

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: P252476

Luminaire Tested: **LE\_6B20D010 EC6B10209050 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B20D010 EC6B10209050 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1885.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

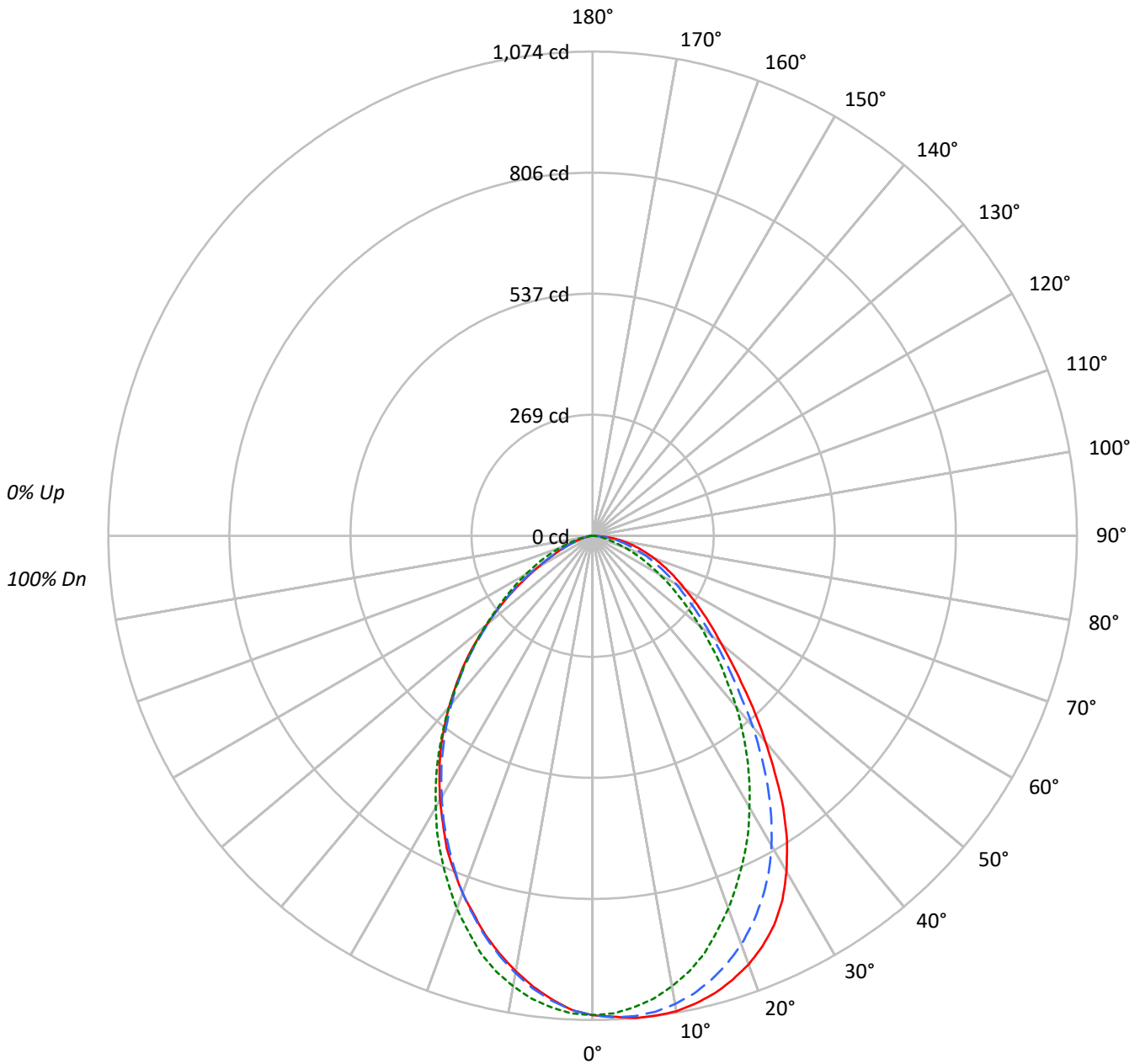
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100				
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33				

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

	0°	90°	180°
0°	69377	69377	69377
5°	70323	68771	67612
10°	70937	67214	64975
15°	70926	64739	61950
20°	70247	61110	58555
25°	68573	56983	55076
30°	64757	52402	50963
35°	58698	47532	46926
40°	50691	42259	42140
45°	43466	36795	37072
50°	37777	31474	31038
55°	33941	26548	24864
60°	30846	22364	18293
65°	28960	18463	13446
70°	27621	14383	9881
75°	26442	10436	6705
80°	24984	7214	4471
85°	22082	4416	2246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	5.3
10°-20°	272.4	14.5
20°-30°	378.2	20.1
30°-40°	391.8	20.8
40°-50°	321.9	17.1
50°-60°	221.3	11.7
60°-70°	127.2	6.7
70°-80°	58.5	3.1
80°-90°	14.3	0.8
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°	750.1	39.8
0°-40°	1141.9	60.6
0°-60°	1685.1	89.4
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1063	1063	1063	1063	1063	
5°	1074	1069	1050	1035	1032	102
15°	1050	1019	958	920	917	296
25°	953	889	792	758	765	436
35°	737	676	597	579	589	457
45°	471	436	399	394	402	367
55°	298	270	233	220	219	269
65°	188	164	120	84	87	187
75°	105	83	41	27	27	111
85°	30	21	6	3	3	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°	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1067.9	1076.8	1070.8	1069.4	1072.2	1072.2	1072.2	1067.9	1070.8	1066.4	1069.4
5°	1073.8	1081.1	1075.2	1072.2	1075.2	1076.8	1072.2	1069.4	1073.8	1067.9	1069.4
7.5°	1073.8	1081.1	1075.2	1073.8	1075.2	1075.2	1073.8	1067.9	1070.8	1064.9	1064.9
10°	1070.8	1076.8	1070.8	1067.9	1069.4	1067.9	1067.9	1060.5	1062.0	1054.5	1054.5
12.5°	1062.0	1069.4	1062.0	1059.0	1059.0	1059.0	1054.5	1048.6	1050.1	1041.2	1039.8
15°	1050.1	1056.0	1048.6	1045.8	1045.8	1044.2	1041.2	1032.4	1032.4	1023.5	1019.1
17.5°	1032.4	1038.2	1032.4	1028.0	1026.5	1023.5	1020.6	1011.8	1008.8	998.4	994.0
