

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252588

Luminaire Tested: **LE_6B30D010 EC6B30509024 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509024 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2660.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

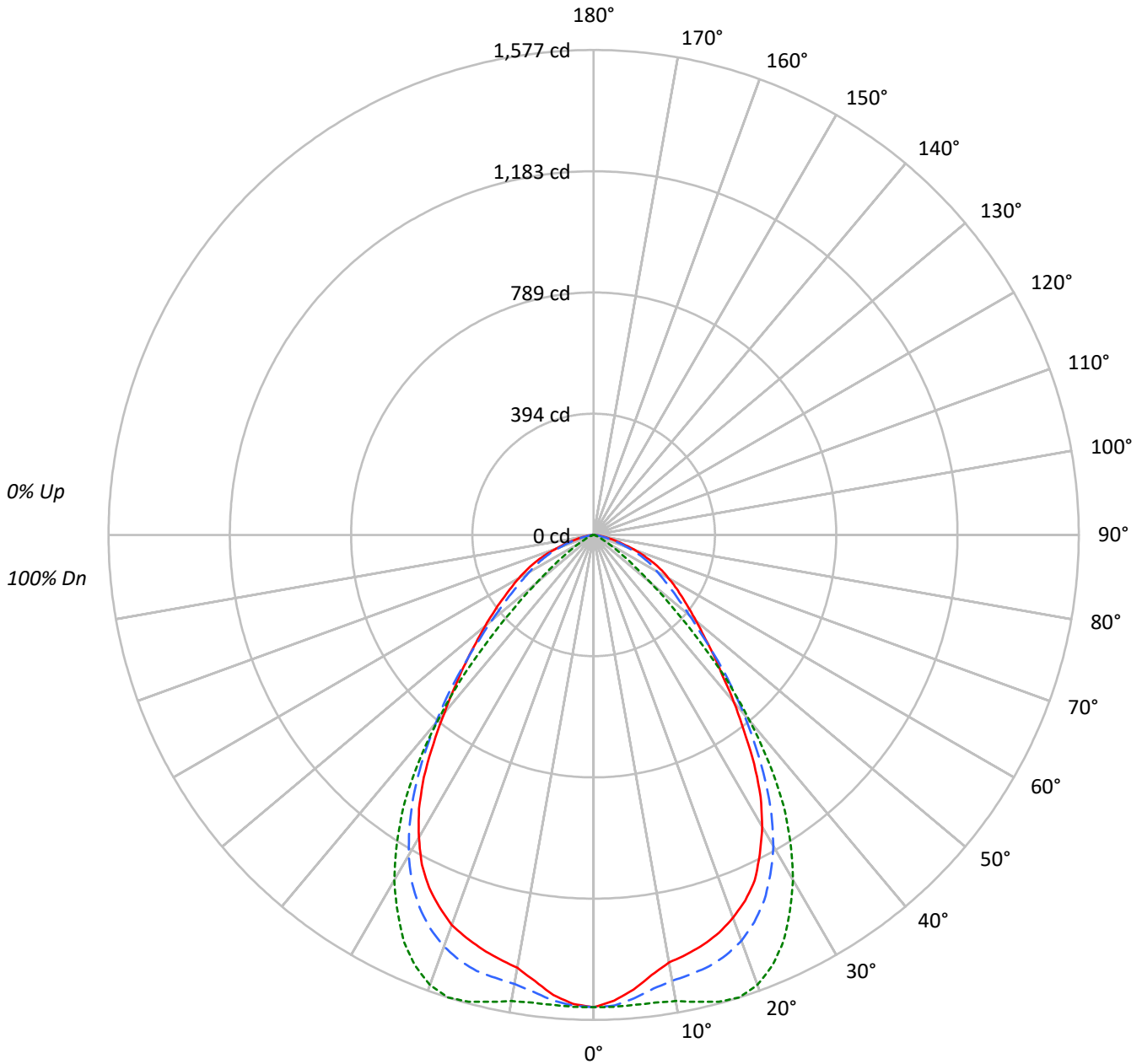
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	100197	100197	100197
5°	97200	100461	98366
10°	93508	101967	94680
15°	93174	106122	94255
20°	91957	108099	93686
25°	89204	105055	91126
30°	82528	97640	85594
35°	72396	85840	76634
40°	60331	67289	64257
45°	50782	44388	54214
50°	43968	24319	46678
55°	39787	12921	40788
60°	36600	6720	36600
65°	33175	3566	32341
70°	26743	2022	24721
75°	18351	1361	17015
80°	12023	676	10670
85°	7935	1347	6662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	5.4
10°-20°	414.1	15.6
20°-30°	611.8	23.0
30°-40°	618.0	23.2
40°-50°	426.0	16.0
50°-60°	244.6	9.2
60°-70°	142.4	5.4
70°-80°	52.0	2.0
80°-90°	7.9	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°	1169.1	44.0
0°-40°	1787.1	67.2
0°-60°	2457.7	92.4
0°-90°	2660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1536	1536	1536	1536	1536	
5°	1484	1513	1534	1520	1502	139
15°	1380	1452	1571	1468	1396	389
25°	1239	1312	1459	1339	1266	565
35°	909	971	1078	1016	962	564
45°	550	558	481	593	588	428
55°	350	307	114	320	359	315
65°	215	181	23	179	210	210
75°	73	59	5	57	68	82
85°	11	5	2	7	9	13
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°	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1516.2	1518.0	1519.8	1518.0	1519.8	1526.9	1521.5	1525.1	1525.1	1526.9	1532.2
5°	1484.2	1484.2	1487.9	1486.0	1491.4	1498.5	1493.1	1498.5	1500.2	1503.8	1512.6
7.5°	1443.4	1443.4	1445.2	1445.2	1452.2	1459.4	1455.9	1463.0	1470.0	1477.1	1487.9
10°	1411.5	1415.0	1415.0	1416.8	1423.9	1432.8	1431.0	1439.9	1447.0	1457.6	1471.9
12.5°	1397.2	1399.0	1399.0	1402.6	1409.8	1418.6	1416.8	1425.6	1436.4	1448.8	1463.0
15°	1379.5	1383.1	1381.2	1384.9	1392.0	1400.9	1399.0	1407.9	1420.4	1432.8	1452.2
17.5°	1356.4	1358.2	1360.0	1360.0	1367.1	1374.1	1374.1	1383.1	1397.2	1411.5	1432.8
20°	1324.5	1328.0	1328.0	1329.8	1335.1	1345.8	1344.0	1352.9	1367.1	1381.2	1404.4
22.5°	1287.2	1289.0	1289.0	1290.8	1299.6	1305.0	1306.8	1313.9	1326.2	1342.2	1363.5
