

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: P684190

Luminaire Tested: **LX6C30D010 EX6C309035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684190
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: LX6C30D010 EX6C309035 6LCSWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

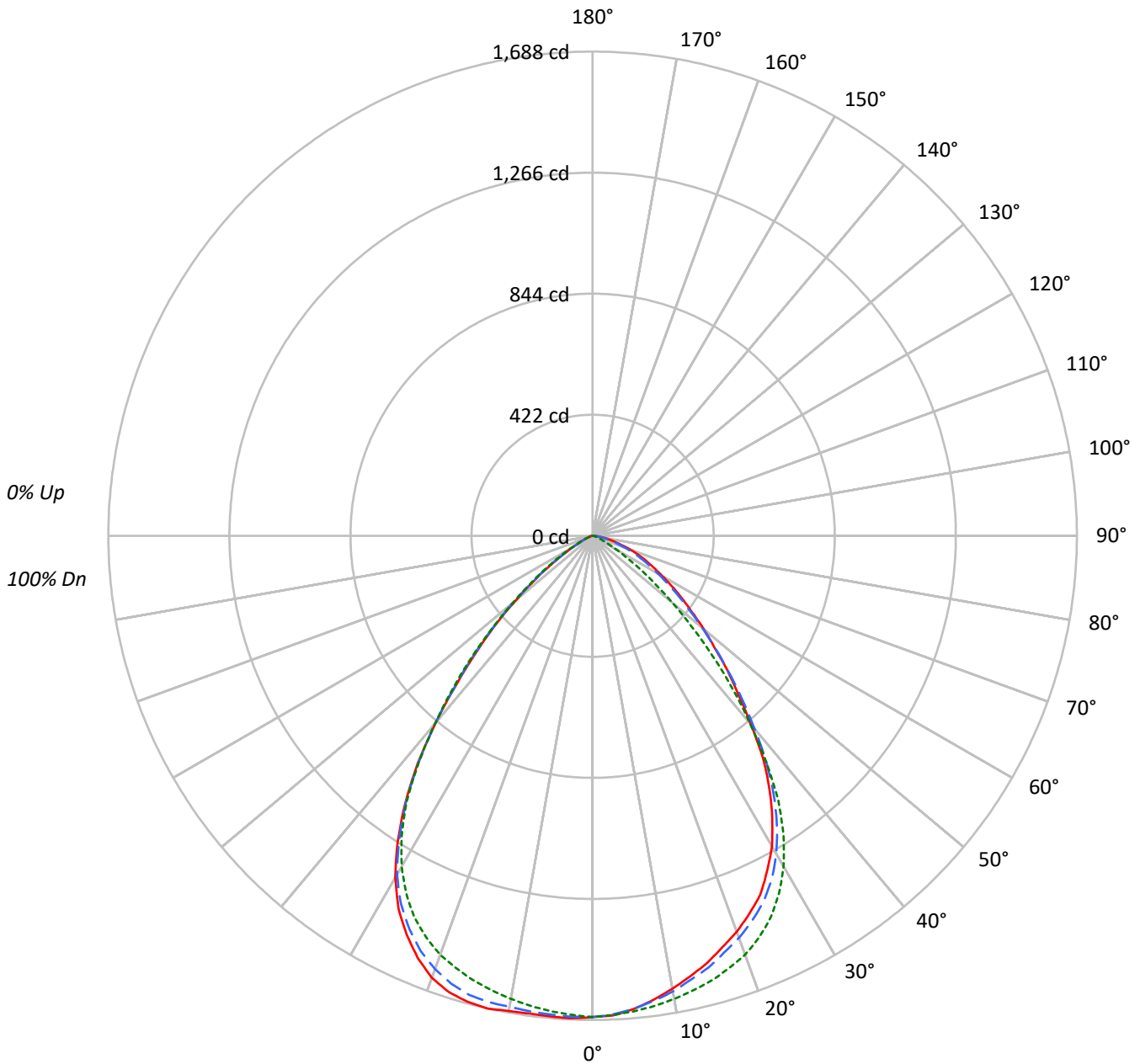
Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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°	91983	91983	91983
5°	91107	91553	92560
10°	89232	91259	93630
15°	87520	91085	95460
20°	85705	90675	95640
25°	83594	88862	92788
30°	79151	84279	87096
35°	71875	75536	76219
40°	61344	61050	60764
45°	51532	45718	44307
50°	43035	30933	29381
55°	36223	18981	17242
60°	30666	9999	8662
65°	26553	5253	4203
70°	22087	3254	2276
75°	16309	2139	1292
80°	12786	1263	663
85°	10190	1321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	5.6
10°-20°	452.8	16.1
20°-30°	668.6	23.8
30°-40°	689.0	24.5
40°-50°	475.9	16.9
50°-60°	234.6	8.3
60°-70°	95.0	3.4
70°-80°	33.9	1.2
80°-90°	7.0	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°	1279.5	45.5
0°-40°	1968.6	69.9
0°-60°	2679.1	95.2
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1678	1678	1678	1678	1678	
5°	1656	1656	1664	1676	1682	156
15°	1542	1558	1605	1658	1682	434
25°	1382	1408	1469	1512	1534	632
35°	1074	1100	1129	1135	1139	665
45°	665	669	590	582	572	514
55°	379	365	199	186	180	342
65°	205	184	40	32	32	203
75°	77	65	10	6	6	86
85°	16	12	2	0	0	20
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°	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9
2.5°	1673.8	1667.8	1671.8	1663.7	1673.8	1663.7	1665.8	1667.8	1665.8	1667.8	1669.8
5°	1655.6	1649.5	1655.6	1645.5	1655.6	1649.5	1649.5	1651.6	1651.6	1653.6	1655.6
7.5°	1631.3	1625.2	1631.3	1621.2	1633.3	1627.3	1627.3	1631.3	1629.2	1631.3	1635.3
10°	1603.0	1594.8	1600.9	1594.8	1607.0	1598.8	1603.0	1603.0	1603.0	1609.0	1613.1
12.5°	1572.6	1564.4	1572.6	1562.4	1574.5	1568.5	1570.5	1576.6	1578.6	1582.7	1584.7
15°	1542.1	1532.0	1536.1	1530.0	1542.1	1536.1	1538.1	1546.2	1546.2	1552.3	1558.4
17.5°	1503.7	1495.5	1503.7	1495.5	1505.6	1501.6	1505.6	1511.7	1511.7	1517.8	1523.9
