

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: P252276

Luminaire Tested: **LE_6B30D010 EC6B30509024 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509024 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2467.5 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

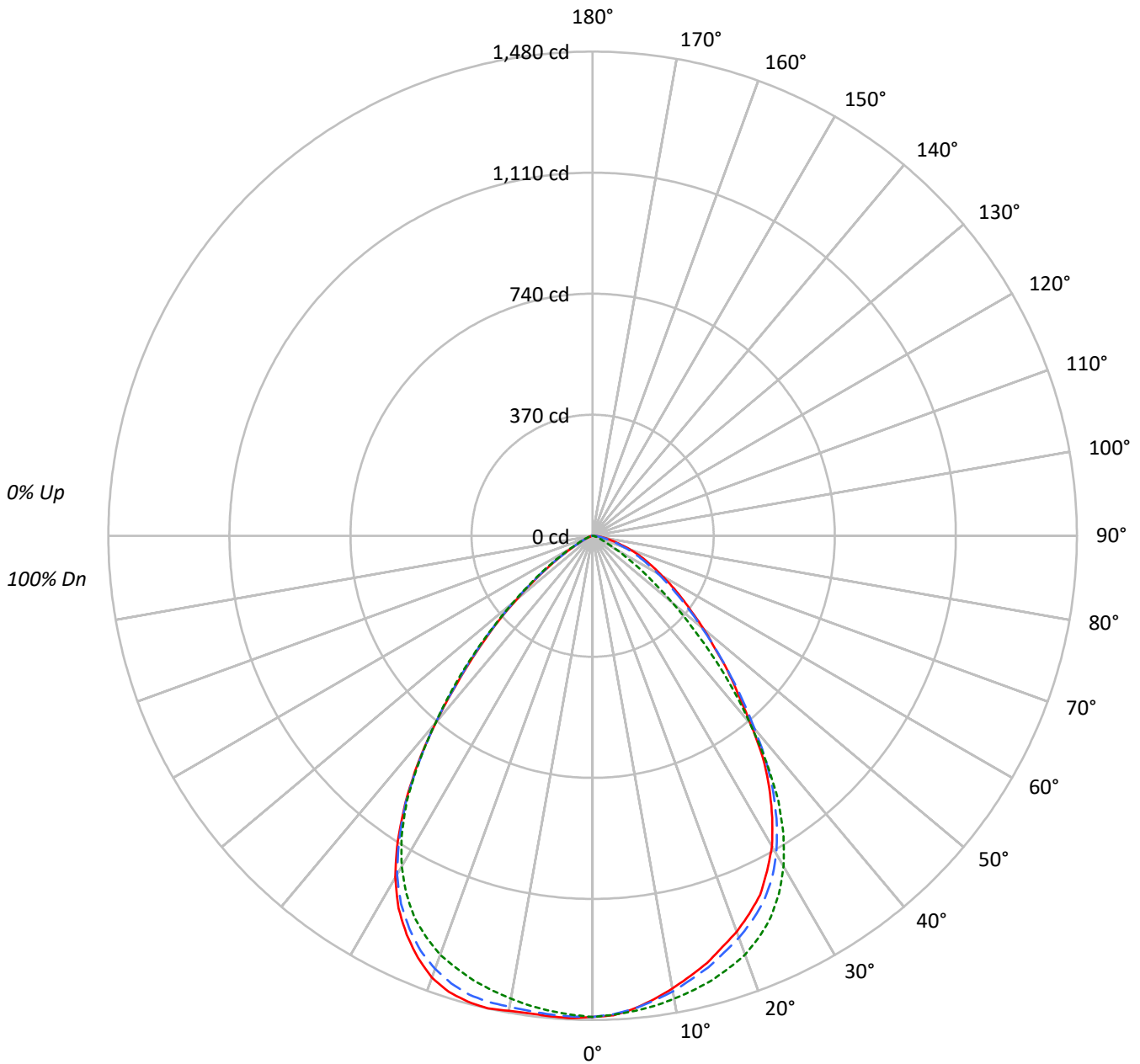
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95956	95956	95956
5°	95039	95510	96558
10°	93077	95197	97675
15°	91303	95025	99584
20°	89416	94588	99767
25°	87210	92710	96791
30°	82565	87914	90860
35°	74985	78800	79501
40°	63993	63695	63380
45°	53753	47691	46215
50°	44882	32276	30652
55°	37774	19803	17983
60°	31981	10425	9029
65°	27694	5480	4384
70°	23043	3395	2365
75°	17015	2243	1361
80°	13338	1315	676
85°	10629	1347	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	5.6
10°-20°	396.9	16.1
20°-30°	586.1	23.8
30°-40°	604.0	24.5
40°-50°	417.2	16.9
50°-60°	205.6	8.3
60°-70°	83.3	3.4
70°-80°	29.7	1.2
80°-90°	6.1	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°	1121.6	45.5
0°-40°	1725.6	69.9
0°-60°	2348.3	95.2
0°-90°	2467.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1471	1471	1471	1471	1471	
5°	1451	1451	1458	1469	1474	137
15°	1352	1366	1407	1453	1474	381
25°	1212	1234	1288	1325	1345	554
35°	942	964	989	995	998	583
45°	583	586	517	510	501	450
55°	332	320	174	163	158	300
65°	179	162	36	28	28	178
75°	68	57	9	5	5	76
85°	14	11	2	0	0	17
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°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1467.2	1461.9	1465.5	1458.4	1467.2	1458.4	1460.1	1461.9	1460.1	1461.9	1463.6
5°	1451.2	1445.9	1451.2	1442.4	1451.2	1445.9	1445.9	1447.8	1447.8	1449.5	1451.2
7.5°	1429.9	1424.6	1429.9	1421.0	1431.8	1426.4	1426.4	1429.9	1428.1	1429.9	1433.5
10°	1405.0	1398.0	1403.2	1398.0	1408.6	1401.5	1405.0	1405.0	1405.0	1410.4	1414.0
12.5°	1378.4	1371.2	1378.4	1369.5	1380.2	1374.9	1376.6	1382.0	1383.8	1387.2	1389.1
15°	1351.8	1342.9	1346.5	1341.1	1351.8	1346.5	1348.2	1355.4	1355.4	1360.6	1366.0
17.5°	1318.0	1310.9	1318.0	1310.9	1319.8	1316.2	1319.8	1325.1	1325.1	1330.5	1335.8
20°	1287.9	1280.8	1286.0	1280.8	1291.4	1286.0	1287.9	1294.9	1296.8	1302.0	1307.4
