

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: P684684

Luminaire Tested: **LX6C90D010 EX6C909030 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684684  
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 EX6C909030 6LBLWWH  
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

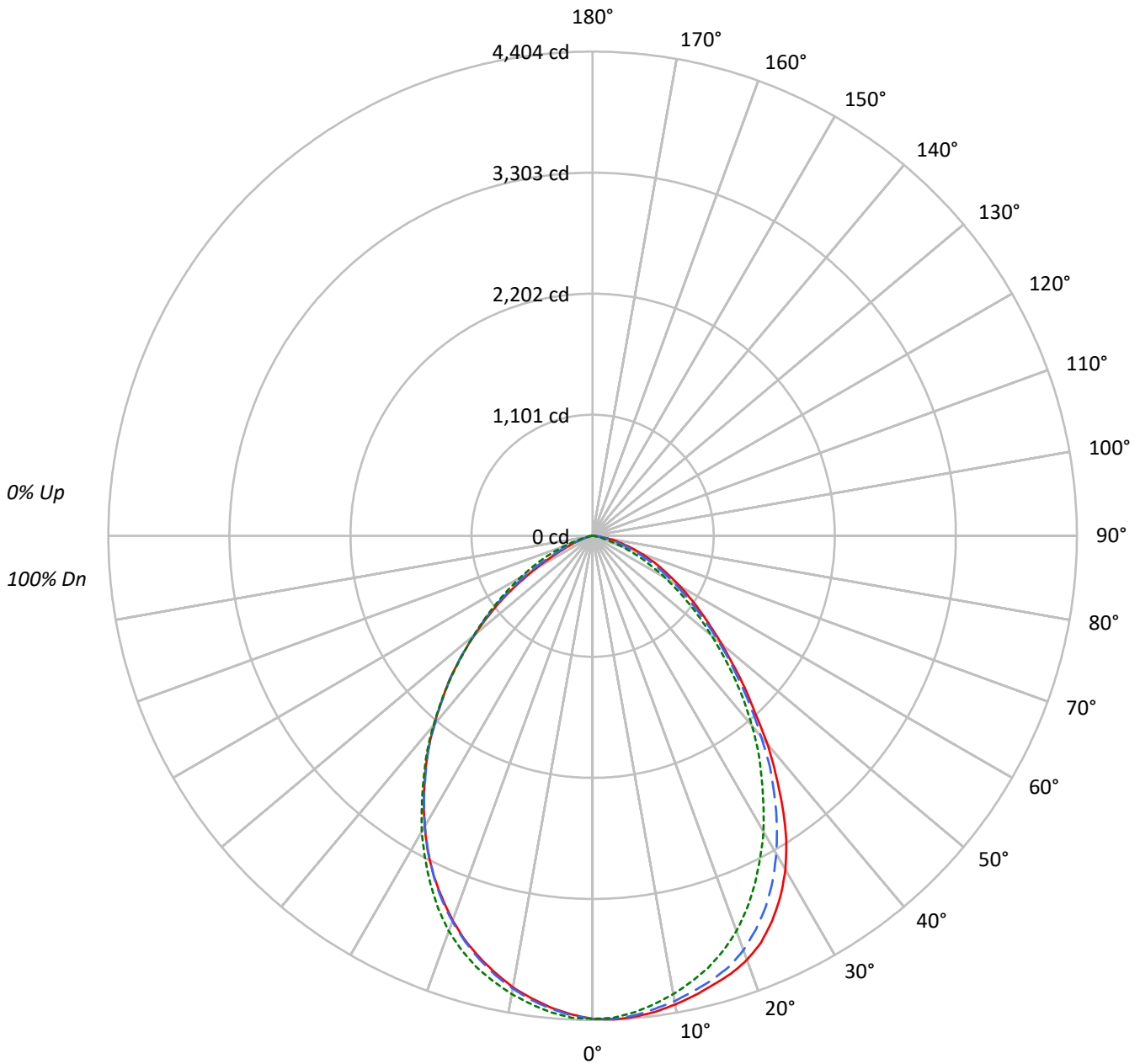
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7992.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 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	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°	240863	240863	240863
5°	241701	239505	237150
10°	240961	235617	232166
15°	240058	230750	225387
20°	239520	223150	217206
25°	233693	211180	206534
30°	222034	196695	193428
35°	201525	179093	177908
40°	176817	161173	160329
45°	151597	140836	141976
50°	130486	120039	119408
55°	114051	101349	95136
60°	100233	83064	64929
65°	87740	64365	39083
70°	74804	43325	22969
75°	60366	22515	12518
80°	41956	8871	7008
85°	16731	2768	3711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.7	5.2
10°-20°	1149.6	14.4
20°-30°	1635.9	20.5
30°-40°	1721.9	21.5
40°-50°	1435.0	18.0
50°-60°	969.5	12.1
60°-70°	491.5	6.2
70°-80°	158.7	2.0
80°-90°	18.2	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°	3197.3	40.0
0°-40°	4919.1	61.6
0°-60°	7323.6	91.6
0°-90°	7992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4394	4394	4394	4394	4394	
5°	4392	4379	4352	4320	4310	417
15°	4230	4184	4066	3985	3971	1195
25°	3864	3723	3491	3419	3414	1771
35°	3011	2881	2676	2650	2658	1874
45°	1955	1905	1817	1824	1831	1514
55°	1193	1136	1060	1028	995	1074
65°	676	610	496	359	301	673
75°	285	223	106	58	59	308
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°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4404.0	4404.0	4404.0	4404.0	4404.0	4404.0	4402.6	4402.6	4399.6	4399.6	4398.1
5°	4392.2	4393.7	4393.7	4392.2	4392.2	4389.3	4389.3	4387.8	4383.4	4380.4	4378.9
7.5°	4367.1	4367.1	4365.6	4364.2	4362.7	4358.3	4356.8	4352.3	4349.4	4346.4	4340.5
10°	4328.7	4328.7	4327.2	4324.3	4322.8	4319.9	4319.9	4313.9	4308.0	4300.7	4296.2
12.5°	4282.9	4284.4	4281.5	4280.0	4275.6	4274.1	4271.1	4263.7	4259.3	4250.4	4243.1
15°	4229.8	4232.7	4232.7	4226.8	4222.4	4220.9	4216.5	4212.0	4201.7	4192.8	4184.0
17.5°	4178.1	4181.0	4178.1	4173.6	4169.2	4163.3	4160.4	4151.5	4138.2	4126.4	4113.1
20°	4105.7	4110.1	4104.2	4096.8	4088.0	4086.5	4082.1	4067.3	4048.1	4030.4	4011.2
