911.2	1890.1
32.5°	1911.2	1921.7	1907.7	1893.6	1868.9	1872.5	1854.9	1830.2	1812.6	1780.9	1756.3
35°	1756.3	1763.3	1745.7	1742.2	1728.2	1714.1	1696.5	1678.9	1668.3	1633.1	1612.0
37.5°	1583.8	1601.4	1583.8	1569.8	1562.7	1552.2	1541.6	1517.0	1509.9	1488.8	1460.7
40°	1418.4	1429.0	1418.4	1404.3	1393.8	1393.8	1379.7	1365.6	1348.0	1326.9	1316.4
42.5°	1270.6	1263.6	1260.0	1253.0	1238.9	1235.4	1231.9	1214.3	1203.7	1182.6	1165.0
45°	1122.8	1126.3	1119.3	1115.7	1105.2	1098.1	1091.1	1077.0	1073.5	1052.4	1038.3
47.5°	999.6	996.1	989.0	989.0	982.0	974.9	967.9	957.3	953.8	936.2	922.2
50°	887.0	890.5	887.0	883.4	872.9	869.4	862.3	855.3	848.2	830.6	816.6
52.5°	795.4	791.9	788.4	788.4	777.8	774.3	767.3	760.2	753.2	735.6	725.0
55°	711.0	711.0	707.5	703.9	693.4	689.9	686.3	679.3	668.7	654.7	644.1
57.5°	633.5	633.5	630.0	626.5	619.5	619.5	612.4	605.4	598.3	584.3	570.2
60°	563.1	566.7	563.1	559.6	552.6	552.6	549.1	538.5	535.0	517.4	506.8
62.5°	503.3	503.3	503.3	499.8	496.3	489.2	489.2	478.7	471.6	461.1	447.0
65°	447.0	447.0	447.0	443.5	436.4	432.9	429.4	422.4	415.3	404.8	390.7
67.5°	394.2	394.2	394.2	390.7	383.6	380.1	376.6	373.1	362.5	352.0	337.9
70°	344.9	344.9	341.4	337.9	334.4	330.8	327.3	320.3	313.2	299.2	288.6
72.5°	295.7	295.7	295.7	288.6	285.1	285.1	278.1	274.5	267.5	253.4	242.9
75°	249.9	246.4	246.4	242.9	239.3	235.8	232.3	228.8	218.2	211.2	197.1
77.5°	204.1	204.1	200.6	197.1	197.1	193.6	190.1	183.0	179.5	168.9	158.4
80°	158.4	158.4	158.4	158.4	154.9	151.3	151.3	144.3	140.8	130.2	123.2
82.5°	119.7	116.1	116.1	116.1	112.6	109.1	109.1	105.6	102.1	95.0	88.0
85°	70.4	66.9	66.9	66.9	63.4	63.4	59.8	59.8	56.3	49.3	49.3
87.5°	21.1	21.1	24.6	24.6	21.1	21.1	21.1	21.1	21.1	17.6	17.6
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°	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2541.2	2551.8	2537.7	2534.2	2548.2	2541.2	2537.7	2530.6	2534.2	2527.1	2516.6
5°	2537.7	2551.8	2534.2	2523.6	2541.2	2530.6	2523.6	2516.6	2516.6	2502.5	2495.4
7.5°	2527.1	2534.2	2516.6	2506.0	2516.6	2506.0	2499.0	2488.4	2484.9	2467.3	2456.7
10°	2499.0	2506.0	2484.9	2470.8	2481.4	2467.3	2456.7	2446.2	2439.1	2418.0	2403.9
12.5°	2460.2	2463.8	2439.1	2421.5	2428.6	2418.0	2400.4	2386.3	2379.3	2358.2	2340.6
15°	2407.4	2411.0	2382.8	2358.2	2365.2	2351.1	2330.0	2315.9	2305.4	2284.3	2259.6
17.5°	2344.1	2340.6	2308.9	2284.3	2287.8	2270.2	2249.1	2227.9	2213.9	2189.2	2171.6
20°	2273.7	2263.1	2227.9	2199.8	2203.3	2182.2	2157.5	2136.4	2118.8	2097.7	2073.1
22.5°	2185.7	2171.6	2140.0	2104.8	2108.3	2090.7	2055.5	2037.9	2020.3	1992.1	1971.0
25°	2090.7	2069.6	2037.9	2002.7	2002.7	1981.6	1953.4	1932.3	1914.7	1886.5	1861.9
27.5°	1978.0	1967.5	1925.3	1897.1	1893.6	1872.5	1847.8	1823.2	1802.1	1777.4	1752.8
30°	1854.9	1837.3	1805.6	1773.9	1766.9	1749.3	1724.6	1696.5	1682.4	1657.8	1636.6
32.5°	1724.6	1707.0	1671.8	1640.2	1636.6	1622.6	1601.4	1573.3	1559.2	1541.6	1527.5
35°	1576.8	1569.8	1534.6	1509.9	1509.9	1495.9	1474.7	1450.1	1439.5	1421.9	1404.3
37.5°	1436.0	1425.5	1393.8	1372.7	1372.7	1355.1	1334.0	1323.4	1312.8	1298.8	1288.2
40°	1288.2	1281.2	1256.5	1235.4	1238.9	1224.8	1210.8	1196.7	1189.6	1182.6	1172.0
