

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: P252486

Luminaire Tested: **LE_6B30D010 EC6B30509030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252486
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 EC6B30509030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2678.7 lumens
Efficiency: N/A
Efficacy: 95.7 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

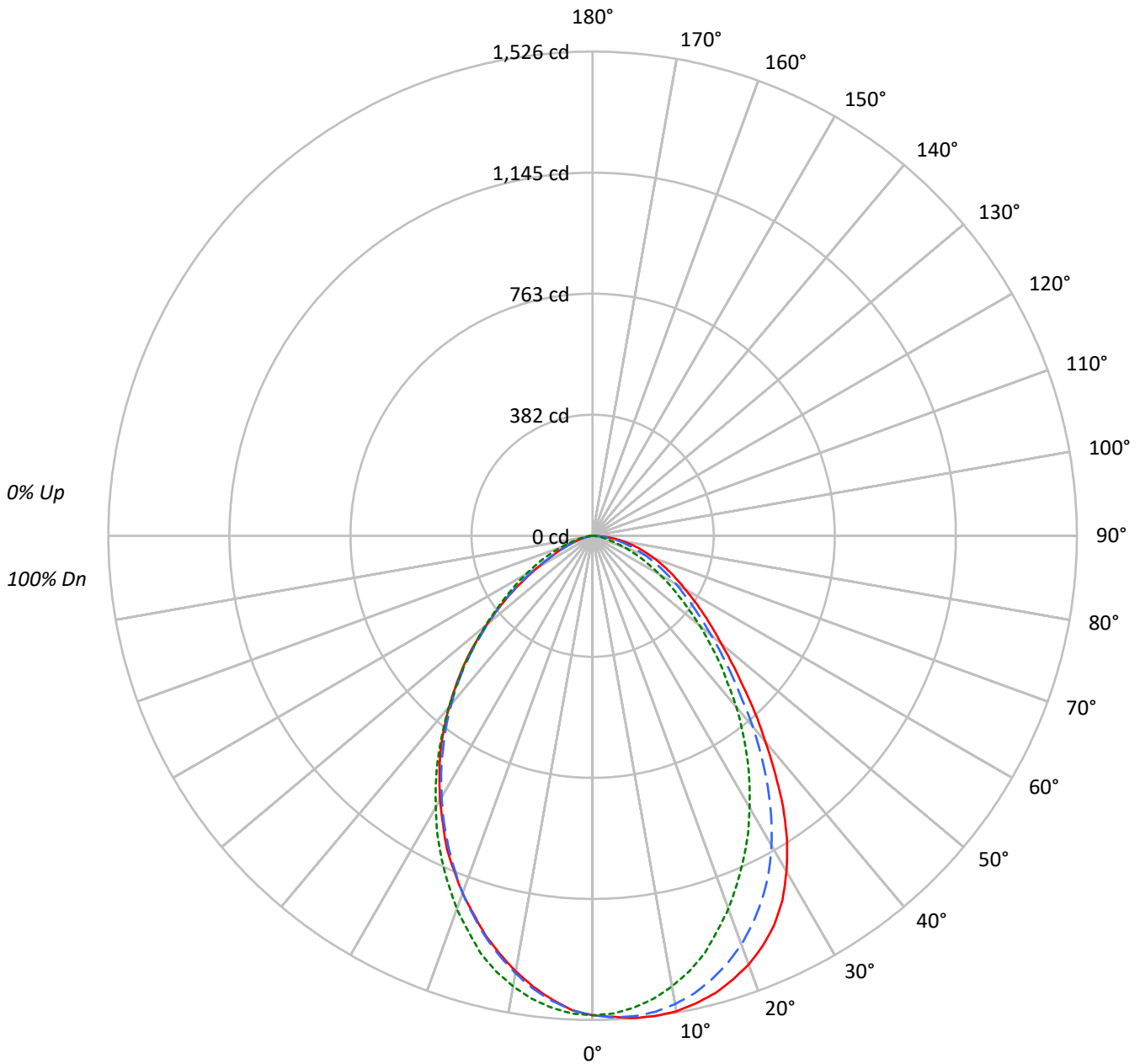
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	98592	98592	98592
5°	99931	97737	96080
10°	100815	95528	92322
15°	100800	92006	88034
20°	99823	86854	83209
25°	97453	80983	78262
30°	92027	74475	72410
35°	83419	67538	66702
40°	72042	60059	59880
45°	61771	52295	52674
50°	53681	44740	44100
55°	48227	37717	35329
60°	43829	31772	26018
65°	41140	26243	19127
70°	39257	20410	14020
75°	37558	14822	9528
80°	35504	10219	6312
85°	31439	6288	3144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	5.3
10°-20°	387.2	14.5
20°-30°	537.5	20.1
30°-40°	556.7	20.8
40°-50°	457.5	17.1
50°-60°	314.4	11.7
60°-70°	180.8	6.7
70°-80°	83.1	3.1
80°-90°	20.2	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°	1066.0	39.8
0°-40°	1622.7	60.6
0°-60°	2394.7	89.4
0°-90°	2678.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1511	1511	1511	1511	1511	
5°	1526	1520	1492	1471	1467	145
15°	1492	1448	1362	1308	1303	420
25°	1354	1264	1125	1077	1087	619
35°	1047	961	848	823	838	650
45°	670	619	567	560	571	521
55°	424	384	332	313	311	382
65°	266	233	170	120	124	265
75°	149	118	59	38	38	158
85°	42	29	8	4	4	47
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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1517.5	1530.1	1521.8	1519.6	1523.8	1523.8	1523.8	1517.5	1521.8	1515.4	1519.6
5°	1525.9	1536.4	1528.0	1523.8	1528.0	1530.1	1523.8	1519.6	1525.9	1517.5	1519.6
7.5°	1525.9	1536.4	1528.0	1525.9	1528.0	1528.0	1525.9	1517.5	1521.8	1513.2	1513.2
10°	1521.8	1530.1	1521.8	1517.5	1519.6	1517.5	1517.5	1507.0	1509.1	1498.6	1498.6
12.5°	1509.1	1519.6	1509.1	1504.9	1504.9	1504.9	1498.6	1490.2	1492.4	1479.8	1477.6
15°	1492.4	1500.8	1490.2	1486.0	1486.0	1483.9	1479.8	1467.1	1467.1	1454.5	1448.2
17.5°	1467.1	1475.5	1467.1	1460.9	1458.8	1454.5	1450.4	1437.8	1433.5	1418.9	1412.6
20°	1437.8	1444.0	1435.6	1429.4	1425.1	1421.0	1412.6	1400.0	1395.8	1381.1	1370.6
