

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: P857756

Luminaire Tested: **LX4C35D010 EX4C359035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857756
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: LX4C35D010 EX4C359035 4LBLWWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

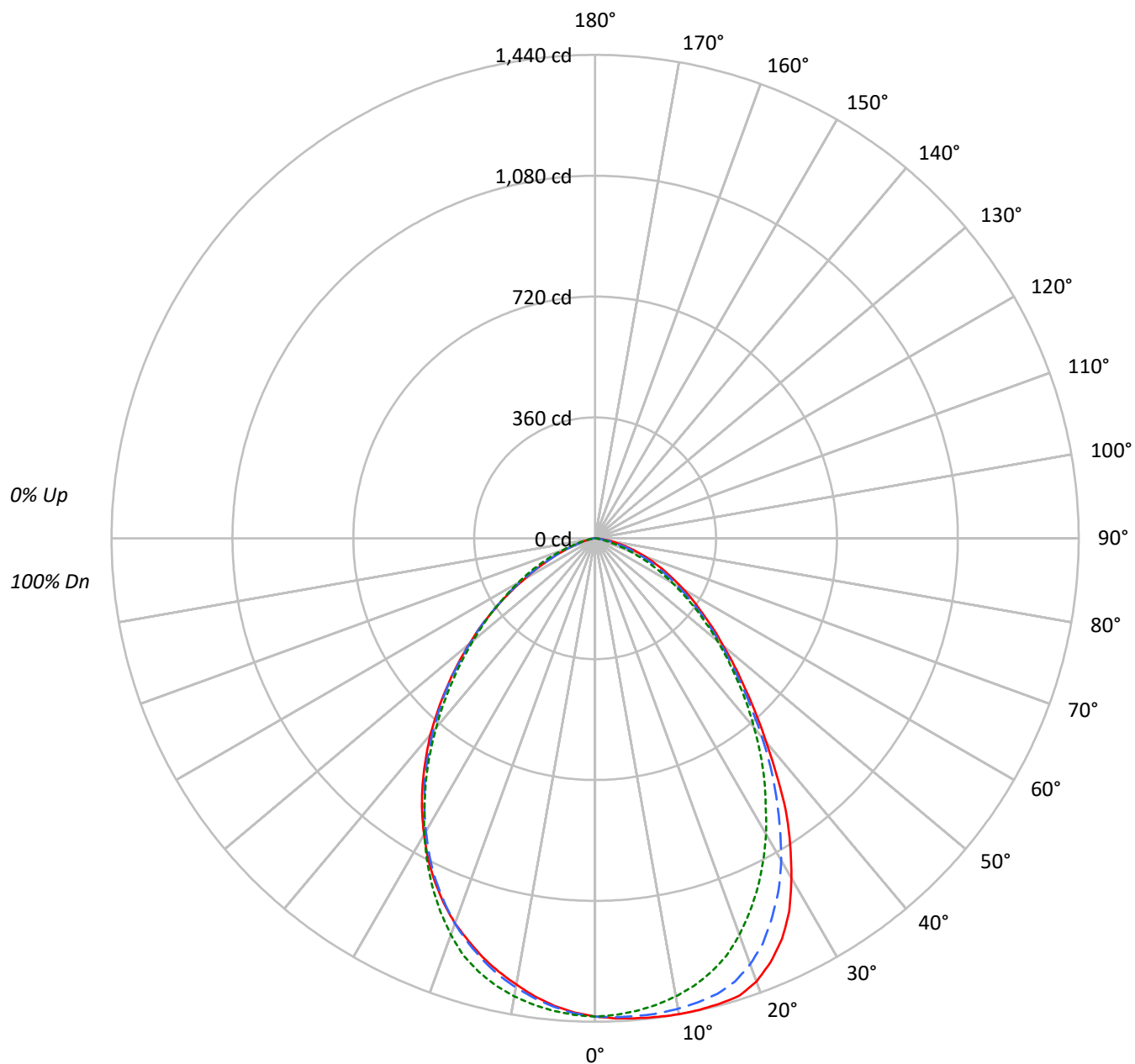
Lumens per Lamp: N/A
Luminaire Lumens: 2685.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	175029	175029	175029
5°	176980	174280	172393
10°	179576	172814	168436
15°	182526	170062	164415
20°	183687	164272	159540
25°	178416	155399	153013
30°	165805	144427	144512
35°	148417	131664	134454
40°	127080	118019	122333
45°	109387	104054	107963
50°	95104	90594	93308
55°	83683	77943	77236
60°	74449	65039	59903
65°	65319	52093	43314
70°	56107	36818	29311
75°	45521	21313	17183
80°	32544	9339	8561
85°	12404	3806	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	5.0
10°-20°	380.1	14.2
20°-30°	542.7	20.2
30°-40°	567.8	21.1
40°-50°	475.7	17.7
50°-60°	332.9	12.4
60°-70°	181.3	6.8
70°-80°	62.9	2.3
80°-90°	7.2	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°	1057.1	39.4
0°-40°	1624.9	60.5
0°-60°	2433.5	90.6
0°-90°	2685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1425	1425	1425	1425	1425	
5°	1435	1429	1413	1401	1398	137
15°	1435	1405	1337	1299	1293	405
25°	1316	1246	1146	1124	1129	601
35°	990	941	878	884	896	614
45°	630	615	599	619	621	490
55°	391	378	364	364	361	353
65°	225	205	179	151	149	224
75°	96	78	45	36	36	103
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°	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7
2.5°	1431.3	1429.7	1430.2	1430.2	1430.2	1429.7	1430.2	1429.7	1429.7	1429.1	1428.0
5°	1435.1	1434.0	1434.0	1434.0	1433.5	1432.9	1432.9	1432.4	1431.3	1430.8	1428.6
7.5°	1437.9	1436.8	1436.8	1436.2	1435.7	1435.1	1434.6	1432.9	1431.3	1430.2	1427.5
10°	1439.5	1437.9	1437.9	1436.8	1435.7	1435.1	1434.0	1431.9	1429.7	1426.9	1423.1
12.5°	1438.4	1436.8	1436.2	1435.1	1432.9	1431.9	1430.8	1428.0	1424.2	1420.3	1415.4
15°	1435.1	1434.0	1432.9	1431.3	1428.6	1426.9	1425.8	1421.4	1416.5	1411.0	1405.0
17.5°	1428.6	1426.9	1424.7	1422.5	1418.7	1417.1	1414.3	1408.8	1401.7	1394.0	1384.7
20°	1405.0	1403.9	1401.7	1397.9	1391.8	1389.7	1385.8	1378.7	1369.4	1360.1	1350.2
