

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: P252169

Luminaire Tested: **LD6B30D010 EU6B30508035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30508035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

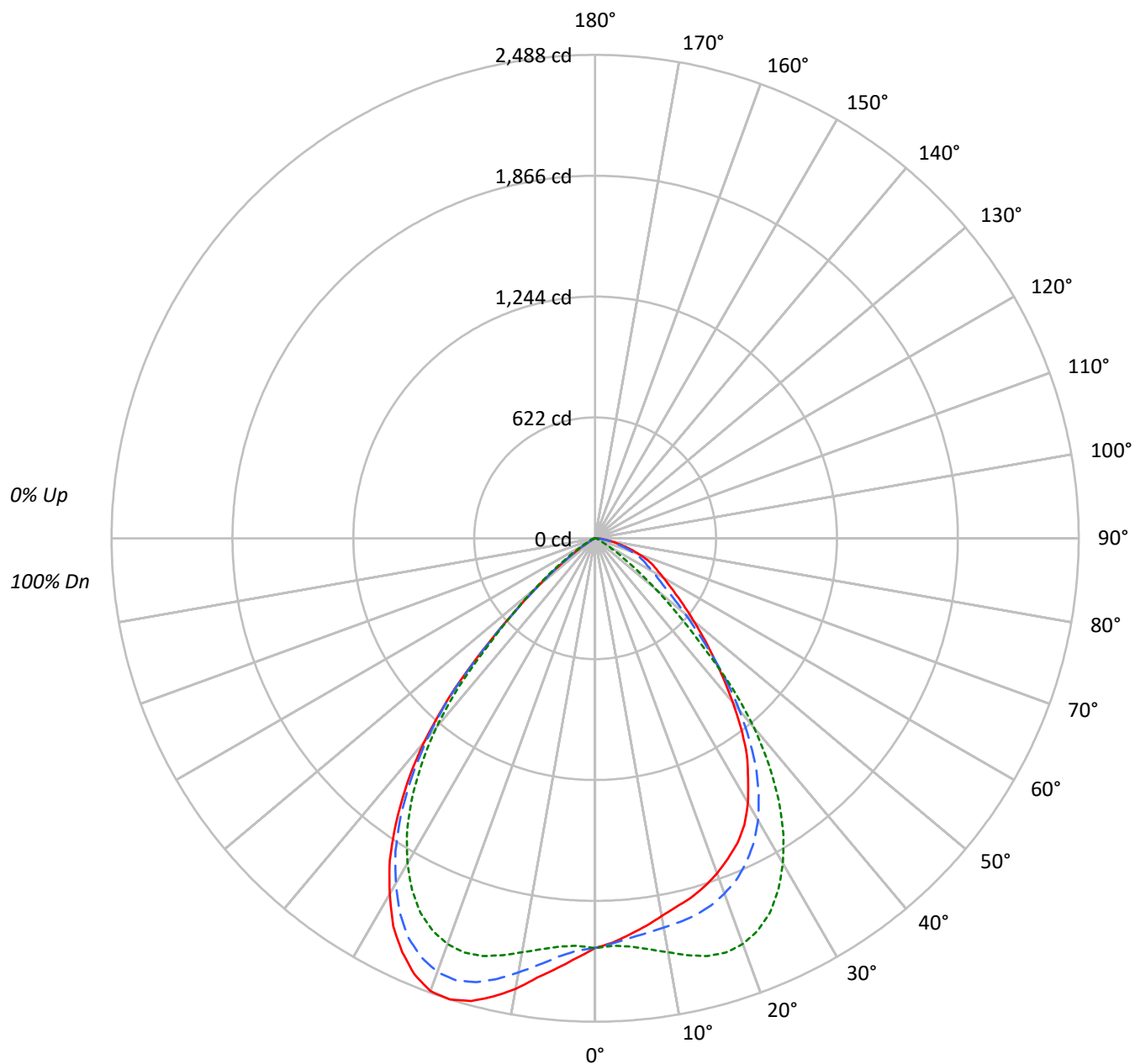
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	137592	137592	137592
5°	134025	138118	145381
10°	130765	143319	156012
15°	129235	150342	166552
20°	127386	154261	172181
25°	124678	153119	169086
30°	118477	145514	159179
35°	108396	131198	142117
40°	93759	108348	116592
45°	79061	71062	76275
50°	67120	41136	38680
55°	58248	19723	14912
60°	52610	9212	3680
65°	51051	5295	1250
70°	45761	4235	1145
75°	37609	3050	504
80°	28028	1503	0
85°	24178	0	0



TEST NUMBER: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	5.3
10°-20°	620.8	16.1
20°-30°	948.6	24.6
30°-40°	992.1	25.7
40°-50°	643.6	16.7
50°-60°	255.5	6.6
60°-70°	121.2	3.1
70°-80°	57.6	1.5
80°-90°	11.8	0.3
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°	1773.1	46.0
0°-40°	2765.2	71.7
0°-60°	3664.4	95.1
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2109	2109	2109	2109	2109	
5°	2046	2065	2109	2161	2220	193
15°	1913	2006	2226	2365	2466	539
25°	1732	1841	2127	2270	2349	793
35°	1361	1444	1647	1744	1784	842
45°	857	849	770	817	827	667
55°	512	436	173	135	131	464
65°	331	274	34	8	8	323
75°	149	121	12	4	2	161
85°	32	20	0	0	0	38
90°	0	0	0	0	0	



TEST NUMBER: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0
2.5°	2082.8	2086.8	2064.6	2058.6	2074.7	2080.8	2082.8	2076.7	2078.7	2086.8	2086.8
5°	2046.5	2050.5	2030.4	2024.3	2040.4	2044.5	2050.5	2048.5	2054.6	2066.6	2064.6
7.5°	2012.2	2018.3	1996.1	1988.0	2008.2	2018.3	2022.3	2022.3	2030.4	2046.5	2048.5
10°	1973.9	1982.0	1961.8	1957.8	1979.9	1990.0	1992.0	1996.1	2008.2	2030.4	2034.4
12.5°	1941.6	1949.7	1935.6	1929.5	1953.7	1963.8	1967.9	1975.9	1990.0	2018.3	2022.3
15°	1913.4	1919.5	1903.3	1899.3	1923.5	1935.6	1937.6	1949.7	1967.9	2000.1	2006.2
17.5°	1877.1	1881.2	1869.1	1865.0	1889.2	1901.3	1903.3	1917.4	1939.6	1971.9	1982.0
20°	1834.8	1838.8	1826.7	1822.7	1846.9	1861.0	1863.0	1875.1	1901.3	1935.6	1945.7
22.5°	1784.4	1792.4	1778.3	1774.3	1798.5	1810.6	1816.6	1826.7	1852.9	1887.2	1901.3
