

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: P252189

Luminaire Tested: **LE_6B40D010 EC6B30509040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252189
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_6B40D010 EC6B30509040 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5767.5 lumens
Efficiency: N/A
Efficacy: 134.1 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

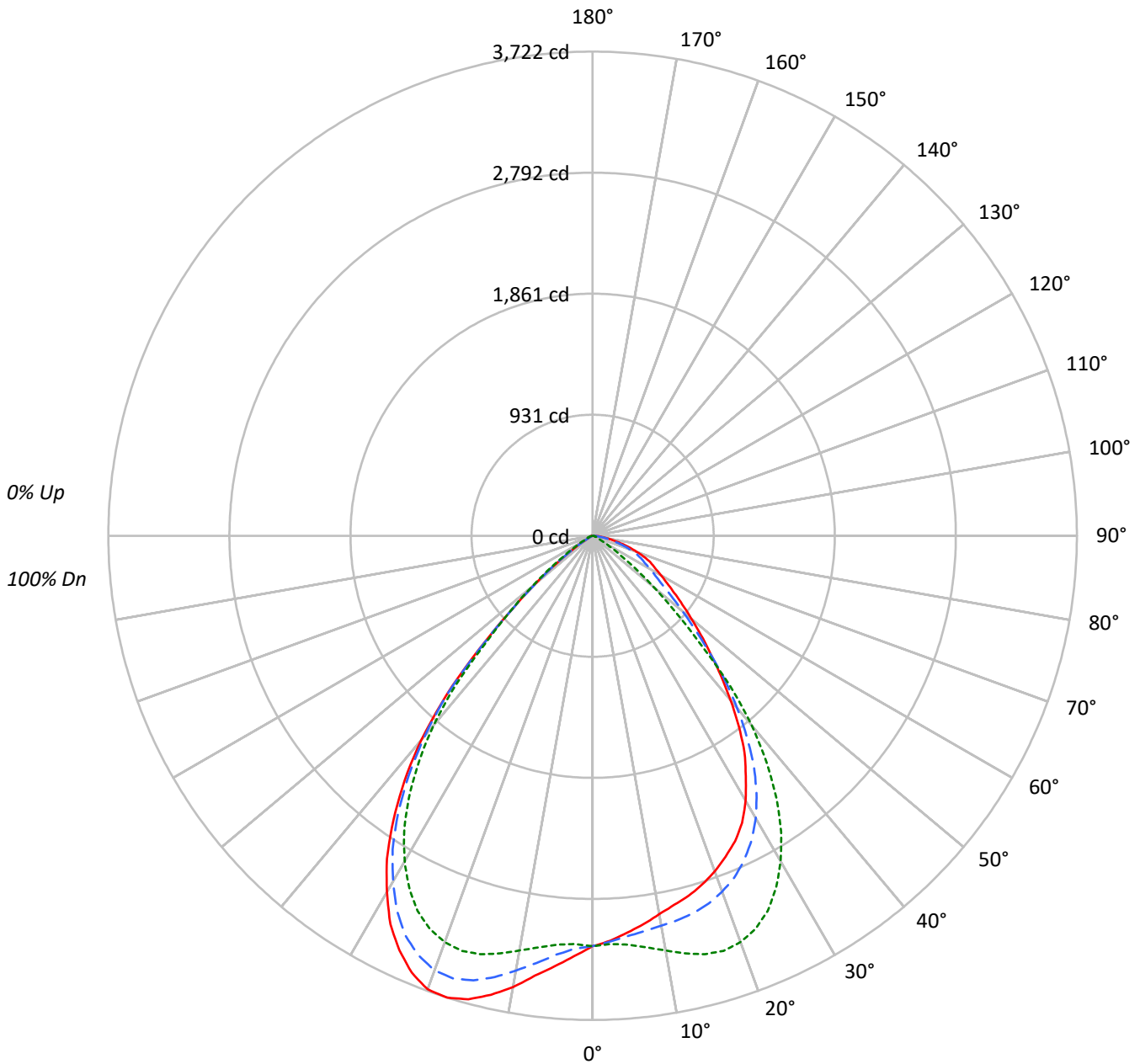
Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	205847	205847	205847
5°	200517	206634	217498
10°	195634	214429	233402
15°	193346	224929	249176
20°	190579	230791	257604
25°	186528	229085	252970
30°	177252	217706	238144
35°	162163	196283	212618
40°	140268	162104	174436
45°	118283	106307	114112
50°	100421	61547	57863
55°	87150	29505	22305
60°	78706	13779	5506
65°	76384	7904	1868
70°	68480	6314	1717
75°	56262	4562	756
80°	41929	2254	0
85°	36080	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	5.3
10°-20°	928.8	16.1
20°-30°	1419.2	24.6
30°-40°	1484.3	25.7
40°-50°	962.9	16.7
50°-60°	382.3	6.6
60°-70°	181.4	3.1
70°-80°	86.2	1.5
80°-90°	17.6	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°	2652.8	46.0
0°-40°	4137.1	71.7
0°-60°	5482.3	95.1
0°-90°	5767.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5767.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3155	3155	3155	3155	3155	
5°	3062	3089	3155	3234	3321	289
15°	2863	3001	3330	3538	3689	807
25°	2591	2754	3182	3397	3514	1187
35°	2036	2160	2464	2609	2670	1259
45°	1282	1270	1152	1222	1237	998
55°	766	652	259	202	196	694
65°	495	410	51	12	12	483
75°	223	181	18	6	3	241
85°	48	30	0	0	0	56
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°	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2
2.5°	3116.1	3122.1	3088.9	3079.9	3104.0	3113.0	3116.1	3107.0	3110.0	3122.1	3122.1
5°	3061.8	3067.8	3037.6	3028.6	3052.8	3058.8	3067.8	3064.8	3073.9	3091.9	3088.9
7.5°	3010.5	3019.5	2986.4	2974.2	3004.5	3019.5	3025.6	3025.6	3037.6	3061.8	3064.8
10°	2953.1	2965.2	2935.1	2929.0	2962.2	2977.2	2980.4	2986.4	3004.5	3037.6	3043.6
12.5°	2904.9	2917.0	2895.9	2886.8	2923.0	2938.1	2944.1	2956.1	2977.2	3019.5	3025.6
15°	2862.6	2871.8	2847.6	2841.5	2877.8	2895.9	2898.9	2917.0	2944.1	2992.4	3001.4
17.5°	2808.4	2814.4	2796.2	2790.2	2826.5	2844.6	2847.6	2868.8	2901.9	2950.1	2965.2
