

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684152

Luminaire Tested: **LX6C25D010 EX6C259040 6LBLWWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C25D010 EX6C259040 6LBLWWH  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

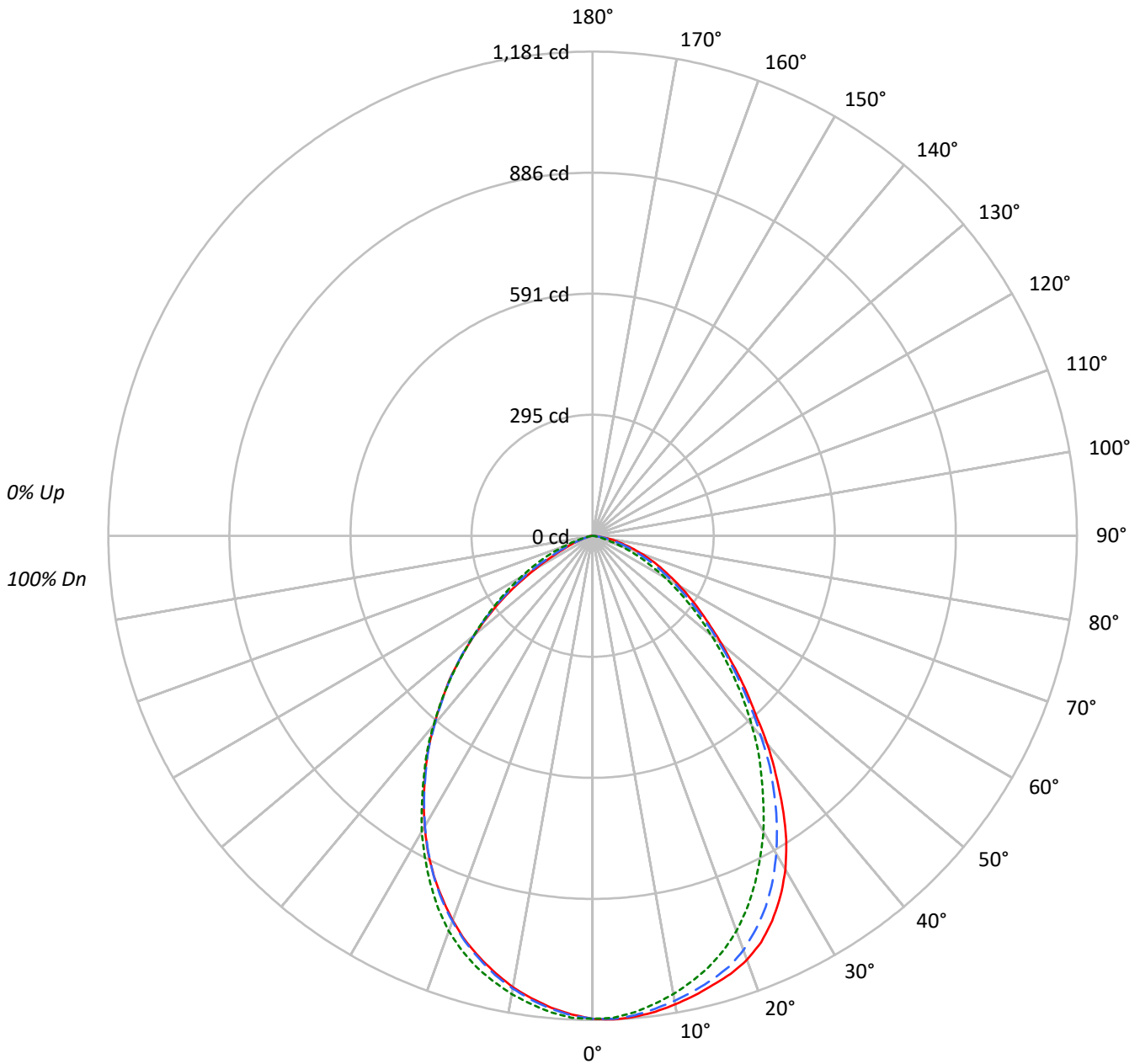
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2143.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

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

	0°	90°	180°
0°	64584	64584	64584
5°	64808	64225	63592
10°	64611	63181	62251
15°	64370	61873	60437
20°	64225	59838	58245
25°	62665	56628	55382
30°	59534	52742	51869
35°	54040	48024	47703
40°	47410	43217	42995
45°	40648	37764	38074
50°	34992	32187	32016
55°	30584	27172	25509
60°	26873	22279	17411
65°	23530	17265	10481
70°	20051	11621	6155
75°	16182	6037	3347
80°	11239	2368	1863
85°	4466	755	1006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	5.2
10°-20°	308.3	14.4
20°-30°	438.7	20.5
30°-40°	461.7	21.5
40°-50°	384.8	18.0
50°-60°	260.0	12.1
60°-70°	131.8	6.2
70°-80°	42.5	2.0
80°-90°	4.9	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°	857.3	40.0
0°-40°	1319.0	61.6
0°-60°	1963.8	91.6
0°-90°	2143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1178	1178	1178	1178	1178	
5°	1178	1174	1167	1158	1156	112
15°	1134	1122	1090	1068	1065	320
25°	1036	998	936	917	916	475
35°	808	773	718	710	713	502
45°	524	511	487	489	491	406
55°	320	304	284	276	267	288
65°	181	164	133	96	81	181
75°	76	60	28	15	16	82
85°	7	4	1	2	2	12
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°	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1180.9	1180.9	1180.9	1180.9	1180.9	1180.9	1180.5	1180.5	1179.7	1179.7	1179.3
5°	1177.7	1178.1	1178.1	1177.7	1177.7	1177.0	1177.0	1176.6	1175.4	1174.6	1174.2
7.5°	1171.0	1171.0	1170.6	1170.2	1169.8	1168.6	1168.2	1167.1	1166.3	1165.5	1163.9
10°	1160.7	1160.7	1160.3	1159.5	1159.1	1158.3	1158.3	1156.8	1155.2	1153.2	1152.0
12.5°	1148.4	1148.8	1148.0	1147.6	1146.5	1146.1	1145.3	1143.3	1142.1	1139.7	1137.7
15°	1134.2	1135.0	1135.0	1133.4	1132.2	1131.8	1130.6	1129.4	1126.7	1124.3	1121.9
17.5°	1120.3	1121.1	1120.3	1119.1	1117.9	1116.4	1115.6	1113.2	1109.6	1106.5	1102.9
