

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: P252422

Luminaire Tested: **LE_6B60D010R EC6B60709035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60709035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5847.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

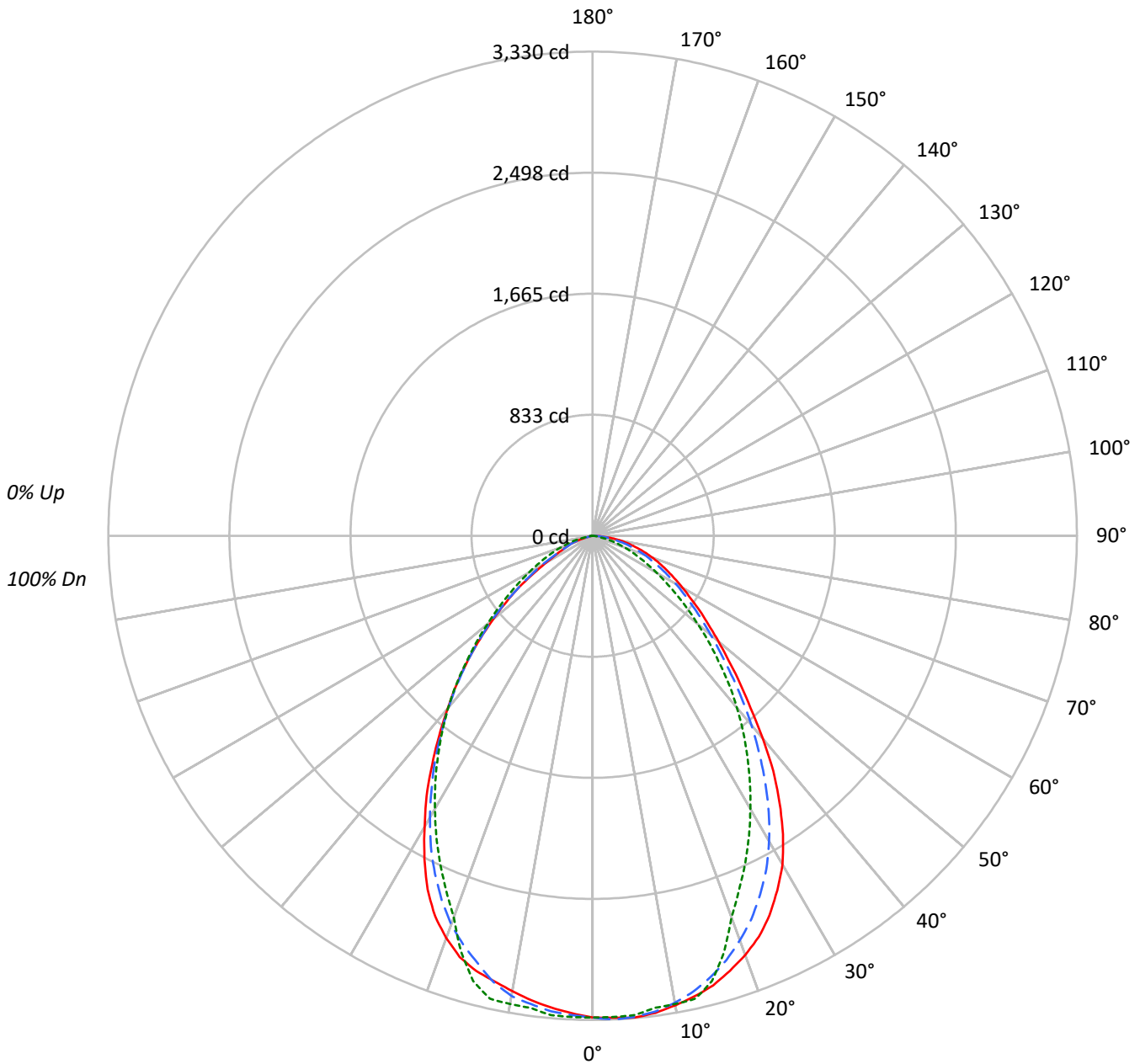
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	216155	216155	216155
5°	217826	216706	213313
10°	217218	216641	210659
15°	216229	214189	209252
20°	213004	193884	204339
25°	207216	178725	193280
30°	196763	163368	174065
35°	178554	147700	153187
40°	155010	131564	131921
45°	132205	113153	111953
50°	114427	95650	90413
55°	102278	79780	69998
60°	93190	66258	47169
65°	87004	54478	35197
70°	82900	44330	29547
75°	78091	31458	9780
80°	74352	16155	3231
85°	61232	9656	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	5.4
10°-20°	875.1	15.0
20°-30°	1207.9	20.7
30°-40°	1229.2	21.0
40°-50°	987.8	16.9
50°-60°	656.8	11.2
60°-70°	374.3	6.4
70°-80°	168.1	2.9
80°-90°	35.4	0.6
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°	2395.8	41.0
0°-40°	3625.0	62.0
0°-60°	5269.7	90.1
0°-90°	5847.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5847.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3313	3313	3313	3313	3313	
5°	3326	3322	3309	3283	3257	316
15°	3201	3141	3171	3046	3098	901
25°	2879	2724	2483	2564	2685	1319
35°	2242	2070	1854	1889	1923	1393
45°	1433	1347	1226	1213	1213	1111
55°	899	839	701	624	615	808
65°	564	504	353	228	228	561
75°	310	258	125	52	39	331
85°	82	56	13	4	0	97
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°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3317.5	3334.8	3330.5	3326.1	3330.5	3326.1	3317.5	3317.5	3309.0	3309.0	3330.5
5°	3326.1	3334.8	3330.5	3326.1	3326.1	3330.5	3313.2	3313.2	3304.6	3300.4	3321.9
7.5°	3309.0	3321.9	3313.2	3313.2	3309.0	3313.2	3296.0	3296.0	3283.1	3278.9	3300.4
10°	3278.9	3296.0	3287.4	3287.4	3287.4	3278.9	3270.2	3265.9	3253.0	3248.8	3261.6
12.5°	3244.4	3257.2	3253.0	3244.4	3244.4	3244.4	3227.1	3222.9	3205.6	3197.1	3210.0
15°	3201.4	3210.0	3205.6	3201.4	3192.8	3192.8	3175.5	3167.0	3149.8	3132.5	3141.1
17.5°	3136.9	3149.8	3141.1	3136.9	3123.9	3123.9	3106.8	3098.1	3072.2	3055.1	3059.4
20°	3068.0	3072.2	3068.0	3059.4	3046.5	3042.1	3025.0	3007.8	2986.2	2964.8	2960.4
22.5°	2986.2	2990.5	2977.6	2969.0	2956.1	2951.8	2930.2	2917.4	2883.0	2857.1	2852.9
