

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684950

Luminaire Tested: **LX6C30D010 EX6309035 6LCSWLI**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C30D010 EX6309035 6LCSWLI  
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

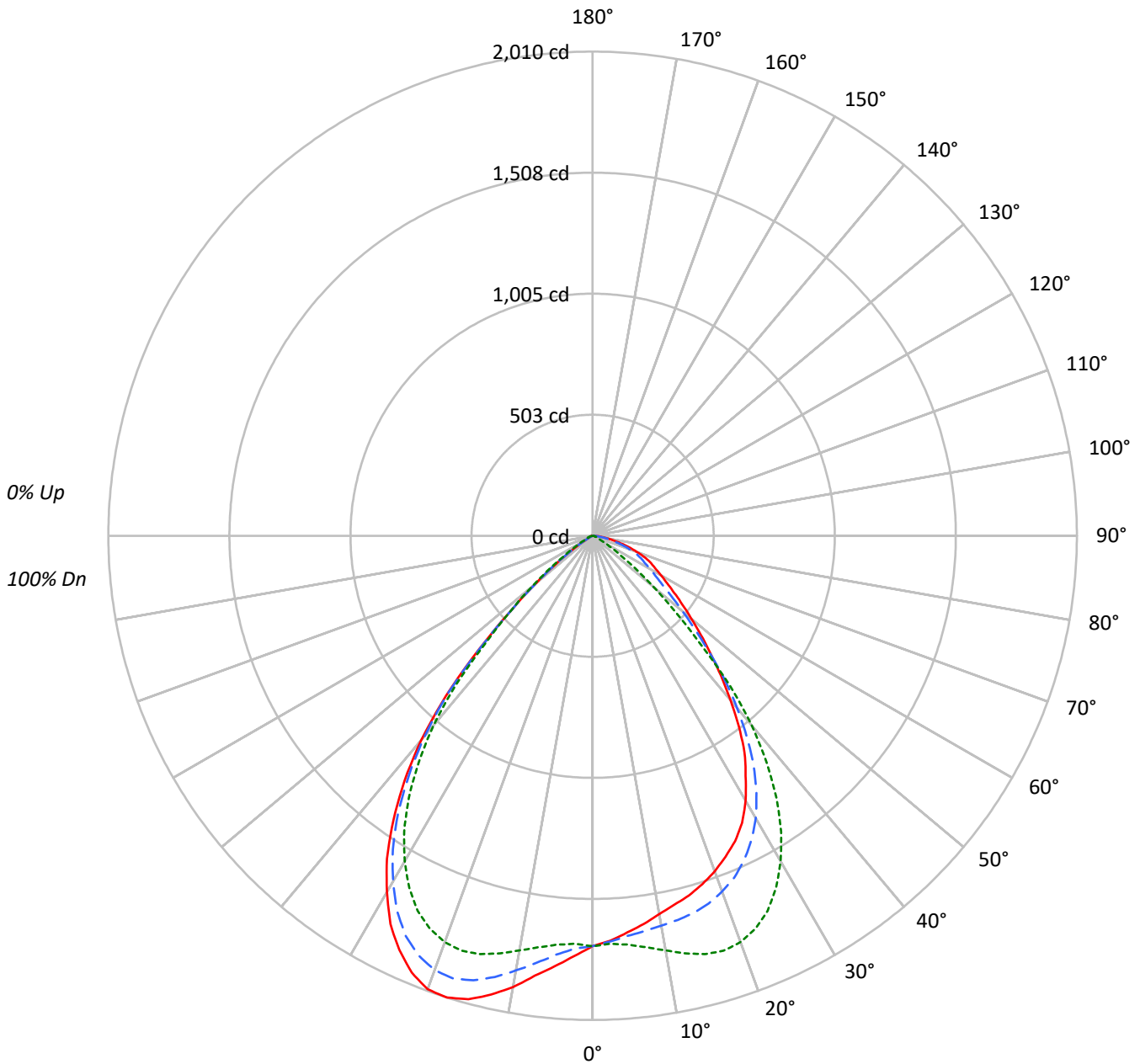
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3114.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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									
RC	80									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																			
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°	93392	93392	93392
5°	90969	93748	98679
10°	88759	97282	105893
15°	87719	102049	113048
20°	86463	104706	116869
25°	84628	103929	114769
30°	80417	98768	108048
35°	73575	89048	96463
40°	63641	73545	79134
45°	53664	48238	51765
50°	45559	27922	26251
55°	39540	13390	10112
60°	35710	6249	2500
65°	34647	3593	843
70°	31063	2869	785
75°	25523	2076	360
80°	19005	1010	0
85°	16417	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.6	5.3
10°-20°	501.5	16.1
20°-30°	766.2	24.6
30°-40°	801.4	25.7
40°-50°	519.9	16.7
50°-60°	206.4	6.6
60°-70°	97.9	3.1
70°-80°	46.6	1.5
80°-90°	9.5	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°	1432.3	46.0
0°-40°	2233.7	71.7
0°-60°	2960.0	95.1
0°-90°	3114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1704	1704	1704	1704	1704	
5°	1653	1668	1704	1746	1793	156
15°	1546	1620	1798	1910	1992	436
25°	1399	1487	1718	1834	1897	641
35°	1099	1166	1331	1409	1441	680
45°	692	686	622	660	668	539
55°	414	352	140	109	106	375
65°	267	222	28	6	6	261
75°	120	98	10	3	2	130
85°	26	16	0	0	0	30
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°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1682.4	1685.7	1667.8	1662.9	1675.9	1680.8	1682.4	1677.5	1679.2	1685.7	1685.7
5°	1653.1	1656.4	1640.1	1635.2	1648.2	1651.5	1656.4	1654.8	1659.7	1669.4	1667.8
7.5°	1625.4	1630.3	1612.4	1605.9	1622.2	1630.3	1633.6	1633.6	1640.1	1653.1	1654.8
10°	1594.5	1601.0	1584.7	1581.4	1599.4	1607.5	1609.2	1612.4	1622.2	1640.1	1643.3
12.5°	1568.4	1574.9	1563.5	1558.7	1578.2	1586.3	1589.6	1596.1	1607.5	1630.3	1633.6
15°	1545.6	1550.5	1537.5	1534.2	1553.8	1563.5	1565.1	1574.9	1589.6	1615.6	1620.5
