

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: P563981

Luminaire Tested: **LX6C60D010 EX6C609030 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P563981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C60D010 EX6C609030 6LCSWH  
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

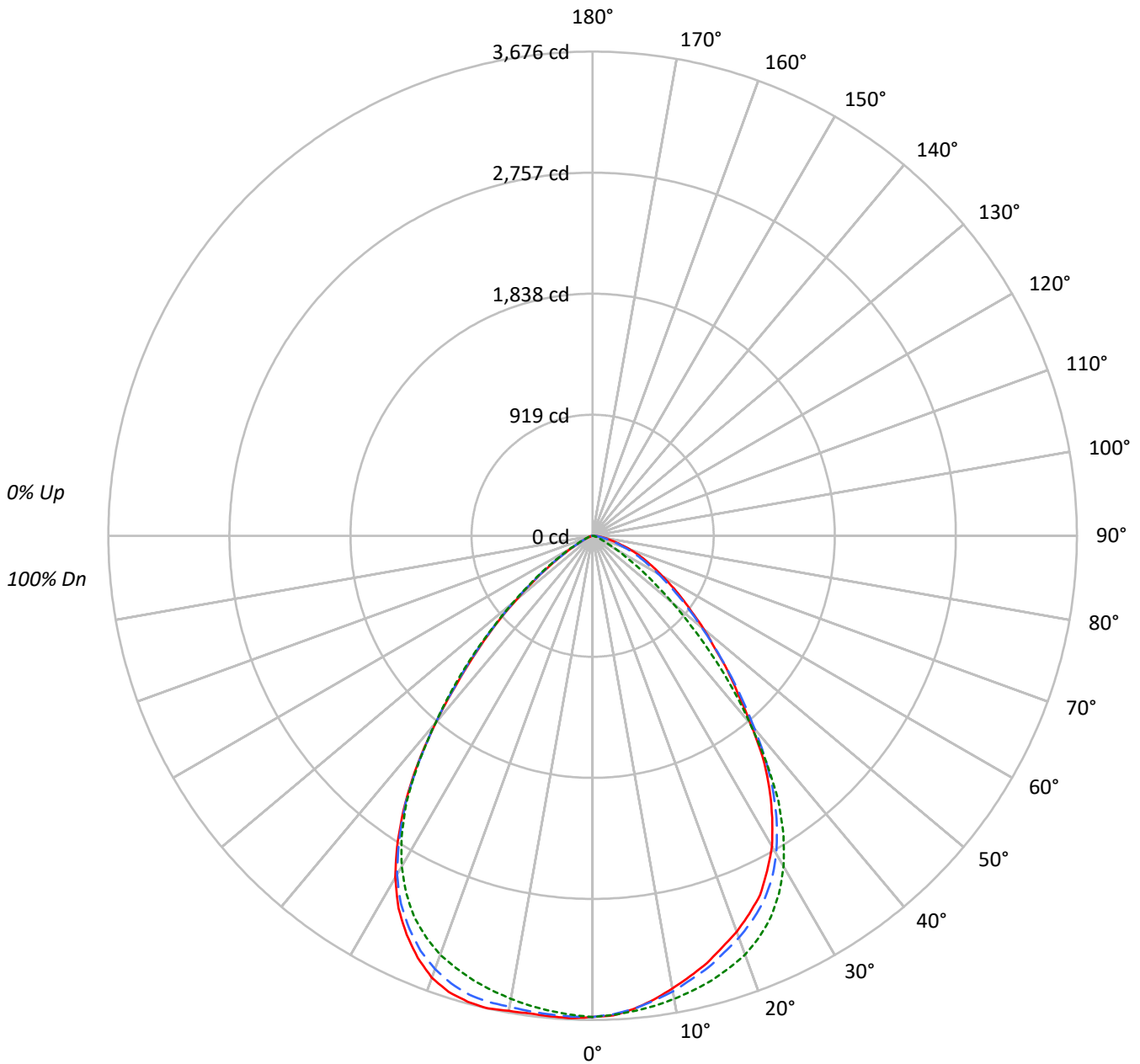
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6129.6 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	200296	200296	200296
5°	198387	199356	201546
10°	194296	198716	203876
15°	190580	198344	207862
20°	186630	197440	208256
25°	182031	193505	202046
30°	172343	183509	189662
35°	156506	164490	165963
40°	133579	132935	132312
45°	112205	99545	96467
50°	93711	67367	63981
55°	78869	41327	37533
60°	66771	21786	18869
65°	57814	11454	9145
70°	48085	7069	4937
75°	35520	4681	2817
80°	27876	2747	1421
85°	22203	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.3	5.6
10°-20°	985.9	16.1
20°-30°	1455.9	23.8
30°-40°	1500.4	24.5
40°-50°	1036.3	16.9
50°-60°	510.8	8.3
60°-70°	207.0	3.4
70°-80°	73.8	1.2
80°-90°	15.3	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°	2786.1	45.5
0°-40°	4286.5	69.9
0°-60°	5833.6	95.2
0°-90°	6129.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6129.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3654	3654	3654	3654	3654	
5°	3605	3605	3623	3649	3662	340
15°	3358	3393	3495	3610	3662	945
25°	3009	3067	3199	3292	3340	1376
35°	2339	2396	2458	2471	2480	1449
45°	1447	1456	1284	1266	1244	1119
55°	825	794	432	406	393	746
65°	446	402	88	70	70	443
75°	168	141	22	13	13	188
85°	35	26	4	0	0	43
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°	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7
2.5°	3644.7	3631.6	3640.5	3622.7	3644.7	3622.7	3627.1	3631.6	3627.1	3631.6	3636.0
5°	3605.1	3591.8	3605.1	3583.0	3605.1	3591.8	3591.8	3596.3	3596.3	3600.6	3605.1
7.5°	3552.2	3538.8	3552.2	3530.1	3556.4	3543.4	3543.4	3552.2	3547.7	3552.2	3560.9
10°	3490.4	3472.7	3485.9	3472.7	3499.3	3481.5	3490.4	3490.4	3490.4	3503.5	3512.5
12.5°	3424.2	3406.5	3424.2	3402.1	3428.6	3415.5	3419.7	3433.0	3437.3	3446.3	3450.6
15°	3358.0	3335.9	3344.8	3331.4	3358.0	3344.8	3349.2	3366.8	3366.8	3380.1	3393.4
17.5°	3274.3	3256.5	3274.3	3256.5	3278.5	3269.8	3278.5	3291.8	3291.8	3305.1	3318.2
20°	3199.1	3181.5	3194.7	3181.5	3208.0	3194.7	3199.1	3216.8	3221.2	3234.4	3247.7