22.5°	1400.0	1408.4	1395.8	1389.5	1385.2	1379.0	1370.6	1358.0	1351.8	1332.8	1320.2
25°	1353.8	1358.0	1347.5	1341.2	1332.8	1328.6	1322.2	1305.5	1299.2	1278.2	1263.5
27.5°	1295.0	1299.2	1286.6	1282.4	1271.9	1267.8	1259.4	1244.6	1236.2	1215.2	1200.6
30°	1221.6	1225.8	1217.4	1211.1	1202.6	1194.2	1188.0	1173.2	1160.8	1139.8	1127.1
32.5°	1139.8	1146.0	1137.6	1129.2	1114.5	1116.6	1106.1	1091.4	1080.9	1062.0	1047.4
35°	1047.4	1051.5	1041.0	1039.0	1030.5	1022.1	1011.6	1001.1	994.9	973.9	961.2
37.5°	944.5	955.0	944.5	936.1	931.9	925.6	919.4	904.6	900.4	887.9	871.0
40°	845.9	852.1	845.9	837.5	831.1	831.1	822.8	814.4	803.9	791.2	785.0
42.5°	757.8	753.5	751.4	747.2	738.9	736.8	734.6	724.1	717.9	705.2	694.8
45°	669.5	671.6	667.5	665.4	659.0	654.9	650.6	642.2	640.1	627.6	619.1
47.5°	596.1	594.0	589.8	589.8	585.6	581.4	577.2	570.9	568.8	558.2	549.9
50°	528.9	531.0	528.9	526.9	520.5	518.4	514.2	510.0	505.9	495.4	487.0
52.5°	474.4	472.2	470.1	470.1	463.9	461.8	457.5	453.4	449.1	438.6	432.4
55°	424.0	424.0	421.9	419.8	413.5	411.4	409.2	405.1	398.8	390.4	384.1
57.5°	377.8	377.8	375.8	373.6	369.4	369.4	365.2	361.0	356.9	348.4	340.0
60°	335.9	337.9	335.9	333.8	329.5	329.5	327.4	321.1	319.0	308.5	302.2
62.5°	300.1	300.1	300.1	298.0	296.0	291.8	291.8	285.5	281.2	275.0	266.5
65°	266.5	266.5	266.5	264.5	260.2	258.1	256.1	251.9	247.6	241.4	233.0
67.5°	235.1	235.1	235.1	233.0	228.8	226.6	224.6	222.5	216.1	209.9	201.5
70°	205.8	205.8	203.6	201.5	199.4	197.2	195.2	191.0	186.8	178.4	172.1
72.5°	176.2	176.2	176.2	172.1	170.0	170.0	165.9	163.8	159.5	151.1	144.9
75°	149.0	146.9	146.9	144.9	142.8	140.6	138.5	136.4	130.1	125.9	117.5
77.5°	121.8	121.8	119.6	117.5	117.5	115.5	113.4	109.1	107.0	100.8	94.5
80°	94.5	94.5	94.5	94.5	92.4	90.2	90.2	86.0	84.0	77.6	73.5
82.5°	71.4	69.2	69.2	69.2	67.1	65.1	65.1	63.0	60.9	56.6	52.5
85°	42.0	39.9	39.9	39.9	37.8	37.8	35.6	35.6	33.6	29.4	29.4
87.5°	12.6	12.6	14.8	14.8	12.6	12.6	12.6	12.6	12.6	10.5	10.5
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°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1515.4	1521.8	1513.2	1511.2	1519.6	1515.4	1513.2	1509.1	1511.2	1507.0	1500.8
5°	1513.2	1521.8	1511.2	1504.9	1515.4	1509.1	1504.9	1500.8	1500.8	1492.4	1488.1
7.5°	1507.0	1511.2	1500.8	1494.4	1500.8	1494.4	1490.2	1483.9	1481.9	1471.4	1465.0
