

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: io LED

Report Number: P252271

Luminaire Tested: **LD6B30D010 EU6B30508027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252271
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: io LED
Catalog Number: LD6B30D010 EU6B30508027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2613.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

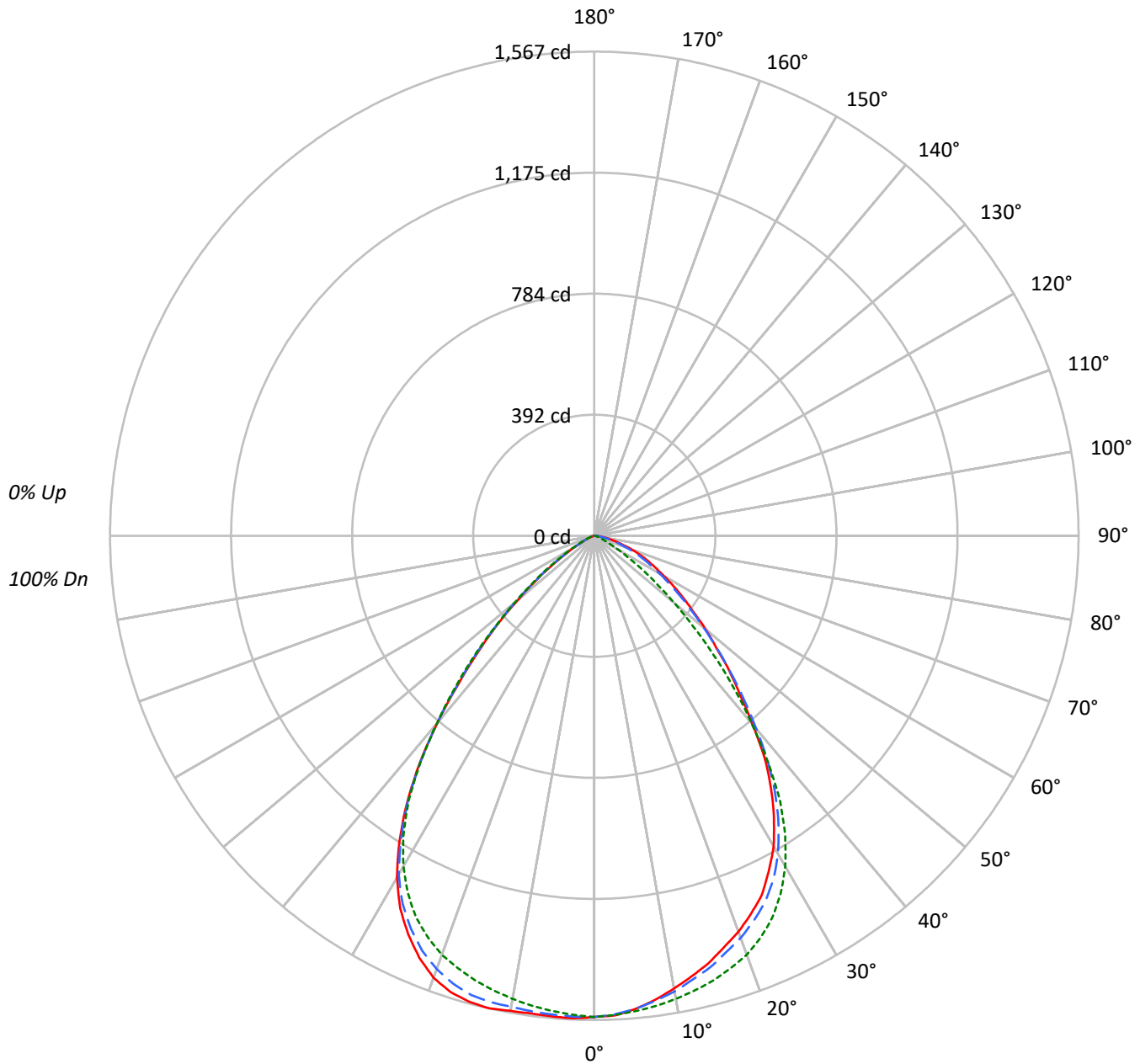
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64		
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58		
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	101612	101612	101612
5°	100645	101136	102249
10°	98569	100815	103432
15°	96686	100624	105453
20°	94685	100170	105655
25°	92350	98173	102507
30°	87432	93097	96216
35°	79405	83443	84192
40°	67766	67443	67128
45°	56927	50505	48946
50°	47541	34174	32459
55°	40015	20963	19041
60°	33873	11039	9577
65°	29331	5804	4647
70°	24397	3586	2518
75°	18023	2369	1412
80°	14127	1428	714
85°	11228	1422	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	5.6
10°-20°	420.3	16.1
20°-30°	620.6	23.8
30°-40°	639.6	24.5
40°-50°	441.8	16.9
50°-60°	217.7	8.3
60°-70°	88.2	3.4
70°-80°	31.4	1.2
80°-90°	6.5	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°	1187.7	45.5
0°-40°	1827.3	69.9
0°-60°	2486.8	95.2
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1558	1558	1558	1558	1558	
5°	1537	1537	1544	1556	1561	145
15°	1432	1446	1490	1539	1561	403
25°	1283	1307	1364	1403	1424	586
35°	997	1021	1048	1053	1057	618
45°	617	621	547	540	530	477
55°	352	339	184	173	167	318
65°	190	171	38	30	30	189
75°	72	60	9	6	6	80
85°	15	11	2	0	0	18
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°	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5
2.5°	1553.7	1548.1	1551.9	1544.3	1553.7	1544.3	1546.2	1548.1	1546.2	1548.1	1550.0
5°	1536.8	1531.2	1536.8	1527.4	1536.8	1531.2	1531.2	1533.1	1533.1	1534.9	1536.8
7.5°	1514.2	1508.6	1514.2	1504.8	1516.1	1510.5	1510.5	1514.2	1512.4	1514.2	1518.0
10°	1487.9	1480.4	1486.0	1480.4	1491.7	1484.1	1487.9	1487.9	1487.9	1493.6	1497.3
12.5°	1459.7	1452.2	1459.7	1450.3	1461.6	1455.9	1457.8	1463.5	1465.3	1469.1	1471.0
15°	1431.5	1422.1	1425.8	1420.2	1431.5	1425.8	1427.7	1435.2	1435.2	1440.9	1446.5
