

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: P252209

Luminaire Tested: **LE\_6B60D010R EC6B60708040 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252209  
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 EC6B60708040 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: 9842.5 lumens  
Efficiency: N/A  
Efficacy: 157.5 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

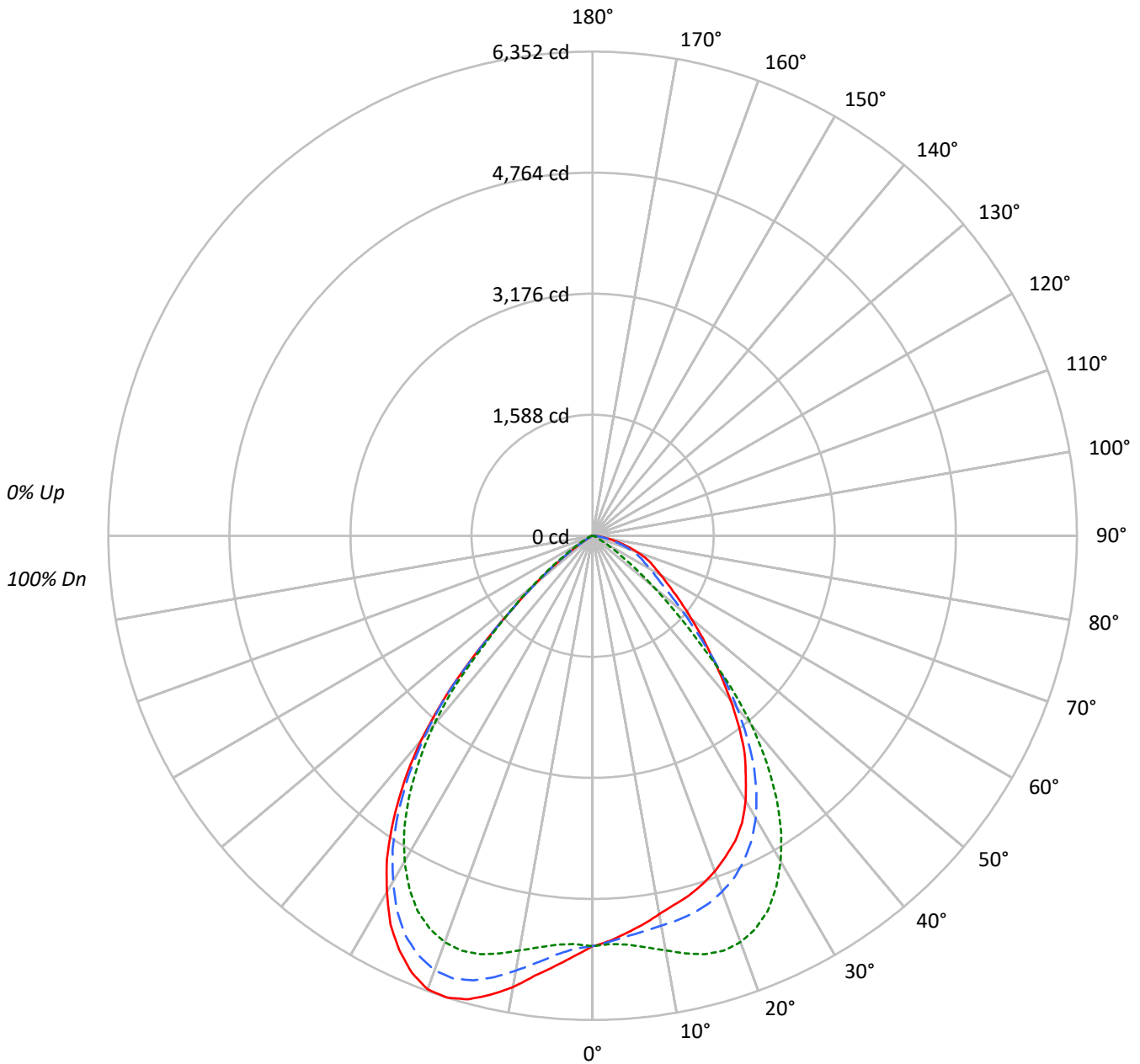
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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°	351295	351295	351295
5°	342184	352637	371183
10°	333872	365922	398317
15°	329957	383855	425231
20°	325234	393856	439609
25°	318318	390951	431709
30°	302479	371514	406416
35°	276747	334967	362851
40°	239383	276635	297688
45°	201865	181438	194733
50°	171377	105028	98756
55°	148720	50366	38059
60°	134343	23500	9408
65°	130321	13508	3180
70°	116854	10796	2957
75°	96039	7789	1286
80°	71572	3832	0
85°	61681	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.1	5.3
10°-20°	1585.1	16.1
20°-30°	2421.9	24.6
30°-40°	2533.1	25.7
40°-50°	1643.2	16.7
50°-60°	652.4	6.6
60°-70°	309.5	3.1
70°-80°	147.2	1.5
80°-90°	30.0	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°	4527.1	46.0
0°-40°	7060.1	71.7
0°-60°	9355.8	95.1
0°-90°	9842.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9842.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5385	5385	5385	5385	5385	
5°	5225	5271	5385	5518	5668	493
15°	4885	5122	5683	6038	6296	1377
25°	4422	4700	5431	5796	5997	2025
35°	3475	3686	4206	4453	4556	2149
45°	2188	2167	1966	2085	2111	1702
55°	1308	1112	443	345	335	1185
65°	844	700	88	21	21	825
75°	381	309	31	10	5	411
85°	82	52	0	0	0	96
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°	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6
2.5°	5317.8	5328.0	5271.4	5255.9	5297.1	5312.5	5317.8	5302.2	5307.4	5328.0	5328.0
5°	5225.0	5235.4	5183.9	5168.4	5209.6	5219.9	5235.4	5230.2	5245.6	5276.5	5271.4
7.5°	5137.5	5153.0	5096.4	5075.8	5127.2	5153.0	5163.2	5163.2	5183.9	5225.0	5230.2
10°	5039.8	5060.2	5008.9	4998.5	5055.1	5080.9	5086.0	5096.4	5127.2	5183.9	5194.1
12.5°	4957.4	4978.0	4941.9	4926.5	4988.2	5014.0	5024.2	5044.9	5080.9	5153.0	5163.2
15°	4885.2	4900.8	4859.5	4849.2	4911.0	4941.9	4947.0	4978.0	5024.2	5106.6	5122.1
17.5°	4792.6	4802.9	4772.0	4761.8	4823.5	4854.4	4859.5	4895.6	4952.2	5034.6	5060.2
