

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: P252368

Luminaire Tested: **LE_6B20D010 EC6B10209027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B20D010 EC6B10209027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

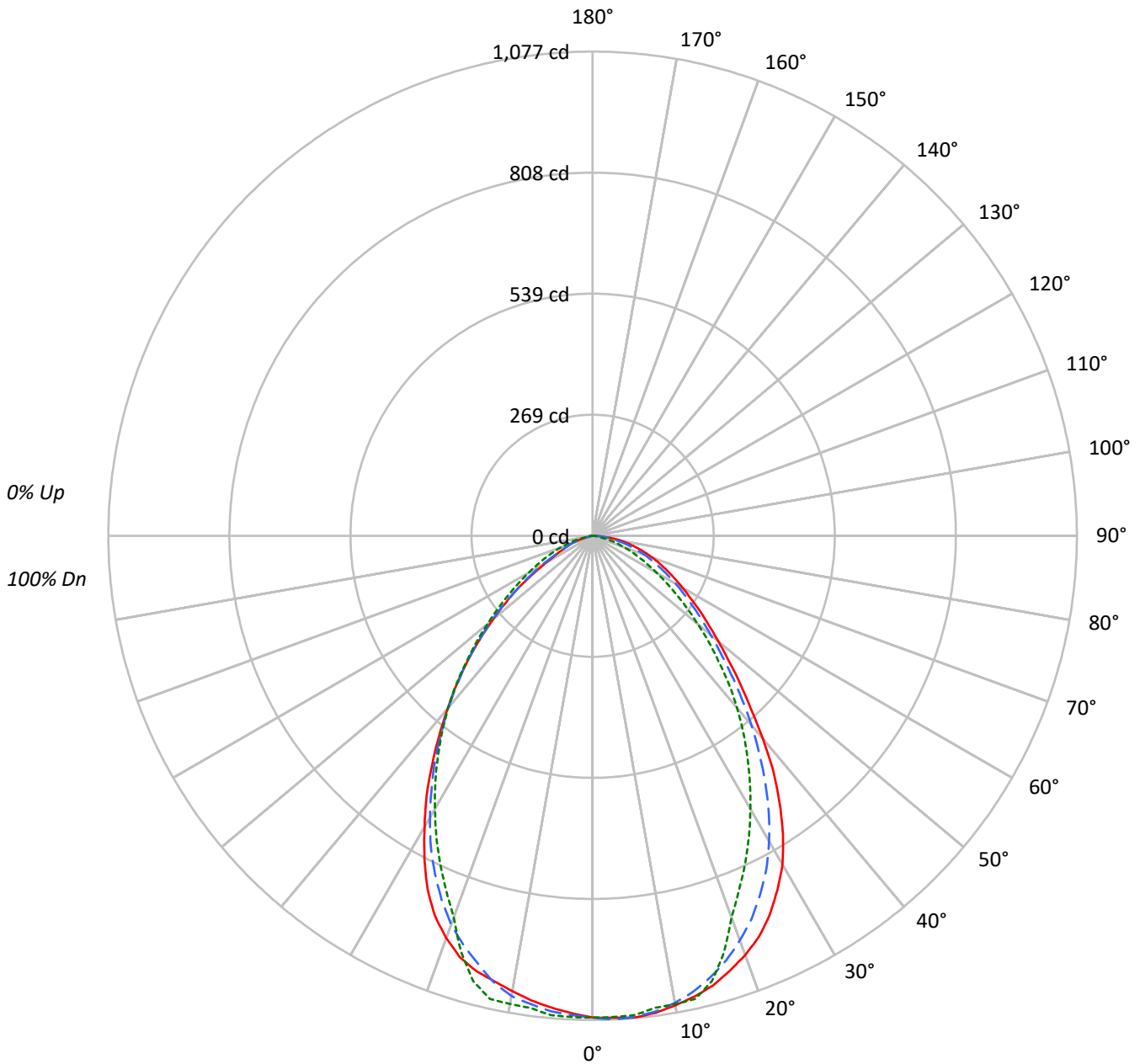
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	69912	69912	69912
5°	70454	70087	68994
10°	70255	70063	68135
15°	69933	69271	67677
20°	68886	62707	66088
25°	67018	57804	62512
30°	63642	52839	56304
35°	57750	47778	49547
40°	50128	42549	42668
45°	42755	36592	36214
50°	37006	30936	29241
55°	33088	25808	22635
60°	30141	21425	15253
65°	28127	17614	11393
70°	26800	14325	9557
75°	25257	10184	3151
80°	24045	5222	1052
85°	19837	3069	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	5.4
10°-20°	283.0	15.0
20°-30°	390.7	20.7
30°-40°	397.5	21.0
40°-50°	319.5	16.9
50°-60°	212.4	11.2
60°-70°	121.1	6.4
70°-80°	54.4	2.9
80°-90°	11.5	0.6
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°	774.9	41.0
0°-40°	1172.4	62.0
0°-60°	1704.4	90.1
0°-90°	1891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1072	1072	1072	1072	1072	
5°	1076	1074	1070	1062	1054	102
15°	1035	1016	1026	985	1002	291
25°	931	881	803	830	868	427
35°	725	669	600	611	622	451
45°	463	436	397	392	392	359
55°	291	271	227	202	199	261
65°	182	163	114	74	74	182
75°	100	84	40	17	12	107
85°	26	18	4	1	0	31
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°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1073.0	1078.5	1077.1	1075.8	1077.1	1075.8	1073.0	1073.0	1070.2	1070.2	1077.1
5°	1075.8	1078.5	1077.1	1075.8	1075.8	1077.1	1071.6	1071.6	1068.9	1067.4	1074.4
7.5°	1070.2	1074.4	1071.6	1071.6	1070.2	1071.6	1066.0	1066.0	1061.9	1060.5	1067.4
10°	1060.5	1066.0	1063.2	1063.2	1063.2	1060.5	1057.6	1056.2	1052.1	1050.8	1054.9
12.5°	1049.4	1053.5	1052.1	1049.4	1049.4	1049.4	1043.8	1042.4	1036.8	1034.0	1038.2
15°	1035.4	1038.2	1036.8	1035.4	1032.6	1032.6	1027.1	1024.2	1018.8	1013.1	1015.9
17.5°	1014.5	1018.8	1015.9	1014.5	1010.4	1010.4	1004.8	1002.0	993.6	988.1	989.5
20°	992.2	993.6	992.2	989.5	985.4	983.9	978.4	972.8	965.9	958.9	957.5
22.5°	965.9	967.2	963.0	960.2	956.1	954.8	947.8	943.6	932.4	924.1	922.8