25°	1239.2	1241.0	1239.2	1244.6	1248.1	1258.8	1255.2	1264.1	1278.4	1290.8	1312.0
27.5°	1170.0	1173.5	1173.5	1175.4	1184.2	1193.1	1193.1	1202.0	1214.4	1223.2	1244.6
30°	1095.5	1100.8	1095.5	1104.4	1107.9	1115.0	1120.2	1125.6	1136.2	1148.8	1168.2
32.5°	1010.2	1008.5	1010.2	1013.8	1024.4	1029.8	1033.2	1038.6	1049.2	1059.9	1075.9
35°	909.0	912.6	914.4	921.5	921.5	930.4	932.1	935.6	951.6	958.8	971.1
37.5°	802.5	806.0	807.9	811.4	818.5	822.0	827.4	832.6	843.4	855.8	862.9
40°	708.4	708.4	710.1	713.8	719.0	720.9	726.1	733.2	740.4	751.0	758.1
42.5°	619.6	621.4	619.6	623.1	628.5	635.6	633.9	642.8	644.5	651.6	656.9
45°	550.4	550.4	546.9	550.4	550.4	557.5	555.8	559.2	557.5	561.0	557.5
47.5°	484.8	486.5	484.8	486.5	486.5	486.5	488.2	484.8	486.5	481.1	470.5
50°	433.2	435.0	431.4	433.2	431.4	429.6	431.4	426.1	424.4	417.2	406.6
52.5°	388.9	387.0	385.2	385.2	385.2	383.5	381.8	376.4	371.1	364.0	351.5
55°	349.8	348.0	346.2	346.2	342.6	340.9	340.9	335.5	330.2	321.4	307.1
57.5°	314.2	312.5	310.8	310.8	308.9	305.4	305.4	300.0	293.0	282.2	269.9
60°	280.5	280.5	280.5	278.8	278.8	275.2	275.2	269.9	262.8	252.1	237.9
62.5°	250.4	248.5	248.5	248.5	248.5	246.8	245.0	241.5	234.4	223.8	211.2
65°	214.9	214.9	214.9	214.9	213.0	213.0	213.0	207.8	204.1	193.5	181.1
67.5°	175.8	175.8	175.8	175.8	174.0	175.8	175.8	172.2	168.6	158.0	147.4
70°	140.2	138.5	136.8	138.5	136.8	136.8	138.5	134.9	133.1	124.2	113.6
72.5°	103.0	104.8	103.0	103.0	103.0	101.2	103.0	101.2	97.6	90.5	83.5
75°	72.8	74.6	74.6	72.8	72.8	72.8	71.0	71.0	67.5	62.1	58.6
77.5°	49.8	49.8	49.8	49.8	47.9	47.9	47.9	46.1	44.4	40.9	37.2
80°	32.0	32.0	32.0	32.0	30.1	30.1	30.1	28.4	28.4	24.9	21.2
82.5°	19.5	19.5	19.5	19.5	19.5	19.5	17.8	17.8	16.0	14.2	12.4
85°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	8.9	8.9	7.1	5.4
87.5°	3.5	3.5	5.4	5.4	5.4	5.4	5.4	5.4	3.5	3.5	3.5
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°	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1528.6	1530.4	1530.4	1530.4	1535.8	1537.5	1532.2	1526.9	1537.5	1535.8	1539.2
5°	1510.9	1516.2	1519.8	1521.5	1526.9	1530.4	1525.1	1523.4	1532.2	1534.0	1535.8
7.5°	1489.6	1498.5	1507.4	1510.9	1518.0	1521.5	1519.8	1519.8	1530.4	1534.0	1534.0
10°	1475.4	1487.9	1498.5	1507.4	1516.2	1521.5	1521.5	1523.4	1535.8	1539.2	1542.9
