

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: P252369

Luminaire Tested: **LE_6B20D010 EC6B10209030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252369
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 EC6B10209030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS 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: 1967.5 lumens
Efficiency: N/A
Efficacy: 94.6 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

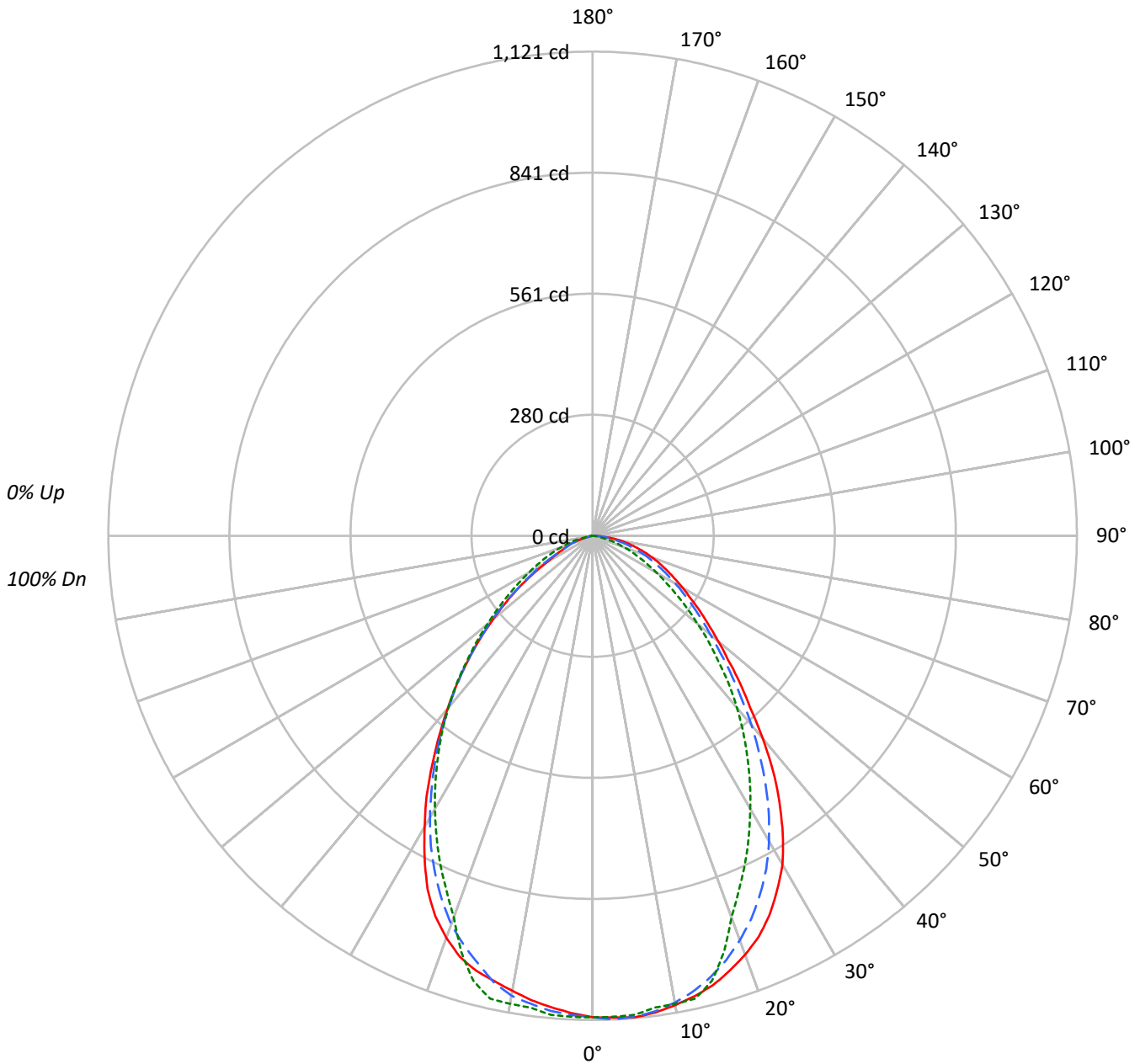
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	72730	72730	72730
5°	73290	72916	71777
10°	73084	72898	70878
15°	72750	72067	70406
20°	71663	65234	68747
25°	69725	60136	65031
30°	66203	54978	58572
35°	60068	49698	51538
40°	52155	44269	44388
45°	44481	38068	37662
50°	38508	32185	30429
55°	34419	26843	23545
60°	31368	22299	15867
65°	29269	18339	11856
70°	27888	14898	9938
75°	26266	10587	3277
80°	25022	5448	1090
85°	20585	3294	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	5.4
10°-20°	294.4	15.0
20°-30°	406.4	20.7
30°-40°	413.6	21.0
40°-50°	332.4	16.9
50°-60°	221.0	11.2
60°-70°	125.9	6.4
70°-80°	56.6	2.9
80°-90°	11.9	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°	806.1	41.0
0°-40°	1219.7	62.0
0°-60°	1773.1	90.1
0°-90°	1967.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1115	1115	1115	1115	1115	
5°	1119	1118	1113	1105	1096	106
15°	1077	1057	1067	1025	1042	303
25°	969	916	835	863	903	444
35°	754	696	624	636	647	469
45°	482	453	413	408	408	374
55°	303	282	236	210	207	272
65°	190	169	119	77	77	189
75°	104	87	42	17	13	111
85°	28	19	4	2	0	33
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°	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1116.2	1122.0	1120.6	1119.1	1120.6	1119.1	1116.2	1116.2	1113.4	1113.4	1120.6
5°	1119.1	1122.0	1120.6	1119.1	1119.1	1120.6	1114.8	1114.8	1111.9	1110.5	1117.8
7.5°	1113.4	1117.8	1114.8	1114.8	1113.4	1114.8	1109.0	1109.0	1104.6	1103.2	1110.5
10°	1103.2	1109.0	1106.1	1106.1	1106.1	1103.2	1100.4	1098.9	1094.5	1093.1	1097.4
12.5°	1091.6	1096.0	1094.5	1091.6	1091.6	1091.6	1085.9	1084.4	1078.6	1075.8	1080.0
15°	1077.1	1080.0	1078.6	1077.1	1074.2	1074.2	1068.5	1065.6	1059.8	1054.0	1056.9
