

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: P684286

Luminaire Tested: **LX6C40D010 EX6C409730 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C40D010 EX6C409730 6LCSWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

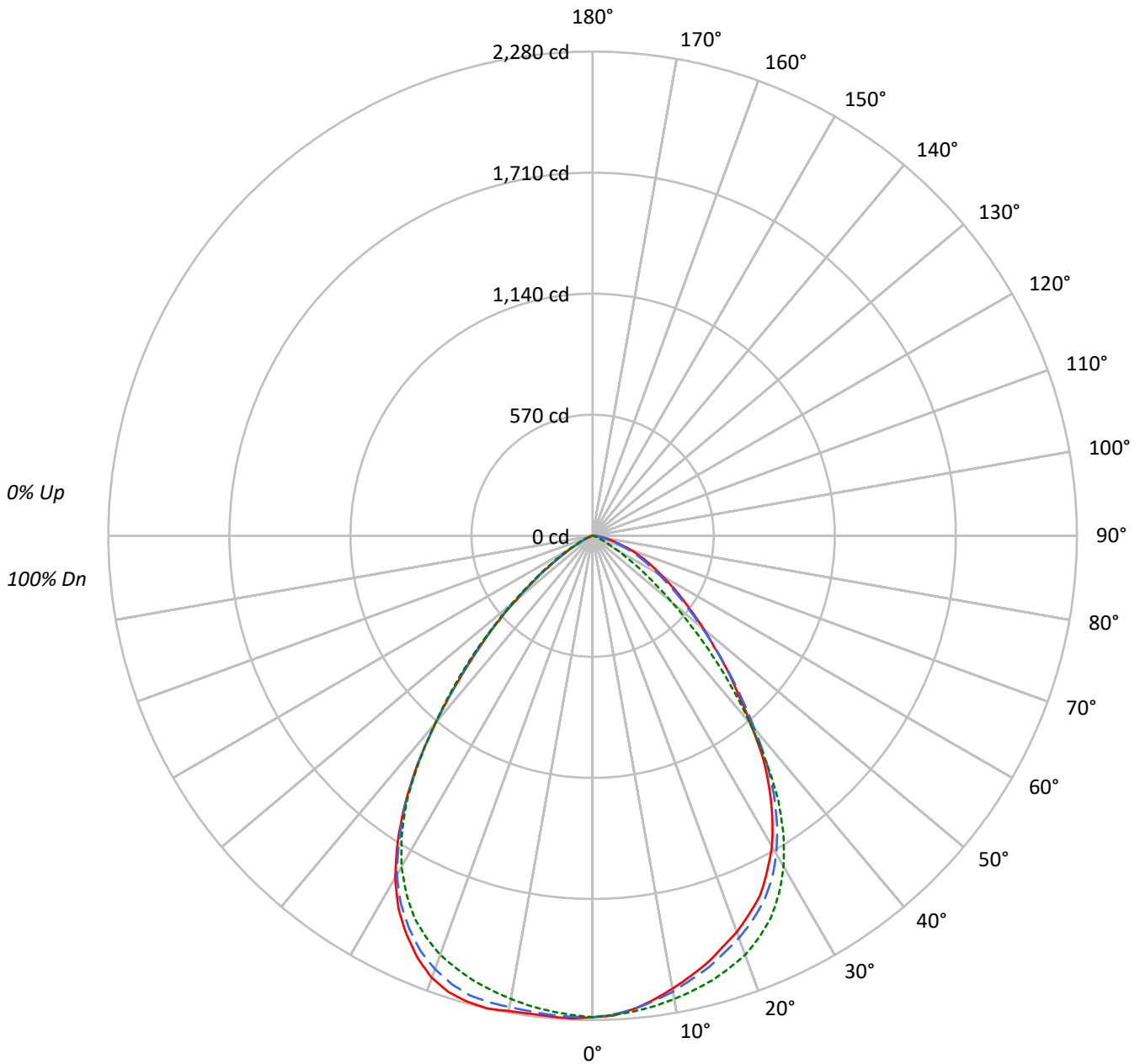
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3803.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47  
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	124272	124272	124272
5°	123085	123684	125044
10°	120550	123289	126490
15°	118241	123054	128962
20°	115790	122499	129208
25°	112936	120055	125354
30°	106928	113853	117670
35°	97105	102051	102968
40°	82877	82476	82090
45°	69612	61758	59851
50°	58139	41790	39692
55°	48935	25643	23292
60°	41422	13508	11710
65°	35866	7108	5682
70°	29829	4392	3061
75°	22049	2902	1737
80°	17300	1736	884
85°	13775	1761	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.6	5.6
10°-20°	611.7	16.1
20°-30°	903.3	23.8
30°-40°	930.9	24.5
40°-50°	643.0	16.9
50°-60°	316.9	8.3
60°-70°	128.4	3.4
70°-80°	45.8	1.2
80°-90°	9.5	0.2
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°	1728.6	45.5
0°-40°	2659.5	69.9
0°-60°	3619.4	95.2
0°-90°	3803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2267	2267	2267	2267	2267	
5°	2237	2237	2248	2264	2272	211
15°	2083	2105	2168	2240	2272	587
25°	1867	1903	1985	2042	2072	854
35°	1451	1487	1525	1533	1539	899
45°	898	903	797	786	772	694
55°	512	493	268	252	244	463
65°	276	249	55	44	44	275
75°	104	88	14	8	8	117
85°	22	16	3	0	0	27
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°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2261.3	2253.2	2258.6	2247.6	2261.3	2247.6	2250.4	2253.2	2250.4	2253.2	2255.8
5°	2236.7	2228.5	2236.7	2223.0	2236.7	2228.5	2228.5	2231.2	2231.2	2233.9	2236.7
7.5°	2203.9	2195.6	2203.9	2190.2	2206.5	2198.4	2198.4	2203.9	2201.1	2203.9	2209.3
10°	2165.6	2154.5	2162.8	2154.5	2171.0	2160.0	2165.6	2165.6	2165.6	2173.7	2179.3
12.5°	2124.5	2113.5	2124.5	2110.8	2127.2	2119.0	2121.7	2129.9	2132.6	2138.2	2140.9
15°	2083.4	2069.7	2075.2	2066.9	2083.4	2075.2	2077.9	2088.9	2088.9	2097.1	2105.3
17.5°	2031.4	2020.4	2031.4	2020.4	2034.1	2028.6	2034.1	2042.3	2042.3	2050.6	2058.7
20°	1984.8	1973.9	1982.1	1973.9	1990.3	1982.1	1984.8	1995.8	1998.5	2006.7	2014.9
