

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: P858032

Luminaire Tested: **LX4C40D010 EX4C409840 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

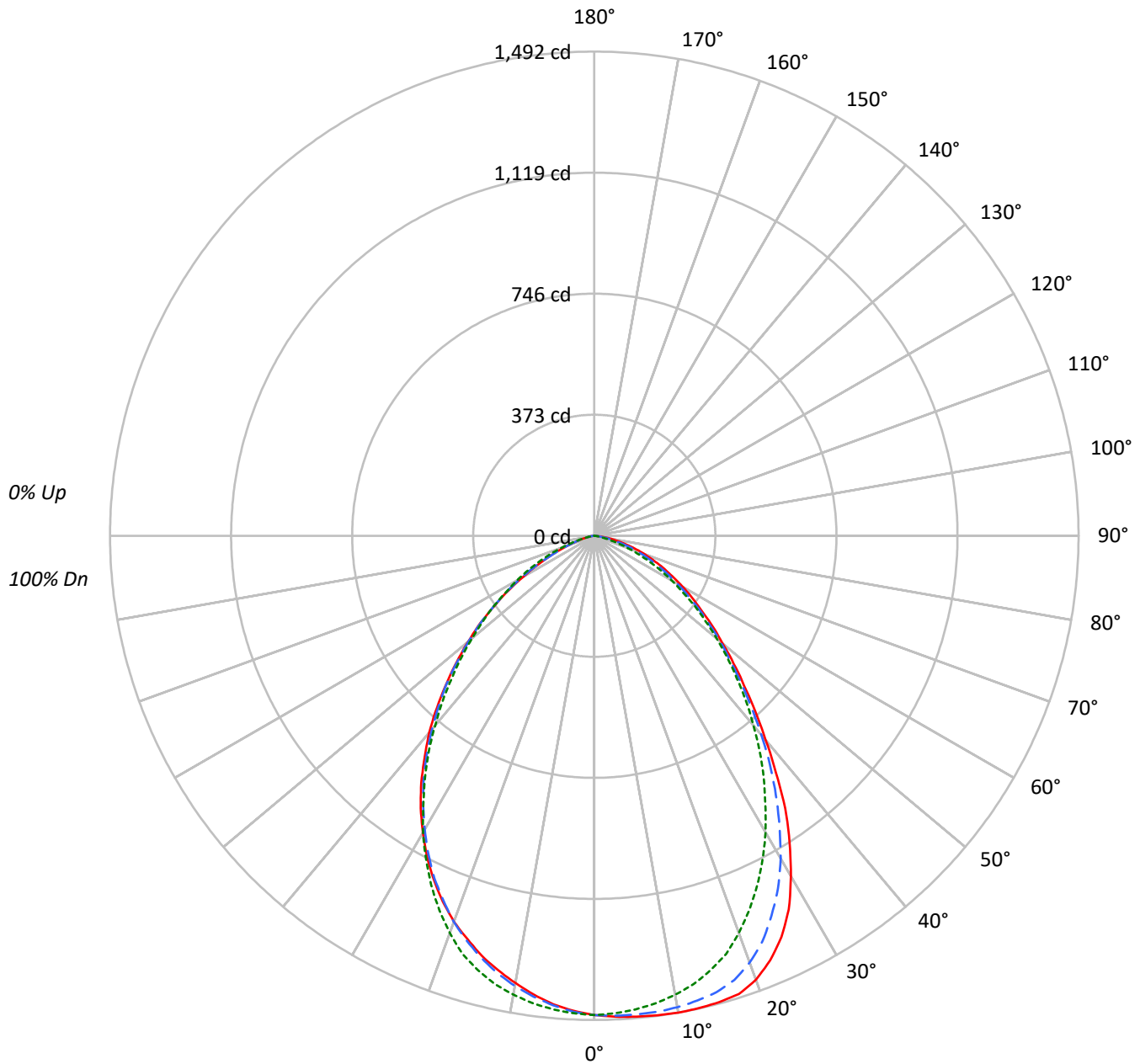
Lumens per Lamp: N/A
Luminaire Lumens: 2783.1 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		49	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	181430	181430	181430
5°	183455	180656	178695
10°	186150	179127	174598
15°	189204	176269	170418
20°	190394	170273	165370
25°	184950	161065	158612
30°	171862	149718	149789
35°	153846	136464	139373
40°	131715	122333	126792
45°	113401	107858	111907
50°	98583	93900	96729
55°	86725	80770	80042
60°	77177	67397	62090
65°	67703	53982	44913
70°	58154	38147	30388
75°	47182	22072	17800
80°	33747	9622	8844
85°	12827	4088	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	5.0
10°-20°	394.0	14.2
20°-30°	562.6	20.2
30°-40°	588.5	21.1
40°-50°	493.1	17.7
50°-60°	345.1	12.4
60°-70°	187.9	6.8
70°-80°	65.2	2.3
80°-90°	7.5	0.3
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°	1095.7	39.4
0°-40°	1684.3	60.5
0°-60°	2522.5	90.6
0°-90°	2783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2783.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1477	1477	1477	1477	1477	
5°	1488	1481	1465	1452	1449	142
15°	1488	1456	1386	1346	1340	420
25°	1364	1292	1188	1165	1170	623
35°	1026	975	910	917	929	636
45°	653	638	621	641	644	507
55°	405	391	377	377	374	366
65°	233	212	186	156	154	232
75°	99	81	46	38	38	107
85°	9	5	3	3	3	16
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°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1483.6	1481.9	1482.4	1482.4	1482.4	1481.9	1482.4	1481.9	1481.9	1481.4	1480.2
5°	1487.6	1486.4	1486.4	1486.4	1485.9	1485.3	1485.3	1484.8	1483.6	1483.1	1480.7
7.5°	1490.5	1489.3	1489.3	1488.8	1488.1	1487.6	1487.0	1485.3	1483.6	1482.4	1479.7
10°	1492.2	1490.5	1490.5	1489.3	1488.1	1487.6	1486.4	1484.2	1481.9	1479.0	1475.1
12.5°	1491.0	1489.3	1488.8	1487.6	1485.3	1484.2	1483.1	1480.2	1476.2	1472.3	1467.2
15°	1487.6	1486.4	1485.3	1483.6	1480.7	1479.0	1478.0	1473.4	1468.3	1462.6	1456.3
17.5°	1480.7	1479.0	1476.8	1474.5	1470.6	1468.9	1466.0	1460.3	1452.9	1445.0	1435.3
20°	1456.3	1455.2	1452.9	1449.0	1442.7	1440.4	1436.5	1429.1	1419.4	1409.8	1399.6
