

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: P684248

Luminaire Tested: **LX6C40D010 EX6C409027 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C40D010 EX6C409027 6LBLWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

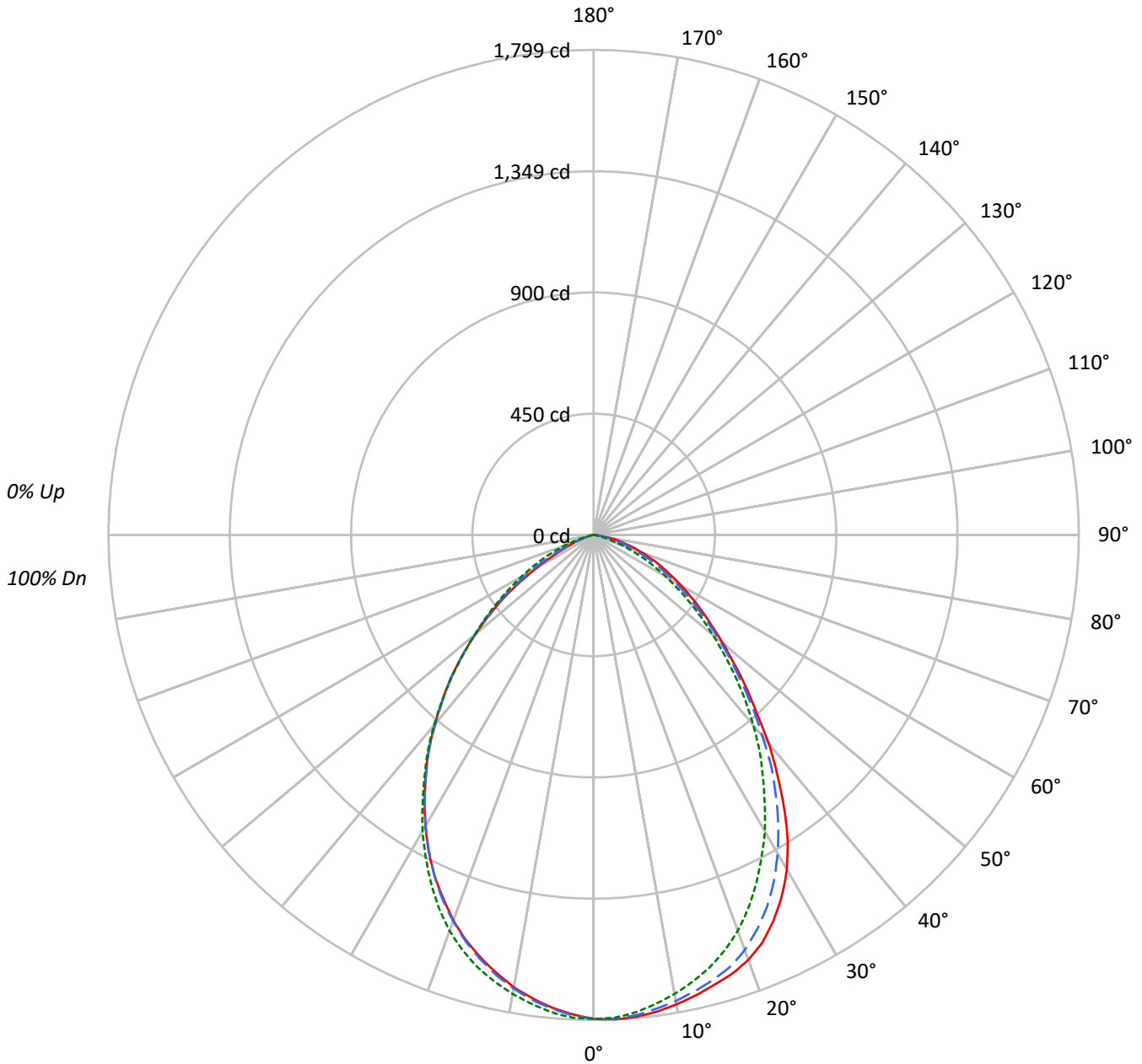
Lumens per Lamp: N/A
Luminaire Lumens: 3265.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	98402	98402	98402
5°	98745	97848	96885
10°	98440	96257	94849
15°	98071	94268	92078
20°	97851	91165	88739
25°	95473	86273	84380
30°	90710	80360	79018
35°	82329	73167	72678
40°	72235	65845	65501
45°	61929	57533	58006
50°	53312	49039	48783
55°	46593	41404	38871
60°	40951	33934	26522
65°	35840	26293	15968
70°	30566	17695	9377
75°	24655	9193	5105
80°	17142	3631	2873
85°	6856	1132	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	5.2
10°-20°	469.7	14.4
20°-30°	668.3	20.5
30°-40°	703.4	21.5
40°-50°	586.2	18.0
50°-60°	396.1	12.1
60°-70°	200.8	6.2
70°-80°	64.8	2.0
80°-90°	7.4	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°	1306.2	40.0
0°-40°	2009.6	61.6
0°-60°	2991.9	91.6
0°-90°	3265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3265.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1794	1789	1778	1765	1761	170
15°	1728	1709	1661	1628	1622	488
25°	1578	1521	1426	1397	1395	723
35°	1230	1177	1093	1082	1086	766
45°	799	778	742	745	748	618
55°	488	464	433	420	407	439
65°	276	249	203	147	123	275
75°	116	91	43	24	24	126
85°	11	6	2	2	2	19
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°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1799.2	1799.2	1799.2	1799.2	1799.2	1799.2	1798.6	1798.6	1797.4	1797.4	1796.8
5°	1794.4	1795.0	1795.0	1794.4	1794.4	1793.2	1793.2	1792.6	1790.8	1789.5	1788.9
7.5°	1784.1	1784.1	1783.5	1782.9	1782.3	1780.5	1779.9	1778.1	1776.9	1775.7	1773.3
10°	1768.4	1768.4	1767.8	1766.6	1766.0	1764.8	1764.8	1762.4	1760.0	1757.0	1755.2
12.5°	1749.7	1750.3	1749.1	1748.5	1746.7	1746.1	1744.9	1741.9	1740.1	1736.4	1733.4
15°	1728.0	1729.2	1729.2	1726.8	1725.0	1724.4	1722.6	1720.8	1716.5	1712.9	1709.3
17.5°	1706.9	1708.1	1706.9	1705.1	1703.3	1700.9	1699.6	1696.0	1690.6	1685.8	1680.3
20°	1677.3	1679.1	1676.7	1673.7	1670.1	1669.5	1667.7	1661.6	1653.8	1646.5	1638.7