20°	2745.0	2751.1	2733.0	2726.9	2763.1	2784.2	2787.2	2805.4	2844.6	2895.9	2911.0
22.5°	2669.6	2681.6	2660.6	2654.5	2690.8	2708.9	2717.9	2733.0	2772.1	2823.5	2844.6
25°	2591.2	2591.2	2576.1	2573.1	2606.2	2627.4	2624.4	2645.5	2684.8	2736.0	2754.1
27.5°	2488.6	2485.6	2470.5	2467.5	2503.8	2521.8	2515.8	2536.9	2573.1	2624.4	2642.5
30°	2352.9	2358.9	2337.8	2331.8	2361.9	2392.1	2389.1	2410.2	2446.4	2494.6	2506.8
32.5°	2190.0	2196.0	2193.0	2184.0	2211.1	2226.2	2235.2	2250.4	2280.5	2331.8	2343.9
35°	2036.1	2027.1	2015.0	2015.0	2042.1	2066.4	2057.2	2075.4	2105.5	2156.8	2159.9
37.5°	1846.1	1843.1	1837.0	1831.0	1861.2	1867.2	1870.2	1882.2	1909.5	1951.6	1945.6
40°	1647.0	1650.0	1647.0	1635.0	1653.0	1677.1	1674.1	1680.2	1704.4	1734.5	1725.5
42.5°	1460.0	1460.0	1460.0	1447.9	1469.0	1481.1	1487.1	1484.1	1490.1	1517.2	1505.2
45°	1282.0	1285.0	1282.0	1279.0	1282.0	1288.0	1282.0	1279.0	1279.0	1288.0	1270.0
47.5°	1128.1	1128.1	1119.1	1110.1	1119.1	1122.1	1113.1	1104.0	1101.0	1098.0	1067.9
50°	989.4	986.4	983.4	968.2	977.4	980.4	968.2	962.2	950.2	935.1	898.9
52.5°	868.8	865.8	862.8	847.6	853.6	856.8	844.6	832.5	817.5	805.4	760.1
55°	766.2	763.1	763.1	754.1	748.1	754.1	742.1	733.0	711.9	696.9	651.6
57.5°	678.8	678.8	672.6	663.6	666.6	666.6	654.6	642.5	624.4	606.4	570.1
60°	603.2	603.2	603.2	594.2	594.2	594.2	588.2	576.1	561.1	543.0	506.8
62.5°	543.0	543.0	540.0	530.9	533.9	533.9	527.9	515.9	500.8	488.6	452.5
65°	494.8	494.8	494.8	485.6	485.6	488.6	482.6	470.6	458.5	443.4	410.2
67.5°	434.4	431.4	431.4	425.4	428.4	431.4	425.4	416.2	401.2	392.1	362.0
70°	359.0	362.0	365.0	356.0	359.0	359.0	356.0	346.9	337.9	328.8	301.6
72.5°	292.6	292.6	289.6	286.6	286.6	289.6	283.5	274.5	268.5	262.4	241.4
75°	223.2	220.2	223.2	217.2	217.2	217.2	211.1	208.1	205.1	196.1	181.0
77.5°	162.9	159.9	159.9	153.9	156.9	156.9	153.9	147.8	141.8	138.8	126.8
80°	111.6	111.6	111.6	108.6	108.6	105.6	105.6	102.5	96.5	93.5	87.5
82.5°	75.4	75.4	75.4	72.4	72.4	72.4	69.4	66.4	63.4	60.4	54.2
85°	48.2	48.2	48.2	45.2	45.2	45.2	42.2	42.2	39.2	36.2	30.1
87.5°	27.1	27.1	27.1	24.1	24.1	24.1	24.1	24.1	21.1	18.1	15.1
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°	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2
2.5°	3143.2	3101.0	3128.1	3128.1	3119.1	3143.2	3158.2	3170.4	3167.4	3140.2	3137.1
