

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: P252214

Luminaire Tested: **LE_6B60D010R EC6B60709035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252214
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_6B60D010R EC6B60709035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8231.2 lumens
Efficiency: N/A
Efficacy: 131.7 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

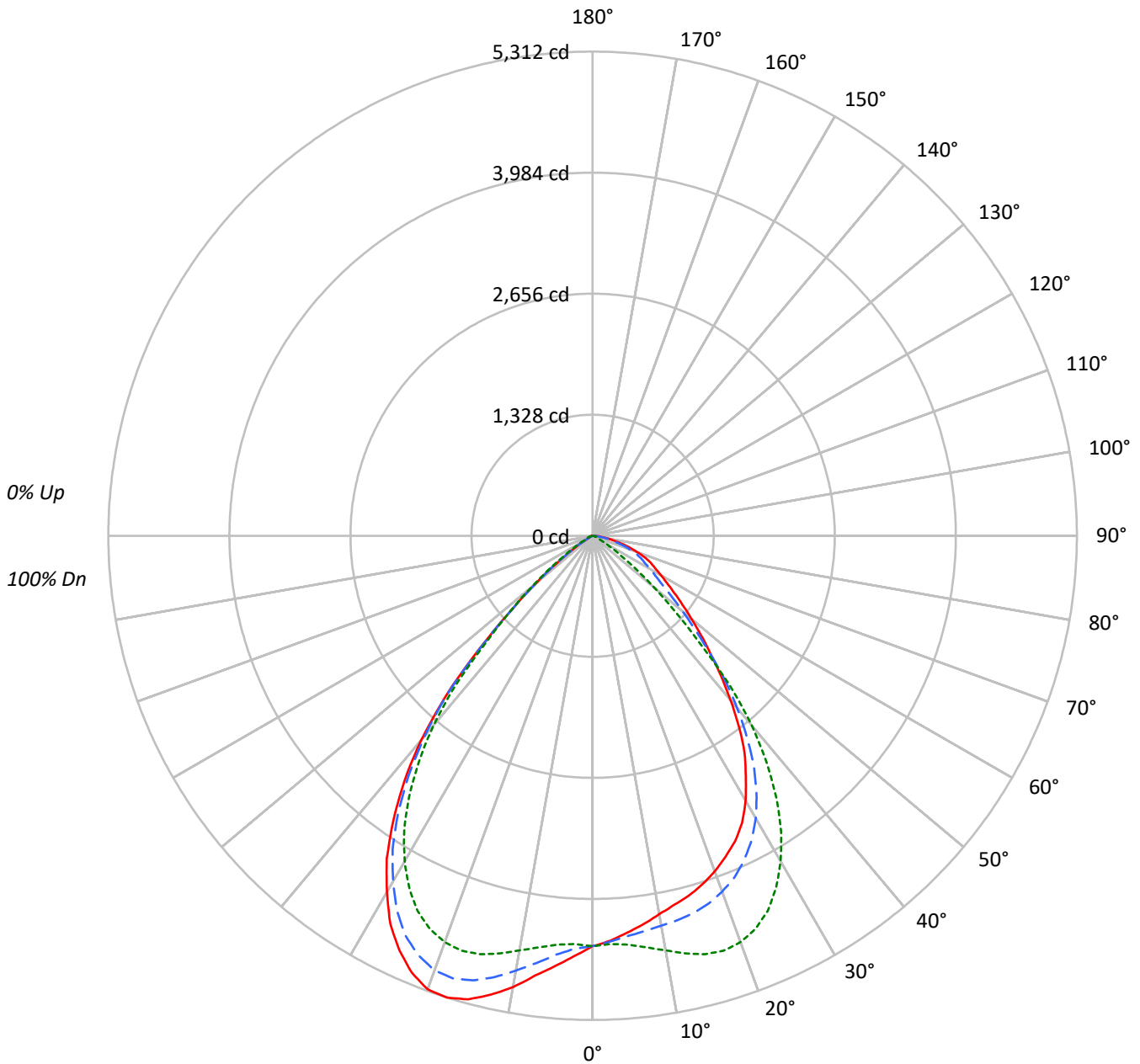
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	293785	293785	293785
5°	286164	294907	310415
10°	279218	306022	333117
15°	275943	321021	355616
20°	271990	329379	367633
25°	266208	326949	361041
30°	252970	310690	339889
35°	231446	280124	303444
40°	200190	231352	248948
45°	168807	151728	162856
50°	143323	87835	82577
55°	124379	42108	31837
60°	112344	19650	7855
65°	108987	11285	2655
70°	97703	9042	2461
75°	80310	6529	1059
80°	59812	3231	0
85°	51575	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.0	5.3
10°-20°	1325.6	16.1
20°-30°	2025.4	24.6
30°-40°	2118.4	25.7
40°-50°	1374.2	16.7
50°-60°	545.6	6.6
60°-70°	258.8	3.1
70°-80°	123.1	1.5
80°-90°	25.1	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°	3786.0	46.0
0°-40°	5904.4	71.7
0°-60°	7824.2	95.1
0°-90°	8231.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8231.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4503	4503	4503	4503	4503	
5°	4370	4408	4503	4615	4740	413
15°	4086	4284	4753	5050	5265	1151
25°	3698	3931	4542	4848	5016	1693
35°	2906	3082	3517	3724	3810	1797
45°	1830	1812	1644	1744	1765	1424
55°	1094	930	370	288	280	991
65°	706	586	73	17	17	690
75°	319	258	26	9	4	344
85°	69	43	0	0	0	80
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°	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1
2.5°	4447.1	4455.8	4408.4	4395.5	4430.0	4442.9	4447.1	4434.2	4438.6	4455.8	4455.8
5°	4369.6	4378.2	4335.2	4322.4	4356.8	4365.4	4378.2	4374.0	4386.9	4412.8	4408.4
7.5°	4296.5	4309.4	4262.0	4244.9	4287.9	4309.4	4318.0	4318.0	4335.2	4369.6	4374.0
10°	4214.8	4231.9	4188.9	4180.2	4227.6	4249.1	4253.5	4262.0	4287.9	4335.2	4343.9
12.5°	4145.9	4163.0	4132.9	4120.0	4171.6	4193.1	4201.8	4219.0	4249.1	4309.4	4318.0
15°	4085.5	4098.5	4064.0	4055.4	4107.1	4132.9	4137.2	4163.0	4201.8	4270.6	4283.6
17.5°	4008.0	4016.6	3990.9	3982.2	4033.9	4059.8	4064.0	4094.1	4141.5	4210.4	4231.9
