

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: P684145

Luminaire Tested: **LX6C25D010 EX6C259035 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684145  
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 EX6C259035 6LBLWWH  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

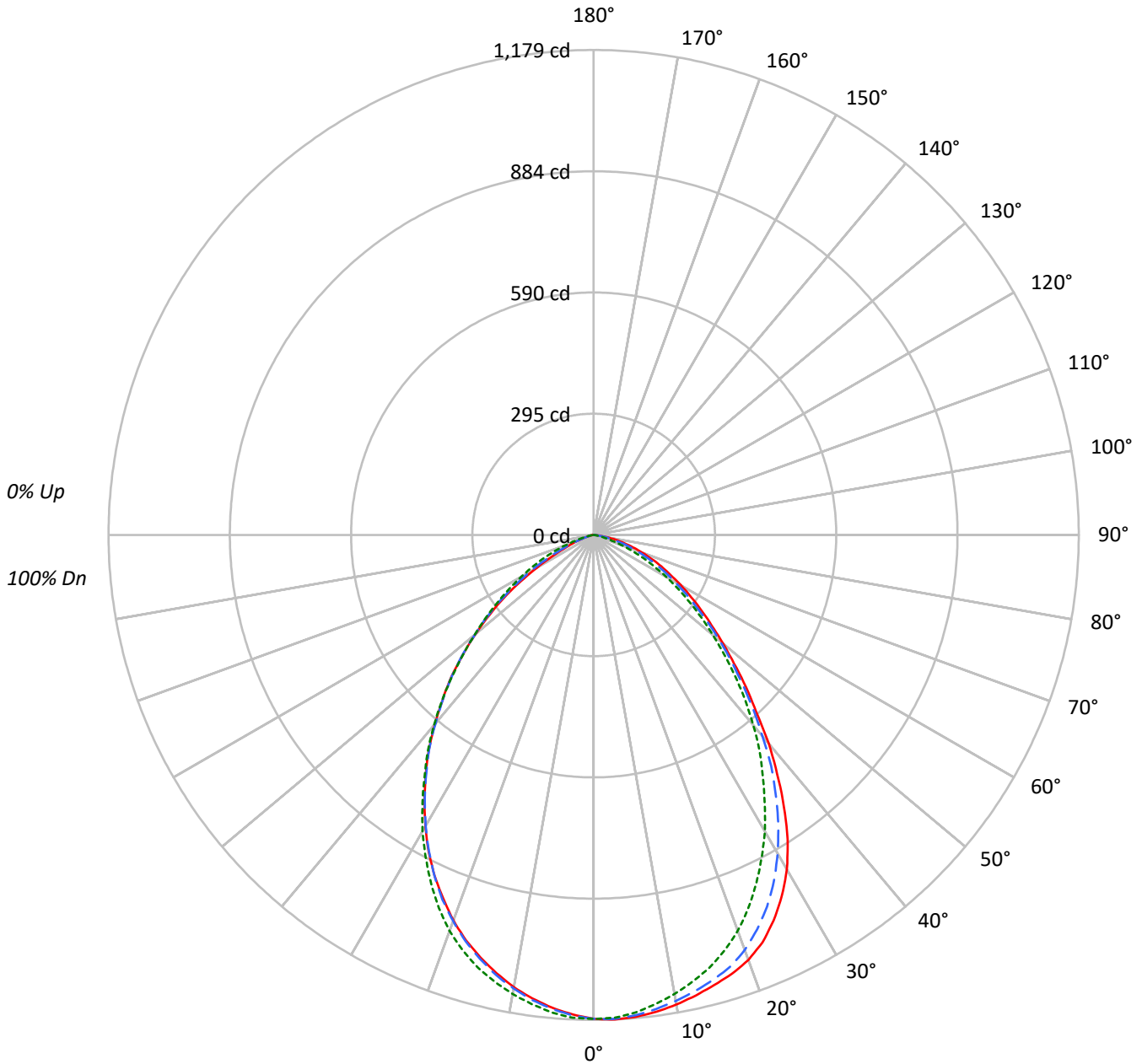
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2140.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 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

