

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: P684284

Luminaire Tested: **LX6C40D010 EX6C409727 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684284
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 EX6C409727 6LCSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

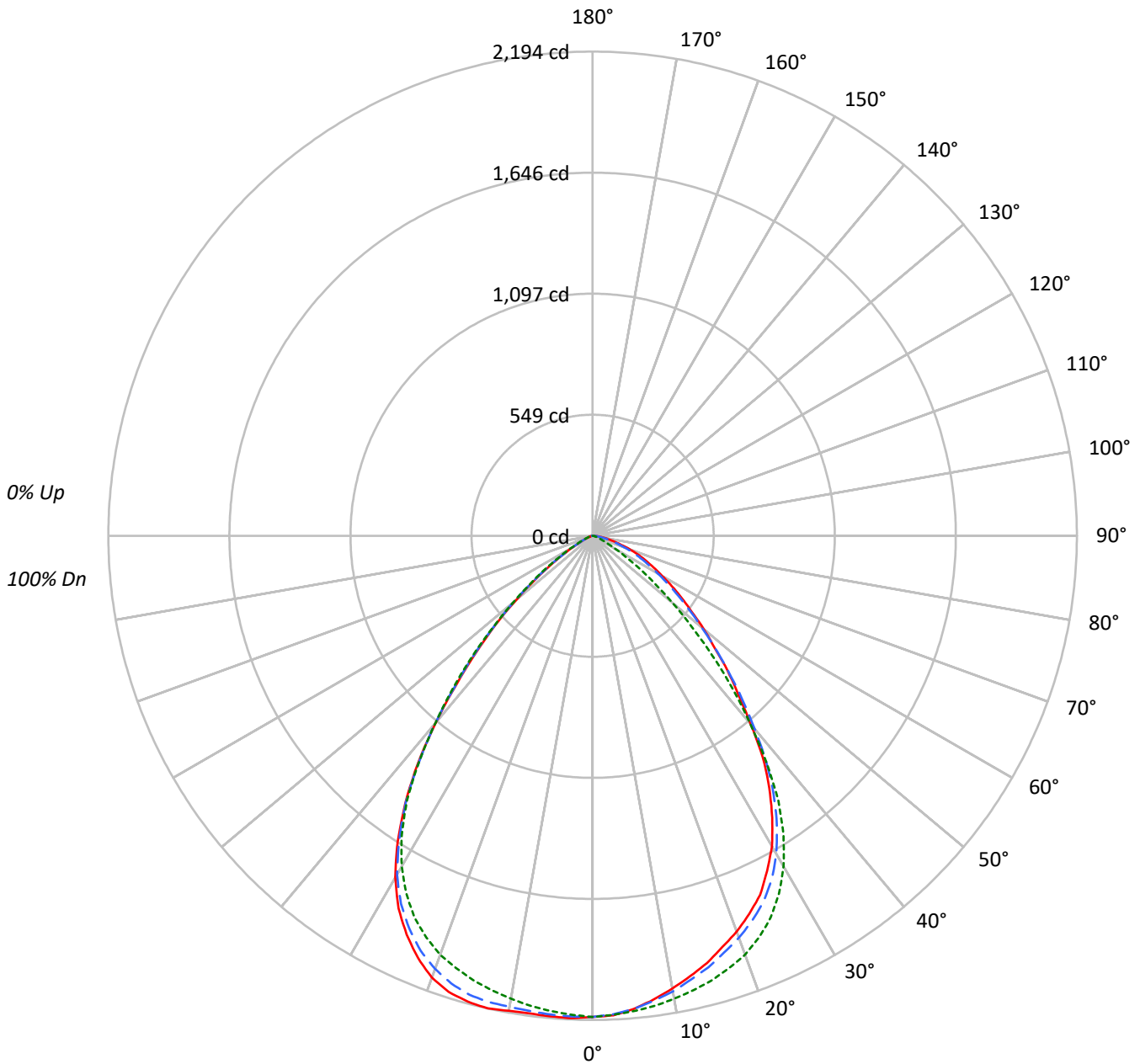
Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
Input Current (A_{in}): 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°	119530	119530	119530
5°	118391	118968	120278
10°	115952	118585	121669
15°	113735	118366	124047
20°	111374	117826	124278
25°	108629	115476	120576
30°	102851	109517	113182
35°	93405	98163	99039
40°	79714	79334	78955
45°	66960	59409	57572
50°	55921	40203	38182
55°	47071	24668	22403
60°	39843	12992	11260
65°	34504	6836	5461
70°	28691	4215	2949
75°	21202	2796	1673
80°	16637	1642	852
85°	13272	1698	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	5.6
10°-20°	588.4	16.1
20°-30°	868.8	23.8
30°-40°	895.4	24.5
40°-50°	618.4	16.9
50°-60°	304.8	8.3
60°-70°	123.5	3.4
70°-80°	44.0	1.2
80°-90°	9.1	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°	1662.7	45.5
0°-40°	2558.1	69.9
0°-60°	3481.4	95.2
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2180	2180	2180	2180	2180	
5°	2151	2151	2162	2178	2186	203
15°	2004	2025	2086	2154	2186	564
25°	1796	1830	1909	1964	1993	821
35°	1396	1430	1467	1475	1480	865
45°	864	869	766	756	743	668
55°	492	474	258	242	234	445
65°	266	240	53	42	42	264
75°	100	84	13	8	8	112
85°	21	16	3	0	0	26
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°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2175.1	2167.3	2172.5	2161.9	2175.1	2161.9	2164.6	2167.3	2164.6	2167.3	2169.8
5°	2151.4	2143.5	2151.4	2138.2	2151.4	2143.5	2143.5	2146.2	2146.2	2148.7	2151.4
7.5°	2119.8	2111.9	2119.8	2106.7	2122.4	2114.6	2114.6	2119.8	2117.2	2119.8	2125.1
10°	2083.0	2072.4	2080.3	2072.4	2088.2	2077.6	2083.0	2083.0	2083.0	2090.8	2096.2
12.5°	2043.5	2032.9	2043.5	2030.3	2046.1	2038.2	2040.8	2048.7	2051.3	2056.7	2059.2
15°	2004.0	1990.8	1996.0	1988.1	2004.0	1996.0	1998.7	2009.2	2009.2	2017.1	2025.1
17.5°	1954.0	1943.4	1954.0	1943.4	1956.5	1951.3	1956.5	1964.5	1964.5	1972.4	1980.2
20°	1909.1	1898.6	1906.5	1898.6	1914.5	1906.5	1909.1	1919.7	1922.3	1930.2	1938.1
