

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: P684677

Luminaire Tested: **LX6C90D010 EX6C909027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684677
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 EX6C909027 6LBLWWH
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

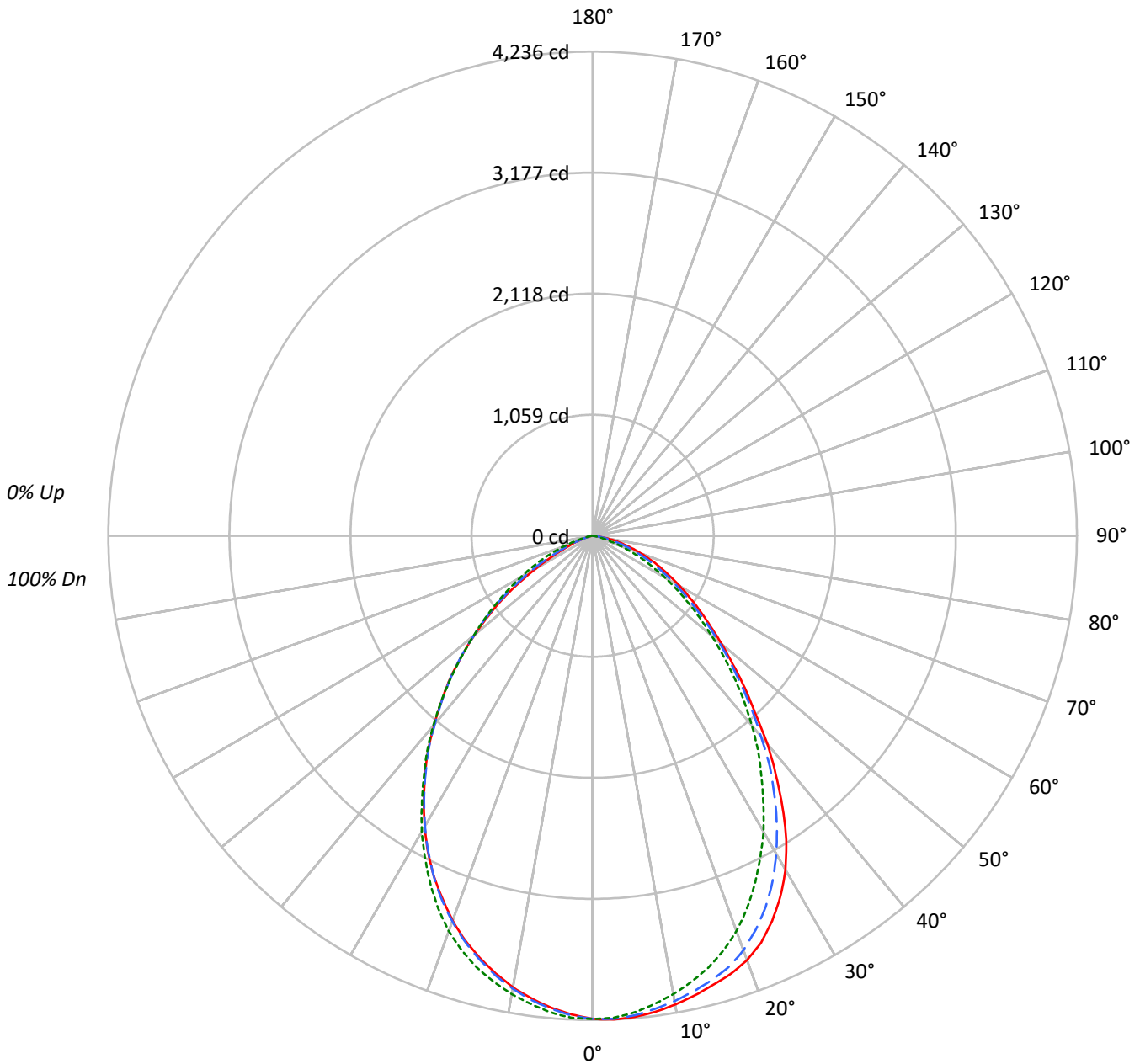
Lumens per Lamp: N/A
Luminaire Lumens: 7688.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
Input Voltage (V):
Input Current (A_{in}): 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°	231703	231703	231703
5°	232511	230398	228131
10°	231798	226655	223331
15°	230926	221976	216817
20°	230408	214662	208945
25°	224801	203147	198683
30°	213590	189213	186067
35°	193863	172280	171142
40°	170090	155048	154232
45°	145829	135479	136580
50°	125523	115467	114862
55°	109712	97497	91514
60°	96418	79906	62462
65°	84406	61926	37592
70°	71951	41674	22087
75°	58078	21668	12031
80°	40378	8524	6724
85°	16102	2705	3585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	5.2
10°-20°	1105.9	14.4
20°-30°	1573.7	20.5
30°-40°	1656.4	21.5
40°-50°	1380.4	18.0
50°-60°	932.6	12.1
60°-70°	472.8	6.2
70°-80°	152.6	2.0
80°-90°	17.5	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°	3075.7	40.0
0°-40°	4732.0	61.6
0°-60°	7045.0	91.6
0°-90°	7688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7688.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4227	4227	4227	4227	4227	
5°	4225	4212	4187	4156	4146	401
15°	4069	4025	3911	3833	3820	1150
25°	3716	3582	3358	3289	3285	1703
35°	2897	2772	2574	2549	2557	1803
45°	1881	1833	1748	1755	1762	1456
55°	1148	1092	1020	989	958	1033
65°	651	587	477	345	290	648
75°	274	214	102	55	57	296
85°	26	14	4	6	6	44
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°	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6
2.5°	4236.5	4236.5	4236.5	4236.5	4236.5	4236.5	4235.1	4235.1	4232.3	4232.3	4230.8
5°	4225.2	4226.6	4226.6	4225.2	4225.2	4222.3	4222.3	4220.9	4216.6	4213.8	4212.4
7.5°	4201.0	4201.0	4199.6	4198.2	4196.7	4192.5	4191.1	4186.8	4184.0	4181.1	4175.4
10°	4164.1	4164.1	4162.6	4159.8	4158.4	4155.5	4155.5	4149.9	4144.2	4137.1	4132.8
12.5°	4120.0	4121.4	4118.6	4117.2	4112.9	4111.5	4108.7	4101.6	4097.3	4088.8	4081.7
15°	4068.9	4071.7	4071.7	4066.0	4061.8	4060.4	4056.1	4051.8	4041.9	4033.4	4024.8
17.5°	4019.2	4022.0	4019.2	4014.9	4010.6	4004.9	4002.1	3993.6	3980.8	3969.4	3956.6
