

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: P252417

Luminaire Tested: **LE_6B60D010R EC6B60708040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6992.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

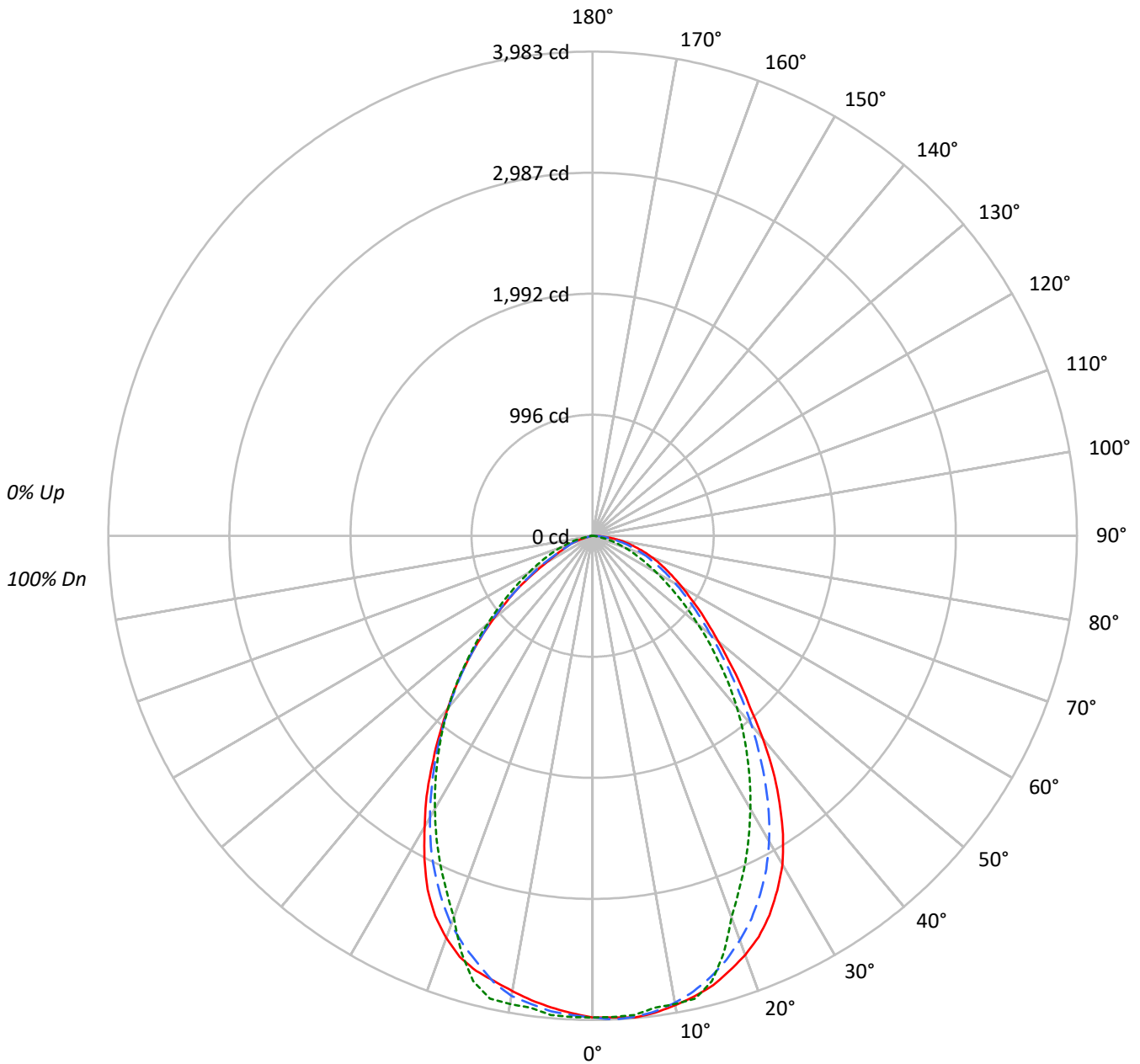
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	258483	258483	258483
5°	260486	259137	255089
10°	259748	259059	251904
15°	258565	256133	250230
20°	254716	231847	244351
25°	247801	213716	231130
30°	235281	195370	208154
35°	213510	176635	183181
40°	185363	157318	157761
45°	158095	135305	133875
50°	136827	114376	108104
55°	122320	95408	83693
60°	111444	79215	56394
65°	104047	65130	42113
70°	99152	53010	35327
75°	93392	37609	11646
80°	88967	19349	3832
85°	73208	11528	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	5.4
10°-20°	1046.4	15.0
20°-30°	1444.4	20.7
30°-40°	1469.8	21.0
40°-50°	1181.3	16.9
50°-60°	785.5	11.2
60°-70°	447.6	6.4
70°-80°	201.0	2.9
80°-90°	42.3	0.6
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°	2865.0	41.0
0°-40°	4334.8	62.0
0°-60°	6301.5	90.1
0°-90°	6992.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6992.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3962	3962	3962	3962	3962	
5°	3978	3972	3957	3926	3895	378
15°	3828	3756	3792	3643	3705	1077
25°	3442	3257	2969	3067	3211	1578
35°	2681	2475	2218	2259	2300	1666
45°	1714	1610	1466	1451	1451	1329
55°	1075	1003	839	746	736	966
65°	674	602	422	273	273	671
75°	370	309	149	62	46	396
85°	98	67	15	5	0	116
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°	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0
2.5°	3967.1	3987.8	3982.6	3977.5	3982.6	3977.5	3967.1	3967.1	3956.9	3956.9	3982.6
5°	3977.5	3987.8	3982.6	3977.5	3977.5	3982.6	3962.0	3962.0	3951.8	3946.6	3972.2
7.5°	3956.9	3972.2	3962.0	3962.0	3956.9	3962.0	3941.4	3941.4	3926.0	3920.9	3946.6
10°	3920.9	3941.4	3931.1	3931.1	3931.1	3920.9	3910.5	3905.4	3890.0	3884.9	3900.2
12.5°	3879.6	3895.1	3890.0	3879.6	3879.6	3879.6	3859.1	3854.0	3833.4	3823.1	3838.5
15°	3828.2	3838.5	3833.4	3828.2	3817.9	3817.9	3797.4	3787.1	3766.5	3745.9	3756.2
17.5°	3751.0	3766.5	3756.2	3751.0	3735.6	3735.6	3715.0	3704.8	3673.9	3653.2	3658.4
20°	3668.8	3673.9	3668.8	3658.4	3643.0	3637.9	3617.2	3596.6	3571.0	3545.2	3540.1
22.5°	3571.0	3576.1	3560.6	3550.4	3534.9	3529.8	3504.0	3488.6	3447.5	3416.6	3411.5
25°	3442.4	3447.5	3447.5	3421.8	3411.5	3401.1	3375.4	3349.8	3313.6	3272.5	3257.1