22.5°	1927.3	1919.1	1924.6	1916.4	1932.8	1927.3	1930.1	1941.0	1943.8	1949.3	1963.0
25°	1867.1	1850.6	1858.9	1853.4	1869.9	1861.7	1867.1	1878.0	1883.6	1891.7	1902.7
27.5°	1779.5	1771.3	1776.7	1776.7	1790.4	1782.3	1785.0	1796.0	1804.1	1812.3	1826.0
30°	1689.2	1675.5	1681.0	1683.6	1694.7	1689.2	1694.7	1705.6	1708.4	1719.3	1730.2
32.5°	1574.2	1568.7	1579.7	1574.2	1579.7	1579.7	1582.3	1590.6	1596.0	1601.6	1615.3
35°	1451.0	1440.1	1451.0	1445.5	1459.2	1451.0	1459.2	1467.5	1467.5	1478.4	1486.6
37.5°	1316.8	1303.1	1308.6	1308.6	1314.1	1311.4	1311.4	1325.1	1327.8	1336.0	1344.2
40°	1158.1	1152.5	1163.5	1160.8	1163.5	1163.5	1166.2	1174.5	1179.9	1182.7	1185.5
42.5°	1015.7	1018.4	1021.2	1021.2	1021.2	1021.2	1021.2	1032.1	1029.4	1037.6	1040.3
45°	897.9	887.0	892.5	889.8	897.9	889.8	897.9	906.2	900.7	908.9	903.4
47.5°	777.5	777.5	777.5	774.8	780.3	777.5	782.9	785.7	785.7	785.7	782.9
50°	681.7	673.5	676.2	676.2	679.0	676.2	681.7	684.4	684.4	679.0	668.0
52.5°	588.6	585.9	585.9	591.3	591.3	588.6	588.6	588.6	588.6	580.4	574.9
55°	512.0	506.5	509.2	509.2	509.2	509.2	512.0	509.2	509.2	501.0	492.8
57.5°	443.5	438.1	438.1	438.1	440.7	438.1	438.1	438.1	435.3	427.0	416.1
60°	377.8	375.0	377.8	377.8	380.5	377.8	377.8	377.8	372.4	364.1	353.1
62.5°	323.1	323.1	323.1	325.7	325.7	323.1	323.1	320.3	317.6	306.6	295.7
65°	276.5	273.7	276.5	276.5	279.2	279.2	276.5	273.7	271.1	260.1	249.1
67.5°	230.0	227.2	230.0	230.0	232.7	230.0	230.0	230.0	221.8	216.3	205.3
70°	186.1	183.5	183.5	183.5	186.1	180.7	183.5	183.5	178.0	169.8	158.7
72.5°	142.4	142.4	142.4	142.4	142.4	142.4	139.6	139.6	134.1	125.9	120.5
75°	104.1	104.1	106.8	106.8	104.1	104.1	104.1	101.3	98.5	93.1	87.6
77.5°	76.7	76.7	76.7	76.7	73.9	73.9	73.9	71.1	68.5	65.7	60.2
80°	54.8	54.8	54.8	52.0	54.8	52.0	52.0	52.0	46.5	43.8	41.1
82.5°	38.3	35.6	35.6	35.6	35.6	35.6	35.6	32.8	32.8	30.2	27.4
85°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	19.1	16.5	16.5
87.5°	10.9	13.7	13.7	13.7	13.7	13.7	13.7	10.9	10.9	10.9	8.2
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°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2255.8	2255.8	2261.3	2253.2	2266.9	2258.6	2255.8	2269.5	2261.3	2258.6	2264.1