5°	3119.1	3082.9	3113.0	3116.1	3107.0	3140.2	3161.2	3176.4	3179.4	3155.2	3158.2
7.5°	3101.0	3070.9	3110.0	3122.1	3119.1	3149.2	3173.4	3197.5	3209.6	3191.5	3194.5
10°	3091.9	3067.8	3110.0	3128.1	3131.1	3164.4	3200.5	3233.8	3248.8	3236.8	3245.8
12.5°	3079.9	3064.8	3113.0	3140.2	3152.2	3185.5	3230.8	3269.9	3294.0	3288.0	3306.1
15°	3067.8	3055.8	3113.0	3152.2	3167.4	3197.5	3248.8	3306.1	3333.2	3330.2	3354.4
17.5°	3037.6	3034.6	3095.0	3137.1	3158.2	3194.5	3242.8	3312.1	3339.2	3345.4	3375.5
20°	2989.4	2989.4	3055.8	3101.0	3125.1	3158.2	3218.6	3285.0	3318.1	3324.2	3357.4
22.5°	2923.0	2929.0	2992.4	3037.6	3073.9	3098.0	3161.2	3230.8	3260.9	3269.9	3306.1
25°	2835.5	2841.5	2901.9	2947.1	2986.4	3013.5	3073.9	3137.1	3173.4	3182.4	3209.6
27.5°	2720.9	2733.0	2790.2	2835.5	2868.8	2886.8	2950.1	3016.5	3043.6	3052.8	3079.9
30°	2588.1	2591.2	2648.5	2687.8	2720.9	2736.0	2790.2	2859.6	2880.8	2889.9	2929.0
32.5°	2425.2	2422.2	2476.5	2512.8	2539.9	2558.0	2615.4	2660.6	2681.6	2696.8	2717.9
35°	2229.2	2226.2	2265.4	2307.6	2328.8	2334.8	2392.1	2440.4	2452.4	2464.5	2491.6
37.5°	2009.0	2009.0	2042.1	2063.2	2087.4	2096.5	2123.6	2177.9	2199.0	2196.0	2217.1
40°	1776.8	1764.6	1788.8	1809.9	1816.0	1819.0	1846.1	1888.4	1903.4	1903.4	1918.5
42.5°	1532.4	1514.2	1517.2	1529.4	1535.4	1514.2	1532.4	1559.5	1550.5	1562.5	1565.6
45°	1273.0	1245.9	1233.8	1206.6	1212.6	1191.5	1179.5	1185.5	1182.5	1152.2	1158.4
47.5°	1061.9	1013.5	992.4	953.2	944.1	920.0	905.0	877.8	853.6	853.6	838.6
50°	883.9	835.6	793.4	748.1	733.0	711.9	678.8	642.5	624.4	606.4	591.2
52.5°	742.1	690.8	639.5	591.2	570.1	543.0	497.8	461.5	428.4	410.2	392.1
55°	627.4	570.1	515.9	464.5	437.4	410.2	365.0	322.8	283.5	259.4	244.4
57.5°	540.0	485.6	428.4	374.0	349.9	319.8	271.5	226.2	190.0	162.9	147.8
60°	476.6	422.2	371.0	313.8	289.6	259.4	208.1	165.9	129.8	105.6	87.5
62.5°	422.2	374.0	319.8	268.5	244.4	214.1	165.9	123.6	90.5	66.4	51.2
65°	383.1	334.9	289.6	238.2	217.2	187.0	141.8	102.5	72.4	51.2	36.2
67.5°	337.9	295.6	250.4	208.1	187.0	162.9	120.6	87.5	60.4	42.2	30.1
70°	283.5	250.4	211.1	172.0	156.9	135.8	99.5	72.4	48.2	33.1	24.1
72.5°	226.2	199.1	168.9	138.8	126.8	105.6	81.5	57.4	36.2	24.1	18.1
75°	172.0	150.9	126.8	105.6	93.5	81.5	60.4	42.2	27.1	18.1	12.1
