

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: P684275

Luminaire Tested: **LX6C40D010 EX6C409040 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684275
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 EX6C409040 6LCSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

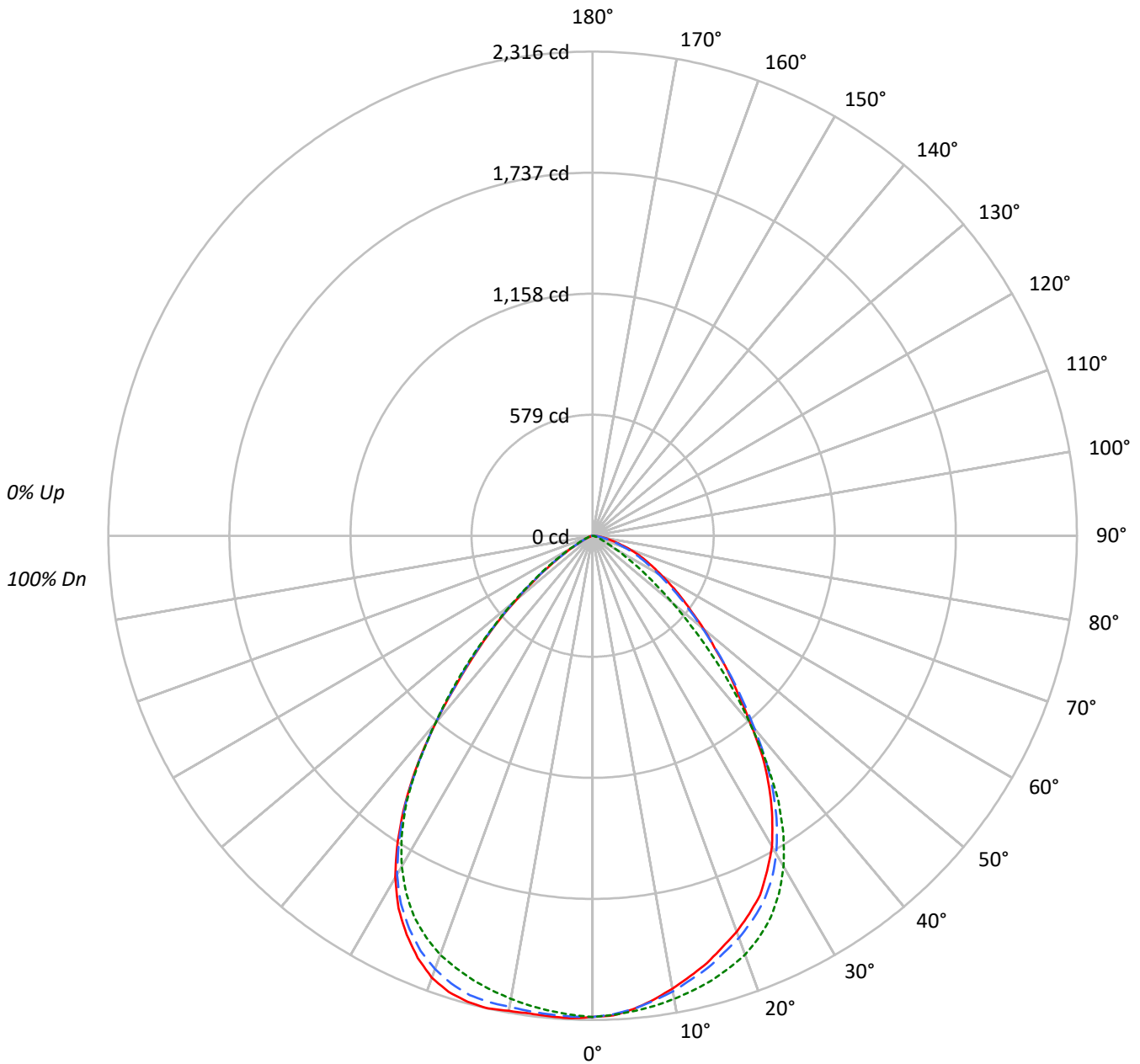
Lumens per Lamp: N/A
Luminaire Lumens: 3862.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	126196	126196	126196
5°	124994	125605	126986
10°	122420	125198	128455
15°	120074	124967	130966
20°	117587	124401	131209
25°	114690	121918	127296
30°	108586	115619	119493
35°	98611	103637	104567
40°	84165	83757	83363
45°	70697	62720	60782
50°	59043	42438	40314
55°	49690	26044	23655
60°	42069	13716	11885
65°	36424	7212	5759
70°	30294	4456	3109
75°	22388	2944	1779
80°	17553	1736	884
85°	14026	1761	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	5.6
10°-20°	621.2	16.1
20°-30°	917.3	23.8
30°-40°	945.3	24.5
40°-50°	652.9	16.9
50°-60°	321.8	8.3
60°-70°	130.4	3.4
70°-80°	46.5	1.2
80°-90°	9.6	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°	1755.4	45.5
0°-40°	2700.7	69.9
0°-60°	3675.5	95.2
0°-90°	3862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2302	2302	2302	2302	2302	
5°	2271	2271	2282	2299	2308	215
15°	2116	2138	2202	2274	2308	596
25°	1896	1932	2016	2074	2104	867
35°	1474	1510	1549	1557	1562	913
45°	912	917	809	798	784	705
55°	520	500	272	256	248	470
65°	281	253	56	44	44	279
75°	106	89	14	8	8	119
85°	22	17	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°	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0
2.5°	2296.4	2288.1	2293.7	2282.5	2296.4	2282.5	2285.3	2288.1	2285.3	2288.1	2290.8
5°	2271.4	2263.0	2271.4	2257.5	2271.4	2263.0	2263.0	2265.9	2265.9	2268.6	2271.4
7.5°	2238.0	2229.7	2238.0	2224.1	2240.8	2232.5	2232.5	2238.0	2235.2	2238.0	2243.6
10°	2199.2	2188.0	2196.3	2188.0	2204.7	2193.5	2199.2	2199.2	2199.2	2207.4	2213.1
12.5°	2157.4	2146.3	2157.4	2143.5	2160.2	2151.9	2154.6	2163.0	2165.7	2171.3	2174.1
15°	2115.7	2101.8	2107.4	2099.0	2115.7	2107.4	2110.2	2121.3	2121.3	2129.6	2138.0
17.5°	2062.9	2051.7	2062.9	2051.7	2065.6	2060.1	2065.6	2074.0	2074.0	2082.4	2090.6
20°	2015.6	2004.5	2012.9	2004.5	2021.2	2012.9	2015.6	2026.8	2029.5	2037.8	2046.2