22.5°	4003.8	4000.9	3996.4	3993.5	3978.7	3969.8	3963.9	3944.7	3924.1	3900.4	3876.8
25°	3863.5	3869.4	3860.5	3847.3	3839.9	3831.0	3816.2	3795.6	3776.4	3751.3	3723.2
27.5°	3698.1	3698.1	3686.3	3681.8	3665.6	3653.8	3646.4	3625.7	3600.6	3575.5	3544.5
30°	3507.6	3498.7	3498.7	3478.0	3464.7	3460.3	3452.9	3419.0	3396.8	3370.2	3339.2
32.5°	3277.2	3275.7	3269.8	3256.5	3238.8	3224.0	3224.0	3200.4	3170.8	3138.4	3119.2
35°	3011.3	3012.8	3009.9	2995.1	2995.1	2977.4	2974.4	2953.7	2930.1	2905.0	2881.4
37.5°	2736.6	2742.6	2736.6	2729.3	2724.8	2723.4	2710.1	2695.3	2677.6	2662.8	2645.1
40°	2470.8	2461.9	2464.9	2450.1	2451.6	2448.7	2442.7	2423.6	2413.2	2398.4	2379.2
42.5°	2184.3	2193.2	2196.1	2187.3	2184.3	2178.4	2184.3	2176.9	2165.1	2157.7	2140.0
45°	1955.4	1946.5	1951.0	1948.0	1949.5	1937.7	1933.2	1930.3	1925.8	1912.6	1905.2
47.5°	1727.9	1729.4	1727.9	1722.0	1719.1	1719.1	1713.2	1704.3	1704.3	1695.5	1689.5
50°	1530.0	1530.0	1533.0	1525.6	1522.7	1516.7	1518.2	1509.4	1503.5	1496.1	1491.6
52.5°	1348.4	1349.9	1344.0	1345.4	1342.5	1342.5	1336.6	1330.7	1324.8	1311.5	1308.5
55°	1193.3	1194.8	1187.4	1190.4	1181.5	1177.1	1174.1	1165.3	1165.3	1152.0	1135.7
57.5°	1048.6	1047.1	1045.6	1041.2	1035.3	1030.9	1026.4	1016.1	1011.7	1002.8	989.5
60°	914.2	912.7	909.8	908.3	903.8	893.5	893.5	886.1	871.4	862.5	849.2
62.5°	787.2	787.2	785.7	781.3	776.8	772.4	769.5	763.5	748.8	738.4	726.6
65°	676.4	674.9	670.5	663.1	660.2	660.2	649.8	645.4	633.6	623.2	609.9
67.5°	570.1	564.2	561.2	562.7	553.8	553.8	545.0	537.6	527.2	509.5	499.2
70°	466.7	463.7	460.8	457.8	456.4	450.4	446.0	437.2	426.8	413.5	397.3
72.5°	373.6	373.6	369.2	366.3	361.8	355.9	353.0	345.6	333.8	319.0	307.2
75°	285.0	285.0	285.0	279.1	276.2	273.2	264.4	259.9	246.6	237.8	223.0
77.5°	209.7	206.8	202.3	200.9	197.9	194.9	190.5	183.1	171.3	161.0	152.1
80°	132.9	137.3	132.9	132.9	125.5	122.6	121.1	112.2	107.8	99.0	91.6
82.5°	73.8	75.3	72.4	70.9	66.5	65.0	65.0	59.1	56.1	50.2	45.8
85°	26.6	28.1	26.6	26.6	23.6	25.1	23.6	22.2	19.2	16.2	14.8
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°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4398.1	4395.2	4395.2	4393.7	4392.2	4392.2	4392.2	4390.7	4387.8	4387.8	4386.3
5°	4376.0	4373.0	4368.6	4365.6	4364.2	4362.7	4361.2	4359.7	4353.8	4352.3	4347.9
7.5°	4336.1	4333.1	4325.8	4322.8	4318.4	4316.9	4311.0	4308.0	4302.1	4296.2	4293.3