22.5°	1250.5	1245.2	1248.8	1243.4	1254.1	1250.5	1252.2	1259.4	1261.1	1264.8	1273.6
25°	1211.5	1200.8	1206.1	1202.5	1213.2	1207.9	1211.5	1218.5	1222.1	1227.4	1234.5
27.5°	1154.6	1149.2	1152.9	1152.9	1161.8	1156.4	1158.1	1165.2	1170.6	1175.9	1184.8
30°	1096.0	1087.1	1090.6	1092.4	1099.5	1096.0	1099.5	1106.6	1108.4	1115.5	1122.6
32.5°	1021.4	1017.9	1024.9	1021.4	1024.9	1024.9	1026.8	1032.0	1035.6	1039.1	1048.0
35°	941.5	934.4	941.5	937.9	946.8	941.5	946.8	952.1	952.1	959.2	964.5
37.5°	854.4	845.5	849.1	849.1	852.6	850.9	850.9	859.8	861.5	866.9	872.1
40°	751.4	747.9	754.9	753.1	754.9	754.9	756.8	762.0	765.6	767.4	769.1
42.5°	659.0	660.8	662.5	662.5	662.5	662.5	662.5	669.6	667.9	673.2	675.0
45°	582.6	575.5	579.1	577.2	582.6	577.2	582.6	588.0	584.4	589.8	586.1
47.5°	504.5	504.5	504.5	502.8	506.2	504.5	508.0	509.8	509.8	509.8	508.0
50°	442.2	437.0	438.8	438.8	440.5	438.8	442.2	444.1	444.1	440.5	433.4
52.5°	381.9	380.1	380.1	383.6	383.6	381.9	381.9	381.9	381.9	376.6	373.0
55°	332.1	328.6	330.4	330.4	330.4	330.4	332.1	330.4	330.4	325.1	319.8
57.5°	287.8	284.2	284.2	284.2	286.0	284.2	284.2	284.2	282.4	277.1	270.0
60°	245.1	243.4	245.1	245.1	246.9	245.1	245.1	245.1	241.6	236.2	229.1
62.5°	209.6	209.6	209.6	211.4	211.4	209.6	209.6	207.9	206.0	199.0	191.9
65°	179.4	177.6	179.4	179.4	181.1	181.1	179.4	177.6	175.9	168.8	161.6
67.5°	149.2	147.4	149.2	149.2	151.0	149.2	149.2	149.2	143.9	140.4	133.2
70°	120.8	119.0	119.0	119.0	120.8	117.2	119.0	119.0	115.5	110.1	103.0
72.5°	92.4	92.4	92.4	92.4	92.4	92.4	90.6	90.6	87.0	81.8	78.1
75°	67.5	67.5	69.2	69.2	67.5	67.5	67.5	65.8	64.0	60.4	56.9
77.5°	49.8	49.8	49.8	49.8	48.0	48.0	48.0	46.1	44.4	42.6	39.1
80°	35.5	35.5	35.5	33.8	35.5	33.8	33.8	33.8	30.2	28.4	26.6
82.5°	24.9	23.1	23.1	23.1	23.1	23.1	23.1	21.4	21.4	19.5	17.8
85°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	12.4	10.6	10.6
87.5°	7.1	8.9	8.9	8.9	8.9	8.9	8.9	7.1	7.1	7.1	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1463.6	1463.6	1467.2	1461.9	1470.8	1465.5	1463.6	1472.5	1467.2	1465.5	1469.0
5°	1451.2	1453.0	1454.8	1451.2	1460.1	1454.8	1454.8	1463.6	1460.1	1458.4	1463.6
