

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: P684666

Luminaire Tested: **LX6C80D010 EX6C809050 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684666  
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: LX6C80D010 EX6C809050 6LBLWWH  
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

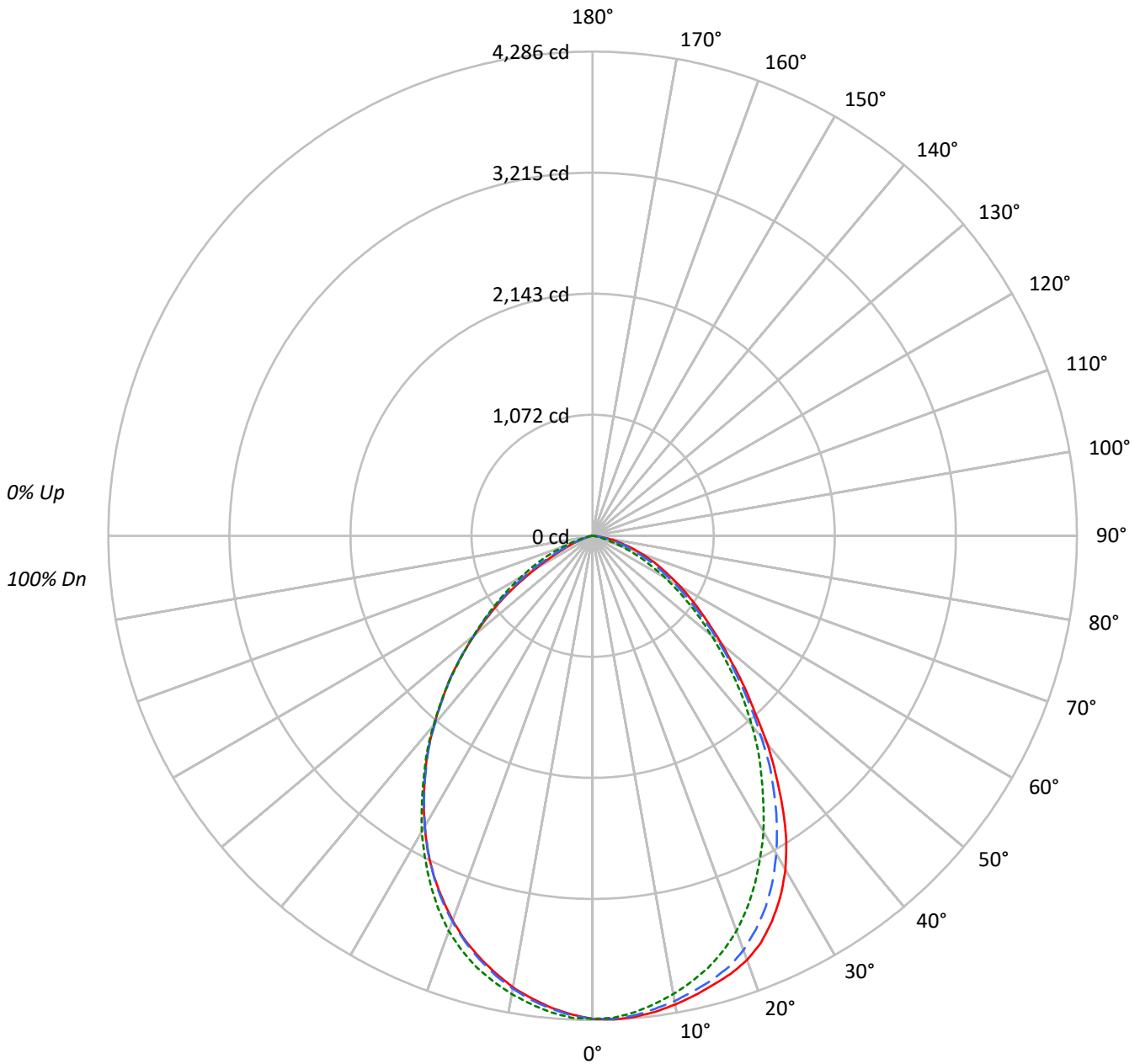
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7778.0 lumens  
Efficiency: N/A  
Efficacy: 86.9 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): 89.5  
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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CATALOG NUMBER: LX6C80D010 EX6C809050 6LBLWWH

### 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°	234417	234417	234417
5°	235229	233094	230800
10°	234509	229310	225948
15°	233628	224576	219354
20°	233109	217176	211389
25°	227439	205524	201006
30°	216090	191428	188244
35°	196131	174294	173143
40°	172087	156858	156035
45°	147535	137061	138177
50°	126998	116823	116209
55°	111002	98634	92594
60°	97547	80838	63197
65°	85392	62640	38033
70°	72801	42155	22344
75°	58756	21922	12179
80°	40851	8619	6819
85°	16291	2705	3585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.7	5.2
10°-20°	1118.8	14.4
20°-30°	1592.1	20.5
30°-40°	1675.8	21.5
40°-50°	1396.5	18.0
50°-60°	943.5	12.1
60°-70°	478.4	6.2
70°-80°	154.4	2.0
80°-90°	17.7	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°	3111.7	40.0
0°-40°	4787.4	61.6
0°-60°	7127.5	91.6
0°-90°	7778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7778.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4276	4276	4276	4276	4276	
5°	4275	4262	4236	4204	4194	406
15°	4116	4072	3957	3878	3865	1163
25°	3760	3624	3398	3327	3323	1723
35°	2931	2804	2604	2579	2587	1824
45°	1903	1854	1768	1775	1782	1473
55°	1161	1105	1032	1000	969	1045
65°	658	594	483	349	293	655
75°	277	217	104	56	58	299
85°	26	14	4	6	6	45
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°	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1
2.5°	4286.1	4286.1	4286.1	4286.1	4286.1	4286.1	4284.7	4284.7	4281.8	4281.8	4280.4
5°	4274.6	4276.1	4276.1	4274.6	4274.6	4271.7	4271.7	4270.3	4266.0	4263.1	4261.7
7.5°	4250.2	4250.2	4248.7	4247.3	4245.9	4241.6	4240.1	4235.8	4232.9	4230.1	4224.3
10°	4212.8	4212.8	4211.4	4208.5	4207.1	4204.2	4204.2	4198.4	4192.7	4185.5	4181.2
12.5°	4168.3	4169.7	4166.8	4165.4	4161.1	4159.6	4156.8	4149.6	4145.3	4136.6	4129.4
