

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: P684659

Luminaire Tested: **LX6C80D010 EX6C809040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684659
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 EX6C809040 6LBLWWH
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

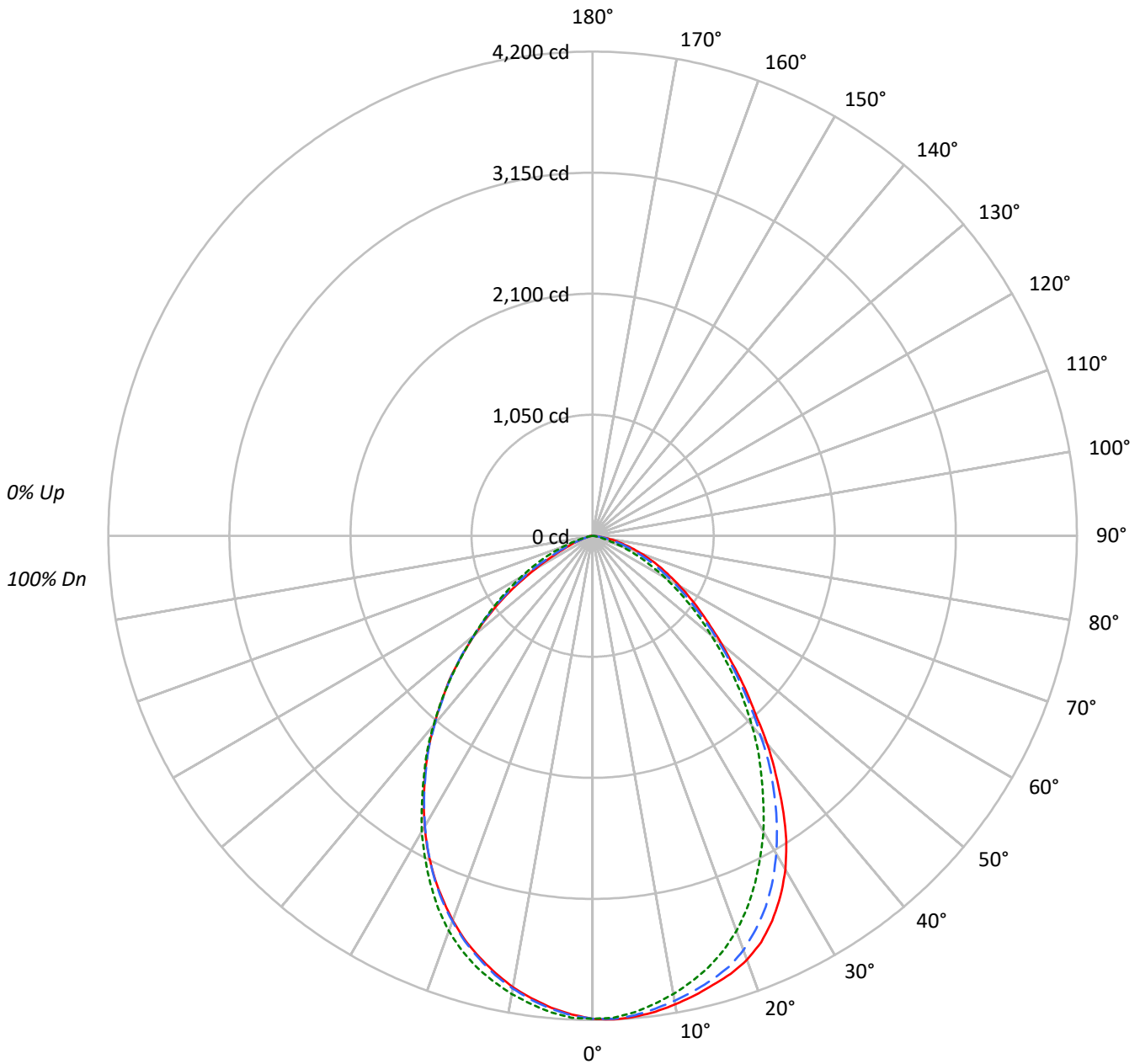
Lumens per Lamp: N/A
Luminaire Lumens: 7621.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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				20				
RC	80				70				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°	229680	229680	229680
5°	230480	228389	226144
10°	229778	224679	221389
15°	228912	220041	214927
20°	228401	212789	207125
25°	222848	201381	196947
30°	211722	187567	184446
35°	192176	170781	169650
40°	168609	153695	152886
45°	144558	134293	135386
50°	124431	114461	113864
55°	108756	96647	90721
60°	95573	79215	61914
65°	83667	61381	37267
70°	71326	41305	21895
75°	57570	21477	11925
80°	39999	8461	6661
85°	15913	2642	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	5.2
10°-20°	1096.3	14.4
20°-30°	1560.0	20.5
30°-40°	1641.9	21.5
40°-50°	1368.3	18.0
50°-60°	924.5	12.1
60°-70°	468.7	6.2
70°-80°	151.3	2.0
80°-90°	17.4	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°	3048.8	40.0
0°-40°	4690.8	61.6
0°-60°	6983.6	91.6
0°-90°	7621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7621.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4190	4190	4190	4190	4190	
5°	4188	4176	4150	4119	4110	398
15°	4033	3990	3877	3800	3787	1140
25°	3684	3550	3329	3260	3256	1688
35°	2872	2748	2552	2526	2535	1787
45°	1865	1817	1732	1739	1746	1443
55°	1138	1083	1011	980	949	1024
65°	645	582	473	342	287	642
75°	272	213	101	55	56	293
85°	25	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°	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7
2.5°	4199.6	4199.6	4199.6	4199.6	4199.6	4199.6	4198.2	4198.2	4195.4	4195.4	4194.0
5°	4188.3	4189.7	4189.7	4188.3	4188.3	4185.5	4185.5	4184.1	4179.9	4177.1	4175.7
7.5°	4164.4	4164.4	4163.0	4161.6	4160.2	4155.9	4154.5	4150.3	4147.5	4144.7	4139.0
10°	4127.8	4127.8	4126.4	4123.5	4122.1	4119.3	4119.3	4113.7	4108.1	4101.0	4096.8
12.5°	4084.1	4085.5	4082.7	4081.3	4077.1	4075.7	4072.8	4065.8	4061.6	4053.1	4046.1
15°	4033.4	4036.2	4036.2	4030.6	4026.4	4025.0	4020.7	4016.5	4006.7	3998.2	3989.8
17.5°	3984.1	3986.9	3984.1	3979.9	3975.7	3970.0	3967.2	3958.8	3946.1	3934.8	3922.2
