

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: P252561

Luminaire Tested: **LE_6B15D010 EC6B10208050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.2 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

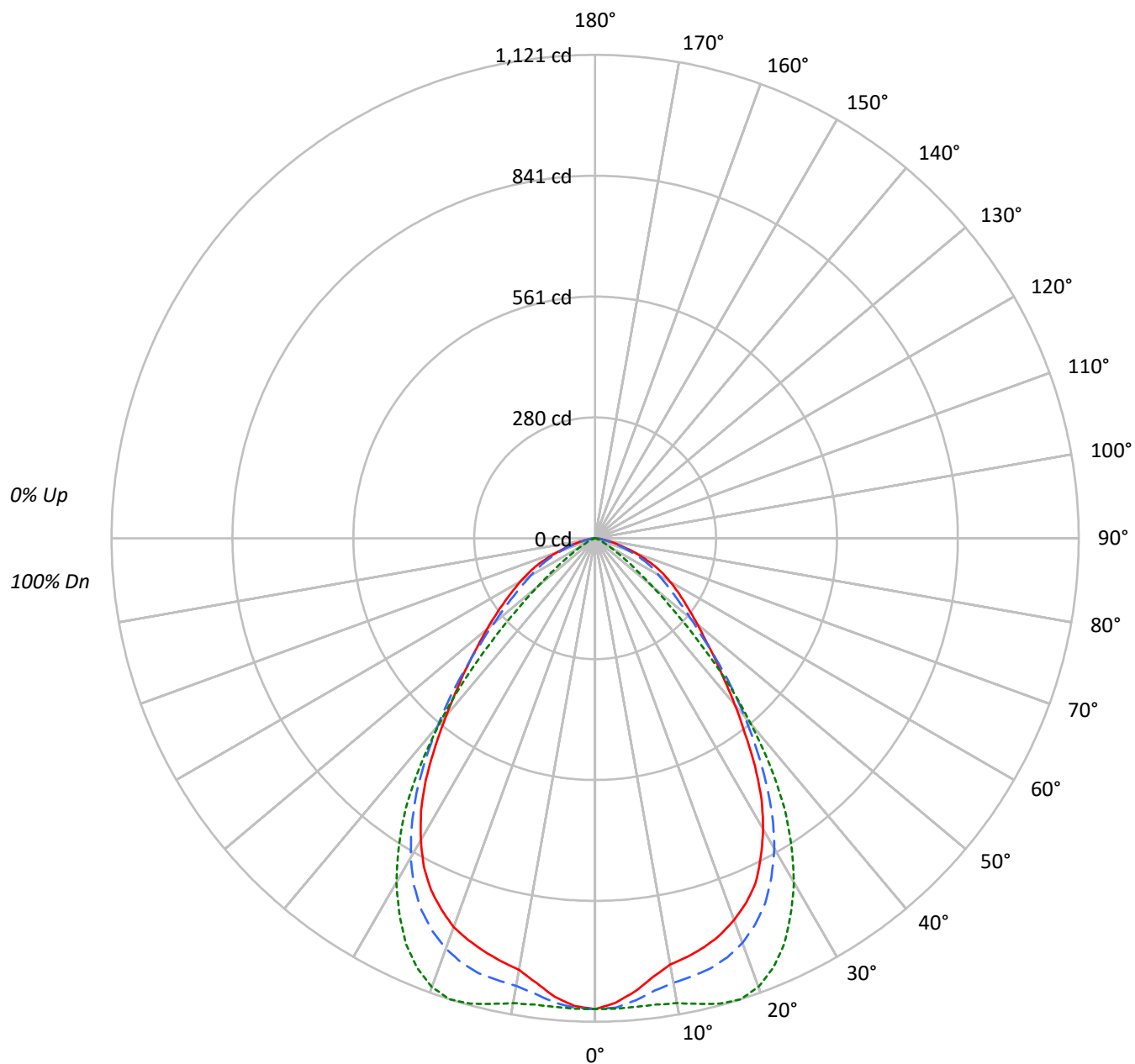
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50		
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	71236	71236	71236
5°	69105	71423	69937
10°	66479	72507	67314
15°	66252	75451	67015
20°	65387	76856	66609
25°	63426	74692	64787
30°	58677	69420	60862
35°	51466	61023	54485
40°	42889	47846	45691
45°	36112	31564	38557
50°	31261	17295	33189
55°	28277	9190	29005
60°	26031	4776	26031
65°	23588	2532	23001
70°	19037	1450	17568
75°	13057	958	12099
80°	8566	451	7589
85°	5689	898	4641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	5.4
10°-20°	294.4	15.6
20°-30°	435.0	23.0
30°-40°	439.4	23.2
40°-50°	302.9	16.0
50°-60°	173.9	9.2
60°-70°	101.2	5.4
70°-80°	36.9	2.0
80°-90°	5.6	0.3
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°	831.3	44.0
0°-40°	1270.6	67.2
0°-60°	1747.4	92.4
0°-90°	1891.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1092	1092	1092	1092	1092	
5°	1055	1076	1091	1080	1068	99
15°	981	1033	1117	1044	992	276
25°	881	933	1038	952	900	401
35°	646	690	766	722	684	401
45°	391	396	342	422	418	304
55°	249	218	81	227	255	224
65°	153	129	16	128	149	150
75°	52	42	4	40	48	58
85°	8	4	1	5	6	10
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°	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1078.0	1079.2	1080.5	1079.2	1080.5	1085.6	1081.9	1084.4	1084.4	1085.6	1089.4
5°	1055.2	1055.2	1057.9	1056.6	1060.4	1065.4	1061.6	1065.4	1066.6	1069.2	1075.5
7.5°	1026.2	1026.2	1027.5	1027.5	1032.6	1037.6	1035.1	1040.1	1045.2	1050.2	1057.9
10°	1003.5	1006.1	1006.1	1007.4	1012.4	1018.8	1017.4	1023.8	1028.8	1036.4	1046.5
12.5°	993.5	994.8	994.8	997.2	1002.2	1008.6	1007.4	1013.6	1021.2	1030.0	1040.1
15°	980.9	983.4	982.1	984.6	989.6	996.0	994.8	1001.0	1009.9	1018.8	1032.6
17.5°	964.4	965.6	967.0	967.0	972.0	977.0	977.0	983.4	993.5	1003.5	1018.8
20°	941.8	944.2	944.2	945.5	949.2	956.9	955.6	961.9	972.0	982.1	998.5
22.5°	915.1	916.5	916.5	917.8	924.0	927.8	929.1	934.1	943.0	954.4	969.5