20°	4684.5	4694.9	4663.9	4653.6	4715.4	4751.5	4756.6	4787.5	4854.4	4941.9	4967.6
22.5°	4555.9	4576.4	4540.4	4530.1	4591.9	4622.8	4638.2	4663.9	4730.9	4818.4	4854.4
25°	4422.0	4422.0	4396.2	4391.1	4447.8	4483.8	4478.6	4514.6	4581.6	4669.1	4700.0
27.5°	4247.0	4241.8	4216.1	4210.9	4272.8	4303.6	4293.2	4329.4	4391.1	4478.6	4509.5
30°	4015.2	4025.6	3989.6	3979.2	4030.8	4082.2	4077.1	4113.1	4174.9	4257.2	4277.9
32.5°	3737.4	3747.6	3742.5	3727.0	3773.4	3799.1	3814.5	3840.2	3891.8	3979.2	3999.9
35°	3474.8	3459.4	3438.8	3438.8	3485.1	3526.2	3510.9	3541.8	3593.1	3680.8	3685.9
37.5°	3150.5	3145.4	3135.0	3124.8	3176.2	3186.5	3191.6	3212.2	3258.6	3330.6	3320.4
40°	2810.8	2815.9	2810.8	2790.1	2821.0	2862.2	2857.0	2867.4	2908.5	2960.0	2944.5
42.5°	2491.5	2491.5	2491.5	2471.0	2507.0	2527.6	2537.9	2532.8	2543.0	2589.4	2568.8
45°	2187.9	2193.0	2187.9	2182.6	2187.9	2198.1	2187.9	2182.6	2182.6	2198.1	2167.2
47.5°	1925.2	1925.2	1909.9	1894.4	1909.9	1915.0	1899.5	1884.1	1879.0	1873.8	1822.4
50°	1688.5	1683.4	1678.2	1652.5	1667.9	1673.0	1652.5	1642.1	1621.6	1595.9	1534.0
52.5°	1482.6	1477.4	1472.2	1446.5	1456.9	1462.0	1441.4	1420.8	1395.0	1374.5	1297.2
55°	1307.5	1302.4	1302.4	1287.0	1276.6	1287.0	1266.4	1250.9	1214.9	1189.1	1111.9
57.5°	1158.2	1158.2	1148.0	1132.5	1137.6	1137.6	1117.1	1096.5	1065.6	1034.8	973.0
60°	1029.6	1029.6	1029.6	1014.1	1014.1	1014.1	1003.9	983.2	957.5	926.6	864.9
62.5°	926.6	926.6	921.5	906.0	911.1	911.1	900.9	880.2	854.5	834.0	772.1
65°	844.2	844.2	844.2	828.8	828.8	834.0	823.6	803.0	782.5	756.8	700.1
67.5°	741.2	736.1	736.1	725.9	731.0	736.1	725.9	710.4	684.6	669.2	617.8
70°	612.6	617.8	622.9	607.5	612.6	612.6	607.5	592.0	576.5	561.1	514.8
72.5°	499.4	499.4	494.2	489.0	489.0	494.2	483.9	468.5	458.1	447.9	411.9
75°	381.0	375.8	381.0	370.6	370.6	370.6	360.4	355.2	350.0	334.6	308.9
77.5°	278.0	272.9	272.9	262.5	267.6	267.6	262.5	252.2	242.0	236.8	216.2
80°	190.5	190.5	190.5	185.4	185.4	180.1	180.1	175.0	164.8	159.6	149.2
82.5°	128.8	128.8	128.8	123.5	123.5	123.5	118.4	113.2	108.1	103.0	92.6
85°	82.4	82.4	82.4	77.2	77.2	77.2	72.1	72.1	66.9	61.8	51.5
87.5°	46.4	46.4	46.4	41.1	41.1	41.1	41.1	41.1	36.0	30.9	25.8
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°	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6