20°	3915.1	3919.3	3913.7	3906.7	3898.2	3896.8	3892.6	3878.5	3860.2	3843.3	3825.0
22.5°	3817.9	3815.1	3810.9	3808.1	3794.0	3785.6	3779.9	3761.6	3741.9	3719.4	3696.8
25°	3684.2	3689.8	3681.3	3668.7	3661.6	3653.2	3639.1	3619.4	3601.1	3577.1	3550.4
27.5°	3526.4	3526.4	3515.2	3510.9	3495.4	3484.2	3477.1	3457.4	3433.5	3409.5	3380.0
30°	3344.7	3336.3	3336.3	3316.6	3303.9	3299.7	3292.6	3260.3	3239.1	3213.8	3184.2
32.5°	3125.1	3123.6	3118.0	3105.3	3088.4	3074.4	3074.4	3051.8	3023.7	2992.7	2974.4
35°	2871.6	2873.0	2870.1	2856.1	2856.1	2839.2	2836.3	2816.6	2794.1	2770.2	2747.6
37.5°	2609.6	2615.2	2609.6	2602.6	2598.3	2596.9	2584.3	2570.2	2553.3	2539.2	2522.3
40°	2356.1	2347.7	2350.5	2336.4	2337.8	2335.0	2329.4	2311.0	2301.2	2287.1	2268.8
42.5°	2082.9	2091.3	2094.2	2085.7	2082.9	2077.3	2082.9	2075.9	2064.6	2057.5	2040.6
45°	1864.6	1856.2	1860.4	1857.6	1859.0	1847.7	1843.5	1840.7	1836.4	1823.8	1816.7
47.5°	1647.7	1649.1	1647.7	1642.1	1639.3	1639.3	1633.6	1625.2	1625.2	1616.7	1611.1
50°	1459.0	1459.0	1461.8	1454.8	1452.0	1446.3	1447.7	1439.3	1433.7	1426.6	1422.4
52.5°	1285.8	1287.2	1281.6	1283.0	1280.2	1280.2	1274.5	1268.9	1263.3	1250.6	1247.8
55°	1137.9	1139.3	1132.3	1135.1	1126.7	1122.4	1119.6	1111.2	1111.2	1098.5	1083.0
57.5°	999.9	998.5	997.1	992.9	987.2	983.0	978.8	968.9	964.7	956.2	943.6
60°	871.7	870.3	867.5	866.1	861.9	852.0	852.0	845.0	830.9	822.5	809.8
62.5°	750.6	750.6	749.2	745.0	740.8	736.5	733.7	728.1	714.0	704.2	692.9
65°	645.0	643.6	639.4	632.3	629.5	629.5	619.7	615.4	604.2	594.3	581.6
67.5°	543.6	538.0	535.2	536.6	528.1	528.1	519.7	512.6	502.8	485.9	476.0
70°	445.0	442.2	439.4	436.6	435.2	429.5	425.3	416.9	407.0	394.3	378.8
72.5°	356.3	356.3	352.1	349.3	345.0	339.4	336.6	329.5	318.3	304.2	292.9
75°	271.8	271.8	271.8	266.2	263.4	260.5	252.1	247.9	235.2	226.7	212.7
77.5°	200.0	197.2	192.9	191.5	188.7	185.9	181.7	174.6	163.4	153.5	145.1
80°	126.7	131.0	126.7	126.7	119.7	116.9	115.5	107.0	102.8	94.4	87.3
82.5°	70.4	71.8	69.0	67.6	63.4	62.0	62.0	56.3	53.5	47.9	43.7
85°	25.3	26.8	25.3	25.3	22.5	23.9	22.5	21.1	18.3	15.5	14.1
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°	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7
2.5°	4194.0	4191.1	4191.1	4189.7	4188.3	4188.3	4188.3	4186.9	4184.1	4184.1	4182.7
5°	4172.8	4170.0	4165.8	4163.0	4161.6	4160.2	4158.8	4157.3	4151.7	4150.3	4146.1