25°	1732.0	1732.0	1721.9	1719.9	1742.0	1756.1	1754.1	1768.2	1794.5	1828.7	1840.8
27.5°	1663.4	1661.4	1651.3	1649.3	1673.5	1685.6	1681.5	1695.7	1719.9	1754.1	1766.2
30°	1572.7	1576.7	1562.6	1558.6	1578.7	1598.9	1596.9	1611.0	1635.2	1667.4	1675.5
32.5°	1463.8	1467.8	1465.8	1459.8	1477.9	1488.0	1494.0	1504.1	1524.3	1558.6	1566.6
35°	1361.0	1354.9	1346.8	1346.8	1365.0	1381.1	1375.1	1387.2	1407.3	1441.6	1443.6
37.5°	1233.9	1231.9	1227.9	1223.9	1244.0	1248.1	1250.1	1258.1	1276.3	1304.5	1300.5
40°	1100.9	1102.9	1100.9	1092.8	1104.9	1121.0	1119.0	1123.0	1139.2	1159.3	1153.3
42.5°	975.9	975.9	975.9	967.8	981.9	990.0	994.0	992.0	996.0	1014.2	1006.1
45°	856.9	858.9	856.9	854.9	856.9	860.9	856.9	854.9	854.9	860.9	848.8
47.5°	754.1	754.1	748.0	742.0	748.0	750.0	744.0	737.9	735.9	733.9	713.7
50°	661.3	659.3	657.3	647.2	653.3	655.3	647.2	643.2	635.1	625.0	600.8
52.5°	580.7	578.7	576.6	566.6	570.6	572.6	564.5	556.5	546.4	538.3	508.1
55°	512.1	510.1	510.1	504.1	500.0	504.1	496.0	489.9	475.8	465.8	435.5
57.5°	453.7	453.7	449.6	443.6	445.6	445.6	437.5	429.5	417.4	405.3	381.1
60°	403.2	403.2	403.2	397.2	397.2	397.2	393.2	385.1	375.0	362.9	338.7
62.5°	362.9	362.9	360.9	354.9	356.9	356.9	352.8	344.8	334.7	326.6	302.4
65°	330.7	330.7	330.7	324.6	324.6	326.6	322.6	314.5	306.5	296.4	274.2
67.5°	290.3	288.3	288.3	284.3	286.3	288.3	284.3	278.2	268.2	262.1	241.9
70°	239.9	241.9	244.0	237.9	239.9	239.9	237.9	231.9	225.8	219.8	201.6
72.5°	195.6	195.6	193.6	191.5	191.5	193.6	189.5	183.5	179.4	175.4	161.3
75°	149.2	147.2	149.2	145.2	145.2	145.2	141.1	139.1	137.1	131.1	121.0
77.5°	108.9	106.9	106.9	102.8	104.8	104.8	102.8	98.8	94.8	92.7	84.7
80°	74.6	74.6	74.6	72.6	72.6	70.6	70.6	68.6	64.5	62.5	58.5
82.5°	50.4	50.4	50.4	48.4	48.4	48.4	46.4	44.4	42.3	40.3	36.3
85°	32.3	32.3	32.3	30.2	30.2	30.2	28.2	28.2	26.2	24.2	20.2
87.5°	18.1	18.1	18.1	16.1	16.1	16.1	16.1	16.1	14.1	12.1	10.1
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: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0
2.5°	2100.9	2072.7	2090.8	2090.8	2084.8	2100.9	2111.0	2119.1	2117.1	2098.9	2096.9
5°	2084.8	2060.6	2080.8	2082.8	2076.7	2098.9	2113.0	2123.1	2125.1	2109.0	2111.0
