

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: P857992

Luminaire Tested: **LX4C40D010 EX4C409827 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857992
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 EX4C409827 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

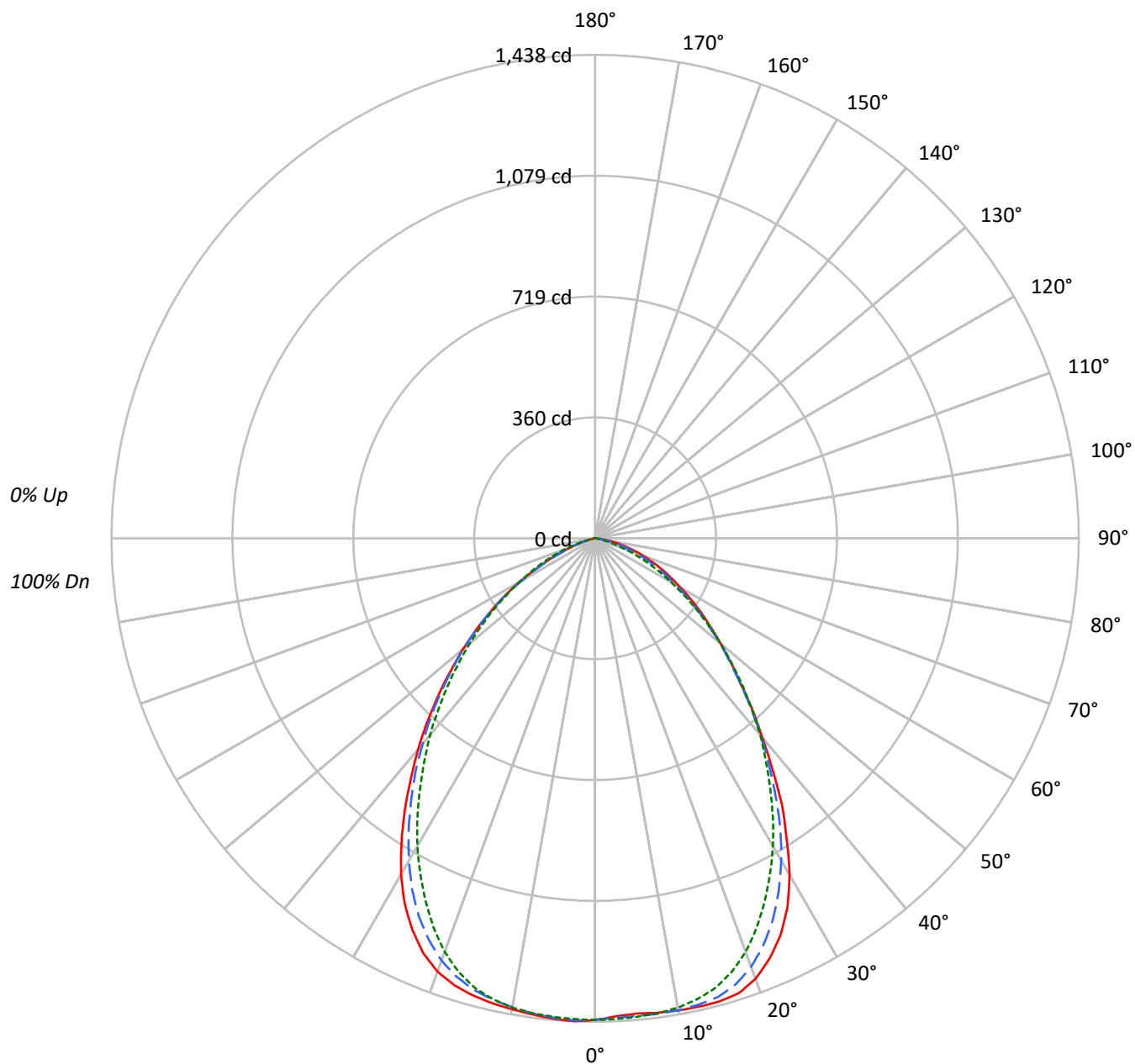
Lumens per Lamp: N/A
Luminaire Lumens: 2746.5 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857992