22.5°	1366.1	1364.4	1361.2	1357.9	1352.4	1348.6	1345.3	1335.4	1325.0	1315.1	1305.8
25°	1316.2	1314.6	1310.2	1305.8	1300.3	1293.8	1290.5	1282.8	1272.4	1259.8	1246.1
27.5°	1252.1	1246.6	1245.0	1240.1	1231.8	1229.6	1224.7	1214.9	1205.0	1194.0	1182.5
30°	1168.8	1168.8	1165.5	1163.3	1155.7	1153.5	1148.0	1137.6	1132.1	1116.8	1108.0
32.5°	1080.6	1079.5	1076.8	1075.1	1070.7	1066.9	1061.4	1055.9	1043.9	1036.2	1024.2
35°	989.6	983.1	984.2	980.9	978.1	973.7	973.2	967.2	956.2	951.8	940.9
37.5°	886.1	883.3	887.2	882.2	879.5	880.0	875.7	871.8	867.4	859.8	857.6
40°	792.4	794.6	794.0	789.6	791.8	789.1	784.7	780.9	778.7	773.7	772.1
42.5°	708.5	705.2	704.1	704.1	704.7	704.7	702.5	699.8	699.8	694.8	689.9
45°	629.6	629.6	628.5	631.8	626.9	626.9	625.2	624.7	622.5	621.4	615.4
47.5°	561.7	561.1	560.6	560.0	559.5	559.5	556.2	553.5	552.9	549.6	546.3
50°	497.6	500.8	499.8	497.0	495.9	496.5	494.3	492.6	492.1	486.6	487.1
52.5°	443.9	443.3	444.4	442.8	440.0	440.6	438.4	436.2	434.0	431.3	429.1
55°	390.7	393.4	392.3	390.7	390.2	389.1	387.4	384.7	384.1	378.1	377.6
57.5°	346.3	345.8	344.7	341.9	341.4	339.7	339.7	337.6	334.3	331.0	328.2
60°	303.0	303.0	301.4	300.8	298.6	298.1	297.5	295.4	291.5	288.8	284.4
62.5°	261.4	262.5	261.4	259.7	258.1	255.9	254.8	253.2	249.9	247.1	243.3
65°	224.7	224.1	223.6	221.4	220.8	218.6	218.1	214.8	211.5	209.3	204.9
67.5°	189.6	188.0	188.0	186.9	185.8	184.1	183.0	179.7	175.9	173.7	169.3
70°	156.2	155.1	155.1	155.1	152.3	150.7	150.1	148.5	143.0	140.8	136.4
72.5°	125.5	124.9	124.4	122.7	121.1	121.1	118.9	115.6	112.9	110.1	106.9
75°	95.9	97.0	95.9	93.7	93.2	92.1	90.4	87.7	84.9	81.6	77.8
77.5°	70.1	69.0	67.9	67.9	66.9	64.7	64.1	61.9	58.6	56.4	52.6
80°	46.0	45.5	44.4	43.3	42.7	42.2	41.6	39.5	36.2	34.5	31.2
82.5°	25.2	24.7	24.7	24.1	22.5	22.5	21.9	19.7	18.1	17.0	15.3
85°	8.8	8.8	8.8	8.2	8.2	8.2	7.7	7.1	6.6	6.0	4.9
87.5°	1.1	0.5	1.1	0.5	1.1	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°	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7
2.5°	1426.9	1425.8	1425.3	1424.7	1424.2	1423.6	1423.1	1422.0	1421.4	1420.9	1419.8
5°	1426.9	1424.7	1423.6	1422.0	1420.9	1419.8	1418.2	1416.5	1414.9	1413.2	1411.6
7.5°	1424.7	1421.4	1419.2	1416.0	1414.9	1413.2	1409.9	1407.7	1405.0	1401.7	1397.9