25°	881.1	882.4	881.1	884.9	887.4	895.0	892.5	898.8	908.9	917.8	932.9
27.5°	831.9	834.4	834.4	835.6	842.0	848.2	848.2	854.6	863.4	869.8	884.9
30°	778.9	782.6	778.9	785.1	787.8	792.8	796.5	800.4	807.9	816.8	830.6
32.5°	718.2	717.0	718.2	720.8	728.4	732.1	734.6	738.5	746.0	753.6	765.0
35°	646.2	648.9	650.1	655.1	655.1	661.5	662.8	665.2	676.6	681.6	690.5
37.5°	570.6	573.1	574.4	576.9	581.9	584.5	588.2	592.0	599.6	608.5	613.5
40°	503.6	503.6	504.9	507.5	511.2	512.5	516.2	521.4	526.4	534.0	539.0
42.5°	440.5	441.9	440.5	443.1	446.9	451.9	450.6	457.0	458.2	463.2	467.0
45°	391.4	391.4	388.8	391.4	391.4	396.4	395.1	397.6	396.4	398.9	396.4
47.5°	344.6	345.9	344.6	345.9	345.9	345.9	347.1	344.6	345.9	342.1	334.5
50°	308.0	309.2	306.8	308.0	306.8	305.5	306.8	303.0	301.8	296.6	289.1
52.5°	276.5	275.1	273.9	273.9	273.9	272.6	271.4	267.6	263.9	258.8	250.0
55°	248.6	247.4	246.1	246.1	243.6	242.4	242.4	238.6	234.8	228.5	218.4
57.5°	223.4	222.1	220.9	220.9	219.6	217.1	217.1	213.4	208.2	200.8	191.9
60°	199.5	199.5	199.5	198.1	198.1	195.6	195.6	191.9	186.9	179.2	169.1
62.5°	178.0	176.8	176.8	176.8	176.8	175.5	174.2	171.6	166.6	159.0	150.2
65°	152.8	152.8	152.8	152.8	151.5	151.5	151.5	147.8	145.1	137.6	128.8
67.5°	125.0	125.0	125.0	125.0	123.8	125.0	125.0	122.5	119.9	112.4	104.8
70°	99.8	98.5	97.2	98.5	97.2	97.2	98.5	95.9	94.6	88.4	80.8
72.5°	73.2	74.5	73.2	73.2	73.2	72.0	73.2	72.0	69.4	64.4	59.4
75°	51.8	53.0	53.0	51.8	51.8	51.8	50.5	50.5	48.0	44.1	41.6
77.5°	35.4	35.4	35.4	35.4	34.1	34.1	34.1	32.9	31.5	29.0	26.5
80°	22.8	22.8	22.8	22.8	21.5	21.5	21.5	20.2	20.2	17.6	15.1
82.5°	13.9	13.9	13.9	13.9	13.9	13.9	12.6	12.6	11.4	10.1	8.9
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.2	6.2	5.0	3.8
87.5°	2.5	2.5	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5
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°	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1086.9	1088.1	1088.1	1088.1	1091.9	1093.1	1089.4	1085.6	1093.1	1091.9	1094.5
5°	1074.2	1078.0	1080.5	1081.9	1085.6	1088.1	1084.4	1083.1	1089.4	1090.6	1091.9
7.5°	1059.1	1065.4	1071.8	1074.2	1079.2	1081.9	1080.5	1080.5	1088.1	1090.6	1090.6
10°	1049.0	1057.9	1065.4	1071.8	1078.0	1081.9	1081.9	1083.1	1091.9	1094.5	1097.0