12.5°	1471.9	1487.9	1502.0	1514.5	1521.5	1530.4	1532.2	1537.5	1550.0	1555.2	1555.2
15°	1463.0	1484.2	1502.0	1518.0	1528.6	1539.2	1542.9	1553.5	1567.8	1571.2	1574.8
17.5°	1447.0	1468.2	1489.6	1509.1	1523.4	1532.2	1542.9	1553.5	1571.2	1576.6	1578.4
20°	1418.6	1443.4	1464.8	1484.2	1498.5	1510.9	1521.5	1534.0	1550.0	1557.0	1558.9
22.5°	1376.0	1400.9	1422.1	1443.4	1457.6	1468.2	1478.9	1493.1	1509.1	1516.2	1516.2
25°	1324.5	1347.5	1370.6	1386.6	1400.9	1413.2	1418.6	1434.5	1450.5	1459.4	1459.4
27.5°	1258.8	1280.1	1301.4	1319.1	1328.0	1338.6	1347.5	1361.8	1374.1	1381.2	1388.4
30°	1175.4	1196.6	1216.1	1233.9	1244.6	1255.2	1264.1	1274.8	1287.2	1296.1	1297.9
32.5°	1084.8	1102.5	1122.1	1139.9	1150.5	1154.0	1162.9	1173.5	1184.2	1191.4	1193.1
35°	985.4	997.8	1010.2	1026.2	1036.9	1036.9	1045.8	1052.9	1061.8	1077.8	1074.1
37.5°	868.1	886.0	894.9	900.1	907.2	914.4	916.1	925.0	935.6	939.2	944.5
40°	758.1	763.4	768.8	768.8	775.9	775.9	775.9	777.6	788.2	790.1	797.1
42.5°	648.0	648.0	642.8	637.4	639.1	637.4	628.5	628.5	633.9	640.9	640.9
45°	545.0	532.6	516.6	504.2	495.4	491.8	481.1	481.1	479.4	481.1	488.2
47.5°	458.0	436.8	410.1	385.2	376.4	369.2	353.2	346.2	342.6	344.4	348.0
50°	385.2	362.2	332.0	301.9	285.9	277.0	257.5	245.0	243.2	239.6	246.8
52.5°	332.0	303.6	271.6	236.1	220.1	206.0	184.6	174.0	166.9	166.9	168.6
55°	285.9	255.6	220.1	184.6	168.6	158.0	136.8	122.5	115.4	113.6	119.0
57.5°	246.8	218.4	182.9	147.4	131.4	119.0	97.6	85.2	79.9	76.4	78.1
60°	216.6	188.2	152.6	119.0	104.8	90.5	72.8	58.6	51.5	51.5	53.2
62.5°	188.2	161.6	129.6	97.6	85.2	72.8	53.2	40.9	35.5	33.8	35.5
65°	159.8	134.9	108.2	81.6	69.2	58.6	42.6	32.0	24.9	23.1	24.9
67.5°	129.6	110.1	87.0	65.8	55.0	46.1	32.0	23.1	17.8	16.0	17.8
70°	101.2	83.5	65.8	47.9	40.9	33.8	23.1	17.8	12.4	10.6	12.4
72.5°	72.8	60.4	46.1	33.8	28.4	23.1	16.0	12.4	8.9	7.1	8.9
75°	49.8	40.9	30.1	21.2	17.8	16.0	10.6	7.1	5.4	5.4	5.4
77.5°	32.0	24.9	19.5	14.2	10.6	8.9	5.4	3.5	3.5	3.5	3.5
80°	17.8	14.2	10.6	7.1	5.4	5.4	3.5	3.5	1.8	1.8	1.8
82.5°	10.6	7.1	5.4	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8
85°	5.4	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1532.2	1534.0	1528.6	1535.8	1530.4	1537.5	1537.5	1530.4	1532.2	1528.6	1535.8
5°	1528.6	1528.6	1525.1	1530.4	1523.4	1530.4	1528.6	1516.2	1519.8	1512.6	1519.8