17.5°	1516.3	1519.5	1509.8	1506.6	1526.1	1535.8	1537.5	1548.9	1566.8	1592.9	1601.0
20°	1482.1	1485.4	1475.6	1472.3	1491.9	1503.3	1504.9	1514.7	1535.8	1563.5	1571.7
22.5°	1441.4	1447.9	1436.5	1433.2	1452.8	1462.5	1467.4	1475.6	1496.8	1524.4	1535.8
25°	1399.1	1399.1	1390.9	1389.3	1407.2	1418.6	1416.9	1428.3	1449.5	1477.2	1487.0
27.5°	1343.7	1342.0	1333.9	1332.3	1351.8	1361.6	1358.3	1369.7	1389.3	1416.9	1426.7
30°	1270.4	1273.6	1262.2	1258.9	1275.3	1291.6	1289.9	1301.3	1320.8	1346.9	1353.5
32.5°	1182.4	1185.7	1184.1	1179.2	1193.8	1202.0	1206.9	1215.0	1231.3	1258.9	1265.5
35°	1099.4	1094.5	1088.0	1088.0	1102.6	1115.6	1110.7	1120.5	1136.8	1164.5	1166.1
37.5°	996.8	995.1	991.9	988.6	1004.9	1008.1	1009.8	1016.3	1031.0	1053.8	1050.5
40°	889.3	890.9	889.3	882.7	892.5	905.6	903.9	907.2	920.2	936.5	931.6
42.5°	788.3	788.3	788.3	781.8	793.2	799.7	803.0	801.3	804.5	819.2	812.7
45°	692.2	693.8	692.2	690.6	692.2	695.5	692.2	690.6	690.6	695.5	685.7
47.5°	609.1	609.1	604.3	599.4	604.3	605.8	601.0	596.1	594.5	592.9	576.6
50°	534.2	532.6	531.0	522.8	527.7	529.3	522.8	519.5	513.0	504.9	485.4
52.5°	469.1	467.4	465.8	457.6	460.9	462.5	456.1	449.5	441.4	434.9	410.4
55°	413.7	412.0	412.0	407.2	403.9	407.2	400.7	395.8	384.4	376.2	351.8
57.5°	366.4	366.4	363.2	358.3	359.9	359.9	353.5	346.9	337.1	327.4	307.8
60°	325.7	325.7	325.7	320.8	320.8	320.8	317.6	311.1	303.0	293.2	273.6
62.5°	293.2	293.2	291.5	286.7	288.3	288.3	285.0	278.5	270.4	263.8	244.3
65°	267.1	267.1	267.1	262.2	262.2	263.8	260.6	254.1	247.6	239.4	221.5
67.5°	234.5	232.9	232.9	229.6	231.3	232.9	229.6	224.8	216.6	211.7	195.5
70°	193.8	195.5	197.1	192.2	193.8	193.8	192.2	187.3	182.4	177.5	162.9
72.5°	158.0	158.0	156.3	154.8	154.8	156.3	153.1	148.2	145.0	141.7	130.3
75°	120.5	118.9	120.5	117.3	117.3	117.3	114.0	112.4	110.7	105.8	97.7
77.5°	88.0	86.3	86.3	83.1	84.7	84.7	83.1	79.8	76.5	74.9	68.4
80°	60.2	60.2	60.2	58.6	58.6	57.0	57.0	55.4	52.1	50.5	47.3
82.5°	40.7	40.7	40.7	39.1	39.1	39.1	37.5	35.8	34.2	32.6	29.3
85°	26.1	26.1	26.1	24.4	24.4	24.4	22.8	22.8	21.2	19.5	16.3
87.5°	14.6	14.6	14.6	13.0	13.0	13.0	13.0	13.0	11.4	9.8	8.1
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°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1697.1	1674.3	1688.9	1688.9	1684.1	1697.1	1705.3	1711.8	1710.1	1695.5	1693.8
