

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: P252186

Luminaire Tested: **LE_6B40D010 EC6B30509027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252186
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 EC6B30509027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5460.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

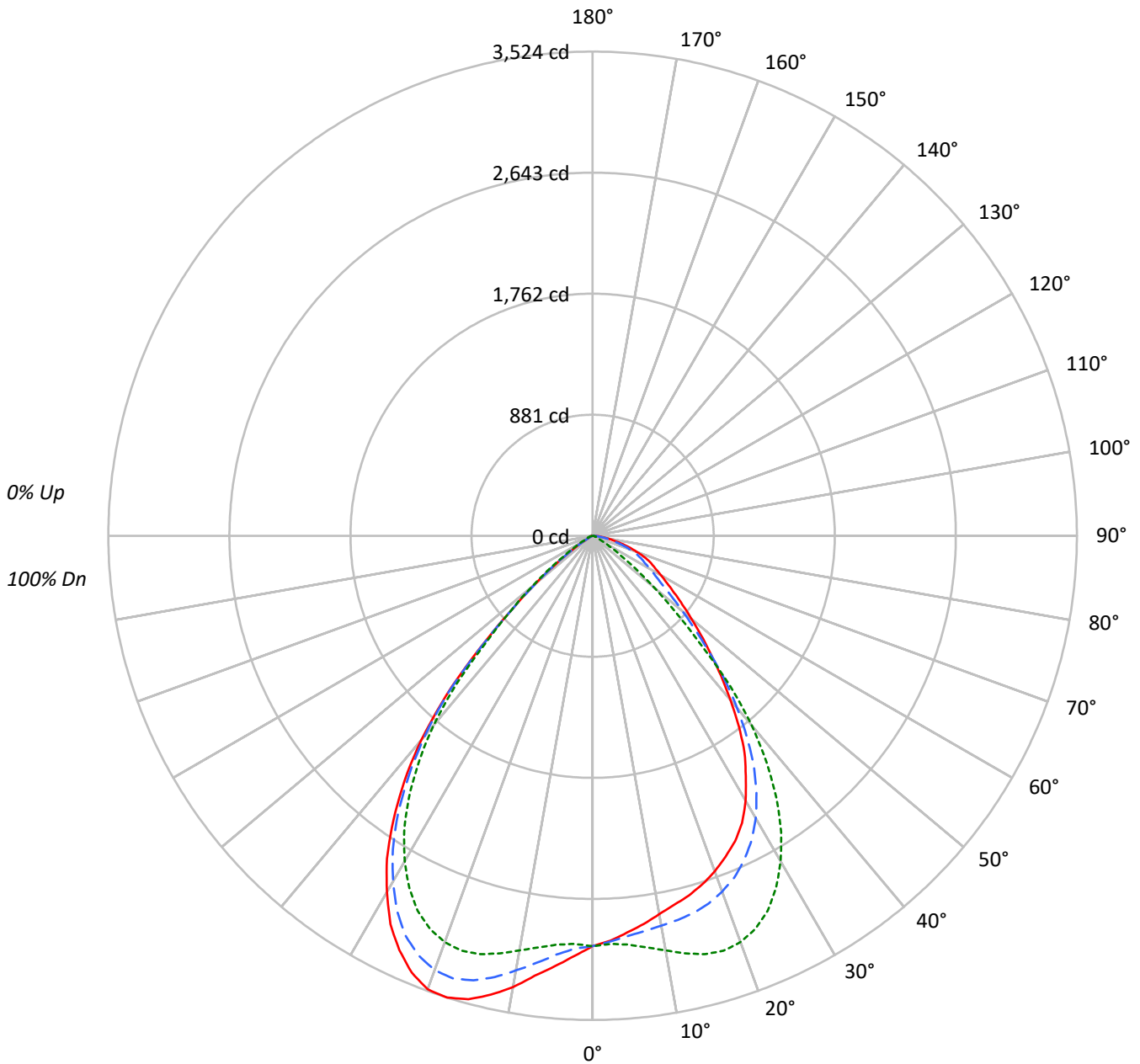
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	194874	194874	194874
5°	189822	195618	205907
10°	185214	202988	220967
15°	183039	212933	235891
20°	180415	218489	243865
25°	176579	216877	239487
30°	167805	206097	225458
35°	153522	185818	201277
40°	132790	153468	165136
45°	111972	100651	108032
50°	95062	58259	54788
55°	82510	27935	21111
60°	74518	13048	5219
65°	72308	7487	1760
70°	64836	5990	1640
75°	53288	4310	731
80°	39675	2179	0
85°	34284	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	5.3
10°-20°	879.3	16.1
20°-30°	1343.5	24.6
30°-40°	1405.2	25.7
40°-50°	911.6	16.7
50°-60°	361.9	6.6
60°-70°	171.7	3.1
70°-80°	81.7	1.5
80°-90°	16.7	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°	2511.3	46.0
0°-40°	3916.5	71.7
0°-60°	5190.0	95.1
0°-90°	5460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5460.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2987	2987	2987	2987	2987	
5°	2898	2924	2987	3061	3144	274
15°	2710	2841	3153	3350	3492	764
25°	2453	2607	3013	3216	3327	1123
35°	1928	2045	2333	2470	2527	1192
45°	1214	1202	1091	1156	1171	944
55°	725	617	246	191	186	657
65°	468	388	48	11	11	457
75°	211	171	17	6	3	228
85°	46	28	0	0	0	53
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°	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0
2.5°	2949.9	2955.6	2924.2	2915.6	2938.5	2947.1	2949.9	2941.4	2944.2	2955.6	2955.6
5°	2898.5	2904.2	2875.6	2867.1	2890.0	2895.6	2904.2	2901.4	2910.0	2927.1	2924.2
7.5°	2850.0	2858.5	2827.1	2815.8	2844.2	2858.5	2864.2	2864.2	2875.6	2898.5	2901.4
10°	2795.8	2807.1	2778.6	2772.9	2804.2	2818.6	2821.4	2827.1	2844.2	2875.6	2881.4
12.5°	2750.0	2761.5	2741.5	2732.9	2767.1	2781.5	2787.1	2798.6	2818.6	2858.5	2864.2
15°	2710.0	2718.6	2695.8	2690.0	2724.4	2741.5	2744.4	2761.5	2787.1	2832.9	2841.4
17.5°	2658.6	2664.4	2647.2	2641.5	2675.8	2692.9	2695.8	2715.8	2747.1	2792.9	2807.1