42.5°	1150.9	1143.9	1126.3	1108.7	1108.7	1098.1	1084.1	1073.5	1066.5	1055.9	1052.4
45°	1027.7	1017.2	1003.1	985.5	985.5	974.9	967.9	960.9	957.3	950.3	939.7
47.5°	908.1	901.0	887.0	869.4	869.4	869.4	855.3	844.7	844.7	837.7	834.2
50°	806.0	795.4	784.9	770.8	770.8	763.8	753.2	742.6	742.6	739.1	732.1
52.5°	711.0	703.9	689.9	675.8	675.8	668.7	658.2	654.7	651.1	640.6	637.1
55°	630.0	623.0	612.4	594.8	591.3	587.8	577.2	570.2	566.7	556.1	556.1
57.5°	556.1	549.1	531.5	520.9	517.4	510.4	499.8	492.8	489.2	482.2	475.2
60°	492.8	482.2	468.1	454.0	450.5	443.5	432.9	425.9	422.4	408.3	401.2
62.5°	432.9	422.4	408.3	394.2	390.7	383.6	369.6	362.5	355.5	341.4	334.4
65°	376.6	366.0	352.0	337.9	330.8	327.3	313.2	302.7	295.7	285.1	271.0
67.5°	323.8	313.2	299.2	281.6	281.6	271.0	260.5	249.9	239.3	228.8	218.2
70°	274.5	264.0	249.9	235.8	232.3	225.3	214.7	200.6	193.6	179.5	168.9
72.5°	228.8	218.2	204.1	190.1	186.5	179.5	168.9	154.9	144.3	133.7	123.2
75°	186.5	176.0	161.9	151.3	147.8	140.8	130.2	116.1	105.6	98.6	88.0
77.5°	147.8	137.3	126.7	116.1	112.6	105.6	95.0	88.0	77.4	70.4	59.8
80°	112.6	105.6	95.0	88.0	84.5	77.4	70.4	59.8	52.8	45.8	42.2
82.5°	81.0	73.9	66.9	56.3	56.3	49.3	45.8	38.7	31.7	28.2	24.6
85°	45.8	38.7	35.2	31.7	28.2	28.2	24.6	21.1	17.6	14.1	14.1
87.5°	14.1	14.1	10.6	10.6	10.6	10.6	7.0	7.0	7.0	7.0	7.0
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°	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2516.6	2520.1	2513.0	2520.1	2513.0	2516.6	2509.5	2516.6	2509.5	2516.6	2502.5
5°	2491.9	2491.9	2481.4	2488.4	2481.4	2484.9	2470.8	2474.3	2467.3	2474.3	2460.2
7.5°	2449.7	2453.2	2435.6	2442.6	2432.1	2432.1	2421.5	2425.0	2414.5	2418.0	2407.4
10°	2400.4	2396.9	2379.3	2386.3	2372.2	2372.2	2361.7	2361.7	2347.6	2351.1	2337.1
12.5°	2330.0	2326.5	2305.4	2312.4	2298.3	2298.3	2287.8	2287.8	2273.7	2280.7	2266.7
15°	2249.1	2245.5	2224.4	2227.9	2213.9	2213.9	2199.8	2203.3	2192.7	2199.8	2185.7
17.5°	2157.5	2154.0	2132.9	2136.4	2118.8	2122.4	2111.8	2108.3	2101.2	2104.8	2094.2
20°	2062.5	2055.5	2034.4	2037.9	2030.8	2020.3	2013.2	2016.8	2009.7	2016.8	2006.2
22.5°	1964.0	1949.9	1932.3	1932.3	1925.3	1925.3	1914.7	1921.7	1907.7	1918.2	1911.2
25°	1851.3	1840.8	1826.7	1833.7	1819.7	1819.7	1809.1	1812.6	1805.6	1812.6	1805.6
27.5°	1742.2	1735.2	1714.1	1721.1	1710.6	1714.1	1703.5	1707.0	1703.5	1710.6	1703.5
30°	1626.1	1622.6	1608.5	1608.5	1605.0	1601.4	1597.9	1597.9	1594.4	1605.0	1597.9
32.5°	1517.0	1506.4	1492.3	1502.9	1485.3	1495.9	1488.8	1495.9	1488.8	1495.9	1492.3
35°	1404.3	1400.8	1383.2	1386.7	1383.2	1383.2	1379.7	1379.7	1379.7	1390.3	1390.3
37.5°	1284.7	1281.2	1270.6	1274.1	1267.1	1263.6	1263.6	1270.6	1270.6	1277.6	1277.6
40°	1168.5	1172.0	1161.5	1161.5	1158.0	1158.0	1158.0	1165.0	1161.5	1168.5	1165.0
42.5°	1052.4	1052.4	1041.8	1045.3	1041.8	1045.3	1045.3	1052.4	1052.4	1055.9	1052.4
45°	943.3	943.3	939.7	943.3	936.2	939.7	936.2	943.3	939.7	943.3	943.3
47.5°	834.2	834.2	834.2	830.6	830.6	830.6	830.6	830.6	827.1	834.2	830.6
50°	732.1	735.6	732.1	732.1	728.6	732.1	728.6	728.6	721.5	725.0	725.0
52.5°	640.6	640.6	633.5	633.5	633.5	630.0	630.0	630.0	626.5	626.5	619.5