7.5°	2072.7	2052.5	2078.7	2086.8	2084.8	2105.0	2121.1	2137.2	2145.3	2133.2	2135.2
10°	2066.6	2050.5	2078.7	2090.8	2092.9	2115.0	2139.2	2161.4	2171.5	2163.4	2169.5
12.5°	2058.6	2048.5	2080.8	2098.9	2107.0	2129.2	2159.4	2185.6	2201.7	2197.7	2209.8
15°	2050.5	2042.5	2080.8	2107.0	2117.1	2137.2	2171.5	2209.8	2227.9	2225.9	2242.1
17.5°	2030.4	2028.3	2068.7	2096.9	2111.0	2135.2	2167.5	2213.8	2232.0	2236.0	2256.2
20°	1998.1	1998.1	2042.5	2072.7	2088.8	2111.0	2151.3	2195.7	2217.9	2221.9	2244.1
22.5°	1953.7	1957.8	2000.1	2030.4	2054.6	2070.7	2113.0	2159.4	2179.6	2185.6	2209.8
25°	1895.3	1899.3	1939.6	1969.9	1996.1	2014.2	2054.6	2096.9	2121.1	2127.1	2145.3
27.5°	1818.7	1826.7	1865.0	1895.3	1917.4	1929.5	1971.9	2016.2	2034.4	2040.4	2058.6
30°	1729.9	1732.0	1770.3	1796.5	1818.7	1828.7	1865.0	1911.4	1925.5	1931.6	1957.8
32.5°	1621.1	1619.0	1655.3	1679.5	1697.7	1709.8	1748.1	1778.3	1792.4	1802.5	1816.6
35°	1490.0	1488.0	1514.2	1542.4	1556.5	1560.6	1598.9	1631.1	1639.2	1647.3	1665.4
37.5°	1342.8	1342.8	1365.0	1379.1	1395.2	1401.3	1419.4	1455.7	1469.8	1467.8	1481.9
40°	1187.6	1179.5	1195.6	1209.7	1213.8	1215.8	1233.9	1262.2	1272.2	1272.2	1282.3
42.5°	1024.3	1012.2	1014.2	1022.2	1026.3	1012.2	1024.3	1042.4	1036.3	1044.4	1046.4
45°	850.9	832.7	824.6	806.5	810.5	796.4	788.4	792.4	790.4	770.2	774.2
47.5°	709.7	677.5	663.3	637.1	631.1	615.0	604.9	586.7	570.6	570.6	560.5
50°	590.8	558.5	530.3	500.0	489.9	475.8	453.7	429.5	417.4	405.3	395.2
52.5°	496.0	461.7	427.4	395.2	381.1	362.9	332.7	308.5	286.3	274.2	262.1
55°	419.4	381.1	344.8	310.5	292.4	274.2	244.0	215.7	189.5	173.4	163.3
57.5°	360.9	324.6	286.3	250.0	233.9	213.7	181.5	151.2	127.0	108.9	98.8
60°	318.6	282.3	248.0	209.7	193.6	173.4	139.1	110.9	86.7	70.6	58.5
62.5°	282.3	250.0	213.7	179.4	163.3	143.2	110.9	82.7	60.5	44.4	34.3
65°	256.1	223.8	193.6	159.3	145.2	125.0	94.8	68.6	48.4	34.3	24.2
67.5°	225.8	197.6	167.3	139.1	125.0	108.9	80.6	58.5	40.3	28.2	20.2
70°	189.5	167.3	141.1	114.9	104.8	90.7	66.5	48.4	32.3	22.2	16.1
72.5°	151.2	133.1	112.9	92.7	84.7	70.6	54.4	38.3	24.2	16.1	12.1
75°	114.9	100.8	84.7	70.6	62.5	54.4	40.3	28.2	18.1	12.1	8.1
77.5°	78.6	72.6	60.5	48.4	44.4	38.3	26.2	18.1	12.1	8.1	4.0
