

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: P563933

Luminaire Tested: **LX6C35D010 EX6C359030 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563933  
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: LX6C35D010 EX6C359030 6LBLWWH  
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

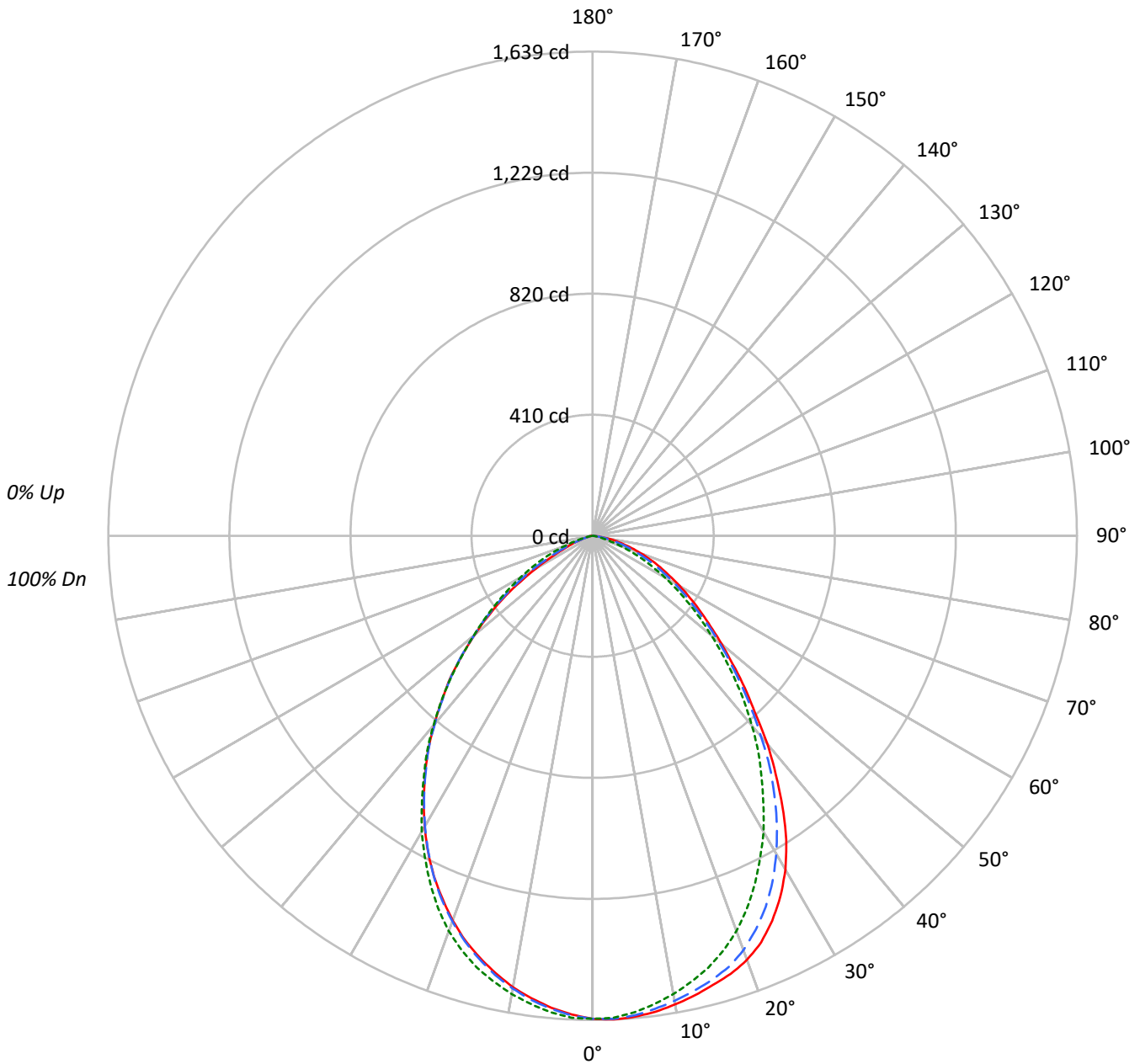
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2974.3 lumens  
Efficiency: N/A  
Efficacy: 73.6 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): 40.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	89636	89636	89636
5°	89951	89137	88256
10°	89672	87685	86399
15°	89336	85880	83882
20°	89135	83051	80834
25°	86969	78597	76867
30°	82633	73207	71986
35°	74994	66649	66207
40°	65802	59984	59669
45°	56417	52409	52835
50°	48561	44672	44434
55°	42445	37724	35411
60°	37311	30919	24165
65°	32662	23958	14541
70°	27825	16125	8543
75°	22473	8388	4660
80°	15595	3315	2589
85°	6227	1006	1384



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.2	5.2
10°-20°	427.8	14.4
20°-30°	608.8	20.5
30°-40°	640.8	21.5
40°-50°	534.0	18.0
50°-60°	360.8	12.1
60°-70°	182.9	6.2
70°-80°	59.0	2.0
80°-90°	6.8	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°	1189.9	40.0
0°-40°	1830.7	61.6
0°-60°	2725.5	91.6
0°-90°	2974.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2974.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1635	1635	1635	1635	1635	
5°	1635	1630	1620	1608	1604	155
15°	1574	1557	1513	1483	1478	445
25°	1438	1386	1299	1272	1271	659
35°	1121	1072	996	986	989	697
45°	728	709	676	679	682	563
55°	444	423	395	383	370	400
65°	252	227	185	134	112	251
75°	106	83	40	22	22	114
85°	10	6	2	2	2	17
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°	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1
2.5°	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1638.4	1638.4	1637.4	1637.4	1636.8
5°	1634.6	1635.1	1635.1	1634.6	1634.6	1633.5	1633.5	1632.9	1631.3	1630.2	1629.7
7.5°	1625.3	1625.3	1624.7	1624.2	1623.7	1621.9	1621.4	1619.8	1618.7	1617.6	1615.4
10°	1610.9	1610.9	1610.4	1609.3	1608.8	1607.7	1607.7	1605.4	1603.3	1600.6	1598.8
12.5°	1594.0	1594.5	1593.3	1592.8	1591.2	1590.6	1589.6	1586.8	1585.1	1581.8	1579.1
15°	1574.1	1575.2	1575.2	1573.0	1571.4	1570.9	1569.2	1567.5	1563.7	1560.4	1557.1