77.5°	117.6	108.6	90.5	72.4	66.4	57.4	39.2	27.1	18.1	12.1	6.0
80°	81.5	72.4	60.4	48.2	42.2	36.2	24.1	18.1	9.0	6.0	3.0
82.5°	51.2	42.2	36.2	30.1	27.1	21.1	15.1	9.0	6.0	3.0	3.0
85°	27.1	24.1	21.1	15.1	15.1	12.1	9.0	6.0	3.0	0.0	0.0
87.5°	15.1	12.1	9.0	6.0	6.0	3.0	3.0	3.0	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°	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2
2.5°	3173.4	3173.4	3170.4	3206.5	3164.4	3206.5	3185.5	3206.5	3176.4	3173.4	3176.4
5°	3197.5	3206.5	3209.6	3242.8	3203.5	3254.9	3236.8	3254.9	3233.8	3239.8	3248.8
7.5°	3245.8	3260.9	3257.9	3300.1	3260.9	3318.1	3306.1	3333.2	3312.1	3318.1	3330.2
10°	3300.1	3318.1	3321.1	3363.4	3327.2	3396.6	3381.5	3411.6	3393.6	3402.6	3417.8
12.5°	3363.4	3384.5	3387.5	3435.9	3396.6	3469.0	3460.0	3490.1	3475.0	3484.1	3502.1
15°	3411.6	3441.9	3447.9	3496.1	3453.9	3529.4	3523.2	3562.5	3538.4	3553.5	3568.5
17.5°	3435.9	3463.0	3475.0	3520.2	3484.1	3559.5	3553.5	3586.6	3568.5	3583.6	3601.8
20°	3420.8	3453.9	3463.0	3508.2	3472.0	3547.4	3538.4	3571.5	3553.5	3565.5	3583.6
22.5°	3366.4	3399.6	3411.6	3453.9	3420.8	3490.1	3487.1	3517.2	3493.1	3508.2	3523.2
25°	3269.9	3306.1	3312.1	3351.4	3315.1	3387.5	3381.5	3414.8	3396.6	3405.6	3426.8
27.5°	3131.1	3173.4	3182.4	3215.6	3188.5	3248.8	3248.8	3276.0	3254.9	3254.9	3276.0
30°	2965.2	3007.5	3013.5	3040.6	3016.5	3070.9	3073.9	3101.0	3067.8	3085.9	3088.9
32.5°	2763.1	2790.2	2808.4	2832.5	2796.2	2865.8	2856.6	2877.8	2859.6	2859.6	2874.8
35°	2518.8	2552.0	2561.0	2591.2	2561.0	2615.4	2615.4	2627.4	2609.2	2609.2	2633.4
37.5°	2253.4	2277.5	2280.5	2310.6	2286.5	2331.8	2328.8	2337.8	2319.8	2331.8	2331.8
40°	1942.6	1960.8	1966.8	1981.9	1978.9	2012.0	2009.0	2015.0	2006.0	2009.0	2015.0
42.5°	1580.6	1604.8	1616.9	1628.9	1610.9	1656.1	1647.0	1656.1	1653.0	1656.1	1665.1
45°	1164.4	1182.5	1191.5	1194.5	1188.5	1215.6	1236.8	1218.6	1221.8	1215.6	1227.8
47.5°	841.6	844.6	838.6	856.8	841.6	853.6	859.8	862.8	844.6	841.6	853.6
50°	576.1	591.2	570.1	579.1	576.1	588.2	582.2	585.2	567.1	576.1	570.1
52.5°	383.1	380.1	374.0	377.1	371.0	371.0	371.0	377.1	365.0	359.0	352.9
55°	232.2	226.2	214.1	211.1	211.1	214.1	208.1	202.1	202.1	199.1	199.1
57.5°	135.8	126.8	120.6	117.6	111.6	108.6	105.6	105.6	99.5	99.5	99.5
60°	75.4	66.4	60.4	54.2	54.2	51.2	48.2	45.2	45.2	45.2	42.2
62.5°	39.2	33.1	27.1	24.1	24.1	21.1	18.1	18.1	18.1	18.1	15.1
