

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: P212816

Luminaire Tested: **LD6B30D010 EU6B30509030 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509030 6LBSWL1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2411.4 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

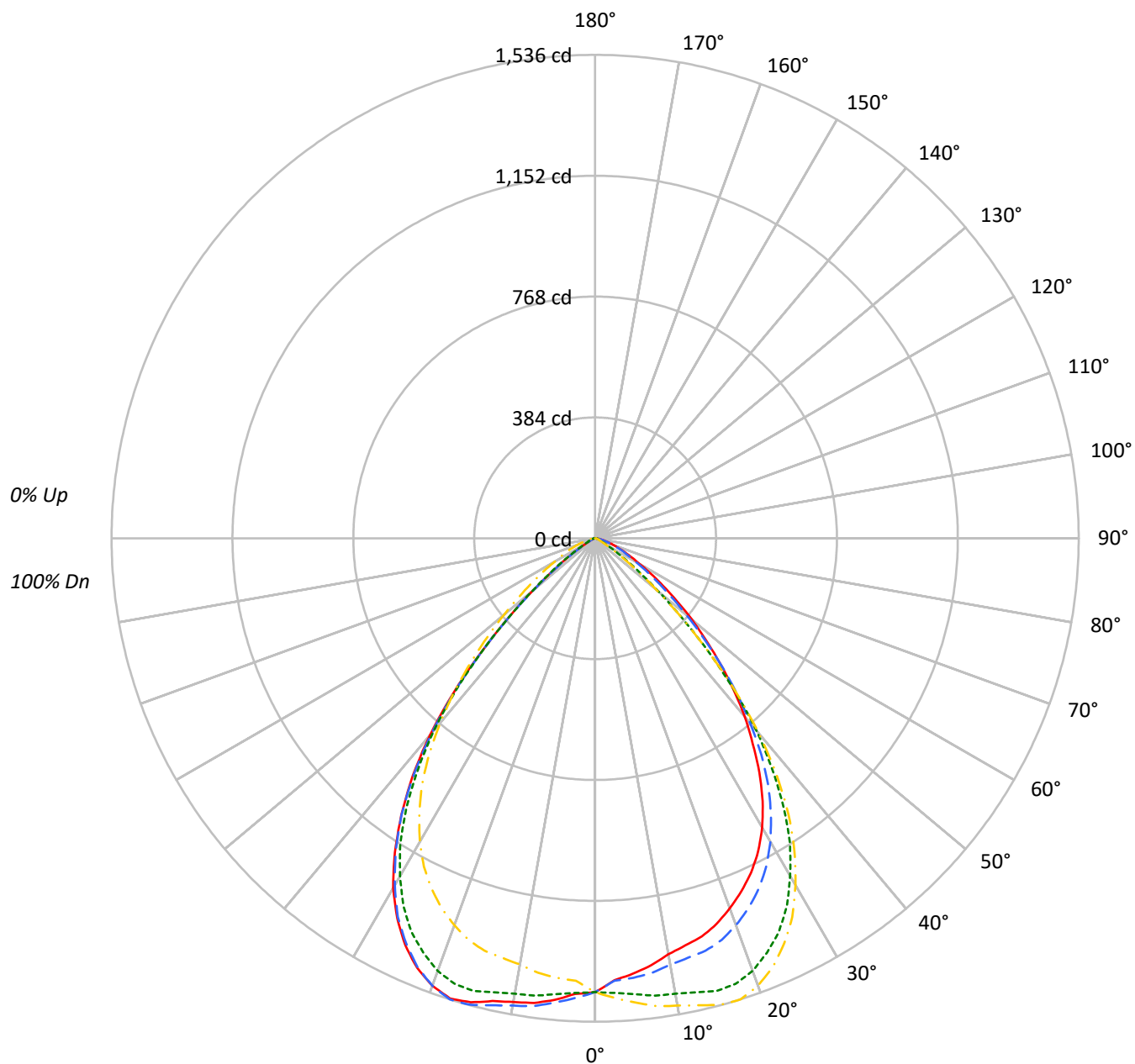
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	79067	79067	79067	79067
5°	76414	80019	81031	80019
10°	74681	81784	83276	81784
15°	74331	84524	86624	84524
20°	72976	85320	88254	85320
25°	70891	83485	86328	83485
30°	67175	78436	81202	78436
35°	60900	69894	71802	69894
40°	52870	56957	58395	56957
45°	43346	39314	39570	39314
50°	34080	22055	21620	22055
55°	25194	10915	9787	10915
60°	17860	4791	3498	4791
65°	13283	3048	2179	3048
70°	9681	2420	1619	2420
75°	7117	1779	1059	1779
80°	4767	1578	537	1578
85°	3145	1069	1069	1069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	5.7
10°-20°	408.9	17.0
20°-30°	610.3	25.3
30°-40°	627.0	26.0
40°-50°	406.0	16.8
50°-60°	151.0	6.3
60°-70°	49.5	2.1
70°-80°	17.5	0.7
80°-90°	3.2	0.1
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°	1157.3	48.0
0°-40°	1784.3	74.0
0°-60°	2341.3	97.1
0°-90°	2411.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1442	1442	1442	1442	1442	
5°	1389	1454	1472	1454	1389	131
15°	1310	1489	1526	1489	1310	368
25°	1172	1380	1427	1380	1172	537
35°	910	1044	1073	1044	910	565
45°	559	507	510	507	559	432
55°	264	114	102	114	264	240
65°	102	24	17	24	102	104
75°	34	8	5	8	34	37
85°	5	2	2	2	5	7
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°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1405.4	1425.5	1412.1	1420.5	1407.0	1407.0	1433.9	1418.8	1430.6	1418.8	1407.0
5°	1388.6	1413.8	1397.0	1405.4	1393.6	1395.3	1420.5	1408.7	1420.5	1412.1	1402.0
7.5°	1368.4	1393.6	1378.5	1386.9	1375.1	1378.5	1405.4	1393.6	1407.0	1398.6	1391.9
10°	1341.6	1368.4	1355.0	1363.4	1353.3	1355.0	1381.9	1373.5	1385.2	1380.2	1375.1
12.5°	1324.8	1350.0	1334.8	1343.2	1336.5	1339.9	1365.1	1358.4	1373.5	1368.4	1365.1
15°	1309.7	1333.2	1319.7	1328.1	1323.1	1324.8	1351.6	1344.9	1361.7	1358.4	1356.7
17.5°	1284.5	1309.7	1294.5	1304.6	1299.6	1301.3	1328.1	1323.1	1339.9	1339.9	1338.2
20°	1250.9	1276.1	1264.3	1271.0	1267.7	1271.0	1294.5	1291.2	1308.0	1308.0	1308.0
22.5°	1214.0	1239.1	1225.7	1232.4	1229.1	1234.1	1255.9	1255.9	1269.4	1271.0	1272.7
25°	1172.0	1197.2	1183.7	1192.1	1188.8	1192.1	1212.3	1214.0	1225.7	1225.7	1229.1