17.5°	1055.5	1059.8	1056.9	1055.5	1051.1	1051.1	1045.2	1042.4	1033.8	1027.9	1029.4
20°	1032.2	1033.8	1032.2	1029.4	1025.0	1023.6	1017.8	1012.0	1004.8	997.5	996.1
22.5°	1004.8	1006.2	1001.9	999.0	994.6	993.1	986.0	981.6	970.0	961.4	959.9
25°	968.6	970.0	970.0	962.8	959.9	957.0	949.8	942.5	932.4	920.8	916.5
27.5°	925.1	929.5	926.6	919.4	913.5	912.1	904.9	899.1	886.0	875.9	870.1
30°	878.8	877.4	875.9	871.6	862.9	861.5	854.2	847.0	836.9	823.8	816.5
32.5°	819.5	819.5	818.0	813.6	805.0	802.1	796.2	787.6	776.0	765.9	758.6
35°	754.2	755.8	754.2	745.6	739.9	736.9	734.0	723.9	713.8	702.1	696.4
37.5°	686.2	681.9	683.4	676.1	668.9	671.8	663.1	658.8	647.1	638.5	632.6
40°	612.4	615.4	609.5	606.6	602.2	598.0	598.0	590.8	584.9	574.8	571.9
42.5°	540.0	544.4	542.9	540.0	534.2	535.6	528.5	525.5	518.2	514.0	509.6
45°	482.1	482.1	482.1	479.2	477.8	474.9	470.5	466.2	461.9	456.0	453.1
47.5°	425.6	425.6	427.1	424.2	421.2	419.9	417.0	417.0	409.8	403.9	401.0
50°	379.4	379.4	379.4	376.4	373.5	373.5	370.6	367.8	363.4	359.0	356.1
52.5°	337.4	337.4	337.4	334.5	333.0	331.5	330.1	328.6	322.9	320.0	317.1
55°	302.6	301.1	301.1	299.8	296.8	296.8	295.4	292.5	288.1	283.8	282.4
57.5°	267.9	269.2	267.9	267.9	265.0	265.0	262.0	260.6	256.2	253.4	250.5
60°	240.4	240.4	240.4	238.9	236.0	237.5	234.5	233.1	228.8	224.4	221.5
62.5°	212.9	214.2	214.2	212.9	209.9	209.9	208.5	207.0	202.8	198.4	194.0
65°	189.6	189.6	189.6	188.2	186.8	186.8	185.4	183.9	179.5	173.8	169.4
67.5°	168.0	166.5	166.5	166.5	165.0	163.6	162.1	160.8	156.4	152.0	146.2
70°	146.2	146.2	146.2	144.8	141.9	143.4	141.9	140.4	136.1	131.8	127.4
72.5°	126.0	126.0	124.5	123.1	123.1	121.6	121.6	120.1	115.9	110.0	105.8
75°	104.2	104.2	104.2	104.2	101.4	102.8	99.9	98.5	95.5	91.2	86.9
77.5°	85.4	85.4	85.4	84.0	82.5	82.5	81.1	79.6	75.2	72.4	66.6
80°	66.6	66.6	66.6	66.6	65.1	63.8	62.2	60.8	57.9	53.6	49.2
82.5°	49.2	49.2	47.8	47.8	47.8	46.4	44.9	43.4	40.5	37.6	34.8
85°	27.5	29.0	29.0	26.0	27.5	26.0	26.0	23.1	23.1	20.2	18.9
87.5°	10.1	8.6	8.6	8.6	8.6	8.6	8.6	7.2	7.2	7.2	5.8
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°	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1114.8	1113.4	1119.1	1119.1	1110.5	1114.8	1116.2	1113.4	1113.4	1114.8	1110.5