22.5°	3106.4	3093.2	3102.0	3088.8	3115.3	3106.4	3110.9	3128.5	3133.0	3141.8	3163.9
25°	3009.4	2982.8	2996.2	2987.3	3013.9	3000.6	3009.4	3027.0	3035.9	3049.1	3066.8
27.5°	2868.2	2854.9	2863.7	2863.7	2885.8	2872.7	2876.9	2894.7	2907.9	2921.1	2943.2
30°	2722.6	2700.6	2709.4	2713.7	2731.5	2722.6	2731.5	2749.1	2753.6	2771.2	2788.7
32.5°	2537.3	2528.4	2546.1	2537.3	2546.1	2546.1	2550.4	2563.6	2572.5	2581.5	2603.5
35°	2338.6	2321.0	2338.6	2329.9	2352.0	2338.6	2352.0	2365.2	2365.2	2382.8	2396.1
37.5°	2122.5	2100.4	2109.2	2109.2	2118.0	2113.6	2113.6	2135.7	2140.1	2153.3	2166.6
40°	1866.6	1857.6	1875.4	1870.9	1875.4	1875.4	1879.7	1893.0	1901.8	1906.2	1910.7
42.5°	1637.1	1641.5	1645.9	1645.9	1645.9	1645.9	1645.9	1663.5	1659.2	1672.5	1676.8
45°	1447.3	1429.7	1438.5	1434.2	1447.3	1434.2	1447.3	1460.6	1451.7	1465.1	1456.1
47.5°	1253.1	1253.1	1253.1	1248.8	1257.7	1253.1	1261.9	1266.4	1266.4	1266.4	1261.9
50°	1098.8	1085.6	1089.8	1089.8	1094.3	1089.8	1098.8	1103.2	1103.2	1094.3	1076.7
52.5°	948.6	944.4	944.4	953.1	953.1	948.6	948.6	948.6	948.6	935.5	926.6
55°	825.2	816.4	820.7	820.7	820.7	820.7	825.2	820.7	820.7	807.5	794.3
57.5°	714.9	706.0	706.0	706.0	710.4	706.0	706.0	706.0	701.6	688.3	670.7
60°	609.0	604.5	609.0	609.0	613.3	609.0	609.0	609.0	600.1	586.9	569.1
62.5°	520.7	520.7	520.7	525.0	525.0	520.7	520.7	516.2	512.0	494.2	476.6
65°	445.7	441.3	445.7	445.7	450.0	450.0	445.7	441.3	436.9	419.2	401.6
67.5°	370.7	366.2	370.7	370.7	375.0	370.7	370.7	370.7	357.4	348.6	330.9
70°	300.0	295.7	295.7	295.7	300.0	291.2	295.7	295.7	286.9	273.6	255.8
72.5°	229.5	229.5	229.5	229.5	229.5	229.5	225.0	225.0	216.3	202.9	194.2
75°	167.7	167.7	172.1	172.1	167.7	167.7	167.7	163.3	158.8	150.0	141.2
77.5°	123.6	123.6	123.6	123.6	119.1	119.1	119.1	114.6	110.4	105.9	97.0
80°	88.3	88.3	88.3	83.8	88.3	83.8	83.8	83.8	75.0	70.5	66.2
82.5°	61.7	57.4	57.4	57.4	57.4	57.4	57.4	52.9	52.9	48.6	44.1
85°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	30.8	26.5	26.5
87.5°	17.6	22.1	22.1	22.1	22.1	22.1	22.1	17.6	17.6	17.6	13.3
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°	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7
2.5°	3636.0	3636.0	3644.7	3631.6	3653.7	3640.5	3636.0	3658.1	3644.7	3640.5	3649.2
5°	3605.1	3609.5	3613.9	3605.1	3627.1	3613.9	3613.9	3636.0	3627.1	3622.7	3636.0