12.5°	1046.5	1057.9	1067.9	1076.8	1081.9	1088.1	1089.4	1093.1	1102.0	1105.8	1105.8
15°	1040.1	1055.2	1067.9	1079.2	1086.9	1094.5	1097.0	1104.5	1114.6	1117.1	1119.6
17.5°	1028.8	1044.0	1059.1	1073.0	1083.1	1089.4	1097.0	1104.5	1117.1	1121.0	1122.2
20°	1008.6	1026.2	1041.4	1055.2	1065.4	1074.2	1081.9	1090.6	1102.0	1107.0	1108.4
22.5°	978.2	996.0	1011.1	1026.2	1036.4	1044.0	1051.5	1061.6	1073.0	1078.0	1078.0
25°	941.8	958.1	974.5	985.9	996.0	1004.8	1008.6	1020.0	1031.4	1037.6	1037.6
27.5°	895.0	910.1	925.2	937.9	944.2	951.8	958.1	968.2	977.0	982.1	987.1
30°	835.6	850.8	864.8	877.4	884.9	892.5	898.8	906.4	915.1	921.5	922.8
32.5°	771.2	783.9	797.8	810.4	818.0	820.5	826.9	834.4	842.0	847.0	848.2
35°	700.6	709.4	718.2	729.6	737.2	737.2	743.5	748.5	754.9	766.2	763.8
37.5°	617.2	629.9	636.2	640.0	645.0	650.1	651.4	657.6	665.2	667.8	671.5
40°	539.0	542.8	546.6	546.6	551.6	551.6	551.6	552.9	560.5	561.8	566.8
42.5°	460.8	460.8	457.0	453.1	454.5	453.1	446.9	446.9	450.6	455.8	455.8
45°	387.5	378.8	367.4	358.5	352.2	349.6	342.1	342.1	340.9	342.1	347.1
47.5°	325.6	310.5	291.6	273.9	267.6	262.6	251.2	246.1	243.6	244.9	247.4
50°	273.9	257.5	236.0	214.6	203.2	196.9	183.0	174.2	173.0	170.4	175.5
52.5°	236.0	215.9	193.1	167.9	156.5	146.4	131.2	123.8	118.6	118.6	119.9
55°	203.2	181.8	156.5	131.2	119.9	112.4	97.2	87.1	82.0	80.8	84.6
57.5°	175.5	155.2	130.0	104.8	93.4	84.6	69.4	60.6	56.8	54.2	55.5
60°	154.0	133.8	108.5	84.6	74.5	64.4	51.8	41.6	36.6	36.6	37.9
62.5°	133.8	114.9	92.1	69.4	60.6	51.8	37.9	29.0	25.2	24.0	25.2
65°	113.6	95.9	77.0	58.1	49.2	41.6	30.2	22.8	17.6	16.4	17.6
67.5°	92.1	78.2	61.9	46.8	39.1	32.9	22.8	16.4	12.6	11.4	12.6
70°	72.0	59.4	46.8	34.1	29.0	24.0	16.4	12.6	8.9	7.6	8.9
72.5°	51.8	42.9	32.9	24.0	20.2	16.4	11.4	8.9	6.2	5.0	6.2
75°	35.4	29.0	21.5	15.1	12.6	11.4	7.6	5.0	3.8	3.8	3.8
77.5°	22.8	17.6	13.9	10.1	7.6	6.2	3.8	2.5	2.5	2.5	2.5
80°	12.6	10.1	7.6	5.0	3.8	3.8	2.5	2.5	1.2	1.2	1.2
82.5°	7.6	5.0	3.8	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
85°	3.8	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1089.4	1090.6	1086.9	1091.9	1088.1	1093.1	1093.1	1088.1	1089.4	1086.9	1091.9
5°	1086.9	1086.9	1084.4	1088.1	1083.1	1088.1	1086.9	1078.0	1080.5	1075.5	1080.5
