

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: P252726

Luminaire Tested: **LE_6B60D010R EC6B60708027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6666.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

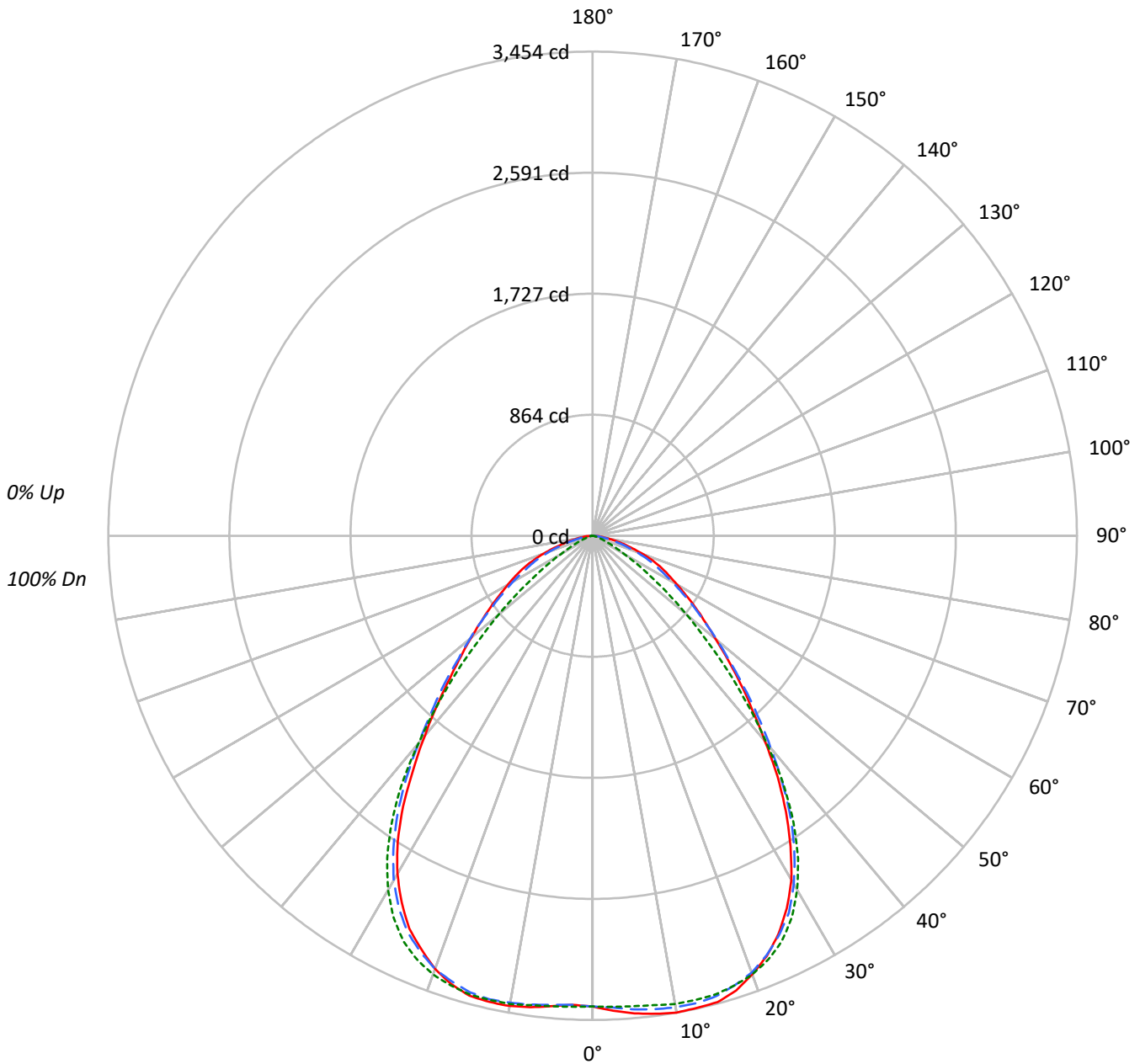
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68			68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61			61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54			54
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48			48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	219117	219117	219117
5°	224001	220576	220576
10°	228791	224703	225644
15°	232622	228772	229413
20°	231201	231201	228236
25°	225702	229805	222621
30°	213645	219732	209713
35°	191448	199015	187657
40°	162649	164668	158595
45°	137621	125793	132805
50°	116203	88718	114752
55°	102130	57270	101050
60°	90502	34082	91128
65°	83593	20532	83593
70°	72485	11788	70673
75°	57472	7184	53893
80°	42830	5335	41027
85°	39074	3593	35556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.4	4.9
10°-20°	957.0	14.4
20°-30°	1439.3	21.6
30°-40°	1513.3	22.7
40°-50°	1130.4	17.0
50°-60°	703.8	10.6
60°-70°	400.2	6.0
70°-80°	164.8	2.5
80°-90°	34.1	0.5
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°	2719.6	40.8
0°-40°	4232.9	63.5
0°-60°	6067.1	91.0
0°-90°	6666.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6666.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3359	3359	3359	3359	3359	
5°	3420	3392	3368	3359	3368	327
15°	3444	3401	3387	3373	3397	968
25°	3135	3145	3192	3121	3093	1435
35°	2404	2466	2499	2428	2356	1492
45°	1492	1525	1363	1496	1439	1156
55°	898	879	504	865	888	808
65°	542	484	133	484	542	533
75°	228	180	28	176	214	248
85°	52	33	5	28	48	58
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°	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6
2.5°	3391.9	3387.1	3391.9	3382.4	3377.6	3377.6	3382.4	3372.9	3368.1	3372.9	3368.1
5°	3420.4	3410.9	3415.6	3410.9	3401.4	3401.4	3406.1	3391.9	3391.9	3396.6	3391.9
