

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: P684243

Luminaire Tested: **LX6C35D010 EX6C359050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684243
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: LX6C35D010 EX6C359050 6LCSWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

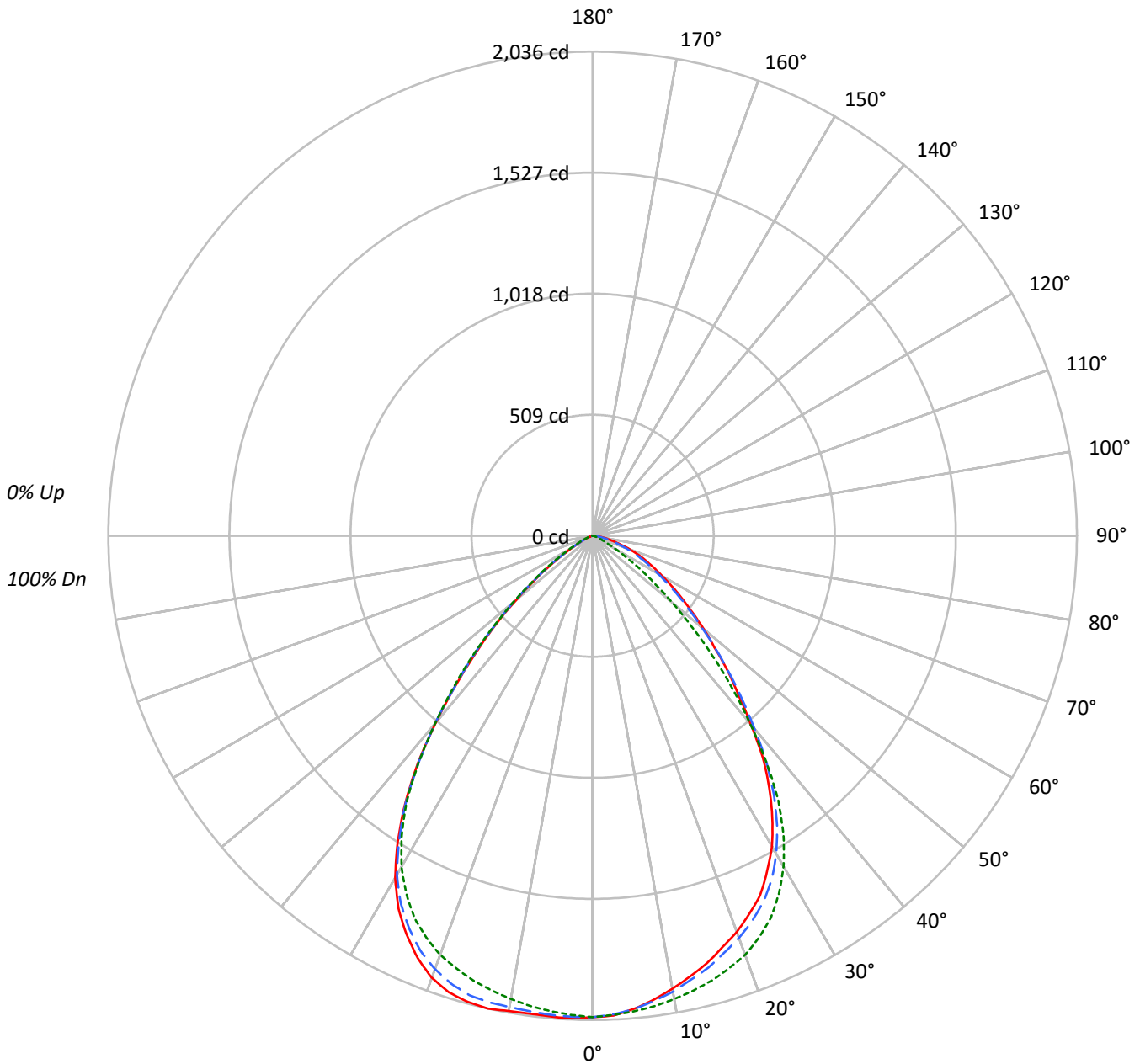
Lumens per Lamp: N/A
Luminaire Lumens: 3396.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	110972	110972	110972
5°	109911	110450	111661
10°	107647	110090	112952
15°	105585	109887	115160
20°	103399	109390	115376
25°	100851	107208	111938
30°	95483	101674	105073
35°	86712	91129	91946
40°	74003	73652	73302
45°	62161	55153	53447
50°	51922	37321	35444
55°	43697	22900	20797
60°	36993	12060	10449
65°	32027	6343	5072
70°	26639	3927	2741
75°	19677	2584	1567
80°	15438	1547	789
85°	12328	1572	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	5.6
10°-20°	546.2	16.1
20°-30°	806.6	23.8
30°-40°	831.3	24.5
40°-50°	574.1	16.9
50°-60°	283.0	8.3
60°-70°	114.7	3.4
70°-80°	40.9	1.2
80°-90°	8.5	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°	1543.6	45.5
0°-40°	2374.9	69.9
0°-60°	3232.0	95.2
0°-90°	3396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2024	2024	2024	2024	2024	
5°	1997	1997	2007	2022	2029	189
15°	1860	1880	1936	2000	2029	524
25°	1667	1699	1772	1824	1851	762
35°	1296	1328	1362	1369	1374	803
45°	802	807	711	702	689	620
55°	457	440	240	225	218	413
65°	247	222	49	39	39	245
75°	93	78	12	7	7	104
85°	20	15	2	0	0	24
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°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2019.3	2012.0	2016.9	2007.1	2019.3	2007.1	2009.6	2012.0	2009.6	2012.0	2014.4
5°	1997.3	1990.0	1997.3	1985.1	1997.3	1990.0	1990.0	1992.5	1992.5	1994.8	1997.3
7.5°	1968.0	1960.6	1968.0	1955.8	1970.4	1963.1	1963.1	1968.0	1965.5	1968.0	1972.9
10°	1933.8	1924.0	1931.3	1924.0	1938.7	1928.8	1933.8	1933.8	1933.8	1941.1	1946.0
12.5°	1897.1	1887.3	1897.1	1884.9	1899.5	1892.2	1894.6	1902.0	1904.4	1909.3	1911.7
15°	1860.4	1848.2	1853.1	1845.7	1860.4	1853.1	1855.6	1865.3	1865.3	1872.7	1880.0
17.5°	1814.0	1804.2	1814.0	1804.2	1816.4	1811.5	1816.4	1823.8	1823.8	1831.1	1838.4
20°	1772.4	1762.6	1770.0	1762.6	1777.3	1770.0	1772.4	1782.2	1784.6	1791.9	1799.3
