

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: P684215

Luminaire Tested: **LX6C35D010 EX6C359027 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684215
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 EX6C359027 6LCSWH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

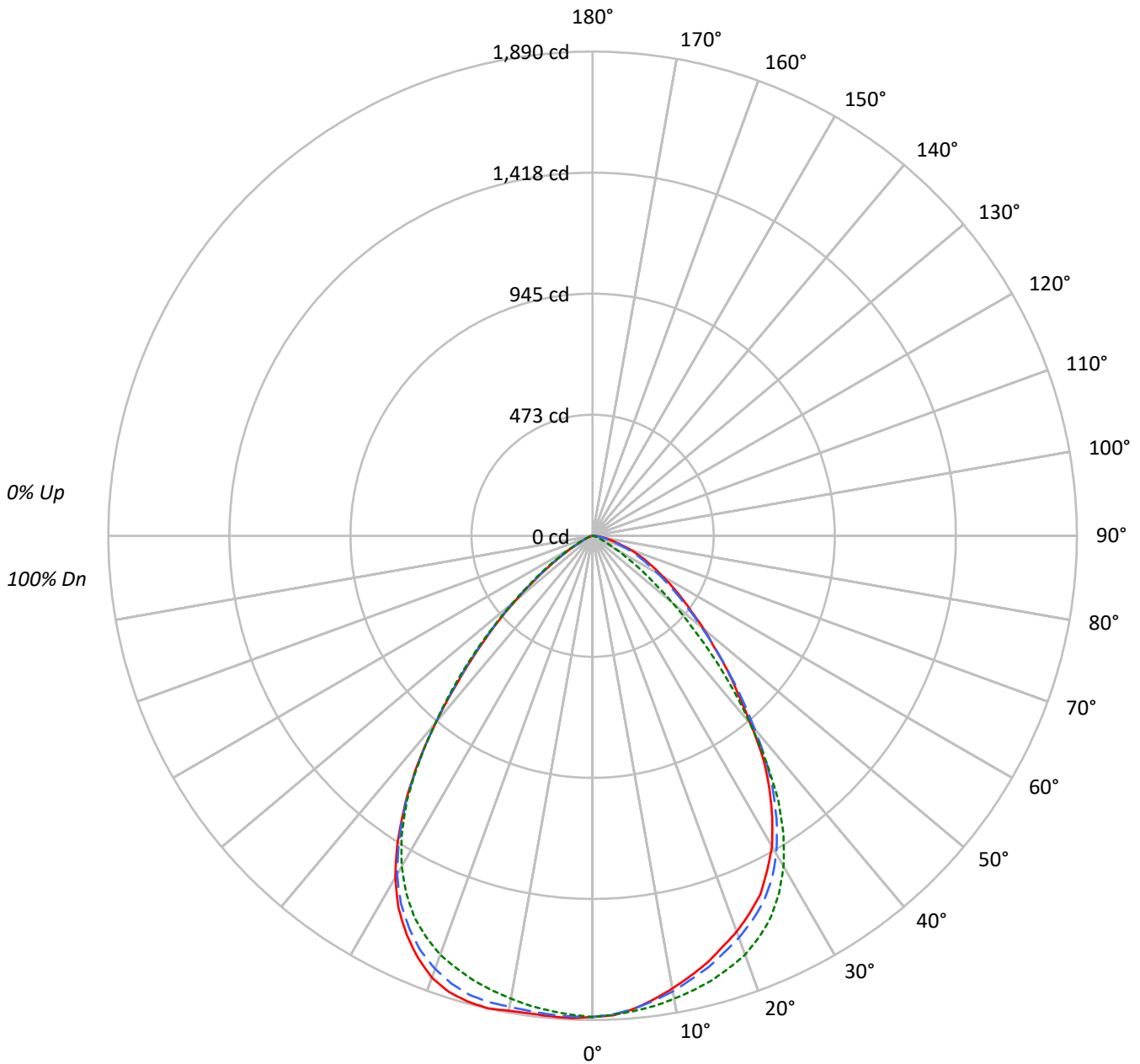
Lumens per Lamp: N/A
Luminaire Lumens: 3151.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	102963	102963	102963
5°	101981	102482	103604
10°	99881	102152	104802
15°	97969	101959	106851
20°	95938	101497	107057
25°	93574	99471	103863
30°	88596	94337	97496
35°	80455	84557	85314
40°	68664	68335	68013
45°	57680	51176	49594
50°	48178	34626	32886
55°	40543	21247	19297
60°	34328	11194	9703
65°	29718	5889	4709
70°	24716	3638	2549
75°	18258	2393	1440
80°	14333	1421	726
85°	11448	1447	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	5.6
10°-20°	506.8	16.1
20°-30°	748.4	23.8
30°-40°	771.3	24.5
40°-50°	532.7	16.9
50°-60°	262.6	8.3
60°-70°	106.4	3.4
70°-80°	37.9	1.2
80°-90°	7.8	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°	1432.2	45.5
0°-40°	2203.5	69.9
0°-60°	2998.8	95.2
0°-90°	3151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1878	1878	1878	1878	1878	
5°	1853	1853	1862	1876	1883	175
15°	1726	1744	1796	1856	1883	486
25°	1547	1576	1644	1692	1717	707
35°	1202	1232	1264	1270	1275	745
45°	744	748	660	651	640	575
55°	424	408	222	209	202	383
65°	229	206	45	36	36	228
75°	86	73	11	7	7	97
85°	18	14	2	0	0	22
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°	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2
2.5°	1873.6	1866.9	1871.4	1862.3	1873.6	1862.3	1864.6	1866.9	1864.6	1866.9	1869.1
5°	1853.2	1846.4	1853.2	1841.9	1853.2	1846.4	1846.4	1848.7	1848.7	1850.9	1853.2
7.5°	1826.0	1819.2	1826.0	1814.7	1828.2	1821.5	1821.5	1826.0	1823.7	1826.0	1830.5
10°	1794.3	1785.2	1792.0	1785.2	1798.8	1789.7	1794.3	1794.3	1794.3	1801.0	1805.6
12.5°	1760.3	1751.1	1760.3	1748.9	1762.5	1755.7	1758.0	1764.8	1767.0	1771.6	1773.8
15°	1726.2	1714.9	1719.4	1712.6	1726.2	1719.4	1721.7	1730.7	1730.7	1737.6	1744.4
17.5°	1683.1	1674.0	1683.1	1674.0	1685.4	1680.8	1685.4	1692.2	1692.2	1699.0	1705.7
20°	1644.5	1635.5	1642.3	1635.5	1649.1	1642.3	1644.5	1653.6	1655.8	1662.7	1669.5