7.5°	3439.4	3439.4	3439.4	3429.9	3425.1	3420.4	3429.9	3415.6	3410.9	3410.9	3406.1
10°	3453.6	3448.9	3453.6	3444.1	3434.6	3429.9	3439.4	3429.9	3420.4	3429.9	3415.6
12.5°	3448.9	3448.9	3448.9	3444.1	3434.6	3429.9	3439.4	3425.1	3420.4	3425.1	3415.6
15°	3444.1	3429.9	3434.6	3429.9	3415.6	3415.6	3420.4	3406.1	3396.6	3410.9	3401.4
17.5°	3401.4	3391.9	3396.6	3387.1	3377.6	3372.9	3377.6	3372.9	3363.4	3372.9	3363.4
20°	3330.1	3330.1	3334.9	3325.4	3315.9	3311.1	3320.6	3311.1	3301.6	3315.9	3315.9
22.5°	3244.6	3244.6	3244.6	3239.9	3235.1	3235.1	3235.1	3230.4	3225.6	3235.1	3239.9
25°	3135.4	3130.6	3135.4	3140.1	3135.4	3130.6	3135.4	3135.4	3125.9	3144.9	3144.9
27.5°	2997.5	2997.5	3007.1	3002.2	3002.2	2997.5	3007.1	3007.1	3002.2	3016.6	3030.9
30°	2836.0	2826.5	2836.0	2836.0	2840.8	2840.8	2845.5	2845.5	2845.5	2859.8	2869.2
32.5°	2627.0	2631.8	2646.0	2641.2	2636.5	2650.8	2650.8	2660.2	2665.0	2674.5	2679.2
35°	2403.8	2408.5	2408.5	2413.2	2422.8	2413.2	2437.0	2432.2	2437.0	2456.0	2465.5
37.5°	2166.2	2152.0	2175.8	2166.2	2171.0	2171.0	2180.5	2185.2	2199.5	2223.2	2223.2
40°	1909.8	1914.5	1924.0	1928.8	1933.5	1933.5	1933.5	1947.8	1952.5	1981.0	1976.2
42.5°	1686.4	1686.4	1695.9	1700.6	1700.6	1700.6	1700.6	1714.9	1724.4	1733.9	1743.4
45°	1491.6	1477.4	1486.9	1486.9	1496.4	1491.6	1501.1	1510.6	1515.4	1529.6	1524.9
47.5°	1306.4	1301.6	1306.4	1311.1	1306.4	1311.1	1315.9	1320.6	1325.4	1325.4	1325.4
50°	1144.9	1144.9	1149.6	1154.4	1154.4	1154.4	1154.4	1159.1	1159.1	1168.6	1159.1
52.5°	1011.9	1016.6	1016.6	1011.9	1016.6	1016.6	1021.4	1021.4	1016.6	1016.6	1002.4
55°	897.9	893.1	897.9	893.1	897.9	897.9	893.1	893.1	888.4	883.6	878.9
57.5°	788.6	788.6	788.6	788.6	783.9	788.6	783.9	779.1	779.1	769.6	755.4
60°	693.6	693.6	693.6	693.6	693.6	688.9	693.6	688.9	679.4	669.9	650.9
62.5°	612.9	608.1	612.9	608.1	608.1	603.4	603.4	598.5	589.0	579.5	560.5
65°	541.5	546.2	541.5	541.5	536.8	532.0	532.0	527.2	513.0	503.5	484.5
67.5°	465.5	460.8	460.8	460.8	456.0	456.0	456.0	446.5	437.0	422.8	403.8
70°	380.0	380.0	380.0	375.2	375.2	370.5	370.5	365.8	356.2	346.8	323.0