10°	1419.2	1415.4	1411.0	1406.6	1405.0	1402.3	1397.9	1394.0	1389.7	1385.3	1381.4
12.5°	1410.5	1404.5	1399.0	1392.9	1389.7	1386.9	1380.9	1375.4	1369.9	1365.0	1358.4
15°	1397.3	1390.2	1383.1	1374.9	1371.0	1367.7	1359.0	1352.4	1343.6	1337.1	1330.5
17.5°	1376.0	1365.0	1356.2	1345.8	1340.3	1336.5	1328.8	1318.4	1310.2	1303.1	1295.4
20°	1339.2	1328.8	1316.8	1305.3	1299.2	1294.3	1283.3	1272.4	1264.2	1256.5	1248.3
22.5°	1291.0	1277.9	1269.1	1254.9	1249.9	1243.9	1230.7	1220.9	1211.6	1203.9	1196.2
25°	1232.4	1220.9	1208.8	1195.7	1189.6	1182.5	1171.6	1161.2	1155.1	1146.4	1137.0
27.5°	1165.0	1155.7	1140.9	1129.4	1123.3	1117.9	1107.5	1098.1	1089.4	1083.3	1074.6
30°	1093.8	1082.8	1069.6	1057.6	1054.3	1047.7	1038.4	1031.3	1022.0	1018.1	1014.3
32.5°	1015.4	1002.8	992.9	985.3	978.7	973.2	968.3	956.8	955.1	945.3	944.2
35°	929.9	924.4	915.1	908.5	903.1	899.2	891.0	885.5	879.5	877.9	874.0
37.5°	849.4	842.8	834.0	828.0	824.1	823.6	817.6	814.3	809.9	807.7	803.3
40°	765.0	762.2	754.6	753.5	747.4	746.9	743.6	739.8	735.9	735.9	736.5
42.5°	687.2	683.9	680.6	676.7	673.5	673.5	671.8	670.7	669.6	668.0	670.7
45°	614.3	609.9	607.7	603.9	605.5	602.2	601.1	601.1	599.5	598.9	602.8
47.5°	546.3	541.4	539.2	538.1	538.1	538.7	533.7	535.4	534.8	535.9	537.6
50°	484.4	480.0	476.7	476.7	477.3	475.1	472.9	474.5	472.9	474.0	477.8
52.5°	426.9	422.5	420.8	420.8	417.6	417.0	418.1	415.9	416.5	417.0	419.2
55°	373.7	371.0	368.2	365.5	366.0	364.9	362.8	362.2	363.3	363.9	366.6
57.5°	326.0	322.2	318.4	317.3	316.2	316.2	313.4	312.9	314.0	311.2	311.2
60°	280.6	278.4	273.4	271.8	271.8	269.1	266.9	268.0	265.2	264.7	265.2
62.5°	238.4	236.7	233.4	230.1	229.1	228.0	225.2	224.1	223.0	220.8	217.5
65°	201.7	197.8	194.0	191.8	190.1	187.4	185.8	183.6	180.3	179.2	175.9
67.5°	164.9	161.1	157.3	155.6	154.0	152.3	149.6	146.9	143.0	138.6	134.8
70°	132.6	127.7	125.5	121.1	120.0	117.8	114.0	111.2	107.4	102.5	98.6
72.5°	101.4	98.1	94.8	91.0	88.2	86.6	83.3	78.9	74.5	71.8	67.9
75°	72.9	71.2	66.9	62.5	61.4	59.2	55.3	52.6	49.3	44.9	41.6
77.5°	49.3	46.0	43.3	39.5	38.4	36.2	34.0	31.2	29.0	26.3	24.1
80°	29.0	26.3	24.7	21.9	20.8	19.7	18.1	15.9	14.2	13.2	12.6
82.5°	14.2	12.1	11.5	9.9	9.3	8.8	7.7	7.1	6.0	6.0	6.0
85°	4.9	3.8	3.8	3.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	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°	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7