5°	2236.7	2239.5	2242.2	2236.7	2250.4	2242.2	2242.2	2255.8	2250.4	2247.6	2255.8
7.5°	2212.1	2214.8	2220.2	2217.6	2228.5	2223.0	2225.8	2239.5	2233.9	2233.9	2242.2
10°	2181.9	2187.4	2192.9	2192.9	2206.5	2201.1	2201.1	2217.6	2212.1	2214.8	2225.8
12.5°	2146.3	2154.5	2162.8	2165.6	2179.3	2171.0	2173.7	2192.9	2190.2	2192.9	2203.9
15°	2108.0	2119.0	2127.2	2127.2	2143.6	2135.4	2143.6	2162.8	2157.3	2168.2	2181.9
17.5°	2064.3	2075.2	2086.1	2088.9	2105.3	2099.8	2110.8	2129.9	2129.9	2135.4	2151.9
20°	2023.2	2036.9	2042.3	2050.6	2066.9	2064.3	2069.7	2091.6	2091.6	2099.8	2116.2
22.5°	1968.4	1982.1	1993.0	2001.3	2014.9	2014.9	2023.2	2042.3	2042.3	2047.8	2064.3
25°	1908.2	1924.6	1932.8	1941.0	1954.7	1951.9	1960.2	1976.6	1979.3	1984.8	2001.3
27.5°	1831.5	1845.2	1856.2	1861.7	1880.8	1869.9	1878.0	1897.3	1894.5	1899.9	1913.6
30°	1735.7	1749.4	1760.3	1760.3	1776.7	1776.7	1785.0	1793.2	1793.2	1798.6	1809.7
32.5°	1623.4	1639.9	1639.9	1648.1	1659.0	1648.1	1659.0	1670.0	1664.5	1672.7	1681.0
35°	1494.7	1503.0	1505.8	1505.8	1514.0	1511.2	1508.4	1516.7	1511.2	1524.9	1533.1
37.5°	1338.8	1349.7	1344.2	1349.7	1346.9	1338.8	1338.8	1352.5	1341.4	1344.2	1352.5
40°	1188.1	1188.1	1185.5	1171.8	1174.5	1166.2	1163.5	1166.2	1155.3	1152.5	1163.5
42.5°	1032.1	1029.4	1021.2	1002.0	1004.7	991.0	980.1	980.1	974.6	971.9	974.6
45°	892.5	884.2	870.5	848.7	843.2	832.3	810.3	804.9	796.6	796.6	799.4
47.5°	763.8	752.9	730.9	706.3	692.6	679.0	657.0	648.8	635.1	629.6	635.1
50°	657.0	637.9	610.5	574.9	561.2	544.8	522.9	509.2	495.5	490.0	487.3
52.5°	558.5	531.1	503.7	460.0	449.0	432.6	402.4	388.7	375.0	364.1	364.1
55°	473.6	449.0	410.7	369.6	353.1	336.8	306.6	287.4	273.7	268.3	262.8
57.5°	397.0	369.6	334.0	290.2	273.7	257.4	227.2	208.1	194.4	186.1	180.7
60°	334.0	303.9	268.3	230.0	210.8	194.4	164.3	145.1	131.4	123.2	117.7
62.5°	273.7	249.1	213.5	178.0	161.5	145.1	120.5	101.3	87.6	82.2	73.9
65°	230.0	205.3	172.4	142.4	128.7	112.2	90.4	73.9	63.0	54.8	49.3
67.5°	186.1	167.0	139.6	112.2	98.5	87.6	68.5	54.8	43.8	38.3	35.6
70°	147.8	128.7	106.8	84.8	76.7	65.7	52.0	38.3	32.8	27.4	24.6
72.5°	109.5	95.8	79.4	63.0	54.8	49.3	35.6	30.2	21.9	19.1	16.5
75°	79.4	68.5	57.4	43.8	38.3	35.6	27.4	19.1	16.5	13.7	10.9
77.5°	54.8	49.3	38.3	30.2	27.4	24.6	19.1	13.7	10.9	8.2	8.2
