

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: P252518

Luminaire Tested: **LE\_6B60D010R EC6B60708027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60708027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6062.5 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

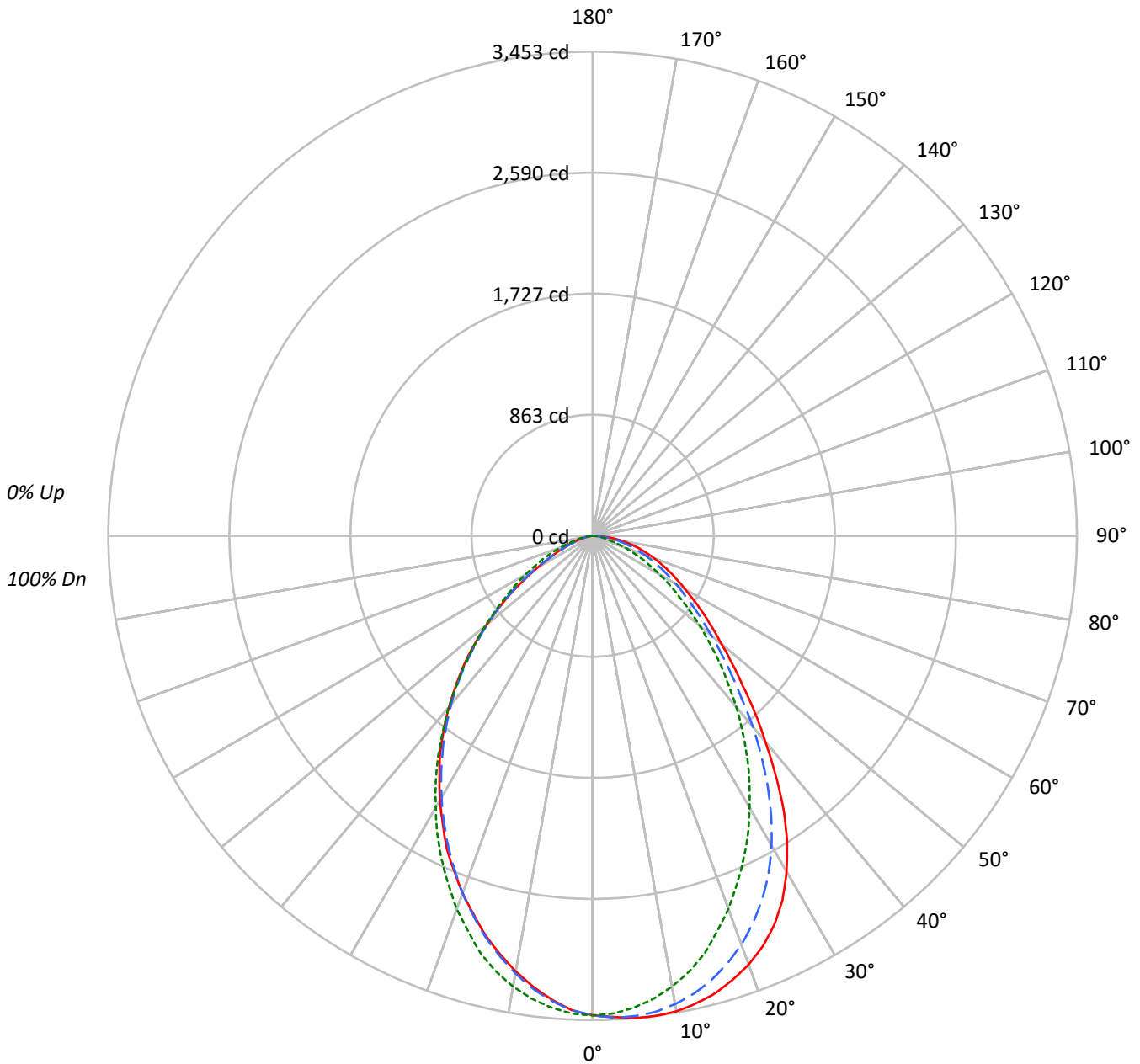
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

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

	0°	90°	180°
0°	223129	223129	223129
5°	226163	221185	217452
10°	228148	216191	208950
15°	228117	208225	199242
20°	225911	196557	188315
25°	220555	183281	177126
30°	208267	168551	163895
35°	188788	152845	150957
40°	163041	135933	135533
45°	139817	118329	119205
50°	121491	101243	99791
55°	109137	85365	79962
60°	99166	71895	58873
65°	93117	59403	43255
70°	88795	46200	31703
75°	84998	33525	21552
80°	80326	23219	14277
85°	71112	14222	7111



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.9	5.3
10°-20°	876.2	14.5
20°-30°	1216.5	20.1
30°-40°	1260.0	20.8
40°-50°	1035.4	17.1
50°-60°	711.6	11.7
60°-70°	409.1	6.7
70°-80°	188.1	3.1
80°-90°	45.8	0.8
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°	2412.6	39.8
0°-40°	3672.6	60.6
0°-60°	5419.6	89.4
0°-90°	6062.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6062.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3420	3420	3420	3420	3420	
5°	3453	3439	3377	3330	3320	329
15°	3377	3278	3083	2959	2950	951
25°	3064	2860	2546	2437	2461	1402
35°	2370	2176	1919	1862	1895	1470
45°	1515	1401	1282	1268	1292	1180
55°	960	869	750	708	703	863
65°	603	527	385	271	280	600
75°	337	266	133	86	86	356
85°	95	66	19	10	10	107
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°	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1
2.5°	3434.4	3462.9	3443.9	3439.1	3448.6	3448.6	3448.6	3434.4	3443.9	3429.6	3439.1
5°	3453.4	3477.1	3458.1	3448.6	3458.1	3462.9	3448.6	3439.1	3453.4	3434.4	3439.1
7.5°	3453.4	3477.1	3458.1	3453.4	3458.1	3458.1	3453.4	3434.4	3443.9	3424.9	3424.9
10°	3443.9	3462.9	3443.9	3434.4	3439.1	3434.4	3434.4	3410.6	3415.4	3391.6	3391.6
12.5°	3415.4	3439.1	3415.4	3405.9	3405.9	3405.9	3391.6	3372.6	3377.4	3348.9	3344.1
15°	3377.4	3396.4	3372.6	3363.1	3363.1	3358.4	3348.9	3320.4	3320.4	3291.9	3277.6
17.5°	3320.4	3339.4	3320.4	3306.1	3301.4	3291.9	3282.4	3253.9	3244.4	3211.1	3196.9
20°	3253.9	3268.1	3249.1	3234.9	3225.4	3215.9	3196.9	3168.4	3158.9	3125.6	3101.9
22.5°	3168.4	3187.4	3158.9	3144.6	3135.1	3120.9	3101.9	3073.4	3059.1	3016.4	2987.9
