

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: P252183

Luminaire Tested: **LE_6B40D010 EC6B30508040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508040 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE 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: 6885.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

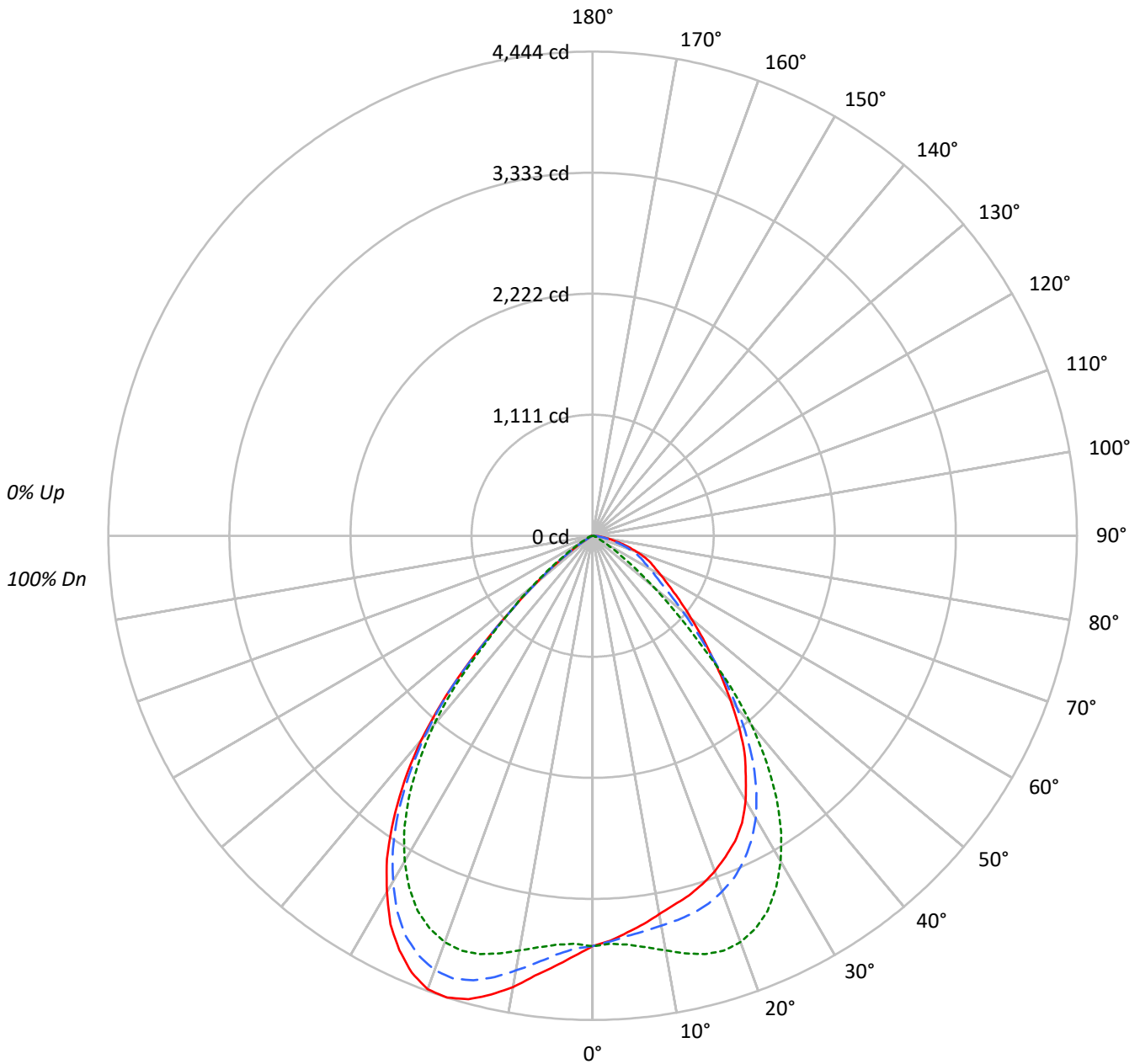
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	245735	245735	245735
5°	239365	246674	259654
10°	233547	255972	278635
15°	230818	268513	297455
20°	227507	275503	307509
25°	222664	273471	301985
30°	211596	259885	284301
35°	193583	234313	253818
40°	167444	193513	208238
45°	141201	126919	136219
50°	119877	73463	69078
55°	104030	35215	26627
60°	93973	16441	6576
65°	91172	9448	2223
70°	81737	7554	2060
75°	67177	5445	907
80°	50044	2705	0
85°	43117	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	5.3
10°-20°	1108.8	16.1
20°-30°	1694.1	24.6
30°-40°	1771.9	25.7
40°-50°	1149.5	16.7
50°-60°	456.4	6.6
60°-70°	216.5	3.1
70°-80°	103.0	1.5
80°-90°	21.0	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°	3166.8	46.0
0°-40°	4938.7	71.7
0°-60°	6544.5	95.1
0°-90°	6885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6885.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3767	3767	3767	3767	3767	
5°	3655	3687	3767	3860	3965	345
15°	3417	3583	3976	4224	4404	963
25°	3093	3288	3799	4055	4195	1416
35°	2431	2578	2942	3115	3187	1503
45°	1530	1516	1376	1458	1476	1191
55°	915	778	310	241	234	829
65°	591	490	61	14	14	577
75°	266	216	22	7	4	287
85°	58	36	0	0	0	67
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°	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6
2.5°	3719.9	3727.0	3687.4	3676.6	3705.4	3716.2	3719.9	3709.0	3712.6	3727.0	3727.0
5°	3655.0	3662.2	3626.2	3615.4	3644.2	3651.4	3662.2	3658.6	3669.4	3691.0	3687.4
7.5°	3593.8	3604.6	3565.0	3550.6	3586.6	3604.6	3611.8	3611.8	3626.2	3655.0	3658.6
10°	3525.4	3539.8	3503.8	3496.6	3536.1	3554.1	3557.8	3565.0	3586.6	3626.2	3633.4
12.5°	3467.8	3482.1	3457.0	3446.1	3489.4	3507.4	3514.6	3529.0	3554.1	3604.6	3611.8
15°	3417.4	3428.1	3399.4	3392.1	3435.4	3457.0	3460.5	3482.1	3514.6	3572.1	3583.0
17.5°	3352.5	3359.8	3338.1	3330.9	3374.1	3395.8	3399.4	3424.5	3464.1	3521.8	3539.8
