

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252631

Luminaire Tested: **LE\_6B60D010R EC6B60709040 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709040 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6456.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

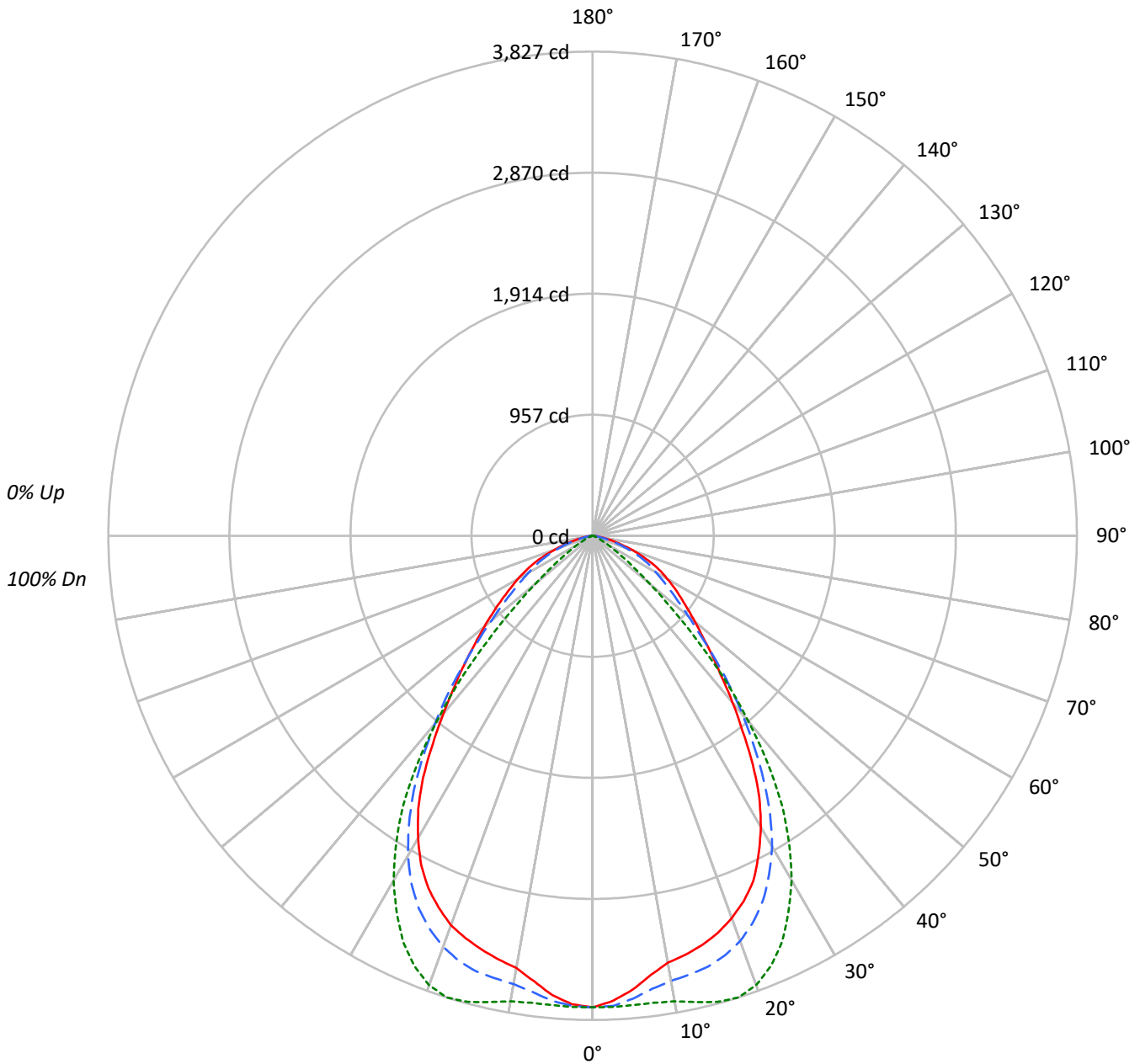
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°	90°	180°
0°	243184	243184	243184
5°	235927	243832	238750
10°	226956	247506	229811
15°	226144	257592	228772
20°	223196	262381	227375
25°	216524	254986	221174
30°	200304	236984	207762
35°	175727	208333	186017
40°	146434	163314	155981
45°	123256	107746	131606
50°	106723	59051	113280
55°	96557	31370	99014
60°	88845	16310	88845
65°	80490	8645	78498
70°	64932	4940	60010
75°	44516	3252	41289
80°	29155	1578	25924
85°	19388	3144	16094



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.6	5.4
10°-20°	1005.1	15.6
20°-30°	1485.0	23.0
30°-40°	1500.0	23.2
40°-50°	1033.9	16.0
50°-60°	593.8	9.2
60°-70°	345.6	5.4
70°-80°	126.1	2.0
80°-90°	19.2	0.3
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°	2837.7	44.0
0°-40°	4337.7	67.2
0°-60°	5965.3	92.4
0°-90°	6456.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6456.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3728	3728	3728	3728	3728	
5°	3602	3672	3723	3689	3646	338
15°	3348	3525	3814	3564	3387	943
25°	3008	3184	3542	3249	3072	1370
35°	2206	2357	2616	2465	2336	1369
45°	1336	1353	1168	1439	1426	1039
55°	849	746	276	776	870	764
65°	521	440	56	435	508	511
75°	177	142	13	138	164	199
85°	26	13	4	17	22	33
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°	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5
2.5°	3680.1	3684.4	3688.8	3684.4	3688.8	3706.0	3693.0	3701.6	3701.6	3706.0	3718.9
5°	3602.5	3602.5	3611.1	3606.9	3619.8	3637.0	3624.1	3637.0	3641.4	3650.0	3671.5
7.5°	3503.4	3503.4	3507.8	3507.8	3525.0	3542.2	3533.6	3550.9	3568.1	3585.2	3611.1
10°	3425.9	3434.5	3434.5	3438.8	3456.0	3477.6	3473.2	3494.9	3512.0	3537.9	3572.4
12.5°	3391.4	3395.8	3395.8	3404.4	3421.5	3443.1	3438.8	3460.4	3486.2	3516.4	3550.9
15°	3348.2	3356.9	3352.6	3361.2	3378.5	3400.0	3395.8	3417.2	3447.4	3477.6	3525.0
17.5°	3292.2	3296.6	3300.9	3300.9	3318.1	3335.4	3335.4	3356.9	3391.4	3425.9	3477.6
20°	3214.8	3223.4	3223.4	3227.6	3240.6	3266.4	3262.1	3283.6	3318.1	3352.6	3408.6
22.5°	3124.2	3128.5	3128.5	3132.9	3154.4	3167.2	3171.6	3188.9	3219.0	3257.8	3309.5