72.5°	299.2	299.2	299.2	289.8	294.5	289.8	289.8	280.2	275.5	261.2	247.0
75°	228.0	228.0	223.2	223.2	218.5	213.8	213.8	209.0	204.2	194.8	180.5
77.5°	166.2	166.2	166.2	161.5	156.8	152.0	152.0	147.2	142.5	137.8	128.2
80°	114.0	114.0	114.0	114.0	109.2	104.5	104.5	99.8	99.8	95.0	85.5
82.5°	76.0	76.0	76.0	76.0	71.2	71.2	71.2	66.5	61.8	61.8	52.2
85°	52.2	52.2	47.5	47.5	47.5	47.5	42.8	42.8	38.0	33.2	33.2
87.5°	28.5	28.5	28.5	28.5	23.8	23.8	23.8	23.8	19.0	19.0	14.2
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°	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6
2.5°	3382.4	3382.4	3377.6	3363.4	3368.1	3363.4	3368.1	3363.4	3349.1	3363.4	3349.1
5°	3401.4	3406.1	3396.6	3377.6	3382.4	3377.6	3377.6	3372.9	3358.6	3368.1	3358.6
7.5°	3420.4	3415.6	3410.9	3391.9	3396.6	3391.9	3391.9	3382.4	3368.1	3377.6	3363.4
10°	3429.9	3429.9	3420.4	3401.4	3401.4	3396.6	3401.4	3396.6	3377.6	3391.9	3382.4
12.5°	3429.9	3425.1	3425.1	3401.4	3406.1	3401.4	3406.1	3396.6	3382.4	3391.9	3387.1
15°	3415.6	3415.6	3410.9	3387.1	3391.9	3391.9	3396.6	3387.1	3372.9	3387.1	3377.6
17.5°	3387.1	3387.1	3382.4	3363.4	3372.9	3372.9	3377.6	3368.1	3353.9	3363.4	3363.4
20°	3330.1	3334.9	3334.9	3320.6	3330.1	3330.1	3334.9	3330.1	3325.4	3330.1	3320.6
22.5°	3263.6	3273.1	3273.1	3258.9	3268.4	3268.4	3282.6	3277.9	3268.4	3273.1	3268.4
25°	3163.9	3173.4	3182.9	3173.4	3182.9	3182.9	3197.1	3192.4	3182.9	3192.4	3178.1
27.5°	3049.9	3054.6	3064.1	3054.6	3068.9	3064.1	3078.4	3073.6	3059.4	3073.6	3068.9
30°	2888.2	2907.2	2921.5	2907.2	2921.5	2921.5	2931.0	2926.2	2921.5	2916.8	2916.8
32.5°	2707.8	2726.8	2726.8	2722.0	2731.5	2731.5	2736.2	2726.8	2722.0	2726.8	2731.5
35°	2484.5	2494.0	2503.5	2498.8	2503.5	2508.2	2503.5	2508.2	2494.0	2498.8	2498.8
37.5°	2242.2	2251.8	2251.8	2237.5	2247.0	2247.0	2237.5	2237.5	2228.0	2237.5	2218.5
40°	1985.8	1976.2	1981.0	1971.5	1962.0	1962.0	1957.2	1938.2	1928.8	1933.5	1938.2
42.5°	1733.9	1733.9	1719.6	1695.9	1672.1	1672.1	1657.9	1648.4	1629.4	1638.9	1634.1
45°	1520.1	1496.4	1477.4	1439.4	1425.1	1415.6	1391.9	1368.1	1358.6	1363.4	1358.6