7.5°	1435.2	1437.0	1440.6	1438.8	1445.9	1442.4	1444.1	1453.0	1449.5	1449.5	1454.8
10°	1415.8	1419.2	1422.9	1422.9	1431.8	1428.1	1428.1	1438.8	1435.2	1437.0	1444.1
12.5°	1392.6	1398.0	1403.2	1405.0	1414.0	1408.6	1410.4	1422.9	1421.0	1422.9	1429.9
15°	1367.8	1374.9	1380.2	1380.2	1390.9	1385.5	1390.9	1403.2	1399.8	1406.9	1415.8
17.5°	1339.4	1346.5	1353.5	1355.4	1366.0	1362.4	1369.5	1382.0	1382.0	1385.5	1396.1
20°	1312.8	1321.6	1325.1	1330.5	1341.1	1339.4	1342.9	1357.1	1357.1	1362.4	1373.1
22.5°	1277.1	1286.0	1293.1	1298.5	1307.4	1307.4	1312.8	1325.1	1325.1	1328.6	1339.4
25°	1238.1	1248.8	1254.1	1259.4	1268.2	1266.5	1271.9	1282.5	1284.2	1287.9	1298.5
27.5°	1188.4	1197.2	1204.4	1207.9	1220.4	1213.2	1218.5	1231.0	1229.2	1232.8	1241.6
30°	1126.1	1135.0	1142.1	1142.1	1152.9	1152.9	1158.1	1163.5	1163.5	1167.0	1174.1
32.5°	1053.4	1064.0	1064.0	1069.4	1076.5	1069.4	1076.5	1083.5	1080.0	1085.4	1090.6
35°	969.9	975.2	977.0	977.0	982.2	980.5	978.8	984.1	980.5	989.4	994.8
37.5°	868.6	875.8	872.1	875.8	874.0	868.6	868.6	877.5	870.4	872.1	877.5
40°	770.9	770.9	769.1	760.2	762.0	756.8	754.9	756.8	749.6	747.9	754.9
42.5°	669.6	667.9	662.5	650.1	651.9	643.0	635.9	635.9	632.4	630.6	632.4
45°	579.1	573.8	564.9	550.6	547.1	540.0	525.8	522.2	516.9	516.9	518.6
47.5°	495.6	488.5	474.2	458.2	449.4	440.5	426.4	421.0	412.1	408.5	412.1
50°	426.4	413.9	396.1	373.0	364.1	353.5	339.2	330.4	321.5	318.0	316.1
52.5°	362.4	344.6	326.9	298.4	291.4	280.6	261.1	252.2	243.4	236.2	236.2
55°	307.2	291.4	266.5	239.8	229.1	218.5	199.0	186.5	177.6	174.1	170.5
57.5°	257.6	239.8	216.8	188.2	177.6	167.0	147.4	135.0	126.1	120.8	117.2
60°	216.8	197.1	174.1	149.2	136.8	126.1	106.6	94.1	85.2	79.9	76.4
62.5°	177.6	161.6	138.5	115.5	104.8	94.1	78.1	65.8	56.9	53.2	48.0
65°	149.2	133.2	111.9	92.4	83.5	72.9	58.6	48.0	40.9	35.5	32.0
67.5°	120.8	108.4	90.6	72.9	64.0	56.9	44.4	35.5	28.4	24.9	23.1
70°	95.9	83.5	69.2	55.1	49.8	42.6	33.8	24.9	21.4	17.8	16.0
72.5°	71.0	62.1	51.5	40.9	35.5	32.0	23.1	19.5	14.2	12.4	10.6
75°	51.5	44.4	37.2	28.4	24.9	23.1	17.8	12.4	10.6	8.9	7.1
77.5°	35.5	32.0	24.9	19.5	17.8	16.0	12.4	8.9	7.1	5.4	5.4
80°	23.1	19.5	16.0	12.4	12.4	10.6	7.1	5.4	5.4	3.5	3.5