20°	3917.6	3926.2	3900.4	3891.9	3943.5	3973.6	3977.9	4003.8	4059.8	4132.9	4154.4
22.5°	3810.0	3827.2	3797.1	3788.5	3840.1	3866.0	3878.9	3900.4	3956.4	4029.6	4059.8
25°	3698.1	3698.1	3676.5	3672.2	3719.6	3749.8	3745.5	3775.6	3831.5	3904.8	3930.6
27.5°	3551.8	3547.4	3525.9	3521.6	3573.2	3599.1	3590.5	3620.6	3672.2	3745.5	3771.2
30°	3358.0	3366.6	3336.5	3327.9	3370.9	3414.0	3409.6	3439.8	3491.5	3560.4	3577.5
32.5°	3125.5	3134.1	3129.9	3116.9	3155.6	3177.1	3190.1	3211.6	3254.6	3327.9	3345.1
35°	2906.0	2893.0	2875.8	2875.8	2914.5	2949.0	2936.1	2961.9	3005.0	3078.1	3082.5
37.5°	2634.8	2630.4	2621.8	2613.2	2656.2	2664.9	2669.1	2686.4	2725.1	2785.4	2776.8
40°	2350.6	2354.9	2350.6	2333.4	2359.2	2393.6	2389.4	2398.0	2432.4	2475.4	2462.5
42.5°	2083.6	2083.6	2083.6	2066.5	2096.6	2113.8	2122.4	2118.1	2126.8	2165.5	2148.2
45°	1829.6	1834.0	1829.6	1825.4	1829.6	1838.2	1829.6	1825.4	1825.4	1838.2	1812.5
47.5°	1610.1	1610.1	1597.2	1584.2	1597.2	1601.5	1588.6	1575.6	1571.4	1567.0	1524.0
50°	1412.1	1407.8	1403.5	1382.0	1394.9	1399.1	1382.0	1373.4	1356.1	1334.6	1282.9
52.5°	1239.9	1235.6	1231.2	1209.8	1218.4	1222.6	1205.4	1188.2	1166.6	1149.5	1084.9
55°	1093.5	1089.2	1089.2	1076.2	1067.6	1076.2	1059.0	1046.1	1016.0	994.5	929.9
57.5°	968.6	968.6	960.0	947.1	951.4	951.4	934.2	917.0	891.1	865.4	813.6
60°	861.0	861.0	861.0	848.1	848.1	848.1	839.5	822.2	800.8	774.9	723.2
62.5°	774.9	774.9	770.6	757.8	762.0	762.0	753.4	736.1	714.6	697.4	645.8
65°	706.0	706.0	706.0	693.1	693.1	697.4	688.9	671.6	654.4	632.9	585.5
67.5°	619.9	615.6	615.6	607.0	611.4	615.6	607.0	594.1	572.6	559.6	516.6
70°	512.2	516.6	520.9	508.0	512.2	512.2	508.0	495.1	482.1	469.2	430.5
72.5°	417.6	417.6	413.2	409.0	409.0	413.2	404.6	391.8	383.1	374.5	344.4
75°	318.6	314.2	318.6	310.0	310.0	310.0	301.4	297.0	292.8	279.9	258.2
77.5°	232.5	228.1	228.1	219.5	223.9	223.9	219.5	211.0	202.4	198.0	180.9
80°	159.2	159.2	159.2	155.0	155.0	150.6	150.6	146.4	137.8	133.5	124.9
82.5°	107.6	107.6	107.6	103.4	103.4	103.4	99.0	94.8	90.4	86.1	77.5
85°	68.9	68.9	68.9	64.6	64.6	64.6	60.2	60.2	56.0	51.6	43.0
87.5°	38.8	38.8	38.8	34.5	34.5	34.5	34.5	34.5	30.1	25.9	21.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1
2.5°	4485.9	4425.6	4464.4	4464.4	4451.5	4485.9	4507.5	4524.6	4520.4	4481.6	4477.4