22.5°	1957.2	1948.9	1954.4	1946.2	1962.8	1957.2	1960.1	1971.1	1974.0	1979.5	1993.4
25°	1896.1	1879.3	1887.7	1882.2	1898.9	1890.5	1896.1	1907.2	1912.8	1921.1	1932.2
27.5°	1807.1	1798.7	1804.3	1804.3	1818.2	1809.9	1812.6	1823.8	1832.1	1840.5	1854.4
30°	1715.4	1701.5	1707.1	1709.8	1721.0	1715.4	1721.0	1732.0	1734.9	1745.9	1757.0
32.5°	1598.6	1593.0	1604.2	1598.6	1604.2	1604.2	1606.9	1615.3	1620.8	1626.4	1640.4
35°	1473.5	1462.4	1473.5	1468.0	1481.9	1473.5	1481.9	1490.2	1490.2	1501.3	1509.7
37.5°	1337.3	1323.4	1328.9	1328.9	1334.4	1331.7	1331.7	1345.6	1348.3	1356.7	1365.1
40°	1176.1	1170.4	1181.6	1178.8	1181.6	1181.6	1184.3	1192.7	1198.2	1201.0	1203.9
42.5°	1031.5	1034.2	1037.0	1037.0	1037.0	1037.0	1037.0	1048.1	1045.4	1053.7	1056.5
45°	911.9	900.8	906.3	903.6	911.9	903.6	911.9	920.2	914.7	923.1	917.4
47.5°	789.5	789.5	789.5	786.8	792.4	789.5	795.1	797.9	797.9	797.9	795.1
50°	692.3	683.9	686.7	686.7	689.5	686.7	692.3	695.0	695.0	689.5	678.4
52.5°	597.7	595.0	595.0	600.5	600.5	597.7	597.7	597.7	597.7	589.4	583.8
55°	519.9	514.4	517.1	517.1	517.1	517.1	519.9	517.1	517.1	508.7	500.5
57.5°	450.4	444.8	444.8	444.8	447.6	444.8	444.8	444.8	442.0	433.7	422.6
60°	383.7	380.9	383.7	383.7	386.4	383.7	383.7	383.7	378.1	369.8	358.6
62.5°	328.1	328.1	328.1	330.8	330.8	328.1	328.1	325.2	322.5	311.3	300.3
65°	280.8	278.0	280.8	280.8	283.5	283.5	280.8	278.0	275.3	264.1	253.0
67.5°	233.6	230.7	233.6	233.6	236.3	233.6	233.6	233.6	225.2	219.7	208.5
70°	189.0	186.3	186.3	186.3	189.0	183.5	186.3	186.3	180.8	172.4	161.2
72.5°	144.6	144.6	144.6	144.6	144.6	144.6	141.8	141.8	136.2	127.9	122.3
75°	105.7	105.7	108.4	108.4	105.7	105.7	105.7	102.9	100.1	94.5	89.0
77.5°	77.9	77.9	77.9	77.9	75.1	75.1	75.1	72.2	69.5	66.7	61.2
80°	55.6	55.6	55.6	52.8	55.6	52.8	52.8	52.8	47.3	44.4	41.7
82.5°	38.9	36.2	36.2	36.2	36.2	36.2	36.2	33.4	33.4	30.6	27.8
85°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	19.4	16.7	16.7
87.5°	11.1	13.9	13.9	13.9	13.9	13.9	13.9	11.1	11.1	11.1	8.4
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°	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0
2.5°	2290.8	2290.8	2296.4	2288.1	2302.0	2293.7	2290.8	2304.8	2296.4	2293.7	2299.2
