

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: P252624

Luminaire Tested: **LE\_6B60D010R EC6B60708035 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252624  
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\_6B60D010R EC6B60708035 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7631.2 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

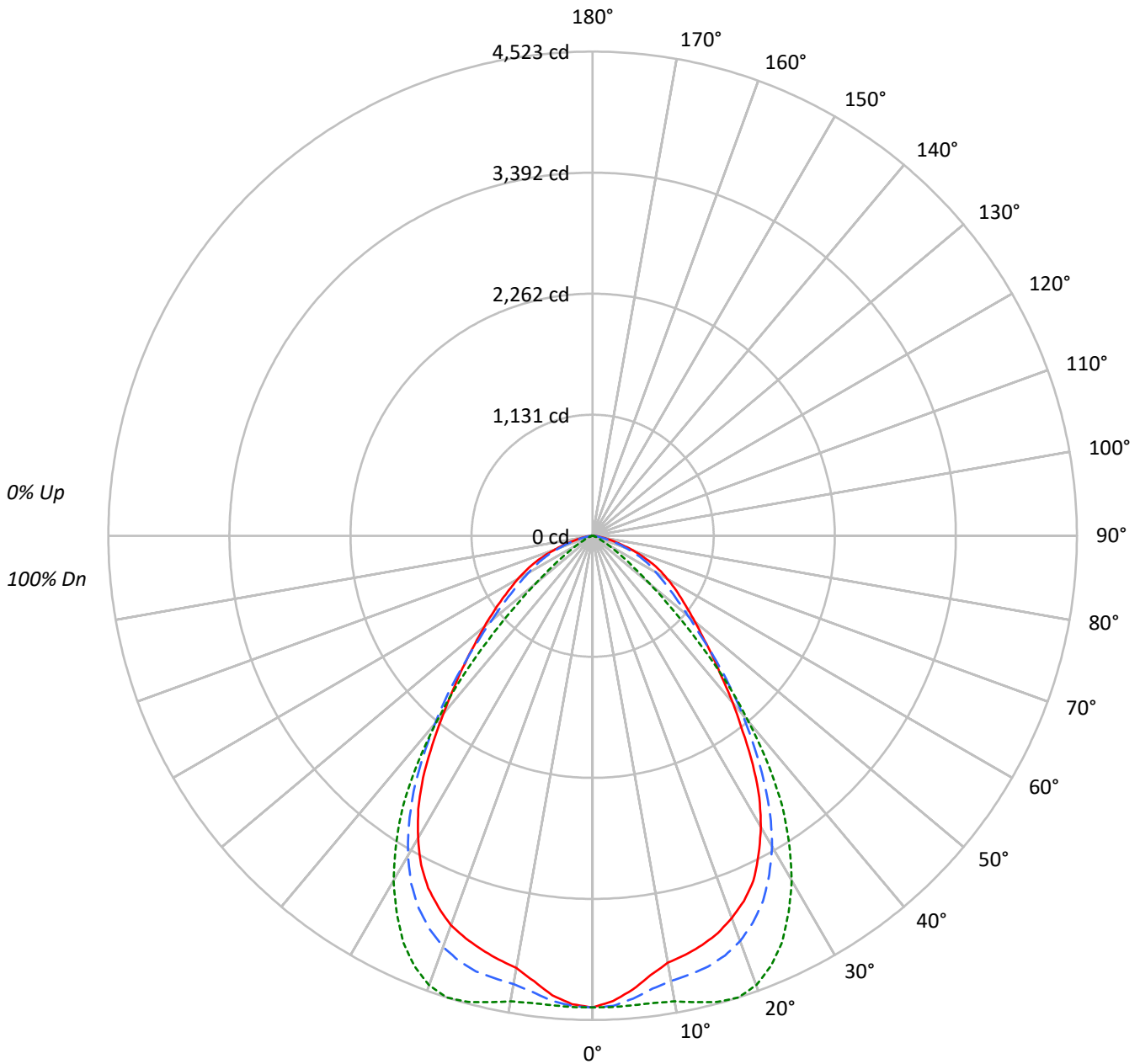
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	287444	287444	287444
5°	278869	288208	282202
10°	268261	292554	271626
15°	267304	304466	270405
20°	263811	310133	268761
25°	255921	301394	261421
30°	236758	280105	245579
35°	207704	246244	219881
40°	173091	193036	184366
45°	145685	127361	155557
50°	126150	69789	133894
55°	114130	37080	117031
60°	105011	19285	105011
65°	95155	10219	92778
70°	76758	5818	70940
75°	52658	3831	48776
80°	34415	1916	30620
85°	22831	3818	19088



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.8	5.4
10°-20°	1188.0	15.6
20°-30°	1755.3	23.0
30°-40°	1773.0	23.2
40°-50°	1222.0	16.0
50°-60°	701.9	9.2
60°-70°	408.5	5.4
70°-80°	149.0	2.0
80°-90°	22.8	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°	3354.1	44.0
0°-40°	5127.1	67.2
0°-60°	7050.9	92.4
0°-90°	7631.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7631.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4406	4406	4406	4406	4406	
5°	4258	4340	4401	4360	4309	399
15°	3958	4166	4508	4212	4004	1115
25°	3555	3764	4187	3840	3632	1620
35°	2608	2786	3092	2914	2761	1619
45°	1579	1599	1380	1701	1686	1228
55°	1003	881	326	917	1029	903
65°	616	520	66	514	601	603
75°	209	168	15	163	194	235
85°	30	15	5	20	26	39
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°	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9
2.5°	4349.9	4355.0	4360.0	4355.0	4360.0	4380.4	4365.1	4375.4	4375.4	4380.4	4395.8
5°	4258.2	4258.2	4268.4	4263.2	4278.6	4298.9	4283.6	4298.9	4304.0	4314.2	4339.6
7.5°	4141.0	4141.0	4146.1	4146.1	4166.5	4186.9	4176.8	4197.1	4217.5	4237.9	4268.4
10°	4049.4	4059.5	4059.5	4064.6	4085.0	4110.5	4105.4	4130.9	4151.2	4181.8	4222.5
12.5°	4008.6	4013.8	4013.8	4023.9	4044.2	4069.8	4064.6	4090.1	4120.6	4156.4	4197.1
15°	3957.6	3967.9	3962.8	3973.0	3993.4	4018.8	4013.8	4039.1	4074.9	4110.5	4166.5
17.5°	3891.5	3896.5	3901.6	3901.6	3922.0	3942.4	3942.4	3967.9	4008.6	4049.4	4110.5
20°	3799.8	3810.0	3810.0	3815.0	3830.4	3860.9	3855.8	3881.2	3922.0	3962.8	4029.0
