

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: P252634

Luminaire Tested: **LE\_6B60D010R EC6B60709730 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252634  
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 EC6B60709730 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5555.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

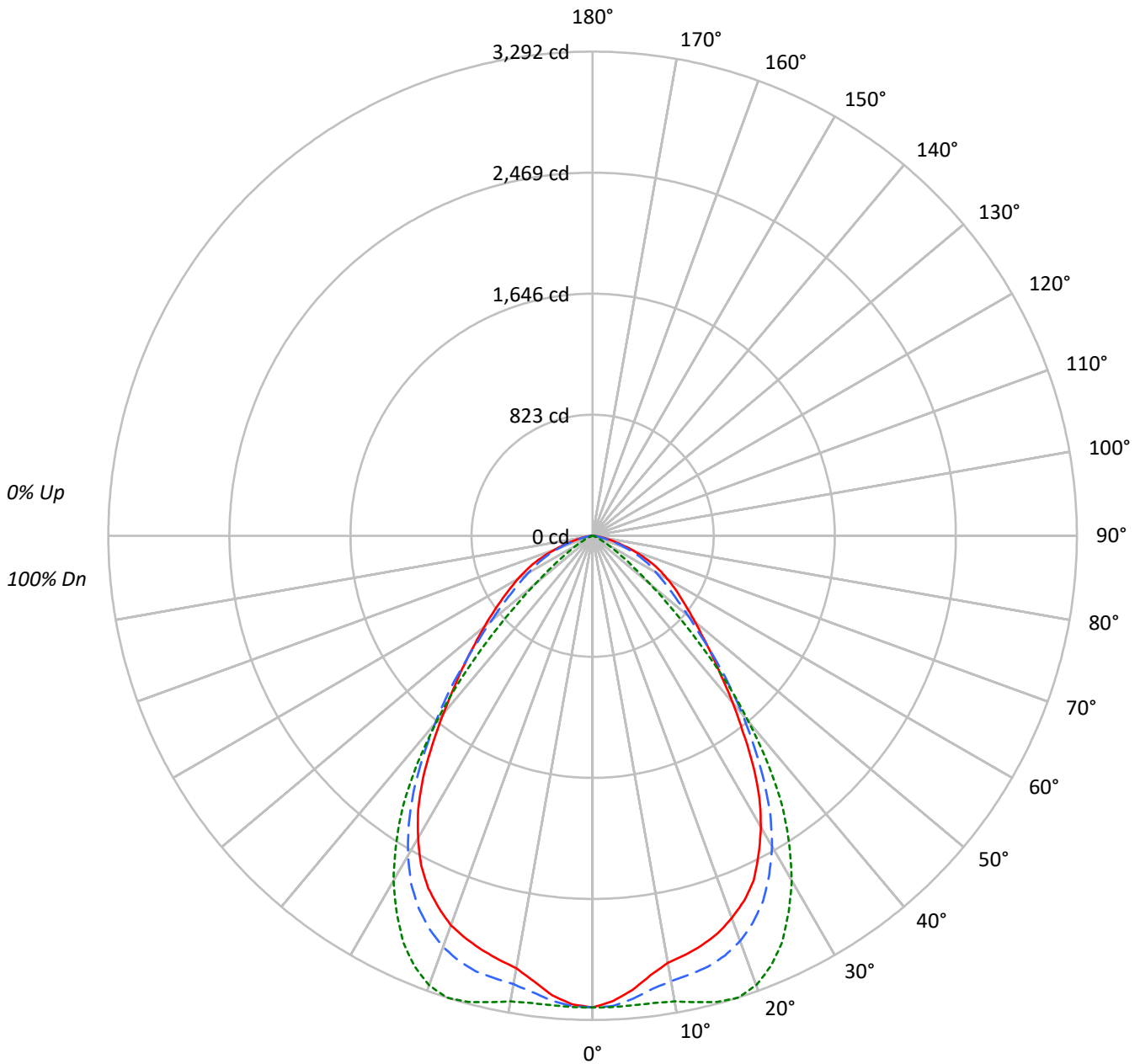
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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				100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50				50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46				46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42				42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

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

	0°	90°	180°
0°	209233	209233	209233
5°	202992	209797	205429
10°	195270	212958	197734
15°	194582	221633	196831
20°	192037	225751	195640
25°	186297	219396	190300
30°	172333	203897	178766
35°	151196	179247	160053
40°	125994	140515	134204
45°	106048	92707	113227
50°	91814	50799	97457
55°	83078	26980	85194
60°	76449	14027	76449
65°	69251	7441	67538
70°	55871	4235	51617
75°	38315	2798	35517
80°	25097	1428	22317
85°	16618	2844	13848



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.1	5.4
10°-20°	864.8	15.6
20°-30°	1277.7	23.0
30°-40°	1290.6	23.2
40°-50°	889.5	16.0
50°-60°	510.9	9.2
60°-70°	297.3	5.4
70°-80°	108.5	2.0
80°-90°	16.6	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°	2441.6	44.0
0°-40°	3732.1	67.2
0°-60°	5132.6	92.4
0°-90°	5555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3207	3207	3207	3207	3207	
5°	3100	3159	3204	3174	3137	291
15°	2881	3033	3281	3066	2914	812
25°	2588	2740	3048	2796	2644	1179
35°	1898	2028	2251	2121	2010	1178
45°	1149	1164	1005	1238	1227	894
55°	730	641	237	667	749	658
65°	449	378	48	374	438	439
75°	152	122	11	119	141	171
85°	22	11	4	15	18	28
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°	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1
2.5°	3166.4	3170.1	3173.8	3170.1	3173.8	3188.6	3177.5	3184.9	3184.9	3188.6	3199.8
5°	3099.6	3099.6	3107.1	3103.4	3114.5	3129.4	3118.2	3129.4	3133.0	3140.5	3159.0
7.5°	3014.4	3014.4	3018.1	3018.1	3032.9	3047.8	3040.4	3055.1	3070.0	3084.9	3107.1
10°	2947.6	2955.0	2955.0	2958.8	2973.6	2992.1	2988.4	3007.0	3021.8	3044.0	3073.8
12.5°	2918.0	2921.6	2921.6	2929.1	2943.9	2962.5	2958.8	2977.2	2999.5	3025.5	3055.1
