

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: P252248

Luminaire Tested: **LE\_6B15D010 EC6B10208040 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B15D010 EC6B10208040 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1755.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

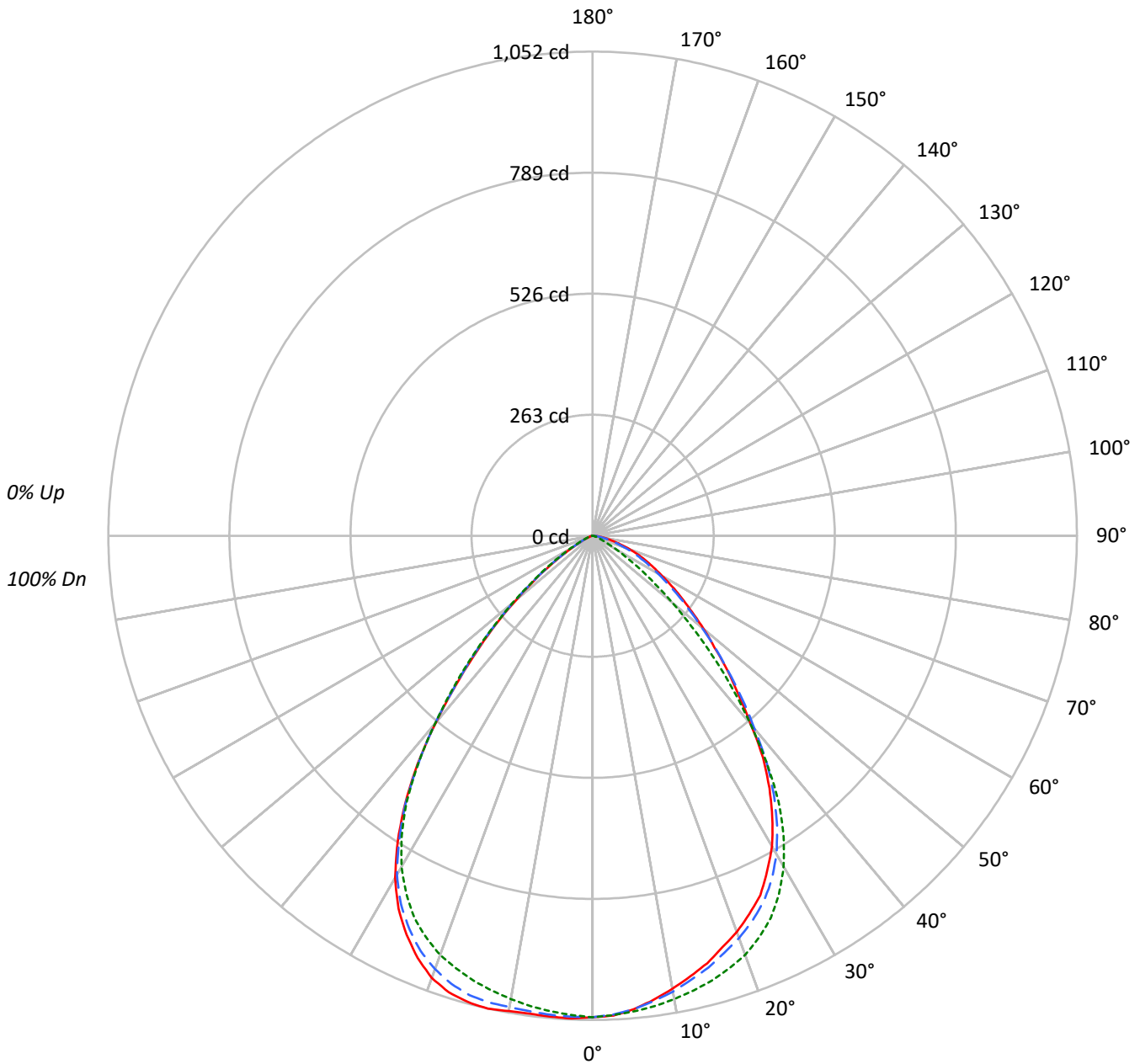
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252248