22.5°	1635.7	1634.5	1632.7	1631.5	1625.4	1621.8	1619.4	1611.6	1603.1	1593.5	1583.8
25°	1578.4	1580.8	1577.2	1571.7	1568.7	1565.1	1559.1	1550.6	1542.8	1532.5	1521.1
27.5°	1510.8	1510.8	1506.0	1504.2	1497.5	1492.7	1489.7	1481.2	1471.0	1460.7	1448.0
30°	1433.0	1429.3	1429.3	1420.9	1415.5	1413.7	1410.6	1396.8	1387.7	1376.9	1364.2
32.5°	1338.8	1338.2	1335.8	1330.4	1323.2	1317.1	1317.1	1307.5	1295.4	1282.1	1274.3
35°	1230.2	1230.8	1229.6	1223.6	1223.6	1216.4	1215.2	1206.7	1197.1	1186.8	1177.1
37.5°	1118.0	1120.4	1118.0	1115.0	1113.2	1112.6	1107.2	1101.1	1093.9	1087.8	1080.6
40°	1009.4	1005.8	1007.0	1001.0	1001.6	1000.4	997.9	990.1	985.9	979.8	972.0
42.5°	892.4	896.0	897.2	893.6	892.4	889.9	892.4	889.3	884.5	881.5	874.3
45°	798.8	795.2	797.0	795.8	796.4	791.6	789.8	788.6	786.8	781.3	778.3
47.5°	705.9	706.5	705.9	703.5	702.3	702.3	699.9	696.3	696.3	692.6	690.2
50°	625.1	625.1	626.3	623.3	622.1	619.6	620.2	616.6	614.2	611.2	609.4
52.5°	550.9	551.5	549.1	549.7	548.4	548.4	546.0	543.6	541.2	535.8	534.6
55°	487.5	488.1	485.1	486.3	482.7	480.9	479.7	476.0	476.0	470.6	464.0
57.5°	428.4	427.8	427.2	425.4	423.0	421.1	419.3	415.1	413.3	409.7	404.2
60°	373.5	372.9	371.7	371.1	369.3	365.0	365.0	362.0	356.0	352.4	346.9
62.5°	321.6	321.6	321.0	319.2	317.4	315.6	314.3	311.9	305.9	301.7	296.8
65°	276.3	275.7	273.9	270.9	269.7	269.7	265.5	263.7	258.8	254.6	249.2
67.5°	232.9	230.5	229.3	229.9	226.3	226.3	222.6	219.6	215.4	208.2	203.9
70°	190.7	189.5	188.2	187.0	186.4	184.0	182.2	178.6	174.4	168.9	162.3
72.5°	152.6	152.6	150.8	149.6	147.8	145.4	144.2	141.2	136.4	130.3	125.5
75°	116.4	116.4	116.4	114.0	112.8	111.6	108.0	106.2	100.8	97.1	91.1
77.5°	85.7	84.5	82.7	82.1	80.8	79.6	77.8	74.8	70.0	65.8	62.1
80°	54.3	56.1	54.3	54.3	51.3	50.1	49.5	45.9	44.0	40.4	37.4
82.5°	30.2	30.8	29.6	29.0	27.2	26.5	26.5	24.1	22.9	20.5	18.7
85°	10.9	11.5	10.9	10.9	9.7	10.3	9.7	9.1	7.8	6.6	6.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1796.8	1795.6	1795.6	1795.0	1794.4	1794.4	1794.4	1793.8	1792.6	1792.6	1792.0
5°	1787.7	1786.5	1784.7	1783.5	1782.9	1782.3	1781.7	1781.1	1778.7	1778.1	1776.3
7.5°	1771.4	1770.2	1767.2	1766.0	1764.2	1763.6	1761.2	1760.0	1757.6	1755.2	1753.9
10°	1752.1	1749.1	1746.7	1743.7	1742.5	1740.7	1737.7	1734.0	1732.2	1729.2	1726.8