15°	2880.9	2888.4	2884.6	2892.0	2906.9	2925.4	2921.6	2940.2	2966.1	2992.1	3032.9
17.5°	2832.8	2836.4	2840.1	2840.1	2855.0	2869.8	2869.8	2888.4	2918.0	2947.6	2992.1
20°	2766.0	2773.4	2773.4	2777.1	2788.2	2810.5	2806.8	2825.2	2855.0	2884.6	2932.8
22.5°	2688.1	2691.8	2691.8	2695.5	2714.0	2725.1	2728.9	2743.8	2769.6	2803.0	2847.5
25°	2588.0	2591.8	2588.0	2599.1	2606.5	2628.8	2621.4	2639.9	2669.5	2695.5	2740.0
27.5°	2443.4	2450.8	2450.8	2454.5	2473.0	2491.6	2491.6	2510.1	2536.1	2554.6	2599.1
30°	2287.6	2298.8	2287.6	2306.2	2313.6	2328.5	2339.6	2350.8	2373.0	2398.9	2439.6
32.5°	2109.8	2106.0	2109.8	2117.1	2139.4	2150.5	2157.9	2169.0	2191.2	2213.5	2246.9
35°	1898.4	1905.8	1909.5	1924.2	1924.2	1942.9	1946.5	1954.0	1987.4	2002.1	2028.1
37.5°	1675.9	1683.2	1687.0	1694.4	1709.2	1716.6	1727.8	1738.9	1761.1	1787.1	1802.0
40°	1479.4	1479.4	1483.1	1490.5	1501.6	1505.4	1516.5	1531.2	1546.1	1568.4	1583.2
42.5°	1294.0	1297.8	1294.0	1301.4	1312.5	1327.4	1323.6	1342.2	1345.9	1360.8	1371.9
45°	1149.4	1149.4	1142.0	1149.4	1149.4	1164.2	1160.5	1167.9	1164.2	1171.6	1164.2
47.5°	1012.2	1015.9	1012.2	1015.9	1015.9	1015.9	1019.6	1012.2	1015.9	1004.8	982.5
50°	904.6	908.4	901.0	904.6	901.0	897.2	901.0	889.9	886.1	871.4	849.1
52.5°	812.0	808.2	804.6	804.6	804.6	800.9	797.1	786.0	774.9	760.1	734.1
55°	730.4	726.8	723.0	723.0	715.6	711.9	711.9	700.8	689.6	671.1	641.4
57.5°	656.2	652.5	648.9	648.9	645.1	637.8	637.8	626.6	611.8	589.5	563.6
60°	585.9	585.9	585.9	582.1	582.1	574.8	574.8	563.6	548.8	526.5	496.9
62.5°	522.8	519.1	519.1	519.1	519.1	515.4	511.6	504.2	489.4	467.1	441.2
65°	448.6	448.6	448.6	448.6	444.9	444.9	444.9	433.8	426.4	404.1	378.1
67.5°	367.1	367.1	367.1	367.1	363.4	367.1	367.1	359.6	352.2	330.0	307.8
70°	292.9	289.2	285.5	289.2	285.5	285.5	289.2	281.8	278.1	259.5	237.2
72.5°	215.0	218.8	215.0	215.0	215.0	211.4	215.0	211.4	203.9	189.1	174.2
75°	152.0	155.8	155.8	152.0	152.0	152.0	148.2	148.2	140.9	129.8	122.4
77.5°	103.9	103.9	103.9	103.9	100.1	100.1	100.1	96.4	92.8	85.2	77.9
80°	66.8	66.8	66.8	66.8	63.0	63.0	63.0	59.4	59.4	51.9	44.5
82.5°	40.8	40.8	40.8	40.8	40.8	40.8	37.1	37.1	33.4	29.6	26.0
85°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	18.5	18.5	14.9	11.1
87.5°	7.4	7.4	11.1	11.1	11.1	11.1	11.1	11.1	7.4	7.4	7.4
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°	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1
2.5°	3192.4	3196.0	3196.0	3196.0	3207.1	3210.9	3199.8	3188.6	3210.9	3207.1	3214.6
