

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: P252487

Luminaire Tested: **LE_6B30D010 EC6B30509035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2716.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

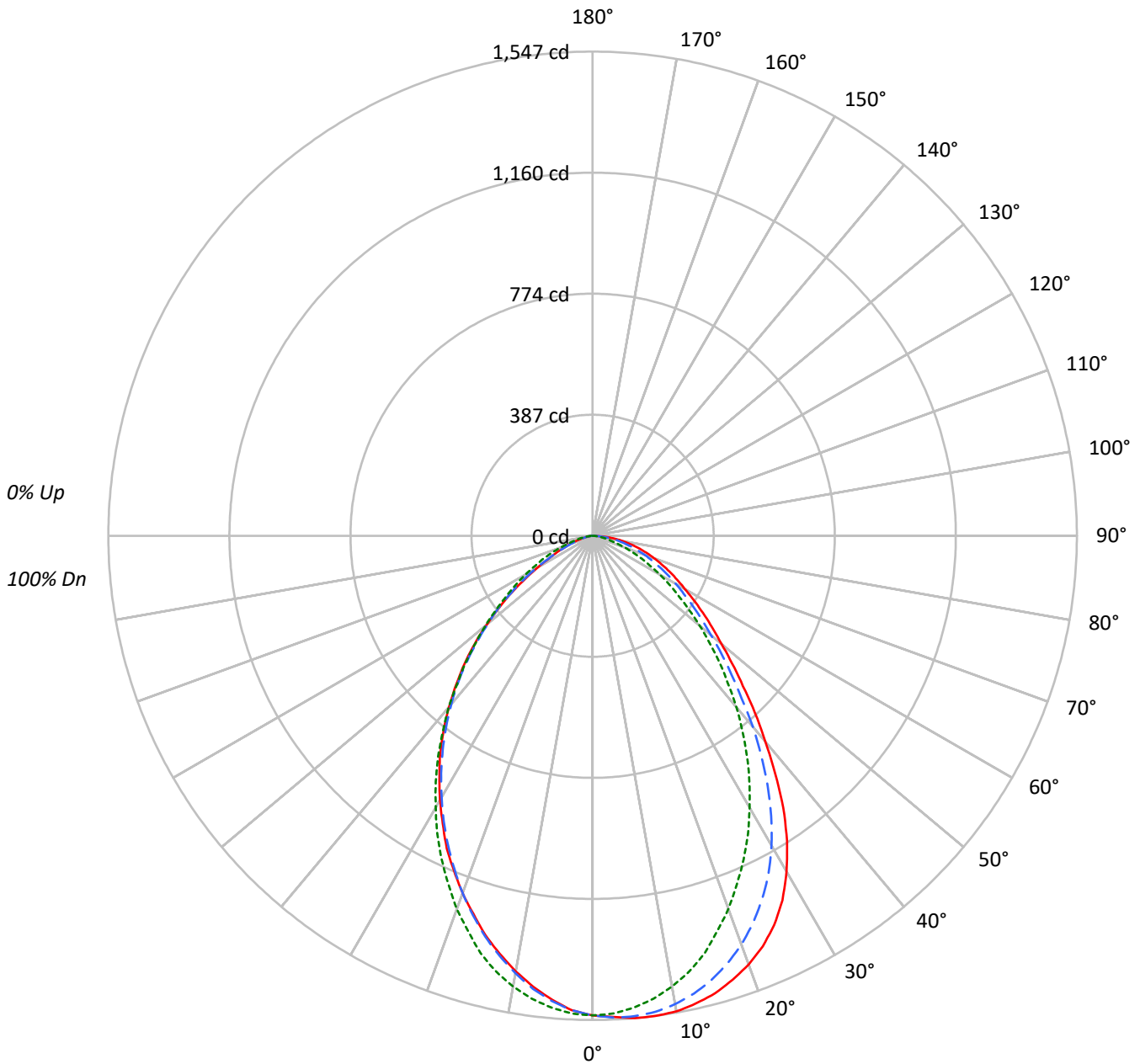
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99975	99975	99975
5°	101326	99099	97423
10°	102219	96860	93614
15°	102205	93289	89264
20°	101219	88069	84368
25°	98821	82121	79364
30°	93308	75514	73435
35°	84582	68486	67626
40°	73055	60902	60723
45°	62638	53015	53412
50°	54443	45369	44709
55°	48898	38241	35829
60°	44429	32216	26370
65°	41711	26614	19389
70°	39791	20696	14211
75°	38088	15023	9629
80°	35993	10369	6387
85°	31888	6363	3144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	5.3
10°-20°	392.6	14.5
20°-30°	545.0	20.1
30°-40°	564.5	20.8
40°-50°	463.9	17.1
50°-60°	318.8	11.7
60°-70°	183.3	6.7
70°-80°	84.2	3.1
80°-90°	20.5	0.8
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°	1080.9	39.8
0°-40°	1645.5	60.6
0°-60°	2428.2	89.4
0°-90°	2716.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2716.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1532	1532	1532	1532	1532	
5°	1547	1541	1513	1492	1488	147
15°	1513	1468	1381	1326	1322	426
25°	1373	1281	1141	1092	1102	628
35°	1062	975	860	834	849	659
45°	679	628	575	568	579	529
55°	430	390	336	317	315	387
65°	270	236	172	121	126	269
75°	151	119	60	38	38	160
85°	43	30	8	4	4	48
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°	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1538.8	1551.5	1543.0	1540.9	1545.1	1545.1	1545.1	1538.8	1543.0	1536.6	1540.9
5°	1547.2	1557.9	1549.4	1545.1	1549.4	1551.5	1545.1	1540.9	1547.2	1538.8	1540.9
7.5°	1547.2	1557.9	1549.4	1547.2	1549.4	1549.4	1547.2	1538.8	1543.0	1534.5	1534.5
10°	1543.0	1551.5	1543.0	1538.8	1540.9	1538.8	1538.8	1528.1	1530.2	1519.6	1519.6
12.5°	1530.2	1540.9	1530.2	1526.0	1526.0	1526.0	1519.6	1511.1	1513.2	1500.5	1498.4
15°	1513.2	1521.8	1511.1	1506.9	1506.9	1504.8	1500.5	1487.6	1487.6	1474.9	1468.5
17.5°	1487.6	1496.1	1487.6	1481.2	1479.1	1474.9	1470.6	1457.9	1453.6	1438.8	1432.4
20°	1457.9	1464.2	1455.8	1449.4	1445.1	1440.9	1432.4	1419.6	1415.2	1400.4	1389.8
22.5°	1419.6	1428.1	1415.2	1408.9	1404.6	1398.2	1389.8	1377.0	1370.6	1351.5	1338.8
