

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: P684698

Luminaire Tested: **LX6C90D010 EX6C909040 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684698  
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: LX6C90D010 EX6C909040 6LBLWWH  
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

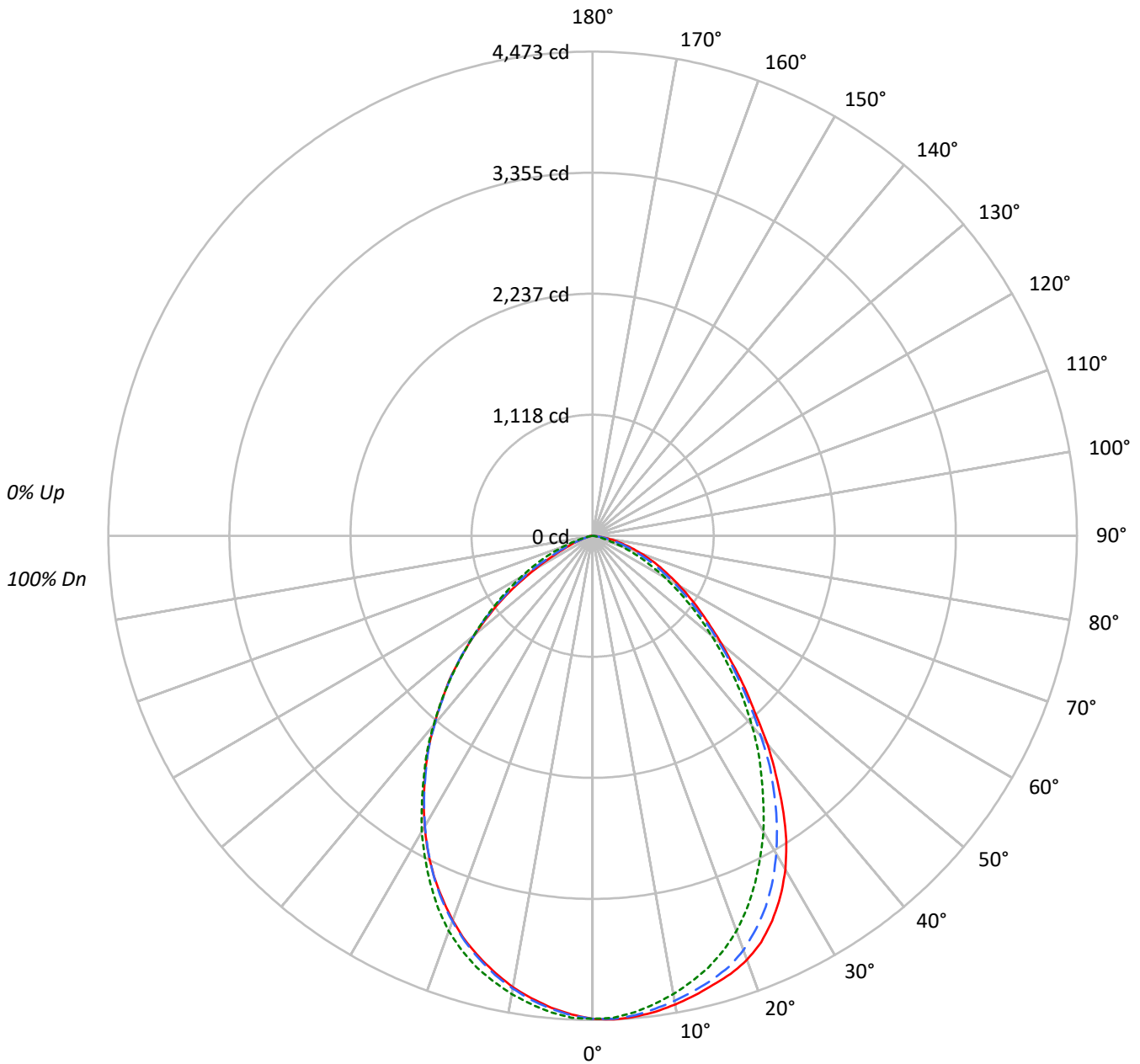
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8117.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 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): 97.1  
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	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°	244630	244630	244630
5°	245481	243253	240859
10°	244729	239302	235795
15°	243810	234360	228912
20°	243265	226639	220601
25°	237346	214482	209764
30°	225503	199771	196448
35°	204678	181897	180692
40°	179586	163700	162841
45°	153969	143038	144201
50°	132533	121915	121275
55°	115838	102935	96627
60°	101801	84368	65949
65°	89115	65377	39693
70°	75974	43998	23321
75°	61319	22875	12709
80°	42619	8997	7103
85°	16983	2830	3774



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.1	5.2
10°-20°	1167.6	14.4
20°-30°	1661.5	20.5
30°-40°	1748.8	21.5
40°-50°	1457.4	18.0
50°-60°	984.7	12.1
60°-70°	499.2	6.2
70°-80°	161.1	2.0
80°-90°	18.5	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°	3247.3	40.0
0°-40°	4996.1	61.6
0°-60°	7438.1	91.6
0°-90°	8117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8117.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4462	4462	4462	4462	4462	
5°	4461	4447	4420	4387	4377	424
15°	4296	4249	4129	4047	4033	1214
25°	3924	3781	3546	3472	3468	1798
35°	3058	2926	2718	2691	2700	1903
45°	1986	1935	1845	1852	1860	1537
55°	1212	1154	1077	1044	1011	1091
65°	687	620	504	364	306	684
75°	290	226	108	58	60	312
85°	27	15	4	6	6	46
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°	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4
2.5°	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4471.4	4471.4	4468.4	4468.4	4466.9
5°	4460.9	4462.4	4462.4	4460.9	4460.9	4457.9	4457.9	4456.4	4451.9	4448.9	4447.4
7.5°	4435.4	4435.4	4433.9	4432.4	4430.9	4426.4	4424.9	4420.4	4417.4	4414.4	4408.4
10°	4396.4	4396.4	4394.9	4391.9	4390.4	4387.4	4387.4	4381.4	4375.4	4367.9	4363.4
12.5°	4349.9	4351.4	4348.4	4346.9	4342.4	4340.9	4337.9	4330.4	4325.9	4316.9	4309.4
15°	4295.9	4298.9	4298.9	4292.9	4288.4	4286.9	4282.4	4277.9	4267.4	4258.4	4249.4