22.5°	1721.1	1713.7	1718.6	1711.3	1725.9	1721.1	1723.6	1733.3	1735.8	1740.7	1752.9
25°	1667.3	1652.6	1659.9	1655.1	1669.8	1662.4	1667.3	1677.0	1682.0	1689.3	1699.1
27.5°	1589.1	1581.7	1586.6	1586.6	1598.8	1591.5	1593.9	1603.8	1611.0	1618.4	1630.6
30°	1508.4	1496.2	1501.1	1503.5	1513.3	1508.4	1513.3	1523.0	1525.5	1535.3	1545.0
32.5°	1405.7	1400.8	1410.6	1405.7	1410.6	1410.6	1413.0	1420.4	1425.2	1430.2	1442.4
35°	1295.7	1286.0	1295.7	1290.8	1303.1	1295.7	1303.1	1310.4	1310.4	1320.2	1327.5
37.5°	1175.9	1163.7	1168.6	1168.6	1173.4	1171.0	1171.0	1183.3	1185.7	1193.0	1200.4
40°	1034.1	1029.2	1039.0	1036.5	1039.0	1039.0	1041.4	1048.8	1053.6	1056.1	1058.6
42.5°	907.0	909.4	911.9	911.9	911.9	911.9	911.9	921.6	919.2	926.6	929.0
45°	801.8	792.1	797.0	794.6	801.8	794.6	801.8	809.2	804.3	811.7	806.7
47.5°	694.3	694.3	694.3	691.9	696.8	694.3	699.1	701.6	701.6	701.6	699.1
50°	608.8	601.4	603.8	603.8	606.3	603.8	608.8	611.2	611.2	606.3	596.6
52.5°	525.6	523.2	523.2	528.1	528.1	525.6	525.6	525.6	525.6	518.3	513.4
55°	457.2	452.3	454.7	454.7	454.7	454.7	457.2	454.7	454.7	447.3	440.1
57.5°	396.0	391.2	391.2	391.2	393.6	391.2	391.2	391.2	388.7	381.3	371.6
60°	337.4	334.9	337.4	337.4	339.8	337.4	337.4	337.4	332.5	325.2	315.3
62.5°	288.5	288.5	288.5	290.9	290.9	288.5	288.5	286.0	283.6	273.8	264.0
65°	246.9	244.4	246.9	246.9	249.3	249.3	246.9	244.4	242.1	232.2	222.5
67.5°	205.4	202.9	205.4	205.4	207.8	205.4	205.4	205.4	198.0	193.2	183.3
70°	166.2	163.8	163.8	163.8	166.2	161.3	163.8	163.8	159.0	151.6	141.8
72.5°	127.1	127.1	127.1	127.1	127.1	127.1	124.7	124.7	119.8	112.4	107.6
75°	92.9	92.9	95.3	95.3	92.9	92.9	92.9	90.5	88.0	83.1	78.2
77.5°	68.5	68.5	68.5	68.5	66.0	66.0	66.0	63.5	61.1	58.7	53.8
80°	48.9	48.9	48.9	46.4	48.9	46.4	46.4	46.4	41.6	39.1	36.7
82.5°	34.2	31.8	31.8	31.8	31.8	31.8	31.8	29.3	29.3	26.9	24.5
85°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	17.1	14.7	14.7
87.5°	9.7	12.2	12.2	12.2	12.2	12.2	12.2	9.7	9.7	9.7	7.4
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°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2014.4	2014.4	2019.3	2012.0	2024.3	2016.9	2014.4	2026.7	2019.3	2016.9	2021.8
