

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: P252558

Luminaire Tested: **LE_6B15D010 EC6B10208030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252558
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 EC6B10208030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.3 lumens
Efficiency: N/A
Efficacy: 126.8 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

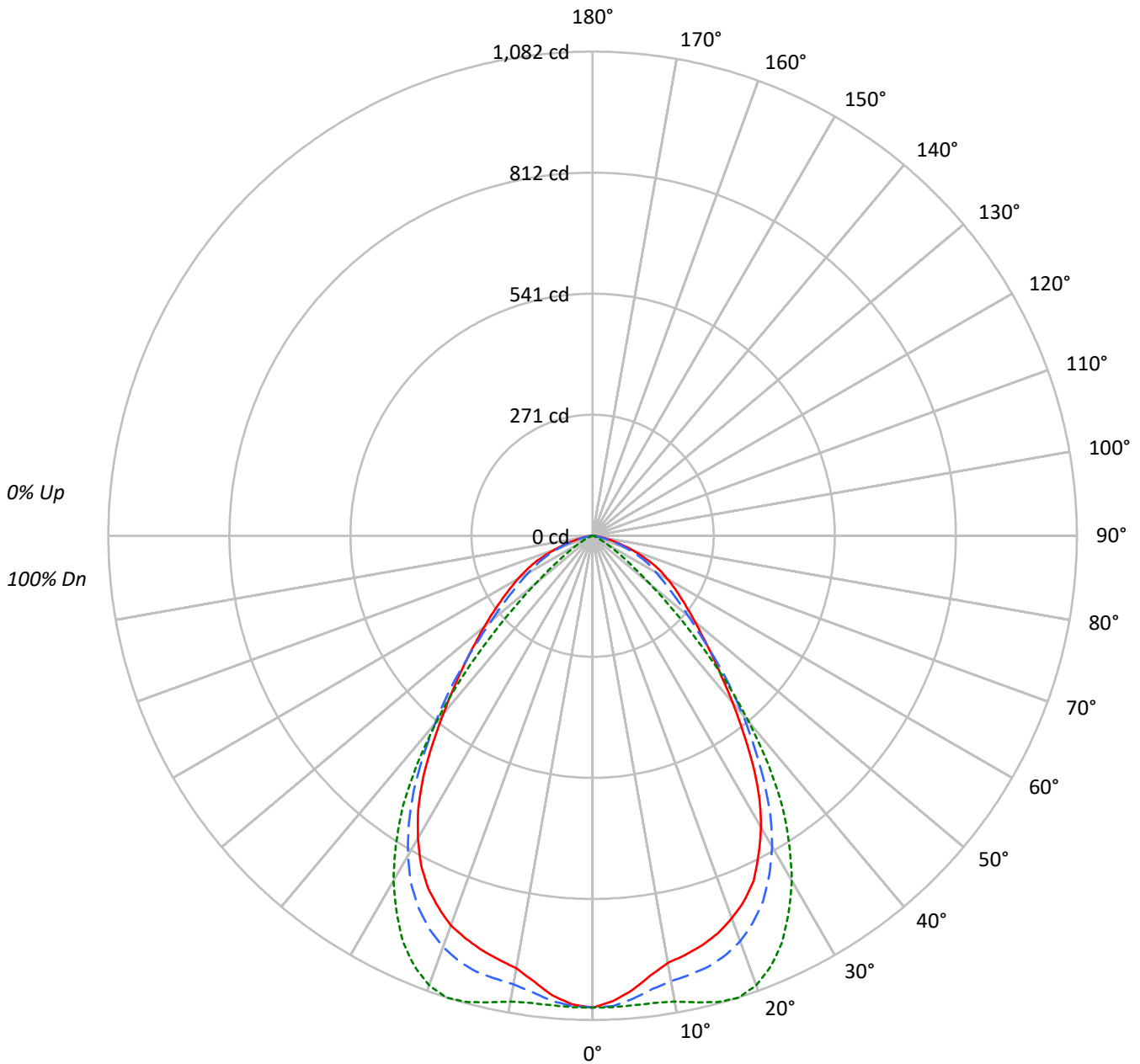
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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								
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°	68790	68790	68790
5°	66734	68967	67533
10°	64193	70017	65002
15°	63969	72864	64712
20°	63137	74218	64318
25°	61252	72129	62562
30°	56658	67039	58768
35°	49706	58929	52613
40°	41425	46194	44116
45°	34867	30484	37229
50°	30185	16696	32053
55°	27310	8872	28004
60°	25131	4619	25131
65°	22770	2455	22214
70°	18350	1412	16977
75°	12604	907	11696
80°	8266	451	7326
85°	5539	898	4566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	5.4
10°-20°	284.3	15.6
20°-30°	420.1	23.0
30°-40°	424.3	23.2
40°-50°	292.4	16.0
50°-60°	168.0	9.2
60°-70°	97.8	5.4
70°-80°	35.7	2.0
80°-90°	5.5	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°	802.7	44.0
0°-40°	1227.0	67.2
0°-60°	1687.4	92.4
0°-90°	1826.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1054	1054	1054	1054	1054	
5°	1019	1038	1053	1043	1031	96
15°	947	997	1079	1008	958	267
25°	851	901	1002	919	869	388
35°	624	667	740	697	661	387
45°	378	383	330	407	404	294
55°	240	211	78	219	246	216
65°	148	124	16	123	144	144
75°	50	40	4	39	46	56
85°	7	4	1	5	6	9
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°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1041.0	1042.2	1043.4	1042.2	1043.4	1048.2	1044.6	1047.1	1047.1	1048.2	1052.0
5°	1019.0	1019.0	1021.5	1020.2	1023.9	1028.8	1025.1	1028.8	1030.0	1032.5	1038.5
7.5°	991.0	991.0	992.2	992.2	997.1	1002.0	999.5	1004.4	1009.2	1014.1	1021.5
10°	969.0	971.5	971.5	972.8	977.6	983.6	982.5	988.5	993.5	1000.8	1010.5
12.5°	959.2	960.5	960.5	963.0	967.9	973.9	972.8	978.8	986.1	994.6	1004.4
15°	947.1	949.5	948.4	950.8	955.6	961.8	960.5	966.6	975.1	983.6	997.1
17.5°	931.2	932.5	933.8	933.8	938.6	943.5	943.5	949.5	959.2	969.0	983.6