47.5°	1315.9	1296.9	1249.4	1197.1	1182.9	1168.6	1140.1	1111.6	1102.1	1092.6	1092.6
50°	1144.9	1111.6	1059.4	1002.4	978.6	954.9	916.9	888.4	869.4	874.1	874.1
52.5°	988.1	950.1	888.4	817.1	788.6	760.1	726.9	693.6	679.4	674.6	674.6
55°	850.4	807.6	745.9	665.1	641.4	608.1	565.2	527.2	508.2	503.5	513.0
57.5°	726.9	688.9	617.6	536.8	508.2	475.0	432.2	399.0	375.2	370.5	375.2
60°	627.1	574.8	513.0	437.0	399.0	370.5	323.0	294.5	270.8	261.2	266.0
62.5°	527.2	479.8	418.0	342.0	313.5	285.0	242.2	209.0	190.0	185.2	190.0
65°	451.2	403.8	346.8	280.2	251.8	223.2	185.2	152.0	137.8	133.0	137.8
67.5°	375.2	332.5	285.0	223.2	199.5	175.8	137.8	114.0	95.0	90.2	95.0
70°	304.0	266.0	218.5	175.8	152.0	133.0	104.5	80.8	66.5	61.8	66.5
72.5°	228.0	199.5	166.2	128.2	114.0	99.8	76.0	57.0	47.5	42.8	47.5
75°	166.2	142.5	118.8	90.2	80.8	71.2	52.2	38.0	33.2	28.5	33.2
77.5°	114.0	99.8	80.8	61.8	52.2	47.5	33.2	28.5	23.8	19.0	19.0
80°	76.0	66.5	52.2	42.8	38.0	33.2	23.8	19.0	14.2	14.2	14.2
82.5°	47.5	38.0	33.2	23.8	19.0	19.0	14.2	9.5	9.5	9.5	9.5
85°	28.5	23.8	19.0	14.2	9.5	9.5	4.8	4.8	4.8	4.8	4.8
87.5°	14.2	9.5	9.5	4.8	4.8	4.8	4.8	4.8	0.0	0.0	4.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6
2.5°	3358.6	3349.1	3349.1	3353.9	3358.6	3363.4	3353.9	3349.1	3349.1	3363.4	3353.9
5°	3358.6	3353.9	3353.9	3353.9	3363.4	3368.1	3358.6	3353.9	3358.6	3372.9	3368.1
7.5°	3372.9	3363.4	3368.1	3368.1	3372.9	3382.4	3372.9	3368.1	3372.9	3387.1	3377.6
10°	3382.4	3372.9	3377.6	3372.9	3387.1	3391.9	3382.4	3377.6	3382.4	3401.4	3396.6
12.5°	3387.1	3382.4	3382.4	3377.6	3391.9	3396.6	3387.1	3382.4	3387.1	3401.4	3396.6
15°	3377.6	3372.9	3372.9	3372.9	3382.4	3391.9	3377.6	3372.9	3372.9	3387.1	3382.4
17.5°	3358.6	3349.1	3349.1	3349.1	3353.9	3358.6	3344.4	3339.6	3334.9	3349.1	3344.4
20°	3325.4	3315.9	3306.4	3306.4	3311.1	3311.1	3301.6	3287.4	3287.4	3292.1	3282.6
22.5°	3263.6	3258.9	3249.4	3244.6	3254.1	3249.4	3230.4	3216.1	3211.4	3216.1	3206.6
25°	3178.1	3168.6	3163.9	3159.1	3163.9	3159.1	3140.1	3121.1	3121.1	3121.1	3106.9