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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	68248	68248	68248
5°	67599	67926	68673
10°	66207	67711	69467
15°	64942	67583	70825
20°	63596	67275	70962
25°	62022	65938	68847
30°	58722	62527	64629
35°	53330	56054	56547
40°	45512	45300	45087
45°	38234	33916	32865
50°	31931	22948	21801
55°	26866	14081	12796
60°	22756	7424	6420
65°	19698	3890	3118
70°	16385	2403	1698
75°	12099	1613	958
80°	9468	939	451
85°	7560	898	0



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CATALOG NUMBER: LE\_6B15D010 EC6B10208040 6LBSW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	5.6
10°-20°	282.3	16.1
20°-30°	416.8	23.8
30°-40°	429.6	24.5
40°-50°	296.7	16.9
50°-60°	146.3	8.3
60°-70°	59.3	3.4
70°-80°	21.1	1.2
80°-90°	4.3	0.2
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°	797.7	45.5
0°-40°	1227.3	69.9
0°-60°	1670.3	95.2
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1046	1046	1046	1046	1046	
5°	1032	1032	1037	1045	1049	97
15°	962	972	1001	1034	1049	271
25°	862	878	916	942	956	394
35°	670	686	704	708	710	415
45°	414	417	368	363	356	320
55°	236	227	124	116	112	213
65°	128	115	25	20	20	127
75°	48	40	6	4	4	54
85°	10	8	1	0	0	12
90°	0	0	0	0	0	



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CATALOG NUMBER: LE\_6B15D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1043.5	1039.8	1042.2	1037.2	1043.5	1037.2	1038.5	1039.8	1038.5	1039.8	1041.0
5°	1032.2	1028.4	1032.2	1025.9	1032.2	1028.4	1028.4	1029.6	1029.6	1030.9	1032.2
7.5°	1017.0	1013.2	1017.0	1010.8	1018.2	1014.5	1014.5	1017.0	1015.8	1017.0	1019.5
10°	999.4	994.2	998.1	994.2	1001.9	996.9	999.4	999.4	999.4	1003.1	1005.6
12.5°	980.4	975.4	980.4	974.1	981.6	977.9	979.1	982.9	984.1	986.8	988.0
15°	961.5	955.1	957.6	953.9	961.5	957.6	958.9	964.0	964.0	967.8	971.5
17.5°	937.4	932.4	937.4	932.4	938.8	936.1	938.8	942.5	942.5	946.2	950.1
20°	916.0	910.9	914.8	910.9	918.5	914.8	916.0	921.0	922.2	926.1	929.9
22.5°	889.4	885.6	888.1	884.4	892.0	889.4	890.8	895.8	897.0	899.5	905.9
25°	861.6	854.0	857.9	855.4	862.9	859.1	861.6	866.6	869.2	873.0	878.0
27.5°	821.2	817.4	820.0	820.0	826.2	822.5	823.8	828.8	832.6	836.4	842.6
30°	779.5	773.2	775.8	777.0	782.0	779.5	782.0	787.1	788.4	793.4	798.5
32.5°	726.5	723.9	729.0	726.5	729.0	729.0	730.2	734.0	736.5	739.1	745.4
35°	669.6	664.5	669.6	667.1	673.4	669.6	673.4	677.1	677.1	682.2	686.0
37.5°	607.8	601.4	603.9	603.9	606.4	605.1	605.1	611.5	612.8	616.5	620.4
40°	534.4	531.9	537.0	535.6	537.0	537.0	538.2	542.0	544.5	545.8	547.0
42.5°	468.8	470.0	471.2	471.2	471.2	471.2	471.2	476.2	475.0	478.9	480.1
45°	414.4	409.4	411.9	410.6	414.4	410.6	414.4	418.1	415.6	419.5	416.9
47.5°	358.8	358.8	358.8	357.5	360.1	358.8	361.4	362.6	362.6	362.6	361.4
50°	314.6	310.8	312.0	312.0	313.4	312.0	314.6	315.9	315.9	313.4	308.2
52.5°	271.6	270.4	270.4	272.9	272.9	271.6	271.6	271.6	271.6	267.9	265.2
55°	236.2	233.8	235.0	235.0	235.0	235.0	236.2	235.0	235.0	231.2	227.4
57.5°	204.6	202.1	202.1	202.1	203.4	202.1	202.1	202.1	200.9	197.1	192.0
60°	174.4	173.1	174.4	174.4	175.6	174.4	174.4	174.4	171.9	168.0	163.0
62.5°	149.1	149.1	149.1	150.4	150.4	149.1	149.1	147.9	146.5	141.5	136.5
65°	127.6	126.4	127.6	127.6	128.9	128.9	127.6	126.4	125.1	120.0	115.0
67.5°	106.1	104.9	106.1	106.1	107.4	106.1	106.1	106.1	102.4	99.8	94.8
70°	85.9	84.6	84.6	84.6	85.9	83.4	84.6	84.6	82.1	78.4	73.2
72.5°	65.8	65.8	65.8	65.8	65.8	65.8	64.4	64.4	61.9	58.1	55.6
75°	48.0	48.0	49.2	49.2	48.0	48.0	48.0	46.8	45.5	43.0	40.4
77.5°	35.4	35.4	35.4	35.4	34.1	34.1	34.1	32.9	31.6	30.4	27.8
80°	25.2	25.2	25.2	24.0	25.2	24.0	24.0	24.0	21.5	20.2	19.0
82.5°	17.6	16.4	16.4	16.4	16.4	16.4	16.4	15.1	15.1	13.9	12.6
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	8.9	7.6	7.6
87.5°	5.0	6.4	6.4	6.4	6.4	6.4	6.4	5.0	5.0	5.0	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: P252248

