

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: P563946

Luminaire Tested: **LX6C40D010 EX6C409030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563946
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 EX6C409030 6LCSWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

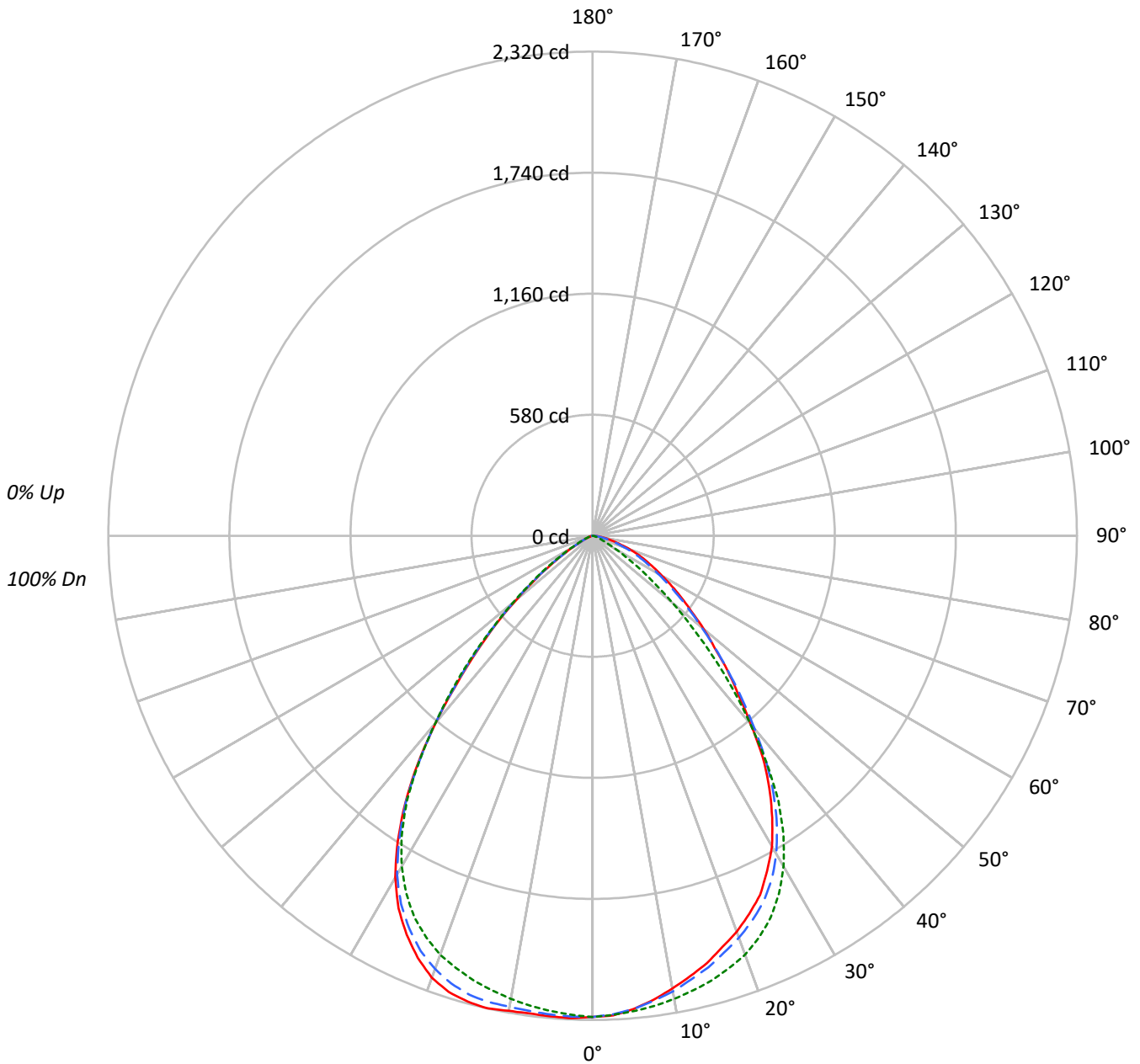
Lumens per Lamp: N/A
Luminaire Lumens: 3868.4 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126410	126410	126410
5°	125203	125814	127195
10°	122621	125410	128666
15°	120273	125171	131181
20°	117779	124605	131431
25°	114878	122118	127507
30°	108770	115809	119696
35°	98778	103804	104741
40°	84301	83893	83499
45°	70806	62820	60882
50°	59137	42506	40374
55°	49776	26083	23693
60°	42135	13738	11907
65°	36489	7225	5785
70°	30342	4472	3109
75°	22431	2944	1758
80°	17584	1768	884
85°	14026	1761	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	5.6
10°-20°	622.2	16.1
20°-30°	918.8	23.8
30°-40°	946.9	24.5
40°-50°	654.0	16.9
50°-60°	322.4	8.3
60°-70°	130.6	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°	1758.3	45.5
0°-40°	2705.2	69.9
0°-60°	3681.6	95.2
0°-90°	3868.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2306	2306	2306	2306	2306	
5°	2275	2275	2286	2303	2311	215
15°	2119	2142	2206	2278	2311	597
25°	1899	1935	2019	2077	2108	868
35°	1476	1512	1551	1560	1565	915
45°	913	919	810	799	785	706
55°	521	501	273	256	248	471
65°	281	253	56	45	45	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°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
2.5°	2300.2	2292.0	2297.4	2286.3	2300.2	2286.3	2289.1	2292.0	2289.1	2292.0	2294.6
5°	2275.2	2266.8	2275.2	2261.2	2275.2	2266.8	2266.8	2269.6	2269.6	2272.3	2275.2
7.5°	2241.8	2233.4	2241.8	2227.9	2244.5	2236.2	2236.2	2241.8	2239.0	2241.8	2247.3
10°	2202.8	2191.6	2200.0	2191.6	2208.3	2197.2	2202.8	2202.8	2202.8	2211.1	2216.8
12.5°	2161.0	2149.9	2161.0	2147.1	2163.8	2155.4	2158.2	2166.5	2169.3	2175.0	2177.7
15°	2119.2	2105.3	2110.9	2102.5	2119.2	2110.9	2113.6	2124.8	2124.8	2133.2	2141.5
17.5°	2066.3	2055.2	2066.3	2055.2	2069.1	2063.5	2069.1	2077.4	2077.4	2085.9	2094.1
20°	2018.9	2007.9	2016.2	2007.9	2024.5	2016.2	2018.9	2030.1	2032.9	2041.2	2049.6