25°	931.0	932.4	932.4	925.5	922.8	919.9	913.0	906.0	896.2	885.1	880.9
27.5°	889.2	893.5	890.6	883.8	878.1	876.8	869.8	864.2	851.8	842.0	836.4
30°	844.8	843.4	842.0	837.8	829.5	828.0	821.1	814.1	804.4	791.9	784.9
32.5°	787.8	787.8	786.2	782.1	773.8	771.0	765.4	757.1	746.0	736.2	729.2
35°	725.1	726.5	725.1	716.8	711.1	708.4	705.6	695.9	686.1	675.0	669.4
37.5°	659.6	655.5	656.9	649.9	643.0	645.8	637.4	633.2	622.1	613.8	608.1
40°	588.6	591.5	585.9	583.1	579.0	574.8	574.8	567.8	562.2	552.5	549.8
42.5°	519.1	523.2	521.9	519.1	513.5	514.9	508.0	505.1	498.2	494.0	489.9
45°	463.4	463.4	463.4	460.6	459.2	456.5	452.2	448.1	444.0	438.4	435.6
47.5°	409.1	409.1	410.5	407.8	405.0	403.6	400.8	400.8	393.9	388.2	385.5
50°	364.6	364.6	364.6	361.9	359.0	359.0	356.2	353.5	349.4	345.1	342.4
52.5°	324.2	324.2	324.2	321.5	320.1	318.8	317.2	315.9	310.4	307.6	304.8
55°	290.9	289.5	289.5	288.1	285.2	285.2	283.9	281.1	277.0	272.8	271.4
57.5°	257.5	258.9	257.5	257.5	254.6	254.6	251.9	250.5	246.4	243.5	240.8
60°	231.0	231.0	231.0	229.6	226.9	228.2	225.5	224.0	219.9	215.8	212.9
62.5°	204.6	206.0	206.0	204.6	201.8	201.8	200.4	199.0	194.9	190.6	186.5
65°	182.2	182.2	182.2	180.9	179.5	179.5	178.1	176.8	172.6	167.0	162.9
67.5°	161.4	160.0	160.0	160.0	158.6	157.2	155.9	154.5	150.2	146.1	140.5
70°	140.5	140.5	140.5	139.1	136.4	137.8	136.4	135.0	130.9	126.6	122.5
72.5°	121.1	121.1	119.6	118.2	118.2	116.9	116.9	115.5	111.4	105.8	101.6
75°	100.2	100.2	100.2	100.2	97.4	98.8	96.0	94.6	91.9	87.6	83.5
77.5°	82.1	82.1	82.1	80.8	79.4	79.4	77.9	76.5	72.4	69.6	64.0
80°	64.0	64.0	64.0	64.0	62.6	61.2	59.9	58.5	55.6	51.5	47.4
82.5°	47.4	47.4	45.9	45.9	45.9	44.5	43.1	41.8	39.0	36.1	33.4
85°	26.5	27.9	27.9	25.0	26.5	25.0	25.0	22.2	22.2	19.5	18.1
87.5°	9.8	8.4	8.4	8.4	8.4	8.4	8.4	7.0	7.0	7.0	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°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1071.6	1070.2	1075.8	1075.8	1067.4	1071.6	1073.0	1070.2	1070.2	1071.6	1067.4
5°	1068.9	1066.0	1071.6	1073.0	1064.6	1068.9	1070.2	1067.4	1068.9	1070.2	1064.6
7.5°	1059.1	1059.1	1063.2	1064.6	1056.2	1060.5	1060.5	1057.6	1059.1	1059.1	1054.9