5°	1997.3	1999.8	2002.2	1997.3	2009.6	2002.2	2002.2	2014.4	2009.6	2007.1	2014.4
7.5°	1975.4	1977.7	1982.6	1980.2	1990.0	1985.1	1987.6	1999.8	1994.8	1994.8	2002.2
10°	1948.4	1953.3	1958.3	1958.3	1970.4	1965.5	1965.5	1980.2	1975.4	1977.7	1987.6
12.5°	1916.6	1924.0	1931.3	1933.8	1946.0	1938.7	1941.1	1958.3	1955.8	1958.3	1968.0
15°	1882.4	1892.2	1899.5	1899.5	1914.2	1906.9	1914.2	1931.3	1926.4	1936.2	1948.4
17.5°	1843.3	1853.1	1862.8	1865.3	1880.0	1875.1	1884.9	1902.0	1902.0	1906.9	1921.6
20°	1806.7	1818.9	1823.8	1831.1	1845.7	1843.3	1848.2	1867.8	1867.8	1875.1	1889.8
22.5°	1757.7	1770.0	1779.7	1787.1	1799.3	1799.3	1806.7	1823.8	1823.8	1828.6	1843.3
25°	1704.0	1718.6	1725.9	1733.3	1745.5	1743.0	1750.4	1765.1	1767.5	1772.4	1787.1
27.5°	1635.5	1647.7	1657.5	1662.4	1679.5	1669.8	1677.0	1694.2	1691.7	1696.6	1708.8
30°	1550.0	1562.2	1572.0	1572.0	1586.6	1586.6	1593.9	1601.3	1601.3	1606.2	1616.0
32.5°	1449.7	1464.4	1464.4	1471.7	1481.5	1471.7	1481.5	1491.2	1486.4	1493.7	1501.1
35°	1334.8	1342.1	1344.6	1344.6	1352.0	1349.5	1347.0	1354.3	1349.5	1361.7	1369.1
37.5°	1195.5	1205.2	1200.4	1205.2	1202.8	1195.5	1195.5	1207.7	1197.9	1200.4	1207.7
40°	1061.0	1061.0	1058.6	1046.4	1048.8	1041.4	1039.0	1041.4	1031.7	1029.2	1039.0
42.5°	921.6	919.2	911.9	894.8	897.2	884.9	875.2	875.2	870.3	867.8	870.3
45°	797.0	789.6	777.4	757.9	752.9	743.2	723.6	718.7	711.4	711.4	713.9
47.5°	682.0	672.3	652.7	630.7	618.5	606.3	586.7	579.4	567.1	562.3	567.1
50°	586.7	569.6	545.2	513.4	501.1	486.5	466.9	454.7	442.5	437.6	435.1
52.5°	498.7	474.3	449.8	410.8	400.9	386.3	359.4	347.1	334.9	325.2	325.2
55°	422.9	400.9	366.7	330.0	315.3	300.7	273.8	256.7	244.4	239.6	234.7
57.5°	354.5	330.0	298.2	259.2	244.4	229.8	202.9	185.8	173.6	166.2	161.3
60°	298.2	271.4	239.6	205.4	188.3	173.6	146.7	129.5	117.3	110.0	105.1
62.5°	244.4	222.5	190.7	159.0	144.2	129.5	107.6	90.5	78.2	73.4	66.0
65°	205.4	183.3	154.0	127.1	114.9	100.2	80.7	66.0	56.3	48.9	44.0
67.5°	166.2	149.1	124.7	100.2	88.0	78.2	61.1	48.9	39.1	34.2	31.8
70°	132.0	114.9	95.3	75.8	68.5	58.7	46.4	34.2	29.3	24.5	22.0
72.5°	97.8	85.6	70.9	56.3	48.9	44.0	31.8	26.9	19.6	17.1	14.7
75°	70.9	61.1	51.3	39.1	34.2	31.8	24.5	17.1	14.7	12.2	9.7
77.5°	48.9	44.0	34.2	26.9	24.5	22.0	17.1	12.2	9.7	7.4	7.4
