

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: P252612

Luminaire Tested: **LE_6B50D010R EC6B30508040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252612
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_6B50D010R EC6B30508040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 6898.8 lumens
Efficiency: N/A
Efficacy: 117.3 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

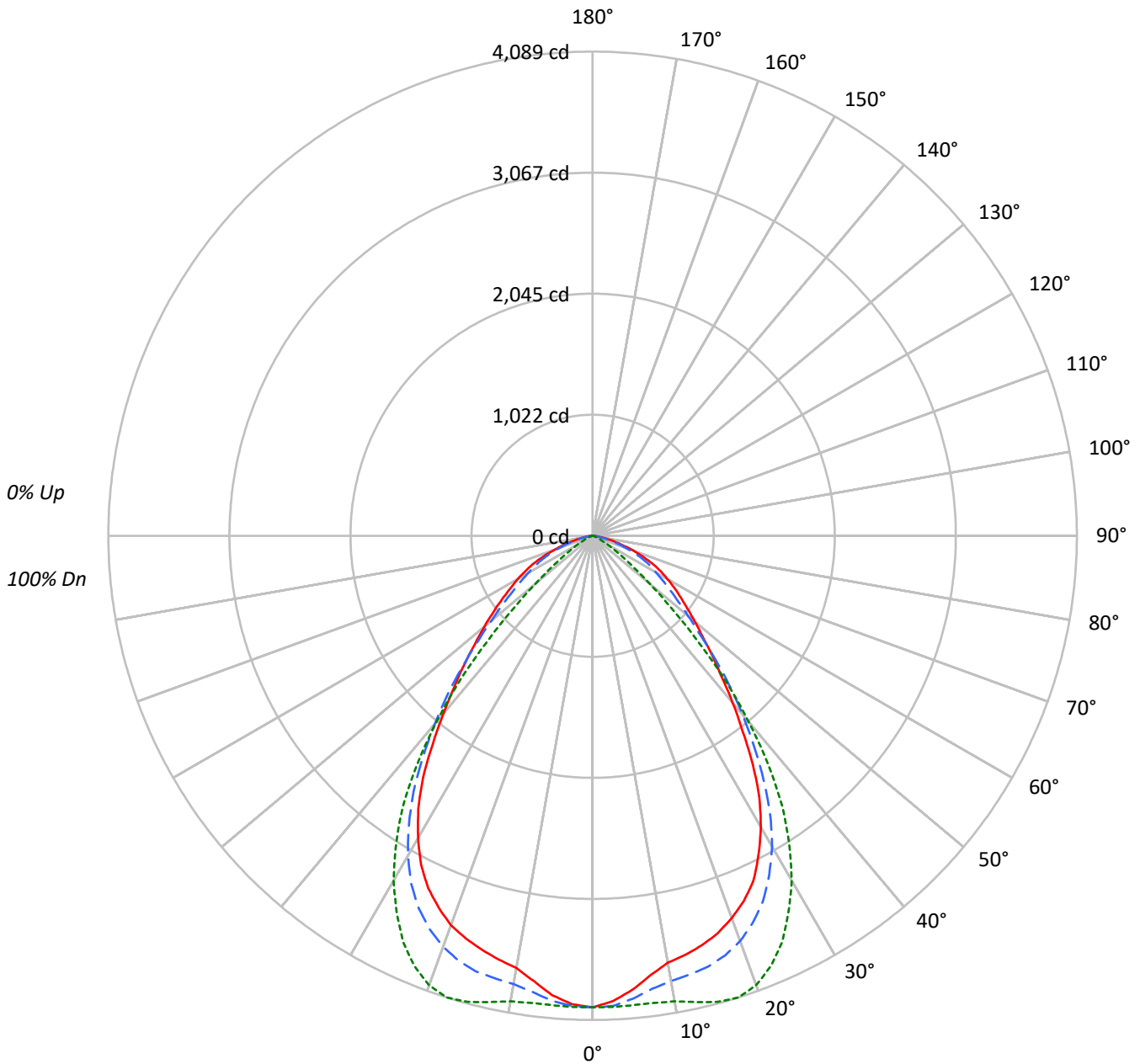
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	259853	259853	259853
5°	252103	260545	255116
10°	242504	264472	245565
15°	241652	275241	244448
20°	238484	280363	242962
25°	231360	272463	236334
30°	214022	253226	222007
35°	187769	222605	198776
40°	156466	174504	166669
45°	131698	115136	140620
50°	114031	63090	121045
55°	103177	33532	105793
60°	94925	17419	94925
65°	86001	9247	83886
70°	69395	5265	64111
75°	47591	3504	44112
80°	31146	1728	27652
85°	20660	3443	17217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	5.4
10°-20°	1074.0	15.6
20°-30°	1586.8	23.0
30°-40°	1602.8	23.2
40°-50°	1104.7	16.0
50°-60°	634.5	9.2
60°-70°	369.3	5.4
70°-80°	134.7	2.0
80°-90°	20.6	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°	3032.2	44.0
0°-40°	4634.9	67.2
0°-60°	6374.1	92.4
0°-90°	6898.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6898.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3983	3983	3983	3983	3983	
5°	3850	3923	3978	3942	3896	361
15°	3578	3767	4075	3808	3619	1008
25°	3214	3403	3785	3472	3283	1464
35°	2358	2519	2795	2634	2496	1463
45°	1427	1446	1248	1538	1524	1110
55°	907	797	295	829	930	817
65°	557	470	60	465	543	546
75°	189	152	14	147	175	213
85°	28	14	5	18	23	35
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°	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0
2.5°	3932.4	3937.0	3941.5	3937.0	3941.5	3960.0	3946.1	3955.4	3955.4	3960.0	3973.8
5°	3849.5	3849.5	3858.6	3854.1	3867.9	3886.2	3872.5	3886.2	3890.9	3900.1	3923.1
7.5°	3743.5	3743.5	3748.1	3748.1	3766.6	3785.0	3775.8	3794.2	3812.6	3831.0	3858.6