27.5°	1121.6	1146.8	1133.4	1140.1	1138.4	1140.1	1161.9	1165.3	1172.0	1173.7	1177.0
30°	1061.2	1084.7	1071.2	1077.9	1077.9	1077.9	1099.8	1101.5	1108.2	1109.9	1113.2
32.5°	990.6	1010.8	1000.7	1007.4	1005.8	1009.1	1024.2	1030.9	1039.3	1037.7	1039.3
35°	910.0	931.9	921.8	926.8	928.5	933.6	943.6	952.0	953.7	955.4	958.7
37.5°	822.7	844.6	834.5	839.5	841.2	851.3	854.6	863.0	866.4	866.4	866.4
40°	738.8	748.9	740.5	745.5	747.2	755.6	758.9	765.6	769.0	767.3	765.6
42.5°	648.1	656.5	648.1	653.2	653.2	659.9	661.5	669.9	669.9	666.6	661.5
45°	559.1	567.5	559.1	562.5	562.5	569.2	569.2	569.2	572.6	567.5	559.1
47.5°	475.2	483.6	475.2	478.5	476.9	481.9	480.2	481.9	476.9	473.5	463.4
50°	399.6	403.0	399.6	397.9	399.6	403.0	401.3	401.3	394.6	389.5	377.8
52.5°	325.7	330.8	325.7	325.7	325.7	329.1	329.1	327.4	320.7	314.0	302.2
55°	263.6	267.0	265.3	263.6	263.6	267.0	263.6	263.6	256.9	251.9	240.1
57.5°	209.9	211.6	209.9	209.9	209.9	211.6	211.6	208.2	203.2	198.1	189.7
60°	162.9	164.5	164.5	162.9	162.9	166.2	166.2	164.5	159.5	156.2	147.8
62.5°	129.3	129.3	129.3	129.3	129.3	131.0	131.0	131.0	127.6	124.2	117.5
65°	102.4	104.1	102.4	102.4	104.1	105.8	104.1	105.8	102.4	100.7	95.7
67.5°	78.9	80.6	78.9	80.6	80.6	82.3	80.6	82.3	78.9	77.2	73.9
70°	60.4	60.4	60.4	60.4	60.4	62.1	60.4	62.1	60.4	58.8	55.4
72.5°	45.3	45.3	47.0	47.0	45.3	47.0	45.3	45.3	45.3	43.7	42.0
75°	33.6	33.6	35.3	33.6	33.6	33.6	33.6	33.6	31.9	31.9	30.2
77.5°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	21.8	21.8	20.1
80°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	13.4	13.4
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	8.4	8.4
85°	5.0	5.0	5.0	6.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	1.7	1.7	1.7	3.4	1.7	1.7	3.4	3.4	1.7	1.7	1.7
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°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1420.5	1425.5	1425.5	1420.5	1432.2	1422.2	1442.3	1423.8	1428.9	1445.7	1444.0
5°	1415.4	1422.2	1423.8	1420.5	1435.6	1427.2	1447.3	1428.9	1437.3	1454.1	1454.1
7.5°	1408.7	1417.1	1420.5	1423.8	1437.3	1428.9	1452.4	1433.9	1445.7	1465.8	1464.1
10°	1393.6	1405.4	1412.1	1417.1	1430.6	1425.5	1450.7	1435.6	1445.7	1469.2	1467.5
12.5°	1385.2	1398.6	1408.7	1417.1	1432.2	1428.9	1454.1	1440.6	1454.1	1477.6	1477.6
15°	1378.5	1393.6	1405.4	1420.5	1435.6	1432.2	1459.1	1447.3	1460.8	1489.3	1487.6
17.5°	1361.7	1380.2	1391.9	1408.7	1423.8	1422.2	1450.7	1442.3	1457.4	1484.3	1486.0
20°	1333.2	1350.0	1363.4	1383.5	1400.3	1397.0	1427.2	1418.8	1433.9	1462.5	1464.1