20°	3276.9	3284.1	3262.5	3255.2	3298.5	3323.8	3327.4	3348.9	3395.8	3457.0	3475.0
22.5°	3186.9	3201.2	3176.1	3168.9	3212.1	3233.8	3244.5	3262.5	3309.2	3370.5	3395.8
25°	3093.2	3093.2	3075.2	3071.6	3111.2	3136.5	3132.9	3158.1	3204.9	3266.1	3287.8
27.5°	2970.9	2967.2	2949.2	2945.6	2988.9	3010.4	3003.2	3028.4	3071.6	3132.9	3154.5
30°	2808.8	2816.0	2790.8	2783.6	2819.6	2855.6	2852.0	2877.2	2920.4	2978.0	2992.4
32.5°	2614.4	2621.5	2617.9	2607.1	2639.5	2657.5	2668.4	2686.4	2722.4	2783.6	2798.0
35°	2430.6	2419.9	2405.5	2405.5	2437.9	2466.6	2455.9	2477.5	2513.5	2574.8	2578.2
37.5°	2203.8	2200.2	2193.0	2185.8	2221.8	2229.0	2232.6	2247.0	2279.4	2329.9	2322.6
40°	1966.1	1969.8	1966.1	1951.8	1973.4	2002.1	1998.5	2005.8	2034.5	2070.6	2059.8
42.5°	1742.9	1742.9	1742.9	1728.5	1753.6	1768.1	1775.2	1771.8	1778.9	1811.2	1796.9
45°	1530.4	1534.0	1530.4	1526.9	1530.4	1537.6	1530.4	1526.9	1526.9	1537.6	1516.0
47.5°	1346.8	1346.8	1336.0	1325.1	1336.0	1339.6	1328.8	1318.0	1314.4	1310.8	1274.8
50°	1181.1	1177.5	1173.9	1155.9	1166.8	1170.4	1155.9	1148.8	1134.4	1116.2	1073.1
52.5°	1037.1	1033.5	1029.9	1011.9	1019.1	1022.6	1008.2	993.9	975.9	961.5	907.5
55°	914.6	911.0	911.0	900.2	893.0	900.2	885.9	875.0	849.9	831.9	777.9
57.5°	810.2	810.2	803.0	792.2	795.9	795.9	781.4	767.0	745.4	723.8	680.6
60°	720.2	720.2	720.2	709.4	709.4	709.4	702.2	687.8	669.8	648.1	605.0
62.5°	648.1	648.1	644.6	633.8	637.4	637.4	630.1	615.8	597.8	583.4	540.1
65°	590.6	590.6	590.6	579.8	579.8	583.4	576.1	561.8	547.4	529.4	489.8
67.5°	518.5	515.0	515.0	507.8	511.4	515.0	507.8	496.9	478.9	468.1	432.1
70°	428.5	432.1	435.8	424.9	428.5	428.5	424.9	414.1	403.2	392.5	360.1
72.5°	349.2	349.2	345.8	342.1	342.1	345.8	338.5	327.8	320.5	313.2	288.1
75°	266.5	262.9	266.5	259.2	259.2	259.2	252.1	248.5	244.9	234.1	216.0
77.5°	194.5	190.9	190.9	183.6	187.2	187.2	183.6	176.5	169.2	165.6	151.2
80°	133.2	133.2	133.2	129.6	129.6	126.0	126.0	122.4	115.2	111.6	104.4
82.5°	90.0	90.0	90.0	86.4	86.4	86.4	82.9	79.2	75.6	72.0	64.9
85°	57.6	57.6	57.6	54.0	54.0	54.0	50.4	50.4	46.9	43.2	36.0
87.5°	32.4	32.4	32.4	28.8	28.8	28.8	28.8	28.8	25.2	21.6	18.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6
2.5°	3752.2	3701.9	3734.2	3734.2	3723.4	3752.2	3770.2	3784.6	3781.0	3748.6	3745.0
5°	3723.4	3680.2	3716.2	3719.9	3709.0	3748.6	3773.9	3791.9	3795.5	3766.6	3770.2