12.5°	1730.4	1726.8	1722.0	1718.3	1717.1	1714.1	1709.3	1706.3	1702.1	1697.2	1693.0
15°	1703.3	1699.0	1694.8	1688.2	1686.4	1682.8	1677.9	1671.9	1665.9	1661.0	1656.2
17.5°	1673.7	1667.1	1660.4	1653.2	1647.8	1645.9	1638.1	1629.7	1624.2	1615.8	1610.3
20°	1632.1	1623.0	1612.2	1604.9	1600.1	1594.7	1585.6	1576.6	1569.9	1562.7	1554.8
22.5°	1574.8	1566.3	1553.6	1542.8	1539.2	1531.3	1523.5	1515.0	1506.6	1498.7	1489.1
25°	1507.2	1498.1	1485.5	1474.6	1468.6	1464.9	1449.9	1441.4	1433.0	1426.3	1419.7
27.5°	1437.8	1421.5	1413.1	1396.2	1390.7	1389.5	1375.6	1366.6	1357.5	1348.5	1340.0
30°	1352.1	1339.4	1326.8	1314.7	1307.5	1303.2	1293.0	1281.5	1275.5	1269.5	1261.0
32.5°	1263.4	1252.0	1236.3	1224.8	1219.4	1213.3	1204.3	1196.4	1187.4	1180.8	1179.0
35°	1168.7	1156.0	1142.7	1134.3	1133.1	1125.9	1116.8	1110.2	1103.5	1093.3	1091.5
37.5°	1067.3	1060.1	1051.0	1039.0	1033.5	1033.5	1024.5	1019.7	1011.2	1010.6	1005.8
40°	967.8	964.8	950.9	947.3	946.1	937.6	935.2	926.7	920.7	920.1	912.9
42.5°	869.4	861.6	859.2	853.1	847.7	846.5	841.1	837.5	835.0	831.4	827.8
45°	771.7	769.9	763.8	759.6	757.8	755.4	753.6	746.3	745.1	742.1	740.3
47.5°	687.2	682.4	677.0	672.1	671.5	667.9	663.7	663.7	657.1	656.4	655.2
50°	603.4	599.7	596.7	590.1	591.3	586.5	585.9	580.4	577.4	575.0	578.0
52.5°	529.7	522.5	521.3	515.9	514.1	514.7	508.0	506.2	505.0	502.6	501.4
55°	459.8	456.1	451.3	447.7	444.7	441.7	439.2	439.2	432.6	433.2	430.2
57.5°	398.2	395.2	389.2	383.7	382.5	378.9	375.9	372.9	372.3	368.0	365.0
60°	343.3	337.9	330.0	327.6	324.0	321.0	318.0	314.3	312.5	309.5	304.1
62.5°	292.0	283.0	280.0	275.1	270.9	269.1	264.3	260.0	257.0	252.8	248.6
65°	243.2	236.5	231.1	225.7	225.1	220.2	216.0	212.4	206.3	202.7	194.9
67.5°	198.5	192.5	186.4	181.0	176.8	175.6	168.9	164.7	160.5	153.3	146.6
70°	157.5	151.4	146.6	140.0	138.2	133.3	128.5	124.3	117.1	110.4	105.0
72.5°	120.1	113.4	108.0	103.2	100.2	95.9	91.1	86.3	79.0	72.4	67.6
75°	85.7	80.8	75.4	70.6	68.2	65.8	60.3	54.9	50.1	43.4	39.2
77.5°	57.9	53.1	48.3	44.0	41.0	39.2	35.6	31.4	27.2	23.5	20.5
80°	33.8	30.8	27.2	23.5	22.9	21.1	18.1	15.7	13.3	11.5	9.1
82.5°	16.3	14.5	12.1	10.3	9.1	8.4	7.2	6.0	4.8	4.2	4.2
85°	4.8	4.2	3.6	3.0	2.4	2.4	1.8	1.8	1.8	1.8	1.8