15°	4116.5	4119.4	4119.4	4113.6	4109.3	4107.9	4103.6	4099.3	4089.2	4080.6	4072.0
17.5°	4066.2	4069.1	4066.2	4061.9	4057.6	4051.8	4049.0	4040.3	4027.4	4015.9	4003.0
20°	3995.8	4000.1	3994.3	3987.1	3978.5	3977.1	3972.8	3958.4	3939.7	3922.5	3903.8
22.5°	3896.6	3893.7	3889.4	3886.5	3872.2	3863.5	3857.8	3839.1	3819.0	3796.0	3773.0
25°	3760.1	3765.8	3757.2	3744.2	3737.1	3728.4	3714.1	3693.9	3675.2	3650.8	3623.5
27.5°	3599.1	3599.1	3587.6	3583.3	3567.4	3556.0	3548.8	3528.6	3504.2	3479.8	3449.6
30°	3413.7	3405.0	3405.0	3384.9	3372.0	3367.7	3360.5	3327.4	3305.9	3280.0	3249.8
32.5°	3189.4	3188.0	3182.2	3169.3	3152.1	3137.7	3137.7	3114.7	3085.9	3054.3	3035.6
35°	2930.7	2932.1	2929.3	2914.9	2914.9	2897.7	2894.8	2874.7	2851.7	2827.2	2804.2
37.5°	2663.4	2669.1	2663.4	2656.2	2651.9	2650.4	2637.5	2623.1	2605.9	2591.5	2574.3
40°	2404.7	2396.0	2398.9	2384.5	2386.0	2383.1	2377.3	2358.7	2348.6	2334.2	2315.5
42.5°	2125.8	2134.4	2137.3	2128.7	2125.8	2120.1	2125.8	2118.6	2107.1	2099.9	2082.7
45°	1903.0	1894.4	1898.7	1895.8	1897.3	1885.8	1881.5	1878.6	1874.3	1861.3	1854.2
47.5°	1681.7	1683.1	1681.7	1675.9	1673.1	1673.1	1667.3	1658.7	1658.7	1650.1	1644.3
50°	1489.1	1489.1	1491.9	1484.8	1481.9	1476.1	1477.6	1468.9	1463.2	1456.0	1451.7
52.5°	1312.3	1313.7	1308.0	1309.4	1306.5	1306.5	1300.8	1295.0	1289.3	1276.3	1273.5
55°	1161.4	1162.8	1155.6	1158.5	1149.9	1145.6	1142.7	1134.1	1134.1	1121.1	1105.3
57.5°	1020.5	1019.1	1017.6	1013.3	1007.6	1003.3	998.9	988.9	984.6	975.9	963.0
60°	889.7	888.3	885.4	884.0	879.6	869.6	869.6	862.4	848.0	839.4	826.5
62.5°	766.1	766.1	764.7	760.3	756.0	751.7	748.8	743.1	728.7	718.7	707.2
65°	658.3	656.9	652.5	645.4	642.5	642.5	632.4	628.1	616.6	606.6	593.6
67.5°	554.8	549.1	546.2	547.6	539.0	539.0	530.4	523.2	513.1	495.9	485.8
70°	454.2	451.3	448.4	445.6	444.1	438.4	434.1	425.4	415.4	402.5	386.6
72.5°	363.6	363.6	359.3	356.5	352.1	346.4	343.5	336.3	324.8	310.5	299.0
75°	277.4	277.4	277.4	271.7	268.8	265.9	257.3	253.0	240.0	231.4	217.0
77.5°	204.1	201.2	196.9	195.5	192.6	189.7	185.4	178.2	166.7	156.7	148.0
80°	129.4	133.7	129.4	129.4	122.2	119.3	117.9	109.2	104.9	96.3	89.1
82.5°	71.9	73.3	70.4	69.0	64.7	63.2	63.2	57.5	54.6	48.9	44.6
85°	25.9	27.3	25.9	25.9	23.0	24.4	23.0	21.6	18.7	15.8	14.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1
2.5°	4280.4	4277.5	4277.5	4276.1	4274.6	4274.6	4274.6	4273.2	4270.3	4270.3	4268.9