20°	2598.6	2604.4	2587.2	2581.5	2615.8	2635.8	2638.6	2655.8	2692.9	2741.5	2755.8
22.5°	2527.2	2538.8	2518.8	2513.0	2547.2	2564.4	2573.0	2587.2	2624.4	2672.9	2692.9
25°	2453.0	2453.0	2438.8	2435.9	2467.4	2487.2	2484.5	2504.5	2541.6	2590.1	2607.2
27.5°	2356.0	2353.1	2338.8	2336.0	2370.2	2387.4	2381.6	2401.6	2435.9	2484.5	2501.6
30°	2227.5	2233.1	2213.1	2207.5	2236.0	2264.5	2261.8	2281.8	2316.0	2361.6	2373.1
32.5°	2073.2	2079.0	2076.1	2067.5	2093.2	2107.5	2116.1	2130.4	2158.9	2207.5	2218.9
35°	1927.6	1919.0	1907.6	1907.6	1933.2	1956.1	1947.6	1964.8	1993.2	2041.9	2044.6
37.5°	1747.6	1744.9	1739.1	1733.4	1762.0	1767.6	1770.5	1782.0	1807.6	1847.6	1841.9
40°	1559.2	1562.0	1559.2	1547.8	1564.9	1587.8	1584.9	1590.6	1613.5	1642.0	1633.5
42.5°	1382.1	1382.1	1382.1	1370.8	1390.8	1402.1	1407.9	1405.0	1410.8	1436.4	1425.0
45°	1213.6	1216.5	1213.6	1210.8	1213.6	1219.4	1213.6	1210.8	1210.8	1219.4	1202.2
47.5°	1068.0	1068.0	1059.5	1050.9	1059.5	1062.4	1053.8	1045.1	1042.4	1039.5	1010.9
50°	936.6	933.8	931.0	916.6	925.2	928.1	916.6	911.0	899.5	885.2	851.0
52.5°	822.5	819.6	816.8	802.5	808.1	811.0	799.6	788.1	773.9	762.5	719.6
55°	725.4	722.5	722.5	713.9	708.2	713.9	702.5	693.9	674.0	659.6	616.9
57.5°	642.5	642.5	636.9	628.2	631.1	631.1	619.6	608.2	591.1	574.0	539.8
60°	571.1	571.1	571.1	562.6	562.6	562.6	556.9	545.4	531.1	514.0	479.8
62.5°	514.0	514.0	511.1	502.6	505.5	505.5	499.8	488.4	474.0	462.6	428.4
65°	468.4	468.4	468.4	459.8	459.8	462.6	456.9	445.5	434.1	419.8	388.4
67.5°	411.2	408.4	408.4	402.6	405.5	408.4	402.6	394.1	379.8	371.2	342.6
70°	339.9	342.6	345.5	337.0	339.9	339.9	337.0	328.4	319.9	311.2	285.6
72.5°	277.0	277.0	274.1	271.2	271.2	274.1	268.4	259.9	254.1	248.5	228.5
75°	211.4	208.5	211.4	205.6	205.6	205.6	199.9	197.0	194.1	185.6	171.4
77.5°	154.2	151.4	151.4	145.6	148.5	148.5	145.6	139.9	134.2	131.4	120.0
80°	105.6	105.6	105.6	102.8	102.8	100.0	100.0	97.1	91.4	88.5	82.9
82.5°	71.4	71.4	71.4	68.5	68.5	68.5	65.6	62.9	60.0	57.1	51.4
85°	45.8	45.8	45.8	42.9	42.9	42.9	40.0	40.0	37.1	34.2	28.5
87.5°	25.8	25.8	25.8	22.9	22.9	22.9	22.9	22.9	20.0	17.1	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°	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0
2.5°	2975.6	2935.6	2961.4	2961.4	2952.8	2975.6	2989.9	3001.4	2998.5	2972.8	2969.9