17.5°	1554.9	1556.0	1554.9	1553.3	1551.6	1549.4	1548.3	1545.0	1540.0	1535.7	1530.7
20°	1527.9	1529.7	1527.4	1524.7	1521.4	1520.8	1519.2	1513.7	1506.6	1500.0	1492.8
22.5°	1490.1	1489.0	1487.3	1486.2	1480.7	1477.4	1475.2	1468.0	1460.4	1451.5	1442.8
25°	1437.8	1440.1	1436.7	1431.8	1429.1	1425.7	1420.2	1412.6	1405.4	1396.1	1385.6
27.5°	1376.3	1376.3	1371.9	1370.3	1364.2	1359.8	1357.0	1349.3	1340.0	1330.7	1319.1
30°	1305.4	1302.1	1302.1	1294.4	1289.4	1287.8	1285.0	1272.4	1264.2	1254.3	1242.7
32.5°	1219.6	1219.1	1216.9	1211.9	1205.4	1199.9	1199.9	1191.0	1180.1	1167.9	1160.8
35°	1120.6	1121.3	1120.1	1114.6	1114.6	1108.0	1106.9	1099.3	1090.4	1081.1	1072.3
37.5°	1018.4	1020.7	1018.4	1015.7	1014.0	1013.5	1008.6	1003.1	996.4	991.0	984.3
40°	919.5	916.2	917.3	911.8	912.4	911.3	909.1	902.0	898.1	892.6	885.5
42.5°	812.9	816.2	817.3	814.0	812.9	810.7	812.9	810.2	805.7	803.0	796.4
45°	727.7	724.4	726.1	725.0	725.5	721.1	719.5	718.3	716.7	711.7	709.0
47.5°	643.1	643.6	643.1	640.8	639.8	639.8	637.6	634.2	634.2	631.0	628.7
50°	569.4	569.4	570.5	567.8	566.7	564.4	565.1	561.7	559.6	556.8	555.1
52.5°	501.8	502.4	500.2	500.7	499.6	499.6	497.4	495.2	493.0	488.1	486.9
55°	444.1	444.6	441.9	443.0	439.7	438.0	437.0	433.6	433.6	428.7	422.6
57.5°	390.2	389.7	389.2	387.5	385.3	383.7	382.0	378.2	376.5	373.2	368.2
60°	340.3	339.6	338.5	338.0	336.4	332.5	332.5	329.8	324.3	321.0	316.0
62.5°	293.0	293.0	292.4	290.7	289.1	287.5	286.3	284.2	278.7	274.8	270.4
65°	251.8	251.1	249.5	246.8	245.7	245.7	241.8	240.2	235.8	231.9	227.0
67.5°	212.2	210.0	208.8	209.4	206.1	206.1	202.8	200.1	196.2	189.6	185.7
70°	173.6	172.6	171.5	170.4	169.9	167.6	166.0	162.7	158.9	153.9	147.9
72.5°	139.1	139.1	137.4	136.3	134.7	132.4	131.3	128.6	124.2	118.7	114.3
75°	106.1	106.1	106.1	103.9	102.7	101.7	98.4	96.7	91.8	88.5	83.0
77.5°	78.0	76.9	75.3	74.8	73.6	72.5	70.9	68.2	63.8	59.9	56.7
80°	49.4	51.2	49.4	49.4	46.7	45.6	45.1	41.8	40.1	36.8	34.1
82.5°	27.5	28.1	27.0	26.3	24.7	24.2	24.2	22.0	20.9	18.7	17.1
85°	9.9	10.5	9.9	9.9	8.7	9.4	8.7	8.2	7.1	6.0	5.5
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1
2.5°	1636.8	1635.7	1635.7	1635.1	1634.6	1634.6	1634.6	1634.0	1632.9	1632.9	1632.4
5°	1628.5	1627.4	1625.8	1624.7	1624.2	1623.7	1623.0	1622.5	1620.3	1619.8	1618.2