5°	4258.8	4255.9	4251.6	4248.7	4247.3	4245.9	4244.4	4243.0	4237.2	4235.8	4231.5
7.5°	4220.0	4217.1	4209.9	4207.1	4202.7	4201.3	4195.6	4192.7	4186.9	4181.2	4178.3
10°	4174.0	4166.8	4161.1	4153.9	4151.0	4146.7	4139.5	4130.9	4126.6	4119.4	4113.6
12.5°	4122.3	4113.6	4102.1	4093.5	4090.6	4083.4	4072.0	4064.8	4054.7	4043.2	4033.1
15°	4057.6	4047.5	4037.5	4021.6	4017.3	4008.7	3997.2	3982.8	3968.5	3957.0	3945.5
17.5°	3987.1	3971.3	3955.5	3938.3	3925.3	3921.0	3902.3	3882.2	3869.3	3849.2	3836.2
20°	3888.0	3866.4	3840.5	3823.3	3811.8	3798.9	3777.3	3755.7	3739.9	3722.7	3704.0
22.5°	3751.4	3731.3	3701.1	3675.2	3666.6	3647.9	3629.3	3609.1	3589.0	3570.3	3547.3
25°	3590.4	3568.9	3538.7	3512.8	3498.5	3489.8	3453.9	3433.8	3413.7	3397.8	3382.0
27.5°	3425.2	3386.3	3366.2	3326.0	3313.0	3310.2	3277.1	3255.5	3234.0	3212.4	3192.3
30°	3221.1	3190.9	3160.7	3131.9	3114.7	3104.6	3080.2	3052.9	3038.5	3024.1	3004.0
32.5°	3009.8	2982.5	2945.1	2917.8	2904.8	2890.5	2868.9	2850.2	2828.7	2812.9	2808.5
35°	2784.1	2753.9	2722.3	2702.2	2699.3	2682.1	2660.5	2644.7	2628.9	2604.4	2600.1
37.5°	2542.6	2525.4	2503.8	2475.1	2462.1	2462.1	2440.6	2429.1	2409.0	2407.5	2396.0
40°	2305.5	2298.3	2265.2	2256.6	2253.7	2233.6	2227.9	2207.7	2193.4	2191.9	2174.7
42.5°	2071.2	2052.5	2046.8	2032.4	2019.4	2016.6	2003.6	1995.0	1989.3	1980.6	1972.0
45°	1838.3	1834.0	1819.7	1809.6	1805.3	1799.5	1795.2	1778.0	1775.1	1767.9	1763.6
47.5°	1637.1	1625.6	1612.7	1601.2	1599.7	1591.1	1581.1	1581.1	1565.3	1563.8	1560.9
50°	1437.3	1428.7	1421.5	1405.7	1408.6	1397.1	1395.6	1382.7	1375.5	1369.8	1377.0
52.5°	1262.0	1244.7	1241.9	1228.9	1224.6	1226.0	1210.2	1205.9	1203.0	1197.3	1194.4
55°	1095.2	1086.6	1075.1	1066.5	1059.3	1052.1	1046.4	1046.4	1030.6	1032.0	1024.8
57.5°	948.6	941.5	927.1	914.1	911.3	902.6	895.5	888.3	886.8	876.8	869.6
60°	817.8	804.9	786.2	780.5	771.8	764.7	757.5	748.8	744.5	737.3	724.4
62.5°	695.7	674.1	666.9	655.4	645.4	641.0	629.5	619.5	612.3	602.2	592.2
65°	579.2	563.4	550.5	537.6	536.1	524.6	514.6	505.9	491.6	482.9	464.3
67.5°	472.9	458.5	444.1	431.2	421.1	418.3	402.5	392.4	382.3	365.1	349.3
70°	375.1	360.8	349.3	333.5	329.1	317.6	306.2	296.1	278.8	263.0	250.1
72.5°	286.0	270.2	257.3	245.8	238.6	228.5	217.0	205.5	188.3	172.5	161.0
75°	204.1	192.6	179.7	168.2	162.4	156.7	143.7	130.8	119.3	103.5	93.4
77.5°	138.0	126.5	115.0	104.9	97.7	93.4	84.8	74.7	64.7	56.1	48.9
80°	80.5	73.3	64.7	56.1	54.6	50.3	43.1	37.4	31.6	27.3	21.6