82.5°	14.2	12.4	10.6	8.9	7.1	7.1	5.4	3.5	3.5	1.8	1.8
85°	8.9	7.1	5.4	5.4	3.5	3.5	3.5	1.8	1.8	1.8	1.8
87.5°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	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°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1469.0	1469.0	1472.5	1467.2	1470.8	1470.8	1474.4	1467.2	1470.8	1472.5	1476.1
5°	1461.9	1463.6	1467.2	1465.5	1467.2	1467.2	1470.8	1461.9	1469.0	1469.0	1474.4
7.5°	1454.8	1454.8	1458.4	1456.6	1460.1	1461.9	1465.5	1458.4	1465.5	1465.5	1470.8
10°	1445.9	1445.9	1451.2	1449.5	1454.8	1456.6	1461.9	1454.8	1461.9	1463.6	1469.0
12.5°	1433.5	1435.2	1440.6	1440.6	1445.9	1449.5	1454.8	1451.2	1460.1	1461.9	1469.0
15°	1419.2	1422.9	1429.9	1428.1	1433.5	1438.8	1445.9	1440.6	1453.0	1456.6	1463.6
17.5°	1401.5	1405.0	1410.4	1410.4	1415.8	1419.2	1428.1	1424.6	1435.2	1437.0	1445.9
20°	1374.9	1380.2	1387.2	1385.5	1390.9	1394.4	1401.5	1398.0	1408.6	1412.1	1421.0
22.5°	1342.9	1346.5	1351.8	1351.8	1357.1	1360.6	1367.8	1362.4	1373.1	1374.9	1382.0
25°	1300.2	1303.8	1307.4	1309.1	1314.5	1316.2	1319.8	1316.2	1325.1	1326.9	1335.8
27.5°	1245.2	1247.0	1252.2	1252.2	1255.9	1257.6	1263.0	1255.9	1268.2	1268.2	1273.6
30°	1179.5	1177.8	1184.8	1181.2	1184.8	1184.8	1190.1	1186.6	1195.5	1191.9	1197.2
32.5°	1092.4	1096.0	1096.0	1092.4	1099.5	1097.8	1097.8	1094.2	1099.5	1101.2	1104.9
35°	991.1	996.5	996.5	998.2	1000.0	994.8	996.5	985.9	994.8	996.5	998.2
37.5°	881.0	875.8	879.2	874.0	882.9	872.1	872.1	865.0	872.1	872.1	874.0
40°	754.9	753.1	756.8	753.1	751.4	749.6	746.0	740.8	747.9	744.2	749.6
42.5°	635.9	634.1	634.1	630.6	628.9	628.9	625.2	621.8	619.9	619.9	628.9
45°	513.4	516.9	513.4	511.6	515.1	511.6	513.4	506.2	509.8	506.2	509.8
47.5°	410.4	412.1	408.5	405.0	410.4	405.0	405.0	399.6	406.8	406.8	403.2
50°	318.0	316.1	312.6	316.1	314.4	314.4	314.4	309.1	312.6	307.2	310.9
52.5°	234.5	232.8	232.8	230.9	232.8	230.9	230.9	229.1	229.1	227.4	229.1
55°	170.5	168.8	165.2	165.2	165.2	167.0	165.2	163.4	163.4	161.6	163.4
57.5°	115.5	111.9	111.9	111.9	111.9	110.1	110.1	108.4	110.1	108.4	110.1
60°	74.6	74.6	71.0	71.0	71.0	71.0	71.0	69.2	71.0	71.0	71.0
62.5°	46.1	46.1	44.4	42.6	44.4	42.6	42.6	42.6	44.4	42.6	44.4
