

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: P857889

Luminaire Tested: **LX4C40D010 EX4C409027 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409027 4LBLWW*
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

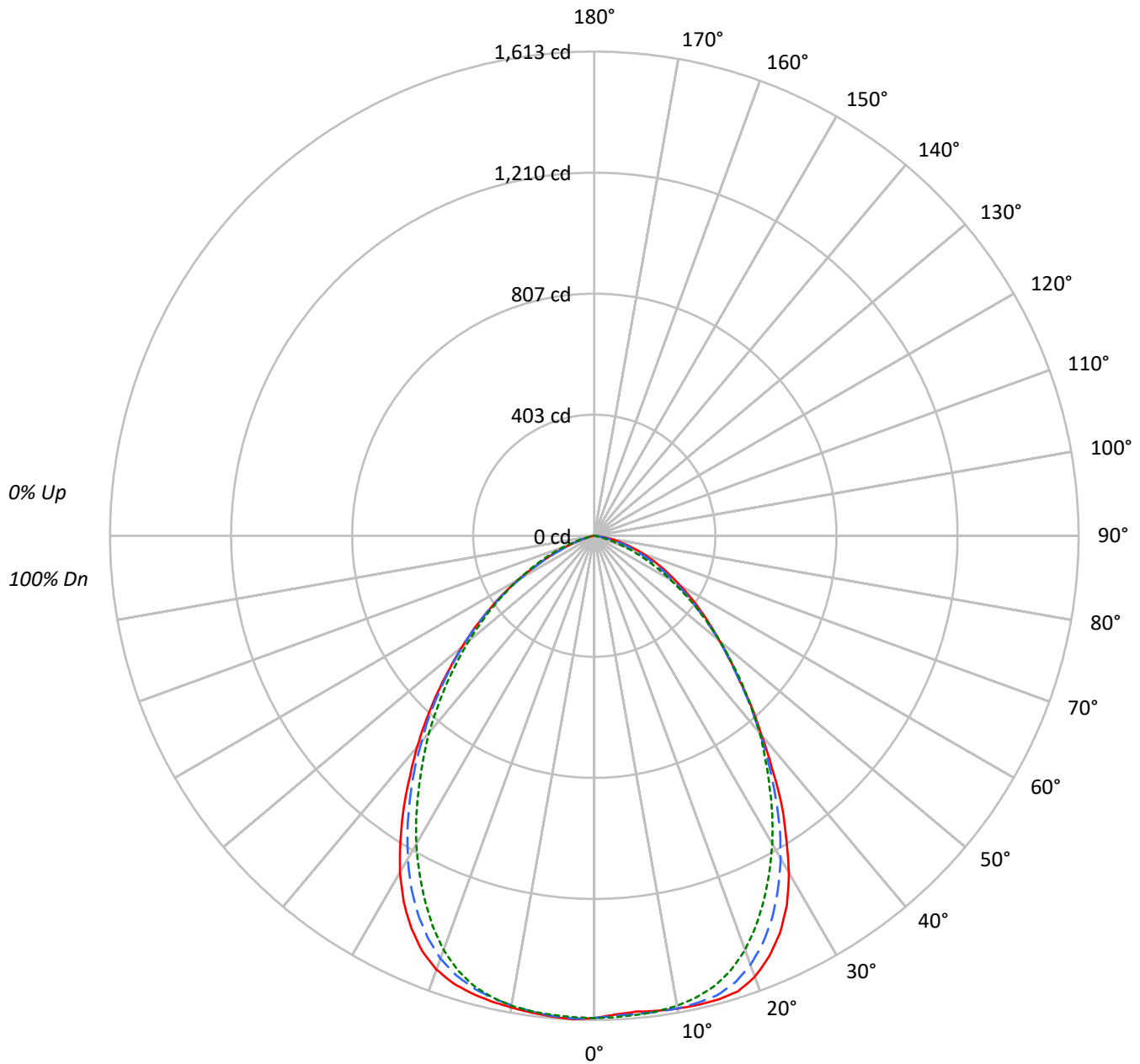
Lumens per Lamp: N/A
Luminaire Lumens: 3080.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
Input Current (Ain): 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

TEST NUMBER: P857889

CATALOG NUMBER: LX4C40D010 EX4C409027 4LBLWW*

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	197364	197364	197364
5°	196256	197600	198340
10°	199511	198301	199061
15°	203411	197420	200727
20°	204435	191897	201036
25°	198139	181222	195441
30°	183906	168160	183566
35°	162859	152541	165934
40°	138836	137392	147159
45°	119273	120646	128186
50°	104125	104355	109878
55°	91994	88117	91094
60°	80641	71894	71599
65°	71366	55756	49622
70°	60884	38363	29454
75°	49271	20601	13481
80°	33747	5094	3396
85°	10149	1692	1692