5°	4451.5	4399.9	4442.9	4447.1	4434.2	4481.6	4511.8	4533.2	4537.6	4503.1	4507.5
7.5°	4425.6	4382.6	4438.6	4455.8	4451.5	4494.5	4529.0	4563.4	4580.6	4554.8	4559.1
10°	4412.8	4378.2	4438.6	4464.4	4468.8	4516.0	4567.8	4615.1	4636.6	4619.4	4632.2
12.5°	4395.5	4374.0	4442.9	4481.6	4498.9	4546.2	4610.8	4666.8	4701.1	4692.6	4718.4
15°	4378.2	4361.1	4442.9	4498.9	4520.4	4563.4	4636.6	4718.4	4757.1	4752.9	4787.2
17.5°	4335.2	4331.0	4417.0	4477.4	4507.5	4559.1	4628.0	4727.0	4765.8	4774.4	4817.4
20°	4266.4	4266.4	4361.1	4425.6	4460.1	4507.5	4593.5	4688.2	4735.6	4744.2	4791.6
22.5°	4171.6	4180.2	4270.6	4335.2	4386.9	4421.4	4511.8	4610.8	4653.9	4666.8	4718.4
25°	4046.8	4055.4	4141.5	4206.1	4262.0	4300.8	4386.9	4477.4	4529.0	4541.9	4580.6
27.5°	3883.2	3900.4	3982.2	4046.8	4094.1	4120.0	4210.4	4305.1	4343.9	4356.8	4395.5
30°	3693.8	3698.1	3779.9	3835.9	3883.2	3904.8	3982.2	4081.2	4111.4	4124.2	4180.2
32.5°	3461.2	3457.0	3534.5	3586.1	3624.9	3650.8	3732.5	3797.1	3827.2	3848.8	3878.9
35°	3181.5	3177.1	3233.1	3293.4	3323.5	3332.1	3414.0	3482.9	3500.0	3517.2	3556.0
37.5°	2867.2	2867.2	2914.5	2944.8	2979.1	2992.0	3030.8	3108.2	3138.4	3134.1	3164.2
40°	2535.8	2518.5	2552.9	2583.1	2591.6	2596.0	2634.8	2695.0	2716.5	2716.5	2738.0
42.5°	2187.0	2161.1	2165.5	2182.8	2191.2	2161.1	2187.0	2225.8	2212.9	2230.0	2234.4
45°	1816.8	1778.0	1760.8	1722.0	1730.6	1700.5	1683.2	1691.9	1687.6	1644.5	1653.1
47.5°	1515.4	1446.5	1416.4	1360.4	1347.5	1313.0	1291.5	1252.8	1218.4	1218.4	1196.9
50°	1261.4	1192.5	1132.2	1067.6	1046.1	1016.0	968.6	917.0	891.1	865.4	843.8
52.5°	1059.0	985.9	912.6	843.8	813.6	774.9	710.4	658.6	611.4	585.5	559.6
55°	895.5	813.6	736.1	663.0	624.2	585.5	520.9	460.6	404.6	370.2	348.8
57.5°	770.6	693.1	611.4	533.9	499.4	456.4	387.5	322.9	271.2	232.5	211.0
60°	680.2	602.8	529.5	447.8	413.2	370.2	297.0	236.8	185.1	150.6	124.9
62.5°	602.8	533.9	456.4	383.1	348.8	305.6	236.8	176.5	129.1	94.8	73.1
65°	546.8	477.9	413.2	340.1	310.0	266.9	202.4	146.4	103.4	73.1	51.6
67.5°	482.1	421.9	357.4	297.0	266.9	232.5	172.2	124.9	86.1	60.2	43.0
70°	404.6	357.4	301.4	245.4	223.9	193.8	142.1	103.4	68.9	47.4	34.5
72.5°	322.9	284.1	241.1	198.0	180.9	150.6	116.2	81.8	51.6	34.5	25.9
75°	245.4	215.2	180.9	150.6	133.5	116.2	86.1	60.2	38.8	25.9	17.2
77.5°	167.9	155.0	129.1	103.4	94.8	81.8	56.0	38.8	25.9	17.2	8.6