5°	3155.2	3166.4	3173.8	3177.5	3188.6	3196.0	3184.9	3181.2	3199.8	3203.5	3207.1
7.5°	3110.8	3129.4	3147.9	3155.2	3170.1	3177.5	3173.8	3173.8	3196.0	3203.5	3203.5
10°	3081.1	3107.1	3129.4	3147.9	3166.4	3177.5	3177.5	3181.2	3207.1	3214.6	3222.0
12.5°	3073.8	3107.1	3136.8	3162.6	3177.5	3196.0	3199.8	3210.9	3236.9	3248.0	3248.0
15°	3055.1	3099.6	3136.8	3170.1	3192.4	3214.6	3222.0	3244.2	3273.9	3281.4	3288.8
17.5°	3021.8	3066.2	3110.8	3151.5	3181.2	3199.8	3222.0	3244.2	3281.4	3292.5	3296.1
20°	2962.5	3014.4	3058.9	3099.6	3129.4	3155.2	3177.5	3203.5	3236.9	3251.6	3255.4
22.5°	2873.5	2925.4	2969.9	3014.4	3044.0	3066.2	3088.5	3118.2	3151.5	3166.4	3166.4
25°	2766.0	2814.1	2862.4	2895.8	2925.4	2951.4	2962.5	2995.9	3029.2	3047.8	3047.8
27.5°	2628.8	2673.2	2717.8	2754.9	2773.4	2795.6	2814.1	2843.9	2869.8	2884.6	2899.4
30°	2454.5	2499.0	2539.8	2576.9	2599.1	2621.4	2639.9	2662.1	2688.1	2706.6	2710.4
32.5°	2265.4	2302.5	2343.2	2380.4	2402.6	2410.0	2428.5	2450.8	2473.0	2487.9	2491.6
35°	2057.8	2083.8	2109.8	2143.0	2165.2	2165.2	2183.9	2198.6	2217.2	2250.6	2243.1
37.5°	1813.1	1850.1	1868.8	1879.9	1894.6	1909.5	1913.1	1931.8	1954.0	1961.4	1972.5
40°	1583.2	1594.4	1605.5	1605.5	1620.2	1620.2	1620.2	1624.0	1646.2	1649.9	1664.8
42.5°	1353.4	1353.4	1342.2	1331.1	1334.8	1331.1	1312.5	1312.5	1323.6	1338.5	1338.5
45°	1138.2	1112.4	1079.0	1053.0	1034.5	1027.0	1004.8	1004.8	1001.1	1004.8	1019.6
47.5°	956.6	912.1	856.5	804.6	786.0	771.2	737.9	723.0	715.6	719.2	726.8
50°	804.6	756.4	693.4	630.2	597.0	578.4	537.6	511.6	508.0	500.5	515.4
52.5°	693.4	634.0	567.2	493.1	459.8	430.1	385.6	363.4	348.5	348.5	352.2
55°	597.0	533.9	459.8	385.6	352.2	330.0	285.5	255.9	241.0	237.2	248.4
57.5°	515.4	456.0	381.9	307.8	274.4	248.4	203.9	178.0	166.9	159.4	163.1
60°	452.4	393.0	318.9	248.4	218.8	189.1	152.0	122.4	107.5	107.5	111.2
62.5°	393.0	337.4	270.6	203.9	178.0	152.0	111.2	85.2	74.1	70.5	74.1
65°	333.8	281.8	226.1	170.5	144.6	122.4	89.0	66.8	51.9	48.2	51.9
67.5°	270.6	229.9	181.6	137.1	115.0	96.4	66.8	48.2	37.1	33.4	37.1
70°	211.4	174.2	137.1	100.1	85.2	70.5	48.2	37.1	26.0	22.2	26.0
72.5°	152.0	126.0	96.4	70.5	59.4	48.2	33.4	26.0	18.5	14.9	18.5
75°	103.9	85.2	63.0	44.5	37.1	33.4	22.2	14.9	11.1	11.1	11.1
77.5°	66.8	51.9	40.8	29.6	22.2	18.5	11.1	7.4	7.4	7.4	7.4
80°	37.1	29.6	22.2	14.9	11.1	11.1	7.4	7.4	3.8	3.8	3.8
82.5°	22.2	14.9	11.1	7.4	7.4	3.8	3.8	3.8	3.8	3.8	3.8
85°	11.1	7.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	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°	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1