TEST NUMBER: P857889

CATALOG NUMBER: LX4C40D010 EX4C409027 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	5.0
10°-20°	442.0	14.4
20°-30°	638.6	20.7
30°-40°	660.2	21.4
40°-50°	545.5	17.7
50°-60°	376.5	12.2
60°-70°	197.1	6.4
70°-80°	62.1	2.0
80°-90°	5.3	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°	1233.3	40.0
0°-40°	1893.6	61.5
0°-60°	2815.6	91.4
0°-90°	3080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1606	1606	1606	1606	1606	
5°	1591	1599	1602	1605	1608	152
15°	1599	1584	1552	1560	1578	451
25°	1462	1403	1337	1391	1442	667
35°	1086	1050	1017	1070	1106	674
45°	686	684	694	726	738	535
55°	430	416	411	423	425	386
65°	246	223	192	159	171	243
75°	104	81	43	30	28	111
85°	7	4	1	1	1	15
90°	0	0	0	0	0	



TEST NUMBER: P857889

CATALOG NUMBER: LX4C40D010 EX4C409027 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5
2.5°	1596.3	1596.9	1596.9	1598.1	1598.1	1598.1	1598.7	1598.7	1599.3	1599.9	1600.5
5°	1591.4	1591.4	1592.6	1593.3	1594.5	1595.1	1596.3	1596.9	1598.1	1598.7	1599.3
7.5°	1596.3	1596.3	1596.9	1597.5	1597.5	1598.1	1598.1	1598.7	1599.3	1599.9	1599.9
10°	1599.3	1599.3	1599.3	1599.3	1599.9	1599.9	1599.9	1599.3	1599.3	1599.3	1598.7
12.5°	1600.5	1600.5	1599.9	1599.3	1599.9	1599.3	1599.3	1597.5	1596.3	1595.1	1593.3
15°	1599.3	1599.3	1598.7	1598.1	1597.5	1596.3	1595.7	1592.6	1590.2	1586.6	1584.2
17.5°	1591.4	1590.2	1589.0	1587.8	1585.4	1583.6	1582.4	1577.0	1572.7	1566.7	1560.1
20°	1563.7	1562.5	1560.7	1557.7	1554.6	1552.2	1548.6	1540.8	1536.5	1527.5	1520.9
22.5°	1518.4	1517.2	1517.8	1512.4	1506.4	1502.8	1500.3	1493.7	1486.5	1475.0	1467.8
25°	1461.7	1458.1	1458.1	1449.7	1446.7	1444.2	1441.2	1433.4	1422.5	1412.3	1402.6
27.5°	1388.1	1383.3	1380.9	1379.7	1372.5	1367.0	1362.8	1356.8	1347.7	1338.7	1325.4
30°	1296.4	1295.8	1292.8	1287.4	1282.0	1279.5	1274.7	1264.5	1256.0	1249.4	1240.9
32.5°	1188.5	1187.8	1187.8	1187.8	1184.2	1183.6	1176.4	1171.0	1164.3	1154.1	1148.6
35°	1085.9	1085.3	1085.9	1076.8	1074.4	1072.6	1072.0	1068.4	1059.4	1054.5	1049.7
37.5°	970.1	971.9	970.7	968.3	971.3	965.8	970.1	962.2	958.6	957.4	952.0
40°	865.7	870.5	865.7	866.3	869.3	863.9	863.9	862.7	860.3	859.1	857.9
42.5°	776.4	770.4	774.0	771.0	774.0	772.2	769.2	771.0	771.6	769.2	768.6
45°	686.5	687.7	688.9	687.1	687.1	685.3	690.1	687.1	687.1	687.7	683.5
47.5°	613.5	611.7	612.9	611.7	612.3	611.1	612.3	612.9	611.7	611.7	608.1
50°	544.8	543.6	547.8	544.2	544.2	543.6	544.2	542.9	541.1	541.1	542.3
52.5°	485.0	482.6	482.0	485.0	480.8	480.8	481.4	480.2	477.8	476.6	473.6
55°	429.5	428.9	429.5	427.1	425.9	425.9	422.9	421.7	421.1	418.1	416.3
57.5°	377.7	375.8	376.4	375.8	373.4	372.8	370.4	370.4	368.0	365.6	362.6
60°	328.2	328.2	330.0	327.6	325.8	324.6	323.4	322.1	317.9	313.7	310.1
62.5°	284.1	284.7	284.1	282.3	281.1	279.9	278.7	275.1	271.5	269.1	264.8
65°	245.5	244.9	243.1	241.9	238.9	238.9	236.5	234.7	230.5	226.8	222.6
67.5°	205.7	204.5	204.5	204.5	200.9	200.3	199.1	195.5	191.8	187.0	183.4
70°	169.5	170.7	168.9	167.1	165.3	164.7	162.9	159.3	155.0	150.2	147.2
72.5°	135.1	136.3	134.5	133.9	130.3	129.1	128.5	125.5	120.7	117.6	112.8
75°	103.8	104.4	103.2	102.0	99.5	98.9	95.9	93.5	90.5	85.7	81.4
77.5°	74.8	73.6	73.6	71.2	68.8	68.8	68.2	64.6	60.3	56.7	53.1
80°	47.7	47.1	45.2	44.0	42.2	41.6	41.0	38.0	35.0	32.6	30.2
82.5°	24.1	23.5	22.9	22.3	21.1	19.9	20.5	18.1	16.9	14.5	12.7
85°	7.2	7.8	7.8	7.2	6.6	6.6	6.6	6.0	4.8	4.2	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P857889