20°	1011.8	1016.1	1010.2	1005.9	1002.9	999.9	994.0	985.1	982.1	971.9	964.5
22.5°	985.1	991.0	982.1	977.8	974.8	970.4	964.5	955.6	951.1	937.9	929.0
25°	952.6	955.6	948.2	943.8	937.9	934.9	930.5	918.6	914.2	899.5	889.1
27.5°	911.2	914.2	905.4	902.4	895.0	892.1	886.1	875.9	869.9	855.1	844.9
30°	859.6	862.5	856.6	852.2	846.2	840.4	836.0	825.6	816.8	802.0	793.1
32.5°	802.0	806.4	800.5	794.6	784.2	785.8	778.4	768.0	760.6	747.4	737.0
35°	737.0	740.0	732.6	731.1	725.2	719.2	711.9	704.5	700.1	685.4	676.5
37.5°	664.6	672.0	664.6	658.8	655.8	651.4	646.9	636.6	633.6	624.8	613.0
40°	595.2	599.6	595.2	589.2	584.9	584.9	579.0	573.1	565.6	556.9	552.4
42.5°	533.1	530.2	528.8	525.8	519.9	518.4	517.0	509.5	505.1	496.2	488.9
45°	471.1	472.6	469.6	468.2	463.8	460.9	457.9	452.0	450.5	441.6	435.8
47.5°	419.5	418.0	415.0	415.0	412.1	409.1	406.1	401.8	400.2	392.9	387.0
50°	372.2	373.6	372.2	370.8	366.2	364.8	361.9	358.9	356.0	348.6	342.6
52.5°	333.8	332.4	330.9	330.9	326.4	324.9	322.0	319.0	316.1	308.6	304.2
55°	298.4	298.4	296.9	295.4	291.0	289.5	288.0	285.0	280.6	274.8	270.2
57.5°	265.9	265.9	264.4	262.9	260.0	260.0	257.0	254.0	251.1	245.1	239.2
60°	236.4	237.8	236.4	234.9	231.9	231.9	230.4	226.0	224.5	217.1	212.6
62.5°	211.2	211.2	211.2	209.8	208.2	205.2	205.2	200.9	197.9	193.5	187.6
65°	187.6	187.6	187.6	186.1	183.1	181.6	180.2	177.2	174.2	169.9	164.0
67.5°	165.4	165.4	165.4	164.0	161.0	159.5	158.0	156.5	152.1	147.8	141.8
70°	144.8	144.8	143.2	141.8	140.2	138.9	137.4	134.4	131.5	125.5	121.1
72.5°	124.1	124.1	124.1	121.1	119.6	119.6	116.6	115.2	112.2	106.4	101.9
75°	104.9	103.4	103.4	101.9	100.4	99.0	97.5	96.0	91.6	88.6	82.8
77.5°	85.6	85.6	84.1	82.8	82.8	81.2	79.8	76.8	75.4	70.9	66.5
80°	66.5	66.5	66.5	66.5	65.0	63.5	63.5	60.5	59.1	54.6	51.8
82.5°	50.2	48.8	48.8	48.8	47.2	45.8	45.8	44.2	42.9	39.9	36.9
85°	29.5	28.0	28.0	28.0	26.6	26.6	25.1	25.1	23.6	20.6	20.6
87.5°	8.9	8.9	10.4	10.4	8.9	8.9	8.9	8.9	8.9	7.4	7.4
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1066.4	1070.8	1064.9	1063.4	1069.4	1066.4	1064.9	1062.0	1063.4	1060.5	1056.0
5°	1064.9	1070.8	1063.4	1059.0	1066.4	1062.0	1059.0	1056.0	1056.0	1050.1	1047.1
7.5°	1060.5	1063.4	1056.0	1051.6	1056.0	1051.6	1048.6	1044.2	1042.8	1035.4	1030.9