25°	3007.9	3012.1	3007.9	3020.8	3029.4	3055.2	3046.6	3068.2	3102.6	3132.9	3184.5
27.5°	2839.8	2848.4	2848.4	2852.8	2874.2	2895.9	2895.9	2917.4	2947.5	2969.1	3020.8
30°	2658.9	2671.8	2658.9	2680.4	2689.0	2706.2	2719.1	2732.1	2757.9	2788.1	2835.5
32.5°	2452.0	2447.6	2452.0	2460.6	2486.5	2499.4	2508.0	2520.9	2546.8	2572.6	2611.4
35°	2206.4	2215.0	2219.2	2236.5	2236.5	2258.0	2262.4	2271.0	2309.8	2327.0	2357.1
37.5°	1947.8	1956.4	1960.8	1969.4	1986.6	1995.2	2008.1	2021.0	2046.9	2077.1	2094.2
40°	1719.4	1719.4	1723.8	1732.4	1745.2	1749.5	1762.5	1779.8	1797.0	1822.9	1840.0
42.5°	1503.9	1508.2	1503.9	1512.5	1525.5	1542.8	1538.4	1560.0	1564.2	1581.5	1594.4
45°	1335.9	1335.9	1327.2	1335.9	1335.9	1353.1	1348.8	1357.4	1353.1	1361.8	1353.1
47.5°	1176.4	1180.8	1176.4	1180.8	1180.8	1180.8	1185.0	1176.4	1180.8	1167.8	1142.0
50°	1051.5	1055.8	1047.1	1051.5	1047.1	1042.9	1047.1	1034.2	1029.9	1012.6	986.9
52.5°	943.8	939.4	935.1	935.1	935.1	930.8	926.5	913.6	900.6	883.4	853.2
55°	848.9	844.6	840.2	840.2	831.8	827.4	827.4	814.5	801.5	780.0	745.5
57.5°	762.8	758.4	754.1	754.1	749.8	741.2	741.2	728.2	711.0	685.1	655.0
60°	680.9	680.9	680.9	676.5	676.5	667.9	667.9	655.0	637.8	611.9	577.5
62.5°	607.6	603.2	603.2	603.2	603.2	599.0	594.6	586.0	568.9	543.0	512.8
65°	521.4	521.4	521.4	521.4	517.1	517.1	517.1	504.1	495.6	469.8	439.5
67.5°	426.6	426.6	426.6	426.6	422.2	426.6	426.6	418.0	409.4	383.5	357.6
70°	340.4	336.1	331.9	336.1	331.9	331.9	336.1	327.5	323.2	301.6	275.8
72.5°	249.9	254.2	249.9	249.9	249.9	245.6	249.9	245.6	237.0	219.8	202.5
75°	176.6	181.0	181.0	176.6	176.6	176.6	172.4	172.4	163.8	150.9	142.2
77.5°	120.6	120.6	120.6	120.6	116.4	116.4	116.4	112.0	107.8	99.1	90.5
80°	77.6	77.6	77.6	77.6	73.2	73.2	73.2	69.0	69.0	60.4	51.8
82.5°	47.4	47.4	47.4	47.4	47.4	47.4	43.1	43.1	38.8	34.5	30.1
85°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	21.5	21.5	17.2	12.9
87.5°	8.6	8.6	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6	8.6
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°	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5
2.5°	3710.2	3714.6	3714.6	3714.6	3727.5	3731.9	3718.9	3706.0	3731.9	3727.5	3736.1
5°	3667.1	3680.1	3688.8	3693.0	3706.0	3714.6	3701.6	3697.4	3718.9	3723.2	3727.5
7.5°	3615.5	3637.0	3658.6	3667.1	3684.4	3693.0	3688.8	3688.8	3714.6	3723.2	3723.2
10°	3581.0	3611.1	3637.0	3658.6	3680.1	3693.0	3693.0	3697.4	3727.5	3736.1	3744.8