80°	54.4	48.4	40.3	32.3	28.2	24.2	16.1	12.1	6.0	4.0	2.0
82.5°	34.3	28.2	24.2	20.2	18.1	14.1	10.1	6.0	4.0	2.0	2.0
85°	18.1	16.1	14.1	10.1	10.1	8.1	6.0	4.0	2.0	0.0	0.0
87.5°	10.1	8.1	6.0	4.0	4.0	2.0	2.0	2.0	0.0	0.0	0.0
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: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0
2.5°	2121.1	2121.1	2119.1	2143.3	2115.0	2143.3	2129.2	2143.3	2123.1	2121.1	2123.1
5°	2137.2	2143.3	2145.3	2167.5	2141.2	2175.5	2163.4	2175.5	2161.4	2165.4	2171.5
7.5°	2169.5	2179.6	2177.5	2205.8	2179.6	2217.9	2209.8	2227.9	2213.8	2217.9	2225.9
10°	2205.8	2217.9	2219.9	2248.1	2223.9	2270.3	2260.2	2280.4	2268.3	2274.3	2284.4
12.5°	2248.1	2262.2	2264.2	2296.5	2270.3	2318.7	2312.6	2332.8	2322.7	2328.8	2340.9
15°	2280.4	2300.5	2304.6	2336.8	2308.6	2359.0	2355.0	2381.2	2365.1	2375.1	2385.2
17.5°	2296.5	2314.6	2322.7	2353.0	2328.8	2379.2	2375.1	2397.3	2385.2	2395.3	2407.4
20°	2286.4	2308.6	2314.6	2344.9	2320.7	2371.1	2365.1	2387.2	2375.1	2383.2	2395.3
22.5°	2250.1	2272.3	2280.4	2308.6	2286.4	2332.8	2330.8	2350.9	2334.8	2344.9	2355.0
25°	2185.6	2209.8	2213.8	2240.0	2215.9	2264.2	2260.2	2282.4	2270.3	2276.3	2290.5
27.5°	2092.9	2121.1	2127.1	2149.3	2131.2	2171.5	2171.5	2189.6	2175.5	2175.5	2189.6
30°	1982.0	2010.2	2014.2	2032.4	2016.2	2052.5	2054.6	2072.7	2050.5	2062.6	2064.6
32.5°	1846.9	1865.0	1877.1	1893.3	1869.1	1915.4	1909.4	1923.5	1911.4	1911.4	1921.5
35°	1683.6	1705.7	1711.8	1732.0	1711.8	1748.1	1748.1	1756.1	1744.0	1744.0	1760.2
37.5°	1506.1	1522.3	1524.3	1544.4	1528.3	1558.6	1556.5	1562.6	1550.5	1558.6	1558.6
40°	1298.5	1310.6	1314.6	1324.7	1322.7	1344.8	1342.8	1346.8	1340.8	1342.8	1346.8
42.5°	1056.5	1072.6	1080.7	1088.8	1076.7	1106.9	1100.9	1106.9	1104.9	1106.9	1113.0
45°	778.3	790.4	796.4	798.4	794.4	812.5	826.7	814.6	816.6	812.5	820.6
47.5°	562.5	564.5	560.5	572.6	562.5	570.6	574.6	576.6	564.5	562.5	570.6
50°	385.1	395.2	381.1	387.1	385.1	393.2	389.1	391.2	379.1	385.1	381.1
52.5°	256.1	254.0	250.0	252.0	248.0	248.0	248.0	252.0	244.0	239.9	235.9
55°	155.3	151.2	143.2	141.1	141.1	143.2	139.1	135.1	135.1	133.1	133.1
57.5°	90.7	84.7	80.6	78.6	74.6	72.6	70.6	70.6	66.5	66.5	66.5