7.5°	3565.4	3569.8	3578.5	3574.2	3591.8	3583.0	3587.5	3609.5	3600.6	3600.6	3613.9
10°	3516.9	3525.6	3534.6	3534.6	3556.4	3547.7	3547.7	3574.2	3565.4	3569.8	3587.5
12.5°	3459.4	3472.7	3485.9	3490.4	3512.5	3499.3	3503.5	3534.6	3530.1	3534.6	3552.2
15°	3397.7	3415.5	3428.6	3428.6	3455.1	3441.8	3455.1	3485.9	3477.2	3494.8	3516.9
17.5°	3327.2	3344.8	3362.4	3366.8	3393.4	3384.4	3402.1	3433.0	3433.0	3441.8	3468.3
20°	3260.9	3283.0	3291.8	3305.1	3331.4	3327.2	3335.9	3371.3	3371.3	3384.4	3411.0
22.5°	3172.6	3194.7	3212.3	3225.6	3247.7	3247.7	3260.9	3291.8	3291.8	3300.6	3327.2
25°	3075.6	3102.0	3115.3	3128.5	3150.6	3146.1	3159.4	3186.0	3190.2	3199.1	3225.6
27.5°	2952.0	2974.1	2991.8	3000.6	3031.5	3013.9	3027.0	3058.0	3053.5	3062.3	3084.4
30°	2797.7	2819.7	2837.3	2837.3	2863.7	2863.7	2876.9	2890.3	2890.3	2899.0	2916.8
32.5°	2616.6	2643.2	2643.2	2656.4	2674.0	2656.4	2674.0	2691.6	2682.9	2696.1	2709.4
35°	2409.2	2422.5	2426.9	2426.9	2440.3	2435.8	2431.3	2444.5	2435.8	2457.9	2471.1
37.5°	2157.8	2175.4	2166.6	2175.4	2170.9	2157.8	2157.8	2179.9	2162.2	2166.6	2179.9
40°	1915.1	1915.1	1910.7	1888.6	1893.0	1879.7	1875.4	1879.7	1862.1	1857.6	1875.4
42.5°	1663.5	1659.2	1645.9	1615.0	1619.4	1597.3	1579.7	1579.7	1570.9	1566.4	1570.9
45°	1438.5	1425.2	1403.1	1367.9	1359.0	1341.4	1306.1	1297.2	1284.0	1284.0	1288.5
47.5°	1231.1	1213.5	1178.1	1138.5	1116.4	1094.3	1059.0	1045.7	1023.6	1014.9	1023.6
50°	1059.0	1028.1	984.0	926.6	904.5	878.1	842.8	820.7	798.6	789.9	785.4
52.5°	900.2	856.1	811.9	741.4	723.6	697.3	648.7	626.6	604.5	586.9	586.9
55°	763.3	723.6	661.9	595.7	569.1	542.8	494.2	463.3	441.3	432.4	423.7
57.5°	639.8	595.7	538.3	467.8	441.3	414.8	366.2	335.4	313.3	300.0	291.2
60°	538.3	489.9	432.4	370.7	339.8	313.3	264.9	233.8	211.8	198.7	189.7
62.5°	441.3	401.6	344.1	286.9	260.3	233.8	194.2	163.3	141.2	132.4	119.1
65°	370.7	330.9	277.9	229.5	207.4	180.9	145.7	119.1	101.5	88.3	79.4
67.5°	300.0	269.2	225.0	180.9	158.8	141.2	110.4	88.3	70.5	61.7	57.4
70°	238.3	207.4	172.1	136.7	123.6	105.9	83.8	61.7	52.9	44.1	39.7
72.5°	176.6	154.5	128.0	101.5	88.3	79.4	57.4	48.6	35.3	30.8	26.5
75°	128.0	110.4	92.6	70.5	61.7	57.4	44.1	30.8	26.5	22.1	17.6
77.5°	88.3	79.4	61.7	48.6	44.1	39.7	30.8	22.1	17.6	13.3	13.3
80°	57.4	48.6	39.7	30.8	30.8	26.5	17.6	13.3	13.3	8.7	8.7
82.5°	35.3	30.8	26.5	22.1	17.6	17.6	13.3	8.7	8.7	4.5	4.5