2.5°	1419.2	1418.7	1418.2	1417.6	1417.6	1417.1	1417.1	1416.5	1416.5	1416.0	1416.0
5°	1409.4	1407.7	1406.6	1405.5	1405.5	1403.9	1402.8	1401.7	1401.2	1401.2	1400.1
7.5°	1395.7	1393.5	1391.3	1389.7	1389.1	1386.4	1384.2	1384.2	1382.0	1380.9	1379.8
10°	1377.6	1373.8	1370.5	1368.8	1366.6	1365.0	1362.3	1360.6	1359.0	1356.2	1355.7
12.5°	1352.9	1350.2	1345.3	1343.1	1342.0	1338.7	1334.3	1332.1	1331.6	1329.4	1327.7
15°	1325.0	1319.0	1314.6	1311.8	1311.8	1306.4	1304.2	1300.9	1298.7	1297.0	1296.5
17.5°	1288.8	1282.8	1278.4	1274.6	1273.5	1269.1	1265.8	1264.7	1262.0	1263.1	1260.3
20°	1242.3	1237.3	1234.0	1229.1	1229.1	1226.4	1225.3	1222.5	1221.4	1220.3	1221.4
22.5°	1192.4	1186.4	1180.9	1180.3	1180.3	1176.5	1175.9	1175.4	1173.2	1174.9	1174.3
25°	1133.8	1129.4	1126.1	1125.5	1125.5	1123.3	1121.2	1122.2	1123.9	1123.3	1125.0
27.5°	1072.9	1068.5	1067.4	1066.9	1065.8	1065.3	1066.4	1066.4	1068.0	1070.2	1072.4
30°	1007.2	1006.1	1004.4	1003.9	1002.8	1005.5	1006.6	1008.3	1007.7	1011.0	1013.2
32.5°	941.4	939.2	938.7	939.8	941.4	940.9	944.2	945.3	946.3	950.2	951.8
35°	875.1	874.6	873.5	873.5	874.0	878.4	878.4	882.2	884.4	885.5	889.9
37.5°	803.9	806.1	807.2	808.8	809.4	811.0	812.1	815.9	818.1	820.3	822.5
40°	738.7	737.6	742.5	739.2	740.3	745.2	747.4	746.9	750.2	753.5	755.7
42.5°	669.1	670.7	671.8	672.9	675.6	676.2	678.9	682.8	683.9	687.7	688.8
45°	601.7	602.2	604.4	606.6	608.2	612.6	613.7	615.4	618.7	618.7	620.3
47.5°	538.1	540.3	540.3	543.6	546.3	545.8	549.6	550.7	550.2	552.9	554.0
50°	477.3	480.6	480.0	482.2	483.3	483.9	487.1	488.2	486.1	488.8	489.3
52.5°	419.2	420.8	423.0	423.6	422.5	425.2	424.1	426.3	425.8	428.0	425.8
55°	366.0	365.5	365.5	366.6	365.5	366.6	367.7	365.5	363.9	366.0	365.5
57.5°	312.9	312.9	311.8	313.4	311.8	310.2	309.6	308.0	306.3	306.3	305.8
60°	263.0	261.9	259.7	259.2	259.2	256.5	255.4	253.2	253.2	251.0	248.8
62.5°	216.4	213.7	212.1	212.1	211.0	208.2	203.3	200.0	198.9	195.6	195.1
65°	172.6	169.9	168.2	164.9	162.2	161.1	156.2	152.3	150.7	147.4	148.0
67.5°	132.6	128.2	123.3	121.1	119.5	115.6	114.0	111.2	109.6	109.6	109.6
70°	95.3	91.5	86.6	84.9	83.8	80.6	78.9	78.4	80.0	79.5	80.0
72.5°	64.1	60.3	58.1	57.0	55.9	54.2	55.3	55.9	54.8	55.3	55.9