17.5°	4243.4	4246.4	4243.4	4238.9	4234.4	4228.4	4225.4	4216.4	4202.9	4190.9	4177.4
20°	4169.9	4174.4	4168.4	4160.9	4151.9	4150.4	4145.9	4130.9	4111.4	4093.4	4073.9
22.5°	4066.4	4063.4	4058.9	4055.9	4040.9	4031.9	4025.9	4006.4	3985.4	3961.4	3937.4
25°	3923.9	3929.9	3920.9	3907.4	3899.9	3890.9	3875.9	3854.9	3835.4	3809.9	3781.4
27.5°	3755.9	3755.9	3743.9	3739.4	3722.9	3710.9	3703.4	3682.4	3656.9	3631.4	3599.9
30°	3562.4	3553.4	3553.4	3532.4	3518.9	3514.4	3506.9	3472.4	3449.9	3422.9	3391.4
32.5°	3328.4	3326.9	3320.9	3307.4	3289.4	3274.4	3274.4	3250.4	3220.4	3187.4	3167.9
35°	3058.4	3059.9	3056.9	3041.9	3041.9	3023.9	3020.9	2999.9	2975.9	2950.4	2926.4
37.5°	2779.5	2785.5	2779.5	2772.0	2767.5	2766.0	2752.5	2737.5	2719.5	2704.5	2686.5
40°	2509.5	2500.5	2503.5	2488.5	2490.0	2487.0	2481.0	2461.5	2451.0	2436.0	2416.5
42.5°	2218.5	2227.5	2230.5	2221.5	2218.5	2212.5	2218.5	2211.0	2199.0	2191.5	2173.5
45°	1986.0	1977.0	1981.5	1978.5	1980.0	1968.0	1963.5	1960.5	1956.0	1942.5	1935.0
47.5°	1755.0	1756.5	1755.0	1749.0	1746.0	1746.0	1740.0	1731.0	1731.0	1722.0	1716.0
50°	1554.0	1554.0	1557.0	1549.5	1546.5	1540.5	1542.0	1533.0	1527.0	1519.5	1515.0
52.5°	1369.5	1371.0	1365.0	1366.5	1363.5	1363.5	1357.5	1351.5	1345.5	1332.0	1329.0
55°	1212.0	1213.5	1206.0	1209.0	1200.0	1195.5	1192.5	1183.5	1183.5	1170.0	1153.5
57.5°	1065.0	1063.5	1062.0	1057.5	1051.5	1047.0	1042.5	1032.0	1027.5	1018.5	1005.0
60°	928.5	927.0	924.0	922.5	918.0	907.5	907.5	900.0	885.0	876.0	862.5
62.5°	799.5	799.5	798.0	793.5	789.0	784.5	781.5	775.5	760.5	750.0	738.0
65°	687.0	685.5	681.0	673.5	670.5	670.5	660.0	655.5	643.5	633.0	619.5
67.5°	579.0	573.0	570.0	571.5	562.5	562.5	553.5	546.0	535.5	517.5	507.0
70°	474.0	471.0	468.0	465.0	463.5	457.5	453.0	444.0	433.5	420.0	403.5
72.5°	379.5	379.5	375.0	372.0	367.5	361.5	358.5	351.0	339.0	324.0	312.0
75°	289.5	289.5	289.5	283.5	280.5	277.5	268.5	264.0	250.5	241.5	226.5
77.5°	213.0	210.0	205.5	204.0	201.0	198.0	193.5	186.0	174.0	163.5	154.5
80°	135.0	139.5	135.0	135.0	127.5	124.5	123.0	114.0	109.5	100.5	93.0
82.5°	75.0	76.5	73.5	72.0	67.5	66.0	66.0	60.0	57.0	51.0	46.5
85°	27.0	28.5	27.0	27.0	24.0	25.5	24.0	22.5	19.5	16.5	15.0
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4
2.5°	4466.9	4463.9	4463.9	4462.4	4460.9	4460.9	4460.9	4459.4	4456.4	4456.4	4454.9
5°	4444.4	4441.4	4436.9	4433.9	4432.4	4430.9	4429.4	4427.9	4421.9	4420.4	4415.9
