

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: P252312

Luminaire Tested: **LE\_6B60D010R EC6B60708035 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60708035 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7076.2 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

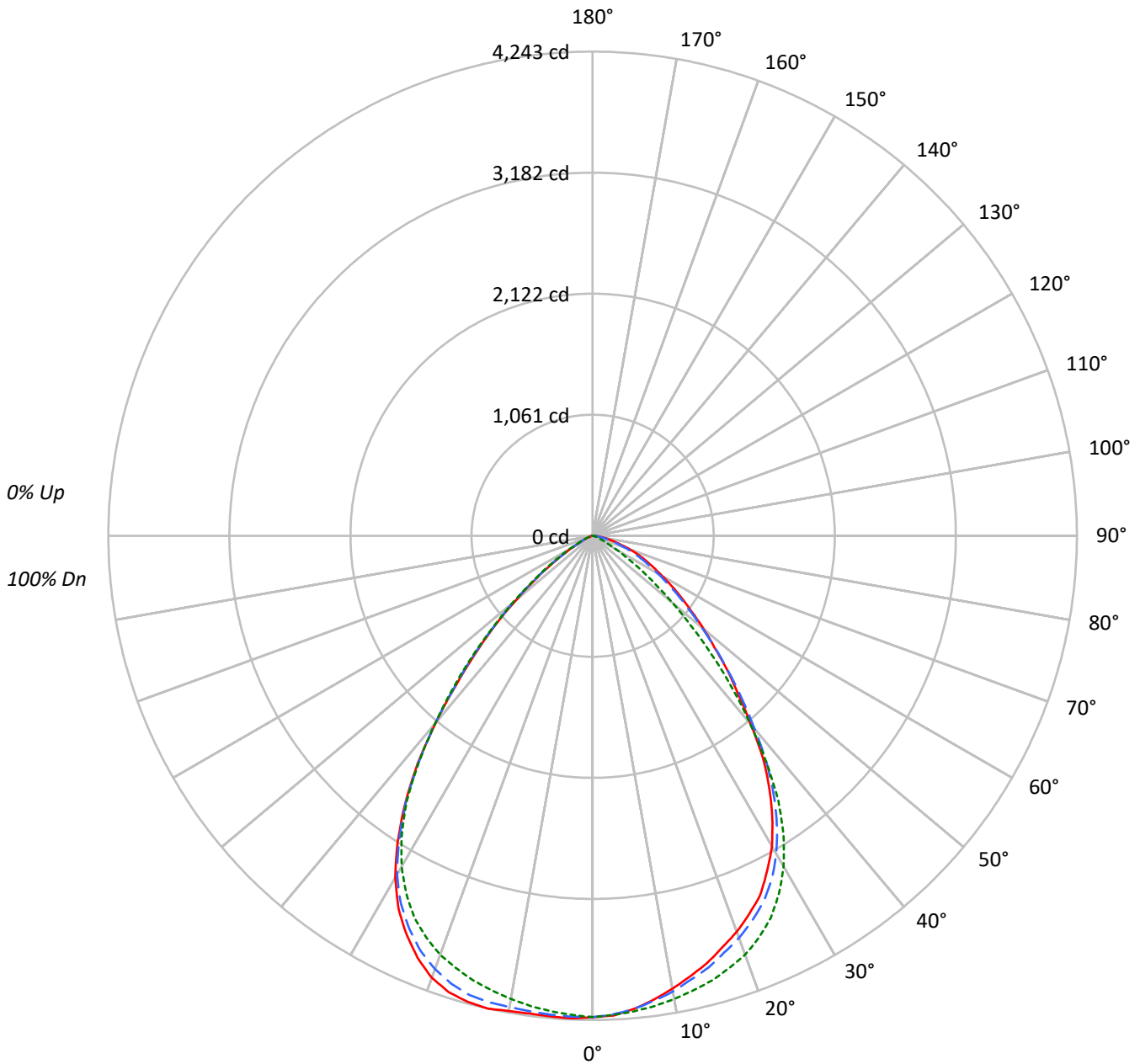
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	275178	275178	275178
5°	272562	273892	276898
10°	266936	273011	280099
15°	261834	272498	285575
20°	256410	271261	286118
25°	250083	265855	277589
30°	236773	252126	260571
35°	215031	225982	228013
40°	183515	182646	181777
45°	154164	136772	132537
50°	128738	92555	87896
55°	108352	56781	51571
60°	91728	29906	25914
65°	79425	15731	12581
70°	66076	9728	6791
75°	48801	6428	3831
80°	38284	3832	1916
85°	30541	3818	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.5	5.6
10°-20°	1138.2	16.1
20°-30°	1680.7	23.8
30°-40°	1732.1	24.5
40°-50°	1196.4	16.9
50°-60°	589.7	8.3
60°-70°	238.9	3.4
70°-80°	85.2	1.2
80°-90°	17.6	0.2
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°	3216.4	45.5
0°-40°	4948.5	69.9
0°-60°	6734.6	95.2
0°-90°	7076.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7076.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4218	4218	4218	4218	4218	
5°	4162	4162	4182	4213	4228	393
15°	3877	3917	4034	4167	4228	1091
25°	3474	3540	3693	3800	3856	1588
35°	2700	2766	2837	2853	2863	1673
45°	1671	1681	1482	1462	1436	1292
55°	953	917	499	469	453	861
65°	514	464	102	82	82	511
75°	194	163	26	15	15	217
85°	41	31	5	0	0	50
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°	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9
2.5°	4207.8	4192.4	4202.6	4182.2	4207.8	4182.2	4187.4	4192.4	4187.4	4192.4	4197.5
5°	4161.9	4146.6	4161.9	4136.4	4161.9	4146.6	4146.6	4151.6	4151.6	4156.8	4161.9
7.5°	4100.8	4085.4	4100.8	4075.2	4105.8	4090.5	4090.5	4100.8	4095.6	4100.8	4110.9
10°	4029.4	4009.0	4024.2	4009.0	4039.6	4019.2	4029.4	4029.4	4029.4	4044.6	4054.9
12.5°	3953.0	3932.6	3953.0	3927.5	3958.1	3942.8	3947.9	3963.1	3968.2	3978.5	3983.5
15°	3876.6	3851.1	3861.2	3846.0	3876.6	3861.2	3866.4	3886.8	3886.8	3902.0	3917.4
17.5°	3779.8	3759.4	3779.8	3759.4	3784.9	3774.8	3784.9	3800.1	3800.1	3815.5	3830.8
20°	3693.2	3672.9	3688.1	3672.9	3703.4	3688.1	3693.2	3713.6	3718.6	3734.0	3749.2
22.5°	3586.2	3570.9	3581.1	3565.9	3596.4	3586.2	3591.2	3611.6	3616.8	3627.0	3652.5