20°	1100.9	1102.1	1100.5	1098.5	1096.2	1095.8	1094.6	1090.6	1085.5	1080.7	1075.6
22.5°	1073.6	1072.8	1071.6	1070.8	1066.9	1064.5	1062.9	1057.8	1052.2	1045.9	1039.5
25°	1036.0	1037.6	1035.2	1031.6	1029.6	1027.3	1023.3	1017.8	1012.6	1005.9	998.4
27.5°	991.6	991.6	988.5	987.3	982.9	979.7	977.8	972.2	965.5	958.7	950.4
30°	940.5	938.2	938.2	932.6	929.0	927.9	925.9	916.8	910.8	903.7	895.4
32.5°	878.8	878.4	876.8	873.2	868.5	864.5	864.5	858.2	850.2	841.5	836.4
35°	807.5	807.9	807.1	803.1	803.1	798.4	797.6	792.0	785.7	779.0	772.6
37.5°	733.8	735.4	733.8	731.8	730.6	730.2	726.7	722.7	718.0	714.0	709.3
40°	662.5	660.2	660.9	657.0	657.4	656.6	655.0	649.9	647.1	643.1	638.0
42.5°	585.7	588.1	588.9	586.5	585.7	584.1	585.7	583.7	580.6	578.6	573.8
45°	524.3	521.9	523.1	522.3	522.7	519.6	518.4	517.6	516.4	512.8	510.9
47.5°	463.3	463.7	463.3	461.8	461.0	461.0	459.4	457.0	457.0	454.6	453.0
50°	410.3	410.3	411.1	409.1	408.3	406.7	407.1	404.7	403.1	401.2	400.0
52.5°	361.6	362.0	360.4	360.8	360.0	360.0	358.4	356.8	355.2	351.7	350.9
55°	320.0	320.4	318.4	319.2	316.8	315.6	314.8	312.5	312.5	308.9	304.5
57.5°	281.2	280.8	280.4	279.2	277.6	276.4	275.2	272.5	271.3	268.9	265.3
60°	245.1	244.7	243.9	243.5	242.4	239.6	239.6	237.6	233.6	231.3	227.7
62.5°	211.1	211.1	210.7	209.5	208.3	207.1	206.3	204.7	200.8	198.0	194.8
65°	181.4	181.0	179.8	177.8	177.0	177.0	174.2	173.1	169.9	167.1	163.6
67.5°	152.9	151.3	150.5	150.9	148.5	148.5	146.1	144.1	141.4	136.6	133.9
70°	125.1	124.3	123.6	122.8	122.4	120.8	119.6	117.2	114.4	110.9	106.5
72.5°	100.2	100.2	99.0	98.2	97.0	95.4	94.6	92.7	89.5	85.5	82.4
75°	76.4	76.4	76.4	74.8	74.1	73.3	70.9	69.7	66.1	63.8	59.8
77.5°	56.2	55.4	54.3	53.9	53.1	52.3	51.1	49.1	45.9	43.2	40.8
80°	35.6	36.8	35.6	35.6	33.7	32.9	32.5	30.1	28.9	26.5	24.6
82.5°	19.8	20.2	19.4	19.0	17.8	17.4	17.4	15.8	15.0	13.5	12.3
85°	7.1	7.5	7.1	7.1	6.3	6.7	6.3	5.9	5.1	4.4	4.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1179.3	1178.5	1178.5	1178.1	1177.7	1177.7	1177.7	1177.3	1176.6	1176.6	1176.2
5°	1173.4	1172.6	1171.4	1170.6	1170.2	1169.8	1169.4	1169.0	1167.4	1167.1	1165.9
7.5°	1162.7	1161.9	1159.9	1159.1	1157.9	1157.5	1156.0	1155.2	1153.6	1152.0	1151.2