5°	2271.4	2274.2	2276.9	2271.4	2285.3	2276.9	2276.9	2290.8	2285.3	2282.5	2290.8
7.5°	2246.4	2249.1	2254.7	2252.0	2263.0	2257.5	2260.3	2274.2	2268.6	2268.6	2276.9
10°	2215.8	2221.3	2227.0	2227.0	2240.8	2235.2	2235.2	2252.0	2246.4	2249.1	2260.3
12.5°	2179.6	2188.0	2196.3	2199.2	2213.1	2204.7	2207.4	2227.0	2224.1	2227.0	2238.0
15°	2140.7	2151.9	2160.2	2160.2	2176.9	2168.5	2176.9	2196.3	2190.8	2201.9	2215.8
17.5°	2096.3	2107.4	2118.4	2121.3	2138.0	2132.4	2143.5	2163.0	2163.0	2168.5	2185.3
20°	2054.6	2068.5	2074.0	2082.4	2099.0	2096.3	2101.8	2124.1	2124.1	2132.4	2149.1
22.5°	1998.9	2012.9	2023.9	2032.3	2046.2	2046.2	2054.6	2074.0	2074.0	2079.6	2096.3
25°	1937.8	1954.4	1962.8	1971.1	1985.0	1982.2	1990.6	2007.3	2010.0	2015.6	2032.3
27.5°	1859.9	1873.8	1885.0	1890.5	1910.0	1898.9	1907.2	1926.7	1923.9	1929.4	1943.3
30°	1762.7	1776.6	1787.7	1787.7	1804.3	1804.3	1812.6	1821.0	1821.0	1826.5	1837.7
32.5°	1648.6	1665.3	1665.3	1673.7	1684.8	1673.7	1684.8	1695.9	1690.3	1698.7	1707.1
35°	1517.9	1526.3	1529.1	1529.1	1537.5	1534.7	1531.8	1540.2	1534.7	1548.6	1556.9
37.5°	1359.5	1370.6	1365.1	1370.6	1367.8	1359.5	1359.5	1373.4	1362.3	1365.1	1373.4
40°	1206.6	1206.6	1203.9	1190.0	1192.7	1184.3	1181.6	1184.3	1173.2	1170.4	1181.6
42.5°	1048.1	1045.4	1037.0	1017.6	1020.3	1006.4	995.3	995.3	989.8	986.9	989.8
45°	906.3	898.0	884.1	861.9	856.2	845.2	822.9	817.4	809.0	809.0	811.8
47.5°	775.6	764.6	742.3	717.3	703.4	689.5	667.2	658.9	645.0	639.4	645.0
50°	667.2	647.8	620.0	583.8	569.9	553.3	531.0	517.1	503.2	497.6	494.8
52.5°	567.2	539.4	511.6	467.1	455.9	439.3	408.7	394.8	380.9	369.8	369.8
55°	480.9	455.9	417.0	375.3	358.6	342.0	311.3	291.9	278.0	272.5	266.9
57.5°	403.1	375.3	339.2	294.7	278.0	261.4	230.7	211.3	197.4	189.0	183.5
60°	339.2	308.6	272.5	233.6	214.1	197.4	166.9	147.3	133.4	125.1	119.5
62.5°	278.0	253.0	216.8	180.8	164.0	147.3	122.3	102.9	89.0	83.4	75.1
65°	233.6	208.5	175.1	144.6	130.7	114.0	91.8	75.1	64.0	55.6	50.1
67.5°	189.0	169.6	141.8	114.0	100.1	89.0	69.5	55.6	44.4	38.9	36.2
70°	150.1	130.7	108.4	86.1	77.9	66.7	52.8	38.9	33.4	27.8	25.0
72.5°	111.2	97.3	80.6	64.0	55.6	50.1	36.2	30.6	22.3	19.4	16.7
75°	80.6	69.5	58.3	44.4	38.9	36.2	27.8	19.4	16.7	13.9	11.1
77.5°	55.6	50.1	38.9	30.6	27.8	25.0	19.4	13.9	11.1	8.4	8.4