85°	22.1	17.6	13.3	13.3	8.7	8.7	8.7	4.5	4.5	4.5	4.5
87.5°	8.7	8.7	8.7	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0
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°	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7
2.5°	3649.2	3649.2	3658.1	3644.7	3653.7	3653.7	3662.5	3644.7	3653.7	3658.1	3666.8
5°	3631.6	3636.0	3644.7	3640.5	3644.7	3644.7	3653.7	3631.6	3649.2	3649.2	3662.5
7.5°	3613.9	3613.9	3622.7	3618.4	3627.1	3631.6	3640.5	3622.7	3640.5	3640.5	3653.7
10°	3591.8	3591.8	3605.1	3600.6	3613.9	3618.4	3631.6	3613.9	3631.6	3636.0	3649.2
12.5°	3560.9	3565.4	3578.5	3578.5	3591.8	3600.6	3613.9	3605.1	3627.1	3631.6	3649.2
15°	3525.6	3534.6	3552.2	3547.7	3560.9	3574.2	3591.8	3578.5	3609.5	3618.4	3636.0
17.5°	3481.5	3490.4	3503.5	3503.5	3516.9	3525.6	3547.7	3538.8	3565.4	3569.8	3591.8
20°	3415.5	3428.6	3446.3	3441.8	3455.1	3463.9	3481.5	3472.7	3499.3	3508.0	3530.1
22.5°	3335.9	3344.8	3358.0	3358.0	3371.3	3380.1	3397.7	3384.4	3411.0	3415.5	3433.0
25°	3230.1	3238.9	3247.7	3252.2	3265.2	3269.8	3278.5	3269.8	3291.8	3296.3	3318.2
27.5°	3093.2	3097.7	3110.9	3110.9	3119.8	3124.0	3137.3	3119.8	3150.6	3150.6	3163.9
30°	2929.9	2925.6	2943.2	2934.4	2943.2	2943.2	2956.5	2947.6	2969.7	2961.0	2974.1
32.5°	2713.7	2722.6	2722.6	2713.7	2731.5	2727.0	2727.0	2718.2	2731.5	2735.8	2744.6
35°	2462.3	2475.5	2475.5	2479.9	2484.4	2471.1	2475.5	2449.0	2471.1	2475.5	2479.9
37.5°	2188.7	2175.4	2184.2	2170.9	2193.0	2166.6	2166.6	2149.0	2166.6	2166.6	2170.9
40°	1875.4	1870.9	1879.7	1870.9	1866.6	1862.1	1853.3	1840.0	1857.6	1848.9	1862.1
42.5°	1579.7	1575.2	1575.2	1566.4	1562.1	1562.1	1553.3	1544.3	1540.0	1540.0	1562.1
45°	1275.2	1284.0	1275.2	1270.9	1279.6	1270.9	1275.2	1257.7	1266.4	1257.7	1266.4
47.5°	1019.3	1023.6	1014.9	1006.0	1019.3	1006.0	1006.0	992.8	1010.6	1010.6	1001.5
50°	789.9	785.4	776.5	785.4	781.0	781.0	781.0	767.8	776.5	763.3	772.3
52.5°	582.4	578.1	578.1	573.6	578.1	573.6	573.6	569.1	569.1	564.9	569.1
55°	423.7	419.2	410.3	410.3	410.3	414.8	410.3	406.1	406.1	401.6	406.1
57.5°	286.9	277.9	277.9	277.9	277.9	273.6	273.6	269.2	273.6	269.2	273.6
60°	185.3	185.3	176.6	176.6	176.6	176.6	176.6	172.1	176.6	176.6	176.6
62.5°	114.6	114.6	110.4	105.9	110.4	105.9	105.9	105.9	110.4	105.9	110.4
65°	75.0	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
67.5°	52.9	48.6	48.6	48.6	48.6	48.6	48.6	44.1	48.6	48.6	48.6