10°	3660.6	3669.9	3669.9	3674.5	3692.9	3715.9	3711.4	3734.4	3752.8	3780.4	3817.2
12.5°	3623.9	3628.4	3628.4	3637.6	3656.1	3679.1	3674.5	3697.5	3725.1	3757.4	3794.2
15°	3577.8	3587.0	3582.4	3591.6	3610.0	3633.0	3628.4	3651.5	3683.8	3715.9	3766.6
17.5°	3517.9	3522.5	3527.1	3527.1	3545.5	3564.0	3564.0	3587.0	3623.9	3660.6	3715.9
20°	3435.0	3444.2	3444.2	3448.9	3462.6	3490.2	3485.8	3508.8	3545.5	3582.4	3642.2
22.5°	3338.4	3343.0	3343.0	3347.5	3370.6	3384.4	3389.0	3407.4	3439.6	3481.1	3536.4
25°	3214.0	3218.6	3214.0	3227.9	3237.0	3264.6	3255.5	3278.5	3315.4	3347.5	3402.8
27.5°	3034.5	3043.6	3043.6	3048.2	3071.2	3094.2	3094.2	3117.4	3149.5	3172.6	3227.9
30°	2841.0	2854.9	2841.0	2864.1	2873.2	2891.8	2905.5	2919.4	2947.0	2979.1	3029.9
32.5°	2620.0	2615.4	2620.0	2629.2	2656.9	2670.6	2679.9	2693.8	2721.4	2749.0	2790.4
35°	2357.6	2366.8	2371.4	2389.8	2389.8	2412.9	2417.4	2426.6	2468.1	2486.5	2518.8
37.5°	2081.2	2090.5	2095.1	2104.2	2122.8	2131.9	2145.8	2159.6	2187.2	2219.4	2237.9
40°	1837.2	1837.2	1841.9	1851.0	1864.9	1869.5	1883.2	1901.8	1920.1	1947.8	1966.1
42.5°	1607.0	1611.6	1607.0	1616.2	1630.0	1648.5	1643.9	1666.9	1671.5	1689.9	1703.8
45°	1427.4	1427.4	1418.2	1427.4	1427.4	1445.9	1441.2	1450.5	1445.9	1455.0	1445.9
47.5°	1257.0	1261.6	1257.0	1261.6	1261.6	1261.6	1266.2	1257.0	1261.6	1247.9	1220.2
50°	1123.5	1128.1	1118.9	1123.5	1118.9	1114.4	1118.9	1105.1	1100.5	1082.1	1054.5
52.5°	1008.4	1003.8	999.2	999.2	999.2	994.6	990.0	976.1	962.4	944.0	911.8
55°	907.1	902.5	897.9	897.9	888.8	884.1	884.1	870.2	856.5	833.4	796.6
57.5°	815.0	810.4	805.8	805.8	801.2	792.0	792.0	778.1	759.8	732.1	699.9
60°	727.5	727.5	727.5	722.9	722.9	713.8	713.8	699.9	681.5	653.9	617.0
62.5°	649.2	644.6	644.6	644.6	644.6	640.0	635.4	626.2	607.8	580.1	548.0
65°	557.1	557.1	557.1	557.1	552.5	552.5	552.5	538.8	529.5	501.9	469.6
67.5°	455.9	455.9	455.9	455.9	451.2	455.9	455.9	446.6	437.5	409.8	382.1
70°	363.8	359.1	354.5	359.1	354.5	354.5	359.1	350.0	345.4	322.4	294.8
72.5°	267.1	271.6	267.1	267.1	267.1	262.5	267.1	262.5	253.2	234.9	216.4