80°	116.2	103.4	86.1	68.9	60.2	51.6	34.5	25.9	12.9	8.6	4.2
82.5°	73.1	60.2	51.6	43.0	38.8	30.1	21.5	12.9	8.6	4.2	4.2
85°	38.8	34.5	30.1	21.5	21.5	17.2	12.9	8.6	4.2	0.0	0.0
87.5°	21.5	17.2	12.9	8.6	8.6	4.2	4.2	4.2	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°	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1
2.5°	4529.0	4529.0	4524.6	4576.4	4516.0	4576.4	4546.2	4576.4	4533.2	4529.0	4533.2
5°	4563.4	4576.4	4580.6	4628.0	4572.0	4645.2	4619.4	4645.2	4615.1	4623.6	4636.6
7.5°	4632.2	4653.9	4649.5	4709.8	4653.9	4735.6	4718.4	4757.1	4727.0	4735.6	4752.9
10°	4709.8	4735.6	4739.9	4800.2	4748.5	4847.5	4826.0	4869.1	4843.2	4856.1	4877.8
12.5°	4800.2	4830.4	4834.6	4903.5	4847.5	4950.9	4938.0	4981.0	4959.5	4972.4	4998.2
15°	4869.1	4912.1	4920.8	4989.6	4929.4	5037.0	5028.4	5084.4	5049.9	5071.4	5093.0
17.5°	4903.5	4942.2	4959.5	5024.0	4972.4	5080.0	5071.4	5118.8	5093.0	5114.5	5140.2
20°	4882.0	4929.4	4942.2	5006.9	4955.1	5062.8	5049.9	5097.2	5071.4	5088.6	5114.5
22.5°	4804.5	4851.9	4869.1	4929.4	4882.0	4981.0	4976.8	5019.8	4985.4	5006.9	5028.4
25°	4666.8	4718.4	4727.0	4783.0	4731.4	4834.6	4826.0	4873.4	4847.5	4860.5	4890.6
27.5°	4468.8	4529.0	4541.9	4589.2	4550.5	4636.6	4636.6	4675.4	4645.2	4645.2	4675.4
30°	4231.9	4292.2	4300.8	4339.5	4305.1	4382.6	4386.9	4425.6	4378.2	4404.1	4408.4
32.5°	3943.5	3982.2	4008.0	4042.5	3990.9	4089.9	4077.0	4107.1	4081.2	4081.2	4102.8
35°	3594.8	3642.1	3655.0	3698.1	3655.0	3732.5	3732.5	3749.8	3723.9	3723.9	3758.4
37.5°	3215.9	3250.4	3254.6	3297.8	3263.2	3327.9	3323.5	3336.5	3310.6	3327.9	3327.9
40°	2772.5	2798.4	2806.9	2828.5	2824.1	2871.5	2867.2	2875.8	2862.9	2867.2	2875.8
42.5°	2255.9	2290.4	2307.5	2324.8	2298.9	2363.5	2350.6	2363.5	2359.2	2363.5	2376.4
45°	1661.8	1687.6	1700.5	1704.9	1696.2	1735.0	1765.1	1739.2	1743.6	1735.0	1752.1
47.5°	1201.1	1205.4	1196.9	1222.6	1201.1	1218.4	1227.0	1231.2	1205.4	1201.1	1218.4
50°	822.2	843.8	813.6	826.6	822.2	839.5	830.9	835.2	809.4	822.2	813.6
52.5°	546.8	542.5	533.9	538.1	529.5	529.5	529.5	538.1	520.9	512.2	503.8
55°	331.5	322.9	305.6	301.4	301.4	305.6	297.0	288.5	288.5	284.1	284.1
57.5°	193.8	180.9	172.2	167.9	159.2	155.0	150.6	150.6	142.1	142.1	142.1
60°	107.6	94.8	86.1	77.5	77.5	73.1	68.9	64.6	64.6	64.6	60.2
62.5°	56.0	47.4	38.8	34.5	34.5	30.1	25.9	25.9	25.9	25.9	21.5