80°	31.8	26.9	22.0	17.1	17.1	14.7	9.7	7.4	7.4	4.9	4.9
82.5°	19.6	17.1	14.7	12.2	9.7	9.7	7.4	4.9	4.9	2.5	2.5
85°	12.2	9.7	7.4	7.4	4.9	4.9	4.9	2.5	2.5	2.5	2.5
87.5°	4.9	4.9	4.9	2.5	2.5	2.5	2.5	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°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2021.8	2021.8	2026.7	2019.3	2024.3	2024.3	2029.1	2019.3	2024.3	2026.7	2031.5
5°	2012.0	2014.4	2019.3	2016.9	2019.3	2019.3	2024.3	2012.0	2021.8	2021.8	2029.1
7.5°	2002.2	2002.2	2007.1	2004.7	2009.6	2012.0	2016.9	2007.1	2016.9	2016.9	2024.3
10°	1990.0	1990.0	1997.3	1994.8	2002.2	2004.7	2012.0	2002.2	2012.0	2014.4	2021.8
12.5°	1972.9	1975.4	1982.6	1982.6	1990.0	1994.8	2002.2	1997.3	2009.6	2012.0	2021.8
15°	1953.3	1958.3	1968.0	1965.5	1972.9	1980.2	1990.0	1982.6	1999.8	2004.7	2014.4
17.5°	1928.8	1933.8	1941.1	1941.1	1948.4	1953.3	1965.5	1960.6	1975.4	1977.7	1990.0
20°	1892.2	1899.5	1909.3	1906.9	1914.2	1919.1	1928.8	1924.0	1938.7	1943.5	1955.8
22.5°	1848.2	1853.1	1860.4	1860.4	1867.8	1872.7	1882.4	1875.1	1889.8	1892.2	1902.0
25°	1789.6	1794.4	1799.3	1801.8	1809.0	1811.5	1816.4	1811.5	1823.8	1826.2	1838.4
27.5°	1713.7	1716.2	1723.6	1723.6	1728.4	1730.8	1738.2	1728.4	1745.5	1745.5	1752.9
30°	1623.3	1620.9	1630.6	1625.7	1630.6	1630.6	1638.0	1633.1	1645.3	1640.4	1647.7
32.5°	1503.5	1508.4	1508.4	1503.5	1513.3	1510.8	1510.8	1505.9	1513.3	1515.7	1520.6
35°	1364.2	1371.4	1371.4	1373.9	1376.4	1369.1	1371.4	1356.8	1369.1	1371.4	1373.9
37.5°	1212.6	1205.2	1210.1	1202.8	1215.0	1200.4	1200.4	1190.6	1200.4	1200.4	1202.8
40°	1039.0	1036.5	1041.4	1036.5	1034.1	1031.7	1026.8	1019.4	1029.2	1024.3	1031.7
42.5°	875.2	872.7	872.7	867.8	865.5	865.5	860.6	855.6	853.2	853.2	865.5
45°	706.5	711.4	706.5	704.1	709.0	704.1	706.5	696.8	701.6	696.8	701.6
47.5°	564.7	567.1	562.3	557.4	564.7	557.4	557.4	550.0	559.9	559.9	554.9
50°	437.6	435.1	430.2	435.1	432.7	432.7	432.7	425.4	430.2	422.9	427.9
52.5°	322.7	320.3	320.3	317.8	320.3	317.8	317.8	315.3	315.3	312.9	315.3
55°	234.7	232.2	227.3	227.3	227.3	229.8	227.3	225.0	225.0	222.5	225.0
57.5°	159.0	154.0	154.0	154.0	154.0	151.6	151.6	149.1	151.6	149.1	151.6
60°	102.7	102.7	97.8	97.8	97.8	97.8	97.8	95.3	97.8	97.8	97.8
62.5°	63.5	63.5	61.1	58.7	61.1	58.7	58.7	58.7	61.1	58.7	61.1