20°	1469.1	1461.1	1467.2	1461.1	1473.3	1467.2	1469.1	1477.3	1479.3	1485.4	1491.5
22.5°	1426.6	1420.5	1424.6	1418.5	1430.7	1426.6	1428.7	1436.8	1438.8	1442.9	1453.0
25°	1382.0	1369.8	1375.9	1371.9	1384.1	1378.0	1382.0	1390.1	1394.2	1400.3	1408.4
27.5°	1317.2	1311.1	1315.1	1315.1	1325.3	1319.3	1321.2	1329.4	1335.4	1341.5	1351.6
30°	1250.4	1240.2	1244.3	1246.2	1254.4	1250.4	1254.4	1262.5	1264.5	1272.6	1280.7
32.5°	1165.2	1161.1	1169.3	1165.2	1169.3	1169.3	1171.3	1177.4	1181.4	1185.5	1195.6
35°	1074.0	1065.9	1074.0	1070.0	1080.1	1074.0	1080.1	1086.2	1086.2	1094.3	1100.4
37.5°	974.7	964.6	968.6	968.6	972.7	970.7	970.7	980.8	982.8	988.9	995.0
40°	857.2	853.1	861.3	859.2	861.3	861.3	863.2	869.3	873.4	875.4	877.5
42.5°	751.8	753.8	755.9	755.9	755.9	755.9	755.9	763.9	762.0	768.1	770.0
45°	664.7	656.6	660.6	658.6	664.7	658.6	664.7	670.8	666.7	672.8	668.7
47.5°	575.5	575.5	575.5	573.5	577.6	575.5	579.5	581.6	581.6	581.6	579.5
50°	504.6	498.5	500.5	500.5	502.6	500.5	504.6	506.6	506.6	502.6	494.5
52.5°	435.7	433.7	433.7	437.7	437.7	435.7	435.7	435.7	435.7	429.6	425.5
55°	379.0	374.9	376.9	376.9	376.9	376.9	379.0	376.9	376.9	370.8	364.8
57.5°	328.3	324.2	324.2	324.2	326.2	324.2	324.2	324.2	322.2	316.1	308.0
60°	279.7	277.6	279.7	279.7	281.7	279.7	279.7	279.7	275.6	269.5	261.4
62.5°	239.1	239.1	239.1	241.1	241.1	239.1	239.1	237.1	235.1	226.9	218.9
65°	204.7	202.6	204.7	204.7	206.7	206.7	204.7	202.6	200.6	192.5	184.4
67.5°	170.2	168.2	170.2	170.2	172.2	170.2	170.2	170.2	164.1	160.1	152.0
70°	137.8	135.8	135.8	135.8	137.8	133.7	135.8	135.8	131.8	125.7	117.5
72.5°	105.4	105.4	105.4	105.4	105.4	105.4	103.3	103.3	99.3	93.2	89.2
75°	77.0	77.0	79.0	79.0	77.0	77.0	77.0	75.0	72.9	68.9	64.8
77.5°	56.8	56.8	56.8	56.8	54.7	54.7	54.7	52.7	50.7	48.6	44.6
80°	40.5	40.5	40.5	38.5	40.5	38.5	38.5	38.5	34.4	32.4	30.4
82.5°	28.3	26.4	26.4	26.4	26.4	26.4	26.4	24.3	24.3	22.3	20.3
85°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.2	12.2	12.2
87.5°	8.1	10.1	10.1	10.1	10.1	10.1	10.1	8.1	8.1	8.1	6.1
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°	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9
2.5°	1669.8	1669.8	1673.8	1667.8	1677.9	1671.8	1669.8	1679.9	1673.8	1671.8	1675.9