22.5°	1960.4	1952.1	1957.7	1949.4	1966.0	1960.4	1963.3	1974.4	1977.2	1982.8	1996.8
25°	1899.2	1882.4	1890.9	1885.3	1902.1	1893.7	1899.2	1910.3	1916.0	1924.2	1935.4
27.5°	1810.1	1801.8	1807.3	1807.3	1821.2	1813.0	1815.7	1826.9	1835.1	1843.5	1857.4
30°	1718.3	1704.3	1709.9	1712.6	1723.8	1718.3	1723.8	1734.9	1737.8	1748.9	1760.0
32.5°	1601.3	1595.7	1606.9	1601.3	1606.9	1606.9	1609.5	1618.0	1623.5	1629.1	1643.1
35°	1476.0	1464.9	1476.0	1470.4	1484.3	1476.0	1484.3	1492.7	1492.7	1503.8	1512.2
37.5°	1339.4	1325.5	1331.1	1331.1	1336.7	1334.0	1334.0	1347.9	1350.6	1359.0	1367.3
40°	1178.0	1172.3	1183.5	1180.8	1183.5	1183.5	1186.3	1194.7	1200.2	1203.0	1205.9
42.5°	1033.2	1035.9	1038.8	1038.8	1038.8	1038.8	1038.8	1049.9	1047.1	1055.4	1058.2
45°	913.3	902.3	907.9	905.1	913.3	905.1	913.3	921.8	916.2	924.5	918.9
47.5°	790.9	790.9	790.9	788.1	793.7	790.9	796.4	799.2	799.2	799.2	796.4
50°	693.4	685.1	687.8	687.8	690.7	687.8	693.4	696.2	696.2	690.7	679.5
52.5°	598.7	596.0	596.0	601.5	601.5	598.7	598.7	598.7	598.7	590.4	584.8
55°	520.8	515.2	518.0	518.0	518.0	518.0	520.8	518.0	518.0	509.6	501.3
57.5°	451.1	445.6	445.6	445.6	448.3	445.6	445.6	445.6	442.8	434.3	423.3
60°	384.3	381.5	384.3	384.3	387.0	384.3	384.3	384.3	378.8	370.4	359.2
62.5°	328.7	328.7	328.7	331.3	331.3	328.7	328.7	325.8	323.1	311.9	300.8
65°	281.3	278.4	281.3	281.3	284.0	284.0	281.3	278.4	275.8	264.6	253.4
67.5°	234.0	231.1	234.0	234.0	236.7	234.0	234.0	234.0	225.6	220.0	208.8
70°	189.3	186.7	186.7	186.7	189.3	183.8	186.7	186.7	181.1	172.7	161.4
72.5°	144.8	144.8	144.8	144.8	144.8	144.8	142.0	142.0	136.4	128.1	122.6
75°	105.9	105.9	108.6	108.6	105.9	105.9	105.9	103.0	100.2	94.7	89.1
77.5°	78.0	78.0	78.0	78.0	75.2	75.2	75.2	72.3	69.7	66.8	61.2
80°	55.7	55.7	55.7	52.9	55.7	52.9	52.9	52.9	47.3	44.6	41.8
82.5°	39.0	36.2	36.2	36.2	36.2	36.2	36.2	33.4	33.4	30.7	27.9
85°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	19.4	16.8	16.8
87.5°	11.1	13.9	13.9	13.9	13.9	13.9	13.9	11.1	11.1	11.1	8.3
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°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
2.5°	2294.6	2294.6	2300.2	2292.0	2305.9	2297.4	2294.6	2308.5	2300.2	2297.4	2303.0