82.5°	38.8	34.5	28.7	24.4	21.6	20.1	17.2	14.4	11.5	10.1	10.1
85°	11.5	10.1	8.6	7.2	5.7	5.7	4.3	4.3	4.3	4.3	4.3
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1
2.5°	4264.6	4263.1	4261.7	4260.2	4257.4	4257.4	4253.1	4250.2	4250.2	4247.3	4245.9
5°	4227.2	4222.9	4221.4	4218.6	4215.7	4214.2	4208.5	4207.1	4204.2	4201.3	4201.3
7.5°	4174.0	4168.3	4162.5	4159.6	4158.2	4153.9	4151.0	4149.6	4145.3	4142.4	4136.6
10°	4103.6	4099.3	4092.1	4089.2	4086.3	4083.4	4076.3	4072.0	4070.5	4067.6	4064.8
12.5°	4021.6	4015.9	4008.7	4003.0	4000.1	3995.8	3988.6	3984.3	3984.3	3978.5	3978.5
15°	3934.0	3925.3	3912.4	3906.7	3905.2	3896.6	3890.8	3885.1	3877.9	3875.0	3875.0
17.5°	3821.9	3807.5	3796.0	3796.0	3790.2	3781.6	3773.0	3768.7	3764.4	3758.6	3755.7
20°	3689.6	3679.6	3666.6	3666.6	3653.7	3650.8	3642.2	3640.8	3630.7	3632.1	3627.8
22.5°	3530.1	3524.3	3517.1	3511.4	3504.2	3495.6	3491.3	3492.7	3488.4	3487.0	3485.5
25°	3369.1	3353.3	3344.7	3341.8	3338.9	3331.7	3328.9	3327.4	3327.4	3323.1	3324.5
27.5°	3183.7	3172.2	3160.7	3165.0	3159.2	3154.9	3152.1	3147.7	3150.6	3149.2	3150.6
30°	2994.0	2979.6	2972.4	2975.3	2973.8	2962.3	2968.1	2966.6	2968.1	2968.1	2971.0
32.5°	2794.2	2784.1	2782.7	2784.1	2771.2	2772.6	2766.9	2775.5	2776.9	2785.5	2778.4
35°	2591.5	2585.8	2575.7	2574.3	2575.7	2574.3	2574.3	2580.0	2578.6	2587.2	2584.3
37.5°	2383.1	2380.2	2370.2	2373.0	2367.3	2377.3	2380.2	2377.3	2387.4	2384.5	2383.1
40°	2179.0	2174.7	2168.9	2180.4	2173.2	2167.5	2177.6	2168.9	2171.8	2180.4	2180.4
42.5°	1972.0	1964.8	1964.8	1964.8	1963.4	1963.4	1967.7	1972.0	1969.1	1970.6	1982.1
45°	1763.6	1762.2	1757.9	1760.7	1759.3	1766.5	1766.5	1769.4	1775.1	1780.8	1778.0
47.5°	1562.4	1559.5	1563.8	1560.9	1562.4	1558.1	1560.9	1569.6	1576.7	1566.7	1576.7
50°	1374.1	1368.3	1366.9	1371.2	1369.8	1368.3	1371.2	1371.2	1368.3	1368.3	1378.4
52.5°	1194.4	1188.7	1184.4	1191.5	1187.2	1188.7	1182.9	1182.9	1185.8	1182.9	1178.6
55°	1026.3	1021.9	1016.2	1019.1	1011.9	1010.4	1004.7	1004.7	1000.4	997.5	988.9
57.5°	865.3	862.4	849.5	848.0	849.5	839.4	829.3	825.0	813.5	810.7	809.2
60°	723.0	707.2	700.0	691.4	685.6	681.3	669.8	662.6	645.4	635.3	633.9
62.5°	574.9	567.7	559.1	546.2	543.3	528.9	517.4	498.8	490.1	477.2	464.3
65°	455.6	436.9	424.0	416.8	405.3	392.4	379.5	359.3	349.3	333.5	320.5
67.5°	333.5	317.6	300.4	294.7	284.6	268.8	255.8	238.6	230.0	215.6	211.3
70°	228.5	214.2	201.2	192.6	185.4	169.6	156.7	150.9	142.3	139.4	139.4