27.5°	3288.0	3303.4	3293.1	3267.4	3246.8	3241.6	3215.9	3195.4	3149.0	3113.0	3092.4
30°	3123.2	3118.1	3113.0	3097.6	3066.8	3061.5	3035.9	3010.1	2974.1	2927.8	2902.0
32.5°	2912.4	2912.4	2907.2	2891.8	2860.9	2850.6	2830.0	2799.1	2758.0	2722.0	2696.2
35°	2680.8	2685.9	2680.8	2649.9	2629.4	2619.0	2608.8	2572.8	2536.8	2495.5	2475.0
37.5°	2439.0	2423.5	2428.6	2402.9	2377.2	2387.5	2356.6	2341.1	2300.0	2269.1	2248.6
40°	2176.5	2186.9	2166.2	2156.0	2140.5	2125.1	2125.1	2099.4	2078.8	2042.8	2032.5
42.5°	1919.2	1934.8	1929.5	1919.2	1898.6	1903.9	1878.1	1867.8	1842.1	1826.6	1811.2
45°	1713.5	1713.5	1713.5	1703.1	1698.0	1687.8	1672.2	1656.9	1641.4	1620.9	1610.5
47.5°	1512.8	1512.8	1517.9	1507.6	1497.4	1492.1	1481.9	1481.9	1456.1	1435.6	1425.2
50°	1348.1	1348.1	1348.1	1337.9	1327.5	1327.5	1317.2	1307.0	1291.5	1276.1	1265.8
52.5°	1198.9	1198.9	1198.9	1188.6	1183.5	1178.2	1173.1	1168.0	1147.5	1137.1	1126.9
55°	1075.4	1070.2	1070.2	1065.1	1054.9	1054.9	1049.6	1039.4	1024.0	1008.5	1003.4
57.5°	951.9	957.0	951.9	951.9	941.6	941.6	931.4	926.1	910.8	900.5	890.1
60°	854.1	854.1	854.1	849.0	838.8	843.9	833.6	828.4	813.0	797.5	787.2
62.5°	756.4	761.5	761.5	756.4	746.1	746.1	741.0	735.8	720.4	704.9	689.5
65°	674.0	674.0	674.0	668.9	663.8	663.8	658.6	653.5	638.0	617.5	602.0
67.5°	596.9	591.8	591.8	591.8	586.6	581.5	576.2	571.1	555.8	540.2	519.8
70°	519.8	519.8	519.8	514.5	504.2	509.4	504.2	499.1	483.6	468.2	452.8
72.5°	447.6	447.6	442.5	437.4	437.4	432.2	432.2	427.1	411.6	391.0	375.6
75°	370.5	370.5	370.5	370.5	360.1	365.4	355.0	349.9	339.6	324.1	308.8
77.5°	303.6	303.6	303.6	298.4	293.2	293.2	288.1	283.0	267.6	257.2	236.8
80°	236.8	236.8	236.8	236.8	231.5	226.4	221.2	216.1	205.9	190.4	175.0
82.5°	175.0	175.0	169.8	169.8	169.8	164.6	159.5	154.4	144.1	133.8	123.5
85°	97.8	102.9	102.9	92.6	97.8	92.6	92.6	82.4	82.4	72.0	66.9
87.5°	36.0	30.9	30.9	30.9	30.9	30.9	30.9	25.8	25.8	25.8	20.6
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°	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0
2.5°	3962.0	3956.9	3977.5	3977.5	3946.6	3962.0	3967.1	3956.9	3956.9	3962.0	3946.6
5°	3951.8	3941.4	3962.0	3967.1	3936.2	3951.8	3956.9	3946.6	3951.8	3956.9	3936.2
7.5°	3915.8	3915.8	3931.1	3936.2	3905.4	3920.9	3920.9	3910.5	3915.8	3915.8	3900.2
10°	3879.6	3864.2	3879.6	3879.6	3854.0	3859.1	3869.4	3864.2	3884.9	3910.5	3910.5