CATALOG NUMBER: LX4C40D010 EX4C409027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5
2.5°	1601.1	1601.7	1602.3	1602.9	1602.9	1603.5	1604.1	1604.7	1605.3	1605.3	1605.9
5°	1599.9	1601.1	1601.1	1601.7	1601.7	1601.7	1602.3	1602.3	1602.3	1602.3	1602.9
7.5°	1600.5	1600.5	1600.5	1599.9	1599.9	1599.3	1599.3	1599.3	1598.1	1598.1	1598.1
10°	1597.5	1596.9	1596.3	1595.1	1594.5	1593.9	1592.6	1591.4	1590.2	1589.6	1588.4
12.5°	1591.4	1589.0	1586.6	1584.2	1583.0	1582.4	1580.0	1578.2	1576.4	1574.5	1573.3
15°	1579.4	1575.8	1571.5	1566.7	1565.5	1564.3	1560.1	1556.5	1554.0	1552.2	1549.2
17.5°	1555.2	1548.0	1543.2	1535.9	1532.9	1531.7	1525.1	1521.5	1517.2	1516.0	1513.6
20°	1512.4	1505.8	1496.7	1490.1	1486.5	1482.9	1477.4	1472.6	1467.8	1467.8	1464.8
22.5°	1458.7	1450.3	1438.8	1430.4	1429.8	1422.5	1417.7	1412.3	1410.5	1406.8	1406.8
25°	1391.2	1383.9	1371.2	1364.0	1360.4	1358.6	1350.7	1343.5	1339.9	1336.9	1339.3
27.5°	1316.3	1305.5	1295.8	1286.8	1283.8	1280.2	1272.9	1269.9	1263.3	1262.7	1262.1
30°	1230.7	1219.8	1210.2	1205.9	1199.9	1196.9	1191.5	1187.8	1185.4	1185.4	1184.2
32.5°	1140.8	1131.1	1126.3	1117.3	1114.3	1110.0	1106.4	1102.8	1104.0	1102.8	1103.4
35°	1043.7	1041.3	1032.2	1026.8	1026.8	1026.2	1020.1	1017.7	1016.5	1017.1	1020.1
37.5°	951.4	944.1	938.1	934.5	937.5	933.9	933.3	933.3	936.9	934.5	939.3
40°	853.0	852.4	850.0	851.2	851.8	847.6	848.8	849.4	851.8	856.7	857.3
42.5°	767.4	766.8	766.8	766.8	765.6	763.1	765.6	769.8	769.2	772.8	775.8
45°	684.7	683.5	685.9	684.1	687.7	688.9	687.1	688.3	692.0	694.4	699.2
47.5°	609.3	609.3	609.9	611.1	607.5	610.5	611.7	614.1	615.9	617.2	619.6
50°	539.3	539.3	538.1	538.1	538.1	539.9	537.5	540.5	541.1	546.0	549.0
52.5°	474.8	471.8	473.6	472.4	470.0	468.7	470.0	470.6	474.2	475.4	479.0
55°	413.2	413.2	408.4	407.2	409.0	408.4	407.8	407.8	409.6	411.4	414.5
57.5°	358.9	355.3	351.7	351.1	349.3	349.9	349.9	349.3	348.1	348.7	349.3
60°	307.7	305.3	299.8	299.8	299.2	298.6	295.6	295.0	292.0	292.6	290.2
62.5°	260.6	259.4	252.2	249.8	249.8	247.9	244.9	244.3	240.1	240.1	237.7
65°	218.4	214.8	210.5	206.3	206.3	203.9	202.1	196.7	193.7	191.8	188.2
67.5°	179.8	174.3	170.1	166.5	164.1	163.5	159.3	155.6	150.8	147.8	142.4
70°	142.4	138.2	133.9	130.3	127.9	125.5	121.3	115.8	112.2	106.8	103.2
72.5°	107.4	103.8	100.1	95.3	92.3	90.5	86.3	81.4	75.4	71.8	67.0
75°	77.2	73.0	68.2	63.9	62.1	60.3	55.5	51.9	47.7	43.4	38.6
77.5°	50.1	45.2	41.6	36.8	36.2	35.0	30.2	26.5	23.5	21.1	18.1
80°	26.5	24.1	21.1	18.1	16.9	15.1	12.7	10.9	9.0	7.2	6.0
82.5°	11.5	9.7	7.8	6.6	6.0	5.4	4.2	3.6	3.0	3.0	2.4
85°	3.0	2.4	2.4	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	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