17.5°	1395.7	1388.2	1395.7	1388.2	1397.6	1393.9	1397.6	1403.3	1403.3	1408.9	1414.5
20°	1363.8	1356.2	1361.9	1356.2	1367.5	1361.9	1363.8	1371.3	1373.2	1378.8	1384.5
22.5°	1324.3	1318.6	1322.4	1316.7	1328.0	1324.3	1326.1	1333.7	1335.5	1339.3	1348.7
25°	1282.9	1271.6	1277.2	1273.5	1284.8	1279.1	1282.9	1290.4	1294.2	1299.8	1307.3
27.5°	1222.7	1217.0	1220.8	1220.8	1230.2	1224.6	1226.4	1234.0	1239.6	1245.3	1254.7
30°	1160.6	1151.2	1155.0	1156.8	1164.4	1160.6	1164.4	1171.9	1173.8	1181.3	1188.8
32.5°	1081.6	1077.8	1085.4	1081.6	1085.4	1085.4	1087.2	1092.9	1096.7	1100.4	1109.8
35°	997.0	989.4	997.0	993.2	1002.6	997.0	1002.6	1008.2	1008.2	1015.8	1021.4
37.5°	904.8	895.4	899.1	899.1	902.9	901.0	901.0	910.4	912.3	918.0	923.6
40°	795.7	791.9	799.4	797.6	799.4	799.4	801.3	807.0	810.7	812.6	814.5
42.5°	697.9	699.8	701.6	701.6	701.6	701.6	701.6	709.2	707.3	712.9	714.8
45°	617.0	609.5	613.2	611.3	617.0	611.3	617.0	622.6	618.9	624.5	620.7
47.5°	534.2	534.2	534.2	532.3	536.1	534.2	538.0	539.9	539.9	539.9	538.0
50°	468.4	462.7	464.6	464.6	466.5	464.6	468.4	470.3	470.3	466.5	459.0
52.5°	404.4	402.5	402.5	406.3	406.3	404.4	404.4	404.4	404.4	398.8	395.0
55°	351.8	348.0	349.9	349.9	349.9	349.9	351.8	349.9	349.9	344.2	338.6
57.5°	304.7	301.0	301.0	301.0	302.8	301.0	301.0	301.0	299.1	293.4	285.9
60°	259.6	257.7	259.6	259.6	261.5	259.6	259.6	259.6	255.8	250.2	242.7
62.5°	222.0	222.0	222.0	223.8	223.8	222.0	222.0	220.1	218.2	210.7	203.2
65°	190.0	188.1	190.0	190.0	191.9	191.9	190.0	188.1	186.2	178.7	171.2
67.5°	158.0	156.1	158.0	158.0	159.9	158.0	158.0	158.0	152.4	148.6	141.1
70°	127.9	126.0	126.0	126.0	127.9	124.1	126.0	126.0	122.3	116.6	109.1
72.5°	97.8	97.8	97.8	97.8	97.8	97.8	95.9	95.9	92.2	86.5	82.8
75°	71.5	71.5	73.4	73.4	71.5	71.5	71.5	69.6	67.7	64.0	60.2
77.5°	52.7	52.7	52.7	52.7	50.8	50.8	50.8	48.9	47.0	45.1	41.4
80°	37.6	37.6	37.6	35.7	37.6	35.7	35.7	35.7	32.0	30.1	28.2
82.5°	26.3	24.5	24.5	24.5	24.5	24.5	24.5	22.6	22.6	20.7	18.8
85°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	13.2	11.3	11.3
87.5°	7.5	9.4	9.4	9.4	9.4	9.4	9.4	7.5	7.5	7.5	5.6
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°	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5