10°	1490.2	1494.4	1481.9	1473.4	1479.8	1471.4	1465.0	1458.8	1454.5	1442.0	1433.5
12.5°	1467.1	1469.2	1454.5	1444.0	1448.2	1442.0	1431.5	1423.0	1418.9	1406.2	1395.8
15°	1435.6	1437.8	1421.0	1406.2	1410.5	1402.1	1389.5	1381.1	1374.8	1362.2	1347.5
17.5°	1397.9	1395.8	1376.9	1362.2	1364.2	1353.8	1341.2	1328.6	1320.2	1305.5	1295.0
20°	1355.9	1349.6	1328.6	1311.9	1313.9	1301.4	1286.6	1274.0	1263.5	1251.0	1236.2
22.5°	1303.4	1295.0	1276.1	1255.1	1257.2	1246.8	1225.8	1215.2	1204.8	1188.0	1175.4
25°	1246.8	1234.1	1215.2	1194.2	1194.2	1181.6	1164.9	1152.2	1141.8	1125.0	1110.4
27.5°	1179.6	1173.2	1148.1	1131.2	1129.2	1116.6	1101.9	1087.2	1074.6	1060.0	1045.2
30°	1106.1	1095.6	1076.8	1057.9	1053.6	1043.1	1028.5	1011.6	1003.2	988.6	976.0
32.5°	1028.5	1018.0	997.0	978.1	976.0	967.6	955.0	938.2	929.9	919.4	910.9
35°	940.2	936.1	915.1	900.4	900.4	892.0	879.5	864.8	858.5	848.0	837.5
37.5°	856.4	850.0	831.1	818.6	818.6	808.1	795.5	789.2	782.9	774.5	768.2
40°	768.2	764.0	749.2	736.8	738.9	730.4	722.0	713.6	709.4	705.2	698.9
42.5°	686.4	682.1	671.6	661.1	661.1	654.9	646.5	640.1	636.0	629.6	627.6
45°	612.9	606.6	598.2	587.8	587.8	581.4	577.2	573.0	570.9	566.8	560.4
47.5°	541.5	537.4	528.9	518.4	518.4	518.4	510.0	503.8	503.8	499.5	497.5
50°	480.6	474.4	468.0	459.6	459.6	455.5	449.1	442.9	442.9	440.8	436.6
52.5°	424.0	419.8	411.4	403.0	403.0	398.8	392.5	390.4	388.2	382.0	379.9
55°	375.8	371.5	365.2	354.8	352.6	350.5	344.2	340.0	337.9	331.6	331.6
57.5°	331.6	327.4	316.9	310.6	308.5	304.4	298.0	293.9	291.8	287.5	283.4
60°	293.9	287.5	279.1	270.8	268.6	264.5	258.1	254.0	251.9	243.5	239.2
62.5°	258.1	251.9	243.5	235.1	233.0	228.8	220.4	216.1	212.0	203.6	199.4
65°	224.6	218.2	209.9	201.5	197.2	195.2	186.8	180.5	176.2	170.0	161.6
67.5°	193.1	186.8	178.4	167.9	167.9	161.6	155.4	149.0	142.8	136.4	130.1
70°	163.8	157.4	149.0	140.6	138.5	134.4	128.0	119.6	115.5	107.0	100.8
72.5°	136.4	130.1	121.8	113.4	111.2	107.0	100.8	92.4	86.0	79.8	73.5
75°	111.2	105.0	96.5	90.2	88.1	84.0	77.6	69.2	63.0	58.8	52.5
77.5°	88.1	81.9	75.5	69.2	67.1	63.0	56.6	52.5	46.1	42.0	35.6
80°	67.1	63.0	56.6	52.5	50.4	46.1	42.0	35.6	31.5	27.2	25.1
82.5°	48.2	44.1	39.9	33.6	33.6	29.4	27.2	23.1	18.9	16.8	14.8
85°	27.2	23.1	21.0	18.9	16.8	16.8	14.8	12.6	10.5	8.4	8.4