TEST NUMBER: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

**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	41	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°	64496	64496	64496
5°	64720	64131	63504
10°	64522	63092	62168
15°	64280	61788	60352
20°	64137	59750	58163
25°	62574	56550	55304
30°	59452	52666	51793
35°	53960	47957	47636
40°	47346	43159	42930
45°	40593	37709	38019
50°	34941	32144	31973
55°	30537	27134	25471
60°	26840	22246	17389
65°	23491	17239	10468
70°	20035	11605	6155
75°	16161	6037	3347
80°	11239	2368	1863
85°	4466	755	1006



TEST NUMBER: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	5.2
10°-20°	307.8	14.4
20°-30°	438.1	20.5
30°-40°	461.1	21.5
40°-50°	384.2	18.0
50°-60°	259.6	12.1
60°-70°	131.6	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°	856.1	40.0
0°-40°	1317.2	61.6
0°-60°	1961.0	91.6
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1172	1165	1157	1154	112
15°	1133	1120	1089	1067	1063	320
25°	1034	997	935	916	914	474
35°	806	772	717	710	712	502
45°	524	510	486	488	490	405
55°	320	304	284	275	266	288
65°	181	163	133	96	81	180
75°	76	60	28	15	16	82
85°	7	4	1	2	2	12
90°	0	0	0	0	0	



TEST NUMBER: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5
2.5°	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1178.9	1178.9	1178.1	1178.1	1177.7
5°	1176.1	1176.5	1176.5	1176.1	1176.1	1175.3	1175.3	1174.9	1173.7	1172.9	1172.5
7.5°	1169.4	1169.4	1169.0	1168.6	1168.2	1167.0	1166.6	1165.4	1164.6	1163.8	1162.3
10°	1159.1	1159.1	1158.7	1157.9	1157.5	1156.7	1156.7	1155.1	1153.6	1151.6	1150.4
12.5°	1146.8	1147.2	1146.4	1146.0	1144.9	1144.5	1143.7	1141.7	1140.5	1138.1	1136.2
15°	1132.6	1133.4	1133.4	1131.8	1130.6	1130.2	1129.0	1127.8	1125.1	1122.7	1120.3
17.5°	1118.8	1119.5	1118.8	1117.6	1116.4	1114.8	1114.0	1111.6	1108.1	1104.9	1101.4
20°	1099.4	1100.6	1099.0	1097.0	1094.6	1094.2	1093.0	1089.1	1084.0	1079.2	1074.1
22.5°	1072.1	1071.3	1070.1	1069.3	1065.4	1063.0	1061.4	1056.3	1050.7	1044.4	1038.1
25°	1034.5	1036.1	1033.7	1030.2	1028.2	1025.8	1021.9	1016.3	1011.2	1004.5	997.0
27.5°	990.2	990.2	987.1	985.9	981.5	978.4	976.4	970.9	964.1	957.4	949.1
30°	939.2	936.8	936.8	931.3	927.7	926.6	924.6	915.5	909.6	902.4	894.1
32.5°	877.5	877.1	875.5	872.0	867.2	863.3	863.3	857.0	849.1	840.4	835.2
35°	806.3	806.7	805.9	802.0	802.0	797.2	796.5	790.9	784.6	777.9	771.5
37.5°	732.8	734.4	732.8	730.8	729.6	729.2	725.7	721.7	717.0	713.0	708.3
40°	661.6	659.2	660.0	656.1	656.5	655.7	654.1	648.9	646.2	642.2	637.1
42.5°	584.9	587.3	588.0	585.7	584.9	583.3	584.9	582.9	579.7	577.8	573.0
45°	523.6	521.2	522.4	521.6	522.0	518.8	517.7	516.9	515.7	512.1	510.1
47.5°	462.7	463.1	462.7	461.1	460.3	460.3	458.7	456.4	456.4	454.0	452.4
50°	409.7	409.7	410.5	408.5	407.7	406.1	406.5	404.2	402.6	400.6	399.4
52.5°	361.1	361.4	359.9	360.3	359.5	359.5	357.9	356.3	354.7	351.2	350.4
55°	319.5	319.9	317.9	318.7	316.4	315.2	314.4	312.0	312.0	308.5	304.1
57.5°	280.8	280.4	280.0	278.8	277.2	276.0	274.8	272.1	270.9	268.5	265.0
60°	244.8	244.4	243.6	243.2	242.0	239.3	239.3	237.3	233.3	230.9	227.4
62.5°	210.8	210.8	210.4	209.2	208.0	206.8	206.0	204.5	200.5	197.7	194.6
65°	181.1	180.7	179.5	177.6	176.8	176.8	174.0	172.8	169.7	166.9	163.3
67.5°	152.6	151.1	150.3	150.7	148.3	148.3	145.9	143.9	141.2	136.4	133.7
70°	125.0	124.2	123.4	122.6	122.2	120.6	119.4	117.1	114.3	110.7	106.4
72.5°	100.1	100.1	98.9	98.1	96.9	95.3	94.5	92.5	89.4	85.4	82.3
75°	76.3	76.3	76.3	74.7	74.0	73.2	70.8	69.6	66.0	63.7	59.7
77.5°	56.2	55.4	54.2	53.8	53.0	52.2	51.0	49.0	45.9	43.1	40.7
80°	35.6	36.8	35.6	35.6	33.6	32.8	32.4	30.1	28.9	26.5	24.5
82.5°	19.8	20.2	19.4	19.0	17.8	17.4	17.4	15.8	15.0	13.4	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