5°	2275.2	2278.0	2280.8	2275.2	2289.1	2280.8	2280.8	2294.6	2289.1	2286.3	2294.6
7.5°	2250.1	2252.9	2258.4	2255.7	2266.8	2261.2	2264.1	2278.0	2272.3	2272.3	2280.8
10°	2219.4	2225.0	2230.6	2230.6	2244.5	2239.0	2239.0	2255.7	2250.1	2252.9	2264.1
12.5°	2183.2	2191.6	2200.0	2202.8	2216.8	2208.3	2211.1	2230.6	2227.9	2230.6	2241.8
15°	2144.3	2155.4	2163.8	2163.8	2180.5	2172.1	2180.5	2200.0	2194.4	2205.5	2219.4
17.5°	2099.8	2110.9	2122.0	2124.8	2141.5	2135.9	2147.1	2166.5	2166.5	2172.1	2188.9
20°	2058.0	2071.9	2077.4	2085.9	2102.5	2099.8	2105.3	2127.6	2127.6	2135.9	2152.6
22.5°	2002.3	2016.2	2027.3	2035.7	2049.6	2049.6	2058.0	2077.4	2077.4	2083.0	2099.8
25°	1941.0	1957.7	1966.0	1974.4	1988.3	1985.5	1993.9	2010.6	2013.3	2018.9	2035.7
27.5°	1863.0	1876.9	1888.1	1893.7	1913.1	1902.1	1910.3	1929.9	1927.1	1932.6	1946.5
30°	1765.6	1779.5	1790.6	1790.6	1807.3	1807.3	1815.7	1824.0	1824.0	1829.5	1840.8
32.5°	1651.3	1668.1	1668.1	1676.4	1687.5	1676.4	1687.5	1698.7	1693.1	1701.5	1709.9
35°	1520.4	1528.9	1531.7	1531.7	1540.0	1537.2	1534.3	1542.8	1537.2	1551.1	1559.5
37.5°	1361.8	1372.9	1367.3	1372.9	1370.1	1361.8	1361.8	1375.8	1364.5	1367.3	1375.8
40°	1208.5	1208.5	1205.9	1192.0	1194.7	1186.3	1183.5	1186.3	1175.2	1172.3	1183.5
42.5°	1049.9	1047.1	1038.8	1019.2	1022.0	1008.0	997.0	997.0	991.4	988.6	991.4
45°	907.9	899.4	885.5	863.3	857.7	846.6	824.2	818.7	810.3	810.3	813.1
47.5°	776.9	765.8	743.5	718.4	704.5	690.7	668.3	660.0	646.0	640.4	646.0
50°	668.3	648.9	621.0	584.8	570.9	554.2	531.9	518.0	504.0	498.4	495.7
52.5°	568.1	540.2	512.4	467.9	456.7	440.0	409.3	395.4	381.5	370.4	370.4
55°	481.7	456.7	417.8	376.0	359.2	342.6	311.9	292.3	278.4	272.9	267.3
57.5°	403.8	376.0	339.7	295.2	278.4	261.8	231.1	211.7	197.7	189.3	183.8
60°	339.7	309.1	272.9	234.0	214.4	197.7	167.1	147.6	133.7	125.3	119.7
62.5°	278.4	253.4	217.2	181.1	164.3	147.6	122.6	103.0	89.1	83.6	75.2
65°	234.0	208.8	175.4	144.8	130.9	114.1	92.0	75.2	64.1	55.7	50.1
67.5°	189.3	169.9	142.0	114.1	100.2	89.1	69.7	55.7	44.6	39.0	36.2
70°	150.3	130.9	108.6	86.3	78.0	66.8	52.9	39.0	33.4	27.9	25.0
72.5°	111.4	97.4	80.8	64.1	55.7	50.1	36.2	30.7	22.3	19.4	16.8
75°	80.8	69.7	58.4	44.6	39.0	36.2	27.9	19.4	16.8	13.9	11.1