87.5°	8.4	8.4	6.2	6.2	6.2	6.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1500.8	1502.9	1498.6	1502.9	1498.6	1500.8	1496.5	1500.8	1496.5	1500.8	1492.4
5°	1486.0	1486.0	1479.8	1483.9	1479.8	1481.9	1473.4	1475.5	1471.4	1475.5	1467.1
7.5°	1460.9	1462.9	1452.5	1456.6	1450.4	1450.4	1444.0	1446.1	1439.9	1442.0	1435.6
10°	1431.5	1429.4	1418.9	1423.0	1414.6	1414.6	1408.4	1408.4	1400.0	1402.1	1393.6
12.5°	1389.5	1387.4	1374.8	1379.0	1370.6	1370.6	1364.2	1364.2	1355.9	1360.1	1351.8
15°	1341.2	1339.1	1326.5	1328.6	1320.2	1320.2	1311.9	1313.9	1307.6	1311.9	1303.4
17.5°	1286.6	1284.5	1271.9	1274.0	1263.5	1265.6	1259.4	1257.2	1253.0	1255.1	1248.9
20°	1230.0	1225.8	1213.1	1215.2	1211.1	1204.8	1200.6	1202.6	1198.5	1202.6	1196.4
22.5°	1171.2	1162.8	1152.2	1152.2	1148.1	1148.1	1141.8	1146.0	1137.6	1143.9	1139.8
25°	1104.0	1097.8	1089.4	1093.5	1085.1	1085.1	1078.9	1080.9	1076.8	1080.9	1076.8
27.5°	1039.0	1034.8	1022.1	1026.4	1020.1	1022.1	1015.9	1018.0	1015.9	1020.1	1015.9
30°	969.8	967.6	959.2	959.2	957.1	955.0	952.9	952.9	950.8	957.1	952.9
32.5°	904.6	898.4	889.9	896.2	885.8	892.0	887.9	892.0	887.9	892.0	889.9
35°	837.5	835.4	824.9	827.0	824.9	824.9	822.8	822.8	822.8	829.1	829.1
37.5°	766.1	764.0	757.8	759.8	755.6	753.5	753.5	757.8	757.8	761.9	761.9
40°	696.9	698.9	692.6	692.6	690.5	690.5	690.5	694.8	692.6	696.9	694.8
42.5°	627.6	627.6	621.2	623.4	621.2	623.4	623.4	627.6	627.6	629.6	627.6
45°	562.5	562.5	560.4	562.5	558.2	560.4	558.2	562.5	560.4	562.5	562.5
47.5°	497.5	497.5	497.5	495.4	495.4	495.4	495.4	495.4	493.2	497.5	495.4
50°	436.6	438.6	436.6	436.6	434.5	436.6	434.5	434.5	430.2	432.4	432.4
52.5°	382.0	382.0	377.8	377.8	377.8	375.8	375.8	375.8	373.6	373.6	369.4
55°	329.5	329.5	325.4	325.4	323.2	321.1	319.0	319.0	312.8	312.8	306.5
57.5°	281.2	279.1	272.9	272.9	268.6	266.5	264.5	262.4	258.1	254.0	251.9
60°	237.1	233.0	228.8	226.6	222.5	218.2	214.1	209.9	205.8	203.6	201.5
62.5°	195.2	188.9	184.8	182.6	178.4	172.1	167.9	163.8	159.5	157.4	153.2
65°	157.4	151.1	144.9	142.8	138.5	134.4	128.0	123.9	119.6	117.5	117.5
67.5°	123.9	117.5	109.1	109.1	105.0	100.8	96.5	92.4	90.2	92.4	92.4
70°	92.4	88.1	81.9	79.8	75.5	71.4	69.2	69.2	69.2	71.4	69.2
72.5°	69.2	63.0	58.8	56.6	54.6	52.5	52.5	52.5	50.4	52.5	52.5
75°	48.2	44.1	39.9	39.9	37.8	37.8	37.8	37.8	37.8	37.8	37.8