25°	3063.9	3073.4	3049.6	3035.4	3016.4	3006.9	2992.6	2954.6	2940.4	2892.9	2859.6
27.5°	2930.9	2940.4	2911.9	2902.4	2878.6	2869.1	2850.1	2816.9	2797.9	2750.4	2717.1
30°	2764.6	2774.1	2755.1	2740.9	2721.9	2702.9	2688.6	2655.4	2626.9	2579.4	2550.9
32.5°	2579.4	2593.6	2574.6	2555.6	2522.4	2527.1	2503.4	2470.1	2446.4	2403.6	2370.4
35°	2370.4	2379.9	2356.1	2351.4	2332.4	2313.4	2289.6	2265.9	2251.6	2204.1	2175.6
37.5°	2137.6	2161.4	2137.6	2118.6	2109.1	2094.9	2080.6	2047.4	2037.9	2009.4	1971.4
40°	1914.4	1928.6	1914.4	1895.4	1881.1	1881.1	1862.1	1843.1	1819.4	1790.9	1776.6
42.5°	1714.9	1705.4	1700.6	1691.1	1672.1	1667.4	1662.6	1638.9	1624.6	1596.1	1572.4
45°	1515.4	1520.1	1510.6	1505.9	1491.6	1482.1	1472.6	1453.6	1448.9	1420.2	1401.2
47.5°	1349.0	1344.2	1334.8	1334.8	1325.2	1315.8	1306.2	1292.0	1287.2	1263.5	1244.5
50°	1197.0	1201.8	1197.0	1192.2	1178.0	1173.2	1163.8	1154.2	1144.8	1121.0	1102.0
52.5°	1073.5	1068.8	1064.0	1064.0	1049.8	1045.0	1035.5	1026.0	1016.5	992.8	978.5
55°	959.5	959.5	954.8	950.0	935.8	931.0	926.2	916.8	902.5	883.5	869.2
57.5°	855.0	855.0	850.2	845.5	836.0	836.0	826.5	817.0	807.5	788.5	769.5
60°	760.0	764.8	760.0	755.2	745.8	745.8	741.0	726.8	722.0	698.2	684.0
62.5°	679.2	679.2	679.2	674.5	669.8	660.2	660.2	646.0	636.5	622.2	603.2
65°	603.2	603.2	603.2	598.5	589.0	584.2	579.5	570.0	560.5	546.2	527.2
67.5°	532.0	532.0	532.0	527.2	517.8	513.0	508.2	503.5	489.2	475.0	456.0
70°	465.5	465.5	460.8	456.0	451.2	446.5	441.8	432.2	422.8	403.8	389.5
72.5°	399.0	399.0	399.0	389.5	384.8	384.8	375.2	370.5	361.0	342.0	327.8
75°	337.2	332.5	332.5	327.8	323.0	318.2	313.5	308.8	294.5	285.0	266.0
77.5°	275.5	275.5	270.8	266.0	266.0	261.2	256.5	247.0	242.2	228.0	213.8
80°	213.8	213.8	213.8	213.8	209.0	204.2	204.2	194.8	190.0	175.8	166.2
82.5°	161.5	156.8	156.8	156.8	152.0	147.2	147.2	142.5	137.8	128.2	118.8
85°	95.0	90.2	90.2	90.2	85.5	85.5	80.8	80.8	76.0	66.5	66.5
87.5°	28.5	28.5	33.2	33.2	28.5	28.5	28.5	28.5	28.5	23.8	23.8
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°	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1
2.5°	3429.6	3443.9	3424.9	3420.1	3439.1	3429.6	3424.9	3415.4	3420.1	3410.6	3396.4
5°	3424.9	3443.9	3420.1	3405.9	3429.6	3415.4	3405.9	3396.4	3396.4	3377.4	3367.9
7.5°	3410.6	3420.1	3396.4	3382.1	3396.4	3382.1	3372.6	3358.4	3353.6	3329.9	3315.6
10°	3372.6	3382.1	3353.6	3334.6	3348.9	3329.9	3315.6	3301.4	3291.9	3263.4	3244.4