22.5°	1296.2	1313.0	1326.4	1348.3	1363.4	1361.7	1391.9	1383.5	1398.6	1425.5	1427.2
25°	1252.6	1267.7	1281.1	1301.3	1318.1	1318.1	1344.9	1336.5	1353.3	1380.2	1380.2
27.5°	1198.8	1212.3	1224.0	1247.5	1261.0	1261.0	1286.2	1277.8	1294.5	1318.1	1316.4
30°	1133.4	1145.1	1155.2	1175.3	1187.1	1188.8	1210.6	1202.2	1219.0	1239.1	1239.1
32.5°	1054.4	1066.2	1072.9	1098.1	1106.5	1104.8	1121.6	1113.2	1130.0	1151.8	1146.8
35°	970.5	975.5	980.6	1005.8	1009.1	1002.4	1019.2	1010.8	1022.5	1044.4	1041.0
37.5°	874.8	876.5	876.5	898.3	900.0	894.9	905.0	894.9	903.3	923.5	921.8
40°	769.0	767.3	765.6	782.4	780.8	770.7	777.4	769.0	780.8	795.9	787.5
42.5°	661.5	656.5	649.8	658.2	651.5	643.1	646.4	633.0	641.4	653.2	643.1
45°	555.8	545.7	532.3	533.9	525.5	515.5	510.4	497.0	495.3	507.1	498.7
47.5°	456.7	436.6	424.8	418.1	404.7	396.3	386.2	371.1	364.4	371.1	362.7
50°	367.7	347.6	332.5	317.3	303.9	293.8	277.0	267.0	256.9	258.6	251.9
52.5°	290.5	277.0	251.9	240.1	226.7	214.9	199.8	188.1	176.3	176.3	169.6
55°	230.0	211.6	194.8	178.0	164.5	154.5	139.4	127.6	115.9	114.2	107.5
57.5°	178.0	164.5	146.1	129.3	120.9	110.8	95.7	82.3	75.6	70.5	65.5
60°	137.7	124.2	109.1	95.7	85.6	78.9	63.8	53.7	47.0	43.7	38.6
62.5°	110.8	99.1	85.6	72.2	65.5	58.8	47.0	38.6	31.9	28.5	25.2
65°	89.0	78.9	68.8	58.8	53.7	47.0	38.6	31.9	26.9	23.5	20.1
67.5°	68.8	62.1	53.7	47.0	42.0	36.9	30.2	25.2	21.8	18.5	16.8
70°	52.1	47.0	42.0	35.3	31.9	28.5	23.5	18.5	16.8	15.1	13.4
72.5°	40.3	35.3	30.2	26.9	23.5	21.8	18.5	15.1	13.4	11.8	10.1
75°	26.9	25.2	21.8	18.5	16.8	15.1	13.4	11.8	10.1	8.4	8.4
77.5°	18.5	16.8	15.1	13.4	11.8	11.8	10.1	8.4	6.7	6.7	5.0
80°	11.8	10.1	10.1	8.4	8.4	8.4	6.7	5.0	5.0	5.0	3.4
82.5°	8.4	6.7	6.7	5.0	5.0	5.0	5.0	3.4	3.4	3.4	1.7
85°	5.0	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1430.6	1445.7	1445.7	1459.1	1460.8	1457.4	1442.3	1442.3	1462.5	1474.2	1454.1
5°	1444.0	1459.1	1459.1	1472.5	1479.2	1474.2	1459.1	1460.8	1480.9	1494.4	1474.2
7.5°	1455.7	1470.8	1474.2	1489.3	1494.4	1489.3	1474.2	1477.6	1499.4	1511.1	1491.0
10°	1460.8	1475.9	1477.6	1494.4	1501.1	1494.4	1482.6	1484.3	1507.8	1516.2	1497.7
12.5°	1472.5	1487.6	1487.6	1506.1	1512.8	1507.8	1492.7	1496.0	1519.5	1527.9	1509.5
15°	1484.3	1499.4	1499.4	1519.5	1527.9	1521.2	1509.5	1511.1	1534.7	1543.0	1527.9
17.5°	1484.3	1497.7	1497.7	1519.5	1527.9	1522.9	1509.5	1511.1	1536.3	1543.0	1527.9
20°	1462.5	1477.6	1474.2	1496.0	1504.4	1499.4	1487.6	1487.6	1512.8	1519.5	1504.4
22.5°	1427.2	1440.6	1437.3	1457.4	1467.5	1460.8	1450.7	1449.0	1474.2	1480.9	1465.8