75°	188.8	193.4	193.4	188.8	188.8	188.8	184.1	184.1	175.0	161.1	152.0
77.5°	128.9	128.9	128.9	128.9	124.4	124.4	124.4	119.8	115.1	105.9	96.8
80°	82.9	82.9	82.9	82.9	78.2	78.2	78.2	73.6	73.6	64.5	55.2
82.5°	50.6	50.6	50.6	50.6	50.6	50.6	46.0	46.0	41.5	36.9	32.2
85°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	23.0	23.0	18.4	13.9
87.5°	9.2	9.2	13.9	13.9	13.9	13.9	13.9	13.9	9.2	9.2	9.2
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°	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0
2.5°	3964.6	3969.1	3969.1	3969.1	3983.0	3987.6	3973.8	3960.0	3987.6	3983.0	3992.2
5°	3918.5	3932.4	3941.5	3946.1	3960.0	3969.1	3955.4	3950.8	3973.8	3978.4	3983.0
7.5°	3863.2	3886.2	3909.4	3918.5	3937.0	3946.1	3941.5	3941.5	3969.1	3978.4	3978.4
10°	3826.4	3858.6	3886.2	3909.4	3932.4	3946.1	3946.1	3950.8	3983.0	3992.2	4001.4
12.5°	3817.2	3858.6	3895.5	3927.8	3946.1	3969.1	3973.8	3987.6	4019.9	4033.6	4033.6
15°	3794.2	3849.5	3895.5	3937.0	3964.6	3992.2	4001.4	4029.0	4065.9	4075.1	4084.2
17.5°	3752.8	3808.0	3863.2	3913.9	3950.8	3973.8	4001.4	4029.0	4075.1	4088.9	4093.5
20°	3679.1	3743.5	3798.8	3849.5	3886.2	3918.5	3946.1	3978.4	4019.9	4038.2	4042.9
22.5°	3568.6	3633.0	3688.2	3743.5	3780.4	3808.0	3835.6	3872.5	3913.9	3932.4	3932.4
25°	3435.0	3494.9	3554.8	3596.2	3633.0	3665.2	3679.1	3720.5	3762.0	3785.0	3785.0
27.5°	3264.6	3319.9	3375.1	3421.2	3444.2	3471.9	3494.9	3531.8	3564.0	3582.4	3600.8
30°	3048.2	3103.5	3154.1	3200.2	3227.9	3255.5	3278.5	3306.1	3338.4	3361.4	3366.0
32.5°	2813.4	2859.5	2910.1	2956.1	2983.8	2993.0	3016.0	3043.6	3071.2	3089.8	3094.2
35°	2555.5	2587.8	2620.0	2661.5	2689.1	2689.1	2712.1	2730.5	2753.5	2795.0	2785.8
37.5°	2251.6	2297.8	2320.8	2334.5	2353.0	2371.4	2376.0	2399.0	2426.6	2435.9	2449.6
40°	1966.1	1980.0	1993.8	1993.8	2012.2	2012.2	2012.2	2016.9	2044.5	2049.0	2067.5
42.5°	1680.6	1680.6	1666.9	1653.0	1657.6	1653.0	1630.0	1630.0	1643.9	1662.2	1662.2
45°	1413.6	1381.4	1340.0	1307.8	1284.8	1275.5	1247.9	1247.9	1243.2	1247.9	1266.2