5°	1684.1	1664.5	1680.8	1682.4	1677.5	1695.5	1706.9	1715.0	1716.6	1703.6	1705.3
7.5°	1674.3	1658.0	1679.2	1685.7	1684.1	1700.4	1713.4	1726.4	1732.9	1723.1	1724.8
10°	1669.4	1656.4	1679.2	1688.9	1690.6	1708.5	1728.0	1746.0	1754.1	1747.6	1752.5
12.5°	1662.9	1654.8	1680.8	1695.5	1702.0	1719.9	1744.3	1765.5	1778.5	1775.3	1785.0
15°	1656.4	1649.9	1680.8	1702.0	1710.1	1726.4	1754.1	1785.0	1799.7	1798.1	1811.1
17.5°	1640.1	1638.5	1671.0	1693.8	1705.3	1724.8	1750.8	1788.3	1803.0	1806.2	1822.5
20°	1614.1	1614.1	1649.9	1674.3	1687.3	1705.3	1737.8	1773.6	1791.6	1794.8	1812.8
22.5°	1578.2	1581.4	1615.6	1640.1	1659.7	1672.6	1706.9	1744.3	1760.6	1765.5	1785.0
25°	1531.0	1534.2	1566.8	1591.2	1612.4	1627.0	1659.7	1693.8	1713.4	1718.2	1732.9
27.5°	1469.1	1475.6	1506.6	1531.0	1548.9	1558.7	1592.9	1628.7	1643.3	1648.2	1662.9
30°	1397.4	1399.1	1430.0	1451.2	1469.1	1477.2	1506.6	1544.0	1555.4	1560.3	1581.4
32.5°	1309.4	1307.9	1337.2	1356.7	1371.3	1381.1	1412.0	1436.5	1447.9	1456.1	1467.4
35°	1203.6	1202.0	1223.1	1246.0	1257.4	1260.6	1291.6	1317.6	1324.1	1330.6	1345.3
37.5°	1084.7	1084.7	1102.6	1114.0	1127.0	1131.9	1146.6	1175.9	1187.3	1185.7	1197.1
40°	959.3	952.8	965.8	977.2	980.5	982.1	996.8	1019.5	1027.7	1027.7	1035.8
42.5°	827.4	817.6	819.2	825.7	829.0	817.6	827.4	842.0	837.1	843.7	845.3
45°	687.3	672.6	666.1	651.4	654.8	643.3	636.8	640.1	638.5	622.2	625.4
47.5°	573.3	547.3	535.8	514.7	509.8	496.8	488.6	473.9	460.9	460.9	452.7
50°	477.2	451.2	428.3	403.9	395.8	384.4	366.4	346.9	337.1	327.4	319.2
52.5°	400.7	373.0	345.3	319.2	307.8	293.2	268.7	249.2	231.3	221.5	211.7
55°	338.8	307.8	278.5	250.8	236.2	221.5	197.1	174.3	153.1	140.1	131.9
57.5°	291.5	262.2	231.3	201.9	188.9	172.6	146.6	122.1	102.6	88.0	79.8
60°	257.3	228.0	200.4	169.4	156.3	140.1	112.4	89.6	70.0	57.0	47.3
62.5°	228.0	201.9	172.6	145.0	131.9	115.6	89.6	66.8	48.8	35.8	27.7
65°	206.8	180.8	156.3	128.7	117.3	101.0	76.5	55.4	39.1	27.7	19.5
67.5°	182.4	159.6	135.2	112.4	101.0	88.0	65.1	47.3	32.6	22.8	16.3
70°	153.1	135.2	114.0	92.9	84.7	73.3	53.7	39.1	26.1	17.9	13.0
72.5°	122.1	107.5	91.2	74.9	68.4	57.0	44.0	31.0	19.5	13.0	9.8
75°	92.9	81.4	68.4	57.0	50.5	44.0	32.6	22.8	14.6	9.8	6.5