5°	1111.9	1109.0	1114.8	1116.2	1107.6	1111.9	1113.4	1110.5	1111.9	1113.4	1107.6
7.5°	1101.8	1101.8	1106.1	1107.6	1098.9	1103.2	1103.2	1100.4	1101.8	1101.8	1097.4
10°	1091.6	1087.2	1091.6	1091.6	1084.4	1085.9	1088.8	1087.2	1093.1	1100.4	1100.4
12.5°	1072.9	1068.5	1075.8	1075.8	1071.4	1077.1	1084.4	1088.8	1094.5	1097.4	1088.8
15°	1049.6	1051.1	1064.1	1074.2	1069.9	1078.6	1085.9	1083.0	1075.8	1067.0	1054.0
17.5°	1019.2	1014.9	1026.5	1032.2	1026.5	1029.4	1035.1	1029.4	1017.8	1010.5	993.1
20°	984.5	972.9	972.9	970.0	959.9	959.9	958.5	948.2	944.0	939.6	932.4
22.5°	945.4	932.4	928.0	919.4	910.6	909.2	904.9	894.8	889.0	886.0	877.4
25°	900.5	889.0	881.8	873.0	860.0	857.1	852.8	842.6	839.8	835.4	828.1
27.5°	854.2	839.8	829.6	820.9	809.4	807.9	799.1	792.0	786.1	783.2	777.5
30°	800.6	784.8	777.5	765.9	757.2	754.2	747.0	736.9	732.6	729.8	725.4
32.5°	741.2	728.2	721.0	710.9	699.2	700.8	692.0	683.4	680.5	677.6	673.2
35°	683.4	670.4	661.6	653.0	645.8	642.9	637.0	629.8	625.5	624.0	621.1
37.5°	619.6	609.5	602.2	593.6	587.8	584.9	582.0	574.8	571.9	571.9	566.1
40°	557.4	548.8	542.9	538.6	531.4	529.9	527.0	522.6	521.2	519.8	515.4
42.5°	500.9	489.4	485.0	482.1	477.8	474.9	473.4	470.5	469.1	467.6	463.2
45°	447.4	437.2	432.9	430.0	425.6	424.2	422.8	418.4	415.5	412.6	411.1
47.5°	395.2	388.0	386.5	379.4	376.4	373.5	370.6	367.8	366.2	364.9	359.0
50°	350.4	346.0	338.8	334.5	331.5	330.1	324.2	320.0	318.5	317.1	312.8
52.5°	309.9	304.0	299.8	292.5	291.0	288.1	285.2	279.4	276.5	275.1	270.8
55°	273.6	269.2	263.5	257.8	253.4	251.9	247.6	241.8	238.9	236.0	233.1
57.5°	243.2	236.0	230.2	224.4	221.5	217.1	212.9	209.9	205.6	201.2	196.9
60°	214.2	208.5	201.2	195.5	192.5	189.6	183.9	179.5	175.1	170.9	166.5
62.5°	186.8	181.0	173.8	168.0	165.0	162.1	156.4	152.0	147.6	143.4	137.5
65°	162.1	156.4	150.6	144.8	141.9	139.0	133.2	127.4	123.1	118.8	112.9
67.5°	141.9	134.6	128.9	123.1	120.1	117.2	111.5	107.1	101.4	97.0	91.2
70°	120.1	114.4	110.0	104.2	101.4	98.5	92.6	86.9	82.5	78.1	72.4
72.5°	101.4	94.1	89.8	84.0	81.1	79.6	73.9	69.5	65.1	59.4	55.0
75°	81.1	75.2	69.5	65.1	62.2	60.8	55.0	50.6	46.4	42.0	37.6
77.5°	62.2	57.9	52.1	47.8	44.9	43.4	37.6	33.2	29.0	26.0	21.8
80°	46.4	40.5	37.6	33.2	31.9	29.0	26.0	21.8	18.9	14.5	11.6