25°	1378.5	1391.9	1388.6	1408.7	1418.8	1410.4	1398.6	1400.3	1420.5	1430.6	1417.1
27.5°	1321.4	1329.8	1324.8	1344.9	1355.0	1346.6	1334.8	1336.5	1356.7	1363.4	1353.3
30°	1244.2	1250.9	1245.9	1262.6	1269.4	1264.3	1254.3	1254.3	1272.7	1281.1	1271.0
32.5°	1151.8	1156.9	1151.8	1165.3	1178.7	1168.6	1158.5	1158.5	1178.7	1185.4	1173.7
35°	1044.4	1049.4	1046.0	1059.5	1069.6	1056.1	1047.7	1044.4	1071.2	1067.9	1061.2
37.5°	925.2	928.5	918.4	941.9	947.0	931.9	925.2	921.8	945.3	943.6	936.9
40°	790.8	794.2	787.5	804.3	805.9	794.2	789.2	784.1	807.6	805.9	800.9
42.5°	648.1	649.8	641.4	654.8	658.2	646.4	644.8	638.0	659.9	656.5	654.8
45°	500.4	500.4	493.6	503.7	507.1	497.0	493.6	492.0	507.1	507.1	503.7
47.5°	362.7	357.6	349.2	364.4	366.0	359.3	357.6	352.6	367.7	367.7	364.4
50°	248.5	246.8	245.1	248.5	250.2	241.8	246.8	241.8	250.2	250.2	250.2
52.5°	166.2	164.5	161.2	164.5	164.5	159.5	159.5	157.8	164.5	164.5	161.2
55°	104.1	102.4	100.7	102.4	102.4	97.4	100.7	97.4	100.7	100.7	99.1
57.5°	63.8	60.4	60.4	58.8	58.8	55.4	57.1	57.1	57.1	57.1	57.1
60°	36.9	35.3	33.6	33.6	33.6	31.9	31.9	31.9	31.9	31.9	31.9
62.5°	23.5	23.5	21.8	21.8	21.8	21.8	21.8	20.1	21.8	21.8	21.8
65°	20.1	18.5	18.5	18.5	18.5	16.8	16.8	16.8	16.8	16.8	16.8
67.5°	16.8	15.1	15.1	15.1	15.1	13.4	13.4	13.4	13.4	13.4	13.4
70°	13.4	11.8	11.8	11.8	11.8	11.8	10.1	11.8	11.8	10.1	10.1
72.5°	10.1	10.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	6.7	6.7	6.7	6.7	6.7	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	5.0	5.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	0.0	1.7	0.0	1.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212816

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1477.6	1460.8	1452.4	1469.2	1475.9	1467.5	1460.8	1449.0	1460.8	1467.5	1475.9
5°	1497.7	1482.6	1475.9	1487.6	1497.7	1489.3	1484.3	1472.5	1484.3	1489.3	1497.7
7.5°	1516.2	1501.1	1492.7	1504.4	1516.2	1504.4	1499.4	1489.3	1499.4	1504.4	1516.2
10°	1522.9	1506.1	1499.4	1509.5	1521.2	1509.5	1502.7	1496.0	1502.7	1509.5	1521.2
12.5°	1534.7	1517.9	1509.5	1517.9	1529.6	1517.9	1511.1	1506.1	1511.1	1517.9	1529.6
15°	1551.4	1536.3	1526.3	1534.7	1549.8	1536.3	1527.9	1526.3	1527.9	1536.3	1549.8
17.5°	1551.4	1539.7	1529.6	1536.3	1551.4	1541.4	1529.6	1533.0	1529.6	1541.4	1551.4
20°	1529.6	1517.9	1509.5	1509.5	1531.3	1517.9	1507.8	1512.8	1507.8	1517.9	1531.3
22.5°	1491.0	1480.9	1472.5	1470.8	1492.7	1480.9	1467.5	1477.6	1467.5	1480.9	1492.7