77.5°	63.5	58.6	48.8	39.1	35.8	31.0	21.2	14.6	9.8	6.5	3.2
80°	44.0	39.1	32.6	26.1	22.8	19.5	13.0	9.8	4.9	3.2	1.7
82.5°	27.7	22.8	19.5	16.3	14.6	11.4	8.1	4.9	3.2	1.7	1.7
85°	14.6	13.0	11.4	8.1	8.1	6.5	4.9	3.2	1.7	0.0	0.0
87.5°	8.1	6.5	4.9	3.2	3.2	1.7	1.7	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1713.4	1713.4	1711.8	1731.3	1708.5	1731.3	1719.9	1731.3	1715.0	1713.4	1715.0
5°	1726.4	1731.3	1732.9	1750.8	1729.7	1757.4	1747.6	1757.4	1746.0	1749.2	1754.1
7.5°	1752.5	1760.6	1759.0	1781.8	1760.6	1791.6	1785.0	1799.7	1788.3	1791.6	1798.1
10°	1781.8	1791.6	1793.2	1816.0	1796.4	1833.9	1825.7	1842.0	1832.3	1837.2	1845.3
12.5°	1816.0	1827.4	1829.0	1855.1	1833.9	1873.0	1868.1	1884.4	1876.2	1881.1	1890.9
15°	1842.0	1858.3	1861.6	1887.6	1864.8	1905.6	1902.3	1923.5	1910.5	1918.6	1926.7
17.5°	1855.1	1869.7	1876.2	1900.7	1881.1	1921.8	1918.6	1936.5	1926.7	1934.9	1944.7
20°	1846.9	1864.8	1869.7	1894.2	1874.6	1915.4	1910.5	1928.4	1918.6	1925.1	1934.9
22.5°	1817.6	1835.5	1842.0	1864.8	1846.9	1884.4	1882.8	1899.1	1886.0	1894.2	1902.3
25°	1765.5	1785.0	1788.3	1809.4	1789.9	1829.0	1825.7	1843.7	1833.9	1838.8	1850.2
27.5°	1690.6	1713.4	1718.2	1736.2	1721.5	1754.1	1754.1	1768.7	1757.4	1757.4	1768.7
30°	1601.0	1623.8	1627.0	1641.7	1628.7	1658.0	1659.7	1674.3	1656.4	1666.1	1667.8
32.5°	1491.9	1506.6	1516.3	1529.3	1509.8	1547.3	1542.4	1553.8	1544.0	1544.0	1552.2
35°	1359.9	1377.9	1382.8	1399.1	1382.8	1412.0	1412.0	1418.6	1408.8	1408.8	1421.8
37.5°	1216.6	1229.7	1231.3	1247.6	1234.5	1258.9	1257.4	1262.2	1252.5	1258.9	1258.9
40°	1048.9	1058.6	1061.9	1070.0	1068.4	1086.3	1084.7	1088.0	1083.1	1084.7	1088.0
42.5°	853.5	866.4	873.0	879.5	869.7	894.2	889.3	894.2	892.5	894.2	899.1
45°	628.7	638.5	643.3	645.0	641.7	656.3	667.7	658.0	659.6	656.3	662.9
47.5°	454.4	456.1	452.7	462.5	454.4	460.9	464.2	465.8	456.1	454.4	460.9
50°	311.1	319.2	307.8	312.7	311.1	317.6	314.3	316.0	306.2	311.1	307.8
52.5°	206.8	205.2	201.9	203.6	200.4	200.4	200.4	203.6	197.1	193.8	190.6
55°	125.4	122.1	115.6	114.0	114.0	115.6	112.4	109.1	109.1	107.5	107.5
57.5°	73.3	68.4	65.1	63.5	60.2	58.6	57.0	57.0	53.7	53.7	53.7
60°	40.7	35.8	32.6	29.3	29.3	27.7	26.1	24.4	24.4	24.4	22.8
62.5°	21.2	17.9	14.6	13.0	13.0	11.4	9.8	9.8	9.8	9.8	8.1