2.5°	1550.0	1550.0	1553.7	1548.1	1557.5	1551.9	1550.0	1559.4	1553.7	1551.9	1555.6
5°	1536.8	1538.7	1540.6	1536.8	1546.2	1540.6	1540.6	1550.0	1546.2	1544.3	1550.0
7.5°	1519.9	1521.8	1525.5	1523.6	1531.2	1527.4	1529.3	1538.7	1534.9	1534.9	1540.6
10°	1499.2	1503.0	1506.7	1506.7	1516.1	1512.4	1512.4	1523.6	1519.9	1521.8	1529.3
12.5°	1474.7	1480.4	1486.0	1487.9	1497.3	1491.7	1493.6	1506.7	1504.8	1506.7	1514.2
15°	1448.4	1455.9	1461.6	1461.6	1472.9	1467.2	1472.9	1486.0	1482.3	1489.8	1499.2
17.5°	1418.3	1425.8	1433.4	1435.2	1446.5	1442.8	1450.3	1463.5	1463.5	1467.2	1478.5
20°	1390.1	1399.5	1403.3	1408.9	1420.2	1418.3	1422.1	1437.1	1437.1	1442.8	1454.1
22.5°	1352.5	1361.9	1369.4	1375.0	1384.5	1384.5	1390.1	1403.3	1403.3	1407.0	1418.3
25°	1311.1	1322.4	1328.0	1333.7	1343.1	1341.2	1346.8	1358.1	1360.0	1363.8	1375.0
27.5°	1258.4	1267.8	1275.4	1279.1	1292.3	1284.8	1290.4	1303.6	1301.7	1305.4	1314.9
30°	1192.6	1202.0	1209.5	1209.5	1220.8	1220.8	1226.4	1232.1	1232.1	1235.8	1243.4
32.5°	1115.5	1126.7	1126.7	1132.4	1139.9	1132.4	1139.9	1147.4	1143.7	1149.3	1155.0
35°	1027.1	1032.7	1034.6	1034.6	1040.2	1038.3	1036.5	1042.1	1038.3	1047.7	1053.4
37.5°	919.8	927.4	923.6	927.4	925.5	919.8	919.8	929.2	921.7	923.6	929.2
40°	816.4	816.4	814.5	805.1	807.0	801.3	799.4	801.3	793.8	791.9	799.4
42.5°	709.2	707.3	701.6	688.5	690.3	680.9	673.4	673.4	669.7	667.8	669.7
45°	613.2	607.6	598.2	583.1	579.4	571.8	556.8	553.0	547.4	547.4	549.3
47.5°	524.8	517.3	502.2	485.3	475.9	466.5	451.5	445.8	436.4	432.6	436.4
50°	451.5	438.3	419.5	395.0	385.6	374.3	359.3	349.9	340.5	336.7	334.8
52.5°	383.7	364.9	346.1	316.0	308.5	297.2	276.5	267.1	257.7	250.2	250.2
55°	325.4	308.5	282.2	253.9	242.7	231.4	210.7	197.5	188.1	184.3	180.6
57.5°	272.8	253.9	229.5	199.4	188.1	176.8	156.1	143.0	133.6	127.9	124.1
60°	229.5	208.8	184.3	158.0	144.8	133.6	112.9	99.7	90.3	84.6	80.9
62.5°	188.1	171.2	146.7	122.3	111.0	99.7	82.8	69.6	60.2	56.4	50.8
65°	158.0	141.1	118.5	97.8	88.4	77.1	62.1	50.8	43.3	37.6	33.9
67.5°	127.9	114.7	95.9	77.1	67.7	60.2	47.0	37.6	30.1	26.3	24.5
70°	101.6	88.4	73.4	58.3	52.7	45.1	35.7	26.3	22.6	18.8	16.9
72.5°	75.2	65.8	54.6	43.3	37.6	33.9	24.5	20.7	15.0	13.2	11.3
75°	54.6	47.0	39.5	30.1	26.3	24.5	18.8	13.2	11.3	9.4	7.5