25°	3474.1	3443.6	3458.9	3448.6	3479.2	3464.0	3474.1	3494.5	3504.8	3520.0	3540.4
27.5°	3311.1	3295.9	3306.0	3306.0	3331.5	3316.2	3321.4	3341.8	3357.0	3372.2	3397.8
30°	3143.0	3117.6	3127.8	3132.9	3153.2	3143.0	3153.2	3173.6	3178.8	3199.1	3219.5
32.5°	2929.1	2918.9	2939.2	2929.1	2939.2	2939.2	2944.4	2959.6	2969.9	2980.0	3005.5
35°	2699.9	2679.5	2699.9	2689.6	2715.1	2699.9	2715.1	2730.4	2730.4	2750.8	2766.1
37.5°	2450.2	2424.8	2435.0	2435.0	2445.1	2440.0	2440.0	2465.5	2470.6	2485.9	2501.1
40°	2154.8	2144.6	2165.0	2159.9	2165.0	2165.0	2170.1	2185.4	2195.5	2200.6	2205.8
42.5°	1889.9	1895.0	1900.1	1900.1	1900.1	1900.1	1900.1	1920.5	1915.4	1930.6	1935.8
45°	1670.9	1650.5	1660.6	1655.6	1670.9	1655.6	1670.9	1686.1	1676.0	1691.2	1681.0
47.5°	1446.8	1446.8	1446.8	1441.6	1451.8	1446.8	1456.9	1462.0	1462.0	1462.0	1456.9
50°	1268.4	1253.1	1258.2	1258.2	1263.4	1258.2	1268.4	1273.5	1273.5	1263.4	1243.0
52.5°	1095.2	1090.1	1090.1	1100.4	1100.4	1095.2	1095.2	1095.2	1095.2	1080.0	1069.8
55°	952.6	942.4	947.5	947.5	947.5	947.5	952.6	947.5	947.5	932.2	916.9
57.5°	825.2	815.0	815.0	815.0	820.1	815.0	815.0	815.0	810.0	794.6	774.2
60°	703.0	697.9	703.0	703.0	708.1	703.0	703.0	703.0	692.8	677.5	657.1
62.5°	601.1	601.1	601.1	606.2	606.2	601.1	601.1	596.0	590.9	570.5	550.1
65°	514.5	509.4	514.5	514.5	519.6	519.6	514.5	509.4	504.2	483.9	463.5
67.5°	427.9	422.8	427.9	427.9	433.0	427.9	427.9	427.9	412.6	402.4	382.0
70°	346.4	341.2	341.2	341.2	346.4	336.2	341.2	341.2	331.1	315.9	295.5
72.5°	264.9	264.9	264.9	264.9	264.9	264.9	259.8	259.8	249.6	234.4	224.1
75°	193.6	193.6	198.6	198.6	193.6	193.6	193.6	188.5	183.4	173.2	163.0
77.5°	142.6	142.6	142.6	142.6	137.5	137.5	137.5	132.5	127.4	122.2	112.1
80°	101.9	101.9	101.9	96.8	101.9	96.8	96.8	96.8	86.6	81.5	76.4
82.5°	71.4	66.2	66.2	66.2	66.2	66.2	66.2	61.1	61.1	56.0	51.0
85°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	35.6	30.6	30.6
87.5°	20.4	25.5	25.5	25.5	25.5	25.5	25.5	20.4	20.4	20.4	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9
2.5°	4197.5	4197.5	4207.8	4192.4	4217.9	4202.6	4197.5	4223.0	4207.8	4202.6	4212.8
5°	4161.9	4167.0	4172.0	4161.9	4187.4	4172.0	4172.0	4197.5	4187.4	4182.2	4197.5
7.5°	4116.0	4121.1	4131.2	4126.1	4146.6	4136.4	4141.5	4167.0	4156.8	4156.8	4172.0
10°	4060.0	4070.1	4080.4	4080.4	4105.8	4095.6	4095.6	4126.1	4116.0	4121.1	4141.5