25°	1372.8	1377.0	1366.4	1360.0	1351.5	1347.2	1340.9	1323.8	1317.4	1296.1	1281.2
27.5°	1313.1	1317.4	1304.6	1300.4	1289.8	1285.5	1277.0	1262.1	1253.5	1232.2	1217.4
30°	1238.6	1242.9	1234.4	1228.0	1219.5	1211.0	1204.6	1189.8	1177.0	1155.6	1142.9
32.5°	1155.6	1162.0	1153.5	1145.0	1130.1	1132.2	1121.6	1106.8	1096.1	1076.9	1062.0
35°	1062.0	1066.2	1055.6	1053.5	1045.0	1036.5	1025.9	1015.2	1008.8	987.5	974.8
37.5°	957.8	968.4	957.8	949.2	945.0	938.6	932.2	917.2	913.0	900.2	883.2
40°	857.8	864.1	857.8	849.1	842.8	842.8	834.2	825.8	815.1	802.4	796.0
42.5°	768.2	764.0	761.9	757.6	749.1	747.0	744.9	734.2	727.9	715.1	704.5
45°	678.9	681.0	676.8	674.6	668.2	664.0	659.8	651.2	649.1	636.4	627.9
47.5°	604.4	602.2	598.0	598.0	593.8	589.5	585.2	578.9	576.8	566.1	557.6
50°	536.4	538.5	536.4	534.2	527.9	525.6	521.4	517.1	512.9	502.2	493.8
52.5°	481.0	478.9	476.8	476.8	470.4	468.2	464.0	459.8	455.5	444.8	438.4
55°	429.9	429.9	427.8	425.6	419.2	417.1	415.0	410.8	404.4	395.9	389.5
57.5°	383.1	383.1	381.0	378.9	374.6	374.6	370.4	366.1	361.8	353.2	344.8
60°	340.5	342.6	340.5	338.4	334.1	334.1	332.0	325.6	323.5	312.9	306.5
62.5°	304.4	304.4	304.4	302.2	300.1	295.9	295.9	289.5	285.2	278.8	270.2
65°	270.2	270.2	270.2	268.1	263.9	261.8	259.6	255.4	251.1	244.8	236.2
67.5°	238.4	238.4	238.4	236.2	232.0	229.9	227.8	225.6	219.2	212.9	204.4
70°	208.6	208.6	206.5	204.4	202.1	200.0	197.9	193.6	189.4	180.9	174.5
72.5°	178.8	178.8	178.8	174.5	172.4	172.4	168.1	166.0	161.8	153.2	146.9
75°	151.1	149.0	149.0	146.9	144.8	142.6	140.5	138.4	132.0	127.8	119.1
77.5°	123.5	123.5	121.2	119.1	119.1	117.0	114.9	110.6	108.5	102.1	95.8
80°	95.8	95.8	95.8	95.8	93.6	91.5	91.5	87.2	85.1	78.8	74.5
82.5°	72.4	70.2	70.2	70.2	68.1	66.0	66.0	63.9	61.8	57.5	53.2
85°	42.6	40.4	40.4	40.4	38.2	38.2	36.1	36.1	34.0	29.8	29.8
87.5°	12.8	12.8	14.9	14.9	12.8	12.8	12.8	12.8	12.8	10.6	10.6
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°	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.6	1543.0	1534.5	1532.4	1540.9	1536.6	1534.5	1530.2	1532.4	1528.1	1521.8
5°	1534.5	1543.0	1532.4	1526.0	1536.6	1530.2	1526.0	1521.8	1521.8	1513.2	1509.0
7.5°	1528.1	1532.4	1521.8	1515.4	1521.8	1515.4	1511.1	1504.8	1502.6	1491.9	1485.5
10°	1511.1	1515.4	1502.6	1494.0	1500.5	1491.9	1485.5	1479.1	1474.9	1462.1	1453.6