10°	4288.8	4281.5	4275.6	4268.2	4265.2	4260.8	4253.4	4244.5	4240.1	4232.7	4226.8
12.5°	4235.7	4226.8	4215.0	4206.1	4203.2	4195.8	4184.0	4176.6	4166.3	4154.4	4144.1
15°	4169.2	4158.9	4148.5	4132.3	4127.9	4119.0	4107.2	4092.4	4077.6	4065.8	4054.0
17.5°	4096.8	4080.6	4064.4	4046.6	4033.3	4028.9	4009.7	3989.0	3975.7	3955.1	3941.8
20°	3994.9	3972.8	3946.2	3928.5	3916.7	3903.4	3881.2	3859.1	3842.8	3825.1	3805.9
22.5°	3854.6	3834.0	3803.0	3776.4	3767.5	3748.3	3729.1	3708.4	3687.8	3668.6	3644.9
25°	3689.2	3667.1	3636.1	3609.5	3594.7	3585.9	3548.9	3528.3	3507.6	3491.3	3475.1
27.5°	3519.4	3479.5	3458.8	3417.5	3404.2	3401.2	3367.3	3345.1	3323.0	3300.8	3280.1
30°	3309.7	3278.7	3247.6	3218.1	3200.4	3190.0	3164.9	3136.9	3122.1	3107.3	3086.7
32.5°	3092.6	3064.5	3026.1	2998.1	2984.8	2970.0	2947.8	2928.6	2906.5	2890.2	2885.8
35°	2860.7	2829.7	2797.2	2776.5	2773.6	2755.8	2733.7	2717.4	2701.2	2676.1	2671.7
37.5°	2612.6	2594.9	2572.7	2543.2	2529.9	2529.9	2507.7	2495.9	2475.2	2473.8	2461.9
40°	2368.9	2361.5	2327.6	2318.7	2315.7	2295.1	2289.2	2268.5	2253.7	2252.2	2234.5
42.5°	2128.2	2109.0	2103.1	2088.3	2075.0	2072.1	2058.8	2049.9	2044.0	2035.1	2026.3
45°	1888.9	1884.5	1869.7	1859.4	1855.0	1849.0	1844.6	1826.9	1823.9	1816.6	1812.1
47.5°	1682.2	1670.3	1657.1	1645.2	1643.8	1634.9	1624.6	1624.6	1608.3	1606.8	1603.9
50°	1476.9	1468.0	1460.6	1444.4	1447.3	1435.5	1434.0	1420.8	1413.4	1407.5	1414.8
52.5°	1296.7	1279.0	1276.0	1262.7	1258.3	1259.8	1243.5	1239.1	1236.1	1230.2	1227.3
55°	1125.4	1116.5	1104.7	1095.8	1088.5	1081.1	1075.2	1075.2	1058.9	1060.4	1053.0
57.5°	974.7	967.4	952.6	939.3	936.3	927.5	920.1	912.7	911.2	900.9	893.5
60°	840.3	827.0	807.9	801.9	793.1	785.7	778.3	769.5	765.0	757.6	744.3
62.5°	714.8	692.7	685.3	673.5	663.1	658.7	646.9	636.5	629.1	618.8	608.5
65°	595.2	578.9	565.6	552.4	550.9	539.1	528.7	519.9	505.1	496.2	477.0
67.5°	485.9	471.1	456.4	443.1	432.7	429.8	413.5	403.2	392.8	375.1	358.9
70°	385.5	370.7	358.9	342.6	338.2	326.4	314.6	304.2	286.5	270.3	257.0
72.5°	293.9	277.7	264.4	252.5	245.2	234.8	223.0	211.2	193.5	177.2	165.4
75°	209.7	197.9	184.6	172.8	166.9	161.0	147.7	134.4	122.6	106.3	96.0
77.5°	141.8	130.0	118.1	107.8	100.4	96.0	87.1	76.8	66.5	57.6	50.2
80°	82.7	75.3	66.5	57.6	56.1	51.7	44.3	38.4	32.5	28.1	22.2
82.5°	39.9	35.4	29.5	25.1	22.2	20.7	17.7	14.8	11.8	10.3	10.3
85°	11.8	10.3	8.9	7.4	5.9	5.9	4.4	4.4	4.4	4.4	4.4