12.5°	3320.4	3325.1	3291.9	3268.1	3277.6	3263.4	3239.6	3220.6	3211.1	3182.6	3158.9
15°	3249.1	3253.9	3215.9	3182.6	3192.1	3173.1	3144.6	3125.6	3111.4	3082.9	3049.6
17.5°	3163.6	3158.9	3116.1	3082.9	3087.6	3063.9	3035.4	3006.9	2987.9	2954.6	2930.9
20°	3068.6	3054.4	3006.9	2968.9	2973.6	2945.1	2911.9	2883.4	2859.6	2831.1	2797.9
22.5°	2949.9	2930.9	2888.1	2840.6	2845.4	2821.6	2774.1	2750.4	2726.6	2688.6	2660.1
25°	2821.6	2793.1	2750.4	2702.9	2702.9	2674.4	2636.4	2607.9	2584.1	2546.1	2512.9
27.5°	2669.6	2655.4	2598.4	2560.4	2555.6	2527.1	2493.9	2460.6	2432.1	2398.9	2365.6
30°	2503.4	2479.6	2436.9	2394.1	2384.6	2360.9	2327.6	2289.6	2270.6	2237.4	2208.9
32.5°	2327.6	2303.9	2256.4	2213.6	2208.9	2189.9	2161.4	2123.4	2104.4	2080.6	2061.6
35°	2128.1	2118.6	2071.1	2037.9	2037.9	2018.9	1990.4	1957.1	1942.9	1919.1	1895.4
37.5°	1938.1	1923.9	1881.1	1852.6	1852.6	1828.9	1800.4	1786.1	1771.9	1752.9	1738.6
40°	1738.6	1729.1	1695.9	1667.4	1672.1	1653.1	1634.1	1615.1	1605.6	1596.1	1581.9
42.5°	1553.4	1543.9	1520.1	1496.4	1496.4	1482.1	1463.1	1448.9	1439.2	1425.0	1420.2
45°	1387.0	1372.8	1353.8	1330.0	1330.0	1315.8	1306.2	1296.8	1292.0	1282.5	1268.2
47.5°	1225.5	1216.0	1197.0	1173.2	1173.2	1173.2	1154.2	1140.0	1140.0	1130.5	1125.8
50°	1087.8	1073.5	1059.2	1040.2	1040.2	1030.8	1016.5	1002.2	1002.2	997.5	988.0
52.5°	959.5	950.0	931.0	912.0	912.0	902.5	888.2	883.5	878.8	864.5	859.8
55°	850.2	840.8	826.5	802.8	798.0	793.2	779.0	769.5	764.8	750.5	750.5
57.5°	750.5	741.0	717.2	703.0	698.2	688.8	674.5	665.0	660.2	650.8	641.2
60°	665.0	650.8	631.8	612.8	608.0	598.5	584.2	574.8	570.0	551.0	541.5
62.5°	584.2	570.0	551.0	532.0	527.2	517.8	498.8	489.2	479.8	460.8	451.2
65°	508.2	494.0	475.0	456.0	446.5	441.8	422.8	408.5	399.0	384.8	365.8
67.5°	437.0	422.8	403.8	380.0	380.0	365.8	351.5	337.2	323.0	308.8	294.5
70°	370.5	356.2	337.2	318.2	313.5	304.0	289.8	270.8	261.2	242.2	228.0
72.5°	308.8	294.5	275.5	256.5	251.8	242.2	228.0	209.0	194.8	180.5	166.2
75°	251.8	237.5	218.5	204.2	199.5	190.0	175.8	156.8	142.5	133.0	118.8
77.5°	199.5	185.2	171.0	156.8	152.0	142.5	128.2	118.8	104.5	95.0	80.8
80°	152.0	142.5	128.2	118.8	114.0	104.5	95.0	80.8	71.2	61.8	57.0
82.5°	109.2	99.8	90.2	76.0	76.0	66.5	61.8	52.2	42.8	38.0	33.2
85°	61.8	52.2	47.5	42.8	38.0	38.0	33.2	28.5	23.8	19.0	19.0
87.5°	19.0	19.0	14.2	14.2	14.2	14.2	9.5	9.5	9.5	9.5	9.5
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°	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1