27.5°	3059.4	3049.9	3045.1	3045.1	3049.9	3040.4	3021.4	3002.2	2992.8	2992.8	2978.5
30°	2907.2	2907.2	2902.5	2897.8	2893.0	2893.0	2864.5	2845.5	2836.0	2840.8	2831.2
32.5°	2722.0	2717.2	2712.5	2698.2	2703.0	2698.2	2674.5	2660.2	2646.0	2636.5	2631.8
35°	2484.5	2484.5	2479.8	2479.8	2479.8	2475.0	2451.2	2437.0	2427.5	2422.8	2408.5
37.5°	2223.2	2218.5	2213.8	2213.8	2213.8	2213.8	2199.5	2185.2	2185.2	2180.5	2171.0
40°	1928.8	1933.5	1938.2	1933.5	1947.8	1962.0	1943.0	1933.5	1928.8	1943.0	1924.0
42.5°	1643.6	1638.9	1662.6	1667.4	1667.4	1691.1	1695.9	1700.6	1695.9	1705.4	1705.4
45°	1368.1	1363.4	1387.1	1396.6	1420.4	1448.9	1463.1	1486.9	1496.4	1505.9	1496.4
47.5°	1106.9	1125.9	1144.9	1168.6	1187.6	1235.1	1263.6	1287.4	1296.9	1311.1	1311.1
50°	888.4	907.4	940.6	959.6	983.4	1040.4	1087.9	1121.1	1140.1	1154.4	1149.6
52.5°	684.1	717.4	760.1	779.1	812.4	878.9	931.1	969.1	992.9	1007.1	1011.9
55°	527.2	555.8	598.5	627.1	660.4	731.6	798.1	840.9	864.6	883.6	893.1
57.5°	389.5	422.8	470.2	494.0	532.0	612.9	669.9	722.1	750.6	774.4	779.1
60°	285.0	318.2	361.0	389.5	427.5	508.2	574.8	622.4	655.6	674.6	684.1
62.5°	204.2	237.5	280.2	308.8	342.0	413.2	479.8	527.2	560.5	584.2	598.5
65°	147.2	180.5	223.2	247.0	275.5	342.0	403.8	451.2	484.5	513.0	522.5
67.5°	109.2	133.0	171.0	194.8	223.2	275.5	327.8	370.5	403.8	427.5	437.0
70°	80.8	99.8	133.0	147.2	166.2	213.8	256.5	294.5	323.0	342.0	351.5
72.5°	57.0	71.2	95.0	109.2	123.5	161.5	194.8	223.2	242.2	261.2	270.8
75°	38.0	47.5	66.5	76.0	85.5	114.0	137.8	161.5	175.8	190.0	194.8
77.5°	23.8	33.2	47.5	52.2	61.8	76.0	95.0	109.2	118.8	128.2	137.8
80°	14.2	19.0	28.5	33.2	38.0	52.2	61.8	71.2	80.8	90.2	95.0
82.5°	9.5	14.2	19.0	19.0	23.8	28.5	38.0	47.5	52.2	57.0	61.8
85°	4.8	4.8	9.5	9.5	14.2	14.2	19.0	23.8	28.5	33.2	38.0
87.5°	4.8	4.8	4.8	4.8	9.5	9.5	14.2	14.2	14.2	19.0	19.0
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: P252726

CATALOG NUMBER: LE_6B60D010R EC6B60708027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6	3358.6