12.5°	3993.8	4009.0	4024.2	4029.4	4054.9	4039.6	4044.6	4080.4	4075.2	4080.4	4100.8
15°	3922.4	3942.8	3958.1	3958.1	3988.6	3973.4	3988.6	4024.2	4014.1	4034.5	4060.0
17.5°	3840.9	3861.2	3881.6	3886.8	3917.4	3907.1	3927.5	3963.1	3963.1	3973.4	4003.9
20°	3764.5	3790.0	3800.1	3815.5	3846.0	3840.9	3851.1	3891.9	3891.9	3907.1	3937.8
22.5°	3662.6	3688.1	3708.5	3723.8	3749.2	3749.2	3764.5	3800.1	3800.1	3810.4	3840.9
25°	3550.5	3581.1	3596.4	3611.6	3637.1	3632.1	3647.4	3677.9	3683.0	3693.2	3723.8
27.5°	3407.9	3433.4	3453.8	3464.0	3499.6	3479.2	3494.5	3530.1	3525.1	3535.2	3560.8
30°	3229.6	3255.1	3275.5	3275.5	3306.0	3306.0	3321.4	3336.6	3336.6	3346.8	3367.1
32.5°	3020.8	3051.4	3051.4	3066.6	3087.0	3066.6	3087.0	3107.4	3097.2	3112.5	3127.8
35°	2781.4	2796.6	2801.8	2801.8	2817.0	2811.9	2806.9	2822.1	2811.9	2837.4	2852.6
37.5°	2491.0	2511.4	2501.1	2511.4	2506.2	2491.0	2491.0	2516.5	2496.1	2501.1	2516.5
40°	2210.9	2210.9	2205.8	2180.2	2185.4	2170.1	2165.0	2170.1	2149.8	2144.6	2165.0
42.5°	1920.5	1915.4	1900.1	1864.4	1869.5	1844.0	1823.6	1823.6	1813.5	1808.4	1813.5
45°	1660.6	1645.4	1619.9	1579.1	1569.0	1548.6	1507.9	1497.6	1482.4	1482.4	1487.5
47.5°	1421.2	1400.9	1360.1	1314.2	1288.8	1263.4	1222.6	1207.2	1181.9	1171.6	1181.9
50°	1222.6	1186.9	1136.0	1069.8	1044.2	1013.8	973.0	947.5	922.0	911.9	906.8
52.5°	1039.2	988.2	937.2	855.8	835.4	804.9	748.9	723.4	697.9	677.5	677.5
55°	881.2	835.4	764.1	687.8	657.1	626.6	570.5	534.9	509.4	499.2	489.0
57.5°	738.6	687.8	621.5	540.0	509.4	478.9	422.8	387.1	361.6	346.4	336.2
60°	621.5	565.5	499.2	427.9	392.2	361.6	305.6	270.0	244.5	229.2	219.0
62.5°	509.4	463.5	397.4	331.1	300.5	270.0	224.1	188.5	163.0	152.9	137.5
65°	427.9	382.0	320.9	264.9	239.4	208.9	168.1	137.5	117.1	101.9	91.8
67.5°	346.4	310.8	259.8	208.9	183.4	163.0	127.4	101.9	81.5	71.4	66.2
70°	275.1	239.4	198.6	157.9	142.6	122.2	96.8	71.4	61.1	51.0	45.9
72.5°	203.8	178.2	147.8	117.1	101.9	91.8	66.2	56.0	40.8	35.6	30.6
75°	147.8	127.4	107.0	81.5	71.4	66.2	51.0	35.6	30.6	25.5	20.4
77.5°	101.9	91.8	71.4	56.0	51.0	45.9	35.6	25.5	20.4	15.2	15.2
80°	66.2	56.0	45.9	35.6	35.6	30.6	20.4	15.2	15.2	10.2	10.2
82.5°	40.8	35.6	30.6	25.5	20.4	20.4	15.2	10.2	10.2	5.1	5.1
85°	25.5	20.4	15.2	15.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1