80°	35.6	30.2	24.6	19.1	19.1	16.5	10.9	8.2	8.2	5.5	5.5
82.5°	21.9	19.1	16.5	13.7	10.9	10.9	8.2	5.5	5.5	2.8	2.8
85°	13.7	10.9	8.2	8.2	5.5	5.5	5.5	2.8	2.8	2.8	2.8
87.5°	5.5	5.5	5.5	2.8	2.8	2.8	2.8	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2264.1	2264.1	2269.5	2261.3	2266.9	2266.9	2272.3	2261.3	2266.9	2269.5	2275.0
5°	2253.2	2255.8	2261.3	2258.6	2261.3	2261.3	2266.9	2253.2	2264.1	2264.1	2272.3
7.5°	2242.2	2242.2	2247.6	2244.9	2250.4	2253.2	2258.6	2247.6	2258.6	2258.6	2266.9
10°	2228.5	2228.5	2236.7	2233.9	2242.2	2244.9	2253.2	2242.2	2253.2	2255.8	2264.1
12.5°	2209.3	2212.1	2220.2	2220.2	2228.5	2233.9	2242.2	2236.7	2250.4	2253.2	2264.1
15°	2187.4	2192.9	2203.9	2201.1	2209.3	2217.6	2228.5	2220.2	2239.5	2244.9	2255.8
17.5°	2160.0	2165.6	2173.7	2173.7	2181.9	2187.4	2201.1	2195.6	2212.1	2214.8	2228.5
20°	2119.0	2127.2	2138.2	2135.4	2143.6	2149.1	2160.0	2154.5	2171.0	2176.5	2190.2
22.5°	2069.7	2075.2	2083.4	2083.4	2091.6	2097.1	2108.0	2099.8	2116.2	2119.0	2129.9
25°	2004.0	2009.5	2014.9	2017.7	2025.9	2028.6	2034.1	2028.6	2042.3	2045.1	2058.7
27.5°	1919.1	1921.9	1930.1	1930.1	1935.6	1938.2	1946.5	1935.6	1954.7	1954.7	1963.0
30°	1817.8	1815.1	1826.0	1820.6	1826.0	1826.0	1834.3	1828.8	1842.5	1837.0	1845.2
32.5°	1683.6	1689.2	1689.2	1683.6	1694.7	1691.9	1691.9	1686.4	1694.7	1697.3	1702.8
35°	1527.7	1535.8	1535.8	1538.6	1541.4	1533.1	1535.8	1519.4	1533.1	1535.8	1538.6
37.5°	1357.9	1349.7	1355.1	1346.9	1360.6	1344.2	1344.2	1333.3	1344.2	1344.2	1346.9
40°	1163.5	1160.8	1166.2	1160.8	1158.1	1155.3	1149.9	1141.6	1152.5	1147.1	1155.3
42.5°	980.1	977.3	977.3	971.9	969.2	969.2	963.7	958.2	955.5	955.5	969.2
45°	791.2	796.6	791.2	788.5	794.0	788.5	791.2	780.3	785.7	780.3	785.7
47.5°	632.4	635.1	629.6	624.2	632.4	624.2	624.2	616.0	627.0	627.0	621.4
50°	490.0	487.3	481.8	487.3	484.6	484.6	484.6	476.4	481.8	473.6	479.1
52.5°	361.4	358.7	358.7	355.9	358.7	355.9	355.9	353.1	353.1	350.4	353.1
55°	262.8	260.1	254.6	254.6	254.6	257.4	254.6	251.9	251.9	249.1	251.9
57.5°	178.0	172.4	172.4	172.4	172.4	169.8	169.8	167.0	169.8	167.0	169.8
60°	115.0	115.0	109.5	109.5	109.5	109.5	109.5	106.8	109.5	109.5	109.5
62.5°	71.1	71.1	68.5	65.7	68.5	65.7	65.7	65.7	68.5	65.7	68.5
65°	46.5	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