12.5°	3572.4	3611.1	3645.6	3675.8	3693.0	3714.6	3718.9	3731.9	3762.0	3774.9	3774.9
15°	3550.9	3602.5	3645.6	3684.4	3710.2	3736.1	3744.8	3770.6	3805.1	3813.8	3822.4
17.5°	3512.0	3563.8	3615.5	3662.9	3697.4	3718.9	3744.8	3770.6	3813.8	3826.6	3830.9
20°	3443.1	3503.4	3555.1	3602.5	3637.0	3667.1	3693.0	3723.2	3762.0	3779.2	3783.5
22.5°	3339.6	3400.0	3451.8	3503.4	3537.9	3563.8	3589.6	3624.1	3662.9	3680.1	3680.1
25°	3214.8	3270.8	3326.8	3365.5	3400.0	3430.1	3443.1	3481.9	3520.6	3542.2	3542.2
27.5°	3055.2	3107.0	3158.8	3201.8	3223.4	3249.1	3270.8	3305.2	3335.4	3352.6	3369.9
30°	2852.8	2904.5	2951.9	2995.0	3020.8	3046.6	3068.2	3094.0	3124.2	3145.8	3150.1
32.5°	2633.0	2676.0	2723.5	2766.5	2792.4	2801.0	2822.6	2848.4	2874.2	2891.5	2895.9
35°	2391.6	2421.8	2452.0	2490.8	2516.6	2516.6	2538.1	2555.4	2577.0	2615.8	2607.1
37.5°	2107.2	2150.4	2171.9	2184.8	2202.0	2219.2	2223.6	2245.1	2271.0	2279.6	2292.5
40°	1840.0	1853.0	1865.9	1865.9	1883.1	1883.1	1883.1	1887.5	1913.4	1917.6	1934.9
42.5°	1572.9	1572.9	1560.0	1547.0	1551.4	1547.0	1525.5	1525.5	1538.4	1555.6	1555.6
45°	1323.0	1292.8	1254.0	1223.9	1202.2	1193.6	1167.8	1167.8	1163.5	1167.8	1185.0
47.5°	1111.8	1060.1	995.5	935.1	913.6	896.4	857.5	840.2	831.8	836.0	844.6
50°	935.1	879.1	805.9	732.6	693.8	672.2	624.9	594.6	590.4	581.8	599.0
52.5°	805.9	736.9	659.4	573.1	534.4	499.9	448.1	422.2	405.1	405.1	409.4
55°	693.8	620.5	534.4	448.1	409.4	383.5	331.9	297.4	280.1	275.8	288.8
57.5°	599.0	530.0	443.9	357.6	318.9	288.8	237.0	206.9	193.9	185.2	189.6
60°	525.8	456.8	370.6	288.8	254.2	219.8	176.6	142.2	125.0	125.0	129.2
62.5°	456.8	392.1	314.6	237.0	206.9	176.6	129.2	99.1	86.1	81.9	86.1
65°	387.9	327.5	262.9	198.2	168.0	142.2	103.4	77.6	60.4	56.0	60.4
67.5°	314.6	267.1	211.1	159.5	133.6	112.0	77.6	56.0	43.1	38.8	43.1
70°	245.6	202.5	159.5	116.4	99.1	81.9	56.0	43.1	30.1	25.9	30.1
72.5°	176.6	146.5	112.0	81.9	69.0	56.0	38.8	30.1	21.5	17.2	21.5
75°	120.6	99.1	73.2	51.8	43.1	38.8	25.9	17.2	12.9	12.9	12.9
77.5°	77.6	60.4	47.4	34.5	25.9	21.5	12.9	8.6	8.6	8.6	8.6
80°	43.1	34.5	25.9	17.2	12.9	12.9	8.6	8.6	4.2	4.2	4.2
82.5°	25.9	17.2	12.9	8.6	8.6	4.2	4.2	4.2	4.2	4.2	4.2
85°	12.9	8.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	0.0	0.0	0.0	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°	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5