10°	1048.6	1051.6	1042.8	1036.9	1041.2	1035.4	1030.9	1026.5	1023.5	1014.6	1008.8
12.5°	1032.4	1033.9	1023.5	1016.1	1019.1	1014.6	1007.2	1001.4	998.4	989.6	982.1
15°	1010.2	1011.8	999.9	989.6	992.5	986.6	977.8	971.9	967.4	958.5	948.2
17.5°	983.6	982.1	968.9	958.5	960.0	952.6	943.8	934.9	929.0	918.6	911.2
20°	954.1	949.8	934.9	923.1	924.6	915.8	905.4	896.5	889.1	880.2	869.9
22.5°	917.2	911.2	898.0	883.2	884.8	877.4	862.5	855.1	847.8	836.0	827.1
25°	877.4	868.5	855.1	840.4	840.4	831.5	819.8	810.9	803.5	791.6	781.4
27.5°	830.0	825.6	807.9	796.1	794.6	785.8	775.4	765.1	756.2	745.9	735.5
30°	778.4	771.0	757.6	744.4	741.5	734.0	723.8	711.9	706.0	695.6	686.8
32.5°	723.8	716.4	701.5	688.2	686.8	680.9	672.0	660.2	654.2	646.9	641.0
35°	661.6	658.8	644.0	633.6	633.6	627.8	618.9	608.5	604.1	596.8	589.2
37.5°	602.6	598.1	584.9	576.0	576.0	568.6	559.8	555.4	550.9	545.0	540.6
40°	540.6	537.6	527.2	518.4	519.9	514.0	508.1	502.1	499.2	496.2	491.9
42.5°	483.0	480.0	472.6	465.2	465.2	460.9	454.9	450.5	447.5	443.1	441.6
45°	431.2	426.9	420.9	413.5	413.5	409.1	406.1	403.2	401.8	398.8	394.4
47.5°	381.0	378.1	372.2	364.8	364.8	364.8	358.9	354.5	354.5	351.5	350.0
50°	338.2	333.8	329.4	323.5	323.5	320.5	316.1	311.6	311.6	310.1	307.2
52.5°	298.4	295.4	289.5	283.6	283.6	280.6	276.2	274.8	273.2	268.8	267.4
55°	264.4	261.4	257.0	249.6	248.1	246.6	242.2	239.2	237.8	233.4	233.4
57.5°	233.4	230.4	223.0	218.6	217.1	214.1	209.8	206.8	205.2	202.4	199.4
60°	206.8	202.4	196.4	190.5	189.0	186.1	181.6	178.8	177.2	171.4	168.4
62.5°	181.6	177.2	171.4	165.4	164.0	161.0	155.1	152.1	149.1	143.2	140.2
65°	158.0	153.6	147.8	141.8	138.9	137.4	131.5	127.0	124.1	119.6	113.8
67.5°	135.9	131.5	125.5	118.1	118.1	113.8	109.2	104.9	100.4	96.0	91.6
70°	115.2	110.8	104.9	99.0	97.5	94.5	90.1	84.1	81.2	75.4	70.9
72.5°	96.0	91.6	85.6	79.8	78.2	75.4	70.9	65.0	60.5	56.1	51.8
75°	78.2	73.9	68.0	63.5	62.0	59.1	54.6	48.8	44.2	41.4	36.9
77.5°	62.0	57.6	53.1	48.8	47.2	44.2	39.9	36.9	32.5	29.5	25.1
80°	47.2	44.2	39.9	36.9	35.5	32.5	29.5	25.1	22.1	19.2	17.8
82.5°	34.0	31.0	28.0	23.6	23.6	20.6	19.2	16.2	13.2	11.9	10.4
85°	19.2	16.2	14.8	13.2	11.9	11.9	10.4	8.9	7.4	5.9	5.9
87.5°	5.9	5.9	4.4	4.4	4.4	4.4	3.0	3.0	3.0	3.0	3.0