7.5°	4403.9	4400.9	4393.4	4390.4	4385.9	4384.4	4378.4	4375.4	4369.4	4363.4	4360.4
10°	4355.9	4348.4	4342.4	4334.9	4331.9	4327.4	4319.9	4310.9	4306.4	4298.9	4292.9
12.5°	4301.9	4292.9	4280.9	4271.9	4268.9	4261.4	4249.4	4241.9	4231.4	4219.4	4208.9
15°	4234.4	4223.9	4213.4	4196.9	4192.4	4183.4	4171.4	4156.4	4141.4	4129.4	4117.4
17.5°	4160.9	4144.4	4127.9	4109.9	4096.4	4091.9	4072.4	4051.4	4037.9	4016.9	4003.4
20°	4057.4	4034.9	4007.9	3989.9	3977.9	3964.4	3941.9	3919.4	3902.9	3884.9	3865.4
22.5°	3914.9	3893.9	3862.4	3835.4	3826.4	3806.9	3787.4	3766.4	3745.4	3725.9	3701.9
25°	3746.9	3724.4	3692.9	3665.9	3650.9	3641.9	3604.4	3583.4	3562.4	3545.9	3529.4
27.5°	3574.4	3533.9	3512.9	3470.9	3457.4	3454.4	3419.9	3397.4	3374.9	3352.4	3331.4
30°	3361.4	3329.9	3298.4	3268.4	3250.4	3239.9	3214.4	3185.9	3170.9	3155.9	3134.9
32.5°	3140.9	3112.4	3073.4	3044.9	3031.4	3016.4	2993.9	2974.4	2951.9	2935.4	2930.9
35°	2905.4	2873.9	2840.9	2820.0	2817.0	2799.0	2776.5	2760.0	2743.5	2718.0	2713.5
37.5°	2653.5	2635.5	2613.0	2583.0	2569.5	2569.5	2547.0	2535.0	2514.0	2512.5	2500.5
40°	2406.0	2398.5	2364.0	2355.0	2352.0	2331.0	2325.0	2304.0	2289.0	2287.5	2269.5
42.5°	2161.5	2142.0	2136.0	2121.0	2107.5	2104.5	2091.0	2082.0	2076.0	2067.0	2058.0
45°	1918.5	1914.0	1899.0	1888.5	1884.0	1878.0	1873.5	1855.5	1852.5	1845.0	1840.5
47.5°	1708.5	1696.5	1683.0	1671.0	1669.5	1660.5	1650.0	1650.0	1633.5	1632.0	1629.0
50°	1500.0	1491.0	1483.5	1467.0	1470.0	1458.0	1456.5	1443.0	1435.5	1429.5	1437.0
52.5°	1317.0	1299.0	1296.0	1282.5	1278.0	1279.5	1263.0	1258.5	1255.5	1249.5	1246.5
55°	1143.0	1134.0	1122.0	1113.0	1105.5	1098.0	1092.0	1092.0	1075.5	1077.0	1069.5
57.5°	990.0	982.5	967.5	954.0	951.0	942.0	934.5	927.0	925.5	915.0	907.5
60°	853.5	840.0	820.5	814.5	805.5	798.0	790.5	781.5	777.0	769.5	756.0
62.5°	726.0	703.5	696.0	684.0	673.5	669.0	657.0	646.5	639.0	628.5	618.0
65°	604.5	588.0	574.5	561.0	559.5	547.5	537.0	528.0	513.0	504.0	484.5
67.5°	493.5	478.5	463.5	450.0	439.5	436.5	420.0	409.5	399.0	381.0	364.5
70°	391.5	376.5	364.5	348.0	343.5	331.5	319.5	309.0	291.0	274.5	261.0
72.5°	298.5	282.0	268.5	256.5	249.0	238.5	226.5	214.5	196.5	180.0	168.0
75°	213.0	201.0	187.5	175.5	169.5	163.5	150.0	136.5	124.5	108.0	97.5
77.5°	144.0	132.0	120.0	109.5	102.0	97.5	88.5	78.0	67.5	58.5	51.0
80°	84.0	76.5	67.5	58.5	57.0	52.5	45.0	39.0	33.0	28.5	22.5
82.5°	40.5	36.0	30.0	25.5	22.5	21.0	18.0	15.0	12.0	10.5	10.5