22.5°	1416.0	1414.3	1410.9	1407.5	1401.8	1397.8	1394.4	1384.3	1373.5	1363.2	1353.6
25°	1364.4	1362.7	1358.1	1353.6	1347.9	1341.0	1337.6	1329.7	1318.9	1305.9	1291.6
27.5°	1297.8	1292.2	1290.5	1285.4	1276.9	1274.6	1269.5	1259.2	1249.1	1237.6	1225.7
30°	1211.5	1211.5	1208.1	1205.9	1197.9	1195.6	1189.9	1179.2	1173.4	1157.6	1148.5
32.5°	1120.1	1119.0	1116.1	1114.4	1109.9	1105.8	1100.2	1094.5	1082.0	1074.1	1061.6
35°	1025.8	1019.0	1020.2	1016.7	1013.9	1009.4	1008.7	1002.5	991.2	986.6	975.2
37.5°	918.5	915.6	919.6	914.5	911.6	912.2	907.7	903.7	899.1	891.2	888.9
40°	821.3	823.6	823.0	818.4	820.8	817.9	813.4	809.4	807.1	802.0	800.3
42.5°	734.4	731.0	729.9	729.9	730.4	730.4	728.2	725.3	725.3	720.3	715.1
45°	652.7	652.7	651.5	654.9	649.8	649.8	648.1	647.5	645.3	644.1	637.9
47.5°	582.2	581.6	581.1	580.5	579.9	579.9	576.5	573.7	573.1	569.7	566.3
50°	515.8	519.2	518.0	515.2	514.0	514.6	512.3	510.6	510.1	504.4	505.0
52.5°	460.0	459.5	460.7	459.0	456.1	456.7	454.4	452.1	449.9	447.0	444.7
55°	404.9	407.8	406.7	404.9	404.4	403.2	401.6	398.7	398.2	391.9	391.4
57.5°	359.0	358.4	357.2	354.5	353.8	352.1	352.1	349.9	346.4	343.1	340.2
60°	314.1	314.1	312.4	311.8	309.5	309.0	308.5	306.1	302.2	299.4	294.8
62.5°	270.9	272.1	270.9	269.2	267.5	265.3	264.1	262.4	259.1	256.2	252.2
65°	232.9	232.3	231.8	229.4	228.9	226.6	226.1	222.7	219.3	217.0	212.4
67.5°	196.5	194.8	194.8	193.7	192.5	190.8	189.7	186.3	182.4	180.0	175.5
70°	161.9	160.8	160.8	160.8	157.9	156.2	155.6	153.9	148.2	146.0	141.4
72.5°	130.1	129.5	128.9	127.3	125.6	125.6	123.2	119.9	117.0	114.1	110.8
75°	99.4	100.5	99.4	97.1	96.6	95.4	93.7	90.9	88.0	84.6	80.6
77.5°	72.7	71.6	70.4	70.4	69.3	67.1	66.4	64.2	60.8	58.5	54.5
80°	47.7	47.2	46.0	44.9	44.3	43.7	43.2	40.9	37.5	35.8	32.4
82.5°	26.1	25.6	25.6	25.0	23.3	23.3	22.7	20.4	18.7	17.6	15.9
85°	9.1	9.1	9.1	8.6	8.6	8.6	7.9	7.4	6.8	6.2	5.1
87.5°	1.2	0.5	1.2	0.5	1.2	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°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1479.0	1478.0	1477.3	1476.8	1476.2	1475.7	1475.1	1474.0	1473.4	1472.8	1471.6
5°	1479.0	1476.8	1475.7	1474.0	1472.8	1471.6	1469.9	1468.3	1466.6	1464.9	1463.2
7.5°	1476.8	1473.4	1471.1	1467.7	1466.6	1464.9	1461.5	1459.2	1456.3	1452.9	1449.0
10°	1471.1	1467.2	1462.6	1458.1	1456.3	1453.5	1449.0	1445.0	1440.4	1435.9	1432.0