65°	14.6	11.4	9.8	8.1	8.1	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	11.4	9.8	8.1	6.5	6.5	6.5	4.9	4.9	4.9	4.9	4.9
70°	9.8	6.5	6.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	6.5	6.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	4.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
80°	1.7	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: P684950

CATALOG NUMBER: LX6C30D010 EX6309035 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1729.7	1728.0	1729.7	1732.9	1726.4	1746.0	1736.2	1746.0
5°	1767.1	1768.7	1770.4	1775.3	1767.1	1791.6	1778.5	1793.2
7.5°	1816.0	1817.6	1819.2	1824.1	1819.2	1843.7	1829.0	1842.0
10°	1866.5	1869.7	1869.7	1877.9	1873.0	1895.8	1886.0	1902.3
12.5°	1913.7	1916.9	1920.2	1925.1	1921.8	1946.3	1938.1	1951.2
15°	1951.2	1957.7	1959.3	1965.8	1962.5	1988.6	1978.8	1991.9
17.5°	1969.1	1975.6	1975.6	1983.7	1980.5	2008.2	1995.1	2009.8
20°	1959.3	1964.2	1965.8	1974.0	1970.7	1998.4	1985.4	2003.3
22.5°	1928.4	1930.0	1931.6	1939.8	1938.1	1962.5	1951.2	1962.5
25°	1871.3	1876.2	1874.6	1881.1	1881.1	1900.7	1887.6	1897.4
27.5°	1789.9	1794.8	1794.8	1803.0	1796.4	1816.0	1803.0	1817.6
30°	1690.6	1695.5	1692.2	1698.7	1692.2	1711.8	1702.0	1706.9
32.5°	1571.7	1571.7	1573.3	1574.9	1571.7	1589.6	1579.8	1589.6
35°	1430.0	1433.2	1434.9	1436.5	1433.2	1446.3	1434.9	1441.4
37.5°	1270.4	1278.5	1276.9	1278.5	1273.6	1289.9	1280.1	1283.4
40°	1099.4	1099.4	1097.7	1101.0	1096.1	1109.2	1102.6	1105.8
42.5°	900.7	905.6	899.1	907.2	894.2	912.0	905.6	900.7
45°	675.9	669.4	667.7	669.4	664.5	666.1	671.0	667.7
47.5°	460.9	460.9	457.6	452.7	459.3	460.9	454.4	454.4
50°	309.4	309.4	306.2	304.5	307.8	306.2	303.0	307.8
52.5°	197.1	190.6	190.6	193.8	190.6	187.3	192.2	188.9
55°	107.5	104.2	104.2	107.5	104.2	104.2	102.6	105.8
57.5°	52.1	53.7	52.1	52.1	52.1	52.1	50.5	52.1
60°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
62.5°	9.8	9.8	8.1	8.1	8.1	8.1	8.1	8.1
65°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	4.9	4.9	4.9	4.9	4.9	6.5	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	4.9	4.9	6.5	6.5	6.5	6.5	6.5	6.5
75°	3.2	3.2	3.2	1.7	1.7	1.7	1.7	1.7
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 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)