

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: P252391

Luminaire Tested: **LD6B40D010 EU6B30508040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30508040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

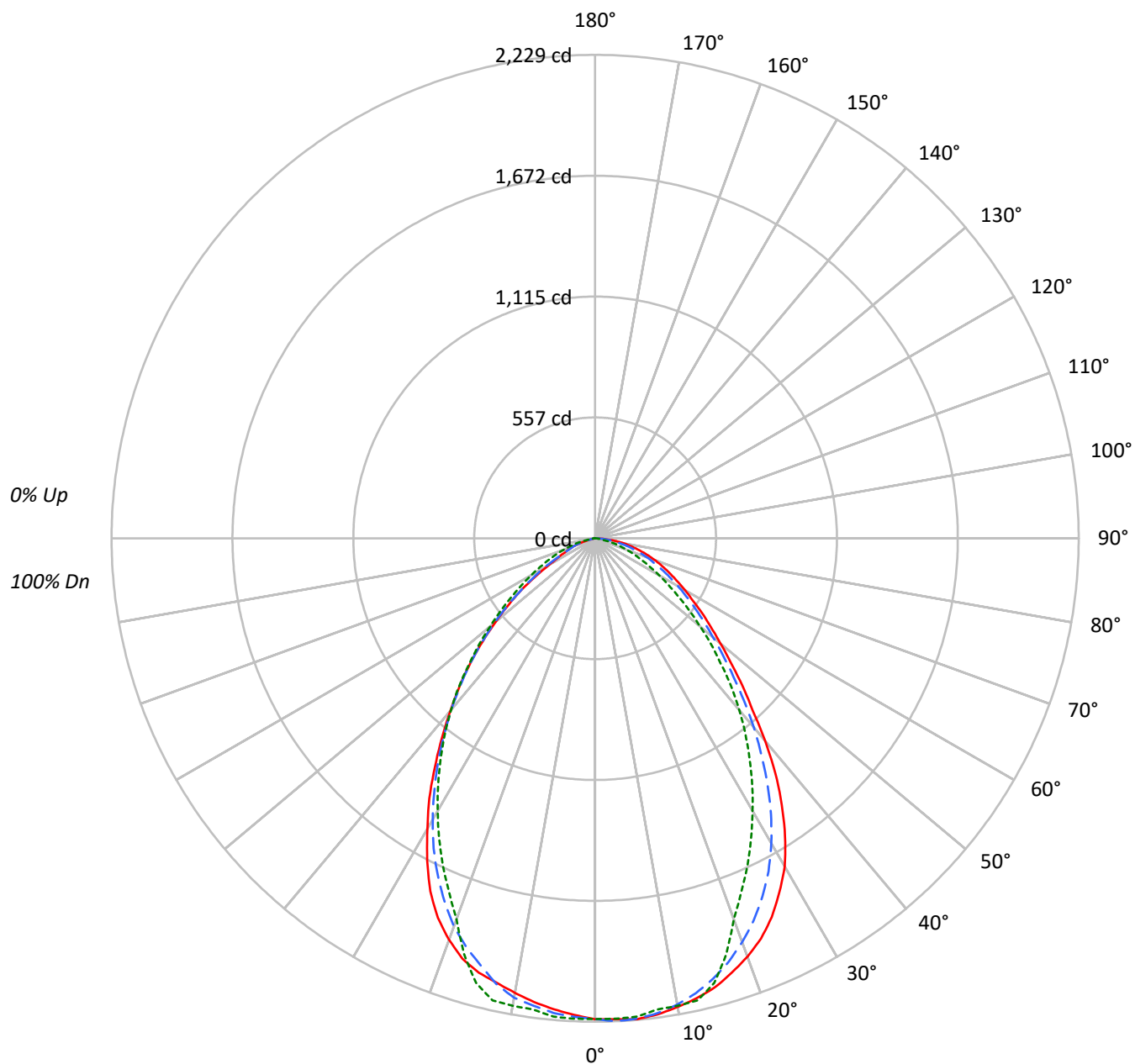
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	144645	144645	144645
5°	145767	145014	142748
10°	145353	144968	140967
15°	144695	143331	140028
20°	142535	129739	136738
25°	138665	119596	129336
30°	131668	109324	116480
35°	119482	98838	102510
40°	103732	88036	88283
45°	88463	75712	74919
50°	76569	64004	60492
55°	68451	53380	46840
60°	62370	44338	31563
65°	58229	36447	23557
70°	55470	29662	19781
75°	52254	21048	6529
80°	49781	10820	2179
85°	40946	6438	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	5.4
10°-20°	585.6	15.0
20°-30°	808.3	20.7
30°-40°	822.5	21.0
40°-50°	661.0	16.9
50°-60°	439.5	11.2
60°-70°	250.5	6.4
70°-80°	112.5	2.9
80°-90°	23.7	0.6
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°	1603.2	41.0
0°-40°	2425.8	62.0
0°-60°	3526.3	90.1
0°-90°	3913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2217	2217	2217	2217	2217	
5°	2226	2223	2214	2197	2180	211
15°	2142	2102	2122	2039	2073	603
25°	1926	1823	1661	1716	1797	883
35°	1500	1385	1241	1264	1287	932
45°	959	901	821	812	812	744
55°	602	562	469	418	412	541
65°	377	337	236	153	153	376
75°	207	173	84	35	26	221
85°	55	37	9	3	0	65
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°	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2220.0	2231.5	2228.7	2225.8	2228.7	2225.8	2220.0	2220.0	2214.3	2214.3	2228.7
5°	2225.8	2231.5	2228.7	2225.8	2225.8	2228.7	2217.1	2217.1	2211.4	2208.5	2222.9
7.5°	2214.3	2222.9	2217.1	2217.1	2214.3	2217.1	2205.6	2205.6	2197.0	2194.1	2208.5
10°	2194.1	2205.6	2199.9	2199.9	2199.9	2194.1	2188.3	2185.5	2176.8	2173.9	2182.6
12.5°	2171.1	2179.7	2176.8	2171.1	2171.1	2171.1	2159.6	2156.7	2145.2	2139.4	2148.0
15°	2142.3	2148.0	2145.2	2142.3	2136.5	2136.5	2125.0	2119.2	2107.7	2096.2	2102.0
17.5°	2099.1	2107.7	2102.0	2099.1	2090.4	2090.4	2078.9	2073.2	2055.9	2044.4	2047.3
20°	2053.0	2055.9	2053.0	2047.3	2038.6	2035.7	2024.2	2012.7	1998.3	1983.9	1981.0
22.5°	1998.3	2001.2	1992.5	1986.8	1978.1	1975.3	1960.9	1952.2	1929.2	1911.9	1909.0