77.5°	37.6	33.9	26.3	20.7	18.8	16.9	13.2	9.4	7.5	5.6	5.6
80°	24.5	20.7	16.9	13.2	13.2	11.3	7.5	5.6	5.6	3.8	3.8
82.5°	15.0	13.2	11.3	9.4	7.5	7.5	5.6	3.8	3.8	1.9	1.9
85°	9.4	7.5	5.6	5.6	3.8	3.8	3.8	1.9	1.9	1.9	1.9
87.5°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	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°	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5
2.5°	1555.6	1555.6	1559.4	1553.7	1557.5	1557.5	1561.3	1553.7	1557.5	1559.4	1563.2
5°	1548.1	1550.0	1553.7	1551.9	1553.7	1553.7	1557.5	1548.1	1555.6	1555.6	1561.3
7.5°	1540.6	1540.6	1544.3	1542.5	1546.2	1548.1	1551.9	1544.3	1551.9	1551.9	1557.5
10°	1531.2	1531.2	1536.8	1534.9	1540.6	1542.5	1548.1	1540.6	1548.1	1550.0	1555.6
12.5°	1518.0	1519.9	1525.5	1525.5	1531.2	1534.9	1540.6	1536.8	1546.2	1548.1	1555.6
15°	1503.0	1506.7	1514.2	1512.4	1518.0	1523.6	1531.2	1525.5	1538.7	1542.5	1550.0
17.5°	1484.1	1487.9	1493.6	1493.6	1499.2	1503.0	1512.4	1508.6	1519.9	1521.8	1531.2
20°	1455.9	1461.6	1469.1	1467.2	1472.9	1476.6	1484.1	1480.4	1491.7	1495.4	1504.8
22.5°	1422.1	1425.8	1431.5	1431.5	1437.1	1440.9	1448.4	1442.8	1454.1	1455.9	1463.5
25°	1376.9	1380.7	1384.5	1386.3	1392.0	1393.9	1397.6	1393.9	1403.3	1405.1	1414.5
27.5°	1318.6	1320.5	1326.1	1326.1	1329.9	1331.8	1337.4	1329.9	1343.1	1343.1	1348.7
30°	1249.0	1247.1	1254.7	1250.9	1254.7	1254.7	1260.3	1256.5	1265.9	1262.2	1267.8
32.5°	1156.8	1160.6	1160.6	1156.8	1164.4	1162.5	1162.5	1158.7	1164.4	1166.3	1170.0
35°	1049.6	1055.3	1055.3	1057.1	1059.0	1053.4	1055.3	1044.0	1053.4	1055.3	1057.1
37.5°	933.0	927.4	931.1	925.5	934.9	923.6	923.6	916.1	923.6	923.6	925.5
40°	799.4	797.6	801.3	797.6	795.7	793.8	790.0	784.4	791.9	788.2	793.8
42.5°	673.4	671.5	671.5	667.8	665.9	665.9	662.1	658.4	656.5	656.5	665.9
45°	543.6	547.4	543.6	541.7	545.5	541.7	543.6	536.1	539.9	536.1	539.9
47.5°	434.5	436.4	432.6	428.9	434.5	428.9	428.9	423.2	430.8	430.8	427.0
50°	336.7	334.8	331.1	334.8	332.9	332.9	332.9	327.3	331.1	325.4	329.2
52.5°	248.3	246.4	246.4	244.5	246.4	244.5	244.5	242.7	242.7	240.8	242.7
55°	180.6	178.7	174.9	174.9	174.9	176.8	174.9	173.1	173.1	171.2	173.1
57.5°	122.3	118.5	118.5	118.5	118.5	116.6	116.6	114.7	116.6	114.7	116.6
60°	79.0	79.0	75.2	75.2	75.2	75.2	75.2	73.4	75.2	75.2	75.2