CATALOG NUMBER: LX4C40D010 EX4C409827 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°	176000	176000	176000
5°	175007	176204	176869
10°	177917	176831	177517
15°	181394	176053	178991
20°	182301	171123	179268
25°	176694	161607	174282
30°	164003	149959	163691
35°	145222	136029	147967
40°	123809	122526	131234
45°	106364	107580	114304
50°	92849	93059	97990
55°	82034	78586	81242
60°	71918	64105	63859
65°	63633	49709	44244
70°	54311	34196	26257
75°	43954	18370	12009
80°	30068	4528	3042
85°	9021	1551	1551



TEST NUMBER: P857992

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	5.0
10°-20°	394.1	14.4
20°-30°	569.5	20.7
30°-40°	588.8	21.4
40°-50°	486.5	17.7
50°-60°	335.7	12.2
60°-70°	175.8	6.4
70°-80°	55.3	2.0
80°-90°	4.7	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°	1099.8	40.0
0°-40°	1688.6	61.5
0°-60°	2510.8	91.4
0°-90°	2746.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1433	1433	1433	1433	1433	
5°	1419	1426	1429	1432	1434	136
15°	1426	1413	1384	1391	1407	402
25°	1304	1251	1192	1240	1286	595
35°	968	936	907	954	987	601
45°	612	610	619	648	658	477
55°	383	371	367	377	379	344
65°	219	198	171	142	152	217
75°	93	73	39	26	25	99
85°	6	3	1	1	1	13
90°	0	0	0	0	0	



TEST NUMBER: P857992

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1423.5	1424.0	1424.0	1425.1	1425.1	1425.1	1425.6	1425.6	1426.2	1426.7	1427.2
5°	1419.1	1419.1	1420.2	1420.8	1421.9	1422.4	1423.5	1424.0	1425.1	1425.6	1426.2
7.5°	1423.5	1423.5	1424.0	1424.6	1424.6	1425.1	1425.1	1425.6	1426.2	1426.7	1426.7
10°	1426.2	1426.2	1426.2	1426.2	1426.7	1426.7	1426.7	1426.2	1426.2	1426.2	1425.6
12.5°	1427.2	1427.2	1426.7	1426.2	1426.7	1426.2	1426.2	1424.6	1423.5	1422.4	1420.8
15°	1426.2	1426.2	1425.6	1425.1	1424.6	1423.5	1423.0	1420.2	1418.0	1414.8	1412.7
17.5°	1419.1	1418.0	1417.0	1415.9	1413.8	1412.2	1411.1	1406.3	1402.4	1397.1	1391.2
20°	1394.4	1393.3	1391.7	1389.1	1386.3	1384.2	1381.0	1374.0	1370.2	1362.1	1356.3
22.5°	1354.0	1353.0	1353.5	1348.7	1343.3	1340.1	1337.9	1332.0	1325.6	1315.3	1308.9
25°	1303.5	1300.2	1300.2	1292.8	1290.1	1287.9	1285.2	1278.2	1268.5	1259.4	1250.8
27.5°	1237.8	1233.5	1231.4	1230.3	1223.9	1219.0	1215.3	1209.9	1201.8	1193.8	1181.9
30°	1156.1	1155.5	1152.8	1148.0	1143.2	1141.0	1136.7	1127.6	1120.0	1114.1	1106.6
32.5°	1059.8	1059.2	1059.2	1059.2	1056.0	1055.5	1049.0	1044.2	1038.3	1029.2	1024.3
35°	968.3	967.8	968.3	960.2	958.1	956.5	955.9	952.7	944.7	940.3	936.1
37.5°	865.1	866.7	865.6	863.5	866.1	861.2	865.1	858.0	854.8	853.8	848.9
40°	772.0	776.3	772.0	772.5	775.2	770.4	770.4	769.3	767.2	766.1	765.0
42.5°	692.3	687.0	690.2	687.5	690.2	688.6	685.9	687.5	688.1	685.9	685.4
45°	612.2	613.3	614.3	612.7	612.7	611.1	615.4	612.7	612.7	613.3	609.5
47.5°	547.1	545.5	546.5	545.5	546.0	544.9	546.0	546.5	545.5	545.5	542.3
50°	485.8	484.8	488.5	485.3	485.3	484.8	485.3	484.1	482.5	482.5	483.6
52.5°	432.5	430.4	429.8	432.5	428.7	428.7	429.3	428.2	426.1	425.0	422.3
55°	383.0	382.5	383.0	380.9	379.8	379.8	377.1	376.0	375.5	372.8	371.2
57.5°	336.8	335.1	335.7	335.1	333.0	332.4	330.3	330.3	328.2	326.0	323.3
60°	292.7	292.7	294.3	292.1	290.5	289.5	288.4	287.2	283.5	279.7	276.5
62.5°	253.3	253.9	253.3	251.7	250.7	249.6	248.5	245.3	242.1	240.0	236.1
65°	218.9	218.4	216.8	215.7	213.0	213.0	210.9	209.3	205.5	202.2	198.5
67.5°	183.4	182.4	182.4	182.4	179.2	178.6	177.5	174.3	171.0	166.8	163.5
70°	151.2	152.2	150.6	149.0	147.4	146.9	145.3	142.1	138.2	133.9	131.3
72.5°	120.5	121.5	119.9	119.4	116.2	115.1	114.6	111.9	107.6	104.9	100.6
75°	92.6	93.1	92.0	91.0	88.7	88.2	85.5	83.4	80.7	76.4	72.6
77.5°	66.7	65.6	65.6	63.5	61.4	61.4	60.8	57.6	53.8	50.6	47.4
80°	42.5	42.0	40.3	39.2	37.6	37.1	36.6	33.9	31.2	29.1	26.9
82.5°	21.5	21.0	20.4	19.9	18.8	17.7	18.3	16.1	15.1	12.9	11.3
85°	6.4	7.0	7.0	6.4	5.9	5.9	5.9	5.4	4.3	3.7	3.2
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: P857992