85°	12.0	10.5	9.0	7.5	6.0	6.0	4.5	4.5	4.5	4.5	4.5
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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4
2.5°	4450.4	4448.9	4447.4	4445.9	4442.9	4442.9	4438.4	4435.4	4435.4	4432.4	4430.9
5°	4411.4	4406.9	4405.4	4402.4	4399.4	4397.9	4391.9	4390.4	4387.4	4384.4	4384.4
7.5°	4355.9	4349.9	4343.9	4340.9	4339.4	4334.9	4331.9	4330.4	4325.9	4322.9	4316.9
10°	4282.4	4277.9	4270.4	4267.4	4264.4	4261.4	4253.9	4249.4	4247.9	4244.9	4241.9
12.5°	4196.9	4190.9	4183.4	4177.4	4174.4	4169.9	4162.4	4157.9	4157.9	4151.9	4151.9
15°	4105.4	4096.4	4082.9	4076.9	4075.4	4066.4	4060.4	4054.4	4046.9	4043.9	4043.9
17.5°	3988.4	3973.4	3961.4	3961.4	3955.4	3946.4	3937.4	3932.9	3928.4	3922.4	3919.4
20°	3850.4	3839.9	3826.4	3826.4	3812.9	3809.9	3800.9	3799.4	3788.9	3790.4	3785.9
22.5°	3683.9	3677.9	3670.4	3664.4	3656.9	3647.9	3643.4	3644.9	3640.4	3638.9	3637.4
25°	3515.9	3499.4	3490.4	3487.4	3484.4	3476.9	3473.9	3472.4	3472.4	3467.9	3469.4
27.5°	3322.4	3310.4	3298.4	3302.9	3296.9	3292.4	3289.4	3284.9	3287.9	3286.4	3287.9
30°	3124.4	3109.4	3101.9	3104.9	3103.4	3091.4	3097.4	3095.9	3097.4	3097.4	3100.4
32.5°	2915.9	2905.4	2903.9	2905.4	2891.9	2893.4	2887.4	2896.4	2897.9	2906.9	2899.4
35°	2704.5	2698.5	2688.0	2686.5	2688.0	2686.5	2686.5	2692.5	2691.0	2700.0	2697.0
37.5°	2487.0	2484.0	2473.5	2476.5	2470.5	2481.0	2484.0	2481.0	2491.5	2488.5	2487.0
40°	2274.0	2269.5	2263.5	2275.5	2268.0	2262.0	2272.5	2263.5	2266.5	2275.5	2275.5
42.5°	2058.0	2050.5	2050.5	2050.5	2049.0	2049.0	2053.5	2058.0	2055.0	2056.5	2068.5
45°	1840.5	1839.0	1834.5	1837.5	1836.0	1843.5	1843.5	1846.5	1852.5	1858.5	1855.5
47.5°	1630.5	1627.5	1632.0	1629.0	1630.5	1626.0	1629.0	1638.0	1645.5	1635.0	1645.5
50°	1434.0	1428.0	1426.5	1431.0	1429.5	1428.0	1431.0	1431.0	1428.0	1428.0	1438.5
52.5°	1246.5	1240.5	1236.0	1243.5	1239.0	1240.5	1234.5	1234.5	1237.5	1234.5	1230.0
55°	1071.0	1066.5	1060.5	1063.5	1056.0	1054.5	1048.5	1048.5	1044.0	1041.0	1032.0
57.5°	903.0	900.0	886.5	885.0	886.5	876.0	865.5	861.0	849.0	846.0	844.5
60°	754.5	738.0	730.5	721.5	715.5	711.0	699.0	691.5	673.5	663.0	661.5
62.5°	600.0	592.5	583.5	570.0	567.0	552.0	540.0	520.5	511.5	498.0	484.5
65°	475.5	456.0	442.5	435.0	423.0	409.5	396.0	375.0	364.5	348.0	334.5
67.5°	348.0	331.5	313.5	307.5	297.0	280.5	267.0	249.0	240.0	225.0	220.5
70°	238.5	223.5	210.0	201.0	193.5	177.0	163.5	157.5	148.5	145.5	145.5
72.5°	153.0	139.5	124.5	120.0	114.0	105.0	96.0	93.0	96.0	94.5	94.5