87.5°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	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°	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9
2.5°	4212.8	4212.8	4223.0	4207.8	4217.9	4217.9	4228.1	4207.8	4217.9	4223.0	4233.1
5°	4192.4	4197.5	4207.8	4202.6	4207.8	4207.8	4217.9	4192.4	4212.8	4212.8	4228.1
7.5°	4172.0	4172.0	4182.2	4177.1	4187.4	4192.4	4202.6	4182.2	4202.6	4202.6	4217.9
10°	4146.6	4146.6	4161.9	4156.8	4172.0	4177.1	4192.4	4172.0	4192.4	4197.5	4212.8
12.5°	4110.9	4116.0	4131.2	4131.2	4146.6	4156.8	4172.0	4161.9	4187.4	4192.4	4212.8
15°	4070.1	4080.4	4100.8	4095.6	4110.9	4126.1	4146.6	4131.2	4167.0	4177.1	4197.5
17.5°	4019.2	4029.4	4044.6	4044.6	4060.0	4070.1	4095.6	4085.4	4116.0	4121.1	4146.6
20°	3942.8	3958.1	3978.5	3973.4	3988.6	3998.9	4019.2	4009.0	4039.6	4049.8	4075.2
22.5°	3851.1	3861.2	3876.6	3876.6	3891.9	3902.0	3922.4	3907.1	3937.8	3942.8	3963.1
25°	3728.9	3739.0	3749.2	3754.4	3769.6	3774.8	3784.9	3774.8	3800.1	3805.2	3830.8
27.5°	3570.9	3576.0	3591.2	3591.2	3601.5	3606.6	3621.9	3601.5	3637.1	3637.1	3652.5
30°	3382.5	3377.4	3397.8	3387.5	3397.8	3397.8	3413.0	3402.9	3428.2	3418.1	3433.4
32.5°	3132.9	3143.0	3143.0	3132.9	3153.2	3148.1	3148.1	3138.0	3153.2	3158.4	3168.5
35°	2842.5	2857.8	2857.8	2862.9	2868.0	2852.6	2857.8	2827.2	2852.6	2857.8	2862.9
37.5°	2526.6	2511.4	2521.5	2506.2	2531.8	2501.1	2501.1	2480.8	2501.1	2501.1	2506.2
40°	2165.0	2159.9	2170.1	2159.9	2154.8	2149.8	2139.5	2124.2	2144.6	2134.4	2149.8
42.5°	1823.6	1818.6	1818.6	1808.4	1803.2	1803.2	1793.1	1782.9	1777.9	1777.9	1803.2
45°	1472.1	1482.4	1472.1	1467.1	1477.2	1467.1	1472.1	1451.8	1462.0	1451.8	1462.0
47.5°	1176.8	1181.9	1171.6	1161.5	1176.8	1161.5	1161.5	1146.1	1166.5	1166.5	1156.4
50°	911.9	906.8	896.5	906.8	901.6	901.6	901.6	886.4	896.5	881.2	891.5
52.5°	672.4	667.4	667.4	662.2	667.4	662.2	662.2	657.1	657.1	652.0	657.1
55°	489.0	483.9	473.8	473.8	473.8	478.9	473.8	468.6	468.6	463.5	468.6
57.5°	331.1	320.9	320.9	320.9	320.9	315.9	315.9	310.8	315.9	310.8	315.9
60°	214.0	214.0	203.8	203.8	203.8	203.8	203.8	198.6	203.8	203.8	203.8
62.5°	132.5	132.5	127.4	122.2	127.4	122.2	122.2	122.2	127.4	122.2	127.4
65°	86.6	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
67.5°	61.1	56.0	56.0	56.0	56.0	56.0	56.0	51.0	56.0	56.0	56.0
70°	40.8	40.8	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
72.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