25°	2878.6	2883.0	2883.0	2861.4	2852.9	2844.2	2822.8	2801.2	2771.1	2736.6	2723.8
27.5°	2749.5	2762.5	2753.9	2732.4	2715.1	2710.9	2689.4	2672.1	2633.4	2603.2	2586.0
30°	2611.9	2607.6	2603.2	2590.4	2564.5	2560.2	2538.8	2517.2	2487.1	2448.4	2426.9
32.5°	2435.5	2435.5	2431.1	2418.2	2392.4	2383.9	2366.6	2340.8	2306.4	2276.2	2254.8
35°	2241.9	2246.1	2241.9	2216.0	2198.8	2190.1	2181.6	2151.5	2121.4	2086.9	2069.8
37.5°	2039.6	2026.6	2031.0	2009.5	1988.0	1996.5	1970.8	1957.9	1923.4	1897.6	1880.4
40°	1820.1	1828.8	1811.5	1802.9	1790.0	1777.1	1777.1	1755.6	1738.4	1708.2	1699.6
42.5°	1605.0	1617.9	1613.6	1605.0	1587.8	1592.1	1570.6	1562.0	1540.5	1527.5	1514.6
45°	1432.9	1432.9	1432.9	1424.2	1420.0	1411.4	1398.5	1385.5	1372.6	1355.4	1346.8
47.5°	1265.0	1265.0	1269.4	1260.8	1252.1	1247.9	1239.2	1239.2	1217.8	1200.5	1191.9
50°	1127.4	1127.4	1127.4	1118.8	1110.1	1110.1	1101.5	1093.0	1080.0	1067.1	1058.5
52.5°	1002.6	1002.6	1002.6	994.0	989.6	985.4	981.1	976.8	959.5	951.0	942.4
55°	899.2	895.0	895.0	890.8	882.1	882.1	877.8	869.2	856.2	843.4	839.1
57.5°	796.0	800.4	796.0	796.0	787.4	787.4	778.9	774.5	761.6	753.0	744.4
60°	714.2	714.2	714.2	710.0	701.4	705.6	697.1	692.8	679.9	667.0	658.4
62.5°	632.5	636.9	636.9	632.5	623.9	623.9	619.6	615.4	602.4	589.5	576.6
65°	563.6	563.6	563.6	559.4	555.1	555.1	550.8	546.5	533.5	516.4	503.5
67.5°	499.1	494.9	494.9	494.9	490.5	486.2	481.9	477.6	464.8	451.8	434.6
70°	434.6	434.6	434.6	430.2	421.6	426.0	421.6	417.4	404.5	391.6	378.6
72.5°	374.4	374.4	370.0	365.8	365.8	361.5	361.5	357.1	344.2	327.0	314.1
75°	309.8	309.8	309.8	309.8	301.2	305.5	296.9	292.6	284.0	271.1	258.1
77.5°	253.9	253.9	253.9	249.6	245.2	245.2	241.0	236.6	223.8	215.1	197.9
80°	197.9	197.9	197.9	197.9	193.6	189.4	185.0	180.8	172.1	159.2	146.2
82.5°	146.2	146.2	142.0	142.0	142.0	137.8	133.4	129.1	120.5	111.9	103.2
85°	81.8	86.0	86.0	77.5	81.8	77.5	77.5	68.9	68.9	60.2	56.0
87.5°	30.1	25.9	25.9	25.9	25.9	25.9	25.9	21.5	21.5	21.5	17.2
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°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3313.2	3309.0	3326.1	3326.1	3300.4	3313.2	3317.5	3309.0	3309.0	3313.2	3300.4
5°	3304.6	3296.0	3313.2	3317.5	3291.8	3304.6	3309.0	3300.4	3304.6	3309.0	3291.8
7.5°	3274.5	3274.5	3287.4	3291.8	3265.9	3278.9	3278.9	3270.2	3274.5	3274.5	3261.6