22.5°	1596.9	1590.1	1594.6	1587.9	1601.4	1596.9	1599.2	1608.2	1610.6	1615.1	1626.4
25°	1547.0	1533.4	1540.2	1535.7	1549.3	1542.5	1547.0	1556.0	1560.7	1567.4	1576.5
27.5°	1474.4	1467.6	1472.1	1472.1	1483.5	1476.7	1478.9	1488.1	1494.8	1501.6	1513.0
30°	1399.6	1388.3	1392.8	1395.0	1404.1	1399.6	1404.1	1413.2	1415.5	1424.5	1433.6
32.5°	1304.3	1299.7	1308.8	1304.3	1308.8	1308.8	1311.1	1317.9	1322.4	1327.0	1338.4
35°	1202.2	1193.2	1202.2	1197.7	1209.0	1202.2	1209.0	1215.9	1215.9	1224.9	1231.7
37.5°	1091.1	1079.7	1084.3	1084.3	1088.8	1086.6	1086.6	1097.9	1100.1	1106.9	1113.8
40°	959.5	954.9	964.1	961.8	964.1	964.1	966.3	973.1	977.6	979.9	982.2
42.5°	841.6	843.8	846.1	846.1	846.1	846.1	846.1	855.1	852.9	859.7	862.0
45°	744.0	734.9	739.5	737.2	744.0	737.2	744.0	750.8	746.3	753.1	748.5
47.5°	644.2	644.2	644.2	642.0	646.5	644.2	648.7	651.0	651.0	651.0	648.7
50°	564.9	558.0	560.3	560.3	562.6	560.3	564.9	567.1	567.1	562.6	553.5
52.5°	487.7	485.4	485.4	490.0	490.0	487.7	487.7	487.7	487.7	480.9	476.3
55°	424.2	419.7	421.9	421.9	421.9	421.9	424.2	421.9	421.9	415.1	408.3
57.5°	367.5	363.0	363.0	363.0	365.2	363.0	363.0	363.0	360.6	353.8	344.8
60°	313.1	310.7	313.1	313.1	315.3	313.1	313.1	313.1	308.5	301.7	292.6
62.5°	267.7	267.7	267.7	269.9	269.9	267.7	267.7	265.4	263.2	254.0	245.0
65°	229.1	226.8	229.1	229.1	231.3	231.3	229.1	226.8	224.6	215.5	206.4
67.5°	190.6	188.3	190.6	190.6	192.8	190.6	190.6	190.6	183.7	179.2	170.1
70°	154.2	152.0	152.0	152.0	154.2	149.7	152.0	152.0	147.5	140.7	131.5
72.5°	118.0	118.0	118.0	118.0	118.0	118.0	115.7	115.7	111.1	104.3	99.8
75°	86.2	86.2	88.5	88.5	86.2	86.2	86.2	83.9	81.6	77.1	72.6
77.5°	63.5	63.5	63.5	63.5	61.2	61.2	61.2	58.9	56.7	54.4	49.9
80°	45.4	45.4	45.4	43.1	45.4	43.1	43.1	43.1	38.6	36.3	34.0
82.5°	31.7	29.5	29.5	29.5	29.5	29.5	29.5	27.2	27.2	25.0	22.7
85°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	15.9	13.6	13.6
87.5°	9.0	11.3	11.3	11.3	11.3	11.3	11.3	9.0	9.0	9.0	6.8
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°	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2
2.5°	1869.1	1869.1	1873.6	1866.9	1878.2	1871.4	1869.1	1880.4	1873.6	1871.4	1875.9
5°	1853.2	1855.5	1857.8	1853.2	1864.6	1857.8	1857.8	1869.1	1864.6	1862.3	1869.1