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°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4381.9	4380.4	4378.9	4377.5	4374.5	4374.5	4370.1	4367.1	4367.1	4364.2	4362.7
5°	4343.5	4339.1	4337.6	4334.6	4331.7	4330.2	4324.3	4322.8	4319.9	4316.9	4316.9
7.5°	4288.8	4282.9	4277.0	4274.1	4272.6	4268.2	4265.2	4263.7	4259.3	4256.4	4250.4
10°	4216.5	4212.0	4204.7	4201.7	4198.8	4195.8	4188.4	4184.0	4182.5	4179.6	4176.6
12.5°	4132.3	4126.4	4119.0	4113.1	4110.1	4105.7	4098.3	4093.9	4093.9	4088.0	4088.0
15°	4042.2	4033.3	4020.1	4014.1	4012.7	4003.8	3997.9	3992.0	3984.6	3981.7	3981.7
17.5°	3927.0	3912.2	3900.4	3900.4	3894.5	3885.7	3876.8	3872.4	3867.9	3862.0	3859.1
20°	3791.1	3780.8	3767.5	3767.5	3754.2	3751.3	3742.4	3740.9	3730.6	3732.1	3727.6
22.5°	3627.2	3621.3	3613.9	3608.0	3600.6	3591.8	3587.3	3588.8	3584.4	3582.9	3581.4
25°	3461.8	3445.5	3436.7	3433.7	3430.8	3423.4	3420.4	3419.0	3419.0	3414.5	3416.0
27.5°	3271.3	3259.5	3247.6	3252.1	3246.2	3241.7	3238.8	3234.4	3237.3	3235.8	3237.3
30°	3076.3	3061.6	3054.2	3057.1	3055.7	3043.8	3049.7	3048.3	3049.7	3049.7	3052.7
32.5°	2871.0	2860.7	2859.2	2860.7	2847.4	2848.9	2843.0	2851.8	2853.3	2862.2	2854.8
35°	2662.8	2656.9	2646.6	2645.1	2646.6	2645.1	2645.1	2651.0	2649.5	2658.4	2655.4
37.5°	2448.7	2445.7	2435.4	2438.3	2432.4	2442.7	2445.7	2442.7	2453.1	2450.1	2448.7
40°	2238.9	2234.5	2228.6	2240.4	2233.0	2227.1	2237.5	2228.6	2231.6	2240.4	2240.4
42.5°	2026.3	2018.9	2018.9	2018.9	2017.4	2017.4	2021.8	2026.3	2023.3	2024.8	2036.6
45°	1812.1	1810.6	1806.2	1809.2	1807.7	1815.1	1815.1	1818.0	1823.9	1829.8	1826.9
47.5°	1605.4	1602.4	1606.8	1603.9	1605.4	1600.9	1603.9	1612.7	1620.1	1609.8	1620.1
50°	1411.9	1406.0	1404.5	1408.9	1407.5	1406.0	1408.9	1408.9	1406.0	1406.0	1416.3
52.5°	1227.3	1221.4	1216.9	1224.3	1219.9	1221.4	1215.5	1215.5	1218.4	1215.5	1211.0
55°	1054.5	1050.1	1044.2	1047.1	1039.7	1038.2	1032.3	1032.3	1027.9	1025.0	1016.1
57.5°	889.1	886.1	872.8	871.4	872.8	862.5	852.2	847.7	835.9	833.0	831.5
60°	742.9	726.6	719.2	710.4	704.5	700.0	688.2	680.8	663.1	652.8	651.3
62.5°	590.7	583.4	574.5	561.2	558.3	543.5	531.7	512.5	503.6	490.3	477.0
65°	468.2	449.0	435.7	428.3	416.5	403.2	389.9	369.2	358.9	342.6	329.3
67.5°	342.6	326.4	308.7	302.8	292.4	276.2	262.9	245.2	236.3	221.5	217.1
70°	234.8	220.1	206.8	197.9	190.5	174.3	161.0	155.1	146.2	143.3	143.3
72.5°	150.6	137.3	122.6	118.1	112.2	103.4	94.5	91.6	94.5	93.0	93.0
75°	84.2	76.8	66.5	62.0	62.0	59.1	57.6	57.6	57.6	57.6	57.6