10°	1150.0	1148.0	1146.5	1144.5	1143.7	1142.5	1140.5	1138.1	1137.0	1135.0	1133.4
12.5°	1135.8	1133.4	1130.2	1127.8	1127.1	1125.1	1121.9	1119.9	1117.2	1114.0	1111.2
15°	1117.9	1115.2	1112.4	1108.0	1106.9	1104.5	1101.3	1097.4	1093.4	1090.2	1087.1
17.5°	1098.5	1094.2	1089.8	1085.1	1081.5	1080.3	1075.2	1069.6	1066.1	1060.5	1057.0
20°	1071.2	1065.3	1058.1	1053.4	1050.2	1046.7	1040.7	1034.8	1030.4	1025.7	1020.5
22.5°	1033.6	1028.1	1019.7	1012.6	1010.2	1005.1	999.9	994.4	988.8	983.7	977.4
25°	989.2	983.3	975.0	967.9	963.9	961.5	951.6	946.1	940.5	936.2	931.8
27.5°	943.7	933.0	927.5	916.4	912.8	912.0	902.9	897.0	891.0	885.1	879.5
30°	887.5	879.2	870.8	862.9	858.2	855.4	848.7	841.1	837.2	833.2	827.7
32.5°	829.3	821.7	811.4	803.9	800.3	796.4	790.4	785.3	779.4	775.0	773.8
35°	767.1	758.8	750.0	744.5	743.7	739.0	733.0	728.7	724.3	717.6	716.4
37.5°	700.5	695.8	689.9	681.9	678.4	678.4	672.4	669.3	663.7	663.3	660.2
40°	635.2	633.2	624.1	621.7	620.9	615.4	613.8	608.3	604.3	603.9	599.2
42.5°	570.7	565.5	563.9	560.0	556.4	555.6	552.0	549.7	548.1	545.7	543.3
45°	506.5	505.3	501.4	498.6	497.4	495.8	494.6	489.9	489.1	487.1	485.9
47.5°	451.1	447.9	444.3	441.2	440.8	438.4	435.6	435.6	431.3	430.9	430.1
50°	396.0	393.6	391.7	387.3	388.1	384.9	384.5	381.0	379.0	377.4	379.4
52.5°	347.7	342.9	342.2	338.6	337.4	337.8	333.4	332.3	331.5	329.9	329.1
55°	301.8	299.4	296.2	293.8	291.9	289.9	288.3	288.3	283.9	284.3	282.4
57.5°	261.4	259.4	255.4	251.9	251.1	248.7	246.7	244.7	244.3	241.6	239.6
60°	225.3	221.8	216.6	215.0	212.7	210.7	208.7	206.3	205.1	203.2	199.6
62.5°	191.7	185.7	183.8	180.6	177.8	176.6	173.5	170.7	168.7	165.9	163.2
65°	159.6	155.2	151.7	148.1	147.7	144.5	141.8	139.4	135.4	133.1	127.9
67.5°	130.3	126.3	122.4	118.8	116.0	115.2	110.9	108.1	105.3	100.6	96.2
70°	103.4	99.4	96.2	91.9	90.7	87.5	84.4	81.6	76.8	72.5	68.9
72.5°	78.8	74.5	70.9	67.7	65.7	63.0	59.8	56.6	51.9	47.5	44.4
75°	56.2	53.1	49.5	46.3	44.7	43.2	39.6	36.0	32.9	28.5	25.7
77.5°	38.0	34.8	31.7	28.9	26.9	25.7	23.4	20.6	17.8	15.4	13.5
80°	22.2	20.2	17.8	15.4	15.0	13.9	11.9	10.3	8.7	7.5	5.9
82.5°	10.7	9.5	7.9	6.7	5.9	5.5	4.8	4.0	3.2	2.8	2.8
85°	3.2	2.8	2.4	2.0	1.6	1.6	1.2	1.2	1.2	1.2	1.2