80°	36.2	30.6	25.0	19.4	19.4	16.7	11.1	8.4	8.4	5.5	5.5
82.5°	22.3	19.4	16.7	13.9	11.1	11.1	8.4	5.5	5.5	2.8	2.8
85°	13.9	11.1	8.4	8.4	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°	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0
2.5°	2299.2	2299.2	2304.8	2296.4	2302.0	2302.0	2307.6	2296.4	2302.0	2304.8	2310.3
5°	2288.1	2290.8	2296.4	2293.7	2296.4	2296.4	2302.0	2288.1	2299.2	2299.2	2307.6
7.5°	2276.9	2276.9	2282.5	2279.8	2285.3	2288.1	2293.7	2282.5	2293.7	2293.7	2302.0
10°	2263.0	2263.0	2271.4	2268.6	2276.9	2279.8	2288.1	2276.9	2288.1	2290.8	2299.2
12.5°	2243.6	2246.4	2254.7	2254.7	2263.0	2268.6	2276.9	2271.4	2285.3	2288.1	2299.2
15°	2221.3	2227.0	2238.0	2235.2	2243.6	2252.0	2263.0	2254.7	2274.2	2279.8	2290.8
17.5°	2193.5	2199.2	2207.4	2207.4	2215.8	2221.3	2235.2	2229.7	2246.4	2249.1	2263.0
20°	2151.9	2160.2	2171.3	2168.5	2176.9	2182.4	2193.5	2188.0	2204.7	2210.2	2224.1
22.5°	2101.8	2107.4	2115.7	2115.7	2124.1	2129.6	2140.7	2132.4	2149.1	2151.9	2163.0
25°	2035.1	2040.7	2046.2	2049.0	2057.3	2060.1	2065.6	2060.1	2074.0	2076.8	2090.6
27.5°	1948.9	1951.7	1960.1	1960.1	1965.6	1968.3	1976.7	1965.6	1985.0	1985.0	1993.4
30°	1846.0	1843.3	1854.4	1848.8	1854.4	1854.4	1862.7	1857.2	1871.1	1865.5	1873.8
32.5°	1709.8	1715.4	1715.4	1709.8	1721.0	1718.1	1718.1	1712.6	1721.0	1723.7	1729.2
35°	1551.4	1559.6	1559.6	1562.5	1565.3	1556.9	1559.6	1543.0	1556.9	1559.6	1562.5
37.5°	1379.0	1370.6	1376.2	1367.8	1381.7	1365.1	1365.1	1354.0	1365.1	1365.1	1367.8
40°	1181.6	1178.8	1184.3	1178.8	1176.1	1173.2	1167.7	1159.3	1170.4	1164.9	1173.2
42.5°	995.3	992.5	992.5	986.9	984.2	984.2	978.7	973.0	970.3	970.3	984.2
45°	803.4	809.0	803.4	800.7	806.3	800.7	803.4	792.4	797.9	792.4	797.9
47.5°	642.2	645.0	639.4	633.9	642.2	633.9	633.9	625.5	636.7	636.7	631.0
50°	497.6	494.8	489.3	494.8	492.1	492.1	492.1	483.7	489.3	480.9	486.6
52.5°	367.0	364.2	364.2	361.4	364.2	361.4	361.4	358.6	358.6	355.9	358.6
55°	266.9	264.1	258.5	258.5	258.5	261.4	258.5	255.8	255.8	253.0	255.8
57.5°	180.8	175.1	175.1	175.1	175.1	172.4	172.4	169.6	172.4	169.6	172.4
60°	116.8	116.8	111.2	111.2	111.2	111.2	111.2	108.4	111.2	111.2	111.2
62.5°	72.2	72.2	69.5	66.7	69.5	66.7	66.7	66.7	69.5	66.7	69.5