20°	3949.5	3953.8	3948.1	3941.0	3932.5	3931.1	3926.8	3912.6	3894.1	3877.1	3858.6
22.5°	3851.5	3848.7	3844.4	3841.6	3827.4	3818.8	3813.2	3794.7	3774.8	3752.1	3729.3
25°	3716.5	3722.2	3713.7	3700.9	3693.8	3685.3	3671.1	3651.2	3632.7	3608.6	3581.6
27.5°	3557.4	3557.4	3546.1	3541.8	3526.2	3514.8	3507.7	3487.8	3463.7	3439.5	3409.7
30°	3374.2	3365.6	3365.6	3345.7	3333.0	3328.7	3321.6	3288.9	3267.6	3242.0	3212.2
32.5°	3152.5	3151.1	3145.4	3132.6	3115.6	3101.4	3101.4	3078.6	3050.2	3019.0	3000.5
35°	2896.8	2898.2	2895.4	2881.2	2881.2	2864.1	2861.3	2841.4	2818.7	2794.5	2771.8
37.5°	2632.6	2638.2	2632.6	2625.4	2621.2	2619.8	2607.0	2592.8	2575.7	2561.5	2544.5
40°	2376.8	2368.3	2371.1	2356.9	2358.4	2355.5	2349.8	2331.4	2321.4	2307.2	2288.7
42.5°	2101.2	2109.7	2112.6	2104.1	2101.2	2095.5	2101.2	2094.1	2082.7	2075.6	2058.6
45°	1881.0	1872.5	1876.7	1873.9	1875.3	1864.0	1859.7	1856.9	1852.6	1839.8	1832.7
47.5°	1662.2	1663.6	1662.2	1656.5	1653.7	1653.7	1648.0	1639.5	1639.5	1631.0	1625.3
50°	1471.8	1471.8	1474.7	1467.6	1464.7	1459.1	1460.5	1452.0	1446.3	1439.2	1434.9
52.5°	1297.1	1298.5	1292.8	1294.3	1291.4	1291.4	1285.7	1280.0	1274.4	1261.6	1258.7
55°	1147.9	1149.3	1142.2	1145.1	1136.6	1132.3	1129.5	1120.9	1120.9	1108.1	1092.5
57.5°	1008.7	1007.3	1005.9	1001.6	995.9	991.6	987.4	977.4	973.2	964.7	951.9
60°	879.4	878.0	875.1	873.7	869.5	859.5	859.5	852.4	838.2	829.7	816.9
62.5°	757.2	757.2	755.8	751.5	747.3	743.0	740.2	734.5	720.3	710.3	699.0
65°	650.7	649.3	645.0	637.9	635.1	635.1	625.1	620.8	609.5	599.5	586.7
67.5°	548.4	542.7	539.9	541.3	532.8	532.8	524.2	517.1	507.2	490.1	480.2
70°	448.9	446.1	443.3	440.4	439.0	433.3	429.1	420.5	410.6	397.8	382.2
72.5°	359.4	359.4	355.2	352.3	348.1	342.4	339.5	332.4	321.1	306.9	295.5
75°	274.2	274.2	274.2	268.5	265.7	262.8	254.3	250.0	237.3	228.7	214.5
77.5°	201.7	198.9	194.6	193.2	190.4	187.5	183.3	176.2	164.8	154.9	146.3
80°	127.9	132.1	127.9	127.9	120.8	117.9	116.5	108.0	103.7	95.2	88.1
82.5°	71.0	72.5	69.6	68.2	63.9	62.5	62.5	56.8	54.0	48.3	44.0
85°	25.6	27.0	25.6	25.6	22.7	24.2	22.7	21.3	18.5	15.6	14.2
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°	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6
2.5°	4230.8	4228.0	4228.0	4226.6	4225.2	4225.2	4225.2	4223.7	4220.9	4220.9	4219.5
5°	4209.5	4206.7	4202.4	4199.6	4198.2	4196.7	4195.3	4193.9	4188.2	4186.8	4182.5