10°	3244.4	3231.5	3244.4	3244.4	3222.9	3227.1	3235.8	3231.5	3248.8	3270.2	3270.2
12.5°	3188.5	3175.5	3197.1	3197.1	3184.1	3201.4	3222.9	3235.8	3253.0	3261.6	3235.8
15°	3119.6	3123.9	3162.6	3192.8	3179.9	3205.6	3227.1	3218.6	3197.1	3171.2	3132.5
17.5°	3029.2	3016.4	3050.8	3068.0	3050.8	3059.4	3076.6	3059.4	3025.0	3003.4	2951.8
20°	2926.0	2891.5	2891.5	2883.0	2852.9	2852.9	2848.5	2818.4	2805.5	2792.6	2771.1
22.5°	2809.8	2771.1	2758.1	2732.4	2706.5	2702.2	2689.4	2659.2	2642.0	2633.4	2607.6
25°	2676.4	2642.0	2620.5	2594.6	2555.9	2547.4	2534.4	2504.2	2495.8	2482.8	2461.2
27.5°	2538.8	2495.8	2465.6	2439.8	2405.4	2401.0	2375.2	2353.8	2336.5	2327.9	2310.6
30°	2379.5	2332.1	2310.6	2276.2	2250.4	2241.9	2220.2	2190.1	2177.2	2168.6	2155.8
32.5°	2203.1	2164.4	2142.9	2112.8	2078.2	2082.6	2056.8	2031.0	2022.4	2013.8	2000.9
35°	2031.0	1992.2	1966.4	1940.6	1919.1	1910.5	1893.2	1871.8	1858.9	1854.5	1846.0
37.5°	1841.6	1811.5	1790.0	1764.2	1747.0	1738.4	1729.8	1708.2	1699.6	1699.6	1682.5
40°	1656.6	1630.8	1613.6	1600.6	1579.1	1574.9	1566.2	1553.4	1549.0	1544.8	1531.9
42.5°	1488.8	1454.4	1441.5	1432.9	1420.0	1411.4	1407.0	1398.5	1394.1	1389.9	1376.9
45°	1329.6	1299.5	1286.6	1278.0	1265.0	1260.8	1256.5	1243.5	1234.9	1226.4	1222.0
47.5°	1174.8	1153.1	1148.9	1127.4	1118.8	1110.1	1101.5	1093.0	1088.6	1084.4	1067.1
50°	1041.2	1028.4	1006.9	994.0	985.4	981.1	963.9	951.0	946.6	942.4	929.4
52.5°	920.9	903.6	890.8	869.2	864.9	856.2	847.6	830.5	821.9	817.5	804.6
55°	813.2	800.4	783.1	765.9	753.0	748.8	735.8	718.6	710.0	701.4	692.8
57.5°	722.9	701.4	684.1	667.0	658.4	645.4	632.5	623.9	611.0	598.1	585.2
60°	636.9	619.6	598.1	580.9	572.2	563.6	546.5	533.5	520.6	507.8	494.9
62.5°	555.1	537.9	516.4	499.1	490.5	481.9	464.8	451.8	438.9	426.0	408.8
65°	481.9	464.8	447.5	430.2	421.6	413.1	395.9	378.6	365.8	352.9	335.6
67.5°	421.6	400.1	383.0	365.8	357.1	348.5	331.4	318.4	301.2	288.2	271.1
70°	357.1	339.9	327.0	309.8	301.2	292.6	275.4	258.1	245.2	232.4	215.1
72.5°	301.2	279.8	266.8	249.6	241.0	236.6	219.5	206.5	193.6	176.4	163.5
75°	241.0	223.8	206.5	193.6	185.0	180.8	163.5	150.6	137.8	124.8	111.9
77.5°	185.0	172.1	154.9	142.0	133.4	129.1	111.9	99.0	86.0	77.5	64.5
80°	137.8	120.5	111.9	99.0	94.6	86.0	77.5	64.5	56.0	43.0	34.4
82.5°	94.6	81.8	73.1	64.5	60.2	56.0	47.4	38.8	30.1	25.9	21.5
85°	51.6	43.0	38.8	34.4	30.1	30.1	25.9	21.5	17.2	12.9	8.6