12.5°	1487.6	1489.8	1474.9	1464.2	1468.5	1462.1	1451.5	1443.0	1438.8	1426.0	1415.2
15°	1455.8	1457.9	1440.9	1426.0	1430.2	1421.8	1408.9	1400.4	1394.0	1381.2	1366.4
17.5°	1417.5	1415.2	1396.1	1381.2	1383.4	1372.8	1360.0	1347.2	1338.8	1323.8	1313.1
20°	1374.9	1368.5	1347.2	1330.1	1332.2	1319.5	1304.6	1291.9	1281.2	1268.5	1253.5
22.5°	1321.6	1313.1	1294.0	1272.8	1274.9	1264.2	1242.9	1232.2	1221.6	1204.6	1191.9
25°	1264.2	1251.4	1232.2	1211.0	1211.0	1198.2	1181.2	1168.4	1157.8	1140.8	1125.9
27.5°	1196.1	1189.8	1164.1	1147.1	1145.0	1132.2	1117.4	1102.5	1089.6	1074.8	1059.9
30°	1121.6	1111.0	1091.8	1072.6	1068.4	1057.8	1042.9	1025.9	1017.4	1002.4	989.6
32.5°	1042.9	1032.2	1010.9	991.8	989.6	981.1	968.4	951.4	942.9	932.2	923.6
35°	953.5	949.2	927.9	913.0	913.0	904.5	891.8	876.9	870.5	859.9	849.1
37.5°	868.4	862.0	842.8	830.0	830.0	819.4	806.6	800.2	793.9	785.4	779.0
40°	779.0	774.8	759.8	747.0	749.1	740.6	732.1	723.6	719.4	715.1	708.8
42.5°	696.0	691.8	681.0	670.4	670.4	664.0	655.5	649.1	644.9	638.5	636.4
45°	621.5	615.1	606.5	595.9	595.9	589.5	585.2	581.0	578.9	574.6	568.2
47.5°	549.1	544.9	536.4	525.6	525.6	525.6	517.1	510.8	510.8	506.5	504.4
50°	487.4	481.0	474.6	466.1	466.1	461.9	455.5	449.1	449.1	447.0	442.6
52.5°	429.9	425.6	417.1	408.6	408.6	404.4	398.0	395.9	393.8	387.4	385.2
55°	381.0	376.8	370.4	359.6	357.5	355.4	349.0	344.8	342.6	336.2	336.2
57.5°	336.2	332.0	321.4	315.0	312.9	308.6	302.2	298.0	295.9	291.6	287.4
60°	298.0	291.6	283.0	274.5	272.4	268.1	261.8	257.5	255.4	246.9	242.6
62.5°	261.8	255.4	246.9	238.4	236.2	232.0	223.5	219.2	215.0	206.5	202.1
65°	227.8	221.4	212.9	204.4	200.0	197.9	189.4	183.0	178.8	172.4	163.9
67.5°	195.8	189.4	180.9	170.2	170.2	163.9	157.5	151.1	144.8	138.4	132.0
70°	166.0	159.6	151.1	142.6	140.5	136.2	129.9	121.2	117.0	108.5	102.1
72.5°	138.4	132.0	123.5	114.9	112.8	108.5	102.1	93.6	87.2	80.9	74.5
75°	112.8	106.4	97.9	91.5	89.4	85.1	78.8	70.2	63.9	59.6	53.2
77.5°	89.4	83.0	76.6	70.2	68.1	63.9	57.5	53.2	46.9	42.6	36.1
80°	68.1	63.9	57.5	53.2	51.1	46.9	42.6	36.1	31.9	27.6	25.5
82.5°	49.0	44.8	40.4	34.0	34.0	29.8	27.6	23.4	19.1	17.0	14.9
85°	27.6	23.4	21.2	19.1	17.0	17.0	14.9	12.8	10.6	8.5	8.5
87.5°	8.5	8.5	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2