7.5°	3701.9	3665.8	3712.6	3727.0	3723.4	3759.4	3788.2	3817.0	3831.5	3809.9	3813.5
10°	3691.0	3662.2	3712.6	3734.2	3737.9	3777.5	3820.6	3860.2	3878.2	3863.9	3874.6
12.5°	3676.6	3658.6	3716.2	3748.6	3763.0	3802.6	3856.6	3903.5	3932.2	3925.1	3946.8
15°	3662.2	3647.8	3716.2	3763.0	3781.0	3817.0	3878.2	3946.8	3979.1	3975.5	4004.2
17.5°	3626.2	3622.6	3694.6	3745.0	3770.2	3813.5	3871.1	3953.9	3986.2	3993.5	4029.5
20°	3568.6	3568.6	3647.8	3701.9	3730.6	3770.2	3842.2	3921.5	3961.1	3968.2	4007.9
22.5°	3489.4	3496.6	3572.1	3626.2	3669.4	3698.2	3773.9	3856.6	3892.6	3903.5	3946.8
25°	3384.9	3392.1	3464.1	3518.1	3565.0	3597.4	3669.4	3745.0	3788.2	3799.0	3831.5
27.5°	3248.1	3262.5	3330.9	3384.9	3424.5	3446.1	3521.8	3601.0	3633.4	3644.2	3676.6
30°	3089.6	3093.2	3161.6	3208.5	3248.1	3266.1	3330.9	3413.8	3439.0	3449.8	3496.6
32.5°	2895.2	2891.6	2956.4	2999.6	3032.0	3053.6	3122.0	3176.1	3201.2	3219.2	3244.5
35°	2661.1	2657.5	2704.4	2754.8	2780.0	2787.1	2855.6	2913.2	2927.6	2942.0	2974.4
37.5°	2398.2	2398.2	2437.9	2463.1	2491.9	2502.8	2535.1	2599.9	2625.1	2621.5	2646.8
40°	2121.0	2106.6	2135.4	2160.6	2167.8	2171.4	2203.8	2254.2	2272.2	2272.2	2290.2
42.5°	1829.2	1807.8	1811.2	1825.8	1832.9	1807.8	1829.2	1861.8	1850.9	1865.4	1868.9
45°	1519.6	1487.2	1472.8	1440.4	1447.6	1422.4	1408.0	1415.2	1411.6	1375.6	1382.8
47.5°	1267.5	1209.9	1184.8	1137.9	1127.1	1098.2	1080.2	1047.9	1019.1	1019.1	1001.1
50°	1055.1	997.5	947.0	893.0	875.0	849.9	810.2	767.0	745.4	723.8	705.8
52.5°	885.9	824.6	763.4	705.8	680.6	648.1	594.1	551.0	511.4	489.8	468.1
55°	749.0	680.6	615.8	554.5	522.1	489.8	435.8	385.2	338.5	309.6	291.6
57.5°	644.6	579.8	511.4	446.5	417.8	381.8	324.1	270.1	226.9	194.5	176.5
60°	569.0	504.1	442.9	374.5	345.8	309.6	248.5	198.0	154.9	126.0	104.4
62.5°	504.1	446.5	381.8	320.5	291.6	255.6	198.0	147.6	108.0	79.2	61.2
65°	457.4	399.8	345.8	284.5	259.2	223.2	169.2	122.4	86.4	61.2	43.2
67.5°	403.2	352.9	298.9	248.5	223.2	194.5	144.0	104.4	72.0	50.4	36.0
70°	338.5	298.9	252.1	205.2	187.2	162.0	118.9	86.4	57.6	39.6	28.8
72.5°	270.1	237.6	201.6	165.6	151.2	126.0	97.2	68.4	43.2	28.8	21.6
75°	205.2	180.0	151.2	126.0	111.6	97.2	72.0	50.4	32.4	21.6	14.4
77.5°	140.5	129.6	108.0	86.4	79.2	68.4	46.9	32.4	21.6	14.4	7.2
80°	97.2	86.4	72.0	57.6	50.4	43.2	28.8	21.6	10.8	7.2	3.6