7.5°	1613.7	1612.7	1609.8	1608.8	1607.1	1606.6	1604.3	1603.3	1601.1	1598.8	1597.8
10°	1596.1	1593.3	1591.2	1588.5	1587.3	1585.7	1583.0	1579.6	1578.0	1575.2	1573.0
12.5°	1576.4	1573.0	1568.6	1565.4	1564.3	1561.5	1557.1	1554.4	1550.5	1546.1	1542.3
15°	1551.6	1547.8	1543.9	1537.9	1536.2	1532.9	1528.5	1523.1	1517.6	1513.2	1508.7
17.5°	1524.7	1518.7	1512.6	1506.0	1501.1	1499.4	1492.2	1484.6	1479.6	1471.9	1467.0
20°	1486.7	1478.5	1468.6	1462.0	1457.6	1452.7	1444.4	1436.2	1430.2	1423.6	1416.5
22.5°	1434.6	1426.8	1415.3	1405.4	1402.1	1395.0	1387.9	1380.1	1372.4	1365.3	1356.5
25°	1373.0	1364.8	1353.2	1343.3	1337.8	1334.5	1320.7	1313.1	1305.4	1299.4	1293.3
27.5°	1309.7	1294.9	1287.3	1271.8	1266.9	1265.8	1253.2	1245.0	1236.7	1228.5	1220.7
30°	1231.7	1220.2	1208.6	1197.7	1191.0	1187.2	1177.8	1167.4	1161.9	1156.5	1148.7
32.5°	1151.0	1140.5	1126.2	1115.8	1110.8	1105.3	1097.1	1089.9	1081.7	1075.6	1074.0
35°	1064.6	1053.1	1041.0	1033.3	1032.3	1025.6	1017.4	1011.3	1005.3	995.9	994.3
37.5°	972.3	965.7	957.5	946.5	941.5	941.5	933.3	928.9	921.2	920.7	916.2
40°	881.6	878.9	866.2	862.9	861.8	854.1	851.9	844.3	838.8	838.2	831.6
42.5°	792.0	784.9	782.6	777.1	772.3	771.1	766.2	762.9	760.7	757.4	754.1
45°	703.0	701.4	695.9	692.0	690.4	688.1	686.5	679.9	678.8	676.0	674.4
47.5°	626.0	621.6	616.7	612.3	611.7	608.5	604.6	604.6	598.5	598.0	596.9
50°	549.6	546.3	543.6	537.6	538.6	534.2	533.7	528.7	526.0	523.8	526.5
52.5°	482.6	475.9	474.9	469.9	468.3	468.8	462.8	461.1	460.1	457.8	456.7
55°	418.8	415.5	411.2	407.8	405.0	402.3	400.2	400.2	394.1	394.7	391.9
57.5°	362.7	360.0	354.5	349.6	348.5	345.1	342.4	339.6	339.1	335.3	332.5
60°	312.8	307.8	300.7	298.4	295.2	292.4	289.7	286.3	284.7	282.0	277.0
62.5°	266.0	257.8	255.0	250.6	246.8	245.1	240.8	236.9	234.2	230.3	226.4
65°	221.5	215.4	210.5	205.6	205.0	200.6	196.7	193.5	188.0	184.7	177.5
67.5°	180.9	175.4	169.9	164.9	161.0	159.9	153.9	150.0	146.2	139.6	133.6
70°	143.4	137.9	133.6	127.6	125.8	121.5	117.1	113.2	106.6	100.6	95.6
72.5°	109.3	103.3	98.4	94.0	91.2	87.4	83.0	78.6	72.0	65.9	61.5
75°	78.0	73.6	68.7	64.3	62.2	59.9	54.9	50.0	45.6	39.6	35.7
77.5°	52.8	48.3	43.9	40.1	37.3	35.7	32.4	28.6	24.7	21.5	18.7
80°	30.8	28.1	24.7	21.5	20.9	19.2	16.5	14.2	12.1	10.5	8.2