47.5°	1188.0	1132.8	1063.6	999.2	976.1	957.8	916.4	897.9	888.8	893.2	902.5
50°	999.2	939.4	861.1	782.8	741.4	718.4	667.6	635.4	630.9	621.6	640.0
52.5°	861.1	787.4	704.5	612.4	571.0	534.1	478.9	451.2	432.9	432.9	437.5
55°	741.4	663.1	571.0	478.9	437.5	409.8	354.5	317.8	299.2	294.8	308.5
57.5°	640.0	566.4	474.2	382.1	340.8	308.5	253.2	221.0	207.2	198.0	202.6
60°	561.8	488.1	396.0	308.5	271.6	234.9	188.8	152.0	133.5	133.5	138.1
62.5°	488.1	419.0	336.1	253.2	221.0	188.8	138.1	105.9	92.1	87.5	92.1
65°	414.4	350.0	280.9	211.8	179.6	152.0	110.5	82.9	64.5	59.9	64.5
67.5°	336.1	285.5	225.6	170.4	142.8	119.8	82.9	59.9	46.0	41.5	46.0
70°	262.5	216.4	170.4	124.4	105.9	87.5	59.9	46.0	32.2	27.6	32.2
72.5°	188.8	156.5	119.8	87.5	73.6	59.9	41.5	32.2	23.0	18.4	23.0
75°	128.9	105.9	78.2	55.2	46.0	41.5	27.6	18.4	13.9	13.9	13.9
77.5°	82.9	64.5	50.6	36.9	27.6	23.0	13.9	9.2	9.2	9.2	9.2
80°	46.0	36.9	27.6	18.4	13.9	13.9	9.2	9.2	4.6	4.6	4.6
82.5°	27.6	18.4	13.9	9.2	9.2	4.6	4.6	4.6	4.6	4.6	4.6
85°	13.9	9.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	4.6	4.6	4.6	4.6	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°	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0
2.5°	3973.8	3978.4	3964.6	3983.0	3969.1	3987.6	3987.6	3969.1	3973.8	3964.6	3983.0
5°	3964.6	3964.6	3955.4	3969.1	3950.8	3969.1	3964.6	3932.4	3941.5	3923.1	3941.5
7.5°	3964.6	3955.4	3941.5	3955.4	3932.4	3946.1	3927.8	3895.5	3886.2	3863.2	3863.2
10°	3978.4	3964.6	3946.1	3950.8	3927.8	3932.4	3904.8	3858.6	3844.9	3817.2	3808.0
12.5°	4010.6	3996.8	3969.1	3978.4	3946.1	3946.1	3909.4	3854.1	3826.4	3789.6	3780.4
15°	4056.6	4033.6	4001.4	4006.0	3973.8	3955.4	3909.4	3844.9	3808.0	3757.4	3743.5
17.5°	4065.9	4042.9	4001.4	4001.4	3960.0	3937.0	3881.8	3808.0	3762.0	3711.4	3683.8
20°	4015.2	3992.2	3946.1	3941.5	3904.8	3872.5	3812.6	3739.0	3692.9	3637.6	3614.6
22.5°	3909.4	3881.8	3840.2	3835.6	3798.8	3780.4	3715.9	3642.2	3596.2	3541.0	3522.5
25°	3752.8	3739.0	3697.5	3692.9	3660.6	3637.6	3582.4	3513.4	3471.9	3416.6	3398.2