5°	2952.8	2918.5	2947.1	2949.9	2941.4	2972.8	2992.8	3007.0	3009.9	2987.0	2989.9
7.5°	2935.6	2907.1	2944.2	2955.6	2952.8	2981.4	3004.1	3027.0	3038.5	3021.4	3024.1
10°	2927.1	2904.2	2944.2	2961.4	2964.2	2995.6	3029.9	3061.2	3075.6	3064.1	3072.8
12.5°	2915.6	2901.4	2947.1	2972.8	2984.2	3015.6	3058.5	3095.6	3118.4	3112.8	3129.9
15°	2904.2	2892.9	2947.1	2984.2	2998.5	3027.0	3075.6	3129.9	3155.5	3152.6	3175.5
17.5°	2875.6	2872.9	2929.9	2969.9	2989.9	3024.1	3069.9	3135.5	3161.2	3167.0	3195.5
20°	2830.0	2830.0	2892.9	2935.6	2958.5	2989.9	3047.0	3109.9	3141.2	3147.0	3178.4
22.5°	2767.1	2772.9	2832.9	2875.6	2910.0	2932.8	2992.8	3058.5	3087.0	3095.6	3129.9
25°	2684.4	2690.0	2747.1	2790.0	2827.1	2852.9	2910.0	2969.9	3004.1	3012.8	3038.5
27.5°	2575.9	2587.2	2641.5	2684.4	2715.8	2732.9	2792.9	2855.8	2881.4	2890.0	2915.6
30°	2450.1	2453.0	2507.2	2544.4	2575.9	2590.1	2641.5	2707.2	2727.1	2735.8	2772.9
32.5°	2296.0	2293.1	2344.5	2378.8	2404.5	2421.6	2475.9	2518.8	2538.8	2553.0	2573.0
35°	2110.4	2107.5	2144.6	2184.6	2204.6	2210.2	2264.5	2310.2	2321.6	2333.1	2358.8
37.5°	1901.9	1901.9	1933.2	1953.2	1976.1	1984.8	2010.4	2061.8	2081.8	2079.0	2098.9
40°	1682.0	1670.6	1693.4	1713.4	1719.1	1722.0	1747.6	1787.6	1802.0	1802.0	1816.2
42.5°	1450.8	1433.5	1436.4	1447.9	1453.5	1433.5	1450.8	1476.4	1467.9	1479.2	1482.1
45°	1205.1	1179.4	1168.0	1142.2	1148.0	1128.0	1116.6	1122.2	1119.4	1090.9	1096.6
47.5°	1005.2	959.5	939.5	902.4	893.9	871.0	856.8	831.0	808.1	808.1	793.9
50°	836.8	791.0	751.0	708.2	693.9	674.0	642.5	608.2	591.1	574.0	559.8
52.5°	702.5	654.0	605.4	559.8	539.8	514.0	471.2	436.9	405.5	388.4	371.2
55°	594.0	539.8	488.4	439.8	414.1	388.4	345.5	305.5	268.4	245.6	231.2
57.5°	511.1	459.8	405.5	354.1	331.2	302.8	257.0	214.1	179.9	154.2	139.9
60°	451.2	399.8	351.2	297.0	274.1	245.6	197.0	157.1	122.8	100.0	82.9
62.5°	399.8	354.1	302.8	254.1	231.2	202.8	157.1	117.1	85.6	62.9	48.5
65°	362.6	317.0	274.1	225.6	205.6	177.0	134.2	97.1	68.5	48.5	34.2
67.5°	319.9	279.9	237.0	197.0	177.0	154.2	114.2	82.9	57.1	40.0	28.5
70°	268.4	237.0	199.9	162.8	148.5	128.5	94.2	68.5	45.8	31.4	22.9
72.5°	214.1	188.5	159.9	131.4	120.0	100.0	77.1	54.2	34.2	22.9	17.1
75°	162.8	142.8	120.0	100.0	88.5	77.1	57.1	40.0	25.8	17.1	11.4
77.5°	111.4	102.8	85.6	68.5	62.9	54.2	37.1	25.8	17.1	11.4	5.8