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°	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1521.8	1523.9	1519.6	1523.9	1519.6	1521.8	1517.5	1521.8	1517.5	1521.8	1513.2
5°	1506.9	1506.9	1500.5	1504.8	1500.5	1502.6	1494.0	1496.1	1491.9	1496.1	1487.6
7.5°	1481.2	1483.4	1472.8	1477.0	1470.6	1470.6	1464.2	1466.4	1460.0	1462.1	1455.8
10°	1451.5	1449.4	1438.8	1443.0	1434.5	1434.5	1428.1	1428.1	1419.6	1421.8	1413.1
12.5°	1408.9	1406.8	1394.0	1398.2	1389.8	1389.8	1383.4	1383.4	1374.9	1379.1	1370.6
15°	1360.0	1357.9	1345.1	1347.2	1338.8	1338.8	1330.1	1332.2	1325.9	1330.1	1321.6
17.5°	1304.6	1302.5	1289.8	1291.9	1281.2	1283.4	1277.0	1274.9	1270.6	1272.8	1266.4
20°	1247.1	1242.9	1230.1	1232.2	1228.0	1221.6	1217.4	1219.5	1215.2	1219.5	1213.1
22.5°	1187.6	1179.1	1168.4	1168.4	1164.1	1164.1	1157.8	1162.0	1153.5	1159.9	1155.6
25°	1119.5	1113.1	1104.6	1108.9	1100.4	1100.4	1094.0	1096.1	1091.8	1096.1	1091.8
27.5°	1053.5	1049.2	1036.5	1040.8	1034.4	1036.5	1030.1	1032.2	1030.1	1034.4	1030.1
30°	983.2	981.1	972.6	972.6	970.5	968.4	966.2	966.2	964.1	970.5	966.2
32.5°	917.2	910.9	902.4	908.8	898.1	904.5	900.2	904.5	900.2	904.5	902.4
35°	849.1	847.0	836.4	838.5	836.4	836.4	834.2	834.2	834.2	840.6	840.6
37.5°	776.9	774.8	768.2	770.5	766.1	764.0	764.0	768.2	768.2	772.6	772.6
40°	706.6	708.8	702.4	702.4	700.2	700.2	700.2	704.5	702.4	706.6	704.5
42.5°	636.4	636.4	630.0	632.1	630.0	632.1	632.1	636.4	636.4	638.5	636.4
45°	570.4	570.4	568.2	570.4	566.1	568.2	566.1	570.4	568.2	570.4	570.4
47.5°	504.4	504.4	504.4	502.2	502.2	502.2	502.2	502.2	500.1	504.4	502.2
50°	442.6	444.8	442.6	442.6	440.5	442.6	440.5	440.5	436.2	438.4	438.4
52.5°	387.4	387.4	383.1	383.1	383.1	381.0	381.0	381.0	378.9	378.9	374.6
55°	334.1	334.1	329.9	329.9	327.8	325.6	323.5	323.5	317.1	317.1	310.8
57.5°	285.2	283.0	276.6	276.6	272.4	270.2	268.1	266.0	261.8	257.5	255.4
60°	240.5	236.2	232.0	229.9	225.6	221.4	217.1	212.9	208.6	206.5	204.4
62.5°	197.9	191.5	187.2	185.1	180.9	174.5	170.2	166.0	161.8	159.6	155.4
65°	159.6	153.2	146.9	144.8	140.5	136.2	129.9	125.6	121.2	119.1	119.1
67.5°	125.6	119.1	110.6	110.6	106.4	102.1	97.9	93.6	91.5	93.6	93.6
70°	93.6	89.4	83.0	80.9	76.6	72.4	70.2	70.2	70.2	72.4	70.2
72.5°	70.2	63.9	59.6	57.5	55.4	53.2	53.2	53.2	51.1	53.2	53.2
75°	49.0	44.8	40.4	40.4	38.2	38.2	38.2	38.2	38.2	38.2	38.2