10°	1049.4	1045.1	1049.4	1049.4	1042.4	1043.8	1046.5	1045.1	1050.8	1057.6	1057.6
12.5°	1031.2	1027.1	1034.0	1034.0	1029.9	1035.4	1042.4	1046.5	1052.1	1054.9	1046.5
15°	1009.0	1010.4	1022.9	1032.6	1028.5	1036.8	1043.8	1041.0	1034.0	1025.6	1013.1
17.5°	979.8	975.6	986.8	992.2	986.8	989.5	995.0	989.5	978.4	971.4	954.8
20°	946.4	935.2	935.2	932.4	922.8	922.8	921.2	911.5	907.4	903.2	896.2
22.5°	908.8	896.2	892.1	883.8	875.4	874.0	869.8	860.0	854.5	851.8	843.4
25°	865.6	854.5	847.5	839.1	826.6	823.9	819.8	810.0	807.1	803.0	796.0
27.5°	821.1	807.1	797.4	789.1	778.0	776.5	768.2	761.2	755.6	752.9	747.4
30°	769.6	754.2	747.4	736.2	727.9	725.1	718.1	708.4	704.2	701.4	697.2
32.5°	712.5	700.0	693.0	683.4	672.1	673.6	665.2	656.9	654.1	651.2	647.1
35°	656.9	644.4	636.0	627.6	620.8	617.9	612.4	605.4	601.2	599.9	597.0
37.5°	595.6	585.9	579.0	570.6	565.0	562.2	559.5	552.5	549.8	549.8	544.1
40°	535.8	527.5	521.9	517.8	510.8	509.4	506.6	502.4	501.0	499.6	495.5
42.5°	481.5	470.4	466.2	463.4	459.2	456.5	455.1	452.2	450.9	449.5	445.4
45°	430.0	420.2	416.1	413.4	409.1	407.8	406.4	402.2	399.4	396.6	395.2
47.5°	379.9	373.0	371.6	364.6	361.9	359.0	356.2	353.5	352.1	350.8	345.1
50°	336.8	332.6	325.6	321.5	318.8	317.2	311.8	307.6	306.1	304.8	300.6
52.5°	297.9	292.2	288.1	281.1	279.8	277.0	274.1	268.6	265.8	264.4	260.2
55°	263.0	258.9	253.2	247.8	243.5	242.1	238.0	232.4	229.6	226.9	224.0
57.5°	233.8	226.9	221.2	215.8	212.9	208.8	204.6	201.8	197.6	193.5	189.2
60°	206.0	200.4	193.5	187.9	185.1	182.2	176.8	172.6	168.4	164.2	160.0
62.5°	179.5	174.0	167.0	161.4	158.6	155.9	150.2	146.1	142.0	137.8	132.2
65°	155.9	150.2	144.8	139.1	136.4	133.6	128.0	122.5	118.2	114.1	108.5
67.5°	136.4	129.4	123.9	118.2	115.5	112.8	107.1	103.0	97.4	93.2	87.6
70°	115.5	110.0	105.8	100.2	97.4	94.6	89.1	83.5	79.4	75.1	69.6
72.5°	97.4	90.5	86.2	80.8	77.9	76.5	71.0	66.8	62.6	57.0	52.9
75°	77.9	72.4	66.8	62.6	59.9	58.5	52.9	48.8	44.5	40.4	36.1
77.5°	59.9	55.6	50.1	45.9	43.1	41.8	36.1	32.0	27.9	25.0	20.9
80°	44.5	39.0	36.1	32.0	30.6	27.9	25.0	20.9	18.1	13.9	11.1
82.5°	30.6	26.5	23.6	20.9	19.5	18.1	15.2	12.5	9.8	8.4	7.0
85°	16.8	13.9	12.5	11.1	9.8	9.8	8.4	7.0	5.6	4.1	2.8