2.5°	3396.4	3401.1	3391.6	3401.1	3391.6	3396.4	3386.9	3396.4	3386.9	3396.4	3377.4
5°	3363.1	3363.1	3348.9	3358.4	3348.9	3353.6	3334.6	3339.4	3329.9	3339.4	3320.4
7.5°	3306.1	3310.9	3287.1	3296.6	3282.4	3282.4	3268.1	3272.9	3258.6	3263.4	3249.1
10°	3239.6	3234.9	3211.1	3220.6	3201.6	3201.6	3187.4	3187.4	3168.4	3173.1	3154.1
12.5°	3144.6	3139.9	3111.4	3120.9	3101.9	3101.9	3087.6	3087.6	3068.6	3078.1	3059.1
15°	3035.4	3030.6	3002.1	3006.9	2987.9	2987.9	2968.9	2973.6	2959.4	2968.9	2949.9
17.5°	2911.9	2907.1	2878.6	2883.4	2859.6	2864.4	2850.1	2845.4	2835.9	2840.6	2826.4
20°	2783.6	2774.1	2745.6	2750.4	2740.9	2726.6	2717.1	2721.9	2712.4	2721.9	2707.6
22.5°	2650.6	2631.6	2607.9	2607.9	2598.4	2598.4	2584.1	2593.6	2574.6	2588.9	2579.4
25°	2498.6	2484.4	2465.4	2474.9	2455.9	2455.9	2441.6	2446.4	2436.9	2446.4	2436.9
27.5°	2351.4	2341.9	2313.4	2322.9	2308.6	2313.4	2299.1	2303.9	2299.1	2308.6	2299.1
30°	2194.6	2189.9	2170.9	2170.9	2166.1	2161.4	2156.6	2156.6	2151.9	2166.1	2156.6
32.5°	2047.4	2033.1	2014.1	2028.4	2004.6	2018.9	2009.4	2018.9	2009.4	2018.9	2014.1
35°	1895.4	1890.6	1866.9	1871.6	1866.9	1866.9	1862.1	1862.1	1862.1	1876.4	1876.4
37.5°	1733.9	1729.1	1714.9	1719.6	1710.1	1705.4	1705.4	1714.9	1714.9	1724.4	1724.4
40°	1577.1	1581.9	1567.6	1567.6	1562.9	1562.9	1562.9	1572.4	1567.6	1577.1	1572.4
42.5°	1420.2	1420.2	1406.0	1410.8	1406.0	1410.8	1410.8	1420.2	1420.2	1425.0	1420.2
45°	1273.0	1273.0	1268.2	1273.0	1263.5	1268.2	1263.5	1273.0	1268.2	1273.0	1273.0
47.5°	1125.8	1125.8	1125.8	1121.0	1121.0	1121.0	1121.0	1121.0	1116.2	1125.8	1121.0
50°	988.0	992.8	988.0	988.0	983.2	988.0	983.2	983.2	973.8	978.5	978.5
52.5°	864.5	864.5	855.0	855.0	855.0	850.2	850.2	850.2	845.5	845.5	836.0
55°	745.8	745.8	736.2	736.2	731.5	726.8	722.0	722.0	707.8	707.8	693.5
57.5°	636.5	631.8	617.5	617.5	608.0	603.2	598.5	593.8	584.2	574.8	570.0
60°	536.8	527.2	517.8	513.0	503.5	494.0	484.5	475.0	465.5	460.8	456.0
62.5°	441.8	427.5	418.0	413.2	403.8	389.5	380.0	370.5	361.0	356.2	346.8
65°	356.2	342.0	327.8	323.0	313.5	304.0	289.8	280.2	270.8	266.0	266.0
67.5°	280.2	266.0	247.0	247.0	237.5	228.0	218.5	209.0	204.2	209.0	209.0
70°	209.0	199.5	185.2	180.5	171.0	161.5	156.8	156.8	156.8	161.5	156.8
72.5°	156.8	142.5	133.0	128.2	123.5	118.8	118.8	118.8	114.0	118.8	118.8
75°	109.2	99.8	90.2	90.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5
77.5°	76.0	66.5	61.8	61.8	61.8	57.0	57.0	57.0	57.0	57.0	57.0