55°	552.6	552.6	545.5	545.5	542.0	538.5	535.0	535.0	524.4	524.4	513.9
57.5°	471.6	468.1	457.6	457.6	450.5	447.0	443.5	440.0	432.9	425.9	422.4
60°	397.7	390.7	383.6	380.1	373.1	366.0	359.0	352.0	344.9	341.4	337.9
62.5°	327.3	316.8	309.7	306.2	299.2	288.6	281.6	274.5	267.5	264.0	256.9
65°	264.0	253.4	242.9	239.3	232.3	225.3	214.7	207.7	200.6	197.1	197.1
67.5°	207.7	197.1	183.0	183.0	176.0	168.9	161.9	154.9	151.3	154.9	154.9
70°	154.9	147.8	137.3	133.7	126.7	119.7	116.1	116.1	116.1	119.7	116.1
72.5°	116.1	105.6	98.6	95.0	91.5	88.0	88.0	88.0	84.5	88.0	88.0
75°	81.0	73.9	66.9	66.9	63.4	63.4	63.4	63.4	63.4	63.4	63.4
77.5°	56.3	49.3	45.8	45.8	45.8	42.2	42.2	42.2	42.2	42.2	42.2
80°	35.2	35.2	31.7	31.7	28.2	28.2	28.2	28.2	28.2	28.2	28.2
82.5°	21.1	21.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
85°	10.6	10.6	10.6	10.6	10.6	7.0	7.0	7.0	7.0	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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: P252543

CATALOG NUMBER: LD6B70D010TE EU6B60709730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2502.5	2513.0	2499.0	2509.5	2506.0	2502.5	2495.4	2509.5
5°	2460.2	2463.8	2449.7	2463.8	2460.2	2453.2	2446.2	2460.2
7.5°	2400.4	2411.0	2393.4	2407.4	2403.9	2396.9	2389.8	2403.9
10°	2333.5	2344.1	2330.0	2340.6	2340.6	2333.5	2323.0	2337.1
12.5°	2259.6	2266.7	2252.6	2266.7	2263.1	2256.1	2252.6	2263.1
15°	2178.7	2189.2	2175.1	2185.7	2182.2	2178.7	2175.1	2185.7
17.5°	2090.7	2101.2	2090.7	2101.2	2101.2	2090.7	2087.2	2094.2
20°	2002.7	2009.7	1999.2	2009.7	2006.2	2006.2	1999.2	2009.7
22.5°	1904.1	1914.7	1907.7	1914.7	1911.2	1911.2	1907.7	1914.7
25°	1805.6	1816.1	1805.6	1816.1	1812.6	1812.6	1805.6	1823.2
27.5°	1707.0	1714.1	1703.5	1717.6	1714.1	1707.0	1710.6	1714.1
30°	1601.4	1608.5	1601.4	1612.0	1612.0	1612.0	1605.0	1612.0
32.5°	1495.9	1506.4	1495.9	1506.4	1502.9	1502.9	1499.4	1506.4
35°	1390.3	1393.8	1386.7	1397.3	1397.3	1400.8	1393.8	1404.3
37.5°	1281.2	1284.7	1281.2	1284.7	1291.7	1281.2	1288.2	1291.7
40°	1168.5	1175.6	1172.0	1175.6	1175.6	1179.1	1175.6	1179.1
42.5°	1055.9	1062.9	1055.9	1066.5	1062.9	1062.9	1066.5	1066.5
45°	939.7	950.3	943.3	950.3	953.8	950.3	950.3	957.3
47.5°	830.6	837.7	834.2	837.7	837.7	837.7	837.7	844.7
50°	721.5	725.0	725.0	728.6	728.6	732.1	725.0	728.6
52.5°	612.4	619.5	619.5	619.5	615.9	619.5	619.5	619.5
55°	513.9	517.4	510.4	517.4	517.4	513.9	513.9	520.9
57.5°	418.8	418.8	418.8	418.8	418.8	415.3	418.8	418.8
60°	330.8	334.4	330.8	330.8	330.8	330.8	327.3	334.4
62.5°	256.9	256.9	253.4	256.9	256.9	256.9	260.5	260.5
65°	200.6	204.1	200.6	204.1	204.1	204.1	204.1	207.7
67.5°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
70°	119.7	119.7	119.7	123.2	119.7	119.7	119.7	123.2
72.5°	88.0	88.0	88.0	88.0	88.0	88.0	91.5	91.5
75°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
77.5°	42.2	42.2	42.2	45.8	42.2	45.8	42.2	42.2
80°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
82.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
85°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
87.5°	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5
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)