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1790.1	1789.5	1788.9	1788.3	1787.1	1787.1	1785.3	1784.1	1784.1	1782.9	1782.3
5°	1774.5	1772.7	1772.0	1770.8	1769.6	1769.0	1766.6	1766.0	1764.8	1763.6	1763.6
7.5°	1752.1	1749.7	1747.3	1746.1	1745.5	1743.7	1742.5	1741.9	1740.1	1738.9	1736.4
10°	1722.6	1720.8	1717.7	1716.5	1715.3	1714.1	1711.1	1709.3	1708.7	1707.5	1706.3
12.5°	1688.2	1685.8	1682.8	1680.3	1679.1	1677.3	1674.3	1672.5	1672.5	1670.1	1670.1
15°	1651.4	1647.8	1642.3	1639.9	1639.3	1635.7	1633.3	1630.9	1627.8	1626.6	1626.6
17.5°	1604.3	1598.3	1593.5	1593.5	1591.0	1587.4	1583.8	1582.0	1580.2	1577.8	1576.6
20°	1548.8	1544.6	1539.2	1539.2	1533.7	1532.5	1528.9	1528.3	1524.1	1524.7	1522.9
22.5°	1481.8	1479.4	1476.4	1474.0	1471.0	1467.4	1465.5	1466.1	1464.3	1463.7	1463.1
25°	1414.3	1407.6	1404.0	1402.8	1401.6	1398.6	1397.4	1396.8	1396.8	1395.0	1395.6
27.5°	1336.4	1331.6	1326.8	1328.6	1326.2	1324.4	1323.2	1321.3	1322.5	1321.9	1322.5
30°	1256.8	1250.8	1247.7	1248.9	1248.3	1243.5	1245.9	1245.3	1245.9	1245.9	1247.1
32.5°	1172.9	1168.7	1168.1	1168.7	1163.3	1163.9	1161.5	1165.1	1165.7	1169.3	1166.3
35°	1087.8	1085.4	1081.2	1080.6	1081.2	1080.6	1080.6	1083.0	1082.4	1086.0	1084.8
37.5°	1000.4	999.2	994.9	996.1	993.7	997.9	999.2	997.9	1002.2	1001.0	1000.4
40°	914.7	912.9	910.5	915.3	912.3	909.9	914.1	910.5	911.7	915.3	915.3
42.5°	827.8	824.8	824.8	824.8	824.2	824.2	826.0	827.8	826.6	827.2	832.0
45°	740.3	739.7	737.9	739.1	738.5	741.5	741.5	742.7	745.1	747.6	746.3
47.5°	655.8	654.6	656.4	655.2	655.8	654.0	655.2	658.9	661.9	657.7	661.9
50°	576.8	574.4	573.8	575.6	575.0	574.4	575.6	575.6	574.4	574.4	578.6
52.5°	501.4	499.0	497.2	500.2	498.4	499.0	496.6	496.6	497.8	496.6	494.7
55°	430.8	429.0	426.6	427.8	424.8	424.2	421.7	421.7	419.9	418.7	415.1
57.5°	363.2	362.0	356.6	356.0	356.6	352.4	348.1	346.3	341.5	340.3	339.7
60°	303.5	296.8	293.8	290.2	287.8	286.0	281.2	278.1	270.9	266.7	266.1
62.5°	241.3	238.3	234.7	229.3	228.1	222.0	217.2	209.4	205.7	200.3	194.9
65°	191.3	183.4	178.0	175.0	170.1	164.7	159.3	150.8	146.6	140.0	134.5
67.5°	140.0	133.3	126.1	123.7	119.5	112.8	107.4	100.2	96.5	90.5	88.7
70°	95.9	89.9	84.5	80.8	77.8	71.2	65.8	63.4	59.7	58.5	58.5
72.5°	61.5	56.1	50.1	48.3	45.9	42.2	38.6	37.4	38.6	38.0	38.0