67.5°	32.8	30.2	30.2	30.2	30.2	30.2	30.2	27.4	30.2	30.2	30.2
70°	21.9	21.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
72.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
75°	10.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	8.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	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	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: P684286

CATALOG NUMBER: LX6C40D010 EX6C409730 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2266.9	2269.5	2264.1	2266.9	2261.3	2266.9	2269.5	2275.0
5°	2261.3	2264.1	2258.6	2264.1	2258.6	2264.1	2266.9	2272.3
7.5°	2255.8	2261.3	2255.8	2261.3	2255.8	2261.3	2264.1	2269.5
10°	2255.8	2264.1	2258.6	2266.9	2258.6	2264.1	2269.5	2272.3
12.5°	2255.8	2264.1	2261.3	2266.9	2264.1	2269.5	2275.0	2280.5
15°	2250.4	2258.6	2253.2	2261.3	2258.6	2261.3	2272.3	2272.3
17.5°	2220.2	2228.5	2228.5	2233.9	2233.9	2242.2	2247.6	2253.2
20°	2181.9	2190.2	2187.4	2195.6	2195.6	2203.9	2209.3	2214.8
22.5°	2124.5	2135.4	2132.6	2140.9	2138.2	2143.6	2154.5	2151.9
25°	2050.6	2064.3	2061.5	2066.9	2064.3	2064.3	2069.7	2072.4
27.5°	1960.2	1968.4	1965.6	1971.2	1965.6	1971.2	1976.6	1979.3
30°	1842.5	1848.0	1845.2	1848.0	1845.2	1850.6	1853.4	1858.9
32.5°	1700.1	1708.4	1700.1	1705.6	1702.8	1702.8	1713.8	1708.4
35°	1530.4	1533.1	1535.8	1535.8	1530.4	1533.1	1538.6	1538.6
37.5°	1341.4	1355.1	1338.8	1346.9	1344.2	1344.2	1344.2	1352.5
40°	1144.4	1147.1	1141.6	1141.6	1141.6	1138.8	1149.9	1147.1
42.5°	958.2	960.9	958.2	950.0	952.7	952.7	960.9	950.0
45°	777.5	782.9	780.3	780.3	774.8	774.8	777.5	772.0
47.5°	616.0	621.4	613.3	616.0	610.5	616.0	613.3	618.7
50°	468.1	473.6	470.9	473.6	473.6	468.1	476.4	465.4
52.5°	350.4	353.1	350.4	347.7	345.0	345.0	350.4	347.7
55°	249.1	246.4	246.4	246.4	249.1	249.1	246.4	243.7
57.5°	167.0	167.0	164.3	164.3	167.0	161.5	164.3	161.5
60°	106.8	106.8	106.8	106.8	104.1	106.8	106.8	106.8
62.5°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
65°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
67.5°	27.4	30.2	30.2	30.2	27.4	27.4	27.4	27.4
70°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
72.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	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)