87.5°	5.6	4.1	4.1	4.1	4.1	2.8	2.8	2.8	1.4	1.4	1.4
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°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1070.2	1070.2	1070.2	1068.9	1068.9	1068.9	1067.4	1073.0	1067.4	1066.0	1070.2
5°	1068.9	1066.0	1066.0	1066.0	1066.0	1064.6	1063.2	1066.0	1061.9	1060.5	1060.5
7.5°	1060.5	1059.1	1059.1	1057.6	1056.2	1054.9	1053.5	1054.9	1050.8	1049.4	1049.4
10°	1061.9	1059.1	1059.1	1054.9	1052.1	1048.0	1043.8	1045.1	1039.6	1035.4	1035.4
12.5°	1045.1	1038.2	1034.0	1029.9	1027.1	1025.6	1020.1	1022.9	1017.4	1015.9	1015.9
15°	1007.6	999.2	992.2	989.5	989.5	986.8	982.5	988.1	985.4	986.8	993.6
17.5°	949.1	945.0	940.8	939.4	940.8	943.6	946.4	954.8	954.8	958.9	965.9
20°	897.6	894.9	897.6	897.6	899.0	904.6	910.1	917.1	919.9	924.1	933.9
22.5°	847.5	847.5	850.4	854.5	853.1	862.9	864.2	876.8	876.8	885.1	893.5
25°	798.9	798.9	801.6	803.0	805.8	811.4	816.9	826.6	829.5	837.8	844.8
27.5°	751.5	750.1	750.1	751.5	754.2	761.2	764.0	775.1	779.4	784.9	791.9
30°	698.6	697.2	700.0	702.8	701.4	708.4	712.5	720.9	723.6	729.2	734.8
32.5°	648.5	648.5	648.5	651.2	651.2	656.9	656.9	666.6	666.6	670.8	676.4
35°	597.0	597.0	598.4	599.9	601.2	602.6	604.0	609.5	611.0	612.4	615.1
37.5°	548.4	546.9	548.4	548.4	545.5	551.1	551.1	556.6	552.5	556.6	558.1
40°	498.2	498.2	496.9	496.9	496.9	499.6	496.9	501.0	498.2	501.0	499.6
42.5°	446.8	446.8	444.0	446.8	445.4	445.4	445.4	448.1	444.0	446.8	448.1
45°	395.2	393.9	393.9	392.5	392.5	392.5	393.9	393.9	392.5	395.2	395.2
47.5°	345.1	343.8	343.8	343.8	343.8	345.1	341.0	343.8	341.0	341.0	341.0
50°	302.0	300.6	299.2	297.9	296.4	296.4	295.0	295.0	292.2	290.9	289.5
52.5°	260.2	258.9	256.1	256.1	254.6	253.2	249.1	249.1	244.9	243.5	243.5
55°	222.6	218.5	217.1	214.4	214.4	211.5	208.8	206.0	201.8	199.0	199.0
57.5°	187.9	183.8	180.9	179.5	178.1	175.4	169.8	168.4	162.9	161.4	160.0
60°	157.2	153.1	148.9	146.1	144.8	140.5	135.0	132.2	129.4	125.2	121.1
62.5°	128.0	123.9	118.2	116.9	114.1	110.0	105.8	101.6	98.8	94.6	91.9
65°	103.0	98.8	94.6	91.9	89.1	84.9	80.8	76.5	73.8	72.4	71.0
67.5°	83.5	77.9	73.8	72.4	69.6	66.8	62.6	61.2	58.5	58.5	58.5
70°	65.4	61.2	57.0	55.6	54.2	51.5	48.8	48.8	48.8	48.8	48.8