2.5°	5364.0	5292.0	5338.2	5338.2	5322.9	5364.0	5389.8	5410.4	5405.2	5358.9	5353.8
5°	5322.9	5261.1	5312.5	5317.8	5302.2	5358.9	5394.9	5420.6	5425.8	5384.6	5389.8
7.5°	5292.0	5240.5	5307.4	5328.0	5322.9	5374.4	5415.5	5456.8	5477.2	5446.4	5451.5
10°	5276.5	5235.4	5307.4	5338.2	5343.5	5400.1	5461.9	5518.5	5544.2	5523.6	5539.0
12.5°	5255.9	5230.2	5312.5	5358.9	5379.5	5436.1	5513.4	5580.2	5621.4	5611.1	5642.0
15°	5235.4	5214.8	5312.5	5379.5	5405.2	5456.8	5544.2	5642.0	5688.4	5683.2	5724.4
17.5°	5183.9	5178.8	5281.6	5353.8	5389.8	5451.5	5533.9	5652.2	5698.6	5708.9	5760.4
20°	5101.5	5101.5	5214.8	5292.0	5333.1	5389.8	5492.8	5606.0	5662.6	5672.9	5729.5
22.5°	4988.2	4998.5	5106.6	5183.9	5245.6	5286.9	5394.9	5513.4	5564.8	5580.2	5642.0
25°	4839.0	4849.2	4952.2	5029.4	5096.4	5142.6	5245.6	5353.8	5415.5	5431.0	5477.2
27.5°	4643.4	4663.9	4761.8	4839.0	4895.6	4926.5	5034.6	5147.9	5194.1	5209.6	5255.9
30°	4416.9	4422.0	4519.8	4586.8	4643.4	4669.1	4761.8	4880.1	4916.1	4931.6	4998.5
32.5°	4138.9	4133.8	4226.4	4288.1	4334.5	4365.4	4463.1	4540.4	4576.4	4602.1	4638.2
35°	3804.2	3799.1	3866.0	3938.1	3974.1	3984.4	4082.2	4164.6	4185.1	4205.8	4252.1
37.5°	3428.5	3428.5	3485.1	3521.1	3562.2	3577.8	3624.1	3716.8	3752.8	3747.6	3783.6
40°	3032.1	3011.5	3052.6	3088.8	3099.0	3104.1	3150.5	3222.5	3248.2	3248.2	3274.0
42.5°	2615.1	2584.2	2589.4	2610.0	2620.2	2584.2	2615.1	2661.4	2646.0	2666.6	2671.8
45°	2172.4	2126.0	2105.5	2059.1	2069.4	2033.4	2012.8	2023.1	2018.0	1966.5	1976.8
47.5°	1812.0	1729.6	1693.6	1626.8	1611.2	1570.1	1544.4	1498.0	1456.9	1456.9	1431.1
50°	1508.4	1426.0	1353.9	1276.6	1250.9	1214.9	1158.2	1096.5	1065.6	1034.8	1009.0
52.5°	1266.4	1178.9	1091.4	1009.0	973.0	926.6	849.4	787.6	731.0	700.1	669.2
55°	1070.8	973.0	880.2	792.8	746.4	700.1	622.9	550.9	483.9	442.8	417.0
57.5°	921.5	828.8	731.0	638.4	597.1	545.6	463.2	386.1	324.4	278.0	252.2
60°	813.4	720.8	633.1	535.4	494.2	442.8	355.2	283.1	221.4	180.1	149.2
62.5°	720.8	638.4	545.6	458.1	417.0	365.5	283.1	211.0	154.4	113.2	87.5
65°	653.8	571.4	494.2	406.6	370.6	319.1	242.0	175.0	123.5	87.5	61.8
67.5°	576.5	504.5	427.2	355.2	319.1	278.0	205.9	149.2	103.0	72.1	51.5
70°	483.9	427.2	360.4	293.4	267.6	231.6	169.9	123.5	82.4	56.6	41.1
72.5°	386.1	339.8	288.2	236.8	216.2	180.1	139.0	97.8	61.8	41.1	30.9
75°	293.4	257.4	216.2	180.1	159.6	139.0	103.0	72.1	46.4	30.9	20.6