12.5°	1462.0	1455.8	1450.1	1443.8	1440.4	1437.6	1431.3	1425.7	1420.0	1414.9	1408.1
15°	1448.4	1441.1	1433.7	1425.1	1421.2	1417.7	1408.6	1401.8	1392.7	1385.9	1379.1
17.5°	1426.3	1414.9	1405.8	1395.0	1389.3	1385.3	1377.4	1366.6	1358.1	1350.7	1342.8
20°	1388.2	1377.4	1364.9	1353.0	1346.7	1341.6	1330.2	1318.9	1310.4	1302.4	1293.9
22.5°	1338.2	1324.6	1315.5	1300.7	1295.6	1289.4	1275.7	1265.5	1255.8	1247.9	1240.0
25°	1277.4	1265.5	1253.0	1239.3	1233.1	1225.7	1214.4	1203.6	1197.3	1188.2	1178.6
27.5°	1207.6	1197.9	1182.5	1170.7	1164.4	1158.7	1147.9	1138.3	1129.2	1123.0	1113.9
30°	1133.8	1122.3	1108.7	1096.2	1092.8	1086.1	1076.3	1068.9	1059.3	1055.4	1051.4
32.5°	1052.5	1039.4	1029.2	1021.2	1014.4	1008.7	1003.7	991.7	990.0	979.8	978.7
35°	963.9	958.2	948.5	941.8	936.1	932.0	923.6	917.9	911.6	909.9	905.9
37.5°	880.4	873.6	864.5	858.2	854.3	853.7	847.4	844.0	839.5	837.3	832.7
40°	792.9	790.1	782.1	781.0	774.7	774.2	770.7	766.8	762.8	762.8	763.4
42.5°	712.2	708.8	705.5	701.4	698.1	698.1	696.4	695.2	694.1	692.3	695.2
45°	636.7	632.2	629.9	625.9	627.6	624.2	623.1	623.1	621.4	620.8	624.8
47.5°	566.3	561.2	558.9	557.8	557.8	558.3	553.2	554.9	554.4	555.5	557.2
50°	502.1	497.6	494.1	494.1	494.7	492.4	490.2	491.9	490.2	491.3	495.3
52.5°	442.5	437.9	436.2	436.2	432.9	432.2	433.4	431.1	431.7	432.2	434.5
55°	387.4	384.5	381.7	378.8	379.4	378.3	376.0	375.4	376.6	377.1	380.0
57.5°	338.0	334.0	330.0	328.9	327.7	327.7	324.9	324.3	325.5	322.6	322.6
60°	290.8	288.6	283.4	281.7	281.7	278.8	276.6	277.8	274.9	274.3	274.9
62.5°	247.1	245.4	241.9	238.5	237.4	236.3	233.5	232.3	231.1	228.9	225.5
65°	209.0	205.0	201.1	198.8	197.1	194.2	192.5	190.3	186.9	185.7	182.4
67.5°	170.9	167.0	163.0	161.3	159.6	157.9	155.1	152.2	148.2	143.7	139.7
70°	137.4	132.3	130.1	125.6	124.4	122.1	118.2	115.3	111.3	106.2	102.3
72.5°	105.0	101.7	98.3	94.3	91.4	89.7	86.3	81.8	77.2	74.4	70.4
75°	75.5	73.8	69.3	64.7	63.6	61.4	57.3	54.5	51.1	46.5	43.2
77.5°	51.1	47.7	44.9	40.9	39.8	37.5	35.2	32.4	30.1	27.3	25.0
80°	30.1	27.3	25.6	22.7	21.6	20.4	18.7	16.5	14.8	13.6	13.0
82.5°	14.8	12.5	11.9	10.3	9.6	9.1	7.9	7.4	6.2	6.2	6.2
85°	5.1	4.0	4.0	3.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.2	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°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1471.1	1470.6	1469.9	1469.4	1469.4	1468.9	1468.9	1468.3	1468.3	1467.7	1467.7