2.5°	3718.9	3723.2	3710.2	3727.5	3714.6	3731.9	3731.9	3714.6	3718.9	3710.2	3727.5
5°	3710.2	3710.2	3701.6	3714.6	3697.4	3714.6	3710.2	3680.1	3688.8	3671.5	3688.8
7.5°	3710.2	3701.6	3688.8	3701.6	3680.1	3693.0	3675.8	3645.6	3637.0	3615.5	3615.5
10°	3723.2	3710.2	3693.0	3697.4	3675.8	3680.1	3654.2	3611.1	3598.2	3572.4	3563.8
12.5°	3753.4	3740.5	3714.6	3723.2	3693.0	3693.0	3658.6	3606.9	3581.0	3546.5	3537.9
15°	3796.5	3774.9	3744.8	3749.0	3718.9	3701.6	3658.6	3598.2	3563.8	3516.4	3503.4
17.5°	3805.1	3783.5	3744.8	3744.8	3706.0	3684.4	3632.8	3563.8	3520.6	3473.2	3447.4
20°	3757.6	3736.1	3693.0	3688.8	3654.2	3624.1	3568.1	3499.1	3456.0	3404.4	3382.8
22.5°	3658.6	3632.8	3593.9	3589.6	3555.1	3537.9	3477.6	3408.6	3365.5	3313.9	3296.6
25°	3512.0	3499.1	3460.4	3456.0	3425.9	3404.4	3352.6	3288.0	3249.1	3197.5	3180.2
27.5°	3339.6	3326.8	3288.0	3288.0	3253.5	3240.6	3193.1	3132.9	3102.6	3055.2	3033.8
30°	3132.9	3115.6	3094.0	3089.8	3059.6	3046.6	3003.5	2947.5	2917.4	2878.6	2870.0
32.5°	2887.2	2874.2	2861.4	2857.0	2826.9	2814.0	2783.8	2727.8	2701.9	2667.4	2654.5
35°	2602.8	2594.1	2581.2	2577.0	2564.0	2551.1	2520.9	2477.9	2464.9	2439.0	2426.1
37.5°	2275.2	2283.9	2275.2	2275.2	2262.4	2266.6	2240.9	2215.0	2202.0	2184.8	2176.1
40°	1921.9	1939.1	1952.1	1952.1	1947.8	1965.0	1960.8	1939.1	1934.9	1926.2	1921.9
42.5°	1564.2	1572.9	1598.8	1616.0	1611.6	1654.8	1659.1	1676.2	1689.2	1680.6	1684.9
45°	1189.4	1215.2	1249.6	1266.9	1288.5	1344.5	1374.6	1409.1	1439.2	1456.5	1452.2
47.5°	857.5	887.8	926.5	952.4	991.1	1060.1	1137.6	1180.8	1223.9	1245.4	1266.9
50°	620.5	650.8	698.1	736.9	762.8	857.5	939.4	995.5	1042.9	1073.0	1094.5
52.5°	435.2	469.8	521.4	555.9	594.6	685.1	780.0	844.6	896.4	935.1	956.6
55°	301.6	340.4	387.9	422.2	465.4	560.2	650.8	719.6	775.6	810.1	836.0
57.5°	211.1	245.6	293.0	323.2	366.2	456.8	547.2	616.2	672.2	706.8	736.9
60°	142.2	176.6	224.1	254.2	288.8	379.2	461.1	534.4	586.0	620.5	650.8
62.5°	99.1	129.2	176.6	206.9	237.0	314.6	392.1	456.8	508.5	547.2	573.1
65°	77.6	103.4	142.2	168.0	198.2	262.9	327.5	383.5	435.2	474.0	491.2
67.5°	56.0	81.9	112.0	133.6	155.1	211.1	267.1	310.2	357.6	387.9	409.4
70°	38.8	56.0	81.9	99.1	116.4	159.5	202.5	241.4	275.8	297.4	314.6
72.5°	30.1	38.8	56.0	69.0	81.9	112.0	146.5	176.6	202.5	219.8	237.0
75°	17.2	25.9	38.8	47.4	56.0	77.6	99.1	120.6	137.9	150.9	159.5
77.5°	8.6	12.9	21.5	25.9	34.5	47.4	64.6	77.6	90.5	99.1	107.8
80°	8.6	8.6	12.9	12.9	17.2	25.9	34.5	43.1	51.8	60.4	64.6