25°	1926.3	1929.2	1929.2	1914.8	1909.0	1903.3	1888.9	1874.5	1854.3	1831.3	1822.7
27.5°	1839.9	1848.6	1842.8	1828.4	1816.9	1814.0	1799.6	1788.1	1762.2	1742.0	1730.5
30°	1747.8	1744.9	1742.0	1733.4	1716.1	1713.2	1698.8	1684.4	1664.3	1638.4	1624.0
32.5°	1629.7	1629.7	1626.9	1618.2	1600.9	1595.2	1583.7	1566.4	1543.4	1523.2	1508.8
35°	1500.2	1503.0	1500.2	1482.9	1471.4	1465.6	1459.9	1439.7	1419.5	1396.5	1385.0
37.5°	1364.8	1356.2	1359.1	1344.7	1330.3	1336.0	1318.8	1310.1	1287.1	1269.8	1258.3
40°	1218.0	1223.7	1212.2	1206.5	1197.8	1189.2	1189.2	1174.8	1163.3	1143.1	1137.4
42.5°	1074.0	1082.7	1079.8	1074.0	1062.5	1065.4	1051.0	1045.2	1030.8	1022.2	1013.5
45°	958.8	958.8	958.8	953.1	950.2	944.4	935.8	927.2	918.5	907.0	901.3
47.5°	846.5	846.5	849.4	843.7	837.9	835.0	829.3	829.3	814.9	803.4	797.6
50°	754.4	754.4	754.4	748.6	742.9	742.9	737.1	731.4	722.7	714.1	708.3
52.5°	670.9	670.9	670.9	665.1	662.3	659.4	656.5	653.6	642.1	636.3	630.6
55°	601.8	598.9	598.9	596.0	590.3	590.3	587.4	581.6	573.0	564.4	561.5
57.5°	532.7	535.6	532.7	532.7	526.9	526.9	521.2	518.3	509.7	503.9	498.1
60°	478.0	478.0	478.0	475.1	469.3	472.2	466.5	463.6	454.9	446.3	440.5
62.5°	423.3	426.2	426.2	423.3	417.5	417.5	414.6	411.8	403.1	394.5	385.8
65°	377.2	377.2	377.2	374.3	371.4	371.4	368.6	365.7	357.0	345.5	336.9
67.5°	334.0	331.1	331.1	331.1	328.3	325.4	322.5	319.6	311.0	302.3	290.8
70°	290.8	290.8	290.8	287.9	282.2	285.1	282.2	279.3	270.7	262.0	253.4
72.5°	250.5	250.5	247.6	244.7	244.7	241.9	241.9	239.0	230.4	218.8	210.2
75°	207.3	207.3	207.3	207.3	201.6	204.4	198.7	195.8	190.0	181.4	172.8
77.5°	169.9	169.9	169.9	167.0	164.1	164.1	161.2	158.4	149.7	144.0	132.5
80°	132.5	132.5	132.5	132.5	129.6	126.7	123.8	120.9	115.2	106.5	97.9
82.5°	97.9	97.9	95.0	95.0	95.0	92.1	89.3	86.4	80.6	74.9	69.1
85°	54.7	57.6	57.6	51.8	54.7	51.8	51.8	46.1	46.1	40.3	37.4
87.5°	20.2	17.3	17.3	17.3	17.3	17.3	17.3	14.4	14.4	14.4	11.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2217.1	2214.3	2225.8	2225.8	2208.5	2217.1	2220.0	2214.3	2214.3	2217.1	2208.5
5°	2211.4	2205.6	2217.1	2220.0	2202.7	2211.4	2214.3	2208.5	2211.4	2214.3	2202.7
7.5°	2191.2	2191.2	2199.9	2202.7	2185.5	2194.1	2194.1	2188.3	2191.2	2191.2	2182.6
10°	2171.1	2162.4	2171.1	2171.1	2156.7	2159.6	2165.3	2162.4	2173.9	2188.3	2188.3