80°	77.1	68.5	57.1	45.8	40.0	34.2	22.9	17.1	8.6	5.8	2.9
82.5°	48.5	40.0	34.2	28.5	25.8	20.0	14.2	8.6	5.8	2.9	2.9
85°	25.8	22.9	20.0	14.2	14.2	11.4	8.6	5.8	2.9	0.0	0.0
87.5°	14.2	11.4	8.6	5.8	5.8	2.9	2.9	2.9	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°	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0
2.5°	3004.1	3004.1	3001.4	3035.6	2995.6	3035.6	3015.6	3035.6	3007.0	3004.1	3007.0
5°	3027.0	3035.6	3038.5	3069.9	3032.8	3081.2	3064.1	3081.2	3061.2	3067.0	3075.6
7.5°	3072.8	3087.0	3084.1	3124.1	3087.0	3141.2	3129.9	3155.5	3135.5	3141.2	3152.6
10°	3124.1	3141.2	3144.1	3184.1	3149.9	3215.5	3201.2	3229.8	3212.6	3221.2	3235.5
12.5°	3184.1	3204.1	3207.0	3252.6	3215.5	3284.0	3275.5	3304.0	3289.8	3298.4	3315.5
15°	3229.8	3258.4	3264.0	3309.8	3269.8	3341.1	3335.5	3372.6	3349.8	3364.0	3378.2
17.5°	3252.6	3278.4	3289.8	3332.6	3298.4	3369.8	3364.0	3395.4	3378.2	3392.5	3409.8
20°	3238.4	3269.8	3278.4	3321.1	3286.9	3358.2	3349.8	3381.1	3364.0	3375.4	3392.5
22.5°	3187.0	3218.4	3229.8	3269.8	3238.4	3304.0	3301.1	3329.8	3306.9	3321.1	3335.5
25°	3095.6	3129.9	3135.5	3172.6	3138.4	3207.0	3201.2	3232.6	3215.5	3224.1	3244.1
27.5°	2964.2	3004.1	3012.8	3044.1	3018.5	3075.6	3075.6	3101.2	3081.2	3081.2	3101.2
30°	2807.1	2847.1	2852.9	2878.5	2855.8	2907.1	2910.0	2935.6	2904.2	2921.4	2924.2
32.5°	2615.8	2641.5	2658.6	2681.5	2647.2	2712.9	2704.4	2724.4	2707.2	2707.2	2721.5
35°	2384.5	2415.9	2424.5	2453.0	2424.5	2475.9	2475.9	2487.2	2470.1	2470.1	2493.0
37.5°	2133.2	2156.0	2158.9	2187.5	2164.6	2207.5	2204.6	2213.1	2196.0	2207.5	2207.5
40°	1839.1	1856.2	1861.9	1876.2	1873.4	1904.8	1901.9	1907.6	1899.0	1901.9	1907.6
42.5°	1496.4	1519.2	1530.6	1542.1	1525.0	1567.8	1559.2	1567.8	1564.9	1567.8	1576.4
45°	1102.2	1119.4	1128.0	1130.9	1125.1	1150.9	1170.9	1153.8	1156.5	1150.9	1162.2
47.5°	796.8	799.6	793.9	811.0	796.8	808.1	813.9	816.8	799.6	796.8	808.1
50°	545.4	559.8	539.8	548.2	545.4	556.9	551.1	554.0	536.9	545.4	539.8
52.5°	362.6	359.9	354.1	357.0	351.2	351.2	351.2	357.0	345.5	339.9	334.1
55°	219.9	214.1	202.8	199.9	199.9	202.8	197.0	191.4	191.4	188.5	188.5
57.5°	128.5	120.0	114.2	111.4	105.6	102.8	100.0	100.0	94.2	94.2	94.2
60°	71.4	62.9	57.1	51.4	51.4	48.5	45.8	42.9	42.9	42.9	40.0
62.5°	37.1	31.4	25.8	22.9	22.9	20.0	17.1	17.1	17.1	17.1	14.2