27.5°	3568.6	3554.8	3513.4	3513.4	3476.5	3462.6	3412.0	3347.5	3315.4	3264.6	3241.6
30°	3347.5	3329.1	3306.1	3301.5	3269.2	3255.5	3209.4	3149.5	3117.4	3075.9	3066.6
32.5°	3085.1	3071.2	3057.5	3052.9	3020.6	3006.9	2974.6	2914.8	2887.1	2850.2	2836.5
35°	2781.2	2772.0	2758.1	2753.5	2739.8	2725.9	2693.8	2647.6	2633.9	2606.2	2592.4
37.5°	2431.2	2440.5	2431.2	2431.2	2417.4	2422.0	2394.4	2366.8	2353.0	2334.5	2325.4
40°	2053.6	2072.1	2085.9	2085.9	2081.2	2099.8	2095.1	2072.1	2067.5	2058.2	2053.6
42.5°	1671.5	1680.6	1708.2	1726.8	1722.1	1768.1	1772.8	1791.2	1805.0	1795.8	1800.4
45°	1270.9	1298.5	1335.4	1353.8	1376.8	1436.6	1468.9	1505.8	1538.0	1556.4	1551.8
47.5°	916.4	948.5	990.0	1017.6	1059.0	1132.8	1215.6	1261.6	1307.8	1330.8	1353.8
50°	663.1	695.2	746.0	787.4	815.0	916.4	1003.8	1063.6	1114.4	1146.5	1169.6
52.5°	465.1	501.9	557.1	594.0	635.4	732.1	833.4	902.5	957.8	999.2	1022.2
55°	322.4	363.8	414.4	451.2	497.2	598.6	695.2	769.0	828.9	865.6	893.2
57.5°	225.6	262.5	313.1	345.4	391.4	488.1	584.8	658.5	718.4	755.1	787.4
60°	152.0	188.8	239.5	271.6	308.5	405.2	492.8	571.0	626.2	663.1	695.2
62.5°	105.9	138.1	188.8	221.0	253.2	336.1	419.0	488.1	543.4	584.8	612.4
65°	82.9	110.5	152.0	179.6	211.8	280.9	350.0	409.8	465.1	506.5	524.9
67.5°	59.9	87.5	119.8	142.8	165.8	225.6	285.5	331.5	382.1	414.4	437.5
70°	41.5	59.9	87.5	105.9	124.4	170.4	216.4	257.9	294.8	317.8	336.1
72.5°	32.2	41.5	59.9	73.6	87.5	119.8	156.5	188.8	216.4	234.9	253.2
75°	18.4	27.6	41.5	50.6	59.9	82.9	105.9	128.9	147.4	161.1	170.4
77.5°	9.2	13.9	23.0	27.6	36.9	50.6	69.1	82.9	96.8	105.9	115.1
80°	9.2	9.2	13.9	13.9	18.4	27.6	36.9	46.0	55.2	64.5	69.1
82.5°	4.6	4.6	9.2	9.2	9.2	13.9	18.4	27.6	32.2	36.9	41.5
85°	4.6	4.6	4.6	4.6	4.6	9.2	9.2	13.9	18.4	23.0	23.0
87.5°	0.0	0.0	4.6	4.6	4.6	4.6	4.6	9.2	9.2	9.2	13.9
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: P252612

CATALOG NUMBER: LE_6B50D010R EC6B30508040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0
2.5°	3969.1	3978.4	3973.8	3983.0	3969.1	3964.6	3973.8	3960.0