12.5°	3812.8	3797.4	3823.1	3823.1	3807.6	3828.2	3854.0	3869.4	3890.0	3900.2	3869.4
15°	3730.5	3735.6	3781.9	3817.9	3802.5	3833.4	3859.1	3848.8	3823.1	3792.2	3745.9
17.5°	3622.4	3607.0	3648.1	3668.8	3648.1	3658.4	3679.0	3658.4	3617.2	3591.5	3529.8
20°	3498.9	3457.8	3457.8	3447.5	3411.5	3411.5	3406.2	3370.2	3354.9	3339.4	3313.6
22.5°	3360.0	3313.6	3298.2	3267.4	3236.5	3231.4	3215.9	3179.9	3159.4	3149.0	3118.1
25°	3200.5	3159.4	3133.6	3102.8	3056.4	3046.1	3030.6	2994.6	2984.4	2968.9	2943.2
27.5°	3035.9	2984.4	2948.4	2917.5	2876.4	2871.1	2840.2	2814.6	2794.0	2783.8	2763.1
30°	2845.5	2788.9	2763.1	2722.0	2691.1	2680.8	2655.0	2619.0	2603.6	2593.4	2577.9
32.5°	2634.5	2588.1	2562.5	2526.4	2485.2	2490.4	2459.5	2428.6	2418.4	2408.1	2392.6
35°	2428.6	2382.4	2351.5	2320.6	2294.9	2284.6	2264.0	2238.2	2222.9	2217.8	2207.4
37.5°	2202.2	2166.2	2140.5	2109.6	2089.0	2078.8	2068.5	2042.8	2032.5	2032.5	2011.9
40°	1981.0	1950.1	1929.5	1914.1	1888.4	1883.2	1873.0	1857.5	1852.4	1847.2	1831.8
42.5°	1780.4	1739.1	1723.8	1713.5	1698.0	1687.8	1682.6	1672.2	1667.1	1662.0	1646.5
45°	1590.0	1553.9	1538.5	1528.2	1512.8	1507.6	1502.5	1487.0	1476.8	1466.5	1461.2
47.5°	1404.8	1379.0	1373.9	1348.1	1337.9	1327.5	1317.2	1307.0	1301.8	1296.6	1276.1
50°	1245.2	1229.8	1204.0	1188.6	1178.2	1173.1	1152.6	1137.1	1132.0	1126.9	1111.4
52.5°	1101.1	1080.5	1065.1	1039.4	1034.2	1024.0	1013.6	993.1	982.8	977.6	962.2
55°	972.5	957.0	936.5	915.9	900.5	895.2	879.9	859.2	849.0	838.8	828.4
57.5°	864.5	838.8	818.1	797.5	787.2	771.9	756.4	746.1	730.6	715.2	699.8
60°	761.5	741.0	715.2	694.6	684.4	674.0	653.5	638.0	622.6	607.1	591.8
62.5°	663.8	643.1	617.5	596.9	586.6	576.2	555.8	540.2	524.9	509.4	488.9
65°	576.2	555.8	535.1	514.5	504.2	494.0	473.4	452.8	437.4	421.9	401.4
67.5°	504.2	478.5	458.0	437.4	427.1	416.8	396.2	380.8	360.1	344.8	324.1
70°	427.1	406.5	391.0	370.5	360.1	349.9	329.2	308.8	293.2	277.9	257.2
72.5°	360.1	334.5	319.0	298.4	288.1	283.0	262.4	247.0	231.5	211.0	195.5
75°	288.1	267.6	247.0	231.5	221.2	216.1	195.5	180.1	164.6	149.2	133.8
77.5°	221.2	205.9	185.2	169.8	159.5	154.4	133.8	118.4	102.9	92.6	77.1
80°	164.6	144.1	133.8	118.4	113.2	102.9	92.6	77.1	66.9	51.5	41.1
82.5°	113.2	97.8	87.5	77.1	72.0	66.9	56.6	46.2	36.0	30.9	25.8
85°	61.8	51.5	46.2	41.1	36.0	36.0	30.9	25.8	20.6	15.4	10.2
87.5°	20.6	15.4	15.4	15.4	15.4	10.2	10.2	10.2	5.1	5.1	5.1
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°	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0