CATALOG NUMBER: LE\_6B15D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1041.0	1041.0	1043.5	1039.8	1046.1	1042.2	1041.0	1047.4	1043.5	1042.2	1044.9
5°	1032.2	1033.5	1034.8	1032.2	1038.5	1034.8	1034.8	1041.0	1038.5	1037.2	1041.0
7.5°	1020.9	1022.1	1024.6	1023.4	1028.4	1025.9	1027.1	1033.5	1030.9	1030.9	1034.8
10°	1006.9	1009.5	1012.0	1012.0	1018.2	1015.8	1015.8	1023.4	1020.9	1022.1	1027.1
12.5°	990.5	994.2	998.1	999.4	1005.6	1001.9	1003.1	1012.0	1010.8	1012.0	1017.0
15°	972.8	977.9	981.6	981.6	989.2	985.5	989.2	998.1	995.5	1000.6	1006.9
17.5°	952.6	957.6	962.8	964.0	971.5	969.0	974.1	982.9	982.9	985.5	993.0
20°	933.6	940.0	942.5	946.2	953.9	952.6	955.1	965.2	965.2	969.0	976.6
22.5°	908.4	914.8	919.8	923.5	929.9	929.9	933.6	942.5	942.5	945.0	952.6
25°	880.6	888.1	892.0	895.8	902.0	900.8	904.6	912.1	913.4	916.0	923.5
27.5°	845.2	851.5	856.6	859.1	868.0	862.9	866.6	875.5	874.2	876.8	883.1
30°	801.0	807.2	812.4	812.4	820.0	820.0	823.8	827.5	827.5	830.0	835.1
32.5°	749.2	756.8	756.8	760.5	765.6	760.5	765.6	770.6	768.1	771.9	775.8
35°	689.8	693.6	694.9	694.9	698.6	697.4	696.1	699.9	697.4	703.8	707.5
37.5°	617.8	622.9	620.4	622.9	621.6	617.8	617.8	624.1	619.0	620.4	624.1
40°	548.2	548.2	547.0	540.8	542.0	538.2	537.0	538.2	533.1	531.9	537.0
42.5°	476.2	475.0	471.2	462.4	463.6	457.4	452.2	452.2	449.8	448.5	449.8
45°	411.9	408.1	401.8	391.6	389.1	384.1	374.0	371.4	367.6	367.6	368.9
47.5°	352.5	347.4	337.4	326.0	319.6	313.4	303.2	299.4	293.1	290.6	293.1
50°	303.2	294.4	281.8	265.2	259.0	251.4	241.2	235.0	228.6	226.1	224.9
52.5°	257.8	245.1	232.5	212.2	207.2	199.6	185.8	179.4	173.1	168.0	168.0
55°	218.6	207.2	189.5	170.5	163.0	155.4	141.5	132.6	126.4	123.8	121.2
57.5°	183.2	170.5	154.1	133.9	126.4	118.8	104.9	96.0	89.8	85.9	83.4
60°	154.1	140.2	123.8	106.1	97.2	89.8	75.8	67.0	60.6	56.9	54.4
62.5°	126.4	115.0	98.5	82.1	74.5	67.0	55.6	46.8	40.4	37.9	34.1
65°	106.1	94.8	79.6	65.8	59.4	51.8	41.8	34.1	29.0	25.2	22.8
67.5°	85.9	77.1	64.4	51.8	45.5	40.4	31.6	25.2	20.2	17.6	16.4
70°	68.2	59.4	49.2	39.1	35.4	30.4	24.0	17.6	15.1	12.6	11.4
72.5°	50.5	44.2	36.6	29.0	25.2	22.8	16.4	13.9	10.1	8.9	7.6
75°	36.6	31.6	26.5	20.2	17.6	16.4	12.6	8.9	7.6	6.4	5.0
77.5°	25.2	22.8	17.6	13.9	12.6	11.4	8.9	6.4	5.0	3.8	3.8
80°	16.4	13.9	11.4	8.9	8.9	7.6	5.0	3.8	3.8	2.5	2.5
82.5°	10.1	8.9	7.6	6.4	5.0	5.0	3.8	2.5	2.5	1.2	1.2
85°	6.4	5.0	3.8	3.8	2.5	2.5	2.5	1.2	1.2	1.2	1.2
87.5°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	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: P252248