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°	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1056.0	1057.5	1054.5	1057.5	1054.5	1056.0	1053.1	1056.0	1053.1	1056.0	1050.1
5°	1045.8	1045.8	1041.2	1044.2	1041.2	1042.8	1036.9	1038.2	1035.4	1038.2	1032.4
7.5°	1028.0	1029.5	1022.1	1025.0	1020.6	1020.6	1016.1	1017.6	1013.2	1014.6	1010.2
10°	1007.2	1005.9	998.4	1001.4	995.5	995.5	991.0	991.0	985.1	986.6	980.8
12.5°	977.8	976.2	967.4	970.4	964.5	964.5	960.0	960.0	954.1	957.1	951.1
15°	943.8	942.2	933.5	934.9	929.0	929.0	923.1	924.6	920.1	923.1	917.2
17.5°	905.4	903.9	895.0	896.5	889.1	890.6	886.1	884.8	881.8	883.2	878.8
20°	865.5	862.5	853.8	855.1	852.2	847.8	844.9	846.2	843.4	846.2	841.9
22.5°	824.1	818.2	810.9	810.9	807.9	807.9	803.5	806.4	800.5	805.0	802.0
25°	776.9	772.5	766.5	769.5	763.6	763.6	759.1	760.6	757.6	760.6	757.6
27.5°	731.1	728.1	719.2	722.2	717.8	719.2	714.9	716.4	714.9	717.8	714.9
30°	682.4	680.9	675.0	675.0	673.5	672.0	670.5	670.5	669.1	673.5	670.5
32.5°	636.6	632.1	626.2	630.6	623.2	627.8	624.8	627.8	624.8	627.8	626.2
35°	589.2	587.9	580.5	581.9	580.5	580.5	579.0	579.0	579.0	583.4	583.4
37.5°	539.1	537.6	533.1	534.6	531.8	530.2	530.2	533.1	533.1	536.1	536.1
40°	490.4	491.9	487.4	487.4	485.9	485.9	485.9	488.9	487.4	490.4	488.9
42.5°	441.6	441.6	437.1	438.6	437.1	438.6	438.6	441.6	441.6	443.1	441.6
45°	395.9	395.9	394.4	395.9	392.9	394.4	392.9	395.9	394.4	395.9	395.9
47.5°	350.0	350.0	350.0	348.6	348.6	348.6	348.6	348.6	347.1	350.0	348.6
50°	307.2	308.6	307.2	307.2	305.8	307.2	305.8	305.8	302.8	304.2	304.2
52.5°	268.8	268.8	265.9	265.9	265.9	264.4	264.4	264.4	262.9	262.9	260.0
55°	231.9	231.9	228.9	228.9	227.5	226.0	224.5	224.5	220.1	220.1	215.6
57.5°	197.9	196.4	192.0	192.0	189.0	187.6	186.1	184.6	181.6	178.8	177.2
60°	166.9	164.0	161.0	159.5	156.5	153.6	150.6	147.8	144.8	143.2	141.8
62.5°	137.4	132.9	130.0	128.5	125.5	121.1	118.1	115.2	112.2	110.8	107.9
65°	110.8	106.4	101.9	100.4	97.5	94.5	90.1	87.1	84.1	82.8	82.8
67.5°	87.1	82.8	76.8	76.8	73.9	70.9	68.0	65.0	63.5	65.0	65.0
70°	65.0	62.0	57.6	56.1	53.1	50.2	48.8	48.8	48.8	50.2	48.8
72.5°	48.8	44.2	41.4	39.9	38.4	36.9	36.9	36.9	35.5	36.9	36.9
75°	34.0	31.0	28.0	28.0	26.6	26.6	26.6	26.6	26.6	26.6	26.6