77.5°	42.8	38.4	35.4	34.0	34.0	34.0	35.4	35.4	35.4	36.9	35.4
80°	20.7	19.2	19.2	19.2	20.7	20.7	20.7	20.7	20.7	22.2	20.7
82.5°	10.3	10.3	10.3	10.3	10.3	10.3	11.8	11.8	11.8	11.8	11.8
85°	4.4	4.4	4.4	4.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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: P684684

CATALOG NUMBER: LX6C90D010 EX6C909030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4361.2	4358.3	4358.3	4356.8	4356.8	4356.8	4356.8	4358.3
5°	4313.9	4312.5	4312.5	4309.5	4309.5	4309.5	4309.5	4309.5
7.5°	4250.4	4247.5	4249.0	4246.0	4246.0	4247.5	4246.0	4244.5
10°	4172.2	4170.7	4172.2	4172.2	4169.2	4167.7	4169.2	4170.7
12.5°	4083.6	4082.1	4079.1	4080.6	4080.6	4079.1	4077.6	4074.7
15°	3980.2	3978.7	3977.2	3975.7	3974.3	3975.7	3974.3	3971.3
17.5°	3859.1	3859.1	3857.6	3856.1	3854.6	3851.7	3853.2	3857.6
20°	3729.1	3727.6	3724.7	3726.2	3720.2	3717.3	3718.8	3723.2
22.5°	3579.9	3575.5	3578.5	3574.0	3574.0	3575.5	3574.0	3571.1
25°	3417.5	3411.6	3414.5	3416.0	3416.0	3414.5	3413.1	3414.5
27.5°	3237.3	3241.7	3241.7	3238.8	3243.2	3237.3	3240.3	3241.7
30°	3052.7	3048.3	3046.8	3052.7	3061.6	3054.2	3054.2	3055.7
32.5°	2862.2	2856.3	2856.3	2859.2	2857.8	2857.8	2863.7	2856.3
35°	2658.4	2661.3	2649.5	2656.9	2659.9	2656.9	2658.4	2658.4
37.5°	2453.1	2450.1	2450.1	2450.1	2454.6	2454.6	2457.5	2456.0
40°	2250.8	2244.8	2243.4	2246.3	2240.4	2244.8	2244.8	2240.4
42.5°	2032.2	2033.7	2041.0	2033.7	2035.1	2033.7	2030.7	2029.2
45°	1829.8	1834.3	1831.3	1829.8	1831.3	1825.4	1826.9	1831.3
47.5°	1615.7	1624.6	1615.7	1621.6	1620.1	1617.2	1614.2	1608.3
50°	1414.8	1417.8	1416.3	1414.8	1413.4	1411.9	1404.5	1400.1
52.5°	1209.6	1209.6	1209.6	1209.6	1194.8	1202.2	1199.2	1190.4
55°	1008.7	1013.1	1007.2	1007.2	996.9	996.9	993.9	995.4
57.5°	815.2	810.8	806.4	806.4	796.0	791.6	787.2	781.3
60°	635.1	630.6	624.7	617.3	607.0	607.0	604.0	592.2
62.5°	465.2	457.8	453.4	447.5	438.6	432.7	428.3	431.2
65°	319.0	311.6	305.7	305.7	305.7	302.8	301.3	301.3
67.5°	209.7	214.1	211.2	214.1	214.1	211.2	209.7	212.7
70°	144.7	144.7	143.3	143.3	143.3	143.3	141.8	143.3
72.5°	93.0	93.0	93.0	94.5	93.0	93.0	94.5	94.5
75°	59.1	59.1	59.1	60.6	59.1	59.1	60.6	59.1
77.5°	35.4	36.9	36.9	36.9	36.9	35.4	36.9	36.9
80°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
82.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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)