22.5°	1853.8	1845.9	1851.2	1843.4	1859.1	1853.8	1856.5	1867.0	1869.7	1874.9	1888.1
25°	1795.9	1780.1	1788.0	1782.7	1798.6	1790.7	1795.9	1806.4	1811.8	1819.6	1830.2
27.5°	1711.6	1703.7	1709.0	1709.0	1722.1	1714.3	1716.9	1727.5	1735.3	1743.2	1756.4
30°	1624.8	1611.6	1616.9	1619.5	1630.1	1624.8	1630.1	1640.5	1643.2	1653.7	1664.2
32.5°	1514.2	1508.8	1519.4	1514.2	1519.4	1519.4	1522.0	1529.9	1535.2	1540.5	1553.7
35°	1395.7	1385.2	1395.7	1390.4	1403.6	1395.7	1403.6	1411.5	1411.5	1422.0	1429.9
37.5°	1266.6	1253.5	1258.7	1258.7	1264.0	1261.4	1261.4	1274.6	1277.1	1285.0	1293.0
40°	1113.9	1108.6	1119.2	1116.5	1119.2	1119.2	1121.8	1129.7	1134.9	1137.6	1140.3
42.5°	977.0	979.6	982.2	982.2	982.2	982.2	982.2	992.7	990.2	998.1	1000.6
45°	863.7	853.2	858.4	855.9	863.7	855.9	863.7	871.6	866.4	874.3	868.9
47.5°	747.8	747.8	747.8	745.3	750.5	747.8	753.1	755.8	755.8	755.8	753.1
50°	655.7	647.8	650.4	650.4	653.1	650.4	655.7	658.3	658.3	653.1	642.6
52.5°	566.1	563.6	563.6	568.8	568.8	566.1	566.1	566.1	566.1	558.3	553.0
55°	492.5	487.2	489.8	489.8	489.8	489.8	492.5	489.8	489.8	481.9	474.0
57.5°	426.6	421.4	421.4	421.4	423.9	421.4	421.4	421.4	418.7	410.8	400.3
60°	363.4	360.7	363.4	363.4	366.0	363.4	363.4	363.4	358.2	350.3	339.7
62.5°	310.7	310.7	310.7	313.3	313.3	310.7	310.7	308.1	305.5	294.9	284.4
65°	266.0	263.3	266.0	266.0	268.6	268.6	266.0	263.3	260.7	250.1	239.6
67.5°	221.2	218.5	221.2	221.2	223.8	221.2	221.2	221.2	213.3	208.1	197.5
70°	179.0	176.5	176.5	176.5	179.0	173.8	176.5	176.5	171.2	163.3	152.7
72.5°	137.0	137.0	137.0	137.0	137.0	137.0	134.3	134.3	129.0	121.1	115.9
75°	100.1	100.1	102.7	102.7	100.1	100.1	100.1	97.4	94.8	89.5	84.3
77.5°	73.8	73.8	73.8	73.8	71.1	71.1	71.1	68.4	65.9	63.2	57.9
80°	52.7	52.7	52.7	50.0	52.7	50.0	50.0	50.0	44.8	42.1	39.5
82.5°	36.8	34.3	34.3	34.3	34.3	34.3	34.3	31.6	31.6	29.0	26.3
85°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	18.4	15.8	15.8
87.5°	10.5	13.2	13.2	13.2	13.2	13.2	13.2	10.5	10.5	10.5	7.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2169.8	2169.8	2175.1	2167.3	2180.4	2172.5	2169.8	2183.0	2175.1	2172.5	2177.8
5°	2151.4	2154.1	2156.7	2151.4	2164.6	2156.7	2156.7	2169.8	2164.6	2161.9	2169.8
7.5°	2127.8	2130.3	2135.6	2133.0	2143.5	2138.2	2140.9	2154.1	2148.7	2148.7	2156.7