2.5°	3199.8	3203.5	3192.4	3207.1	3196.0	3210.9	3210.9	3196.0	3199.8	3192.4	3207.1
5°	3192.4	3192.4	3184.9	3196.0	3181.2	3196.0	3192.4	3166.4	3173.8	3159.0	3173.8
7.5°	3192.4	3184.9	3173.8	3184.9	3166.4	3177.5	3162.6	3136.8	3129.4	3110.8	3110.8
10°	3203.5	3192.4	3177.5	3181.2	3162.6	3166.4	3144.1	3107.1	3096.0	3073.8	3066.2
12.5°	3229.4	3218.2	3196.0	3203.5	3177.5	3177.5	3147.9	3103.4	3081.1	3051.5	3044.0
15°	3266.5	3248.0	3222.0	3225.8	3199.8	3184.9	3147.9	3096.0	3066.2	3025.5	3014.4
17.5°	3273.9	3255.4	3222.0	3222.0	3188.6	3170.1	3125.6	3066.2	3029.2	2988.4	2966.1
20°	3233.1	3214.6	3177.5	3173.8	3144.1	3118.2	3070.0	3010.6	2973.6	2929.1	2910.5
22.5°	3147.9	3125.6	3092.2	3088.5	3058.9	3044.0	2992.1	2932.8	2895.8	2851.2	2836.4
25°	3021.8	3010.6	2977.2	2973.6	2947.6	2929.1	2884.6	2829.0	2795.6	2751.1	2736.2
27.5°	2873.5	2862.4	2829.0	2829.0	2799.4	2788.2	2747.4	2695.5	2669.5	2628.8	2610.2
30°	2695.5	2680.6	2662.1	2658.4	2632.5	2621.4	2584.2	2536.1	2510.1	2476.8	2469.4
32.5°	2484.1	2473.0	2461.9	2458.2	2432.2	2421.1	2395.1	2347.0	2324.8	2295.1	2284.0
35°	2239.5	2232.0	2220.9	2217.2	2206.1	2195.0	2169.0	2132.0	2120.9	2098.6	2087.5
37.5°	1957.6	1965.1	1957.6	1957.6	1946.5	1950.2	1928.0	1905.8	1894.6	1879.9	1872.4
40°	1653.6	1668.5	1679.6	1679.6	1675.9	1690.8	1687.0	1668.5	1664.8	1657.4	1653.6
42.5°	1345.9	1353.4	1375.6	1390.4	1386.6	1423.8	1427.5	1442.2	1453.4	1446.0	1449.8
45°	1023.4	1045.6	1075.2	1090.1	1108.6	1156.8	1182.8	1212.4	1238.4	1253.2	1249.5
47.5°	737.9	763.8	797.1	819.4	852.8	912.1	978.9	1015.9	1053.0	1071.5	1090.1
50°	533.9	559.9	600.6	634.0	656.2	737.9	808.2	856.5	897.2	923.2	941.8
52.5°	374.5	404.1	448.6	478.2	511.6	589.5	671.1	726.8	771.2	804.6	823.1
55°	259.5	292.9	333.8	363.4	400.4	482.0	559.9	619.2	667.4	697.0	719.2
57.5°	181.6	211.4	252.1	278.1	315.1	393.0	470.9	530.2	578.4	608.1	634.0
60°	122.4	152.0	192.8	218.8	248.4	326.2	396.8	459.8	504.2	533.9	559.9
62.5°	85.2	111.2	152.0	178.0	203.9	270.6	337.4	393.0	437.5	470.9	493.1
65°	66.8	89.0	122.4	144.6	170.5	226.1	281.8	330.0	374.5	407.9	422.6
67.5°	48.2	70.5	96.4	115.0	133.5	181.6	229.9	267.0	307.8	333.8	352.2
70°	33.4	48.2	70.5	85.2	100.1	137.1	174.2	207.6	237.2	255.9	270.6
72.5°	26.0	33.4	48.2	59.4	70.5	96.4	126.0	152.0	174.2	189.1	203.9
75°	14.9	22.2	33.4	40.8	48.2	66.8	85.2	103.9	118.6	129.8	137.1
77.5°	7.4	11.1	18.5	22.2	29.6	40.8	55.6	66.8	77.9	85.2	92.8