65°	38.8	30.1	25.9	21.5	21.5	17.2	17.2	17.2	17.2	17.2	17.2
67.5°	30.1	25.9	21.5	17.2	17.2	17.2	12.9	12.9	12.9	12.9	12.9
70°	25.9	17.2	17.2	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
72.5°	17.2	17.2	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
75°	12.9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	0.0	0.0	0.0	0.0	0.0
80°	4.2	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: P252214

CATALOG NUMBER: LE_6B60D010R EC6B60709035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1
2.5°	4572.0	4567.8	4572.0	4580.6	4563.4	4615.1	4589.2	4615.1
5°	4671.0	4675.4	4679.6	4692.6	4671.0	4735.6	4701.1	4739.9
7.5°	4800.2	4804.5	4808.8	4821.8	4808.8	4873.4	4834.6	4869.1
10°	4933.6	4942.2	4942.2	4963.8	4950.9	5011.1	4985.4	5028.4
12.5°	5058.5	5067.1	5075.8	5088.6	5080.0	5144.6	5123.1	5157.5
15°	5157.5	5174.8	5179.0	5196.2	5187.6	5256.5	5230.8	5265.1
17.5°	5204.9	5222.1	5222.1	5243.6	5235.0	5308.2	5273.8	5312.5
20°	5179.0	5192.0	5196.2	5217.8	5209.1	5282.4	5247.9	5295.2
22.5°	5097.2	5101.5	5105.9	5127.4	5123.1	5187.6	5157.5	5187.6
25°	4946.6	4959.5	4955.1	4972.4	4972.4	5024.0	4989.6	5015.5
27.5°	4731.4	4744.2	4744.2	4765.8	4748.5	4800.2	4765.8	4804.5
30°	4468.8	4481.6	4473.0	4490.2	4473.0	4524.6	4498.9	4511.8
32.5°	4154.4	4154.4	4158.8	4163.0	4154.4	4201.8	4176.0	4201.8
35°	3779.9	3788.5	3792.8	3797.1	3788.5	3822.9	3792.8	3810.0
37.5°	3358.0	3379.5	3375.2	3379.5	3366.6	3409.6	3383.9	3392.4
40°	2906.0	2906.0	2901.6	2910.2	2897.4	2931.8	2914.5	2923.1
42.5°	2380.8	2393.6	2376.4	2398.0	2363.5	2410.9	2393.6	2380.8
45°	1786.6	1769.4	1765.1	1769.4	1756.5	1760.8	1773.8	1765.1
47.5°	1218.4	1218.4	1209.8	1196.9	1214.0	1218.4	1201.1	1201.1
50°	818.0	818.0	809.4	805.0	813.6	809.4	800.8	813.6
52.5°	520.9	503.8	503.8	512.2	503.8	495.1	508.0	499.4
55°	284.1	275.5	275.5	284.1	275.5	275.5	271.2	279.9
57.5°	137.8	142.1	137.8	137.8	137.8	137.8	133.5	137.8
60°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
62.5°	25.9	25.9	21.5	21.5	21.5	21.5	21.5	21.5
65°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
67.5°	12.9	12.9	12.9	12.9	12.9	17.2	12.9	12.9
70°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
72.5°	12.9	12.9	17.2	17.2	17.2	17.2	17.2	17.2
75°	8.6	8.6	8.6	4.2	4.2	4.2	4.2	4.2
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)