72.5°	48.8	45.9	41.8	40.4	39.0	37.6	34.8	36.1	34.8	34.8	34.8
75°	30.6	27.9	25.0	23.6	22.2	20.9	19.5	18.1	16.8	15.2	15.2
77.5°	16.8	13.9	12.5	11.1	11.1	9.8	8.4	8.4	7.0	7.0	7.0
80°	9.8	8.4	7.0	5.6	5.6	4.1	4.1	4.1	4.1	2.8	2.8
82.5°	5.6	4.1	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
85°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P252368

CATALOG NUMBER: LE_6B20D010 EC6B10209027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
2.5°	1063.2	1067.4	1063.2	1067.4	1067.4	1067.4	1067.4	1063.2
5°	1056.2	1059.1	1054.9	1057.6	1059.1	1057.6	1057.6	1053.5
7.5°	1043.8	1046.5	1042.4	1046.5	1048.0	1046.5	1045.1	1042.4
10°	1031.2	1032.6	1028.5	1031.2	1034.0	1034.0	1032.6	1028.5
12.5°	1011.8	1015.9	1011.8	1014.5	1017.4	1018.8	1018.8	1014.5
15°	989.5	996.5	993.6	997.9	1002.0	1003.4	1003.4	1002.0
17.5°	967.2	974.1	970.0	977.0	981.1	983.9	985.4	982.5
20°	935.2	943.6	940.8	946.4	951.9	956.1	956.1	951.9
22.5°	893.5	904.6	903.2	907.4	914.4	915.8	918.5	915.8
25°	847.5	855.9	854.5	858.6	867.0	867.0	868.4	868.4
27.5°	794.6	803.0	801.6	804.4	810.0	811.4	812.8	810.0
30°	737.6	741.8	741.8	746.0	750.1	751.5	751.5	747.4
32.5°	675.0	680.5	683.4	681.9	686.1	688.9	687.5	687.5
35°	617.9	619.2	620.8	622.1	623.5	626.2	623.5	622.1
37.5°	556.6	560.9	558.1	560.9	563.6	562.2	560.9	560.9
40°	501.0	502.4	499.6	502.4	503.8	503.8	503.8	501.0
42.5°	445.4	448.1	445.4	448.1	448.1	448.1	448.1	446.8
45°	389.6	392.5	392.5	393.9	393.9	392.5	392.5	392.5
47.5°	338.1	341.0	338.1	341.0	342.4	339.6	339.6	339.6
50°	289.5	288.1	288.1	289.5	289.5	289.5	289.5	288.1
52.5°	239.4	240.8	240.8	240.8	242.1	240.8	242.1	242.1
55°	196.2	196.2	196.2	197.6	196.2	196.2	197.6	199.0
57.5°	157.2	155.9	154.5	154.5	155.9	154.5	154.5	154.5
60°	121.1	119.6	118.2	118.2	118.2	118.2	118.2	116.9
62.5°	90.5	90.5	90.5	91.9	91.9	91.9	91.9	93.2
65°	72.4	72.4	72.4	72.4	72.4	72.4	72.4	73.8
67.5°	58.5	58.5	58.5	59.9	59.9	59.9	59.9	59.9
70°	48.8	48.8	50.1	48.8	50.1	50.1	50.1	50.1
72.5°	33.4	33.4	33.4	33.4	33.4	32.0	33.4	32.0
75°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	12.5
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	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)