10°	2098.7	2104.0	2109.3	2109.3	2122.4	2117.2	2117.2	2133.0	2127.8	2130.3	2140.9
12.5°	2064.5	2072.4	2080.3	2083.0	2096.2	2088.2	2090.8	2109.3	2106.7	2109.3	2119.8
15°	2027.6	2038.2	2046.1	2046.1	2061.9	2054.0	2061.9	2080.3	2075.1	2085.6	2098.7
17.5°	1985.6	1996.0	2006.5	2009.2	2025.1	2019.7	2030.3	2048.7	2048.7	2054.0	2069.8
20°	1946.0	1959.2	1964.5	1972.4	1988.1	1985.6	1990.8	2011.9	2011.9	2019.7	2035.6
22.5°	1893.4	1906.5	1917.0	1924.9	1938.1	1938.1	1946.0	1964.5	1964.5	1969.7	1985.6
25°	1835.4	1851.2	1859.1	1867.0	1880.2	1877.5	1885.4	1901.3	1903.9	1909.1	1924.9
27.5°	1761.7	1774.8	1785.4	1790.7	1809.1	1798.6	1806.4	1824.9	1822.3	1827.5	1840.7
30°	1669.6	1682.7	1693.2	1693.2	1709.0	1709.0	1716.9	1724.8	1724.8	1730.1	1740.7
32.5°	1561.5	1577.4	1577.4	1585.3	1595.8	1585.3	1595.8	1606.3	1601.0	1609.0	1616.9
35°	1437.7	1445.7	1448.3	1448.3	1456.3	1453.6	1450.9	1458.8	1453.6	1466.8	1474.7
37.5°	1287.7	1298.2	1293.0	1298.2	1295.5	1287.7	1287.7	1300.9	1290.3	1293.0	1300.9
40°	1142.8	1142.8	1140.3	1127.1	1129.7	1121.8	1119.2	1121.8	1111.3	1108.6	1119.2
42.5°	992.7	990.2	982.2	963.8	966.4	953.2	942.7	942.7	937.5	934.8	937.5
45°	858.4	850.5	837.4	816.4	811.0	800.5	779.4	774.2	766.3	766.3	768.9
47.5°	734.7	724.2	703.1	679.4	666.2	653.1	632.0	624.1	610.9	605.6	610.9
50°	632.0	613.6	587.2	553.0	539.8	524.0	502.9	489.8	476.6	471.4	468.7
52.5°	537.2	510.9	484.5	442.4	431.8	416.1	387.1	373.9	360.7	350.3	350.3
55°	455.5	431.8	395.0	355.5	339.7	323.9	294.9	276.5	263.3	258.1	252.8
57.5°	381.8	355.5	321.2	279.2	263.3	247.6	218.5	200.1	187.0	179.0	173.8
60°	321.2	292.3	258.1	221.2	202.8	187.0	158.0	139.5	126.4	118.5	113.2
62.5°	263.3	239.6	205.4	171.2	155.4	139.5	115.9	97.4	84.3	79.0	71.1
65°	221.2	197.5	165.9	137.0	123.8	107.9	86.9	71.1	60.6	52.7	47.4
67.5°	179.0	160.6	134.3	107.9	94.8	84.3	65.9	52.7	42.1	36.8	34.3
70°	142.2	123.8	102.7	81.6	73.8	63.2	50.0	36.8	31.6	26.3	23.7
72.5°	105.4	92.2	76.3	60.6	52.7	47.4	34.3	29.0	21.1	18.4	15.8
75°	76.3	65.9	55.3	42.1	36.8	34.3	26.3	18.4	15.8	13.2	10.5
77.5°	52.7	47.4	36.8	29.0	26.3	23.7	18.4	13.2	10.5	7.9	7.9
80°	34.3	29.0	23.7	18.4	18.4	15.8	10.5	7.9	7.9	5.2	5.2
82.5°	21.1	18.4	15.8	13.2	10.5	10.5	7.9	5.2	5.2	2.7	2.7