7.5°	1086.9	1084.4	1080.5	1084.4	1078.0	1081.9	1076.8	1067.9	1065.4	1059.1	1059.1
10°	1090.6	1086.9	1081.9	1083.1	1076.8	1078.0	1070.5	1057.9	1054.0	1046.5	1044.0
12.5°	1099.5	1095.8	1088.1	1090.6	1081.9	1081.9	1071.8	1056.6	1049.0	1038.9	1036.4
15°	1112.1	1105.8	1097.0	1098.2	1089.4	1084.4	1071.8	1054.0	1044.0	1030.0	1026.2
17.5°	1114.6	1108.4	1097.0	1097.0	1085.6	1079.2	1064.1	1044.0	1031.4	1017.4	1009.9
20°	1100.8	1094.5	1081.9	1080.5	1070.5	1061.6	1045.2	1025.0	1012.4	997.2	990.9
22.5°	1071.8	1064.1	1052.8	1051.5	1041.4	1036.4	1018.8	998.5	985.9	970.8	965.6
25°	1028.8	1025.0	1013.6	1012.4	1003.5	997.2	982.1	963.1	951.8	936.6	931.6
27.5°	978.2	974.5	963.1	963.1	953.0	949.2	935.4	917.8	908.9	895.0	888.6
30°	917.8	912.6	906.4	905.1	896.2	892.5	879.9	863.4	854.6	843.2	840.8
32.5°	845.8	842.0	838.1	836.9	828.1	824.2	815.5	799.0	791.5	781.4	777.6
35°	762.5	759.9	756.1	754.9	751.1	747.2	738.5	725.9	722.0	714.5	710.8
37.5°	666.5	669.0	666.5	666.5	662.8	664.0	656.4	648.9	645.0	640.0	637.5
40°	563.0	568.0	571.9	571.9	570.6	575.6	574.4	568.0	566.8	564.2	563.0
42.5°	458.2	460.8	468.4	473.4	472.1	484.8	486.0	491.0	494.9	492.2	493.6
45°	348.4	356.0	366.1	371.1	377.4	393.9	402.6	412.8	421.6	426.6	425.4
47.5°	251.2	260.0	271.4	279.0	290.4	310.5	333.2	345.9	358.5	364.9	371.1
50°	181.8	190.6	204.5	215.9	223.4	251.2	275.1	291.6	305.5	314.4	320.6
52.5°	127.5	137.6	152.8	162.9	174.2	200.8	228.5	247.4	262.6	273.9	280.2
55°	88.4	99.8	113.6	123.8	136.4	164.1	190.6	210.8	227.2	237.4	244.9
57.5°	61.9	72.0	85.9	94.6	107.2	133.8	160.4	180.5	196.9	207.0	215.9
60°	41.6	51.8	65.6	74.5	84.6	111.1	135.1	156.5	171.6	181.8	190.6
62.5°	29.0	37.9	51.8	60.6	69.4	92.1	114.9	133.8	149.0	160.4	167.9
65°	22.8	30.2	41.6	49.2	58.1	77.0	95.9	112.4	127.5	138.9	143.9
67.5°	16.4	24.0	32.9	39.1	45.5	61.9	78.2	90.9	104.8	113.6	119.9
70°	11.4	16.4	24.0	29.0	34.1	46.8	59.4	70.8	80.8	87.1	92.1
72.5°	8.9	11.4	16.4	20.2	24.0	32.9	42.9	51.8	59.4	64.4	69.4
75°	5.0	7.6	11.4	13.9	16.4	22.8	29.0	35.4	40.4	44.1	46.8
77.5°	2.5	3.8	6.2	7.6	10.1	13.9	18.9	22.8	26.5	29.0	31.5
80°	2.5	2.5	3.8	3.8	5.0	7.6	10.1	12.6	15.1	17.6	18.9
82.5°	1.2	1.2	2.5	2.5	2.5	3.8	5.0	7.6	8.9	10.1	11.4