2.5°	3956.9	3956.9	3956.9	3951.8	3951.8	3951.8	3946.6	3967.1	3946.6	3941.4	3956.9
5°	3951.8	3941.4	3941.4	3941.4	3941.4	3936.2	3931.1	3941.4	3926.0	3920.9	3920.9
7.5°	3920.9	3915.8	3915.8	3910.5	3905.4	3900.2	3895.1	3900.2	3884.9	3879.6	3879.6
10°	3926.0	3915.8	3915.8	3900.2	3890.0	3874.5	3859.1	3864.2	3843.6	3828.2	3828.2
12.5°	3864.2	3838.5	3823.1	3807.6	3797.4	3792.2	3771.6	3781.9	3761.4	3756.2	3756.2
15°	3725.4	3694.5	3668.8	3658.4	3658.4	3648.1	3632.8	3653.2	3643.0	3648.1	3673.9
17.5°	3509.2	3493.8	3478.4	3473.2	3478.4	3488.6	3498.9	3529.8	3529.8	3545.2	3571.0
20°	3318.9	3308.5	3318.9	3318.9	3324.0	3344.5	3365.1	3390.9	3401.1	3416.6	3452.6
22.5°	3133.6	3133.6	3143.9	3159.4	3154.1	3190.2	3195.4	3241.6	3241.6	3272.5	3303.4
25°	2953.5	2953.5	2963.8	2968.9	2979.2	2999.8	3020.4	3056.4	3066.8	3097.6	3123.2
27.5°	2778.5	2773.4	2773.4	2778.5	2788.9	2814.6	2824.9	2866.0	2881.5	2902.0	2927.8
30°	2583.0	2577.9	2588.1	2598.5	2593.4	2619.0	2634.5	2665.4	2675.6	2696.2	2716.8
32.5°	2397.8	2397.8	2397.8	2408.1	2408.1	2428.6	2428.6	2464.6	2464.6	2480.1	2500.8
35°	2207.4	2207.4	2212.5	2217.8	2222.9	2228.0	2233.1	2253.8	2258.9	2264.0	2274.2
37.5°	2027.4	2022.1	2027.4	2027.4	2017.0	2037.6	2037.6	2058.1	2042.8	2058.1	2063.4
40°	1842.1	1842.1	1836.9	1836.9	1836.9	1847.2	1836.9	1852.4	1842.1	1852.4	1847.2
42.5°	1651.8	1651.8	1641.4	1651.8	1646.5	1646.5	1646.5	1656.9	1641.4	1651.8	1656.9
45°	1461.2	1456.1	1456.1	1451.0	1451.0	1451.0	1456.1	1456.1	1451.0	1461.2	1461.2
47.5°	1276.1	1270.9	1270.9	1270.9	1270.9	1276.1	1260.6	1270.9	1260.6	1260.6	1260.6
50°	1116.6	1111.4	1106.2	1101.1	1096.0	1096.0	1090.9	1090.9	1080.5	1075.4	1070.2
52.5°	962.2	957.0	946.8	946.8	941.6	936.5	921.0	921.0	905.6	900.5	900.5
55°	823.2	807.9	802.8	792.4	792.4	782.1	771.9	761.5	746.1	735.8	735.8
57.5°	694.6	679.2	668.9	663.8	658.6	648.4	627.8	622.6	602.0	596.9	591.8
60°	581.5	566.0	550.6	540.2	535.1	519.8	499.1	488.9	478.5	463.1	447.6
62.5°	473.4	458.0	437.4	432.2	421.9	406.5	391.0	375.6	365.4	349.9	339.6
65°	380.8	365.4	349.9	339.6	329.2	313.9	298.4	283.0	272.8	267.6	262.4
67.5°	308.8	288.1	272.8	267.6	257.2	247.0	231.5	226.4	216.1	216.1	216.1
70°	241.9	226.4	211.0	205.9	200.6	190.4	180.1	180.1	180.1	180.1	180.1
72.5°	180.1	169.8	154.4	149.2	144.1	138.9	128.6	133.8	128.6	128.6	128.6
75°	113.2	102.9	92.6	87.5	82.4	77.1	72.0	66.9	61.8	56.6	56.6