77.5°	23.6	20.6	19.2	19.2	19.2	17.8	17.8	17.8	17.8	17.8	17.8
80°	14.8	14.8	13.2	13.2	11.9	11.9	11.9	11.9	11.9	11.9	11.9
82.5°	8.9	8.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
85°	4.4	4.4	4.4	4.4	4.4	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0
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: P252476

CATALOG NUMBER: LE\_6B20D010 EC6B10209050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1050.1	1054.5	1048.6	1053.1	1051.6	1050.1	1047.1	1053.1
5°	1032.4	1033.9	1028.0	1033.9	1032.4	1029.5	1026.5	1032.4
7.5°	1007.2	1011.8	1004.4	1010.2	1008.8	1005.9	1002.9	1008.8
10°	979.2	983.6	977.8	982.1	982.1	979.2	974.8	980.8
12.5°	948.2	951.1	945.2	951.1	949.8	946.8	945.2	949.8
15°	914.2	918.6	912.8	917.2	915.8	914.2	912.8	917.2
17.5°	877.4	881.8	877.4	881.8	881.8	877.4	875.9	878.8
20°	840.4	843.4	838.9	843.4	841.9	841.9	838.9	843.4
22.5°	799.0	803.5	800.5	803.5	802.0	802.0	800.5	803.5
25°	757.6	762.1	757.6	762.1	760.6	760.6	757.6	765.1
27.5°	716.4	719.2	714.9	720.8	719.2	716.4	717.8	719.2
30°	672.0	675.0	672.0	676.5	676.5	676.5	673.5	676.5
32.5°	627.8	632.1	627.8	632.1	630.6	630.6	629.2	632.1
35°	583.4	584.9	581.9	586.4	586.4	587.9	584.9	589.2
37.5°	537.6	539.1	537.6	539.1	542.0	537.6	540.6	542.0
40°	490.4	493.2	491.9	493.2	493.2	494.8	493.2	494.8
42.5°	443.1	446.0	443.1	447.5	446.0	446.0	447.5	447.5
45°	394.4	398.8	395.9	398.8	400.2	398.8	398.8	401.8
47.5°	348.6	351.5	350.0	351.5	351.5	351.5	351.5	354.5
50°	302.8	304.2	304.2	305.8	305.8	307.2	304.2	305.8
52.5°	257.0	260.0	260.0	260.0	258.5	260.0	260.0	260.0
55°	215.6	217.1	214.1	217.1	217.1	215.6	215.6	218.6
57.5°	175.8	175.8	175.8	175.8	175.8	174.2	175.8	175.8
60°	138.9	140.2	138.9	138.9	138.9	138.9	137.4	140.2
62.5°	107.9	107.9	106.4	107.9	107.9	107.9	109.2	109.2
65°	84.1	85.6	84.1	85.6	85.6	85.6	85.6	87.1
67.5°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
70°	50.2	50.2	50.2	51.8	50.2	50.2	50.2	51.8
72.5°	36.9	36.9	36.9	36.9	36.9	36.9	38.4	38.4
75°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
77.5°	17.8	17.8	17.8	19.2	17.8	19.2	17.8	17.8
80°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
82.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	3.0	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)