7.5°	4171.2	4168.3	4161.2	4158.4	4154.1	4152.7	4147.0	4144.2	4138.5	4132.8	4130.0
10°	4125.7	4118.6	4112.9	4105.8	4103.0	4098.7	4091.6	4083.1	4078.8	4071.7	4066.0
12.5°	4074.6	4066.0	4054.7	4046.1	4043.3	4036.2	4024.8	4017.7	4007.8	3996.4	3986.5
15°	4010.6	4000.7	3990.7	3975.1	3970.8	3962.3	3951.0	3936.8	3922.5	3911.2	3899.8
17.5°	3941.0	3925.4	3909.8	3892.7	3879.9	3875.7	3857.2	3837.3	3824.5	3804.6	3791.8
20°	3843.0	3821.7	3796.1	3779.1	3767.7	3754.9	3733.6	3712.3	3696.7	3679.6	3661.1
22.5°	3708.0	3688.1	3658.3	3632.7	3624.2	3605.7	3587.3	3567.4	3547.5	3529.0	3506.3
25°	3548.9	3527.6	3497.8	3472.2	3458.0	3449.5	3413.9	3394.0	3374.2	3358.5	3342.9
27.5°	3385.5	3347.2	3327.3	3287.5	3274.7	3271.9	3239.2	3217.9	3196.6	3175.3	3155.4
30°	3183.8	3153.9	3124.1	3095.7	3078.6	3068.7	3044.6	3017.6	3003.4	2989.1	2969.3
32.5°	2974.9	2947.9	2911.0	2884.0	2871.2	2857.0	2835.7	2817.2	2795.9	2780.3	2776.0
35°	2751.9	2722.1	2690.8	2670.9	2668.1	2651.0	2629.7	2614.1	2598.5	2574.3	2570.0
37.5°	2513.2	2496.2	2474.9	2446.4	2433.7	2433.7	2412.3	2401.0	2381.1	2379.7	2368.3
40°	2278.8	2271.7	2239.0	2230.5	2227.7	2207.8	2202.1	2182.2	2168.0	2166.6	2149.5
42.5°	2047.2	2028.8	2023.1	2008.9	1996.1	1993.2	1980.5	1971.9	1966.2	1957.7	1949.2
45°	1817.1	1812.8	1798.6	1788.7	1784.4	1778.7	1774.5	1757.4	1754.6	1747.5	1743.2
47.5°	1618.2	1606.8	1594.0	1582.7	1581.2	1572.7	1562.8	1562.8	1547.1	1545.7	1542.9
50°	1420.7	1412.2	1405.1	1389.4	1392.3	1380.9	1379.5	1366.7	1359.6	1353.9	1361.0
52.5°	1247.4	1230.3	1227.5	1214.7	1210.4	1211.9	1196.2	1192.0	1189.1	1183.4	1180.6
55°	1082.6	1074.0	1062.7	1054.2	1047.1	1040.0	1034.3	1034.3	1018.6	1020.1	1013.0
57.5°	937.7	930.6	916.3	903.6	900.7	892.2	885.1	878.0	876.6	866.6	859.5
60°	808.4	795.6	777.1	771.4	762.9	755.8	748.7	740.2	735.9	728.8	716.0
62.5°	687.6	666.3	659.2	647.8	637.9	633.6	622.3	612.3	605.2	595.3	585.3
65°	572.5	556.9	544.1	531.3	529.9	518.6	508.6	500.1	485.9	477.4	458.9
67.5°	467.4	453.2	439.0	426.2	416.3	413.4	397.8	387.9	377.9	360.9	345.2
70°	370.8	356.6	345.2	329.6	325.3	314.0	302.6	292.7	275.6	260.0	247.2
72.5°	282.7	267.1	254.3	242.9	235.8	225.9	214.5	203.2	186.1	170.5	159.1
75°	201.7	190.4	177.6	166.2	160.5	154.9	142.1	129.3	117.9	102.3	92.3
77.5°	136.4	125.0	113.7	103.7	96.6	92.3	83.8	73.9	63.9	55.4	48.3
80°	79.6	72.5	63.9	55.4	54.0	49.7	42.6	36.9	31.3	27.0	21.3
82.5°	38.4	34.1	28.4	24.2	21.3	19.9	17.0	14.2	11.4	9.9	9.9