5°	1655.6	1657.7	1659.7	1655.6	1665.8	1659.7	1659.7	1669.8	1665.8	1663.7	1669.8
7.5°	1637.4	1639.4	1643.4	1641.4	1649.5	1645.5	1647.5	1657.7	1653.6	1653.6	1659.7
10°	1615.1	1619.1	1623.2	1623.2	1633.3	1629.2	1629.2	1641.4	1637.4	1639.4	1647.5
12.5°	1588.7	1594.8	1600.9	1603.0	1613.1	1607.0	1609.0	1623.2	1621.2	1623.2	1631.3
15°	1560.4	1568.5	1574.5	1574.5	1586.7	1580.6	1586.7	1600.9	1596.9	1604.9	1615.1
17.5°	1528.0	1536.1	1544.1	1546.2	1558.4	1554.3	1562.4	1576.6	1576.6	1580.6	1592.8
20°	1497.6	1507.7	1511.7	1517.8	1530.0	1528.0	1532.0	1548.2	1548.2	1554.3	1566.5
22.5°	1457.0	1467.2	1475.2	1481.3	1491.5	1491.5	1497.6	1511.7	1511.7	1515.8	1528.0
25°	1412.4	1424.6	1430.7	1436.8	1446.9	1444.8	1450.9	1463.1	1465.1	1469.1	1481.3
27.5°	1355.7	1365.8	1374.0	1378.0	1392.2	1384.1	1390.1	1404.4	1402.3	1406.4	1416.5
30°	1284.8	1294.9	1303.0	1303.0	1315.1	1315.1	1321.2	1327.3	1327.3	1331.4	1339.5
32.5°	1201.7	1213.9	1213.9	1220.0	1228.0	1220.0	1228.0	1236.1	1232.1	1238.2	1244.3
35°	1106.4	1112.5	1114.6	1114.6	1120.7	1118.6	1116.5	1122.6	1118.6	1128.7	1134.8
37.5°	991.0	999.0	995.0	999.0	997.0	991.0	991.0	1001.1	992.9	995.0	1001.1
40°	879.5	879.5	877.5	867.4	869.3	863.2	861.3	863.2	855.2	853.1	861.3
42.5°	763.9	762.0	755.9	741.7	743.7	733.5	725.5	725.5	721.4	719.4	721.4
45°	660.6	654.5	644.4	628.2	624.1	616.0	599.8	595.8	589.7	589.7	591.7
47.5°	565.4	557.3	541.1	522.8	512.7	502.6	486.3	480.2	470.1	466.1	470.1
50°	486.3	472.2	451.9	425.5	415.4	403.3	387.0	376.9	366.8	362.7	360.7
52.5°	413.4	393.1	372.9	340.5	332.3	320.2	297.9	287.7	277.6	269.5	269.5
55°	350.5	332.3	304.0	273.6	261.4	249.3	226.9	212.8	202.6	198.6	194.5
57.5°	293.8	273.6	247.2	214.8	202.6	190.5	168.2	154.0	143.9	137.8	133.7
60°	247.2	225.0	198.6	170.2	156.1	143.9	121.6	107.4	97.2	91.2	87.1
62.5°	202.6	184.4	158.0	131.8	119.6	107.4	89.2	75.0	64.8	60.8	54.7
65°	170.2	152.0	127.6	105.4	95.3	83.1	66.9	54.7	46.6	40.5	36.5
67.5°	137.8	123.6	103.3	83.1	72.9	64.8	50.7	40.5	32.4	28.3	26.4
70°	109.4	95.3	79.0	62.8	56.8	48.6	38.5	28.3	24.3	20.3	18.2
72.5°	81.1	70.9	58.8	46.6	40.5	36.5	26.4	22.3	16.2	14.2	12.2
75°	58.8	50.7	42.5	32.4	28.3	26.4	20.3	14.2	12.2	10.1	8.1