85°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.8	5.0	6.2	6.2
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.8
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: P252561

CATALOG NUMBER: LE_6B15D010 EC6B10208050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9	1091.9
2.5°	1088.1	1090.6	1089.4	1091.9	1088.1	1086.9	1089.4	1085.6
5°	1074.2	1075.5	1074.2	1074.2	1071.8	1069.2	1071.8	1067.9
7.5°	1052.8	1052.8	1049.0	1049.0	1044.0	1041.4	1041.4	1040.1
10°	1035.1	1031.4	1027.5	1028.8	1021.2	1018.8	1017.4	1016.1
12.5°	1026.2	1023.8	1017.4	1017.4	1009.9	1007.4	1006.1	1004.8
15°	1016.1	1011.1	1006.1	1004.8	998.5	996.0	994.8	992.2
17.5°	998.5	994.8	988.4	988.4	982.1	980.9	978.2	977.0
20°	979.6	974.5	969.5	969.5	961.9	961.9	958.1	959.4
22.5°	953.0	949.2	944.2	944.2	937.9	936.6	932.9	931.6
25°	921.5	916.5	912.6	911.4	906.4	903.9	902.6	900.0
27.5°	879.9	876.0	872.2	869.8	863.4	862.1	858.4	859.6
30°	828.1	825.5	824.2	821.8	814.2	811.6	811.6	807.9
32.5°	771.2	767.5	765.0	761.1	754.9	753.6	749.9	751.1
35°	701.9	696.8	693.0	694.2	686.8	685.5	682.9	684.1
37.5°	629.9	624.9	619.8	618.5	612.2	612.2	608.5	608.5
40°	555.4	550.4	547.9	547.9	540.2	541.5	537.8	536.5
42.5°	488.5	483.5	482.2	481.0	477.1	475.9	472.1	473.4
45°	425.4	424.1	424.1	421.6	417.9	416.6	417.9	417.9
47.5°	369.9	371.1	369.9	369.9	367.4	369.9	367.4	368.6
50°	323.1	325.6	325.6	325.6	324.4	325.6	325.6	327.0
52.5°	284.0	287.8	286.5	287.8	286.5	289.1	287.8	289.1
55°	250.0	252.5	253.8	255.0	255.0	255.0	255.0	255.0
57.5°	218.4	222.1	223.4	224.8	224.8	227.2	224.8	224.8
60°	193.1	196.9	198.1	199.5	199.5	200.8	198.1	199.5
62.5°	170.4	174.2	174.2	175.5	175.5	175.5	173.0	174.2
65°	147.8	149.0	150.2	150.2	149.0	149.0	147.8	149.0
67.5°	122.5	123.8	122.5	122.5	121.1	121.1	118.6	119.9
70°	94.6	94.6	95.9	94.6	93.4	94.6	93.4	92.1
72.5°	70.8	70.8	70.8	69.4	69.4	68.1	69.4	69.4
75°	48.0	48.0	49.2	49.2	49.2	49.2	48.0	48.0
77.5°	31.5	31.5	31.5	31.5	32.9	31.5	31.5	31.5
80°	20.2	20.2	21.5	21.5	20.2	20.2	20.2	20.2
82.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
85°	7.6	7.6	7.6	7.6	6.2	6.2	6.2	6.2
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5
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)