TEST NUMBER: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5
2.5°	1177.7	1176.9	1176.9	1176.5	1176.1	1176.1	1176.1	1175.7	1174.9	1174.9	1174.5
5°	1171.7	1171.0	1169.8	1169.0	1168.6	1168.2	1167.8	1167.4	1165.8	1165.4	1164.2
7.5°	1161.1	1160.3	1158.3	1157.5	1156.3	1155.9	1154.3	1153.6	1152.0	1150.4	1149.6
10°	1148.4	1146.4	1144.9	1142.9	1142.1	1140.9	1138.9	1136.6	1135.4	1133.4	1131.8
12.5°	1134.2	1131.8	1128.6	1126.3	1125.5	1123.5	1120.3	1118.4	1115.6	1112.4	1109.7
15°	1116.4	1113.6	1110.8	1106.5	1105.3	1102.9	1099.8	1095.8	1091.9	1088.7	1085.5
17.5°	1097.0	1092.7	1088.3	1083.6	1080.0	1078.8	1073.7	1068.1	1064.6	1059.0	1055.5
20°	1069.7	1063.8	1056.7	1051.9	1048.8	1045.2	1039.3	1033.3	1029.0	1024.2	1019.1
22.5°	1032.1	1026.6	1018.3	1011.2	1008.8	1003.7	998.5	993.0	987.5	982.3	976.0
25°	987.9	981.9	973.6	966.5	962.5	960.2	950.3	944.8	939.2	934.9	930.5
27.5°	942.4	931.7	926.2	915.1	911.5	910.7	901.6	895.7	889.8	883.9	878.3
30°	886.2	877.9	869.6	861.7	857.0	854.2	847.5	840.0	836.0	832.0	826.5
32.5°	828.1	820.6	810.3	802.8	799.2	795.3	789.3	784.2	778.3	773.9	772.7
35°	766.0	757.7	749.0	743.5	742.7	737.9	732.0	727.6	723.3	716.6	715.4
37.5°	699.6	694.8	688.9	681.0	677.4	677.4	671.5	668.3	662.8	662.4	659.2
40°	634.3	632.3	623.2	620.9	620.1	614.5	613.0	607.4	603.5	603.1	598.3
42.5°	569.9	564.7	563.1	559.2	555.6	554.8	551.3	548.9	547.3	544.9	542.6
45°	505.8	504.6	500.7	497.9	496.7	495.1	493.9	489.2	488.4	486.4	485.2
47.5°	450.4	447.3	443.7	440.5	440.1	437.8	435.0	435.0	430.7	430.3	429.5
50°	395.5	393.1	391.1	386.8	387.6	384.4	384.0	380.4	378.5	376.9	378.9
52.5°	347.2	342.5	341.7	338.1	336.9	337.3	333.0	331.8	331.0	329.4	328.6
55°	301.3	299.0	295.8	293.4	291.5	289.5	287.9	287.9	283.5	283.9	282.0
57.5°	261.0	259.0	255.1	251.5	250.7	248.3	246.4	244.4	244.0	241.2	239.3
60°	225.0	221.5	216.3	214.7	212.4	210.4	208.4	206.0	204.8	202.9	199.3
62.5°	191.4	185.5	183.5	180.3	177.6	176.4	173.2	170.4	168.5	165.7	162.9
65°	159.4	155.0	151.5	147.9	147.5	144.3	141.6	139.2	135.2	132.9	127.7
67.5°	130.1	126.2	122.2	118.6	115.9	115.1	110.7	108.0	105.2	100.4	96.1
70°	103.2	99.3	96.1	91.7	90.6	87.4	84.2	81.5	76.7	72.4	68.8
72.5°	78.7	74.3	70.8	67.6	65.6	62.9	59.7	56.6	51.8	47.5	44.3
75°	56.2	53.0	49.4	46.3	44.7	43.1	39.5	36.0	32.8	28.5	25.7
77.5°	38.0	34.8	31.6	28.9	26.9	25.7	23.3	20.6	17.8	15.4	13.4
80°	22.1	20.2	17.8	15.4	15.0	13.8	11.9	10.3	8.7	7.5	5.9
82.5°	10.7	9.5	7.9	6.7	5.9	5.5	4.7	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