77.5°	55.7	50.1	39.0	30.7	27.9	25.0	19.4	13.9	11.1	8.3	8.3
80°	36.2	30.7	25.0	19.4	19.4	16.8	11.1	8.3	8.3	5.6	5.6
82.5°	22.3	19.4	16.8	13.9	11.1	11.1	8.3	5.6	5.6	2.8	2.8
85°	13.9	11.1	8.3	8.3	5.6	5.6	5.6	2.8	2.8	2.8	2.8
87.5°	5.6	5.6	5.6	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°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
2.5°	2303.0	2303.0	2308.5	2300.2	2305.9	2305.9	2311.4	2300.2	2305.9	2308.5	2314.1
5°	2292.0	2294.6	2300.2	2297.4	2300.2	2300.2	2305.9	2292.0	2303.0	2303.0	2311.4
7.5°	2280.8	2280.8	2286.3	2283.5	2289.1	2292.0	2297.4	2286.3	2297.4	2297.4	2305.9
10°	2266.8	2266.8	2275.2	2272.3	2280.8	2283.5	2292.0	2280.8	2292.0	2294.6	2303.0
12.5°	2247.3	2250.1	2258.4	2258.4	2266.8	2272.3	2280.8	2275.2	2289.1	2292.0	2303.0
15°	2225.0	2230.6	2241.8	2239.0	2247.3	2255.7	2266.8	2258.4	2278.0	2283.5	2294.6
17.5°	2197.2	2202.8	2211.1	2211.1	2219.4	2225.0	2239.0	2233.4	2250.1	2252.9	2266.8
20°	2155.4	2163.8	2175.0	2172.1	2180.5	2186.1	2197.2	2191.6	2208.3	2213.9	2227.9
22.5°	2105.3	2110.9	2119.2	2119.2	2127.6	2133.2	2144.3	2135.9	2152.6	2155.4	2166.5
25°	2038.5	2044.1	2049.6	2052.4	2060.7	2063.5	2069.1	2063.5	2077.4	2080.3	2094.1
27.5°	1952.1	1955.0	1963.3	1963.3	1968.9	1971.5	1980.0	1968.9	1988.3	1988.3	1996.8
30°	1849.1	1846.3	1857.4	1851.9	1857.4	1857.4	1865.8	1860.3	1874.2	1868.6	1876.9
32.5°	1712.6	1718.3	1718.3	1712.6	1723.8	1721.0	1721.0	1715.4	1723.8	1726.5	1732.1
35°	1554.0	1562.2	1562.2	1565.1	1567.9	1559.5	1562.2	1545.5	1559.5	1562.2	1565.1
37.5°	1381.3	1372.9	1378.4	1370.1	1384.0	1367.3	1367.3	1356.2	1367.3	1367.3	1370.1
40°	1183.5	1180.8	1186.3	1180.8	1178.0	1175.2	1169.7	1161.2	1172.3	1166.8	1175.2
42.5°	997.0	994.1	994.1	988.6	985.9	985.9	980.3	974.7	971.9	971.9	985.9
45°	804.8	810.3	804.8	802.1	807.7	802.1	804.8	793.7	799.2	793.7	799.2
47.5°	643.3	646.0	640.4	634.9	643.3	634.9	634.9	626.6	637.8	637.8	632.1
50°	498.4	495.7	490.1	495.7	492.9	492.9	492.9	484.6	490.1	481.7	487.3
52.5°	367.6	364.9	364.9	362.0	364.9	362.0	362.0	359.2	359.2	356.4	359.2
55°	267.3	264.6	259.0	259.0	259.0	261.8	259.0	256.2	256.2	253.4	256.2
57.5°	181.1	175.4	175.4	175.4	175.4	172.7	172.7	169.9	172.7	169.9	172.7