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1175.0	1174.6	1174.2	1173.8	1173.0	1173.0	1171.8	1171.0	1171.0	1170.2	1169.8
5°	1164.7	1163.5	1163.1	1162.3	1161.5	1161.1	1159.5	1159.1	1158.3	1157.5	1157.5
7.5°	1150.0	1148.4	1146.9	1146.1	1145.7	1144.5	1143.7	1143.3	1142.1	1141.3	1139.7
10°	1130.6	1129.4	1127.5	1126.7	1125.9	1125.1	1123.1	1121.9	1121.5	1120.7	1119.9
12.5°	1108.0	1106.5	1104.5	1102.9	1102.1	1100.9	1098.9	1097.7	1097.7	1096.2	1096.2
15°	1083.9	1081.5	1077.9	1076.4	1076.0	1073.6	1072.0	1070.4	1068.4	1067.7	1067.7
17.5°	1053.0	1049.0	1045.9	1045.9	1044.3	1041.9	1039.5	1038.3	1037.2	1035.6	1034.8
20°	1016.6	1013.8	1010.2	1010.2	1006.7	1005.9	1003.5	1003.1	1000.3	1000.7	999.5
22.5°	972.6	971.0	969.0	967.5	965.5	963.1	961.9	962.3	961.1	960.7	960.3
25°	928.3	923.9	921.5	920.7	919.9	918.0	917.2	916.8	916.8	915.6	916.0
27.5°	877.2	874.0	870.8	872.0	870.4	869.3	868.5	867.3	868.1	867.7	868.1
30°	824.9	820.9	819.0	819.7	819.4	816.2	817.8	817.4	817.8	817.8	818.6
32.5°	769.9	767.1	766.7	767.1	763.5	763.9	762.3	764.7	765.1	767.5	765.5
35°	714.0	712.4	709.7	709.3	709.7	709.3	709.3	710.8	710.4	712.8	712.0
37.5°	656.6	655.8	653.0	653.8	652.2	655.0	655.8	655.0	657.8	657.0	656.6
40°	600.4	599.2	597.6	600.8	598.8	597.2	600.0	597.6	598.4	600.8	600.8
42.5°	543.3	541.4	541.4	541.4	541.0	541.0	542.1	543.3	542.5	542.9	546.1
45°	485.9	485.5	484.3	485.1	484.7	486.7	486.7	487.5	489.1	490.7	489.9
47.5°	430.5	429.7	430.9	430.1	430.5	429.3	430.1	432.4	434.4	431.7	434.4
50°	378.6	377.0	376.6	377.8	377.4	377.0	377.8	377.8	377.0	377.0	379.8
52.5°	329.1	327.5	326.3	328.3	327.1	327.5	325.9	325.9	326.7	325.9	324.7
55°	282.8	281.6	280.0	280.8	278.8	278.4	276.8	276.8	275.6	274.8	272.5
57.5°	238.4	237.6	234.0	233.6	234.0	231.3	228.5	227.3	224.1	223.4	223.0
60°	199.2	194.8	192.9	190.5	188.9	187.7	184.5	182.6	177.8	175.0	174.6
62.5°	158.4	156.4	154.0	150.5	149.7	145.7	142.6	137.4	135.0	131.5	127.9
65°	125.5	120.4	116.8	114.8	111.7	108.1	104.5	99.0	96.2	91.9	88.3
67.5°	91.9	87.5	82.8	81.2	78.4	74.1	70.5	65.7	63.4	59.4	58.2
70°	63.0	59.0	55.4	53.1	51.1	46.7	43.2	41.6	39.2	38.4	38.4
72.5°	40.4	36.8	32.9	31.7	30.1	27.7	25.3	24.6	25.3	24.9	24.9