70°	35.3	35.3	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
72.5°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
75°	17.6	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
77.5°	13.3	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
80°	8.7	8.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P563981

CATALOG NUMBER: LX6C60D010 EX6C609030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7	3653.7
2.5°	3653.7	3658.1	3649.2	3653.7	3644.7	3653.7	3658.1	3666.8
5°	3644.7	3649.2	3640.5	3649.2	3640.5	3649.2	3653.7	3662.5
7.5°	3636.0	3644.7	3636.0	3644.7	3636.0	3644.7	3649.2	3658.1
10°	3636.0	3649.2	3640.5	3653.7	3640.5	3649.2	3658.1	3662.5
12.5°	3636.0	3649.2	3644.7	3653.7	3649.2	3658.1	3666.8	3675.7
15°	3627.1	3640.5	3631.6	3644.7	3640.5	3644.7	3662.5	3662.5
17.5°	3578.5	3591.8	3591.8	3600.6	3600.6	3613.9	3622.7	3631.6
20°	3516.9	3530.1	3525.6	3538.8	3538.8	3552.2	3560.9	3569.8
22.5°	3424.2	3441.8	3437.3	3450.6	3446.3	3455.1	3472.7	3468.3
25°	3305.1	3327.2	3322.7	3331.4	3327.2	3327.2	3335.9	3340.3
27.5°	3159.4	3172.6	3168.2	3177.1	3168.2	3177.1	3186.0	3190.2
30°	2969.7	2978.6	2974.1	2978.6	2974.1	2982.8	2987.3	2996.2
32.5°	2740.2	2753.6	2740.2	2749.1	2744.6	2744.6	2762.3	2753.6
35°	2466.6	2471.1	2475.5	2475.5	2466.6	2471.1	2479.9	2479.9
37.5°	2162.2	2184.2	2157.8	2170.9	2166.6	2166.6	2166.6	2179.9
40°	1844.5	1848.9	1840.0	1840.0	1840.0	1835.5	1853.3	1848.9
42.5°	1544.3	1548.8	1544.3	1531.3	1535.6	1535.6	1548.8	1531.3
45°	1253.1	1261.9	1257.7	1257.7	1248.8	1248.8	1253.1	1244.3
47.5°	992.8	1001.5	988.5	992.8	984.0	992.8	988.5	997.3
50°	754.5	763.3	759.0	763.3	763.3	754.5	767.8	750.2
52.5°	564.9	569.1	564.9	560.4	556.0	556.0	564.9	560.4
55°	401.6	397.1	397.1	397.1	401.6	401.6	397.1	392.7
57.5°	269.2	269.2	264.9	264.9	269.2	260.3	264.9	260.3
60°	172.1	172.1	172.1	172.1	167.7	172.1	172.1	172.1
62.5°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9
65°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
67.5°	44.1	48.6	48.6	48.6	44.1	44.1	44.1	44.1
70°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
72.5°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
75°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
77.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	0.0	0.0	0.0
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)