7.5°	4134.8	4132.0	4125.0	4122.1	4117.9	4116.5	4110.9	4108.1	4102.4	4096.8	4094.0
10°	4089.7	4082.7	4077.1	4070.0	4067.2	4063.0	4055.9	4047.5	4043.3	4036.2	4030.6
12.5°	4039.0	4030.6	4019.3	4010.9	4008.1	4001.0	3989.8	3982.7	3972.9	3961.6	3951.7
15°	3975.7	3965.8	3956.0	3940.5	3936.2	3927.8	3916.5	3902.4	3888.4	3877.1	3865.8
17.5°	3906.7	3891.2	3875.7	3858.8	3846.1	3841.9	3823.6	3803.9	3791.2	3771.5	3758.8
20°	3809.5	3788.4	3763.0	3746.1	3734.9	3722.2	3701.1	3679.9	3664.4	3647.5	3629.2
22.5°	3675.7	3656.0	3626.4	3601.1	3592.6	3574.3	3556.0	3536.3	3516.6	3498.3	3475.7
25°	3518.0	3496.8	3467.3	3441.9	3427.8	3419.4	3384.2	3364.5	3344.7	3329.3	3313.8
27.5°	3356.0	3318.0	3298.3	3258.8	3246.2	3243.4	3211.0	3189.8	3168.7	3147.6	3127.9
30°	3156.0	3126.5	3096.9	3068.7	3051.8	3042.0	3018.0	2991.3	2977.2	2963.1	2943.4
32.5°	2949.0	2922.3	2885.6	2858.9	2846.2	2832.1	2811.0	2792.7	2771.6	2756.1	2751.8
35°	2727.9	2698.3	2667.3	2647.6	2644.8	2627.9	2606.8	2591.3	2575.8	2551.9	2547.6
37.5°	2491.3	2474.4	2453.3	2425.1	2412.4	2412.4	2391.3	2380.1	2360.3	2358.9	2347.7
40°	2258.9	2251.9	2219.5	2211.1	2208.2	2188.5	2182.9	2163.2	2149.1	2147.7	2130.8
42.5°	2029.4	2011.1	2005.4	1991.4	1978.7	1975.9	1963.2	1954.7	1949.1	1940.7	1932.2
45°	1801.2	1797.0	1782.9	1773.1	1768.8	1763.2	1759.0	1742.1	1739.3	1732.2	1728.0
47.5°	1604.1	1592.8	1580.1	1568.9	1567.5	1559.0	1549.1	1549.1	1533.7	1532.2	1529.4
50°	1408.3	1399.9	1392.8	1377.3	1380.1	1368.9	1367.5	1354.8	1347.8	1342.1	1349.2
52.5°	1236.5	1219.6	1216.8	1204.1	1199.9	1201.3	1185.8	1181.6	1178.8	1173.1	1170.3
55°	1073.1	1064.7	1053.4	1045.0	1037.9	1030.9	1025.3	1025.3	1009.8	1011.2	1004.1
57.5°	929.5	922.4	908.4	895.7	892.9	884.4	877.4	870.3	868.9	859.1	852.0
60°	801.3	788.7	770.3	764.7	756.3	749.2	742.2	733.7	729.5	722.5	709.8
62.5°	681.6	660.5	653.5	642.2	632.3	628.1	616.8	607.0	599.9	590.1	580.2
65°	567.6	552.1	539.4	526.7	525.3	514.0	504.2	495.7	481.6	473.2	454.9
67.5°	463.3	449.3	435.2	422.5	412.6	409.8	394.3	384.5	374.6	357.7	342.2
70°	367.6	353.5	342.2	326.7	322.5	311.2	300.0	290.1	273.2	257.7	245.0
72.5°	280.3	264.8	252.1	240.8	233.8	223.9	212.7	201.4	184.5	169.0	157.7
75°	200.0	188.7	176.0	164.8	159.1	153.5	140.8	128.2	116.9	101.4	91.5
77.5°	135.2	123.9	112.7	102.8	95.8	91.5	83.1	73.2	63.4	54.9	47.9
80°	78.9	71.8	63.4	54.9	53.5	49.3	42.2	36.6	31.0	26.8	21.1
82.5°	38.0	33.8	28.2	23.9	21.1	19.7	16.9	14.1	11.3	9.9	9.9