85°	11.4	9.9	8.5	7.1	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°	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6
2.5°	4215.2	4213.8	4212.4	4210.9	4208.1	4208.1	4203.8	4201.0	4201.0	4198.2	4196.7
5°	4178.3	4174.0	4172.6	4169.7	4166.9	4165.5	4159.8	4158.4	4155.5	4152.7	4152.7
7.5°	4125.7	4120.0	4114.3	4111.5	4110.1	4105.8	4103.0	4101.6	4097.3	4094.4	4088.8
10°	4056.1	4051.8	4044.7	4041.9	4039.0	4036.2	4029.1	4024.8	4023.4	4020.6	4017.7
12.5°	3975.1	3969.4	3962.3	3956.6	3953.8	3949.5	3942.4	3938.2	3938.2	3932.5	3932.5
15°	3888.4	3879.9	3867.1	3861.5	3860.0	3851.5	3845.8	3840.1	3833.0	3830.2	3830.2
17.5°	3777.6	3763.4	3752.1	3752.1	3746.4	3737.9	3729.3	3725.1	3720.8	3715.1	3712.3
20°	3646.9	3637.0	3624.2	3624.2	3611.4	3608.6	3600.0	3598.6	3588.7	3590.1	3585.8
22.5°	3489.2	3483.5	3476.4	3470.8	3463.7	3455.1	3450.9	3452.3	3448.0	3446.6	3445.2
25°	3330.1	3314.5	3306.0	3303.1	3300.3	3293.2	3290.3	3288.9	3288.9	3284.7	3286.1
27.5°	3146.8	3135.5	3124.1	3128.4	3122.7	3118.4	3115.6	3111.3	3114.2	3112.7	3114.2
30°	2959.3	2945.1	2938.0	2940.8	2939.4	2928.1	2933.7	2932.3	2933.7	2933.7	2936.6
32.5°	2761.8	2751.9	2750.5	2751.9	2739.1	2740.5	2734.8	2743.4	2744.8	2753.3	2746.2
35°	2561.5	2555.8	2545.9	2544.5	2545.9	2544.5	2544.5	2550.2	2548.7	2557.3	2554.4
37.5°	2355.5	2352.7	2342.7	2345.6	2339.9	2349.8	2352.7	2349.8	2359.8	2356.9	2355.5
40°	2153.8	2149.5	2143.8	2155.2	2148.1	2142.4	2152.4	2143.8	2146.7	2155.2	2155.2
42.5°	1949.2	1942.1	1942.1	1942.1	1940.7	1940.7	1944.9	1949.2	1946.4	1947.8	1959.1
45°	1743.2	1741.8	1737.5	1740.4	1738.9	1746.0	1746.0	1748.9	1754.6	1760.2	1757.4
47.5°	1544.3	1541.5	1545.7	1542.9	1544.3	1540.0	1542.9	1551.4	1558.5	1548.6	1558.5
50°	1358.2	1352.5	1351.1	1355.3	1353.9	1352.5	1355.3	1355.3	1352.5	1352.5	1362.4
52.5°	1180.6	1174.9	1170.7	1177.8	1173.5	1174.9	1169.2	1169.2	1172.1	1169.2	1165.0
55°	1014.4	1010.1	1004.4	1007.3	1000.2	998.7	993.1	993.1	988.8	986.0	977.4
57.5°	855.3	852.4	839.6	838.2	839.6	829.7	819.7	815.5	804.1	801.3	799.9
60°	714.6	699.0	691.9	683.4	677.7	673.4	662.0	654.9	637.9	627.9	626.5
62.5°	568.3	561.2	552.7	539.9	537.0	522.8	511.5	493.0	484.5	471.7	458.9
65°	450.4	431.9	419.1	412.0	400.6	387.9	375.1	355.2	345.2	329.6	316.8
67.5°	329.6	314.0	296.9	291.2	281.3	265.7	252.9	235.8	227.3	213.1	208.8
70°	225.9	211.7	198.9	190.4	183.3	167.6	154.9	149.2	140.6	137.8	137.8
72.5°	144.9	132.1	117.9	113.7	108.0	99.4	90.9	88.1	90.9	89.5	89.5