7.5°	1832.8	1835.1	1839.6	1837.4	1846.4	1841.9	1844.2	1855.5	1850.9	1850.9	1857.8
10°	1807.9	1812.4	1817.0	1817.0	1828.2	1823.7	1823.7	1837.4	1832.8	1835.1	1844.2
12.5°	1778.3	1785.2	1792.0	1794.3	1805.6	1798.8	1801.0	1817.0	1814.7	1817.0	1826.0
15°	1746.6	1755.7	1762.5	1762.5	1776.1	1769.3	1776.1	1792.0	1787.5	1796.5	1807.9
17.5°	1710.4	1719.4	1728.4	1730.7	1744.4	1739.8	1748.9	1764.8	1764.8	1769.3	1782.9
20°	1676.3	1687.7	1692.2	1699.0	1712.6	1710.4	1714.9	1733.0	1733.0	1739.8	1753.4
22.5°	1630.9	1642.3	1651.3	1658.1	1669.5	1669.5	1676.3	1692.2	1692.2	1696.7	1710.4
25°	1581.0	1594.6	1601.4	1608.2	1619.6	1617.3	1624.1	1637.8	1640.0	1644.5	1658.1
27.5°	1517.5	1528.8	1538.0	1542.5	1558.3	1549.3	1556.0	1572.0	1569.7	1574.2	1585.6
30°	1438.2	1449.5	1458.5	1458.5	1472.1	1472.1	1478.9	1485.8	1485.8	1490.3	1499.4
32.5°	1345.1	1358.7	1358.7	1365.6	1374.6	1365.6	1374.6	1383.7	1379.1	1386.0	1392.8
35°	1238.5	1245.3	1247.6	1247.6	1254.4	1252.1	1249.8	1256.6	1252.1	1263.5	1270.3
37.5°	1109.2	1118.3	1113.8	1118.3	1116.0	1109.2	1109.2	1120.6	1111.5	1113.8	1120.6
40°	984.4	984.4	982.2	970.9	973.1	966.3	964.1	966.3	957.2	954.9	964.1
42.5°	855.1	852.9	846.1	830.2	832.4	821.1	812.1	812.1	807.5	805.2	807.5
45°	739.5	732.6	721.3	703.2	698.6	689.6	671.4	666.9	660.1	660.1	662.4
47.5°	632.8	623.8	605.6	585.2	573.9	562.6	544.4	537.6	526.2	521.7	526.2
50°	544.4	528.5	505.8	476.3	465.0	451.4	433.2	421.9	410.5	406.0	403.7
52.5°	462.8	440.1	417.4	381.1	372.0	358.4	333.4	322.1	310.7	301.7	301.7
55°	392.4	372.0	340.3	306.2	292.6	279.0	254.0	238.2	226.8	222.3	217.8
57.5°	328.9	306.2	276.7	240.5	226.8	213.3	188.3	172.4	161.0	154.2	149.7
60°	276.7	251.8	222.3	190.6	174.7	161.0	136.1	120.2	108.8	102.1	97.5
62.5°	226.8	206.4	176.9	147.5	133.8	120.2	99.8	83.9	72.6	68.1	61.2
65°	190.6	170.1	142.9	118.0	106.6	93.0	74.9	61.2	52.2	45.4	40.9
67.5°	154.2	138.4	115.7	93.0	81.6	72.6	56.7	45.4	36.3	31.7	29.5
70°	122.5	106.6	88.5	70.3	63.5	54.4	43.1	31.7	27.2	22.7	20.4
72.5°	90.8	79.4	65.8	52.2	45.4	40.9	29.5	25.0	18.2	15.9	13.6
75°	65.8	56.7	47.6	36.3	31.7	29.5	22.7	15.9	13.6	11.3	9.0
77.5°	45.4	40.9	31.7	25.0	22.7	20.4	15.9	11.3	9.0	6.8	6.8
80°	29.5	25.0	20.4	15.9	15.9	13.6	9.0	6.8	6.8	4.5	4.5