22.5°	3692.8	3697.9	3697.9	3703.0	3728.5	3743.8	3748.9	3769.2	3804.9	3850.8	3911.9
25°	3555.2	3560.4	3555.2	3570.5	3580.8	3611.2	3601.1	3626.6	3667.4	3703.0	3764.1
27.5°	3356.6	3366.9	3366.9	3371.9	3397.4	3422.9	3422.9	3448.4	3484.0	3509.5	3570.5
30°	3142.8	3158.0	3142.8	3168.1	3178.4	3198.8	3214.0	3229.2	3259.9	3295.5	3351.5
32.5°	2898.2	2893.1	2898.2	2908.4	2939.0	2954.2	2964.4	2979.8	3010.2	3040.9	3086.6
35°	2607.9	2618.1	2623.1	2643.5	2643.5	2669.0	2674.1	2684.2	2730.1	2750.5	2786.1
37.5°	2302.2	2312.5	2317.5	2327.8	2348.1	2358.2	2373.6	2388.9	2419.4	2455.1	2475.5
40°	2032.4	2032.4	2037.4	2047.6	2062.9	2068.0	2083.2	2103.6	2124.0	2154.5	2174.9
42.5°	1777.6	1782.8	1777.6	1787.9	1803.1	1823.5	1818.4	1843.9	1849.0	1869.4	1884.6
45°	1579.0	1579.0	1568.8	1579.0	1579.0	1599.4	1594.2	1604.5	1599.4	1609.5	1599.4
47.5°	1390.5	1395.6	1390.5	1395.6	1395.6	1395.6	1400.8	1390.5	1395.6	1380.4	1349.8
50°	1242.9	1247.9	1237.8	1242.9	1237.8	1232.6	1237.8	1222.5	1217.4	1197.0	1166.4
52.5°	1115.5	1110.4	1105.2	1105.2	1105.2	1100.2	1095.1	1079.9	1064.5	1044.1	1008.5
55°	1003.4	998.4	993.2	993.2	983.0	978.0	978.0	962.6	947.4	921.9	881.1
57.5°	901.5	896.5	891.4	891.4	886.2	876.1	876.1	860.8	840.4	809.9	774.2
60°	804.8	804.8	804.8	799.6	799.6	789.5	789.5	774.2	753.9	723.2	682.5
62.5°	718.1	713.1	713.1	713.1	713.1	708.0	702.9	692.8	672.4	641.8	606.1
65°	616.4	616.4	616.4	616.4	611.2	611.2	611.2	596.0	585.8	555.2	519.5
67.5°	504.2	504.2	504.2	504.2	499.1	504.2	504.2	494.1	483.9	453.4	422.8
70°	402.4	397.2	392.2	397.2	392.2	392.2	397.2	387.1	382.0	356.5	326.0
72.5°	295.4	300.5	295.4	295.4	295.4	290.4	295.4	290.4	280.1	259.8	239.4
75°	208.9	213.9	213.9	208.9	208.9	208.9	203.8	203.8	193.5	178.2	168.1
77.5°	142.6	142.6	142.6	142.6	137.5	137.5	137.5	132.4	127.4	117.1	107.0
80°	91.6	91.6	91.6	91.6	86.6	86.6	86.6	81.5	81.5	71.2	61.1
82.5°	56.0	56.0	56.0	56.0	56.0	56.0	50.9	50.9	45.9	40.8	35.6
85°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	25.5	25.5	20.4	15.2
87.5°	10.1	10.1	15.2	15.2	15.2	15.2	15.2	15.2	10.1	10.1	10.1
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9
2.5°	4385.5	4390.6	4390.6	4390.6	4405.9	4411.0	4395.8	4380.4	4411.0	4405.9	4416.1
5°	4334.6	4349.9	4360.0	4365.1	4380.4	4390.6	4375.4	4370.2	4395.8	4400.8	4405.9
7.5°	4273.5	4298.9	4324.4	4334.6	4355.0	4365.1	4360.0	4360.0	4390.6	4400.8	4400.8
10°	4232.8	4268.4	4298.9	4324.4	4349.9	4365.1	4365.1	4370.2	4405.9	4416.1	4426.2