25°	1440.6	1430.6	1423.8	1420.5	1442.3	1428.9	1417.1	1427.2	1417.1	1428.9	1442.3
27.5°	1375.1	1366.7	1360.0	1355.0	1375.1	1363.4	1351.6	1361.7	1351.6	1363.4	1375.1
30°	1291.2	1286.2	1279.4	1272.7	1292.9	1281.1	1269.4	1282.8	1269.4	1281.1	1292.9
32.5°	1193.8	1190.4	1182.1	1175.3	1195.5	1182.1	1173.7	1183.7	1173.7	1182.1	1195.5
35°	1081.3	1076.3	1071.2	1059.5	1081.3	1069.6	1069.6	1072.9	1069.6	1069.6	1081.3
37.5°	955.4	952.0	945.3	935.2	953.7	945.3	941.9	952.0	941.9	945.3	953.7
40°	814.3	812.7	807.6	795.9	816.0	807.6	802.6	816.0	802.6	807.6	816.0
42.5°	666.6	663.2	658.2	656.5	666.6	659.9	664.9	664.9	664.9	659.9	666.6
45°	513.8	510.4	507.1	500.4	512.1	508.8	507.1	510.4	507.1	508.8	512.1
47.5°	372.7	369.4	366.0	361.0	372.7	367.7	367.7	371.1	367.7	367.7	372.7
50°	250.2	251.9	250.2	246.8	250.2	248.5	250.2	253.5	250.2	248.5	250.2
52.5°	166.2	166.2	162.9	161.2	164.5	162.9	167.9	164.5	167.9	162.9	164.5
55°	100.7	102.4	100.7	99.1	100.7	99.1	104.1	102.4	104.1	99.1	100.7
57.5°	57.1	57.1	58.8	57.1	60.4	58.8	58.8	58.8	58.8	58.8	60.4
60°	31.9	31.9	31.9	31.9	31.9	31.9	33.6	31.9	33.6	31.9	31.9
62.5°	21.8	21.8	21.8	20.1	21.8	20.1	21.8	21.8	21.8	20.1	21.8
65°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
67.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
70°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212816

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1469.2	1452.4	1460.8	1477.6	1454.1	1474.2	1462.5	1442.3	1442.3	1457.4	1460.8
5°	1487.6	1475.9	1482.6	1497.7	1474.2	1494.4	1480.9	1460.8	1459.1	1474.2	1479.2
7.5°	1504.4	1492.7	1501.1	1516.2	1491.0	1511.1	1499.4	1477.6	1474.2	1489.3	1494.4
10°	1509.5	1499.4	1506.1	1522.9	1497.7	1516.2	1507.8	1484.3	1482.6	1494.4	1501.1
12.5°	1517.9	1509.5	1517.9	1534.7	1509.5	1527.9	1519.5	1496.0	1492.7	1507.8	1512.8
15°	1534.7	1526.3	1536.3	1551.4	1527.9	1543.0	1534.7	1511.1	1509.5	1521.2	1527.9
17.5°	1536.3	1529.6	1539.7	1551.4	1527.9	1543.0	1536.3	1511.1	1509.5	1522.9	1527.9
20°	1509.5	1509.5	1517.9	1529.6	1504.4	1519.5	1512.8	1487.6	1487.6	1499.4	1504.4
22.5°	1470.8	1472.5	1480.9	1491.0	1465.8	1480.9	1474.2	1449.0	1450.7	1460.8	1467.5
25°	1420.5	1423.8	1430.6	1440.6	1417.1	1430.6	1420.5	1400.3	1398.6	1410.4	1418.8
27.5°	1355.0	1360.0	1366.7	1375.1	1353.3	1363.4	1356.7	1336.5	1334.8	1346.6	1355.0
30°	1272.7	1279.4	1286.2	1291.2	1271.0	1281.1	1272.7	1254.3	1254.3	1264.3	1269.4
32.5°	1175.3	1182.1	1190.4	1193.8	1173.7	1185.4	1178.7	1158.5	1158.5	1168.6	1178.7