12.5°	2133.6	2125.0	2139.4	2139.4	2130.8	2142.3	2156.7	2165.3	2176.8	2182.6	2165.3
15°	2087.6	2090.4	2116.4	2136.5	2127.9	2145.2	2159.6	2153.8	2139.4	2122.1	2096.2
17.5°	2027.1	2018.5	2041.5	2053.0	2041.5	2047.3	2058.8	2047.3	2024.2	2009.8	1975.3
20°	1958.0	1935.0	1935.0	1929.2	1909.0	1909.0	1906.2	1886.0	1877.4	1868.7	1854.3
22.5°	1880.2	1854.3	1845.7	1828.4	1811.1	1808.3	1799.6	1779.5	1768.0	1762.2	1744.9
25°	1791.0	1768.0	1753.6	1736.3	1710.4	1704.6	1696.0	1675.8	1670.1	1661.4	1647.0
27.5°	1698.8	1670.1	1649.9	1632.6	1609.6	1606.7	1589.4	1575.0	1563.5	1557.8	1546.2
30°	1592.3	1560.6	1546.2	1523.2	1505.9	1500.2	1485.8	1465.6	1457.0	1451.2	1442.6
32.5°	1474.3	1448.3	1433.9	1413.8	1390.8	1393.6	1376.4	1359.1	1353.3	1347.6	1338.9
35°	1359.1	1333.2	1315.9	1298.6	1284.2	1278.5	1266.9	1252.5	1243.9	1241.0	1235.3
37.5°	1232.4	1212.2	1197.8	1180.6	1169.0	1163.3	1157.5	1143.1	1137.4	1137.4	1125.8
40°	1108.6	1091.3	1079.8	1071.1	1056.7	1053.9	1048.1	1039.5	1036.6	1033.7	1025.1
42.5°	996.3	973.2	964.6	958.8	950.2	944.4	941.6	935.8	932.9	930.0	921.4
45°	889.7	869.6	860.9	855.2	846.5	843.7	840.8	832.1	826.4	820.6	817.7
47.5°	786.1	771.7	768.8	754.4	748.6	742.9	737.1	731.4	728.5	725.6	714.1
50°	696.8	688.2	673.8	665.1	659.4	656.5	645.0	636.3	633.5	630.6	622.0
52.5°	616.2	604.7	596.0	581.6	578.8	573.0	567.2	555.7	550.0	547.1	538.4
55°	544.2	535.6	524.1	512.5	503.9	501.0	492.4	480.9	475.1	469.3	463.6
57.5°	483.7	469.3	457.8	446.3	440.5	431.9	423.3	417.5	408.9	400.2	391.6
60°	426.2	414.6	400.2	388.7	383.0	377.2	365.7	357.0	348.4	339.8	331.1
62.5°	371.4	359.9	345.5	334.0	328.3	322.5	311.0	302.3	293.7	285.1	273.5
65°	322.5	311.0	299.5	287.9	282.2	276.4	264.9	253.4	244.7	236.1	224.6
67.5°	282.2	267.8	256.3	244.7	239.0	233.2	221.7	213.1	201.6	192.9	181.4
70°	239.0	227.5	218.8	207.3	201.6	195.8	184.3	172.8	164.1	155.5	144.0
72.5°	201.6	187.2	178.5	167.0	161.2	158.4	146.8	138.2	129.6	118.1	109.4
75°	161.2	149.7	138.2	129.6	123.8	120.9	109.4	100.8	92.1	83.5	74.9
77.5°	123.8	115.2	103.7	95.0	89.3	86.4	74.9	66.2	57.6	51.8	43.2
80°	92.1	80.6	74.9	66.2	63.3	57.6	51.8	43.2	37.4	28.8	23.0
82.5°	63.3	54.7	48.9	43.2	40.3	37.4	31.7	25.9	20.2	17.3	14.4
85°	34.6	28.8	25.9	23.0	20.2	20.2	17.3	14.4	11.5	8.6	5.8
87.5°	11.5	8.6	8.6	8.6	8.6	5.8	5.8	5.8	2.9	2.9	2.9