75°	20.4	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	15.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	10.2	10.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	5.1	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	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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: P252312

CATALOG NUMBER: LE\_6B60D010R EC6B60708035 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9	4217.9
2.5°	4217.9	4223.0	4212.8	4217.9	4207.8	4217.9	4223.0	4233.1
5°	4207.8	4212.8	4202.6	4212.8	4202.6	4212.8	4217.9	4228.1
7.5°	4197.5	4207.8	4197.5	4207.8	4197.5	4207.8	4212.8	4223.0
10°	4197.5	4212.8	4202.6	4217.9	4202.6	4212.8	4223.0	4228.1
12.5°	4197.5	4212.8	4207.8	4217.9	4212.8	4223.0	4233.1	4243.4
15°	4187.4	4202.6	4192.4	4207.8	4202.6	4207.8	4228.1	4228.1
17.5°	4131.2	4146.6	4146.6	4156.8	4156.8	4172.0	4182.2	4192.4
20°	4060.0	4075.2	4070.1	4085.4	4085.4	4100.8	4110.9	4121.1
22.5°	3953.0	3973.4	3968.2	3983.5	3978.5	3988.6	4009.0	4003.9
25°	3815.5	3840.9	3835.9	3846.0	3840.9	3840.9	3851.1	3856.2
27.5°	3647.4	3662.6	3657.5	3667.8	3657.5	3667.8	3677.9	3683.0
30°	3428.2	3438.5	3433.4	3438.5	3433.4	3443.6	3448.6	3458.9
32.5°	3163.4	3178.8	3163.4	3173.6	3168.5	3168.5	3188.9	3178.8
35°	2847.6	2852.6	2857.8	2857.8	2847.6	2852.6	2862.9	2862.9
37.5°	2496.1	2521.5	2491.0	2506.2	2501.1	2501.1	2501.1	2516.5
40°	2129.4	2134.4	2124.2	2124.2	2124.2	2119.1	2139.5	2134.4
42.5°	1782.9	1788.0	1782.9	1767.6	1772.8	1772.8	1788.0	1767.6
45°	1446.8	1456.9	1451.8	1451.8	1441.6	1441.6	1446.8	1436.5
47.5°	1146.1	1156.4	1141.1	1146.1	1136.0	1146.1	1141.1	1151.2
50°	871.1	881.2	876.1	881.2	881.2	871.1	886.4	866.0
52.5°	652.0	657.1	652.0	647.0	641.9	641.9	652.0	647.0
55°	463.5	458.5	458.5	458.5	463.5	463.5	458.5	453.4
57.5°	310.8	310.8	305.6	305.6	310.8	300.5	305.6	300.5
60°	198.6	198.6	198.6	198.6	193.6	198.6	198.6	198.6
62.5°	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2
65°	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
67.5°	51.0	56.0	56.0	56.0	51.0	51.0	51.0	51.0
70°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
72.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
75°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	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



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















(END OF REPORT)