CATALOG NUMBER: LE\_6B15D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1044.9	1044.9	1047.4	1043.5	1046.1	1046.1	1048.6	1043.5	1046.1	1047.4	1049.9
5°	1039.8	1041.0	1043.5	1042.2	1043.5	1043.5	1046.1	1039.8	1044.9	1044.9	1048.6
7.5°	1034.8	1034.8	1037.2	1036.0	1038.5	1039.8	1042.2	1037.2	1042.2	1042.2	1046.1
10°	1028.4	1028.4	1032.2	1030.9	1034.8	1036.0	1039.8	1034.8	1039.8	1041.0	1044.9
12.5°	1019.5	1020.9	1024.6	1024.6	1028.4	1030.9	1034.8	1032.2	1038.5	1039.8	1044.9
15°	1009.5	1012.0	1017.0	1015.8	1019.5	1023.4	1028.4	1024.6	1033.5	1036.0	1041.0
17.5°	996.9	999.4	1003.1	1003.1	1006.9	1009.5	1015.8	1013.2	1020.9	1022.1	1028.4
20°	977.9	981.6	986.8	985.5	989.2	991.8	996.9	994.2	1001.9	1004.4	1010.8
22.5°	955.1	957.6	961.5	961.5	965.2	967.8	972.8	969.0	976.6	977.9	982.9
25°	924.8	927.4	929.9	931.1	934.9	936.1	938.8	936.1	942.5	943.8	950.1
27.5°	885.6	886.9	890.8	890.8	893.2	894.5	898.2	893.2	902.0	902.0	905.9
30°	838.9	837.6	842.6	840.1	842.6	842.6	846.5	844.0	850.2	847.8	851.5
32.5°	777.0	779.5	779.5	777.0	782.0	780.8	780.8	778.2	782.0	783.2	785.9
35°	705.0	708.8	708.8	710.0	711.2	707.5	708.8	701.1	707.5	708.8	710.0
37.5°	626.6	622.9	625.4	621.6	627.9	620.4	620.4	615.2	620.4	620.4	621.6
40°	537.0	535.6	538.2	535.6	534.4	533.1	530.6	526.9	531.9	529.4	533.1
42.5°	452.2	451.0	451.0	448.5	447.2	447.2	444.8	442.1	440.9	440.9	447.2
45°	365.1	367.6	365.1	363.9	366.4	363.9	365.1	360.1	362.6	360.1	362.6
47.5°	291.9	293.1	290.6	288.0	291.9	288.0	288.0	284.2	289.4	289.4	286.8
50°	226.1	224.9	222.4	224.9	223.6	223.6	223.6	219.9	222.4	218.6	221.1
52.5°	166.8	165.5	165.5	164.2	165.5	164.2	164.2	163.0	163.0	161.8	163.0
55°	121.2	120.0	117.5	117.5	117.5	118.8	117.5	116.2	116.2	115.0	116.2
57.5°	82.1	79.6	79.6	79.6	79.6	78.4	78.4	77.1	78.4	77.1	78.4
60°	53.0	53.0	50.5	50.5	50.5	50.5	50.5	49.2	50.5	50.5	50.5
62.5°	32.9	32.9	31.6	30.4	31.6	30.4	30.4	30.4	31.6	30.4	31.6
65°	21.5	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
67.5°	15.1	13.9	13.9	13.9	13.9	13.9	13.9	12.6	13.9	13.9	13.9
70°	10.1	10.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P252248