75°	34.4	31.4	27.2	25.3	25.3	24.1	23.5	23.5	23.5	23.5	23.5
77.5°	17.5	15.7	14.5	13.9	13.9	13.9	14.5	14.5	14.5	15.1	14.5
80°	8.4	7.8	7.8	7.8	8.4	8.4	8.4	8.4	8.4	9.1	8.4
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.8	4.8	4.8	4.8	4.8
85°	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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: P684248

CATALOG NUMBER: LX6C40D010 EX6C409027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1781.7	1780.5	1780.5	1779.9	1779.9	1779.9	1779.9	1780.5
5°	1762.4	1761.8	1761.8	1760.6	1760.6	1760.6	1760.6	1760.6
7.5°	1736.4	1735.2	1735.8	1734.6	1734.6	1735.2	1734.6	1734.0
10°	1704.5	1703.9	1704.5	1704.5	1703.3	1702.7	1703.3	1703.9
12.5°	1668.3	1667.7	1666.5	1667.1	1667.1	1666.5	1665.9	1664.6
15°	1626.0	1625.4	1624.8	1624.2	1623.6	1624.2	1623.6	1622.4
17.5°	1576.6	1576.6	1576.0	1575.4	1574.8	1573.5	1574.1	1576.0
20°	1523.5	1522.9	1521.7	1522.3	1519.8	1518.6	1519.2	1521.1
22.5°	1462.5	1460.7	1461.9	1460.1	1460.1	1460.7	1460.1	1458.9
25°	1396.2	1393.7	1395.0	1395.6	1395.6	1395.0	1394.3	1395.0
27.5°	1322.5	1324.4	1324.4	1323.2	1325.0	1322.5	1323.8	1324.4
30°	1247.1	1245.3	1244.7	1247.1	1250.8	1247.7	1247.7	1248.3
32.5°	1169.3	1166.9	1166.9	1168.1	1167.5	1167.5	1169.9	1166.9
35°	1086.0	1087.2	1082.4	1085.4	1086.6	1085.4	1086.0	1086.0
37.5°	1002.2	1001.0	1001.0	1001.0	1002.8	1002.8	1004.0	1003.4
40°	919.5	917.1	916.5	917.7	915.3	917.1	917.1	915.3
42.5°	830.2	830.8	833.8	830.8	831.4	830.8	829.6	829.0
45°	747.6	749.4	748.2	747.6	748.2	745.7	746.3	748.2
47.5°	660.1	663.7	660.1	662.5	661.9	660.7	659.5	657.1
50°	578.0	579.2	578.6	578.0	577.4	576.8	573.8	572.0
52.5°	494.1	494.1	494.1	494.1	488.1	491.1	489.9	486.3
55°	412.1	413.9	411.5	411.5	407.3	407.3	406.1	406.7
57.5°	333.1	331.2	329.4	329.4	325.2	323.4	321.6	319.2
60°	259.4	257.6	255.2	252.2	248.0	248.0	246.8	241.9
62.5°	190.1	187.0	185.2	182.8	179.2	176.8	175.0	176.2
65°	130.3	127.3	124.9	124.9	124.9	123.7	123.1	123.1
67.5°	85.7	87.5	86.3	87.5	87.5	86.3	85.7	86.9
70°	59.1	59.1	58.5	58.5	58.5	58.5	57.9	58.5
72.5°	38.0	38.0	38.0	38.6	38.0	38.0	38.6	38.6
75°	24.1	24.1	24.1	24.7	24.1	24.1	24.7	24.1
77.5°	14.5	15.1	15.1	15.1	15.1	14.5	15.1	15.1
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)