82.5°	61.2	50.4	43.2	36.0	32.4	25.2	18.0	10.8	7.2	3.6	3.6
85°	32.4	28.8	25.2	18.0	18.0	14.4	10.8	7.2	3.6	0.0	0.0
87.5°	18.0	14.4	10.8	7.2	7.2	3.6	3.6	3.6	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°	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6
2.5°	3788.2	3788.2	3784.6	3827.9	3777.5	3827.9	3802.6	3827.9	3791.9	3788.2	3791.9
5°	3817.0	3827.9	3831.5	3871.1	3824.2	3885.5	3863.9	3885.5	3860.2	3867.5	3878.2
7.5°	3874.6	3892.6	3889.1	3939.5	3892.6	3961.1	3946.8	3979.1	3953.9	3961.1	3975.5
10°	3939.5	3961.1	3964.8	4015.1	3971.9	4054.8	4036.8	4072.8	4051.1	4061.9	4079.9
12.5°	4015.1	4040.4	4043.9	4101.5	4054.8	4141.1	4130.4	4166.4	4148.4	4159.1	4180.8
15°	4072.8	4108.8	4115.9	4173.5	4123.1	4213.1	4206.0	4252.8	4224.0	4242.0	4260.0
17.5°	4101.5	4134.0	4148.4	4202.4	4159.1	4249.1	4242.0	4281.6	4260.0	4278.0	4299.6
20°	4083.5	4123.1	4134.0	4188.0	4144.8	4234.8	4224.0	4263.6	4242.0	4256.4	4278.0
22.5°	4018.8	4058.4	4072.8	4123.1	4083.5	4166.4	4162.8	4198.8	4170.0	4188.0	4206.0
25°	3903.5	3946.8	3953.9	4000.8	3957.5	4043.9	4036.8	4076.4	4054.8	4065.5	4090.8
27.5°	3737.9	3788.2	3799.0	3838.6	3806.2	3878.2	3878.2	3910.6	3885.5	3885.5	3910.6
30°	3539.8	3590.2	3597.4	3629.8	3601.0	3665.8	3669.4	3701.9	3662.2	3683.9	3687.4
32.5°	3298.5	3330.9	3352.5	3381.4	3338.1	3421.0	3410.1	3435.4	3413.8	3413.8	3431.8
35°	3006.9	3046.5	3057.2	3093.2	3057.2	3122.0	3122.0	3136.5	3114.9	3114.9	3143.6
37.5°	2690.0	2718.8	2722.4	2758.4	2729.5	2783.6	2780.0	2790.8	2769.1	2783.6	2783.6
40°	2319.0	2340.6	2347.9	2365.9	2362.2	2401.9	2398.2	2405.5	2394.6	2398.2	2405.5
42.5°	1886.9	1915.8	1930.1	1944.5	1922.9	1977.0	1966.1	1977.0	1973.4	1977.0	1987.8
45°	1390.0	1411.6	1422.4	1426.0	1418.8	1451.2	1476.4	1454.8	1458.4	1451.2	1465.6
47.5°	1004.6	1008.2	1001.1	1022.6	1004.6	1019.1	1026.2	1029.9	1008.2	1004.6	1019.1
50°	687.8	705.8	680.6	691.4	687.8	702.2	695.0	698.6	677.0	687.8	680.6
52.5°	457.4	453.8	446.5	450.1	442.9	442.9	442.9	450.1	435.8	428.5	421.4
55°	277.2	270.1	255.6	252.1	252.1	255.6	248.5	241.2	241.2	237.6	237.6
57.5°	162.0	151.2	144.0	140.5	133.2	129.6	126.0	126.0	118.9	118.9	118.9
60°	90.0	79.2	72.0	64.9	64.9	61.2	57.6	54.0	54.0	54.0	50.4
62.5°	46.9	39.6	32.4	28.8	28.8	25.2	21.6	21.6	21.6	21.6	18.0
65°	32.4	25.2	21.6	18.0	18.0	14.4	14.4	14.4	14.4	14.4	14.4