65°	47.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
67.5°	33.4	30.6	30.6	30.6	30.6	30.6	30.6	27.8	30.6	30.6	30.6
70°	22.3	22.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
72.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
75°	11.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	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: P684275

CATALOG NUMBER: LX6C40D010 EX6C409040 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0	2302.0
2.5°	2302.0	2304.8	2299.2	2302.0	2296.4	2302.0	2304.8	2310.3
5°	2296.4	2299.2	2293.7	2299.2	2293.7	2299.2	2302.0	2307.6
7.5°	2290.8	2296.4	2290.8	2296.4	2290.8	2296.4	2299.2	2304.8
10°	2290.8	2299.2	2293.7	2302.0	2293.7	2299.2	2304.8	2307.6
12.5°	2290.8	2299.2	2296.4	2302.0	2299.2	2304.8	2310.3	2315.8
15°	2285.3	2293.7	2288.1	2296.4	2293.7	2296.4	2307.6	2307.6
17.5°	2254.7	2263.0	2263.0	2268.6	2268.6	2276.9	2282.5	2288.1
20°	2215.8	2224.1	2221.3	2229.7	2229.7	2238.0	2243.6	2249.1
22.5°	2157.4	2168.5	2165.7	2174.1	2171.3	2176.9	2188.0	2185.3
25°	2082.4	2096.3	2093.5	2099.0	2096.3	2096.3	2101.8	2104.5
27.5°	1990.6	1998.9	1996.1	2001.8	1996.1	2001.8	2007.3	2010.0
30°	1871.1	1876.6	1873.8	1876.6	1873.8	1879.3	1882.2	1887.7
32.5°	1726.5	1734.9	1726.5	1732.0	1729.2	1729.2	1740.4	1734.9
35°	1554.1	1556.9	1559.6	1559.6	1554.1	1556.9	1562.5	1562.5
37.5°	1362.3	1376.2	1359.5	1367.8	1365.1	1365.1	1365.1	1373.4
40°	1162.2	1164.9	1159.3	1159.3	1159.3	1156.5	1167.7	1164.9
42.5°	973.0	975.8	973.0	964.8	967.5	967.5	975.8	964.8
45°	789.5	795.1	792.4	792.4	786.8	786.8	789.5	784.0
47.5°	625.5	631.0	622.8	625.5	620.0	625.5	622.8	628.3
50°	475.4	480.9	478.2	480.9	480.9	475.4	483.7	472.7
52.5°	355.9	358.6	355.9	353.1	350.3	350.3	355.9	353.1
55°	253.0	250.2	250.2	250.2	253.0	253.0	250.2	247.5
57.5°	169.6	169.6	166.9	166.9	169.6	164.0	166.9	164.0
60°	108.4	108.4	108.4	108.4	105.7	108.4	108.4	108.4
62.5°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
65°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
67.5°	27.8	30.6	30.6	30.6	27.8	27.8	27.8	27.8
70°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
72.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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)