12.5°	4222.5	4268.4	4309.1	4344.8	4365.1	4390.6	4395.8	4411.0	4446.6	4461.9	4461.9
15°	4197.1	4258.2	4309.1	4355.0	4385.5	4416.1	4426.2	4456.9	4497.6	4507.8	4518.0
17.5°	4151.2	4212.4	4273.5	4329.5	4370.2	4395.8	4426.2	4456.9	4507.8	4523.0	4528.1
20°	4069.8	4141.0	4202.1	4258.2	4298.9	4334.6	4365.1	4400.8	4446.6	4467.0	4472.1
22.5°	3947.5	4018.8	4079.9	4141.0	4181.8	4212.4	4242.9	4283.6	4329.5	4349.9	4349.9
25°	3799.8	3866.0	3932.2	3978.0	4018.8	4054.5	4069.8	4115.6	4161.4	4186.9	4186.9
27.5°	3611.2	3672.4	3733.5	3784.5	3810.0	3840.5	3866.0	3906.8	3942.4	3962.8	3983.1
30°	3371.9	3433.0	3489.1	3540.0	3570.5	3601.1	3626.6	3657.1	3692.8	3718.2	3723.4
32.5°	3112.1	3163.1	3219.1	3270.0	3300.6	3310.8	3336.2	3366.9	3397.4	3417.8	3422.9
35°	2826.9	2862.5	2898.2	2944.0	2974.6	2974.6	3000.1	3020.5	3045.9	3091.8	3081.6
37.5°	2490.8	2541.6	2567.1	2582.4	2602.8	2623.1	2628.2	2653.8	2684.2	2694.5	2709.8
40°	2174.9	2190.2	2205.5	2205.5	2225.9	2225.9	2225.9	2231.0	2261.5	2266.6	2287.0
42.5°	1859.1	1859.1	1843.9	1828.6	1833.6	1828.6	1803.1	1803.1	1818.4	1838.8	1838.8
45°	1563.8	1528.0	1482.2	1446.5	1421.1	1410.9	1380.4	1380.4	1375.2	1380.4	1400.8
47.5°	1314.1	1253.0	1176.6	1105.2	1079.9	1059.5	1013.6	993.2	983.0	988.1	998.4
50°	1105.2	1039.1	952.5	865.9	820.0	794.6	738.5	702.9	697.9	687.6	708.0
52.5°	952.5	871.0	779.2	677.5	631.6	590.9	529.8	499.1	478.8	478.8	483.9
55°	820.0	733.5	631.6	529.8	483.9	453.4	392.2	351.5	331.1	326.0	341.2
57.5°	708.0	626.5	524.6	422.8	376.9	341.2	280.1	244.5	229.2	219.0	224.1
60°	621.4	539.9	438.0	341.2	300.5	259.8	208.9	168.1	147.8	147.8	152.8
62.5°	539.9	463.5	371.9	280.1	244.5	208.9	152.8	117.1	101.9	96.8	101.9
65°	458.4	387.1	310.8	234.2	198.6	168.1	122.2	91.6	71.2	66.2	71.2
67.5°	371.9	315.8	249.6	188.5	157.9	132.4	91.6	66.2	50.9	45.9	50.9
70°	290.4	239.4	188.5	137.5	117.1	96.8	66.2	50.9	35.6	30.5	35.6
72.5°	208.9	173.1	132.4	96.8	81.5	66.2	45.9	35.6	25.5	20.4	25.5
75°	142.6	117.1	86.6	61.1	50.9	45.9	30.5	20.4	15.2	15.2	15.2
77.5°	91.6	71.2	56.0	40.8	30.5	25.5	15.2	10.1	10.1	10.1	10.1
80°	50.9	40.8	30.5	20.4	15.2	15.2	10.1	10.1	5.1	5.1	5.1
82.5°	30.5	20.4	15.2	10.1	10.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	15.2	10.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	5.1	5.1	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°	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9
2.5°	4395.8	4400.8	4385.5	4405.9	4390.6	4411.0	4411.0	4390.6	4395.8	4385.5	4405.9