67.5°	25.2	21.6	18.0	14.4	14.4	14.4	10.8	10.8	10.8	10.8	10.8
70°	21.6	14.4	14.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
72.5°	14.4	14.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
75°	10.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0
80°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P252183

CATALOG NUMBER: LE_6B40D010 EC6B30508040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6	3766.6
2.5°	3824.2	3820.6	3824.2	3831.5	3817.0	3860.2	3838.6	3860.2
5°	3907.1	3910.6	3914.2	3925.1	3907.1	3961.1	3932.2	3964.8
7.5°	4015.1	4018.8	4022.2	4033.1	4022.2	4076.4	4043.9	4072.8
10°	4126.8	4134.0	4134.0	4152.0	4141.1	4191.5	4170.0	4206.0
12.5°	4231.1	4238.4	4245.6	4256.4	4249.1	4303.1	4285.1	4314.0
15°	4314.0	4328.4	4332.0	4346.4	4339.2	4396.8	4375.2	4404.0
17.5°	4353.6	4368.0	4368.0	4386.0	4378.8	4440.0	4411.2	4443.6
20°	4332.0	4342.8	4346.4	4364.4	4357.2	4418.4	4389.6	4429.2
22.5°	4263.6	4267.1	4270.8	4288.8	4285.1	4339.2	4314.0	4339.2
25°	4137.5	4148.4	4144.8	4159.1	4159.1	4202.4	4173.5	4195.1
27.5°	3957.5	3968.2	3968.2	3986.2	3971.9	4015.1	3986.2	4018.8
30°	3737.9	3748.6	3741.4	3755.9	3741.4	3784.6	3763.0	3773.9
32.5°	3475.0	3475.0	3478.5	3482.1	3475.0	3514.6	3493.0	3514.6
35°	3161.6	3168.9	3172.5	3176.1	3168.9	3197.6	3172.5	3186.9
37.5°	2808.8	2826.8	2823.1	2826.8	2816.0	2852.0	2830.4	2837.6
40°	2430.6	2430.6	2427.1	2434.2	2423.5	2452.2	2437.9	2445.1
42.5°	1991.4	2002.1	1987.8	2005.8	1977.0	2016.5	2002.1	1991.4
45°	1494.4	1480.0	1476.4	1480.0	1469.2	1472.8	1483.6	1476.4
47.5°	1019.1	1019.1	1011.9	1001.1	1015.5	1019.1	1004.6	1004.6
50°	684.2	684.2	677.0	673.4	680.6	677.0	669.8	680.6
52.5°	435.8	421.4	421.4	428.5	421.4	414.1	424.9	417.8
55°	237.6	230.5	230.5	237.6	230.5	230.5	226.9	234.1
57.5°	115.2	118.9	115.2	115.2	115.2	115.2	111.6	115.2
60°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
62.5°	21.6	21.6	18.0	18.0	18.0	18.0	18.0	18.0
65°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
67.5°	10.8	10.8	10.8	10.8	10.8	14.4	10.8	10.8
70°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
72.5°	10.8	10.8	14.4	14.4	14.4	14.4	14.4	14.4
75°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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













(END OF REPORT)