TEST NUMBER: P857889

CATALOG NUMBER: LX4C40D010 EX4C409027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5
2.5°	1606.5	1607.1	1607.7	1607.7	1608.3	1608.9	1608.9	1609.5	1610.1	1610.7	1610.7
5°	1603.5	1603.5	1603.5	1604.1	1604.1	1604.1	1604.1	1605.3	1605.3	1605.9	1606.5
7.5°	1597.5	1597.5	1597.5	1597.5	1596.9	1597.5	1596.9	1596.9	1598.1	1598.7	1599.3
10°	1587.8	1587.2	1587.2	1586.6	1586.6	1586.6	1587.2	1587.8	1588.4	1589.0	1590.8
12.5°	1572.7	1572.1	1572.1	1571.5	1571.5	1572.1	1572.7	1573.9	1576.4	1577.6	1580.0
15°	1548.6	1548.0	1548.6	1549.2	1550.4	1552.2	1554.0	1555.8	1559.5	1562.5	1565.5
17.5°	1513.6	1514.2	1514.8	1516.0	1517.8	1520.3	1525.1	1529.9	1534.1	1539.0	1543.8
20°	1465.4	1467.8	1468.4	1472.6	1473.8	1479.2	1484.7	1491.9	1498.5	1504.6	1511.2
22.5°	1407.4	1409.3	1411.7	1416.5	1419.5	1426.7	1433.4	1441.8	1449.1	1456.9	1466.6
25°	1341.7	1342.3	1349.5	1349.5	1356.8	1362.8	1370.6	1379.7	1390.6	1400.8	1407.4
27.5°	1266.9	1269.9	1275.3	1277.7	1283.2	1292.8	1299.5	1310.3	1321.2	1330.2	1337.5
30°	1188.5	1190.9	1199.9	1201.1	1205.3	1213.8	1222.8	1233.1	1241.5	1251.8	1258.4
32.5°	1105.8	1112.4	1117.9	1122.1	1123.3	1136.0	1140.8	1148.0	1157.7	1167.9	1174.6
35°	1025.6	1028.6	1036.4	1038.8	1042.5	1049.7	1059.4	1065.4	1070.2	1076.8	1084.7
37.5°	940.5	949.6	951.4	958.6	959.8	966.4	971.3	978.5	984.5	990.6	991.8
40°	861.5	864.5	871.1	872.9	874.1	883.2	889.2	891.0	894.1	899.5	906.7
42.5°	781.2	784.3	791.5	789.7	795.1	799.3	802.4	809.6	812.6	814.4	814.4
45°	702.2	703.4	708.2	710.7	713.7	716.1	721.5	725.1	726.3	731.8	733.6
47.5°	626.8	628.0	631.6	635.9	634.6	637.7	643.7	645.5	646.1	649.7	651.5
50°	552.6	555.6	560.4	559.2	562.9	564.7	570.1	571.3	571.3	571.9	572.5
52.5°	483.2	485.6	486.8	488.1	489.9	492.9	495.3	494.1	496.5	498.9	497.1
55°	414.5	416.3	419.3	420.5	420.5	421.1	419.9	425.3	422.9	422.3	422.9
57.5°	351.7	349.3	348.7	351.7	352.9	352.3	350.5	352.9	352.9	351.7	349.9
60°	290.8	289.0	288.4	289.0	286.6	284.7	286.0	284.7	281.7	280.5	281.1
62.5°	235.3	233.5	228.6	228.6	227.4	226.8	222.0	222.6	220.2	216.6	217.8
65°	184.0	179.2	176.8	176.2	171.9	168.3	167.1	162.9	159.3	158.7	159.3
67.5°	138.2	132.7	128.5	126.7	124.3	121.3	117.0	113.4	114.6	114.0	116.4
70°	95.9	92.3	88.1	85.1	86.3	82.6	80.2	80.2	80.8	81.4	82.6
72.5°	63.9	59.1	57.3	55.5	54.3	51.9	53.1	53.1	52.5	53.1	51.9
75°	36.2	33.8	32.0	31.4	30.2	30.2	30.2	30.2	29.6	29.0	29.0
77.5°	16.3	15.1	14.5	13.9	13.9	13.9	13.3	12.7	12.7	12.7	12.1
80°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
82.5°	2.4	2.4	3.0	3.0	3.0	2.4	3.0	3.0	2.4	2.4	3.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.6	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