2.5°	3344.4	3358.6	3344.4	3353.9	3349.1	3349.1	3344.4	3349.1
5°	3358.6	3377.6	3358.6	3372.9	3363.4	3363.4	3363.4	3368.1
7.5°	3372.9	3391.9	3377.6	3391.9	3387.1	3382.4	3382.4	3391.9
10°	3387.1	3401.4	3391.9	3406.1	3401.4	3396.6	3396.6	3406.1
12.5°	3387.1	3406.1	3396.6	3410.9	3406.1	3401.4	3401.4	3406.1
15°	3372.9	3396.6	3382.4	3396.6	3391.9	3387.1	3387.1	3396.6
17.5°	3330.1	3349.1	3339.6	3349.1	3349.1	3344.4	3349.1	3353.9
20°	3273.1	3287.4	3277.9	3287.4	3287.4	3277.9	3282.6	3287.4
22.5°	3192.4	3206.6	3197.1	3206.6	3201.9	3197.1	3197.1	3192.4
25°	3092.6	3111.6	3097.4	3106.9	3097.4	3087.9	3087.9	3092.6
27.5°	2969.0	2983.2	2964.2	2973.8	2964.2	2954.8	2954.8	2950.0
30°	2807.5	2812.2	2798.0	2807.5	2798.0	2793.2	2783.8	2783.8
32.5°	2612.8	2617.5	2603.2	2603.2	2593.8	2593.8	2574.8	2589.0
35°	2384.8	2389.5	2384.8	2380.0	2365.8	2361.0	2356.2	2356.2
37.5°	2147.2	2147.2	2133.0	2128.2	2118.8	2109.2	2114.0	2099.8
40°	1905.0	1900.2	1886.0	1890.8	1886.0	1871.8	1867.0	1862.2
42.5°	1676.9	1676.9	1662.6	1667.4	1657.9	1653.1	1638.9	1643.6
45°	1477.4	1477.4	1463.1	1463.1	1458.4	1444.1	1448.9	1439.4
47.5°	1296.9	1296.9	1292.1	1292.1	1277.9	1273.1	1273.1	1273.1
50°	1140.1	1140.1	1140.1	1140.1	1135.4	1130.6	1125.9	1130.6
52.5°	1007.1	1016.6	1011.9	1011.9	1007.1	1002.4	997.6	997.6
55°	888.4	893.1	893.1	897.9	893.1	888.4	893.1	888.4
57.5°	783.9	793.4	793.4	793.4	793.4	793.4	788.6	783.9
60°	693.6	698.4	698.4	703.1	703.1	703.1	698.4	698.4
62.5°	603.4	612.9	617.6	617.6	622.4	617.6	617.6	617.6
65°	532.0	541.5	546.2	541.5	546.2	546.2	541.5	541.5
67.5°	446.5	456.0	456.0	456.0	456.0	460.8	456.0	456.0
70°	361.0	370.5	365.8	370.5	370.5	370.5	370.5	370.5
72.5°	275.5	280.2	285.0	285.0	289.8	285.0	285.0	285.0
75°	199.5	209.0	209.0	209.0	209.0	213.8	213.8	213.8
77.5°	142.5	147.2	147.2	152.0	152.0	152.0	152.0	156.8
80°	99.8	99.8	104.5	104.5	109.2	109.2	109.2	109.2
82.5°	66.5	71.2	71.2	71.2	71.2	71.2	71.2	71.2
85°	38.0	42.8	42.8	42.8	42.8	47.5	47.5	47.5
87.5°	23.8	23.8	23.8	23.8	23.8	23.8	19.0	19.0
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)