82.5°	4.2	4.2	8.6	8.6	8.6	12.9	17.2	25.9	30.1	34.5	38.8
85°	4.2	4.2	4.2	4.2	4.2	8.6	8.6	12.9	17.2	21.5	21.5
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	8.6	8.6	8.6	12.9
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: P252631

CATALOG NUMBER: LE\_6B60D010R EC6B60709040 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5	3727.5
2.5°	3714.6	3723.2	3718.9	3727.5	3714.6	3710.2	3718.9	3706.0
5°	3667.1	3671.5	3667.1	3667.1	3658.6	3650.0	3658.6	3645.6
7.5°	3593.9	3593.9	3581.0	3581.0	3563.8	3555.1	3555.1	3550.9
10°	3533.6	3520.6	3507.8	3512.0	3486.2	3477.6	3473.2	3469.0
12.5°	3503.4	3494.9	3473.2	3473.2	3447.4	3438.8	3434.5	3430.1
15°	3469.0	3451.8	3434.5	3430.1	3408.6	3400.0	3395.8	3387.1
17.5°	3408.6	3395.8	3374.1	3374.1	3352.6	3348.2	3339.6	3335.4
20°	3344.0	3326.8	3309.5	3309.5	3283.6	3283.6	3270.8	3275.0
22.5°	3253.5	3240.6	3223.4	3223.4	3201.8	3197.5	3184.5	3180.2
25°	3145.8	3128.5	3115.6	3111.2	3094.0	3085.4	3081.1	3072.5
27.5°	3003.5	2990.6	2977.8	2969.1	2947.5	2943.2	2930.2	2934.6
30°	2826.9	2818.2	2814.0	2805.4	2779.5	2770.9	2770.9	2757.9
32.5°	2633.0	2620.0	2611.4	2598.5	2577.0	2572.6	2559.8	2564.0
35°	2396.0	2378.8	2365.8	2370.1	2344.2	2339.9	2331.4	2335.6
37.5°	2150.4	2133.1	2115.9	2111.5	2090.0	2090.0	2077.1	2077.1
40°	1896.1	1878.9	1870.2	1870.2	1844.4	1848.6	1835.8	1831.5
42.5°	1667.6	1650.5	1646.1	1641.9	1628.9	1624.6	1611.6	1616.0
45°	1452.2	1447.9	1447.9	1439.2	1426.4	1422.0	1426.4	1426.4
47.5°	1262.6	1266.9	1262.6	1262.6	1254.0	1262.6	1254.0	1258.2
50°	1103.1	1111.8	1111.8	1111.8	1107.5	1111.8	1111.8	1116.1
52.5°	969.6	982.5	978.2	982.5	978.2	986.9	982.5	986.9
55°	853.2	861.9	866.1	870.5	870.5	870.5	870.5	870.5
57.5°	745.5	758.4	762.8	767.0	767.0	775.6	767.0	767.0
60°	659.4	672.2	676.5	680.9	680.9	685.1	676.5	680.9
62.5°	581.8	594.6	594.6	599.0	599.0	599.0	590.4	594.6
65°	504.1	508.5	512.8	512.8	508.5	508.5	504.1	508.5
67.5°	418.0	422.2	418.0	418.0	413.8	413.8	405.1	409.4
70°	323.2	323.2	327.5	323.2	318.9	323.2	318.9	314.6
72.5°	241.4	241.4	241.4	237.0	237.0	232.8	237.0	237.0
75°	163.8	163.8	168.0	168.0	168.0	168.0	163.8	163.8
77.5°	107.8	107.8	107.8	107.8	112.0	107.8	107.8	107.8
80°	69.0	69.0	73.2	73.2	69.0	69.0	69.0	69.0
82.5°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
85°	25.9	25.9	25.9	25.9	21.5	21.5	21.5	21.5
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)