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°	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2214.3	2214.3	2214.3	2211.4	2211.4	2211.4	2208.5	2220.0	2208.5	2205.6	2214.3
5°	2211.4	2205.6	2205.6	2205.6	2205.6	2202.7	2199.9	2205.6	2197.0	2194.1	2194.1
7.5°	2194.1	2191.2	2191.2	2188.3	2185.5	2182.6	2179.7	2182.6	2173.9	2171.1	2171.1
10°	2197.0	2191.2	2191.2	2182.6	2176.8	2168.2	2159.6	2162.4	2150.9	2142.3	2142.3
12.5°	2162.4	2148.0	2139.4	2130.8	2125.0	2122.1	2110.6	2116.4	2104.8	2102.0	2102.0
15°	2084.7	2067.4	2053.0	2047.3	2047.3	2041.5	2032.9	2044.4	2038.6	2041.5	2055.9
17.5°	1963.8	1955.1	1946.5	1943.6	1946.5	1952.2	1958.0	1975.3	1975.3	1983.9	1998.3
20°	1857.2	1851.5	1857.2	1857.2	1860.1	1871.6	1883.1	1897.5	1903.3	1911.9	1932.1
22.5°	1753.6	1753.6	1759.3	1768.0	1765.1	1785.2	1788.1	1814.0	1814.0	1831.3	1848.6
25°	1652.8	1652.8	1658.5	1661.4	1667.2	1678.7	1690.2	1710.4	1716.1	1733.4	1747.8
27.5°	1554.9	1552.0	1552.0	1554.9	1560.6	1575.0	1580.8	1603.8	1612.5	1624.0	1638.4
30°	1445.5	1442.6	1448.3	1454.1	1451.2	1465.6	1474.3	1491.5	1497.3	1508.8	1520.3
32.5°	1341.8	1341.8	1341.8	1347.6	1347.6	1359.1	1359.1	1379.2	1379.2	1387.9	1399.4
35°	1235.3	1235.3	1238.1	1241.0	1243.9	1246.8	1249.7	1261.2	1264.1	1266.9	1272.7
37.5°	1134.5	1131.6	1134.5	1134.5	1128.7	1140.2	1140.2	1151.8	1143.1	1151.8	1154.6
40°	1030.8	1030.8	1027.9	1027.9	1027.9	1033.7	1027.9	1036.6	1030.8	1036.6	1033.7
42.5°	924.3	924.3	918.5	924.3	921.4	921.4	921.4	927.2	918.5	924.3	927.2
45°	817.7	814.9	814.9	812.0	812.0	812.0	814.9	814.9	812.0	817.7	817.7
47.5°	714.1	711.2	711.2	711.2	711.2	714.1	705.5	711.2	705.5	705.5	705.5
50°	624.8	622.0	619.1	616.2	613.3	613.3	610.4	610.4	604.7	601.8	598.9
52.5°	538.4	535.6	529.8	529.8	526.9	524.1	515.4	515.4	506.8	503.9	503.9
55°	460.7	452.1	449.2	443.4	443.4	437.7	431.9	426.2	417.5	411.8	411.8
57.5°	388.7	380.1	374.3	371.4	368.6	362.8	351.3	348.4	336.9	334.0	331.1
60°	325.4	316.7	308.1	302.3	299.5	290.8	279.3	273.5	267.8	259.1	250.5
62.5°	264.9	256.3	244.7	241.9	236.1	227.5	218.8	210.2	204.4	195.8	190.0
65°	213.1	204.4	195.8	190.0	184.3	175.6	167.0	158.4	152.6	149.7	146.8
67.5°	172.8	161.2	152.6	149.7	144.0	138.2	129.6	126.7	120.9	120.9	120.9
70°	135.3	126.7	118.1	115.2	112.3	106.5	100.8	100.8	100.8	100.8	100.8