20°	909.4	911.8	911.8	913.0	916.6	924.0	922.8	928.9	938.6	948.4	964.1
22.5°	883.8	885.0	885.0	886.1	892.2	895.9	897.1	902.0	910.5	921.5	936.1
25°	850.9	852.0	850.9	854.5	856.9	864.2	861.8	867.9	877.6	886.1	900.8
27.5°	803.2	805.8	805.8	807.0	813.0	819.1	819.1	825.2	833.8	839.9	854.5
30°	752.1	755.8	752.1	758.1	760.6	765.5	769.1	772.8	780.1	788.6	802.1
32.5°	693.6	692.4	693.6	696.0	703.4	707.0	709.4	713.1	720.4	727.8	738.6
35°	624.1	626.5	627.8	632.6	632.6	638.8	640.0	642.4	653.4	658.2	666.8
37.5°	551.0	553.4	554.6	557.0	561.9	564.4	568.0	571.6	579.0	587.5	592.4
40°	486.4	486.4	487.6	490.0	493.6	494.9	498.5	503.4	508.2	515.6	520.5
42.5°	425.4	426.6	425.4	427.9	431.5	436.4	435.1	441.2	442.5	447.4	451.0
45°	377.9	377.9	375.4	377.9	377.9	382.8	381.5	384.0	382.8	385.1	382.8
47.5°	332.8	334.0	332.8	334.0	334.0	334.0	335.2	332.8	334.0	330.4	323.0
50°	297.4	298.6	296.2	297.4	296.2	295.0	296.2	292.5	291.4	286.5	279.1
52.5°	267.0	265.8	264.5	264.5	264.5	263.2	262.1	258.4	254.8	249.9	241.4
55°	240.1	238.9	237.8	237.8	235.2	234.0	234.0	230.4	226.8	220.6	210.9
57.5°	215.8	214.5	213.4	213.4	212.1	209.6	209.6	206.0	201.1	193.8	185.2
60°	192.6	192.6	192.6	191.4	191.4	188.9	188.9	185.2	180.4	173.1	163.4
62.5°	171.9	170.6	170.6	170.6	170.6	169.4	168.2	165.8	160.9	153.6	145.0
65°	147.5	147.5	147.5	147.5	146.2	146.2	146.2	142.6	140.1	132.9	124.4
67.5°	120.6	120.6	120.6	120.6	119.5	120.6	120.6	118.2	115.8	108.5	101.1
70°	96.2	95.1	93.9	95.1	93.9	93.9	95.1	92.6	91.4	85.4	78.0
72.5°	70.8	71.9	70.8	70.8	70.8	69.5	70.8	69.5	67.0	62.1	57.2
75°	50.0	51.2	51.2	50.0	50.0	50.0	48.8	48.8	46.4	42.6	40.2
77.5°	34.1	34.1	34.1	34.1	32.9	32.9	32.9	31.8	30.5	28.0	25.6
80°	22.0	22.0	22.0	22.0	20.8	20.8	20.8	19.5	19.5	17.1	14.6
82.5°	13.4	13.4	13.4	13.4	13.4	13.4	12.2	12.2	11.0	9.8	8.5
85°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	6.1	6.1	4.9	3.6
87.5°	2.5	2.5	3.6	3.6	3.6	3.6	3.6	3.6	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°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1049.5	1050.8	1050.8	1050.8	1054.4	1055.6	1052.0	1048.2	1055.6	1054.4	1056.9
5°	1037.4	1041.0	1043.4	1044.6	1048.2	1050.8	1047.1	1045.9	1052.0	1053.1	1054.4
7.5°	1022.8	1028.8	1034.9	1037.4	1042.2	1044.6	1043.4	1043.4	1050.8	1053.1	1053.1