5°	4385.5	4385.5	4375.4	4390.6	4370.2	4390.6	4385.5	4349.9	4360.0	4339.6	4360.0
7.5°	4385.5	4375.4	4360.0	4375.4	4349.9	4365.1	4344.8	4309.1	4298.9	4273.5	4273.5
10°	4400.8	4385.5	4365.1	4370.2	4344.8	4349.9	4319.2	4268.4	4253.1	4222.5	4212.4
12.5°	4436.5	4421.1	4390.6	4400.8	4365.1	4365.1	4324.4	4263.2	4232.8	4192.0	4181.8
15°	4487.4	4461.9	4426.2	4431.4	4395.8	4375.4	4324.4	4253.1	4212.4	4156.4	4141.0
17.5°	4497.6	4472.1	4426.2	4426.2	4380.4	4355.0	4293.9	4212.4	4161.4	4105.4	4074.9
20°	4441.5	4416.1	4365.1	4360.0	4319.2	4283.6	4217.5	4136.0	4085.0	4023.9	3998.4
22.5°	4324.4	4293.9	4248.0	4242.9	4202.1	4181.8	4110.5	4029.0	3978.0	3916.9	3896.5
25°	4151.2	4136.0	4090.1	4085.0	4049.4	4023.9	3962.8	3886.4	3840.5	3779.4	3759.0
27.5°	3947.5	3932.2	3886.4	3886.4	3845.6	3830.4	3774.2	3703.0	3667.4	3611.2	3585.9
30°	3703.0	3682.6	3657.1	3652.0	3616.4	3601.1	3550.2	3484.0	3448.4	3402.5	3392.2
32.5°	3412.6	3397.4	3382.1	3377.0	3341.4	3326.1	3290.4	3224.2	3193.6	3152.9	3137.6
35°	3076.5	3066.2	3051.0	3045.9	3030.6	3015.4	2979.8	2928.8	2913.5	2882.9	2867.6
37.5°	2689.4	2699.6	2689.4	2689.4	2674.1	2679.2	2648.6	2618.1	2602.8	2582.4	2572.2
40°	2271.8	2292.1	2307.4	2307.4	2302.2	2322.6	2317.5	2292.1	2287.0	2276.8	2271.8
42.5°	1849.0	1859.1	1889.8	1910.1	1905.0	1955.9	1961.0	1981.4	1996.6	1986.5	1991.6
45°	1405.9	1436.4	1477.1	1497.5	1523.0	1589.1	1624.9	1665.6	1701.2	1721.6	1716.5
47.5°	1013.6	1049.2	1095.1	1125.6	1171.5	1253.0	1344.8	1395.6	1446.5	1472.0	1497.5
50°	733.5	769.1	825.1	871.0	901.5	1013.6	1110.4	1176.6	1232.6	1268.2	1293.8
52.5°	514.5	555.2	616.4	657.1	702.9	809.9	921.9	998.4	1059.5	1105.2	1130.8
55°	356.5	402.4	458.4	499.1	550.1	662.1	769.1	850.6	916.9	957.6	988.1
57.5°	249.6	290.4	346.4	382.0	433.0	539.9	646.9	728.4	794.6	835.4	871.0
60°	168.1	208.9	264.9	300.5	341.2	448.2	545.0	631.6	692.8	733.5	769.1
62.5°	117.1	152.8	208.9	244.5	280.1	371.9	463.5	539.9	601.0	646.9	677.5
65°	91.6	122.2	168.1	198.6	234.2	310.8	387.1	453.4	514.5	560.2	580.6
67.5°	66.2	96.8	132.4	157.9	183.4	249.6	315.8	366.8	422.8	458.4	483.9
70°	45.9	66.2	96.8	117.1	137.5	188.5	239.4	285.2	326.0	351.5	371.9
72.5°	35.6	45.9	66.2	81.5	96.8	132.4	173.1	208.9	239.4	259.8	280.1
75°	20.4	30.5	45.9	56.0	66.2	91.6	117.1	142.6	163.0	178.2	188.5
77.5°	10.1	15.2	25.5	30.5	40.8	56.0	76.4	91.6	107.0	117.1	127.4
80°	10.1	10.1	15.2	15.2	20.4	30.5	40.8	50.9	61.1	71.2	76.4