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1427.8	1428.3	1428.8	1429.4	1429.4	1429.9	1430.4	1431.0	1431.5	1431.5	1432.0
5°	1426.7	1427.8	1427.8	1428.3	1428.3	1428.3	1428.8	1428.8	1428.8	1428.8	1429.4
7.5°	1427.2	1427.2	1427.2	1426.7	1426.7	1426.2	1426.2	1426.2	1425.1	1425.1	1425.1
10°	1424.6	1424.0	1423.5	1422.4	1421.9	1421.3	1420.2	1419.1	1418.0	1417.5	1416.4
12.5°	1419.1	1417.0	1414.8	1412.7	1411.6	1411.1	1409.0	1407.3	1405.7	1404.0	1403.0
15°	1408.4	1405.2	1401.4	1397.1	1396.0	1395.0	1391.2	1388.0	1385.8	1384.2	1381.5
17.5°	1386.8	1380.4	1376.1	1369.6	1367.0	1365.9	1360.0	1356.8	1353.0	1351.9	1349.7
20°	1348.7	1342.8	1334.7	1328.8	1325.6	1322.4	1317.5	1313.2	1308.9	1308.9	1306.2
22.5°	1300.8	1293.3	1283.0	1275.5	1275.0	1268.5	1264.2	1259.4	1257.8	1254.5	1254.5
25°	1240.6	1234.1	1222.8	1216.3	1213.1	1211.5	1204.5	1198.1	1194.8	1192.2	1194.3
27.5°	1173.8	1164.2	1155.5	1147.5	1144.8	1141.6	1135.1	1132.4	1126.5	1126.0	1125.5
30°	1097.5	1087.7	1079.2	1075.4	1070.0	1067.3	1062.5	1059.2	1057.1	1057.1	1056.0
32.5°	1017.3	1008.6	1004.4	996.3	993.7	989.8	986.6	983.4	984.5	983.4	983.9
35°	930.7	928.6	920.5	915.6	915.6	915.1	909.7	907.5	906.5	907.0	909.7
37.5°	848.4	841.9	836.5	833.3	836.0	832.8	832.3	832.3	835.5	833.3	837.6
40°	760.7	760.1	758.0	759.1	759.6	755.8	756.9	757.4	759.6	764.0	764.5
42.5°	684.3	683.8	683.8	683.8	682.7	680.5	682.7	686.5	685.9	689.1	691.8
45°	610.6	609.5	611.6	610.0	613.3	614.3	612.7	613.8	617.1	619.2	623.5
47.5°	543.3	543.3	543.9	544.9	541.7	544.4	545.5	547.6	549.2	550.4	552.5
50°	480.9	480.9	479.8	479.8	479.8	481.5	479.3	482.0	482.5	486.9	489.6
52.5°	423.4	420.7	422.3	421.3	419.1	418.0	419.1	419.7	422.9	423.9	427.1
55°	368.5	368.5	364.2	363.1	364.7	364.2	363.7	363.7	365.3	366.9	369.6
57.5°	320.0	316.8	313.6	313.1	311.5	312.0	312.0	311.5	310.4	311.0	311.5
60°	274.4	272.2	267.3	267.3	266.8	266.3	263.6	263.1	260.4	260.9	258.8
62.5°	232.4	231.3	224.9	222.8	222.8	221.1	218.4	217.9	214.1	214.1	212.0
65°	194.8	191.5	187.7	184.0	184.0	181.8	180.2	175.4	172.7	171.0	167.8
67.5°	160.3	155.4	151.7	148.5	146.3	145.8	142.1	138.8	134.5	131.8	127.0
70°	127.0	123.2	119.4	116.2	114.1	111.9	108.2	103.3	100.1	95.2	92.0
72.5°	95.8	92.6	89.3	85.0	82.3	80.7	77.0	72.6	67.2	64.0	59.7
75°	68.8	65.1	60.8	57.0	55.4	53.8	49.5	46.3	42.5	38.7	34.4
77.5°	44.7	40.3	37.1	32.8	32.3	31.2	26.9	23.6	21.0	18.8	16.1
80°	23.6	21.5	18.8	16.1	15.1	13.5	11.3	9.7	8.0	6.4	5.4
82.5°	10.3	8.6	7.0	5.9	5.4	4.8	3.7	3.2	2.7	2.7	2.1
85°	2.7	2.1	2.1	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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: P857992