82.5°	31.9	27.5	24.6	21.8	20.2	18.9	15.9	13.0	10.1	8.6	7.2
85°	17.4	14.5	13.0	11.6	10.1	10.1	8.6	7.2	5.8	4.4	2.9
87.5°	5.8	4.4	4.4	4.4	4.4	2.9	2.9	2.9	1.5	1.5	1.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1113.4	1113.4	1113.4	1111.9	1111.9	1111.9	1110.5	1116.2	1110.5	1109.0	1113.4
5°	1111.9	1109.0	1109.0	1109.0	1109.0	1107.6	1106.1	1109.0	1104.6	1103.2	1103.2
7.5°	1103.2	1101.8	1101.8	1100.4	1098.9	1097.4	1096.0	1097.4	1093.1	1091.6	1091.6
10°	1104.6	1101.8	1101.8	1097.4	1094.5	1090.2	1085.9	1087.2	1081.5	1077.1	1077.1
12.5°	1087.2	1080.0	1075.8	1071.4	1068.5	1067.0	1061.2	1064.1	1058.4	1056.9	1056.9
15°	1048.2	1039.5	1032.2	1029.4	1029.4	1026.5	1022.1	1027.9	1025.0	1026.5	1033.8
17.5°	987.4	983.0	978.8	977.2	978.8	981.6	984.5	993.1	993.1	997.5	1004.8
20°	933.9	930.9	933.9	933.9	935.2	941.1	946.9	954.1	957.0	961.4	971.5
22.5°	881.8	881.8	884.6	889.0	887.5	897.6	899.1	912.1	912.1	920.8	929.5
25°	831.0	831.0	833.9	835.4	838.2	844.1	849.9	860.0	862.9	871.6	878.8
27.5°	781.8	780.4	780.4	781.8	784.8	792.0	794.9	806.4	810.8	816.5	823.8
30°	726.8	725.4	728.2	731.1	729.8	736.9	741.2	750.0	752.9	758.6	764.4
32.5°	674.6	674.6	674.6	677.6	677.6	683.4	683.4	693.5	693.5	697.9	703.6
35°	621.1	621.1	622.5	624.0	625.5	626.9	628.4	634.1	635.6	637.0	639.9
37.5°	570.4	569.0	570.4	570.4	567.5	573.4	573.4	579.1	574.8	579.1	580.6
40°	518.2	518.2	516.9	516.9	516.9	519.8	516.9	521.2	518.2	521.2	519.8
42.5°	464.8	464.8	461.9	464.8	463.2	463.2	463.2	466.2	461.9	464.8	466.2
45°	411.1	409.8	409.8	408.2	408.2	408.2	409.8	409.8	408.2	411.1	411.1
47.5°	359.0	357.6	357.6	357.6	357.6	359.0	354.8	357.6	354.8	354.8	354.8
50°	314.1	312.8	311.2	309.9	308.4	308.4	306.9	306.9	304.0	302.6	301.1
52.5°	270.8	269.2	266.4	266.4	265.0	263.5	259.1	259.1	254.8	253.4	253.4
55°	231.6	227.2	225.9	223.0	223.0	220.1	217.1	214.2	209.9	207.0	207.0
57.5°	195.5	191.1	188.2	186.8	185.4	182.4	176.6	175.1	169.4	168.0	166.5
60°	163.6	159.2	154.9	152.0	150.6	146.2	140.4	137.5	134.6	130.2	126.0
62.5°	133.2	128.9	123.1	121.6	118.8	114.4	110.0	105.8	102.8	98.5	95.5
65°	107.1	102.8	98.5	95.5	92.6	88.4	84.0	79.6	76.8	75.2	73.9
67.5°	86.9	81.1	76.8	75.2	72.4	69.5	65.1	63.8	60.8	60.8	60.8
70°	68.0	63.8	59.4	57.9	56.5	53.6	50.6	50.6	50.6	50.6	50.6