65°	27.1	21.1	18.1	15.1	15.1	12.1	12.1	12.1	12.1	12.1	12.1
67.5°	21.1	18.1	15.1	12.1	12.1	12.1	9.0	9.0	9.0	9.0	9.0
70°	18.1	12.1	12.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
72.5°	12.1	12.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
75°	9.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	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: P252189

CATALOG NUMBER: LE_6B40D010 EC6B30509040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2	3155.2
2.5°	3203.5	3200.5	3203.5	3209.6	3197.5	3233.8	3215.6	3233.8
5°	3272.9	3276.0	3279.0	3288.0	3272.9	3318.1	3294.0	3321.1
7.5°	3363.4	3366.4	3369.5	3378.5	3369.5	3414.8	3387.5	3411.6
10°	3456.9	3463.0	3463.0	3478.0	3469.0	3511.2	3493.1	3523.2
12.5°	3544.4	3550.5	3556.5	3565.5	3559.5	3604.8	3589.6	3613.8
15°	3613.8	3625.9	3628.9	3640.9	3634.9	3683.1	3665.1	3689.2
17.5°	3647.0	3659.0	3659.0	3674.1	3668.1	3719.4	3695.2	3722.4
20°	3628.9	3637.9	3640.9	3656.0	3650.0	3701.2	3677.1	3710.4
22.5°	3571.5	3574.6	3577.6	3592.6	3589.6	3634.9	3613.8	3634.9
25°	3466.0	3475.0	3472.0	3484.1	3484.1	3520.2	3496.1	3514.2
27.5°	3315.1	3324.2	3324.2	3339.2	3327.2	3363.4	3339.2	3366.4
30°	3131.1	3140.2	3134.1	3146.2	3134.1	3170.4	3152.2	3161.2
32.5°	2911.0	2911.0	2914.0	2917.0	2911.0	2944.1	2926.0	2944.1
35°	2648.5	2654.5	2657.5	2660.6	2654.5	2678.6	2657.5	2669.6
37.5°	2352.9	2368.0	2365.0	2368.0	2358.9	2389.1	2371.0	2377.0
40°	2036.1	2036.1	2033.1	2039.1	2030.1	2054.2	2042.1	2048.2
42.5°	1668.1	1677.1	1665.1	1680.2	1656.1	1689.2	1677.1	1668.1
45°	1251.9	1239.8	1236.8	1239.8	1230.8	1233.8	1242.8	1236.8
47.5°	853.6	853.6	847.6	838.6	850.6	853.6	841.6	841.6
50°	573.1	573.1	567.1	564.1	570.1	567.1	561.1	570.1
52.5°	365.0	352.9	352.9	359.0	352.9	346.9	356.0	349.9
55°	199.1	193.0	193.0	199.1	193.0	193.0	190.0	196.1
57.5°	96.5	99.5	96.5	96.5	96.5	96.5	93.5	96.5
60°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
62.5°	18.1	18.1	15.1	15.1	15.1	15.1	15.1	15.1
65°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
67.5°	9.0	9.0	9.0	9.0	9.0	12.1	9.0	9.0
70°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
72.5°	9.0	9.0	12.1	12.1	12.1	12.1	12.1	12.1
75°	6.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0
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)