35°	1059.5	1071.2	1076.3	1081.3	1061.2	1067.9	1071.2	1044.4	1047.7	1056.1	1069.6
37.5°	935.2	945.3	952.0	955.4	936.9	943.6	945.3	921.8	925.2	931.9	947.0
40°	795.9	807.6	812.7	814.3	800.9	805.9	807.6	784.1	789.2	794.2	805.9
42.5°	656.5	658.2	663.2	666.6	654.8	656.5	659.9	638.0	644.8	646.4	658.2
45°	500.4	507.1	510.4	513.8	503.7	507.1	507.1	492.0	493.6	497.0	507.1
47.5°	361.0	366.0	369.4	372.7	364.4	367.7	367.7	352.6	357.6	359.3	366.0
50°	246.8	250.2	251.9	250.2	250.2	250.2	250.2	241.8	246.8	241.8	250.2
52.5°	161.2	162.9	166.2	166.2	161.2	164.5	164.5	157.8	159.5	159.5	164.5
55°	99.1	100.7	102.4	100.7	99.1	100.7	100.7	97.4	100.7	97.4	102.4
57.5°	57.1	58.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	55.4	58.8
60°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	33.6
62.5°	20.1	21.8	21.8	21.8	21.8	21.8	21.8	20.1	21.8	21.8	21.8
65°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	18.5
67.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	15.1
70°	10.1	10.1	10.1	10.1	10.1	10.1	11.8	11.8	10.1	11.8	11.8
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	1.7
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212816

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1459.1	1445.7	1445.7	1430.6	1444.0	1445.7	1428.9	1423.8	1442.3	1422.2	1432.2
5°	1472.5	1459.1	1459.1	1444.0	1454.1	1454.1	1437.3	1428.9	1447.3	1427.2	1435.6
7.5°	1489.3	1474.2	1470.8	1455.7	1464.1	1465.8	1445.7	1433.9	1452.4	1428.9	1437.3
10°	1494.4	1477.6	1475.9	1460.8	1467.5	1469.2	1445.7	1435.6	1450.7	1425.5	1430.6
12.5°	1506.1	1487.6	1487.6	1472.5	1477.6	1477.6	1454.1	1440.6	1454.1	1428.9	1432.2
15°	1519.5	1499.4	1499.4	1484.3	1487.6	1489.3	1460.8	1447.3	1459.1	1432.2	1435.6
17.5°	1519.5	1497.7	1497.7	1484.3	1486.0	1484.3	1457.4	1442.3	1450.7	1422.2	1423.8
20°	1496.0	1474.2	1477.6	1462.5	1464.1	1462.5	1433.9	1418.8	1427.2	1397.0	1400.3
22.5°	1457.4	1437.3	1440.6	1427.2	1427.2	1425.5	1398.6	1383.5	1391.9	1361.7	1363.4
25°	1408.7	1388.6	1391.9	1378.5	1380.2	1380.2	1353.3	1336.5	1344.9	1318.1	1318.1
27.5°	1344.9	1324.8	1329.8	1321.4	1316.4	1318.1	1294.5	1277.8	1286.2	1261.0	1261.0
30°	1262.6	1245.9	1250.9	1244.2	1239.1	1239.1	1219.0	1202.2	1210.6	1188.8	1187.1
32.5°	1165.3	1151.8	1156.9	1151.8	1146.8	1151.8	1130.0	1113.2	1121.6	1104.8	1106.5
35°	1059.5	1046.0	1049.4	1044.4	1041.0	1044.4	1022.5	1010.8	1019.2	1002.4	1009.1
37.5°	941.9	918.4	928.5	925.2	921.8	923.5	903.3	894.9	905.0	894.9	900.0
40°	804.3	787.5	794.2	790.8	787.5	795.9	780.8	769.0	777.4	770.7	780.8