82.5°	14.9	13.2	11.0	9.4	8.2	7.7	6.6	5.5	4.4	3.9	3.9
85°	4.4	3.9	3.3	2.7	2.2	2.2	1.6	1.6	1.6	1.6	1.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1
2.5°	1630.8	1630.2	1629.7	1629.1	1628.0	1628.0	1626.4	1625.3	1625.3	1624.2	1623.7
5°	1616.4	1614.8	1614.3	1613.2	1612.1	1611.5	1609.3	1608.8	1607.7	1606.6	1606.6
7.5°	1596.1	1594.0	1591.7	1590.6	1590.1	1588.5	1587.3	1586.8	1585.1	1584.1	1581.8
10°	1569.2	1567.5	1564.8	1563.7	1562.6	1561.5	1558.8	1557.1	1556.5	1555.5	1554.4
12.5°	1537.9	1535.7	1532.9	1530.7	1529.7	1527.9	1525.2	1523.6	1523.6	1521.4	1521.4
15°	1504.3	1501.1	1496.1	1493.9	1493.4	1490.1	1487.9	1485.6	1482.9	1481.9	1481.9
17.5°	1461.5	1456.0	1451.5	1451.5	1449.4	1446.1	1442.8	1441.2	1439.4	1437.3	1436.2
20°	1410.9	1407.1	1402.1	1402.1	1397.1	1396.1	1392.8	1392.2	1388.4	1388.9	1387.3
22.5°	1349.9	1347.7	1344.9	1342.7	1340.0	1336.7	1335.1	1335.6	1334.0	1333.4	1332.8
25°	1288.4	1282.3	1279.0	1277.9	1276.8	1274.0	1272.9	1272.4	1272.4	1270.8	1271.3
27.5°	1217.4	1213.0	1208.6	1210.3	1208.1	1206.4	1205.4	1203.7	1204.8	1204.3	1204.8
30°	1144.9	1139.4	1136.6	1137.7	1137.2	1132.8	1135.0	1134.5	1135.0	1135.0	1136.1
32.5°	1068.5	1064.6	1064.1	1064.6	1059.7	1060.2	1058.1	1061.3	1061.9	1065.2	1062.5
35°	991.0	988.8	985.0	984.3	985.0	984.3	984.3	986.6	986.1	989.3	988.2
37.5°	911.3	910.2	906.3	907.4	905.2	909.1	910.2	909.1	912.9	911.8	911.3
40°	833.3	831.6	829.4	833.8	831.1	828.8	832.7	829.4	830.5	833.8	833.8
42.5°	754.1	751.3	751.3	751.3	750.8	750.8	752.4	754.1	753.0	753.5	757.9
45°	674.4	673.9	672.2	673.3	672.8	675.5	675.5	676.6	678.8	681.0	679.9
47.5°	597.4	596.4	598.0	596.9	597.4	595.8	596.9	600.1	603.0	599.1	603.0
50°	525.5	523.2	522.7	524.4	523.8	523.2	524.4	524.4	523.2	523.2	527.1
52.5°	456.7	454.6	452.9	455.6	454.0	454.6	452.3	452.3	453.5	452.3	450.7
55°	392.4	390.8	388.6	389.7	386.9	386.4	384.2	384.2	382.6	381.5	378.2
57.5°	330.9	329.8	324.8	324.3	324.8	321.0	317.2	315.5	311.1	310.0	309.4
60°	276.5	270.4	267.6	264.4	262.1	260.5	256.1	253.4	246.8	242.9	242.4
62.5°	219.8	217.1	213.8	208.8	207.7	202.2	197.8	190.7	187.5	182.5	177.5
65°	174.2	167.1	162.1	159.4	155.0	150.0	145.1	137.4	133.6	127.6	122.6
67.5°	127.6	121.5	114.8	112.7	108.8	102.7	97.9	91.2	88.0	82.5	80.8
70°	87.4	81.9	76.9	73.6	70.9	64.9	59.9	57.7	54.4	53.3	53.3