72.5°	146.6	133.7	119.3	115.0	109.2	100.6	92.0	89.1	92.0	90.6	90.6
75°	81.9	74.7	64.7	60.4	60.4	57.5	56.1	56.1	56.1	56.1	56.1
77.5°	41.7	37.4	34.5	33.1	33.1	33.1	34.5	34.5	34.5	35.9	34.5
80°	20.1	18.7	18.7	18.7	20.1	20.1	20.1	20.1	20.1	21.6	20.1
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	11.5	11.5	11.5	11.5	11.5
85°	4.3	4.3	4.3	4.3	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P684666

CATALOG NUMBER: LX6C80D010 EX6C809050 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1
2.5°	4244.4	4241.6	4241.6	4240.1	4240.1	4240.1	4240.1	4241.6
5°	4198.4	4197.0	4197.0	4194.1	4194.1	4194.1	4194.1	4194.1
7.5°	4136.6	4133.8	4135.2	4132.3	4132.3	4133.8	4132.3	4130.9
10°	4060.5	4059.0	4060.5	4060.5	4057.6	4056.1	4057.6	4059.0
12.5°	3974.2	3972.8	3969.9	3971.3	3971.3	3969.9	3968.5	3965.6
15°	3873.6	3872.2	3870.7	3869.3	3867.9	3869.3	3867.9	3865.0
17.5°	3755.7	3755.7	3754.3	3752.9	3751.4	3748.6	3750.0	3754.3
20°	3629.3	3627.8	3624.9	3626.4	3620.6	3617.8	3619.2	3623.5
22.5°	3484.1	3479.8	3482.6	3478.3	3478.3	3479.8	3478.3	3475.5
25°	3326.0	3320.2	3323.1	3324.5	3324.5	3323.1	3321.7	3323.1
27.5°	3150.6	3154.9	3154.9	3152.1	3156.4	3150.6	3153.5	3154.9
30°	2971.0	2966.6	2965.2	2971.0	2979.6	2972.4	2972.4	2973.8
32.5°	2785.5	2779.8	2779.8	2782.7	2781.2	2781.2	2787.0	2779.8
35°	2587.2	2590.1	2578.6	2585.8	2588.6	2585.8	2587.2	2587.2
37.5°	2387.4	2384.5	2384.5	2384.5	2388.8	2388.8	2391.7	2390.3
40°	2190.5	2184.7	2183.3	2186.2	2180.4	2184.7	2184.7	2180.4
42.5°	1977.8	1979.2	1986.4	1979.2	1980.6	1979.2	1976.3	1974.9
45°	1780.8	1785.2	1782.3	1780.8	1782.3	1776.5	1778.0	1782.3
47.5°	1572.4	1581.1	1572.4	1578.2	1576.7	1573.9	1571.0	1565.3
50°	1377.0	1379.8	1378.4	1377.0	1375.5	1374.1	1366.9	1362.6
52.5°	1177.2	1177.2	1177.2	1177.2	1162.8	1170.0	1167.1	1158.5
55°	981.7	986.0	980.3	980.3	970.2	970.2	967.3	968.8
57.5°	793.4	789.1	784.8	784.8	774.7	770.4	766.1	760.3
60°	618.1	613.7	608.0	600.8	590.7	590.7	587.9	576.4
62.5°	452.8	445.6	441.3	435.5	426.9	421.1	416.8	419.7
65°	310.5	303.3	297.5	297.5	297.5	294.7	293.2	293.2
67.5°	204.1	208.4	205.5	208.4	208.4	205.5	204.1	207.0
70°	140.9	140.9	139.4	139.4	139.4	139.4	138.0	139.4
72.5°	90.6	90.6	90.6	92.0	90.6	90.6	92.0	92.0
75°	57.5	57.5	57.5	58.9	57.5	57.5	58.9	57.5
77.5°	34.5	35.9	35.9	35.9	35.9	34.5	35.9	35.9
80°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
82.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)