85°	11.3	9.9	8.4	7.0	5.6	5.6	4.2	4.2	4.2	4.2	4.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7
2.5°	4178.5	4177.1	4175.7	4174.2	4171.4	4171.4	4167.2	4164.4	4164.4	4161.6	4160.2
5°	4141.9	4137.6	4136.2	4133.4	4130.6	4129.2	4123.5	4122.1	4119.3	4116.5	4116.5
7.5°	4089.7	4084.1	4078.5	4075.7	4074.3	4070.0	4067.2	4065.8	4061.6	4058.8	4053.1
10°	4020.7	4016.5	4009.5	4006.7	4003.8	4001.0	3994.0	3989.8	3988.3	3985.5	3982.7
12.5°	3940.5	3934.8	3927.8	3922.2	3919.3	3915.1	3908.1	3903.9	3903.9	3898.2	3898.2
15°	3854.6	3846.1	3833.4	3827.8	3826.4	3817.9	3812.3	3806.7	3799.6	3796.8	3796.8
17.5°	3744.7	3730.6	3719.4	3719.4	3713.7	3705.3	3696.8	3692.6	3688.4	3682.7	3679.9
20°	3615.1	3605.3	3592.6	3592.6	3579.9	3577.1	3568.7	3567.3	3557.4	3558.8	3554.6
22.5°	3458.8	3453.2	3446.1	3440.5	3433.5	3425.0	3420.8	3422.2	3418.0	3416.6	3415.2
25°	3301.1	3285.6	3277.2	3274.3	3271.5	3264.5	3261.7	3260.3	3260.3	3256.0	3257.4
27.5°	3119.4	3108.2	3096.9	3101.1	3095.5	3091.3	3088.4	3084.2	3087.0	3085.6	3087.0
30°	2933.5	2919.4	2912.4	2915.2	2913.8	2902.5	2908.2	2906.8	2908.2	2908.2	2911.0
32.5°	2737.8	2727.9	2726.5	2727.9	2715.2	2716.6	2711.0	2719.5	2720.9	2729.3	2722.3
35°	2539.2	2533.6	2523.7	2522.3	2523.7	2522.3	2522.3	2527.9	2526.5	2535.0	2532.2
37.5°	2335.0	2332.2	2322.3	2325.1	2319.5	2329.4	2332.2	2329.4	2339.2	2336.4	2335.0
40°	2135.0	2130.8	2125.1	2136.4	2129.4	2123.7	2133.6	2125.1	2128.0	2136.4	2136.4
42.5°	1932.2	1925.2	1925.2	1925.2	1923.8	1923.8	1928.0	1932.2	1929.4	1930.8	1942.1
45°	1728.0	1726.6	1722.4	1725.2	1723.8	1730.8	1730.8	1733.6	1739.3	1744.9	1742.1
47.5°	1530.8	1528.0	1532.2	1529.4	1530.8	1526.6	1529.4	1537.9	1544.9	1535.1	1544.9
50°	1346.3	1340.7	1339.3	1343.5	1342.1	1340.7	1343.5	1343.5	1340.7	1340.7	1350.6
52.5°	1170.3	1164.7	1160.5	1167.5	1163.3	1164.7	1159.0	1159.0	1161.9	1159.0	1154.8
55°	1005.5	1001.3	995.7	998.5	991.5	990.0	984.4	984.4	980.2	977.4	968.9
57.5°	847.8	845.0	832.3	830.9	832.3	822.5	812.6	808.4	797.1	794.3	792.9
60°	708.4	692.9	685.8	677.4	671.8	667.5	656.3	649.2	632.3	622.5	621.1
62.5°	563.3	556.3	547.8	535.2	532.3	518.3	507.0	488.7	480.2	467.6	454.9
65°	446.4	428.1	415.5	408.4	397.1	384.5	371.8	352.1	342.2	326.7	314.1
67.5°	326.7	311.2	294.3	288.7	278.8	263.4	250.7	233.8	225.3	211.2	207.0
70°	223.9	209.8	197.2	188.7	181.7	166.2	153.5	147.9	139.4	136.6	136.6
72.5°	143.6	131.0	116.9	112.7	107.0	98.6	90.1	87.3	90.1	88.7	88.7