CATALOG NUMBER: LE\_6B15D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1046.1	1047.4	1044.9	1046.1	1043.5	1046.1	1047.4	1049.9
5°	1043.5	1044.9	1042.2	1044.9	1042.2	1044.9	1046.1	1048.6
7.5°	1041.0	1043.5	1041.0	1043.5	1041.0	1043.5	1044.9	1047.4
10°	1041.0	1044.9	1042.2	1046.1	1042.2	1044.9	1047.4	1048.6
12.5°	1041.0	1044.9	1043.5	1046.1	1044.9	1047.4	1049.9	1052.4
15°	1038.5	1042.2	1039.8	1043.5	1042.2	1043.5	1048.6	1048.6
17.5°	1024.6	1028.4	1028.4	1030.9	1030.9	1034.8	1037.2	1039.8
20°	1006.9	1010.8	1009.5	1013.2	1013.2	1017.0	1019.5	1022.1
22.5°	980.4	985.5	984.1	988.0	986.8	989.2	994.2	993.0
25°	946.2	952.6	951.4	953.9	952.6	952.6	955.1	956.4
27.5°	904.6	908.4	907.1	909.6	907.1	909.6	912.1	913.4
30°	850.2	852.8	851.5	852.8	851.5	854.0	855.4	857.9
32.5°	784.6	788.4	784.6	787.1	785.9	785.9	790.9	788.4
35°	706.2	707.5	708.8	708.8	706.2	707.5	710.0	710.0
37.5°	619.0	625.4	617.8	621.6	620.4	620.4	620.4	624.1
40°	528.1	529.4	526.9	526.9	526.9	525.6	530.6	529.4
42.5°	442.1	443.5	442.1	438.4	439.6	439.6	443.5	438.4
45°	358.8	361.4	360.1	360.1	357.5	357.5	358.8	356.2
47.5°	284.2	286.8	283.0	284.2	281.8	284.2	283.0	285.5
50°	216.0	218.6	217.2	218.6	218.6	216.0	219.9	214.8
52.5°	161.8	163.0	161.8	160.5	159.1	159.1	161.8	160.5
55°	115.0	113.8	113.8	113.8	115.0	115.0	113.8	112.5
57.5°	77.1	77.1	75.8	75.8	77.1	74.5	75.8	74.5
60°	49.2	49.2	49.2	49.2	48.0	49.2	49.2	49.2
62.5°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
65°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
67.5°	12.6	13.9	13.9	13.9	12.6	12.6	12.6	12.6
70°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	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)