72.5°	56.0	51.2	45.6	43.9	41.8	38.5	35.2	34.1	35.2	34.6	34.6
75°	31.3	28.6	24.7	23.1	23.1	22.0	21.5	21.5	21.5	21.5	21.5
77.5°	16.0	14.2	13.2	12.6	12.6	12.6	13.2	13.2	13.2	13.7	13.2
80°	7.7	7.1	7.1	7.1	7.7	7.7	7.7	7.7	7.7	8.2	7.7
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.4	4.4	4.4	4.4
85°	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P563933

CATALOG NUMBER: LX6C35D010 EX6C359030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1	1635.1
2.5°	1623.0	1621.9	1621.9	1621.4	1621.4	1621.4	1621.4	1621.9
5°	1605.4	1604.9	1604.9	1603.8	1603.8	1603.8	1603.8	1603.8
7.5°	1581.8	1580.7	1581.3	1580.2	1580.2	1580.7	1580.2	1579.6
10°	1552.8	1552.1	1552.8	1552.8	1551.6	1551.0	1551.6	1552.1
12.5°	1519.7	1519.2	1518.1	1518.7	1518.7	1518.1	1517.6	1516.4
15°	1481.2	1480.7	1480.1	1479.6	1479.0	1479.6	1479.0	1478.0
17.5°	1436.2	1436.2	1435.7	1435.1	1434.6	1433.4	1433.9	1435.7
20°	1387.9	1387.3	1386.1	1386.7	1384.5	1383.4	1384.0	1385.6
22.5°	1332.3	1330.7	1331.7	1330.1	1330.1	1330.7	1330.1	1329.0
25°	1271.8	1269.7	1270.8	1271.3	1271.3	1270.8	1270.2	1270.8
27.5°	1204.8	1206.4	1206.4	1205.4	1207.0	1204.8	1205.9	1206.4
30°	1136.1	1134.5	1133.9	1136.1	1139.4	1136.6	1136.6	1137.2
32.5°	1065.2	1063.0	1063.0	1064.1	1063.6	1063.6	1065.7	1063.0
35°	989.3	990.4	986.1	988.8	989.8	988.8	989.3	989.3
37.5°	912.9	911.8	911.8	911.8	913.4	913.4	914.6	914.1
40°	837.7	835.4	834.9	836.0	833.8	835.4	835.4	833.8
42.5°	756.3	756.8	759.5	756.8	757.4	756.8	755.8	755.2
45°	681.0	682.6	681.5	681.0	681.5	679.4	679.9	681.5
47.5°	601.3	604.6	601.3	603.5	603.0	601.9	600.8	598.5
50°	526.5	527.6	527.1	526.5	526.0	525.5	522.7	521.0
52.5°	450.1	450.1	450.1	450.1	444.6	447.4	446.3	443.0
55°	375.4	377.1	374.8	374.8	371.0	371.0	369.9	370.5
57.5°	303.4	301.7	300.1	300.1	296.2	294.6	293.0	290.7
60°	236.3	234.7	232.5	229.8	225.9	225.9	224.8	220.4
62.5°	173.1	170.4	168.8	166.5	163.3	161.0	159.4	160.5
65°	118.7	116.0	113.7	113.7	113.7	112.7	112.1	112.1
67.5°	78.0	79.6	78.6	79.6	79.6	78.6	78.0	79.1
70°	53.9	53.9	53.3	53.3	53.3	53.3	52.8	53.3
72.5°	34.6	34.6	34.6	35.2	34.6	34.6	35.2	35.2
75°	22.0	22.0	22.0	22.6	22.0	22.0	22.6	22.0
77.5°	13.2	13.7	13.7	13.7	13.7	13.2	13.7	13.7
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)