7.5°	1528.6	1525.1	1519.8	1525.1	1516.2	1521.5	1514.5	1502.0	1498.5	1489.6	1489.6
10°	1534.0	1528.6	1521.5	1523.4	1514.5	1516.2	1505.6	1487.9	1482.5	1471.9	1468.2
12.5°	1546.4	1541.1	1530.4	1534.0	1521.5	1521.5	1507.4	1486.0	1475.4	1461.1	1457.6
15°	1564.1	1555.2	1542.9	1544.6	1532.2	1525.1	1507.4	1482.5	1468.2	1448.8	1443.4
17.5°	1567.8	1558.9	1542.9	1542.9	1526.9	1518.0	1496.8	1468.2	1450.5	1431.0	1420.4
20°	1548.1	1539.2	1521.5	1519.8	1505.6	1493.1	1470.0	1441.6	1423.9	1402.6	1393.8
22.5°	1507.4	1496.8	1480.8	1478.9	1464.8	1457.6	1432.8	1404.4	1386.6	1365.2	1358.2
25°	1447.0	1441.6	1425.6	1423.9	1411.5	1402.6	1381.2	1354.6	1338.6	1317.4	1310.2
27.5°	1376.0	1370.6	1354.6	1354.6	1340.5	1335.1	1315.6	1290.8	1278.4	1258.8	1249.9
30°	1290.8	1283.6	1274.8	1273.0	1260.5	1255.2	1237.5	1214.4	1202.0	1186.0	1182.5
32.5°	1189.5	1184.2	1178.9	1177.1	1164.6	1159.4	1146.9	1123.9	1113.2	1099.0	1093.6
35°	1072.4	1068.8	1063.5	1061.8	1056.4	1051.0	1038.6	1020.9	1015.5	1004.9	999.6
37.5°	937.4	941.0	937.4	937.4	932.1	933.9	923.2	912.6	907.2	900.1	896.6
40°	791.9	799.0	804.2	804.2	802.5	809.6	807.9	799.0	797.1	793.6	791.9
42.5°	644.5	648.0	658.6	665.8	664.0	681.8	683.5	690.6	696.0	692.4	694.2
45°	490.0	500.6	514.9	522.0	530.9	553.9	566.4	580.6	593.0	600.1	598.4
47.5°	353.2	365.8	381.8	392.4	408.4	436.8	468.8	486.5	504.2	513.1	522.0
50°	255.6	268.1	287.6	303.6	314.2	353.2	387.0	410.1	429.6	442.1	451.0
52.5°	179.4	193.5	214.9	229.0	245.0	282.2	321.4	348.0	369.2	385.2	394.1
55°	124.2	140.2	159.8	174.0	191.8	230.8	268.1	296.5	319.6	333.8	344.4
57.5°	87.0	101.2	120.8	133.1	150.9	188.2	225.5	253.9	277.0	291.1	303.6
60°	58.6	72.8	92.4	104.8	119.0	156.2	190.0	220.1	241.5	255.6	268.1
62.5°	40.9	53.2	72.8	85.2	97.6	129.6	161.6	188.2	209.5	225.5	236.1
65°	32.0	42.6	58.6	69.2	81.6	108.2	134.9	158.0	179.4	195.2	202.4
67.5°	23.1	33.8	46.1	55.0	63.9	87.0	110.1	127.9	147.4	159.8	168.6
70°	16.0	23.1	33.8	40.9	47.9	65.8	83.5	99.4	113.6	122.5	129.6
72.5°	12.4	16.0	23.1	28.4	33.8	46.1	60.4	72.8	83.5	90.5	97.6
75°	7.1	10.6	16.0	19.5	23.1	32.0	40.9	49.8	56.9	62.1	65.8
77.5°	3.5	5.4	8.9	10.6	14.2	19.5	26.6	32.0	37.2	40.9	44.4
80°	3.5	3.5	5.4	5.4	7.1	10.6	14.2	17.8	21.2	24.9	26.6
82.5°	1.8	1.8	3.5	3.5	3.5	5.4	7.1	10.6	12.4	14.2	16.0