77.5°	200.8	185.4	154.4	123.5	113.2	97.8	66.9	46.4	30.9	20.6	10.2
80°	139.0	123.5	103.0	82.4	72.1	61.8	41.1	30.9	15.5	10.2	5.1
82.5°	87.5	72.1	61.8	51.5	46.4	36.0	25.8	15.5	10.2	5.1	5.1
85°	46.4	41.1	36.0	25.8	25.8	20.6	15.5	10.2	5.1	0.0	0.0
87.5°	25.8	20.6	15.5	10.2	10.2	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	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°	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6
2.5°	5415.5	5415.5	5410.4	5472.1	5400.1	5472.1	5436.1	5472.1	5420.6	5415.5	5420.6
5°	5456.8	5472.1	5477.2	5533.9	5467.0	5554.5	5523.6	5554.5	5518.5	5528.8	5544.2
7.5°	5539.0	5564.8	5559.6	5631.8	5564.8	5662.6	5642.0	5688.4	5652.2	5662.6	5683.2
10°	5631.8	5662.6	5667.8	5739.9	5678.0	5796.5	5770.8	5822.2	5791.2	5806.8	5832.5
12.5°	5739.9	5775.9	5781.0	5863.4	5796.5	5920.0	5904.5	5956.0	5930.2	5945.8	5976.6
15°	5822.2	5873.6	5884.0	5966.4	5894.2	6023.0	6012.6	6079.6	6038.4	6064.1	6089.9
17.5°	5863.4	5909.8	5930.2	6007.5	5945.8	6074.4	6064.1	6120.8	6089.9	6115.6	6146.5
20°	5837.6	5894.2	5909.8	5986.9	5925.1	6053.9	6038.4	6095.0	6064.1	6084.8	6115.6
22.5°	5745.0	5801.6	5822.2	5894.2	5837.6	5956.0	5950.9	6002.4	5961.1	5986.9	6012.6
25°	5580.2	5642.0	5652.2	5719.2	5657.5	5781.0	5770.8	5827.4	5796.5	5811.9	5847.9
27.5°	5343.5	5415.5	5431.0	5487.6	5441.2	5544.2	5544.2	5590.5	5554.5	5554.5	5590.5
30°	5060.2	5132.4	5142.6	5189.0	5147.9	5240.5	5245.6	5292.0	5235.4	5266.2	5271.4
32.5°	4715.4	4761.8	4792.6	4833.8	4772.0	4890.4	4875.0	4911.0	4880.1	4880.1	4905.9
35°	4298.4	4355.0	4370.5	4422.0	4370.5	4463.1	4463.1	4483.8	4452.9	4452.9	4494.0
37.5°	3845.4	3886.6	3891.8	3943.2	3902.0	3979.2	3974.1	3989.6	3958.6	3979.2	3979.2
40°	3315.2	3346.1	3356.4	3382.1	3377.0	3433.6	3428.5	3438.8	3423.2	3428.5	3438.8
42.5°	2697.5	2738.6	2759.2	2779.9	2749.0	2826.1	2810.8	2826.1	2821.0	2826.1	2841.6
45°	1987.0	2018.0	2033.4	2038.5	2028.2	2074.6	2110.6	2079.8	2084.9	2074.6	2095.1
47.5°	1436.2	1441.4	1431.1	1462.0	1436.2	1456.9	1467.1	1472.2	1441.4	1436.2	1456.9
50°	983.2	1009.0	973.0	988.4	983.2	1003.9	993.5	998.6	967.8	983.2	973.0
52.5°	653.8	648.6	638.4	643.5	633.1	633.1	633.1	643.5	622.9	612.6	602.2
55°	396.4	386.1	365.5	360.4	360.4	365.5	355.2	344.9	344.9	339.8	339.8
57.5°	231.6	216.2	205.9	200.8	190.5	185.4	180.1	180.1	169.9	169.9	169.9
60°	128.8	113.2	103.0	92.6	92.6	87.5	82.4	77.2	77.2	77.2	72.1