5°	1460.9	1459.2	1458.1	1456.9	1456.9	1455.2	1454.1	1452.9	1452.4	1452.4	1451.2
7.5°	1446.7	1444.4	1442.1	1440.4	1439.9	1437.0	1434.7	1434.7	1432.5	1431.3	1430.2
10°	1427.9	1423.9	1420.5	1418.9	1416.6	1414.9	1412.1	1410.4	1408.6	1405.8	1405.2
12.5°	1402.4	1399.6	1394.4	1392.2	1391.0	1387.6	1383.1	1380.8	1380.2	1377.9	1376.2
15°	1373.5	1367.1	1362.7	1359.8	1359.8	1354.1	1351.8	1348.4	1346.2	1344.5	1343.9
17.5°	1335.9	1329.7	1325.1	1321.2	1320.0	1315.5	1312.1	1310.9	1308.1	1309.3	1306.4
20°	1287.7	1282.5	1279.1	1274.0	1274.0	1271.2	1270.0	1267.2	1266.1	1264.9	1266.1
22.5°	1236.0	1229.7	1224.0	1223.5	1223.5	1219.5	1218.9	1218.4	1216.1	1217.8	1217.2
25°	1175.2	1170.7	1167.2	1166.7	1166.7	1164.4	1162.1	1163.3	1165.0	1164.4	1166.1
27.5°	1112.2	1107.6	1106.5	1105.8	1104.8	1104.2	1105.3	1105.3	1107.0	1109.3	1111.6
30°	1044.0	1042.8	1041.1	1040.6	1039.4	1042.3	1043.4	1045.1	1044.6	1048.0	1050.2
32.5°	975.8	973.5	973.0	974.1	975.8	975.2	978.7	979.8	980.9	984.9	986.6
35°	907.1	906.5	905.4	905.4	905.9	910.5	910.5	914.5	916.7	917.9	922.4
37.5°	833.2	835.6	836.6	838.3	839.0	840.6	841.8	845.7	848.0	850.3	852.6
40°	765.6	764.5	769.7	766.3	767.3	772.5	774.7	774.2	777.6	781.0	783.3
42.5°	693.5	695.2	696.4	697.5	700.4	700.9	703.8	707.7	708.8	712.9	714.0
45°	623.7	624.2	626.5	628.8	630.5	635.0	636.2	637.9	641.3	641.3	642.9
47.5°	557.8	560.0	560.0	563.5	566.3	565.7	569.7	570.8	570.3	573.1	574.3
50°	494.7	498.1	497.6	499.8	501.0	501.5	505.0	506.1	503.8	506.7	507.2
52.5°	434.5	436.2	438.5	439.1	437.9	440.8	439.6	441.9	441.3	443.6	441.3
55°	379.4	378.8	378.8	380.0	378.8	380.0	381.1	378.8	377.1	379.4	378.8
57.5°	324.3	324.3	323.2	324.9	323.2	321.5	320.9	319.2	317.5	317.5	316.9
60°	272.6	271.5	269.2	268.7	268.7	265.8	264.7	262.4	262.4	260.1	257.9
62.5°	224.4	221.5	219.8	219.8	218.7	215.8	210.7	207.3	206.2	202.8	202.2
65°	178.9	176.1	174.3	170.9	168.1	167.0	161.9	157.9	156.2	152.8	153.4
67.5°	137.4	132.9	127.8	125.6	123.9	119.9	118.2	115.3	113.6	113.6	113.6
70°	98.8	94.9	89.7	88.0	86.9	83.5	81.8	81.2	82.9	82.4	82.9
72.5°	66.4	62.5	60.2	59.0	58.0	56.3	57.3	58.0	56.8	57.3	58.0
75°	40.3	39.1	37.5	36.9	36.9	37.5	36.9	36.9	37.5	37.5	38.1