85°	13.2	10.5	7.9	7.9	5.2	5.2	5.2	2.7	2.7	2.7	2.7
87.5°	5.2	5.2	5.2	2.7	2.7	2.7	2.7	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°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2177.8	2177.8	2183.0	2175.1	2180.4	2180.4	2185.7	2175.1	2180.4	2183.0	2188.3
5°	2167.3	2169.8	2175.1	2172.5	2175.1	2175.1	2180.4	2167.3	2177.8	2177.8	2185.7
7.5°	2156.7	2156.7	2161.9	2159.3	2164.6	2167.3	2172.5	2161.9	2172.5	2172.5	2180.4
10°	2143.5	2143.5	2151.4	2148.7	2156.7	2159.3	2167.3	2156.7	2167.3	2169.8	2177.8
12.5°	2125.1	2127.8	2135.6	2135.6	2143.5	2148.7	2156.7	2151.4	2164.6	2167.3	2177.8
15°	2104.0	2109.3	2119.8	2117.2	2125.1	2133.0	2143.5	2135.6	2154.1	2159.3	2169.8
17.5°	2077.6	2083.0	2090.8	2090.8	2098.7	2104.0	2117.2	2111.9	2127.8	2130.3	2143.5
20°	2038.2	2046.1	2056.7	2054.0	2061.9	2067.1	2077.6	2072.4	2088.2	2093.5	2106.7
22.5°	1990.8	1996.0	2004.0	2004.0	2011.9	2017.1	2027.6	2019.7	2035.6	2038.2	2048.7
25°	1927.6	1932.9	1938.1	1940.8	1948.6	1951.3	1956.5	1951.3	1964.5	1967.1	1980.2
27.5°	1845.9	1848.6	1856.5	1856.5	1861.8	1864.3	1872.3	1861.8	1880.2	1880.2	1888.1
30°	1748.5	1745.9	1756.4	1751.2	1756.4	1756.4	1764.3	1759.1	1772.3	1767.0	1774.8
32.5°	1619.5	1624.8	1624.8	1619.5	1630.1	1627.4	1627.4	1622.1	1630.1	1632.6	1637.9
35°	1469.4	1477.3	1477.3	1479.9	1482.6	1474.7	1477.3	1461.5	1474.7	1477.3	1479.9
37.5°	1306.1	1298.2	1303.5	1295.5	1308.7	1293.0	1293.0	1282.5	1293.0	1293.0	1295.5
40°	1119.2	1116.5	1121.8	1116.5	1113.9	1111.3	1106.0	1098.1	1108.6	1103.3	1111.3
42.5°	942.7	940.0	940.0	934.8	932.2	932.2	927.0	921.6	919.1	919.1	932.2
45°	761.0	766.3	761.0	758.4	763.7	758.4	761.0	750.5	755.8	750.5	755.8
47.5°	608.3	610.9	605.6	600.4	608.3	600.4	600.4	592.5	603.1	603.1	597.7
50°	471.4	468.7	463.4	468.7	466.1	466.1	466.1	458.2	463.4	455.5	460.9
52.5°	347.6	345.0	345.0	342.3	345.0	342.3	342.3	339.7	339.7	337.1	339.7
55°	252.8	250.1	244.9	244.9	244.9	247.6	244.9	242.3	242.3	239.6	242.3
57.5°	171.2	165.9	165.9	165.9	165.9	163.3	163.3	160.6	163.3	160.6	163.3
60°	110.6	110.6	105.4	105.4	105.4	105.4	105.4	102.7	105.4	105.4	105.4
62.5°	68.4	68.4	65.9	63.2	65.9	63.2	63.2	63.2	65.9	63.2	65.9
65°	44.8	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
67.5°	31.6	29.0	29.0	29.0	29.0	29.0	29.0	26.3	29.0	29.0	29.0