10°	1013.0	1021.5	1028.8	1034.9	1041.0	1044.6	1044.6	1045.9	1054.4	1056.9	1059.2
12.5°	1010.5	1021.5	1031.2	1039.8	1044.6	1050.8	1052.0	1055.6	1064.1	1067.8	1067.8
15°	1004.4	1019.0	1031.2	1042.2	1049.5	1056.9	1059.2	1066.6	1076.4	1078.8	1081.2
17.5°	993.5	1008.1	1022.8	1036.1	1045.9	1052.0	1059.2	1066.6	1078.8	1082.4	1083.6
20°	973.9	991.0	1005.6	1019.0	1028.8	1037.4	1044.6	1053.1	1064.1	1069.0	1070.2
22.5°	944.6	961.8	976.4	991.0	1000.8	1008.1	1015.4	1025.1	1036.1	1041.0	1041.0
25°	909.4	925.1	941.0	952.0	961.8	970.2	973.9	984.9	995.9	1002.0	1002.0
27.5°	864.2	878.9	893.5	905.6	911.8	919.1	925.1	934.9	943.5	948.4	953.2
30°	807.0	821.6	835.0	847.1	854.5	861.8	867.9	875.2	883.8	889.9	891.0
32.5°	744.8	757.0	770.4	782.5	789.9	792.4	798.4	805.8	813.0	817.9	819.1
35°	676.5	685.0	693.6	704.5	711.9	711.9	718.0	722.9	728.9	739.9	737.5
37.5°	596.1	608.2	614.4	618.0	622.9	627.8	629.0	635.1	642.4	644.9	648.5
40°	520.5	524.1	527.8	527.8	532.6	532.6	532.6	533.9	541.2	542.4	547.2
42.5°	444.9	444.9	441.2	437.6	438.9	437.6	431.5	431.5	435.1	440.0	440.0
45°	374.2	365.6	354.8	346.1	340.1	337.6	330.4	330.4	329.1	330.4	335.2
47.5°	314.5	299.9	281.6	264.5	258.4	253.5	242.6	237.8	235.2	236.5	238.9
50°	264.5	248.6	228.0	207.2	196.2	190.1	176.8	168.2	167.0	164.5	169.4
52.5°	228.0	208.5	186.5	162.1	151.1	141.4	126.8	119.5	114.6	114.6	115.8
55°	196.2	175.5	151.1	126.8	115.8	108.5	93.9	84.1	79.2	78.0	81.6
57.5°	169.4	149.9	125.5	101.1	90.2	81.6	67.0	58.5	54.9	52.4	53.6
60°	148.8	129.2	104.9	81.6	71.9	62.1	50.0	40.2	35.4	35.4	36.6
62.5°	129.2	110.9	89.0	67.0	58.5	50.0	36.6	28.0	24.4	23.1	24.4
65°	109.8	92.6	74.4	56.1	47.5	40.2	29.2	22.0	17.1	15.9	17.1
67.5°	89.0	75.6	59.8	45.1	37.8	31.8	22.0	15.9	12.2	11.0	12.2
70°	69.5	57.2	45.1	32.9	28.0	23.1	15.9	12.2	8.5	7.4	8.5
72.5°	50.0	41.5	31.8	23.1	19.5	15.9	11.0	8.5	6.1	4.9	6.1
75°	34.1	28.0	20.8	14.6	12.2	11.0	7.4	4.9	3.6	3.6	3.6
77.5°	22.0	17.1	13.4	9.8	7.4	6.1	3.6	2.5	2.5	2.5	2.5
80°	12.2	9.8	7.4	4.9	3.6	3.6	2.5	2.5	1.2	1.2	1.2
82.5°	7.4	4.9	3.6	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2
85°	3.6	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°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1052.0	1053.1	1049.5	1054.4	1050.8	1055.6	1055.6	1050.8	1052.0	1049.5	1054.4