82.5°	18.2	15.9	13.6	11.3	9.0	9.0	6.8	4.5	4.5	2.3	2.3
85°	11.3	9.0	6.8	6.8	4.5	4.5	4.5	2.3	2.3	2.3	2.3
87.5°	4.5	4.5	4.5	2.3	2.3	2.3	2.3	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°	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2
2.5°	1875.9	1875.9	1880.4	1873.6	1878.2	1878.2	1882.7	1873.6	1878.2	1880.4	1885.0
5°	1866.9	1869.1	1873.6	1871.4	1873.6	1873.6	1878.2	1866.9	1875.9	1875.9	1882.7
7.5°	1857.8	1857.8	1862.3	1860.1	1864.6	1866.9	1871.4	1862.3	1871.4	1871.4	1878.2
10°	1846.4	1846.4	1853.2	1850.9	1857.8	1860.1	1866.9	1857.8	1866.9	1869.1	1875.9
12.5°	1830.5	1832.8	1839.6	1839.6	1846.4	1850.9	1857.8	1853.2	1864.6	1866.9	1875.9
15°	1812.4	1817.0	1826.0	1823.7	1830.5	1837.4	1846.4	1839.6	1855.5	1860.1	1869.1
17.5°	1789.7	1794.3	1801.0	1801.0	1807.9	1812.4	1823.7	1819.2	1832.8	1835.1	1846.4
20°	1755.7	1762.5	1771.6	1769.3	1776.1	1780.6	1789.7	1785.2	1798.8	1803.3	1814.7
22.5°	1714.9	1719.4	1726.2	1726.2	1733.0	1737.6	1746.6	1739.8	1753.4	1755.7	1764.8
25°	1660.5	1665.0	1669.5	1671.8	1678.5	1680.8	1685.4	1680.8	1692.2	1694.5	1705.7
27.5°	1590.1	1592.4	1599.2	1599.2	1603.7	1605.9	1612.8	1603.7	1619.6	1619.6	1626.4
30°	1506.1	1503.9	1513.0	1508.4	1513.0	1513.0	1519.8	1515.3	1526.6	1522.1	1528.8
32.5°	1395.0	1399.6	1399.6	1395.0	1404.1	1401.8	1401.8	1397.3	1404.1	1406.3	1410.9
35°	1265.8	1272.5	1272.5	1274.8	1277.1	1270.3	1272.5	1258.9	1270.3	1272.5	1274.8
37.5°	1125.1	1118.3	1122.8	1116.0	1127.3	1113.8	1113.8	1104.7	1113.8	1113.8	1116.0
40°	964.1	961.8	966.3	961.8	959.5	957.2	952.7	945.9	954.9	950.4	957.2
42.5°	812.1	809.8	809.8	805.2	803.0	803.0	798.5	793.9	791.7	791.7	803.0
45°	655.5	660.1	655.5	653.3	657.8	653.3	655.5	646.5	651.0	646.5	651.0
47.5°	524.0	526.2	521.7	517.2	524.0	517.2	517.2	510.4	519.5	519.5	514.9
50°	406.0	403.7	399.2	403.7	401.5	401.5	401.5	394.7	399.2	392.4	397.0
52.5°	299.4	297.2	297.2	294.9	297.2	294.9	294.9	292.6	292.6	290.4	292.6
55°	217.8	215.5	210.9	210.9	210.9	213.3	210.9	208.7	208.7	206.4	208.7
57.5°	147.5	142.9	142.9	142.9	142.9	140.7	140.7	138.4	140.7	138.4	140.7
60°	95.3	95.3	90.8	90.8	90.8	90.8	90.8	88.5	90.8	90.8	90.8
62.5°	58.9	58.9	56.7	54.4	56.7	54.4	54.4	54.4	56.7	54.4	56.7
65°	38.6	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