70°	21.1	21.1	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
72.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
75°	10.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
77.5°	7.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	5.2	5.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	2.7	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	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P684284

CATALOG NUMBER: LX6C40D010 EX6C409727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2180.4	2183.0	2177.8	2180.4	2175.1	2180.4	2183.0	2188.3
5°	2175.1	2177.8	2172.5	2177.8	2172.5	2177.8	2180.4	2185.7
7.5°	2169.8	2175.1	2169.8	2175.1	2169.8	2175.1	2177.8	2183.0
10°	2169.8	2177.8	2172.5	2180.4	2172.5	2177.8	2183.0	2185.7
12.5°	2169.8	2177.8	2175.1	2180.4	2177.8	2183.0	2188.3	2193.5
15°	2164.6	2172.5	2167.3	2175.1	2172.5	2175.1	2185.7	2185.7
17.5°	2135.6	2143.5	2143.5	2148.7	2148.7	2156.7	2161.9	2167.3
20°	2098.7	2106.7	2104.0	2111.9	2111.9	2119.8	2125.1	2130.3
22.5°	2043.5	2054.0	2051.3	2059.2	2056.7	2061.9	2072.4	2069.8
25°	1972.4	1985.6	1982.9	1988.1	1985.6	1985.6	1990.8	1993.4
27.5°	1885.4	1893.4	1890.7	1896.0	1890.7	1896.0	1901.3	1903.9
30°	1772.3	1777.5	1774.8	1777.5	1774.8	1780.1	1782.7	1788.0
32.5°	1635.3	1643.2	1635.3	1640.5	1637.9	1637.9	1648.5	1643.2
35°	1472.0	1474.7	1477.3	1477.3	1472.0	1474.7	1479.9	1479.9
37.5°	1290.3	1303.5	1287.7	1295.5	1293.0	1293.0	1293.0	1300.9
40°	1100.8	1103.3	1098.1	1098.1	1098.1	1095.4	1106.0	1103.3
42.5°	921.6	924.3	921.6	913.8	916.4	916.4	924.3	913.8
45°	747.8	753.1	750.5	750.5	745.3	745.3	747.8	742.6
47.5°	592.5	597.7	589.9	592.5	587.2	592.5	589.9	595.1
50°	450.3	455.5	452.9	455.5	455.5	450.3	458.2	447.7
52.5°	337.1	339.7	337.1	334.4	331.8	331.8	337.1	334.4
55°	239.6	237.0	237.0	237.0	239.6	239.6	237.0	234.4
57.5°	160.6	160.6	158.0	158.0	160.6	155.4	158.0	155.4
60°	102.7	102.7	102.7	102.7	100.1	102.7	102.7	102.7
62.5°	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
65°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
67.5°	26.3	29.0	29.0	29.0	26.3	26.3	26.3	26.3
70°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
72.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	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)