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1432.6	1433.1	1433.7	1433.7	1434.2	1434.7	1434.7	1435.3	1435.8	1436.3	1436.3
5°	1429.9	1429.9	1429.9	1430.4	1430.4	1430.4	1430.4	1431.5	1431.5	1432.0	1432.6
7.5°	1424.6	1424.6	1424.6	1424.6	1424.0	1424.6	1424.0	1424.0	1425.1	1425.6	1426.2
10°	1415.9	1415.4	1415.4	1414.8	1414.8	1414.8	1415.4	1415.9	1416.4	1417.0	1418.6
12.5°	1402.4	1401.9	1401.9	1401.4	1401.4	1401.9	1402.4	1403.5	1405.7	1406.8	1409.0
15°	1381.0	1380.4	1381.0	1381.5	1382.6	1384.2	1385.8	1387.4	1390.7	1393.3	1396.0
17.5°	1349.7	1350.3	1350.8	1351.9	1353.5	1355.7	1360.0	1364.3	1368.0	1372.4	1376.7
20°	1306.8	1308.9	1309.4	1313.2	1314.2	1319.1	1324.0	1330.4	1336.3	1341.7	1347.6
22.5°	1255.0	1256.7	1258.9	1263.2	1265.8	1272.2	1278.2	1285.7	1292.2	1299.2	1307.8
25°	1196.5	1197.0	1203.4	1203.4	1209.9	1215.3	1222.2	1230.3	1240.1	1249.2	1255.0
27.5°	1129.7	1132.4	1137.2	1139.4	1144.3	1152.8	1158.8	1168.4	1178.2	1186.2	1192.7
30°	1059.8	1062.0	1070.0	1071.1	1074.8	1082.4	1090.4	1099.6	1107.1	1116.3	1122.2
32.5°	986.1	992.0	996.9	1000.6	1001.7	1013.0	1017.3	1023.7	1032.4	1041.5	1047.4
35°	914.6	917.2	924.2	926.3	929.6	936.1	944.7	950.1	954.3	960.2	967.3
37.5°	838.7	846.8	848.4	854.8	855.9	861.8	866.1	872.6	877.9	883.4	884.4
40°	768.2	770.9	776.8	778.4	779.5	787.6	792.9	794.5	797.3	802.1	808.5
42.5°	696.6	699.4	705.8	704.2	709.0	712.8	715.5	722.0	724.6	726.2	726.2
45°	626.2	627.3	631.5	633.8	636.4	638.6	643.4	646.6	647.7	652.6	654.2
47.5°	558.9	560.0	563.2	567.1	565.9	568.7	574.0	575.6	576.2	579.4	581.0
50°	492.8	495.5	499.7	498.7	502.0	503.6	508.4	509.5	509.5	510.0	510.5
52.5°	430.9	433.0	434.1	435.3	436.9	439.5	441.7	440.6	442.7	444.9	443.3
55°	369.6	371.2	373.9	375.0	375.0	375.5	374.4	379.3	377.1	376.6	377.1
57.5°	313.6	311.5	311.0	313.6	314.7	314.2	312.6	314.7	314.7	313.6	312.0
60°	259.3	257.7	257.2	257.7	255.6	253.9	255.0	253.9	251.2	250.1	250.7
62.5°	209.8	208.2	203.9	203.9	202.8	202.2	198.0	198.5	196.4	193.2	194.2
65°	164.1	159.8	157.7	157.1	153.3	150.1	149.0	145.3	142.1	141.5	142.1
67.5°	123.2	118.3	114.6	113.0	110.8	108.2	104.3	101.1	102.2	101.7	103.8
70°	85.5	82.3	78.6	75.9	77.0	73.7	71.5	71.5	72.1	72.6	73.7
72.5°	57.0	52.7	51.1	49.5	48.4	46.3	47.4	47.4	46.8	47.4	46.3
75°	32.3	30.1	28.5	28.0	26.9	26.9	26.9	26.9	26.4	25.9	25.9
77.5°	14.5	13.5	12.9	12.4	12.4	12.4	11.9	11.3	11.3	11.3	10.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	2.1	2.1	2.7	2.7	2.7	2.1	2.7	2.7	2.1	2.1	2.7
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857992