82.5°	5.1	5.1	10.1	10.1	10.1	15.2	20.4	30.5	35.6	40.8	45.9
85°	5.1	5.1	5.1	5.1	5.1	10.1	10.1	15.2	20.4	25.5	25.5
87.5°	0.0	0.0	5.1	5.1	5.1	5.1	5.1	10.1	10.1	10.1	15.2
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: P252624

CATALOG NUMBER: LE\_6B60D010R EC6B60708035 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9	4405.9
2.5°	4390.6	4400.8	4395.8	4405.9	4390.6	4385.5	4395.8	4380.4
5°	4334.6	4339.6	4334.6	4334.6	4324.4	4314.2	4324.4	4309.1
7.5°	4248.0	4248.0	4232.8	4232.8	4212.4	4202.1	4202.1	4197.1
10°	4176.8	4161.4	4146.1	4151.2	4120.6	4110.5	4105.4	4100.2
12.5°	4141.0	4130.9	4105.4	4105.4	4074.9	4064.6	4059.5	4054.5
15°	4100.2	4079.9	4059.5	4054.5	4029.0	4018.8	4013.8	4003.5
17.5°	4029.0	4013.8	3988.2	3988.2	3962.8	3957.6	3947.5	3942.4
20°	3952.6	3932.2	3911.9	3911.9	3881.2	3881.2	3866.0	3871.1
22.5°	3845.6	3830.4	3810.0	3810.0	3784.5	3779.4	3764.1	3759.0
25°	3718.2	3697.9	3682.6	3677.5	3657.1	3647.0	3641.9	3631.6
27.5°	3550.2	3534.9	3519.6	3509.5	3484.0	3478.9	3463.6	3468.8
30°	3341.4	3331.1	3326.1	3315.9	3285.4	3275.1	3275.1	3259.9
32.5°	3112.1	3096.9	3086.6	3071.4	3045.9	3040.9	3025.5	3030.6
35°	2832.0	2811.6	2796.4	2801.5	2770.9	2765.8	2755.6	2760.8
37.5°	2541.6	2521.2	2500.9	2495.9	2470.4	2470.4	2455.1	2455.1
40°	2241.1	2220.8	2210.6	2210.6	2180.0	2185.1	2169.9	2164.8
42.5°	1971.2	1950.9	1945.8	1940.6	1925.4	1920.2	1905.0	1910.1
45°	1716.5	1711.4	1711.4	1701.2	1686.0	1680.9	1686.0	1686.0
47.5°	1492.4	1497.5	1492.4	1492.4	1482.2	1492.4	1482.2	1487.2
50°	1304.0	1314.1	1314.1	1314.1	1309.0	1314.1	1314.1	1319.2
52.5°	1146.0	1161.4	1156.2	1161.4	1156.2	1166.4	1161.4	1166.4
55°	1008.5	1018.8	1023.8	1028.9	1028.9	1028.9	1028.9	1028.9
57.5°	881.1	896.5	901.5	906.6	906.6	916.9	906.6	906.6
60°	779.2	794.6	799.6	804.8	804.8	809.9	799.6	804.8
62.5°	687.6	702.9	702.9	708.0	708.0	708.0	697.9	702.9
65°	596.0	601.0	606.1	606.1	601.0	601.0	596.0	601.0
67.5°	494.1	499.1	494.1	494.1	489.0	489.0	478.8	483.9
70°	382.0	382.0	387.1	382.0	376.9	382.0	376.9	371.9
72.5°	285.2	285.2	285.2	280.1	280.1	275.0	280.1	280.1
75°	193.5	193.5	198.6	198.6	198.6	198.6	193.5	193.5
77.5°	127.4	127.4	127.4	127.4	132.4	127.4	127.4	127.4
80°	81.5	81.5	86.6	86.6	81.5	81.5	81.5	81.5
82.5°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
85°	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
87.5°	15.2	15.2	15.2	15.2	15.2	15.2	10.1	10.1
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)