72.5°	50.6	47.8	43.4	42.0	40.5	39.1	36.2	37.6	36.2	36.2	36.2
75°	31.9	29.0	26.0	24.6	23.1	21.8	20.2	18.9	17.4	15.9	15.9
77.5°	17.4	14.5	13.0	11.6	11.6	10.1	8.6	8.6	7.2	7.2	7.2
80°	10.1	8.6	7.2	5.8	5.8	4.4	4.4	4.4	4.4	2.9	2.9
82.5°	5.8	4.4	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5	1.5
85°	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P252369

CATALOG NUMBER: LE_6B20D010 EC6B10209030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1106.1	1110.5	1106.1	1110.5	1110.5	1110.5	1110.5	1106.1
5°	1098.9	1101.8	1097.4	1100.4	1101.8	1100.4	1100.4	1096.0
7.5°	1085.9	1088.8	1084.4	1088.8	1090.2	1088.8	1087.2	1084.4
10°	1072.9	1074.2	1069.9	1072.9	1075.8	1075.8	1074.2	1069.9
12.5°	1052.5	1056.9	1052.5	1055.5	1058.4	1059.8	1059.8	1055.5
15°	1029.4	1036.6	1033.8	1038.1	1042.4	1043.9	1043.9	1042.4
17.5°	1006.2	1013.5	1009.1	1016.4	1020.8	1023.6	1025.0	1022.1
20°	972.9	981.6	978.8	984.5	990.2	994.6	994.6	990.2
22.5°	929.5	941.1	939.6	944.0	951.2	952.6	955.5	952.6
25°	881.8	890.4	889.0	893.2	902.0	902.0	903.4	903.4
27.5°	826.8	835.4	833.9	836.9	842.6	844.1	845.5	842.6
30°	767.4	771.6	771.6	776.0	780.4	781.8	781.8	777.5
32.5°	702.1	708.0	710.9	709.4	713.8	716.6	715.2	715.2
35°	642.9	644.2	645.8	647.1	648.6	651.5	648.6	647.1
37.5°	579.1	583.5	580.6	583.5	586.4	584.9	583.5	583.5
40°	521.2	522.6	519.8	522.6	524.1	524.1	524.1	521.2
42.5°	463.2	466.2	463.2	466.2	466.2	466.2	466.2	464.8
45°	405.4	408.2	408.2	409.8	409.8	408.2	408.2	408.2
47.5°	351.9	354.8	351.9	354.8	356.1	353.2	353.2	353.2
50°	301.1	299.8	299.8	301.1	301.1	301.1	301.1	299.8
52.5°	249.0	250.5	250.5	250.5	251.9	250.5	251.9	251.9
55°	204.1	204.1	204.1	205.6	204.1	204.1	205.6	207.0
57.5°	163.6	162.1	160.8	160.8	162.1	160.8	160.8	160.8
60°	126.0	124.5	123.1	123.1	123.1	123.1	123.1	121.6
62.5°	94.1	94.1	94.1	95.5	95.5	95.5	95.5	97.0
65°	75.2	75.2	75.2	75.2	75.2	75.2	75.2	76.8
67.5°	60.8	60.8	60.8	62.2	62.2	62.2	62.2	62.2
70°	50.6	50.6	52.1	50.6	52.1	52.1	52.1	52.1
72.5°	34.8	34.8	34.8	34.8	34.8	33.2	34.8	33.2
75°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	13.0
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	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)