65°	30.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
67.5°	21.4	19.5	19.5	19.5	19.5	19.5	19.5	17.8	19.5	19.5	19.5
70°	14.2	14.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
72.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
75°	7.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	5.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P252276

CATALOG NUMBER: LE_6B30D010 EC6B30509024 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1470.8	1472.5	1469.0	1470.8	1467.2	1470.8	1472.5	1476.1
5°	1467.2	1469.0	1465.5	1469.0	1465.5	1469.0	1470.8	1474.4
7.5°	1463.6	1467.2	1463.6	1467.2	1463.6	1467.2	1469.0	1472.5
10°	1463.6	1469.0	1465.5	1470.8	1465.5	1469.0	1472.5	1474.4
12.5°	1463.6	1469.0	1467.2	1470.8	1469.0	1472.5	1476.1	1479.6
15°	1460.1	1465.5	1461.9	1467.2	1465.5	1467.2	1474.4	1474.4
17.5°	1440.6	1445.9	1445.9	1449.5	1449.5	1454.8	1458.4	1461.9
20°	1415.8	1421.0	1419.2	1424.6	1424.6	1429.9	1433.5	1437.0
22.5°	1378.4	1385.5	1383.8	1389.1	1387.2	1390.9	1398.0	1396.1
25°	1330.5	1339.4	1337.5	1341.1	1339.4	1339.4	1342.9	1344.6
27.5°	1271.9	1277.1	1275.4	1279.0	1275.4	1279.0	1282.5	1284.2
30°	1195.5	1199.0	1197.2	1199.0	1197.2	1200.8	1202.5	1206.1
32.5°	1103.1	1108.4	1103.1	1106.6	1104.9	1104.9	1112.0	1108.4
35°	993.0	994.8	996.5	996.5	993.0	994.8	998.2	998.2
37.5°	870.4	879.2	868.6	874.0	872.1	872.1	872.1	877.5
40°	742.5	744.2	740.8	740.8	740.8	739.0	746.0	744.2
42.5°	621.8	623.5	621.8	616.4	618.1	618.1	623.5	616.4
45°	504.5	508.0	506.2	506.2	502.8	502.8	504.5	500.9
47.5°	399.6	403.2	397.9	399.6	396.1	399.6	397.9	401.5
50°	303.8	307.2	305.5	307.2	307.2	303.8	309.1	302.0
52.5°	227.4	229.1	227.4	225.6	223.9	223.9	227.4	225.6
55°	161.6	159.9	159.9	159.9	161.6	161.6	159.9	158.1
57.5°	108.4	108.4	106.6	106.6	108.4	104.8	106.6	104.8
60°	69.2	69.2	69.2	69.2	67.5	69.2	69.2	69.2
62.5°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
65°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
67.5°	17.8	19.5	19.5	19.5	17.8	17.8	17.8	17.8
70°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
72.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
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)