5°	3918.5	3923.1	3918.5	3918.5	3909.4	3900.1	3909.4	3895.5
7.5°	3840.2	3840.2	3826.4	3826.4	3808.0	3798.8	3798.8	3794.2
10°	3775.8	3762.0	3748.1	3752.8	3725.1	3715.9	3711.4	3706.8
12.5°	3743.5	3734.4	3711.4	3711.4	3683.8	3674.5	3669.9	3665.2
15°	3706.8	3688.2	3669.9	3665.2	3642.2	3633.0	3628.4	3619.2
17.5°	3642.2	3628.4	3605.4	3605.4	3582.4	3577.8	3568.6	3564.0
20°	3573.1	3554.8	3536.4	3536.4	3508.8	3508.8	3494.9	3499.5
22.5°	3476.5	3462.6	3444.2	3444.2	3421.2	3416.6	3402.8	3398.2
25°	3361.4	3343.0	3329.1	3324.5	3306.1	3296.9	3292.2	3283.1
27.5°	3209.4	3195.6	3181.8	3172.6	3149.5	3145.0	3131.1	3135.8
30°	3020.6	3011.4	3006.9	2997.6	2970.0	2960.8	2960.8	2947.0
32.5°	2813.4	2799.6	2790.4	2776.6	2753.5	2749.0	2735.1	2739.8
35°	2560.1	2541.8	2527.9	2532.5	2504.9	2500.2	2491.1	2495.8
37.5°	2297.8	2279.2	2260.9	2256.2	2233.2	2233.2	2219.4	2219.4
40°	2026.0	2007.6	1998.4	1998.4	1970.8	1975.4	1961.6	1957.0
42.5°	1782.0	1763.6	1759.0	1754.4	1740.5	1736.0	1722.1	1726.8
45°	1551.8	1547.1	1547.1	1538.0	1524.1	1519.5	1524.1	1524.1
47.5°	1349.1	1353.8	1349.1	1349.1	1340.0	1349.1	1340.0	1344.5
50°	1178.8	1188.0	1188.0	1188.0	1183.4	1188.0	1188.0	1192.6
52.5°	1036.0	1049.9	1045.2	1049.9	1045.2	1054.5	1049.9	1054.5
55°	911.8	920.9	925.5	930.1	930.1	930.1	930.1	930.1
57.5°	796.6	810.4	815.0	819.6	819.6	828.9	819.6	819.6
60°	704.5	718.4	722.9	727.5	727.5	732.1	722.9	727.5
62.5°	621.6	635.4	635.4	640.0	640.0	640.0	630.9	635.4
65°	538.8	543.4	548.0	548.0	543.4	543.4	538.8	543.4
67.5°	446.6	451.2	446.6	446.6	442.0	442.0	432.9	437.5
70°	345.4	345.4	350.0	345.4	340.8	345.4	340.8	336.1
72.5°	257.9	257.9	257.9	253.2	253.2	248.6	253.2	253.2
75°	175.0	175.0	179.6	179.6	179.6	179.6	175.0	175.0
77.5°	115.1	115.1	115.1	115.1	119.8	115.1	115.1	115.1
80°	73.6	73.6	78.2	78.2	73.6	73.6	73.6	73.6
82.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
85°	27.6	27.6	27.6	27.6	23.0	23.0	23.0	23.0
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	9.2	9.2
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)