77.5°	61.8	51.5	46.2	41.1	41.1	36.0	30.9	30.9	25.8	25.8	25.8
80°	36.0	30.9	25.8	20.6	20.6	15.4	15.4	15.4	15.4	10.2	10.2
82.5°	20.6	15.4	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	5.1
85°	10.2	10.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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: P252417

CATALOG NUMBER: LE_6B60D010R EC6B60708040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0	3962.0
2.5°	3931.1	3946.6	3931.1	3946.6	3946.6	3946.6	3946.6	3931.1
5°	3905.4	3915.8	3900.2	3910.5	3915.8	3910.5	3910.5	3895.1
7.5°	3859.1	3869.4	3854.0	3869.4	3874.5	3869.4	3864.2	3854.0
10°	3812.8	3817.9	3802.5	3812.8	3823.1	3823.1	3817.9	3802.5
12.5°	3740.8	3756.2	3740.8	3751.0	3761.4	3766.5	3766.5	3751.0
15°	3658.4	3684.1	3673.9	3689.2	3704.8	3709.9	3709.9	3704.8
17.5°	3576.1	3601.9	3586.4	3612.1	3627.5	3637.9	3643.0	3632.8
20°	3457.8	3488.6	3478.4	3498.9	3519.5	3534.9	3534.9	3519.5
22.5°	3303.4	3344.5	3339.4	3354.9	3380.6	3385.8	3396.0	3385.8
25°	3133.6	3164.5	3159.4	3174.8	3205.6	3205.6	3210.8	3210.8
27.5°	2938.0	2968.9	2963.8	2974.1	2994.6	2999.8	3005.0	2994.6
30°	2727.1	2742.5	2742.5	2758.0	2773.4	2778.5	2778.5	2763.1
32.5°	2495.5	2516.1	2526.4	2521.2	2536.8	2547.0	2541.9	2541.9
35°	2284.6	2289.8	2294.9	2300.0	2305.1	2315.5	2305.1	2300.0
37.5°	2058.1	2073.6	2063.4	2073.6	2083.9	2078.8	2073.6	2073.6
40°	1852.4	1857.5	1847.2	1857.5	1862.6	1862.6	1862.6	1852.4
42.5°	1646.5	1656.9	1646.5	1656.9	1656.9	1656.9	1656.9	1651.8
45°	1440.8	1451.0	1451.0	1456.1	1456.1	1451.0	1451.0	1451.0
47.5°	1250.4	1260.6	1250.4	1260.6	1265.8	1255.5	1255.5	1255.5
50°	1070.2	1065.1	1065.1	1070.2	1070.2	1070.2	1070.2	1065.1
52.5°	885.0	890.1	890.1	890.1	895.2	890.1	895.2	895.2
55°	725.5	725.5	725.5	730.6	725.5	725.5	730.6	735.8
57.5°	581.5	576.2	571.1	571.1	576.2	571.1	571.1	571.1
60°	447.6	442.5	437.4	437.4	437.4	437.4	437.4	432.2
62.5°	334.5	334.5	334.5	339.6	339.6	339.6	339.6	344.8
65°	267.6	267.6	267.6	267.6	267.6	267.6	267.6	272.8
67.5°	216.1	216.1	216.1	221.2	221.2	221.2	221.2	221.2
70°	180.1	180.1	185.2	180.1	185.2	185.2	185.2	185.2
72.5°	123.5	123.5	123.5	123.5	123.5	118.4	123.5	118.4
75°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	46.2
77.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
80°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	0.0	0.0	0.0
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)