85°	1.8	1.8	1.8	1.8	1.8	3.5	3.5	5.4	7.1	8.9	8.9
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5	5.4
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: P252588

CATALOG NUMBER: LE_6B30D010 EC6B30509024 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1530.4	1534.0	1532.2	1535.8	1530.4	1528.6	1532.2	1526.9
5°	1510.9	1512.6	1510.9	1510.9	1507.4	1503.8	1507.4	1502.0
7.5°	1480.8	1480.8	1475.4	1475.4	1468.2	1464.8	1464.8	1463.0
10°	1455.9	1450.5	1445.2	1447.0	1436.4	1432.8	1431.0	1429.2
12.5°	1443.4	1439.9	1431.0	1431.0	1420.4	1416.8	1415.0	1413.2
15°	1429.2	1422.1	1415.0	1413.2	1404.4	1400.9	1399.0	1395.5
17.5°	1404.4	1399.0	1390.1	1390.1	1381.2	1379.5	1376.0	1374.1
20°	1377.8	1370.6	1363.5	1363.5	1352.9	1352.9	1347.5	1349.4
22.5°	1340.5	1335.1	1328.0	1328.0	1319.1	1317.4	1312.0	1310.2
25°	1296.1	1289.0	1283.6	1281.9	1274.8	1271.2	1269.4	1265.9
27.5°	1237.5	1232.1	1226.9	1223.2	1214.4	1212.6	1207.2	1209.1
30°	1164.6	1161.1	1159.4	1155.8	1145.1	1141.6	1141.6	1136.2
32.5°	1084.8	1079.5	1075.9	1070.6	1061.8	1059.9	1054.6	1056.4
35°	987.1	980.0	974.8	976.5	965.9	964.0	960.5	962.2
37.5°	886.0	878.9	871.8	870.0	861.1	861.1	855.8	855.8
40°	781.2	774.1	770.5	770.5	759.9	761.6	756.4	754.5
42.5°	687.1	680.0	678.2	676.5	671.1	669.4	664.0	665.8
45°	598.4	596.5	596.5	593.0	587.6	585.9	587.6	587.6
47.5°	520.2	522.0	520.2	520.2	516.6	520.2	516.6	518.4
50°	454.5	458.0	458.0	458.0	456.2	458.0	458.0	459.9
52.5°	399.5	404.8	403.0	404.8	403.0	406.6	404.8	406.6
55°	351.5	355.1	356.9	358.6	358.6	358.6	358.6	358.6
57.5°	307.1	312.5	314.2	316.0	316.0	319.6	316.0	316.0
60°	271.6	277.0	278.8	280.5	280.5	282.2	278.8	280.5
62.5°	239.6	245.0	245.0	246.8	246.8	246.8	243.2	245.0
65°	207.8	209.5	211.2	211.2	209.5	209.5	207.8	209.5
67.5°	172.2	174.0	172.2	172.2	170.5	170.5	166.9	168.6
70°	133.1	133.1	134.9	133.1	131.4	133.1	131.4	129.6
72.5°	99.4	99.4	99.4	97.6	97.6	95.9	97.6	97.6
75°	67.5	67.5	69.2	69.2	69.2	69.2	67.5	67.5
77.5°	44.4	44.4	44.4	44.4	46.1	44.4	44.4	44.4
80°	28.4	28.4	30.1	30.1	28.4	28.4	28.4	28.4
82.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
85°	10.6	10.6	10.6	10.6	8.9	8.9	8.9	8.9
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	3.5	3.5
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)