72.5°	100.8	95.0	86.4	83.5	80.6	77.7	72.0	74.9	72.0	72.0	72.0
75°	63.3	57.6	51.8	48.9	46.1	43.2	40.3	37.4	34.6	31.7	31.7
77.5°	34.6	28.8	25.9	23.0	23.0	20.2	17.3	17.3	14.4	14.4	14.4
80°	20.2	17.3	14.4	11.5	11.5	8.6	8.6	8.6	8.6	5.8	5.8
82.5°	11.5	8.6	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9
85°	5.8	5.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: P252391

CATALOG NUMBER: LD6B40D010 EU6B30508040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2199.9	2208.5	2199.9	2208.5	2208.5	2208.5	2208.5	2199.9
5°	2185.5	2191.2	2182.6	2188.3	2191.2	2188.3	2188.3	2179.7
7.5°	2159.6	2165.3	2156.7	2165.3	2168.2	2165.3	2162.4	2156.7
10°	2133.6	2136.5	2127.9	2133.6	2139.4	2139.4	2136.5	2127.9
12.5°	2093.3	2102.0	2093.3	2099.1	2104.8	2107.7	2107.7	2099.1
15°	2047.3	2061.7	2055.9	2064.5	2073.2	2076.0	2076.0	2073.2
17.5°	2001.2	2015.6	2006.9	2021.3	2030.0	2035.7	2038.6	2032.9
20°	1935.0	1952.2	1946.5	1958.0	1969.5	1978.1	1978.1	1969.5
22.5°	1848.6	1871.6	1868.7	1877.4	1891.8	1894.6	1900.4	1894.6
25°	1753.6	1770.8	1768.0	1776.6	1793.9	1793.9	1796.7	1796.7
27.5°	1644.1	1661.4	1658.5	1664.3	1675.8	1678.7	1681.6	1675.8
30°	1526.1	1534.7	1534.7	1543.4	1552.0	1554.9	1554.9	1546.2
32.5°	1396.5	1408.0	1413.8	1410.9	1419.5	1425.3	1422.4	1422.4
35°	1278.5	1281.3	1284.2	1287.1	1290.0	1295.7	1290.0	1287.1
37.5°	1151.8	1160.4	1154.6	1160.4	1166.2	1163.3	1160.4	1160.4
40°	1036.6	1039.5	1033.7	1039.5	1042.3	1042.3	1042.3	1036.6
42.5°	921.4	927.2	921.4	927.2	927.2	927.2	927.2	924.3
45°	806.2	812.0	812.0	814.9	814.9	812.0	812.0	812.0
47.5°	699.7	705.5	699.7	705.5	708.3	702.6	702.6	702.6
50°	598.9	596.0	596.0	598.9	598.9	598.9	598.9	596.0
52.5°	495.3	498.1	498.1	498.1	501.0	498.1	501.0	501.0
55°	406.0	406.0	406.0	408.9	406.0	406.0	408.9	411.8
57.5°	325.4	322.5	319.6	319.6	322.5	319.6	319.6	319.6
60°	250.5	247.6	244.7	244.7	244.7	244.7	244.7	241.9
62.5°	187.2	187.2	187.2	190.0	190.0	190.0	190.0	192.9
65°	149.7	149.7	149.7	149.7	149.7	149.7	149.7	152.6
67.5°	120.9	120.9	120.9	123.8	123.8	123.8	123.8	123.8
70°	100.8	100.8	103.7	100.8	103.7	103.7	103.7	103.7
72.5°	69.1	69.1	69.1	69.1	69.1	66.2	69.1	66.2
75°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	25.9
77.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0
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)