80°	47.5	47.5	42.8	42.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0
82.5°	28.5	28.5	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
85°	14.2	14.2	14.2	14.2	14.2	9.5	9.5	9.5	9.5	9.5	9.5
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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: P252518

CATALOG NUMBER: LE\_6B60D010R EC6B60708027 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1	3420.1
2.5°	3377.4	3391.6	3372.6	3386.9	3382.1	3377.4	3367.9	3386.9
5°	3320.4	3325.1	3306.1	3325.1	3320.4	3310.9	3301.4	3320.4
7.5°	3239.6	3253.9	3230.1	3249.1	3244.4	3234.9	3225.4	3244.4
10°	3149.4	3163.6	3144.6	3158.9	3158.9	3149.4	3135.1	3154.1
12.5°	3049.6	3059.1	3040.1	3059.1	3054.4	3044.9	3040.1	3054.4
15°	2940.4	2954.6	2935.6	2949.9	2945.1	2940.4	2935.6	2949.9
17.5°	2821.6	2835.9	2821.6	2835.9	2835.9	2821.6	2816.9	2826.4
20°	2702.9	2712.4	2698.1	2712.4	2707.6	2707.6	2698.1	2712.4
22.5°	2569.9	2584.1	2574.6	2584.1	2579.4	2579.4	2574.6	2584.1
25°	2436.9	2451.1	2436.9	2451.1	2446.4	2446.4	2436.9	2460.6
27.5°	2303.9	2313.4	2299.1	2318.1	2313.4	2303.9	2308.6	2313.4
30°	2161.4	2170.9	2161.4	2175.6	2175.6	2175.6	2166.1	2175.6
32.5°	2018.9	2033.1	2018.9	2033.1	2028.4	2028.4	2023.6	2033.1
35°	1876.4	1881.1	1871.6	1885.9	1885.9	1890.6	1881.1	1895.4
37.5°	1729.1	1733.9	1729.1	1733.9	1743.4	1729.1	1738.6	1743.4
40°	1577.1	1586.6	1581.9	1586.6	1586.6	1591.4	1586.6	1591.4
42.5°	1425.0	1434.5	1425.0	1439.2	1434.5	1434.5	1439.2	1439.2
45°	1268.2	1282.5	1273.0	1282.5	1287.2	1282.5	1282.5	1292.0
47.5°	1121.0	1130.5	1125.8	1130.5	1130.5	1130.5	1130.5	1140.0
50°	973.8	978.5	978.5	983.2	983.2	988.0	978.5	983.2
52.5°	826.5	836.0	836.0	836.0	831.2	836.0	836.0	836.0
55°	693.5	698.2	688.8	698.2	698.2	693.5	693.5	703.0
57.5°	565.2	565.2	565.2	565.2	565.2	560.5	565.2	565.2
60°	446.5	451.2	446.5	446.5	446.5	446.5	441.8	451.2
62.5°	346.8	346.8	342.0	346.8	346.8	346.8	351.5	351.5
65°	270.8	275.5	270.8	275.5	275.5	275.5	275.5	280.2
67.5°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8
70°	161.5	161.5	161.5	166.2	161.5	161.5	161.5	166.2
72.5°	118.8	118.8	118.8	118.8	118.8	118.8	123.5	123.5
75°	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
77.5°	57.0	57.0	57.0	61.8	57.0	61.8	57.0	57.0
80°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
82.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
87.5°	9.5	9.5	9.5	9.5	4.8	4.8	4.8	4.8
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)