TEST NUMBER: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5
2.5°	1173.3	1172.9	1172.5	1172.1	1171.4	1171.4	1170.2	1169.4	1169.4	1168.6	1168.2
5°	1163.0	1161.9	1161.5	1160.7	1159.9	1159.5	1157.9	1157.5	1156.7	1155.9	1155.9
7.5°	1148.4	1146.8	1145.3	1144.5	1144.1	1142.9	1142.1	1141.7	1140.5	1139.7	1138.1
10°	1129.0	1127.8	1125.9	1125.1	1124.3	1123.5	1121.5	1120.3	1119.9	1119.1	1118.4
12.5°	1106.5	1104.9	1102.9	1101.4	1100.6	1099.4	1097.4	1096.2	1096.2	1094.6	1094.6
15°	1082.4	1080.0	1076.4	1074.9	1074.5	1072.1	1070.5	1068.9	1066.9	1066.2	1066.2
17.5°	1051.5	1047.6	1044.4	1044.4	1042.8	1040.5	1038.1	1036.9	1035.7	1034.1	1033.3
20°	1015.1	1012.4	1008.8	1008.8	1005.3	1004.5	1002.1	1001.7	998.9	999.3	998.1
22.5°	971.2	969.7	967.7	966.1	964.1	961.8	960.6	961.0	959.8	959.4	959.0
25°	927.0	922.6	920.2	919.4	918.7	916.7	915.9	915.5	915.5	914.3	914.7
27.5°	875.9	872.8	869.6	870.8	869.2	868.0	867.2	866.1	866.8	866.5	866.8
30°	823.7	819.8	817.8	818.6	818.2	815.0	816.6	816.2	816.6	816.6	817.4
32.5°	768.8	766.0	765.6	766.0	762.4	762.8	761.3	763.6	764.0	766.4	764.4
35°	713.0	711.4	708.7	708.3	708.7	708.3	708.3	709.8	709.5	711.8	711.0
37.5°	655.7	654.9	652.1	652.9	651.3	654.1	654.9	654.1	656.9	656.1	655.7
40°	599.5	598.3	596.7	599.9	597.9	596.4	599.1	596.7	597.5	599.9	599.9
42.5°	542.6	540.6	540.6	540.6	540.2	540.2	541.4	542.6	541.8	542.2	545.3
45°	485.2	484.8	483.6	484.4	484.0	486.0	486.0	486.8	488.4	490.0	489.2
47.5°	429.9	429.1	430.3	429.5	429.9	428.7	429.5	431.8	433.8	431.1	433.8
50°	378.1	376.5	376.1	377.3	376.9	376.5	377.3	377.3	376.5	376.5	379.2
52.5°	328.6	327.0	325.9	327.8	326.6	327.0	325.5	325.5	326.3	325.5	324.3
55°	282.4	281.2	279.6	280.4	278.4	278.0	276.4	276.4	275.2	274.4	272.1
57.5°	238.1	237.3	233.7	233.3	233.7	230.9	228.2	227.0	223.8	223.0	222.6
60°	198.9	194.6	192.6	190.2	188.6	187.4	184.3	182.3	177.6	174.8	174.4
62.5°	158.2	156.2	153.8	150.3	149.5	145.5	142.4	137.2	134.9	131.3	127.7
65°	125.4	120.2	116.7	114.7	111.5	108.0	104.4	98.9	96.1	91.7	88.2
67.5°	91.7	87.4	82.7	81.1	78.3	74.0	70.4	65.6	63.3	59.3	58.1
70°	62.9	58.9	55.4	53.0	51.0	46.7	43.1	41.5	39.2	38.4	38.4
72.5°	40.3	36.8	32.8	31.6	30.1	27.7	25.3	24.5	25.3	24.9	24.9
75°	22.5	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: P684145