65°	41.6	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
67.5°	29.3	26.9	26.9	26.9	26.9	26.9	26.9	24.5	26.9	26.9	26.9
70°	19.6	19.6	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	9.7	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	7.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	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	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P684243

CATALOG NUMBER: LX6C35D010 EX6C359050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2024.3	2026.7	2021.8	2024.3	2019.3	2024.3	2026.7	2031.5
5°	2019.3	2021.8	2016.9	2021.8	2016.9	2021.8	2024.3	2029.1
7.5°	2014.4	2019.3	2014.4	2019.3	2014.4	2019.3	2021.8	2026.7
10°	2014.4	2021.8	2016.9	2024.3	2016.9	2021.8	2026.7	2029.1
12.5°	2014.4	2021.8	2019.3	2024.3	2021.8	2026.7	2031.5	2036.4
15°	2009.6	2016.9	2012.0	2019.3	2016.9	2019.3	2029.1	2029.1
17.5°	1982.6	1990.0	1990.0	1994.8	1994.8	2002.2	2007.1	2012.0
20°	1948.4	1955.8	1953.3	1960.6	1960.6	1968.0	1972.9	1977.7
22.5°	1897.1	1906.9	1904.4	1911.7	1909.3	1914.2	1924.0	1921.6
25°	1831.1	1843.3	1840.9	1845.7	1843.3	1843.3	1848.2	1850.6
27.5°	1750.4	1757.7	1755.3	1760.2	1755.3	1760.2	1765.1	1767.5
30°	1645.3	1650.2	1647.7	1650.2	1647.7	1652.6	1655.1	1659.9
32.5°	1518.2	1525.5	1518.2	1523.0	1520.6	1520.6	1530.4	1525.5
35°	1366.6	1369.1	1371.4	1371.4	1366.6	1369.1	1373.9	1373.9
37.5°	1197.9	1210.1	1195.5	1202.8	1200.4	1200.4	1200.4	1207.7
40°	1021.9	1024.3	1019.4	1019.4	1019.4	1017.0	1026.8	1024.3
42.5°	855.6	858.1	855.6	848.4	850.7	850.7	858.1	848.4
45°	694.3	699.1	696.8	696.8	691.9	691.9	694.3	689.4
47.5°	550.0	554.9	547.6	550.0	545.2	550.0	547.6	552.5
50°	418.0	422.9	420.5	422.9	422.9	418.0	425.4	415.6
52.5°	312.9	315.3	312.9	310.5	308.1	308.1	312.9	310.5
55°	222.5	220.0	220.0	220.0	222.5	222.5	220.0	217.6
57.5°	149.1	149.1	146.7	146.7	149.1	144.2	146.7	144.2
60°	95.3	95.3	95.3	95.3	92.9	95.3	95.3	95.3
62.5°	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
65°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
67.5°	24.5	26.9	26.9	26.9	24.5	24.5	24.5	24.5
70°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	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)