42.5°	654.8	641.4	649.8	648.1	643.1	653.2	641.4	633.0	646.4	643.1	651.5
45°	503.7	493.6	500.4	500.4	498.7	507.1	495.3	497.0	510.4	515.5	525.5
47.5°	364.4	349.2	357.6	362.7	362.7	371.1	364.4	371.1	386.2	396.3	404.7
50°	248.5	245.1	246.8	248.5	251.9	258.6	256.9	267.0	277.0	293.8	303.9
52.5°	164.5	161.2	164.5	166.2	169.6	176.3	176.3	188.1	199.8	214.9	226.7
55°	102.4	100.7	102.4	104.1	107.5	114.2	115.9	127.6	139.4	154.5	164.5
57.5°	58.8	60.4	60.4	63.8	65.5	70.5	75.6	82.3	95.7	110.8	120.9
60°	33.6	33.6	35.3	36.9	38.6	43.7	47.0	53.7	63.8	78.9	85.6
62.5°	21.8	21.8	23.5	23.5	25.2	28.5	31.9	38.6	47.0	58.8	65.5
65°	18.5	18.5	18.5	20.1	20.1	23.5	26.9	31.9	38.6	47.0	53.7
67.5°	15.1	15.1	15.1	16.8	16.8	18.5	21.8	25.2	30.2	36.9	42.0
70°	11.8	11.8	11.8	13.4	13.4	15.1	16.8	18.5	23.5	28.5	31.9
72.5°	8.4	8.4	10.1	10.1	10.1	11.8	13.4	15.1	18.5	21.8	23.5
75°	6.7	6.7	6.7	6.7	8.4	8.4	10.1	11.8	13.4	15.1	16.8
77.5°	3.4	3.4	5.0	5.0	5.0	6.7	6.7	8.4	10.1	11.8	11.8
80°	3.4	3.4	3.4	3.4	3.4	5.0	5.0	5.0	6.7	8.4	8.4
82.5°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.0	5.0	5.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
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: P212816

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1420.5	1425.5	1425.5	1420.5	1407.0	1418.8	1430.6	1418.8	1433.9	1407.0	1407.0
5°	1420.5	1423.8	1422.2	1415.4	1402.0	1412.1	1420.5	1408.7	1420.5	1395.3	1393.6
7.5°	1423.8	1420.5	1417.1	1408.7	1391.9	1398.6	1407.0	1393.6	1405.4	1378.5	1375.1
10°	1417.1	1412.1	1405.4	1393.6	1375.1	1380.2	1385.2	1373.5	1381.9	1355.0	1353.3
12.5°	1417.1	1408.7	1398.6	1385.2	1365.1	1368.4	1373.5	1358.4	1365.1	1339.9	1336.5
15°	1420.5	1405.4	1393.6	1378.5	1356.7	1358.4	1361.7	1344.9	1351.6	1324.8	1323.1
17.5°	1408.7	1391.9	1380.2	1361.7	1338.2	1339.9	1339.9	1323.1	1328.1	1301.3	1299.6
20°	1383.5	1363.4	1350.0	1333.2	1308.0	1308.0	1308.0	1291.2	1294.5	1271.0	1267.7
22.5°	1348.3	1326.4	1313.0	1296.2	1272.7	1271.0	1269.4	1255.9	1255.9	1234.1	1229.1
25°	1301.3	1281.1	1267.7	1252.6	1229.1	1225.7	1225.7	1214.0	1212.3	1192.1	1188.8
27.5°	1247.5	1224.0	1212.3	1198.8	1177.0	1173.7	1172.0	1165.3	1161.9	1140.1	1138.4
30°	1175.3	1155.2	1145.1	1133.4	1113.2	1109.9	1108.2	1101.5	1099.8	1077.9	1077.9
32.5°	1098.1	1072.9	1066.2	1054.4	1039.3	1037.7	1039.3	1030.9	1024.2	1009.1	1005.8
35°	1005.8	980.6	975.5	970.5	958.7	955.4	953.7	952.0	943.6	933.6	928.5
37.5°	898.3	876.5	876.5	874.8	866.4	866.4	866.4	863.0	854.6	851.3	841.2