CATALOG NUMBER: LX6C25D010 EX6C259035 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5	1176.5
2.5°	1167.8	1167.0	1167.0	1166.6	1166.6	1166.6	1166.6	1167.0
5°	1155.1	1154.7	1154.7	1154.0	1154.0	1154.0	1154.0	1154.0
7.5°	1138.1	1137.3	1137.7	1136.9	1136.9	1137.3	1136.9	1136.6
10°	1117.2	1116.8	1117.2	1117.2	1116.4	1116.0	1116.4	1116.8
12.5°	1093.4	1093.0	1092.3	1092.7	1092.7	1092.3	1091.9	1091.1
15°	1065.8	1065.4	1065.0	1064.6	1064.2	1064.6	1064.2	1063.4
17.5°	1033.3	1033.3	1032.9	1032.5	1032.1	1031.4	1031.8	1032.9
20°	998.5	998.1	997.3	997.7	996.2	995.4	995.8	997.0
22.5°	958.6	957.4	958.2	957.0	957.0	957.4	957.0	956.2
25°	915.1	913.5	914.3	914.7	914.7	914.3	913.9	914.3
27.5°	866.8	868.0	868.0	867.2	868.4	866.8	867.6	868.0
30°	817.4	816.2	815.8	817.4	819.8	817.8	817.8	818.2
32.5°	766.4	764.8	764.8	765.6	765.2	765.2	766.8	764.8
35°	711.8	712.6	709.5	711.4	712.2	711.4	711.8	711.8
37.5°	656.9	656.1	656.1	656.1	657.3	657.3	658.0	657.6
40°	602.7	601.1	600.7	601.5	599.9	601.1	601.1	599.9
42.5°	544.2	544.5	546.5	544.5	544.9	544.5	543.8	543.4
45°	490.0	491.2	490.4	490.0	490.4	488.8	489.2	490.4
47.5°	432.6	435.0	432.6	434.2	433.8	433.0	432.2	430.7
50°	378.9	379.6	379.2	378.9	378.5	378.1	376.1	374.9
52.5°	323.9	323.9	323.9	323.9	319.9	321.9	321.1	318.7
55°	270.1	271.3	269.7	269.7	266.9	266.9	266.1	266.5
57.5°	218.3	217.1	215.9	215.9	213.2	212.0	210.8	209.2
60°	170.0	168.9	167.3	165.3	162.5	162.5	161.7	158.6
62.5°	124.6	122.6	121.4	119.8	117.5	115.9	114.7	115.5
65°	85.4	83.4	81.9	81.9	81.9	81.1	80.7	80.7
67.5°	56.2	57.3	56.6	57.3	57.3	56.6	56.2	56.9
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)