60°	50.4	44.4	40.3	36.3	36.3	34.3	32.3	30.2	30.2	30.2	28.2
62.5°	26.2	22.2	18.1	16.1	16.1	14.1	12.1	12.1	12.1	12.1	10.1
65°	18.1	14.1	12.1	10.1	10.1	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	14.1	12.1	10.1	8.1	8.1	8.1	6.0	6.0	6.0	6.0	6.0
70°	12.1	8.1	8.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	8.1	8.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
75°	6.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P252169

CATALOG NUMBER: LD6B30D010 EU6B30508035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0	2109.0
2.5°	2141.2	2139.2	2141.2	2145.3	2137.2	2161.4	2149.3	2161.4
5°	2187.6	2189.6	2191.7	2197.7	2187.6	2217.9	2201.7	2219.9
7.5°	2248.1	2250.1	2252.1	2258.2	2252.1	2282.4	2264.2	2280.4
10°	2310.6	2314.6	2314.6	2324.7	2318.7	2346.9	2334.8	2355.0
12.5°	2369.1	2373.1	2377.1	2383.2	2379.2	2409.4	2399.3	2415.5
15°	2415.5	2423.5	2425.5	2433.6	2429.6	2461.8	2449.7	2465.9
17.5°	2437.6	2445.7	2445.7	2455.8	2451.8	2486.0	2469.9	2488.0
20°	2425.5	2431.6	2433.6	2443.7	2439.7	2473.9	2457.8	2480.0
22.5°	2387.2	2389.2	2391.3	2401.3	2399.3	2429.6	2415.5	2429.6
25°	2316.7	2322.7	2320.7	2328.8	2328.8	2353.0	2336.8	2348.9
27.5°	2215.9	2221.9	2221.9	2232.0	2223.9	2248.1	2232.0	2250.1
30°	2092.9	2098.9	2094.9	2102.9	2094.9	2119.1	2107.0	2113.0
32.5°	1945.7	1945.7	1947.7	1949.7	1945.7	1967.9	1955.8	1967.9
35°	1770.3	1774.3	1776.3	1778.3	1774.3	1790.4	1776.3	1784.4
37.5°	1572.7	1582.8	1580.7	1582.8	1576.7	1596.9	1584.8	1588.8
40°	1361.0	1361.0	1358.9	1363.0	1356.9	1373.1	1365.0	1369.0
42.5°	1115.0	1121.0	1113.0	1123.0	1106.9	1129.1	1121.0	1115.0
45°	836.7	828.7	826.7	828.7	822.6	824.6	830.7	826.7
47.5°	570.6	570.6	566.6	560.5	568.6	570.6	562.5	562.5
50°	383.1	383.1	379.1	377.0	381.1	379.1	375.0	381.1
52.5°	244.0	235.9	235.9	239.9	235.9	231.9	237.9	233.9
55°	133.1	129.0	129.0	133.1	129.0	129.0	127.0	131.1
57.5°	64.5	66.5	64.5	64.5	64.5	64.5	62.5	64.5
60°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
62.5°	12.1	12.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	6.0	6.0	6.0	6.0	6.0	8.1	6.0	6.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	6.0	6.0	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)