TEST NUMBER: P857889

CATALOG NUMBER: LX4C40D010 EX4C409027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5	1606.5
2.5°	1611.3	1612.0	1612.0	1612.0	1612.6	1612.6	1612.6	1612.6
5°	1607.1	1607.7	1607.7	1607.7	1608.3	1608.3	1608.3	1608.3
7.5°	1599.9	1600.5	1600.5	1601.1	1601.1	1601.7	1601.7	1602.3
10°	1591.4	1592.6	1593.3	1593.9	1594.5	1595.1	1595.1	1595.7
12.5°	1582.4	1583.6	1584.2	1585.4	1586.6	1587.2	1587.8	1588.4
15°	1569.1	1571.5	1572.7	1573.3	1575.8	1577.0	1577.6	1578.2
17.5°	1548.0	1552.8	1554.6	1555.8	1558.3	1560.7	1562.5	1563.1
20°	1517.8	1523.3	1525.7	1528.7	1532.3	1535.3	1536.5	1537.7
22.5°	1475.6	1481.6	1485.3	1488.9	1491.9	1494.9	1499.7	1497.9
25°	1415.3	1425.5	1429.8	1431.6	1438.2	1441.8	1444.2	1441.8
27.5°	1347.7	1353.8	1357.4	1361.6	1366.4	1370.0	1371.2	1374.9
30°	1266.3	1276.5	1275.9	1280.2	1286.2	1289.8	1291.0	1294.0
32.5°	1181.8	1186.6	1190.3	1189.7	1192.1	1198.7	1196.3	1201.7
35°	1091.9	1092.5	1098.6	1098.0	1102.8	1102.8	1102.8	1106.4
37.5°	996.0	1003.2	1000.2	1007.5	1005.1	1006.9	1006.9	1008.1
40°	908.5	910.9	910.9	913.4	915.2	913.4	914.6	917.6
42.5°	818.0	820.5	821.1	819.9	821.7	827.1	822.9	826.5
45°	733.6	735.4	737.8	736.0	739.0	737.2	739.0	737.8
47.5°	654.0	653.3	652.7	657.6	653.3	654.0	656.4	652.1
50°	572.5	576.1	573.7	575.5	576.7	576.7	574.9	574.9
52.5°	500.1	499.5	497.7	499.5	498.3	498.9	500.1	498.9
55°	425.3	427.7	426.5	425.9	426.5	426.5	430.1	425.3
57.5°	351.7	350.5	352.3	356.5	352.3	355.3	357.1	357.7
60°	281.7	281.7	285.3	283.5	287.2	290.2	292.6	291.4
62.5°	214.8	217.8	219.0	219.6	223.2	225.6	225.6	225.0
65°	159.3	163.5	163.5	165.9	167.1	167.1	168.3	170.7
67.5°	117.6	117.6	118.2	119.4	118.8	118.8	120.1	120.7
70°	82.0	80.8	82.6	82.0	82.0	81.4	82.0	82.0
72.5°	51.9	51.9	52.5	51.9	50.7	51.3	51.3	52.5
75°	27.8	29.0	27.8	27.8	28.4	27.1	27.8	28.4
77.5°	11.5	11.5	11.5	11.5	11.5	10.9	10.9	10.9
80°	5.4	5.4	5.4	5.4	5.4	5.4	4.8	4.8
82.5°	2.4	3.0	2.4	3.0	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.6	0.0	0.6	0.0	0.0	0.0	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)