75°	85.5	78.0	67.5	63.0	63.0	60.0	58.5	58.5	58.5	58.5	58.5
77.5°	43.5	39.0	36.0	34.5	34.5	34.5	36.0	36.0	36.0	37.5	36.0
80°	21.0	19.5	19.5	19.5	21.0	21.0	21.0	21.0	21.0	22.5	21.0
82.5°	10.5	10.5	10.5	10.5	10.5	10.5	12.0	12.0	12.0	12.0	12.0
85°	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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: P684698

CATALOG NUMBER: LX6C90D010 EX6C909040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4	4462.4
2.5°	4429.4	4426.4	4426.4	4424.9	4424.9	4424.9	4424.9	4426.4
5°	4381.4	4379.9	4379.9	4376.9	4376.9	4376.9	4376.9	4376.9
7.5°	4316.9	4313.9	4315.4	4312.4	4312.4	4313.9	4312.4	4310.9
10°	4237.4	4235.9	4237.4	4237.4	4234.4	4232.9	4234.4	4235.9
12.5°	4147.4	4145.9	4142.9	4144.4	4144.4	4142.9	4141.4	4138.4
15°	4042.4	4040.9	4039.4	4037.9	4036.4	4037.9	4036.4	4033.4
17.5°	3919.4	3919.4	3917.9	3916.4	3914.9	3911.9	3913.4	3917.9
20°	3787.4	3785.9	3782.9	3784.4	3778.4	3775.4	3776.9	3781.4
22.5°	3635.9	3631.4	3634.4	3629.9	3629.9	3631.4	3629.9	3626.9
25°	3470.9	3464.9	3467.9	3469.4	3469.4	3467.9	3466.4	3467.9
27.5°	3287.9	3292.4	3292.4	3289.4	3293.9	3287.9	3290.9	3292.4
30°	3100.4	3095.9	3094.4	3100.4	3109.4	3101.9	3101.9	3103.4
32.5°	2906.9	2900.9	2900.9	2903.9	2902.4	2902.4	2908.4	2900.9
35°	2700.0	2703.0	2691.0	2698.5	2701.5	2698.5	2700.0	2700.0
37.5°	2491.5	2488.5	2488.5	2488.5	2493.0	2493.0	2496.0	2494.5
40°	2286.0	2280.0	2278.5	2281.5	2275.5	2280.0	2280.0	2275.5
42.5°	2064.0	2065.5	2073.0	2065.5	2067.0	2065.5	2062.5	2061.0
45°	1858.5	1863.0	1860.0	1858.5	1860.0	1854.0	1855.5	1860.0
47.5°	1641.0	1650.0	1641.0	1647.0	1645.5	1642.5	1639.5	1633.5
50°	1437.0	1440.0	1438.5	1437.0	1435.5	1434.0	1426.5	1422.0
52.5°	1228.5	1228.5	1228.5	1228.5	1213.5	1221.0	1218.0	1209.0
55°	1024.5	1029.0	1023.0	1023.0	1012.5	1012.5	1009.5	1011.0
57.5°	828.0	823.5	819.0	819.0	808.5	804.0	799.5	793.5
60°	645.0	640.5	634.5	627.0	616.5	616.5	613.5	601.5
62.5°	472.5	465.0	460.5	454.5	445.5	439.5	435.0	438.0
65°	324.0	316.5	310.5	310.5	310.5	307.5	306.0	306.0
67.5°	213.0	217.5	214.5	217.5	217.5	214.5	213.0	216.0
70°	147.0	147.0	145.5	145.5	145.5	145.5	144.0	145.5
72.5°	94.5	94.5	94.5	96.0	94.5	94.5	96.0	96.0
75°	60.0	60.0	60.0	61.5	60.0	60.0	61.5	60.0
77.5°	36.0	37.5	37.5	37.5	37.5	36.0	37.5	37.5
80°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
82.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)