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1436.9	1437.5	1437.5	1437.5	1438.0	1438.0	1438.0	1438.0
5°	1433.1	1433.7	1433.7	1433.7	1434.2	1434.2	1434.2	1434.2
7.5°	1426.7	1427.2	1427.2	1427.8	1427.8	1428.3	1428.3	1428.8
10°	1419.1	1420.2	1420.8	1421.3	1421.9	1422.4	1422.4	1423.0
12.5°	1411.1	1412.2	1412.7	1413.8	1414.8	1415.4	1415.9	1416.4
15°	1399.2	1401.4	1402.4	1403.0	1405.2	1406.3	1406.8	1407.3
17.5°	1380.4	1384.7	1386.3	1387.4	1389.6	1391.7	1393.3	1393.9
20°	1353.5	1358.4	1360.5	1363.2	1366.4	1369.1	1370.2	1371.2
22.5°	1315.9	1321.2	1324.5	1327.7	1330.4	1333.1	1337.3	1335.7
25°	1262.1	1271.2	1275.0	1276.6	1282.5	1285.7	1287.9	1285.7
27.5°	1201.8	1207.2	1210.5	1214.2	1218.5	1221.7	1222.8	1226.1
30°	1129.2	1138.3	1137.8	1141.6	1147.0	1150.2	1151.2	1153.9
32.5°	1053.9	1058.1	1061.4	1060.9	1063.0	1068.9	1066.8	1071.6
35°	973.7	974.2	979.7	979.1	983.4	983.4	983.4	986.6
37.5°	888.2	894.6	891.9	898.4	896.3	897.9	897.9	899.0
40°	810.1	812.3	812.3	814.5	816.1	814.5	815.6	818.3
42.5°	729.4	731.7	732.2	731.1	732.7	737.6	733.8	737.0
45°	654.2	655.8	657.9	656.3	659.0	657.4	659.0	657.9
47.5°	583.2	582.6	582.0	586.4	582.6	583.2	585.3	581.5
50°	510.5	513.7	511.6	513.2	514.3	514.3	512.7	512.7
52.5°	446.0	445.4	443.8	445.4	444.4	444.9	446.0	444.9
55°	379.3	381.4	380.3	379.8	380.3	380.3	383.5	379.3
57.5°	313.6	312.6	314.2	317.9	314.2	316.8	318.4	319.0
60°	251.2	251.2	254.4	252.8	256.1	258.8	260.9	259.9
62.5°	191.5	194.2	195.3	195.8	199.0	201.2	201.2	200.6
65°	142.1	145.8	145.8	147.9	149.0	149.0	150.1	152.2
67.5°	104.9	104.9	105.4	106.5	105.9	105.9	107.1	107.6
70°	73.1	72.1	73.7	73.1	73.1	72.6	73.1	73.1
72.5°	46.3	46.3	46.8	46.3	45.2	45.7	45.7	46.8
75°	24.8	25.9	24.8	24.8	25.3	24.2	24.8	25.3
77.5°	10.3	10.3	10.3	10.3	10.3	9.7	9.7	9.7
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.3	4.3
82.5°	2.1	2.7	2.1	2.7	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	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)