60°	117.0	117.0	111.4	111.4	111.4	111.4	111.4	108.6	111.4	111.4	111.4
62.5°	72.3	72.3	69.7	66.8	69.7	66.8	66.8	66.8	69.7	66.8	69.7
65°	47.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
67.5°	33.4	30.7	30.7	30.7	30.7	30.7	30.7	27.9	30.7	30.7	30.7
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	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.6	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: P563946

CATALOG NUMBER: LX6C40D010 EX6C409030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
2.5°	2305.9	2308.5	2303.0	2305.9	2300.2	2305.9	2308.5	2314.1
5°	2300.2	2303.0	2297.4	2303.0	2297.4	2303.0	2305.9	2311.4
7.5°	2294.6	2300.2	2294.6	2300.2	2294.6	2300.2	2303.0	2308.5
10°	2294.6	2303.0	2297.4	2305.9	2297.4	2303.0	2308.5	2311.4
12.5°	2294.6	2303.0	2300.2	2305.9	2303.0	2308.5	2314.1	2319.7
15°	2289.1	2297.4	2292.0	2300.2	2297.4	2300.2	2311.4	2311.4
17.5°	2258.4	2266.8	2266.8	2272.3	2272.3	2280.8	2286.3	2292.0
20°	2219.4	2227.9	2225.0	2233.4	2233.4	2241.8	2247.3	2252.9
22.5°	2161.0	2172.1	2169.3	2177.7	2175.0	2180.5	2191.6	2188.9
25°	2085.9	2099.8	2097.0	2102.5	2099.8	2099.8	2105.3	2108.0
27.5°	1993.9	2002.3	1999.4	2005.1	1999.4	2005.1	2010.6	2013.3
30°	1874.2	1879.8	1876.9	1879.8	1876.9	1882.4	1885.3	1890.9
32.5°	1729.3	1737.8	1729.3	1734.9	1732.1	1732.1	1743.3	1737.8
35°	1556.7	1559.5	1562.2	1562.2	1556.7	1559.5	1565.1	1565.1
37.5°	1364.5	1378.4	1361.8	1370.1	1367.3	1367.3	1367.3	1375.8
40°	1164.1	1166.8	1161.2	1161.2	1161.2	1158.4	1169.7	1166.8
42.5°	974.7	977.4	974.7	966.3	969.1	969.1	977.4	966.3
45°	790.9	796.4	793.7	793.7	788.1	788.1	790.9	785.3
47.5°	626.6	632.1	623.8	626.6	621.0	626.6	623.8	629.3
50°	476.2	481.7	479.0	481.7	481.7	476.2	484.6	473.4
52.5°	356.4	359.2	356.4	353.7	350.9	350.9	356.4	353.7
55°	253.4	250.6	250.6	250.6	253.4	253.4	250.6	247.9
57.5°	169.9	169.9	167.1	167.1	169.9	164.3	167.1	164.3
60°	108.6	108.6	108.6	108.6	105.9	108.6	108.6	108.6
62.5°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
65°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
67.5°	27.9	30.7	30.7	30.7	27.9	27.9	27.9	27.9
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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)