75°	22.6	20.6	17.8	16.6	16.6	15.8	15.4	15.4	15.4	15.4	15.4
77.5°	11.5	10.3	9.5	9.1	9.1	9.1	9.5	9.5	9.5	9.9	9.5
80°	5.5	5.1	5.1	5.1	5.5	5.5	5.5	5.5	5.5	5.9	5.5
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.2	3.2	3.2	3.2	3.2
85°	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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: P684152

CATALOG NUMBER: LX6C25D010 EX6C259040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1169.4	1168.6	1168.6	1168.2	1168.2	1168.2	1168.2	1168.6
5°	1156.8	1156.4	1156.4	1155.6	1155.6	1155.6	1155.6	1155.6
7.5°	1139.7	1138.9	1139.3	1138.5	1138.5	1138.9	1138.5	1138.1
10°	1118.7	1118.3	1118.7	1118.7	1117.9	1117.6	1117.9	1118.3
12.5°	1095.0	1094.6	1093.8	1094.2	1094.2	1093.8	1093.4	1092.6
15°	1067.3	1066.9	1066.5	1066.1	1065.7	1066.1	1065.7	1064.9
17.5°	1034.8	1034.8	1034.4	1034.0	1033.6	1032.8	1033.2	1034.4
20°	999.9	999.5	998.7	999.1	997.6	996.8	997.2	998.4
22.5°	959.9	958.7	959.5	958.4	958.4	958.7	958.4	957.6
25°	916.4	914.8	915.6	916.0	916.0	915.6	915.2	915.6
27.5°	868.1	869.3	869.3	868.5	869.6	868.1	868.9	869.3
30°	818.6	817.4	817.0	818.6	820.9	819.0	819.0	819.4
32.5°	767.5	765.9	765.9	766.7	766.3	766.3	767.9	765.9
35°	712.8	713.6	710.4	712.4	713.2	712.4	712.8	712.8
37.5°	657.8	657.0	657.0	657.0	658.2	658.2	659.0	658.6
40°	603.5	601.9	601.5	602.3	600.8	601.9	601.9	600.8
42.5°	544.9	545.3	547.3	545.3	545.7	545.3	544.5	544.1
45°	490.7	491.8	491.1	490.7	491.1	489.5	489.9	491.1
47.5°	433.2	435.6	433.2	434.8	434.4	433.6	432.8	431.3
50°	379.4	380.2	379.8	379.4	379.0	378.6	376.6	375.4
52.5°	324.3	324.3	324.3	324.3	320.4	322.4	321.6	319.2
55°	270.5	271.7	270.1	270.1	267.3	267.3	266.5	266.9
57.5°	218.6	217.4	216.2	216.2	213.5	212.3	211.1	209.5
60°	170.3	169.1	167.5	165.5	162.8	162.8	162.0	158.8
62.5°	124.7	122.8	121.6	120.0	117.6	116.0	114.8	115.6
65°	85.5	83.6	82.0	82.0	82.0	81.2	80.8	80.8
67.5°	56.2	57.4	56.6	57.4	57.4	56.6	56.2	57.0
70°	38.8	38.8	38.4	38.4	38.4	38.4	38.0	38.4
72.5°	24.9	24.9	24.9	25.3	24.9	24.9	25.3	25.3
75°	15.8	15.8	15.8	16.2	15.8	15.8	16.2	15.8
77.5°	9.5	9.9	9.9	9.9	9.9	9.5	9.9	9.9
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)