62.5°	48.9	48.9	47.0	45.1	47.0	45.1	45.1	45.1	47.0	45.1	47.0
65°	32.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
67.5°	22.6	20.7	20.7	20.7	20.7	20.7	20.7	18.8	20.7	20.7	20.7
70°	15.0	15.0	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
75°	7.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	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	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P252271

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5	1557.5
2.5°	1557.5	1559.4	1555.6	1557.5	1553.7	1557.5	1559.4	1563.2
5°	1553.7	1555.6	1551.9	1555.6	1551.9	1555.6	1557.5	1561.3
7.5°	1550.0	1553.7	1550.0	1553.7	1550.0	1553.7	1555.6	1559.4
10°	1550.0	1555.6	1551.9	1557.5	1551.9	1555.6	1559.4	1561.3
12.5°	1550.0	1555.6	1553.7	1557.5	1555.6	1559.4	1563.2	1566.9
15°	1546.2	1551.9	1548.1	1553.7	1551.9	1553.7	1561.3	1561.3
17.5°	1525.5	1531.2	1531.2	1534.9	1534.9	1540.6	1544.3	1548.1
20°	1499.2	1504.8	1503.0	1508.6	1508.6	1514.2	1518.0	1521.8
22.5°	1459.7	1467.2	1465.3	1471.0	1469.1	1472.9	1480.4	1478.5
25°	1408.9	1418.3	1416.4	1420.2	1418.3	1418.3	1422.1	1424.0
27.5°	1346.8	1352.5	1350.6	1354.4	1350.6	1354.4	1358.1	1360.0
30°	1265.9	1269.7	1267.8	1269.7	1267.8	1271.6	1273.5	1277.2
32.5°	1168.1	1173.8	1168.1	1171.9	1170.0	1170.0	1177.5	1173.8
35°	1051.5	1053.4	1055.3	1055.3	1051.5	1053.4	1057.1	1057.1
37.5°	921.7	931.1	919.8	925.5	923.6	923.6	923.6	929.2
40°	786.3	788.2	784.4	784.4	784.4	782.5	790.0	788.2
42.5°	658.4	660.2	658.4	652.7	654.6	654.6	660.2	652.7
45°	534.2	538.0	536.1	536.1	532.3	532.3	534.2	530.5
47.5°	423.2	427.0	421.4	423.2	419.5	423.2	421.4	425.1
50°	321.7	325.4	323.5	325.4	325.4	321.7	327.3	319.8
52.5°	240.8	242.7	240.8	238.9	237.0	237.0	240.8	238.9
55°	171.2	169.3	169.3	169.3	171.2	171.2	169.3	167.4
57.5°	114.7	114.7	112.9	112.9	114.7	111.0	112.9	111.0
60°	73.4	73.4	73.4	73.4	71.5	73.4	73.4	73.4
62.5°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
65°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
67.5°	18.8	20.7	20.7	20.7	18.8	18.8	18.8	18.8
70°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
75°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	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)