80°	7.4	7.4	11.1	11.1	14.9	22.2	29.6	37.1	44.5	51.9	55.6
82.5°	3.8	3.8	7.4	7.4	7.4	11.1	14.9	22.2	26.0	29.6	33.4
85°	3.8	3.8	3.8	3.8	3.8	7.4	7.4	11.1	14.9	18.5	18.5
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	7.4	7.4	7.4	11.1
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: P252634

CATALOG NUMBER: LE\_6B60D010R EC6B60709730 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1	3207.1
2.5°	3196.0	3203.5	3199.8	3207.1	3196.0	3192.4	3199.8	3188.6
5°	3155.2	3159.0	3155.2	3155.2	3147.9	3140.5	3147.9	3136.8
7.5°	3092.2	3092.2	3081.1	3081.1	3066.2	3058.9	3058.9	3055.1
10°	3040.4	3029.2	3018.1	3021.8	2999.5	2992.1	2988.4	2984.8
12.5°	3014.4	3007.0	2988.4	2988.4	2966.1	2958.8	2955.0	2951.4
15°	2984.8	2969.9	2955.0	2951.4	2932.8	2925.4	2921.6	2914.2
17.5°	2932.8	2921.6	2903.1	2903.1	2884.6	2880.9	2873.5	2869.8
20°	2877.2	2862.4	2847.5	2847.5	2825.2	2825.2	2814.1	2817.9
22.5°	2799.4	2788.2	2773.4	2773.4	2754.9	2751.1	2740.0	2736.2
25°	2706.6	2691.8	2680.6	2677.0	2662.1	2654.8	2651.0	2643.6
27.5°	2584.2	2573.1	2562.0	2554.6	2536.1	2532.4	2521.2	2525.0
30°	2432.2	2424.9	2421.1	2413.8	2391.5	2384.1	2384.1	2373.0
32.5°	2265.4	2254.2	2246.9	2235.8	2217.2	2213.5	2202.4	2206.1
35°	2061.5	2046.6	2035.5	2039.2	2017.0	2013.2	2005.9	2009.6
37.5°	1850.1	1835.4	1820.5	1816.8	1798.2	1798.2	1787.1	1787.1
40°	1631.4	1616.6	1609.1	1609.1	1586.9	1590.6	1579.5	1575.8
42.5°	1434.9	1420.0	1416.4	1412.6	1401.5	1397.8	1386.6	1390.4
45°	1249.5	1245.8	1245.8	1238.4	1227.2	1223.5	1227.2	1227.2
47.5°	1086.4	1090.1	1086.4	1086.4	1079.0	1086.4	1079.0	1082.6
50°	949.1	956.6	956.6	956.6	952.9	956.6	956.6	960.2
52.5°	834.2	845.4	841.6	845.4	841.6	849.1	845.4	849.1
55°	734.1	741.5	745.2	749.0	749.0	749.0	749.0	749.0
57.5°	641.4	652.5	656.2	660.0	660.0	667.4	660.0	660.0
60°	567.2	578.4	582.1	585.9	585.9	589.5	582.1	585.9
62.5°	500.5	511.6	511.6	515.4	515.4	515.4	508.0	511.6
65°	433.8	437.5	441.2	441.2	437.5	437.5	433.8	437.5
67.5°	359.6	363.4	359.6	359.6	356.0	356.0	348.5	352.2
70°	278.1	278.1	281.8	278.1	274.4	278.1	274.4	270.6
72.5°	207.6	207.6	207.6	203.9	203.9	200.2	203.9	203.9
75°	140.9	140.9	144.6	144.6	144.6	144.6	140.9	140.9
77.5°	92.8	92.8	92.8	92.8	96.4	92.8	92.8	92.8
80°	59.4	59.4	63.0	63.0	59.4	59.4	59.4	59.4
82.5°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
85°	22.2	22.2	22.2	22.2	18.5	18.5	18.5	18.5
87.5°	11.1	11.1	11.1	11.1	11.1	11.1	7.4	7.4
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)