75°	80.3	73.2	63.4	59.1	59.1	56.3	54.9	54.9	54.9	54.9	54.9
77.5°	40.8	36.6	33.8	32.4	32.4	32.4	33.8	33.8	33.8	35.2	33.8
80°	19.7	18.3	18.3	18.3	19.7	19.7	19.7	19.7	19.7	21.1	19.7
82.5°	9.9	9.9	9.9	9.9	9.9	9.9	11.3	11.3	11.3	11.3	11.3
85°	4.2	4.2	4.2	4.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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: P684659

CATALOG NUMBER: LX6C80D010 EX6C809040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7	4189.7
2.5°	4158.8	4155.9	4155.9	4154.5	4154.5	4154.5	4154.5	4155.9
5°	4113.7	4112.3	4112.3	4109.5	4109.5	4109.5	4109.5	4109.5
7.5°	4053.1	4050.3	4051.7	4048.9	4048.9	4050.3	4048.9	4047.5
10°	3978.5	3977.1	3978.5	3978.5	3975.7	3974.3	3975.7	3977.1
12.5°	3894.0	3892.6	3889.8	3891.2	3891.2	3889.8	3888.4	3885.5
15°	3795.4	3794.0	3792.6	3791.2	3789.8	3791.2	3789.8	3787.0
17.5°	3679.9	3679.9	3678.5	3677.1	3675.7	3672.9	3674.3	3678.5
20°	3556.0	3554.6	3551.8	3553.2	3547.5	3544.7	3546.1	3550.4
22.5°	3413.8	3409.5	3412.3	3408.1	3408.1	3409.5	3408.1	3405.3
25°	3258.8	3253.2	3256.0	3257.4	3257.4	3256.0	3254.6	3256.0
27.5°	3087.0	3091.3	3091.3	3088.4	3092.7	3087.0	3089.8	3091.3
30°	2911.0	2906.8	2905.4	2911.0	2919.4	2912.4	2912.4	2913.8
32.5°	2729.3	2723.7	2723.7	2726.5	2725.1	2725.1	2730.7	2723.7
35°	2535.0	2537.8	2526.5	2533.6	2536.4	2533.6	2535.0	2535.0
37.5°	2339.2	2336.4	2336.4	2336.4	2340.6	2340.6	2343.4	2342.0
40°	2146.3	2140.6	2139.2	2142.0	2136.4	2140.6	2140.6	2136.4
42.5°	1937.8	1939.3	1946.3	1939.3	1940.7	1939.3	1936.4	1935.0
45°	1744.9	1749.1	1746.3	1744.9	1746.3	1740.7	1742.1	1746.3
47.5°	1540.7	1549.1	1540.7	1546.3	1544.9	1542.1	1539.3	1533.7
50°	1349.2	1352.0	1350.6	1349.2	1347.8	1346.3	1339.3	1335.1
52.5°	1153.4	1153.4	1153.4	1153.4	1139.3	1146.4	1143.6	1135.1
55°	961.9	966.1	960.5	960.5	950.6	950.6	947.8	949.2
57.5°	777.4	773.2	768.9	768.9	759.1	754.9	750.6	745.0
60°	605.6	601.4	595.7	588.7	578.8	578.8	576.0	564.7
62.5°	443.6	436.6	432.4	426.7	418.3	412.6	408.4	411.2
65°	304.2	297.2	291.5	291.5	291.5	288.7	287.3	287.3
67.5°	200.0	204.2	201.4	204.2	204.2	201.4	200.0	202.8
70°	138.0	138.0	136.6	136.6	136.6	136.6	135.2	136.6
72.5°	88.7	88.7	88.7	90.1	88.7	88.7	90.1	90.1
75°	56.3	56.3	56.3	57.7	56.3	56.3	57.7	56.3
77.5°	33.8	35.2	35.2	35.2	35.2	33.8	35.2	35.2
80°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
82.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)