75°	81.0	73.9	63.9	59.7	59.7	56.8	55.4	55.4	55.4	55.4	55.4
77.5°	41.2	36.9	34.1	32.7	32.7	32.7	34.1	34.1	34.1	35.5	34.1
80°	19.9	18.5	18.5	18.5	19.9	19.9	19.9	19.9	19.9	21.3	19.9
82.5°	9.9	9.9	9.9	9.9	9.9	9.9	11.4	11.4	11.4	11.4	11.4
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: P684677

CATALOG NUMBER: LX6C90D010 EX6C909027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6
2.5°	4195.3	4192.5	4192.5	4191.1	4191.1	4191.1	4191.1	4192.5
5°	4149.9	4148.4	4148.4	4145.6	4145.6	4145.6	4145.6	4145.6
7.5°	4088.8	4085.9	4087.3	4084.5	4084.5	4085.9	4084.5	4083.1
10°	4013.5	4012.0	4013.5	4013.5	4010.6	4009.2	4010.6	4012.0
12.5°	3928.2	3926.8	3924.0	3925.4	3925.4	3924.0	3922.5	3919.7
15°	3828.8	3827.4	3825.9	3824.5	3823.1	3824.5	3823.1	3820.3
17.5°	3712.3	3712.3	3710.9	3709.4	3708.0	3705.2	3706.6	3710.9
20°	3587.3	3585.8	3583.0	3584.4	3578.7	3575.9	3577.3	3581.6
22.5°	3443.8	3439.5	3442.3	3438.1	3438.1	3439.5	3438.1	3435.2
25°	3287.5	3281.8	3284.7	3286.1	3286.1	3284.7	3283.2	3284.7
27.5°	3114.2	3118.4	3118.4	3115.6	3119.9	3114.2	3117.0	3118.4
30°	2936.6	2932.3	2930.9	2936.6	2945.1	2938.0	2938.0	2939.4
32.5°	2753.3	2747.6	2747.6	2750.5	2749.0	2749.0	2754.7	2747.6
35°	2557.3	2560.1	2548.7	2555.8	2558.7	2555.8	2557.3	2557.3
37.5°	2359.8	2356.9	2356.9	2356.9	2361.2	2361.2	2364.0	2362.6
40°	2165.1	2159.5	2158.0	2160.9	2155.2	2159.5	2159.5	2155.2
42.5°	1954.9	1956.3	1963.4	1956.3	1957.7	1956.3	1953.5	1952.0
45°	1760.2	1764.5	1761.7	1760.2	1761.7	1756.0	1757.4	1761.7
47.5°	1554.2	1562.8	1554.2	1559.9	1558.5	1555.7	1552.8	1547.1
50°	1361.0	1363.9	1362.4	1361.0	1359.6	1358.2	1351.1	1346.8
52.5°	1163.6	1163.6	1163.6	1163.6	1149.3	1156.4	1153.6	1145.1
55°	970.3	974.6	968.9	968.9	959.0	959.0	956.1	957.5
57.5°	784.2	780.0	775.7	775.7	765.8	761.5	757.2	751.5
60°	610.9	606.6	601.0	593.9	583.9	583.9	581.1	569.7
62.5°	447.5	440.4	436.2	430.5	421.9	416.3	412.0	414.8
65°	306.9	299.8	294.1	294.1	294.1	291.2	289.8	289.8
67.5°	201.7	206.0	203.2	206.0	206.0	203.2	201.7	204.6
70°	139.2	139.2	137.8	137.8	137.8	137.8	136.4	137.8
72.5°	89.5	89.5	89.5	90.9	89.5	89.5	90.9	90.9
75°	56.8	56.8	56.8	58.2	56.8	56.8	58.2	56.8
77.5°	34.1	35.5	35.5	35.5	35.5	34.1	35.5	35.5
80°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
82.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
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)