67.5°	27.2	25.0	25.0	25.0	25.0	25.0	25.0	22.7	25.0	25.0	25.0
70°	18.2	18.2	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
72.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
75°	9.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	6.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	2.3	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	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P684215

CATALOG NUMBER: LX6C35D010 EX6C359027 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2	1878.2
2.5°	1878.2	1880.4	1875.9	1878.2	1873.6	1878.2	1880.4	1885.0
5°	1873.6	1875.9	1871.4	1875.9	1871.4	1875.9	1878.2	1882.7
7.5°	1869.1	1873.6	1869.1	1873.6	1869.1	1873.6	1875.9	1880.4
10°	1869.1	1875.9	1871.4	1878.2	1871.4	1875.9	1880.4	1882.7
12.5°	1869.1	1875.9	1873.6	1878.2	1875.9	1880.4	1885.0	1889.5
15°	1864.6	1871.4	1866.9	1873.6	1871.4	1873.6	1882.7	1882.7
17.5°	1839.6	1846.4	1846.4	1850.9	1850.9	1857.8	1862.3	1866.9
20°	1807.9	1814.7	1812.4	1819.2	1819.2	1826.0	1830.5	1835.1
22.5°	1760.3	1769.3	1767.0	1773.8	1771.6	1776.1	1785.2	1782.9
25°	1699.0	1710.4	1708.1	1712.6	1710.4	1710.4	1714.9	1717.1
27.5°	1624.1	1630.9	1628.6	1633.2	1628.6	1633.2	1637.8	1640.0
30°	1526.6	1531.1	1528.8	1531.1	1528.8	1533.4	1535.7	1540.2
32.5°	1408.6	1415.5	1408.6	1413.2	1410.9	1410.9	1420.0	1415.5
35°	1268.0	1270.3	1272.5	1272.5	1268.0	1270.3	1274.8	1274.8
37.5°	1111.5	1122.8	1109.2	1116.0	1113.8	1113.8	1113.8	1120.6
40°	948.2	950.4	945.9	945.9	945.9	943.6	952.7	950.4
42.5°	793.9	796.2	793.9	787.1	789.4	789.4	796.2	787.1
45°	644.2	648.7	646.5	646.5	642.0	642.0	644.2	639.7
47.5°	510.4	514.9	508.1	510.4	505.8	510.4	508.1	512.7
50°	387.9	392.4	390.2	392.4	392.4	387.9	394.7	385.6
52.5°	290.4	292.6	290.4	288.1	285.8	285.8	290.4	288.1
55°	206.4	204.1	204.1	204.1	206.4	206.4	204.1	201.9
57.5°	138.4	138.4	136.1	136.1	138.4	133.8	136.1	133.8
60°	88.5	88.5	88.5	88.5	86.2	88.5	88.5	88.5
62.5°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
65°	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
67.5°	22.7	25.0	25.0	25.0	22.7	22.7	22.7	22.7
70°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
72.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	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)