5°	1049.5	1049.5	1047.1	1050.8	1045.9	1050.8	1049.5	1041.0	1043.4	1038.5	1043.4
7.5°	1049.5	1047.1	1043.4	1047.1	1041.0	1044.6	1039.8	1031.2	1028.8	1022.8	1022.8
10°	1053.1	1049.5	1044.6	1045.9	1039.8	1041.0	1033.6	1021.5	1017.9	1010.5	1008.1
12.5°	1061.8	1058.0	1050.8	1053.1	1044.6	1044.6	1034.9	1020.2	1013.0	1003.2	1000.8
15°	1073.9	1067.8	1059.2	1060.5	1052.0	1047.1	1034.9	1017.9	1008.1	994.6	991.0
17.5°	1076.4	1070.2	1059.2	1059.2	1048.2	1042.2	1027.6	1008.1	995.9	982.5	975.1
20°	1062.9	1056.9	1044.6	1043.4	1033.6	1025.1	1009.2	989.8	977.6	963.0	956.9
22.5°	1034.9	1027.6	1016.6	1015.4	1005.6	1000.8	983.6	964.1	952.0	937.4	932.5
25°	993.5	989.8	978.8	977.6	969.0	963.0	948.4	930.0	919.1	904.5	899.6
27.5°	944.6	941.0	930.0	930.0	920.2	916.6	903.2	886.1	877.6	864.2	858.1
30°	886.1	881.2	875.2	874.0	865.5	861.8	849.6	833.8	825.2	814.2	811.9
32.5°	816.8	813.0	809.4	808.1	799.6	796.0	787.4	771.6	764.2	754.5	750.9
35°	736.2	733.8	730.1	728.9	725.2	721.6	713.1	700.9	697.2	689.9	686.2
37.5°	643.6	646.0	643.6	643.6	640.0	641.1	633.9	626.5	622.9	618.0	615.6
40°	543.6	548.5	552.1	552.1	551.0	555.9	554.6	548.5	547.2	544.9	543.6
42.5°	442.5	444.9	452.2	457.1	455.9	468.1	469.2	474.1	477.9	475.4	476.6
45°	336.4	343.8	353.5	358.4	364.5	380.2	388.9	398.6	407.1	412.0	410.8
47.5°	242.6	251.1	262.1	269.4	280.4	299.9	321.8	334.0	346.1	352.2	358.4
50°	175.5	184.0	197.5	208.5	215.8	242.6	265.8	281.6	295.0	303.5	309.6
52.5°	123.1	132.9	147.5	157.2	168.2	193.8	220.6	238.9	253.5	264.5	270.6
55°	85.4	96.2	109.8	119.5	131.6	158.5	184.0	203.6	219.4	229.1	236.5
57.5°	59.8	69.5	82.9	91.4	103.6	129.2	154.8	174.2	190.1	199.9	208.5
60°	40.2	50.0	63.4	71.9	81.6	107.2	130.4	151.1	165.8	175.5	184.0
62.5°	28.0	36.6	50.0	58.5	67.0	89.0	110.9	129.2	143.9	154.8	162.1
65°	22.0	29.2	40.2	47.5	56.1	74.4	92.6	108.5	123.1	134.1	139.0
67.5°	15.9	23.1	31.8	37.8	43.9	59.8	75.6	87.8	101.1	109.8	115.8
70°	11.0	15.9	23.1	28.0	32.9	45.1	57.2	68.2	78.0	84.1	89.0
72.5°	8.5	11.0	15.9	19.5	23.1	31.8	41.5	50.0	57.2	62.1	67.0
75°	4.9	7.4	11.0	13.4	15.9	22.0	28.0	34.1	39.0	42.6	45.1
77.5°	2.5	3.6	6.1	7.4	9.8	13.4	18.2	22.0	25.6	28.0	30.5
80°	2.5	2.5	3.6	3.6	4.9	7.4	9.8	12.2	14.6	17.1	18.2