62.5°	66.9	56.6	46.4	41.1	41.1	36.0	30.9	30.9	30.9	30.9	25.8
65°	46.4	36.0	30.9	25.8	25.8	20.6	20.6	20.6	20.6	20.6	20.6
67.5°	36.0	30.9	25.8	20.6	20.6	20.6	15.5	15.5	15.5	15.5	15.5
70°	30.9	20.6	20.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
72.5°	20.6	20.6	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
75°	15.5	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0
80°	5.1	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: P252209

CATALOG NUMBER: LE\_6B60D010R EC6B60708040 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6
2.5°	5467.0	5461.9	5467.0	5477.2	5456.8	5518.5	5487.6	5518.5
5°	5585.4	5590.5	5595.6	5611.1	5585.4	5662.6	5621.4	5667.8
7.5°	5739.9	5745.0	5750.1	5765.6	5750.1	5827.4	5781.0	5822.2
10°	5899.4	5909.8	5909.8	5935.5	5920.0	5992.1	5961.1	6012.6
12.5°	6048.8	6059.0	6069.2	6084.8	6074.4	6151.6	6125.9	6167.1
15°	6167.1	6187.6	6192.9	6213.4	6203.1	6285.5	6254.6	6295.8
17.5°	6223.8	6244.2	6244.2	6270.0	6259.8	6347.2	6306.1	6352.4
20°	6192.9	6208.2	6213.4	6239.1	6228.9	6316.4	6275.2	6331.9
22.5°	6095.0	6100.1	6105.4	6131.0	6125.9	6203.1	6167.1	6203.1
25°	5914.9	5930.2	5925.1	5945.8	5945.8	6007.5	5966.4	5997.2
27.5°	5657.5	5672.9	5672.9	5698.6	5678.0	5739.9	5698.6	5745.0
30°	5343.5	5358.9	5348.6	5369.1	5348.6	5410.4	5379.5	5394.9
32.5°	4967.6	4967.6	4972.8	4978.0	4967.6	5024.2	4993.4	5024.2
35°	4519.8	4530.1	4535.2	4540.4	4530.1	4571.2	4535.2	4555.9
37.5°	4015.2	4041.0	4035.9	4041.0	4025.6	4077.1	4046.2	4056.5
40°	3474.8	3474.8	3469.6	3479.9	3464.5	3505.6	3485.1	3495.4
42.5°	2846.8	2862.2	2841.6	2867.4	2826.1	2882.8	2862.2	2846.8
45°	2136.4	2115.8	2110.6	2115.8	2100.2	2105.5	2120.9	2110.6
47.5°	1456.9	1456.9	1446.5	1431.1	1451.6	1456.9	1436.2	1436.2
50°	978.1	978.1	967.8	962.6	973.0	967.8	957.5	973.0
52.5°	622.9	602.2	602.2	612.6	602.2	592.0	607.5	597.1
55°	339.8	329.5	329.5	339.8	329.5	329.5	324.4	334.6
57.5°	164.8	169.9	164.8	164.8	164.8	164.8	159.6	164.8
60°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
62.5°	30.9	30.9	25.8	25.8	25.8	25.8	25.8	25.8
65°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
67.5°	15.5	15.5	15.5	15.5	15.5	20.6	15.5	15.5
70°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
72.5°	15.5	15.5	20.6	20.6	20.6	20.6	20.6	20.6
75°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	5.1
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)