77.5°	23.3	22.1	22.1	21.6	22.7	22.1	22.1	22.1	22.7	22.7	22.7
80°	12.5	12.5	12.5	12.5	13.0	12.5	13.0	13.0	13.0	13.0	13.0
82.5°	6.2	6.2	6.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.2
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.5	1.2	1.2	1.2	1.2	1.2	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: P858032

CATALOG NUMBER: LX4C40D010 EX4C409840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1466.6	1466.6	1466.6	1465.4	1466.0	1466.0	1465.4	1465.4
5°	1450.7	1450.1	1449.0	1449.0	1447.8	1449.0	1448.4	1449.0
7.5°	1429.1	1429.1	1427.4	1427.4	1426.8	1426.3	1425.7	1426.3
10°	1403.5	1403.5	1402.4	1401.8	1402.4	1400.1	1400.1	1399.6
12.5°	1375.2	1374.0	1372.8	1373.5	1372.8	1371.1	1370.6	1371.1
15°	1342.2	1340.5	1341.0	1339.3	1339.3	1338.8	1339.9	1339.9
17.5°	1305.9	1304.7	1303.5	1304.1	1303.0	1303.5	1303.0	1302.4
20°	1265.5	1264.9	1264.9	1262.6	1263.2	1262.6	1263.2	1264.9
22.5°	1218.9	1218.4	1218.9	1217.2	1218.4	1218.4	1220.1	1220.1
25°	1167.8	1167.2	1168.4	1168.9	1169.5	1171.2	1169.5	1170.1
27.5°	1111.0	1112.7	1114.4	1114.9	1117.3	1115.6	1114.4	1116.1
30°	1053.6	1053.6	1053.1	1055.4	1057.1	1058.8	1055.9	1055.9
32.5°	987.8	990.5	990.5	991.2	992.9	992.9	992.9	995.1
35°	924.7	926.4	927.0	924.7	925.8	925.3	929.3	929.3
37.5°	854.3	854.3	854.8	858.8	858.8	857.1	858.2	858.2
40°	787.2	787.9	785.5	786.7	789.5	788.4	789.5	790.6
42.5°	714.0	717.9	715.7	716.8	716.2	716.8	717.4	717.4
45°	644.1	645.3	645.3	645.8	647.0	648.1	644.6	644.1
47.5°	576.0	576.5	578.2	575.4	578.8	575.4	578.8	574.8
50°	507.2	509.5	507.8	508.9	507.2	507.2	506.7	506.1
52.5°	441.9	441.3	441.3	440.8	440.8	441.9	440.8	442.5
55°	376.6	377.1	376.0	375.4	374.9	376.6	374.9	373.7
57.5°	314.7	315.8	313.5	314.7	310.7	312.4	313.0	313.5
60°	257.3	255.6	255.6	253.3	253.3	255.0	252.7	252.7
62.5°	199.4	200.5	198.8	201.1	201.1	203.3	202.2	203.3
65°	152.8	153.4	153.9	153.9	153.9	157.3	156.2	154.5
67.5°	115.3	115.8	116.5	115.8	117.5	116.5	116.5	117.0
70°	83.5	84.1	84.6	84.6	84.1	84.6	84.6	84.6
72.5°	58.0	58.5	58.0	58.5	59.0	58.5	58.5	59.0
75°	38.1	38.1	37.5	37.5	37.5	37.5	38.1	37.5
77.5°	22.1	22.7	22.1	22.7	22.7	22.7	22.7	22.7
80°	13.0	13.0	13.0	12.5	13.0	13.0	13.0	12.5
82.5°	6.8	6.8	6.2	6.2	6.8	6.8	6.8	6.8
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)