40°	782.4	765.6	767.3	769.0	765.6	767.3	769.0	765.6	758.9	755.6	747.2
42.5°	658.2	649.8	656.5	661.5	661.5	666.6	669.9	669.9	661.5	659.9	653.2
45°	533.9	532.3	545.7	555.8	559.1	567.5	572.6	569.2	569.2	569.2	562.5
47.5°	418.1	424.8	436.6	456.7	463.4	473.5	476.9	481.9	480.2	481.9	476.9
50°	317.3	332.5	347.6	367.7	377.8	389.5	394.6	401.3	401.3	403.0	399.6
52.5°	240.1	251.9	277.0	290.5	302.2	314.0	320.7	327.4	329.1	329.1	325.7
55°	178.0	194.8	211.6	230.0	240.1	251.9	256.9	263.6	263.6	267.0	263.6
57.5°	129.3	146.1	164.5	178.0	189.7	198.1	203.2	208.2	211.6	211.6	209.9
60°	95.7	109.1	124.2	137.7	147.8	156.2	159.5	164.5	166.2	166.2	162.9
62.5°	72.2	85.6	99.1	110.8	117.5	124.2	127.6	131.0	131.0	131.0	129.3
65°	58.8	68.8	78.9	89.0	95.7	100.7	102.4	105.8	104.1	105.8	104.1
67.5°	47.0	53.7	62.1	68.8	73.9	77.2	78.9	82.3	80.6	82.3	80.6
70°	35.3	42.0	47.0	52.1	55.4	58.8	60.4	62.1	60.4	62.1	60.4
72.5°	26.9	30.2	35.3	40.3	42.0	43.7	45.3	45.3	45.3	47.0	45.3
75°	18.5	21.8	25.2	26.9	30.2	31.9	31.9	33.6	33.6	33.6	33.6
77.5°	13.4	15.1	16.8	18.5	20.1	21.8	21.8	23.5	23.5	23.5	23.5
80°	8.4	10.1	10.1	11.8	13.4	13.4	15.1	15.1	15.1	15.1	15.1
82.5°	5.0	6.7	6.7	8.4	8.4	8.4	10.1	10.1	10.1	10.1	10.1
85°	3.4	3.4	3.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	1.7	1.7
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: P212816

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1442.3	1442.3	1442.3	1442.3
2.5°	1420.5	1412.1	1425.5	1405.4
5°	1405.4	1397.0	1413.8	1388.6
7.5°	1386.9	1378.5	1393.6	1368.4
10°	1363.4	1355.0	1368.4	1341.6
12.5°	1343.2	1334.8	1350.0	1324.8
15°	1328.1	1319.7	1333.2	1309.7
17.5°	1304.6	1294.5	1309.7	1284.5
20°	1271.0	1264.3	1276.1	1250.9
22.5°	1232.4	1225.7	1239.1	1214.0
25°	1192.1	1183.7	1197.2	1172.0
27.5°	1140.1	1133.4	1146.8	1121.6
30°	1077.9	1071.2	1084.7	1061.2
32.5°	1007.4	1000.7	1010.8	990.6
35°	926.8	921.8	931.9	910.0
37.5°	839.5	834.5	844.6	822.7
40°	745.5	740.5	748.9	738.8
42.5°	653.2	648.1	656.5	648.1
45°	562.5	559.1	567.5	559.1
47.5°	478.5	475.2	483.6	475.2
50°	397.9	399.6	403.0	399.6
52.5°	325.7	325.7	330.8	325.7
55°	263.6	265.3	267.0	263.6
57.5°	209.9	209.9	211.6	209.9
60°	162.9	164.5	164.5	162.9
62.5°	129.3	129.3	129.3	129.3
65°	102.4	102.4	104.1	102.4
67.5°	80.6	78.9	80.6	78.9
70°	60.4	60.4	60.4	60.4
72.5°	47.0	47.0	45.3	45.3
75°	33.6	35.3	33.6	33.6
77.5°	23.5	23.5	23.5	23.5
80°	15.1	15.1	15.1	15.1
82.5°	10.1	10.1	10.1	10.1
85°	6.7	5.0	5.0	5.0
87.5°	3.4	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)