82.5°	1.2	1.2	2.5	2.5	2.5	3.6	4.9	7.4	8.5	9.8	11.0
85°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.6	4.9	6.1	6.1
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.6
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: P252558

CATALOG NUMBER: LE_6B15D010 EC6B10208030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1050.8	1053.1	1052.0	1054.4	1050.8	1049.5	1052.0	1048.2
5°	1037.4	1038.5	1037.4	1037.4	1034.9	1032.5	1034.9	1031.2
7.5°	1016.6	1016.6	1013.0	1013.0	1008.1	1005.6	1005.6	1004.4
10°	999.5	995.9	992.2	993.5	986.1	983.6	982.5	981.2
12.5°	991.0	988.5	982.5	982.5	975.1	972.8	971.5	970.2
15°	981.2	976.4	971.5	970.2	964.1	961.8	960.5	958.1
17.5°	964.1	960.5	954.4	954.4	948.4	947.1	944.6	943.5
20°	945.9	941.0	936.1	936.1	928.9	928.9	925.1	926.4
22.5°	920.2	916.6	911.8	911.8	905.6	904.5	900.8	899.6
25°	889.9	885.0	881.2	880.1	875.2	872.8	871.5	869.1
27.5°	849.6	846.0	842.2	839.9	833.8	832.5	828.9	830.1
30°	799.6	797.2	796.0	793.5	786.2	783.8	783.8	780.1
32.5°	744.8	741.1	738.6	735.0	728.9	727.8	724.0	725.2
35°	677.8	672.9	669.2	670.4	663.1	661.9	659.5	660.6
37.5°	608.2	603.4	598.5	597.2	591.1	591.1	587.5	587.5
40°	536.4	531.5	529.0	529.0	521.8	522.9	519.2	518.0
42.5°	471.8	466.9	465.6	464.4	460.8	459.5	455.9	457.1
45°	410.8	409.6	409.6	407.1	403.5	402.2	403.5	403.5
47.5°	357.1	358.4	357.1	357.1	354.8	357.1	354.8	355.9
50°	312.0	314.5	314.5	314.5	313.2	314.5	314.5	315.8
52.5°	274.2	277.9	276.8	277.9	276.8	279.1	277.9	279.1
55°	241.4	243.8	245.0	246.2	246.2	246.2	246.2	246.2
57.5°	210.9	214.5	215.8	217.0	217.0	219.4	217.0	217.0
60°	186.5	190.1	191.4	192.6	192.6	193.8	191.4	192.6
62.5°	164.5	168.2	168.2	169.4	169.4	169.4	167.0	168.2
65°	142.6	143.9	145.0	145.0	143.9	143.9	142.6	143.9
67.5°	118.2	119.5	118.2	118.2	117.0	117.0	114.6	115.8
70°	91.4	91.4	92.6	91.4	90.2	91.4	90.2	89.0
72.5°	68.2	68.2	68.2	67.0	67.0	65.9	67.0	67.0
75°	46.4	46.4	47.5	47.5	47.5	47.5	46.4	46.4
77.5°	30.5	30.5	30.5	30.5	31.8	30.5	30.5	30.5
80°	19.5	19.5	20.8	20.8	19.5	19.5	19.5	19.5
82.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
85°	7.4	7.4	7.4	7.4	6.1	6.1	6.1	6.1
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	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)