77.5°	40.5	36.5	28.3	22.3	20.3	18.2	14.2	10.1	8.1	6.1	6.1
80°	26.4	22.3	18.2	14.2	14.2	12.2	8.1	6.1	6.1	4.0	4.0
82.5°	16.2	14.2	12.2	10.1	8.1	8.1	6.1	4.0	4.0	2.1	2.1
85°	10.1	8.1	6.1	6.1	4.0	4.0	4.0	2.1	2.1	2.1	2.1
87.5°	4.0	4.0	4.0	2.1	2.1	2.1	2.1	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°	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9
2.5°	1675.9	1675.9	1679.9	1673.8	1677.9	1677.9	1682.0	1673.8	1677.9	1679.9	1684.0
5°	1667.8	1669.8	1673.8	1671.8	1673.8	1673.8	1677.9	1667.8	1675.9	1675.9	1682.0
7.5°	1659.7	1659.7	1663.7	1661.7	1665.8	1667.8	1671.8	1663.7	1671.8	1671.8	1677.9
10°	1649.5	1649.5	1655.6	1653.6	1659.7	1661.7	1667.8	1659.7	1667.8	1669.8	1675.9
12.5°	1635.3	1637.4	1643.4	1643.4	1649.5	1653.6	1659.7	1655.6	1665.8	1667.8	1675.9
15°	1619.1	1623.2	1631.3	1629.2	1635.3	1641.4	1649.5	1643.4	1657.7	1661.7	1669.8
17.5°	1598.8	1603.0	1609.0	1609.0	1615.1	1619.1	1629.2	1625.2	1637.4	1639.4	1649.5
20°	1568.5	1574.5	1582.7	1580.6	1586.7	1590.8	1598.8	1594.8	1607.0	1611.0	1621.2
22.5°	1532.0	1536.1	1542.1	1542.1	1548.2	1552.3	1560.4	1554.3	1566.5	1568.5	1576.6
25°	1483.4	1487.4	1491.5	1493.5	1499.5	1501.6	1505.6	1501.6	1511.7	1513.8	1523.9
27.5°	1420.5	1422.6	1428.7	1428.7	1432.7	1434.7	1440.8	1432.7	1446.9	1446.9	1453.0
30°	1345.5	1343.6	1351.6	1347.6	1351.6	1351.6	1357.7	1353.7	1363.8	1359.8	1365.8
32.5°	1246.2	1250.4	1250.4	1246.2	1254.4	1252.3	1252.3	1248.3	1254.4	1256.4	1260.4
35°	1130.8	1136.8	1136.8	1138.9	1140.9	1134.8	1136.8	1124.7	1134.8	1136.8	1138.9
37.5°	1005.1	999.0	1003.1	997.0	1007.1	995.0	995.0	986.9	995.0	995.0	997.0
40°	861.3	859.2	863.2	859.2	857.2	855.2	851.1	845.0	853.1	849.1	855.2
42.5°	725.5	723.4	723.4	719.4	717.4	717.4	713.3	709.2	707.3	707.3	717.4
45°	585.6	589.7	585.6	583.6	587.7	583.6	585.6	577.6	581.6	577.6	581.6
47.5°	468.1	470.1	466.1	462.0	468.1	462.0	462.0	455.9	464.1	464.1	460.0
50°	362.7	360.7	356.6	360.7	358.7	358.7	358.7	352.6	356.6	350.5	354.7
52.5°	267.5	265.5	265.5	263.4	265.5	263.4	263.4	261.4	261.4	259.4	261.4
55°	194.5	192.5	188.5	188.5	188.5	190.5	188.5	186.5	186.5	184.4	186.5
57.5°	131.8	127.6	127.6	127.6	127.6	125.7	125.7	123.6	125.7	123.6	125.7