77.5°	33.6	29.4	27.2	27.2	27.2	25.1	25.1	25.1	25.1	25.1	25.1
80°	21.0	21.0	18.9	18.9	16.8	16.8	16.8	16.8	16.8	16.8	16.8
82.5°	12.6	12.6	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
85°	6.2	6.2	6.2	6.2	6.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	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: P252486

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1492.4	1498.6	1490.2	1496.5	1494.4	1492.4	1488.1	1496.5
5°	1467.1	1469.2	1460.9	1469.2	1467.1	1462.9	1458.8	1467.1
7.5°	1431.5	1437.8	1427.2	1435.6	1433.5	1429.4	1425.1	1433.5
10°	1391.6	1397.9	1389.5	1395.8	1395.8	1391.6	1385.2	1393.6
12.5°	1347.5	1351.8	1343.2	1351.8	1349.6	1345.4	1343.2	1349.6
15°	1299.2	1305.5	1297.1	1303.4	1301.4	1299.2	1297.1	1303.4
17.5°	1246.8	1253.0	1246.8	1253.0	1253.0	1246.8	1244.6	1248.9
20°	1194.2	1198.5	1192.1	1198.5	1196.4	1196.4	1192.1	1198.5
22.5°	1135.5	1141.8	1137.6	1141.8	1139.8	1139.8	1137.6	1141.8
25°	1076.8	1083.0	1076.8	1083.0	1080.9	1080.9	1076.8	1087.2
27.5°	1018.0	1022.1	1015.9	1024.2	1022.1	1018.0	1020.1	1022.1
30°	955.0	959.2	955.0	961.2	961.2	961.2	957.1	961.2
32.5°	892.0	898.4	892.0	898.4	896.2	896.2	894.1	898.4
35°	829.1	831.1	827.0	833.2	833.2	835.4	831.1	837.5
37.5°	764.0	766.1	764.0	766.1	770.2	764.0	768.2	770.2
40°	696.9	701.0	698.9	701.0	701.0	703.1	701.0	703.1
42.5°	629.6	633.9	629.6	636.0	633.9	633.9	636.0	636.0
45°	560.4	566.8	562.5	566.8	568.8	566.8	566.8	570.9
47.5°	495.4	499.5	497.5	499.5	499.5	499.5	499.5	503.8
50°	430.2	432.4	432.4	434.5	434.5	436.6	432.4	434.5
52.5°	365.2	369.4	369.4	369.4	367.2	369.4	369.4	369.4
55°	306.5	308.5	304.4	308.5	308.5	306.5	306.5	310.6
57.5°	249.8	249.8	249.8	249.8	249.8	247.6	249.8	249.8
60°	197.2	199.4	197.2	197.2	197.2	197.2	195.2	199.4
62.5°	153.2	153.2	151.1	153.2	153.2	153.2	155.4	155.4
65°	119.6	121.8	119.6	121.8	121.8	121.8	121.8	123.9
67.5°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
70°	71.4	71.4	71.4	73.5	71.4	71.4	71.4	73.5
72.5°	52.5	52.5	52.5	52.5	52.5	52.5	54.6	54.6
75°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
77.5°	25.1	25.1	25.1	27.2	25.1	27.2	25.1	25.1
80°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
82.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
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)