75°	38.9	37.8	36.2	35.6	35.6	36.2	35.6	35.6	36.2	36.2	36.7
77.5°	22.5	21.4	21.4	20.8	21.9	21.4	21.4	21.4	21.9	21.9	21.9
80°	12.1	12.1	12.1	12.1	12.6	12.1	12.6	12.6	12.6	12.6	12.6
82.5°	6.0	6.0	6.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.0
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	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: P857756

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7
2.5°	1414.9	1414.9	1414.9	1413.8	1414.3	1414.3	1413.8	1413.8
5°	1399.5	1399.0	1397.9	1397.9	1396.8	1397.9	1397.3	1397.9
7.5°	1378.7	1378.7	1377.1	1377.1	1376.5	1376.0	1375.4	1376.0
10°	1354.0	1354.0	1352.9	1352.4	1352.9	1350.8	1350.8	1350.2
12.5°	1326.6	1325.5	1324.4	1325.0	1324.4	1322.8	1322.3	1322.8
15°	1294.9	1293.2	1293.8	1292.1	1292.1	1291.6	1292.7	1292.7
17.5°	1259.8	1258.7	1257.6	1258.1	1257.0	1257.6	1257.0	1256.5
20°	1220.9	1220.3	1220.3	1218.1	1218.7	1218.1	1218.7	1220.3
22.5°	1175.9	1175.4	1175.9	1174.3	1175.4	1175.4	1177.0	1177.0
25°	1126.6	1126.1	1127.2	1127.7	1128.3	1129.9	1128.3	1128.8
27.5°	1071.8	1073.5	1075.1	1075.7	1077.9	1076.2	1075.1	1076.8
30°	1016.5	1016.5	1015.9	1018.1	1019.8	1021.4	1018.7	1018.7
32.5°	952.9	955.7	955.7	956.2	957.9	957.9	957.9	960.0
35°	892.1	893.7	894.3	892.1	893.2	892.6	896.5	896.5
37.5°	824.1	824.1	824.7	828.5	828.5	826.9	828.0	828.0
40°	759.5	760.0	757.8	758.9	761.7	760.6	761.7	762.8
42.5°	688.8	692.6	690.4	691.5	691.0	691.5	692.1	692.1
45°	621.4	622.5	622.5	623.0	624.1	625.2	621.9	621.4
47.5°	555.6	556.2	557.8	555.1	558.4	555.1	558.4	554.5
50°	489.3	491.5	489.9	491.0	489.3	489.3	488.8	488.2
52.5°	426.3	425.8	425.8	425.2	425.2	426.3	425.2	426.9
55°	363.3	363.9	362.8	362.2	361.7	363.3	361.7	360.6
57.5°	303.6	304.7	302.5	303.6	299.7	301.4	301.9	302.5
60°	248.2	246.6	246.6	244.4	244.4	246.0	243.8	243.8
62.5°	192.3	193.4	191.8	194.0	194.0	196.2	195.1	196.2
65°	147.4	148.0	148.5	148.5	148.5	151.8	150.7	149.0
67.5°	111.2	111.8	112.3	111.8	113.4	112.3	112.3	112.9
70°	80.6	81.1	81.6	81.6	81.1	81.6	81.6	81.6
72.5°	55.9	56.4	55.9	56.4	57.0	56.4	56.4	57.0
75°	36.7	36.7	36.2	36.2	36.2	36.2	36.7	36.2
77.5°	21.4	21.9	21.4	21.9	21.9	21.9	21.9	21.9
80°	12.6	12.6	12.6	12.1	12.6	12.6	12.6	12.1
82.5°	6.6	6.6	6.0	6.0	6.6	6.6	6.6	6.6
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)