65°	25.8	20.0	17.1	14.2	14.2	11.4	11.4	11.4	11.4	11.4	11.4
67.5°	20.0	17.1	14.2	11.4	11.4	11.4	8.6	8.6	8.6	8.6	8.6
70°	17.1	11.4	11.4	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
72.5°	11.4	11.4	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	8.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	2.9	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: P252186

CATALOG NUMBER: LE_6B40D010 EC6B30509027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0	2987.0
2.5°	3032.8	3029.9	3032.8	3038.5	3027.0	3061.2	3044.1	3061.2
5°	3098.4	3101.2	3104.1	3112.8	3098.4	3141.2	3118.4	3144.1
7.5°	3184.1	3187.0	3189.8	3198.4	3189.8	3232.6	3207.0	3229.8
10°	3272.6	3278.4	3278.4	3292.6	3284.0	3324.0	3306.9	3335.5
12.5°	3355.4	3361.1	3366.9	3375.4	3369.8	3412.5	3398.2	3421.1
15°	3421.1	3432.5	3435.4	3446.9	3441.1	3486.8	3469.6	3492.5
17.5°	3452.5	3464.0	3464.0	3478.2	3472.5	3521.1	3498.2	3523.9
20°	3435.4	3444.0	3446.9	3461.1	3455.4	3503.9	3481.1	3512.5
22.5°	3381.1	3384.0	3386.9	3401.1	3398.2	3441.1	3421.1	3441.1
25°	3281.1	3289.8	3286.9	3298.4	3298.4	3332.6	3309.8	3326.9
27.5°	3138.4	3147.0	3147.0	3161.2	3149.9	3184.1	3161.2	3187.0
30°	2964.2	2972.8	2967.0	2978.5	2967.0	3001.4	2984.2	2992.8
32.5°	2755.8	2755.8	2758.6	2761.5	2755.8	2787.1	2770.0	2787.1
35°	2507.2	2513.0	2515.9	2518.8	2513.0	2535.9	2515.9	2527.2
37.5°	2227.5	2241.8	2238.9	2241.8	2233.1	2261.8	2244.6	2250.2
40°	1927.6	1927.6	1924.8	1930.5	1921.9	1944.8	1933.2	1939.0
42.5°	1579.2	1587.8	1576.4	1590.6	1567.8	1599.1	1587.8	1579.2
45°	1185.1	1173.8	1170.9	1173.8	1165.1	1168.0	1176.5	1170.9
47.5°	808.1	808.1	802.5	793.9	805.2	808.1	796.8	796.8
50°	542.6	542.6	536.9	534.0	539.8	536.9	531.1	539.8
52.5°	345.5	334.1	334.1	339.9	334.1	328.4	337.0	331.2
55°	188.5	182.8	182.8	188.5	182.8	182.8	179.9	185.6
57.5°	91.4	94.2	91.4	91.4	91.4	91.4	88.5	91.4
60°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
62.5°	17.1	17.1	14.2	14.2	14.2	14.2	14.2	14.2
65°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
67.5°	8.6	8.6	8.6	8.6	8.6	11.4	8.6	8.6
70°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
72.5°	8.6	8.6	11.4	11.4	11.4	11.4	11.4	11.4
75°	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9
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)