77.5°	34.0	29.8	27.6	27.6	27.6	25.5	25.5	25.5	25.5	25.5	25.5
80°	21.2	21.2	19.1	19.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0
82.5°	12.8	12.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	6.4	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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: P252487

CATALOG NUMBER: LE_6B30D010 EC6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1513.2	1519.6	1511.1	1517.5	1515.4	1513.2	1509.0	1517.5
5°	1487.6	1489.8	1481.2	1489.8	1487.6	1483.4	1479.1	1487.6
7.5°	1451.5	1457.9	1447.2	1455.8	1453.6	1449.4	1445.1	1453.6
10°	1411.0	1417.5	1408.9	1415.2	1415.2	1411.0	1404.6	1413.1
12.5°	1366.4	1370.6	1362.1	1370.6	1368.5	1364.2	1362.1	1368.5
15°	1317.4	1323.8	1315.2	1321.6	1319.5	1317.4	1315.2	1321.6
17.5°	1264.2	1270.6	1264.2	1270.6	1270.6	1264.2	1262.1	1266.4
20°	1211.0	1215.2	1208.9	1215.2	1213.1	1213.1	1208.9	1215.2
22.5°	1151.4	1157.8	1153.5	1157.8	1155.6	1155.6	1153.5	1157.8
25°	1091.8	1098.2	1091.8	1098.2	1096.1	1096.1	1091.8	1102.5
27.5°	1032.2	1036.5	1030.1	1038.6	1036.5	1032.2	1034.4	1036.5
30°	968.4	972.6	968.4	974.8	974.8	974.8	970.5	974.8
32.5°	904.5	910.9	904.5	910.9	908.8	908.8	906.6	910.9
35°	840.6	842.8	838.5	844.9	844.9	847.0	842.8	849.1
37.5°	774.8	776.9	774.8	776.9	781.1	774.8	779.0	781.1
40°	706.6	710.9	708.8	710.9	710.9	713.0	710.9	713.0
42.5°	638.5	642.8	638.5	644.9	642.8	642.8	644.9	644.9
45°	568.2	574.6	570.4	574.6	576.8	574.6	574.6	578.9
47.5°	502.2	506.5	504.4	506.5	506.5	506.5	506.5	510.8
50°	436.2	438.4	438.4	440.5	440.5	442.6	438.4	440.5
52.5°	370.4	374.6	374.6	374.6	372.5	374.6	374.6	374.6
55°	310.8	312.9	308.6	312.9	312.9	310.8	310.8	315.0
57.5°	253.2	253.2	253.2	253.2	253.2	251.1	253.2	253.2
60°	200.0	202.1	200.0	200.0	200.0	200.0	197.9	202.1
62.5°	155.4	155.4	153.2	155.4	155.4	155.4	157.5	157.5
65°	121.2	123.5	121.2	123.5	123.5	123.5	123.5	125.6
67.5°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
70°	72.4	72.4	72.4	74.5	72.4	72.4	72.4	74.5
72.5°	53.2	53.2	53.2	53.2	53.2	53.2	55.4	55.4
75°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
77.5°	25.5	25.5	25.5	27.6	25.5	27.6	25.5	25.5
80°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
82.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1
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)