60°	85.1	85.1	81.1	81.1	81.1	81.1	81.1	79.0	81.1	81.1	81.1
62.5°	52.7	52.7	50.7	48.6	50.7	48.6	48.6	48.6	50.7	48.6	50.7
65°	34.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
67.5°	24.3	22.3	22.3	22.3	22.3	22.3	22.3	20.3	22.3	22.3	22.3
70°	16.2	16.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	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	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P684190

CATALOG NUMBER: LX6C30D010 EX6C309035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9
2.5°	1677.9	1679.9	1675.9	1677.9	1673.8	1677.9	1679.9	1684.0
5°	1673.8	1675.9	1671.8	1675.9	1671.8	1675.9	1677.9	1682.0
7.5°	1669.8	1673.8	1669.8	1673.8	1669.8	1673.8	1675.9	1679.9
10°	1669.8	1675.9	1671.8	1677.9	1671.8	1675.9	1679.9	1682.0
12.5°	1669.8	1675.9	1673.8	1677.9	1675.9	1679.9	1684.0	1688.0
15°	1665.8	1671.8	1667.8	1673.8	1671.8	1673.8	1682.0	1682.0
17.5°	1643.4	1649.5	1649.5	1653.6	1653.6	1659.7	1663.7	1667.8
20°	1615.1	1621.2	1619.1	1625.2	1625.2	1631.3	1635.3	1639.4
22.5°	1572.6	1580.6	1578.6	1584.7	1582.7	1586.7	1594.8	1592.8
25°	1517.8	1528.0	1525.9	1530.0	1528.0	1528.0	1532.0	1534.0
27.5°	1450.9	1457.0	1455.0	1459.1	1455.0	1459.1	1463.1	1465.1
30°	1363.8	1367.9	1365.8	1367.9	1365.8	1369.8	1371.9	1375.9
32.5°	1258.4	1264.5	1258.4	1262.5	1260.4	1260.4	1268.6	1264.5
35°	1132.8	1134.8	1136.8	1136.8	1132.8	1134.8	1138.9	1138.9
37.5°	992.9	1003.1	991.0	997.0	995.0	995.0	995.0	1001.1
40°	847.1	849.1	845.0	845.0	845.0	843.0	851.1	849.1
42.5°	709.2	711.3	709.2	703.2	705.2	705.2	711.3	703.2
45°	575.5	579.5	577.6	577.6	573.5	573.5	575.5	571.5
47.5°	455.9	460.0	453.9	455.9	451.9	455.9	453.9	458.0
50°	346.5	350.5	348.6	350.5	350.5	346.5	352.6	344.5
52.5°	259.4	261.4	259.4	257.3	255.4	255.4	259.4	257.3
55°	184.4	182.4	182.4	182.4	184.4	184.4	182.4	180.4
57.5°	123.6	123.6	121.6	121.6	123.6	119.6	121.6	119.6
60°	79.0	79.0	79.0	79.0	77.0	79.0	79.0	79.0
62.5°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
65°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
67.5°	20.3	22.3	22.3	22.3	20.3	20.3	20.3	20.3
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	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)