87.5°	17.2	12.9	12.9	12.9	12.9	8.6	8.6	8.6	4.2	4.2	4.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3309.0	3309.0	3309.0	3304.6	3304.6	3304.6	3300.4	3317.5	3300.4	3296.0	3309.0
5°	3304.6	3296.0	3296.0	3296.0	3296.0	3291.8	3287.4	3296.0	3283.1	3278.9	3278.9
7.5°	3278.9	3274.5	3274.5	3270.2	3265.9	3261.6	3257.2	3261.6	3248.8	3244.4	3244.4
10°	3283.1	3274.5	3274.5	3261.6	3253.0	3240.1	3227.1	3231.5	3214.2	3201.4	3201.4
12.5°	3231.5	3210.0	3197.1	3184.1	3175.5	3171.2	3154.0	3162.6	3145.4	3141.1	3141.1
15°	3115.2	3089.5	3068.0	3059.4	3059.4	3050.8	3037.9	3055.1	3046.5	3050.8	3072.2
17.5°	2934.6	2921.6	2908.8	2904.5	2908.8	2917.4	2926.0	2951.8	2951.8	2964.8	2986.2
20°	2775.4	2766.8	2775.4	2775.4	2779.6	2796.9	2814.1	2835.6	2844.2	2857.1	2887.2
22.5°	2620.5	2620.5	2629.1	2642.0	2637.6	2667.8	2672.1	2710.9	2710.9	2736.6	2762.5
25°	2469.9	2469.9	2478.5	2482.8	2491.4	2508.6	2525.8	2555.9	2564.5	2590.4	2611.9
27.5°	2323.6	2319.2	2319.2	2323.6	2332.1	2353.8	2362.2	2396.8	2409.6	2426.9	2448.4
30°	2160.0	2155.8	2164.4	2173.0	2168.6	2190.1	2203.1	2228.9	2237.5	2254.8	2272.0
32.5°	2005.1	2005.1	2005.1	2013.8	2013.8	2031.0	2031.0	2061.1	2061.1	2074.0	2091.2
35°	1846.0	1846.0	1850.2	1854.5	1858.9	1863.1	1867.5	1884.6	1889.0	1893.2	1901.9
37.5°	1695.4	1691.0	1695.4	1695.4	1686.8	1704.0	1704.0	1721.1	1708.2	1721.1	1725.5
40°	1540.5	1540.5	1536.1	1536.1	1536.1	1544.8	1536.1	1549.0	1540.5	1549.0	1544.8
42.5°	1381.2	1381.2	1372.6	1381.2	1376.9	1376.9	1376.9	1385.5	1372.6	1381.2	1385.5
45°	1222.0	1217.8	1217.8	1213.4	1213.4	1213.4	1217.8	1217.8	1213.4	1222.0	1222.0
47.5°	1067.1	1062.9	1062.9	1062.9	1062.9	1067.1	1054.2	1062.9	1054.2	1054.2	1054.2
50°	933.8	929.4	925.1	920.9	916.5	916.5	912.2	912.2	903.6	899.2	895.0
52.5°	804.6	800.4	791.8	791.8	787.4	783.1	770.2	770.2	757.4	753.0	753.0
55°	688.5	675.5	671.2	662.6	662.6	654.0	645.4	636.9	623.9	615.4	615.4
57.5°	580.9	568.0	559.4	555.1	550.8	542.1	525.0	520.6	503.5	499.1	494.9
60°	486.2	473.4	460.4	451.8	447.5	434.6	417.4	408.8	400.1	387.2	374.4
62.5°	395.9	383.0	365.8	361.5	352.9	339.9	327.0	314.1	305.5	292.6	284.0
65°	318.4	305.5	292.6	284.0	275.4	262.5	249.6	236.6	228.0	223.8	219.5
67.5°	258.1	241.0	228.0	223.8	215.1	206.5	193.6	189.4	180.8	180.8	180.8
70°	202.2	189.4	176.4	172.1	167.9	159.2	150.6	150.6	150.6	150.6	150.6
72.5°	150.6	142.0	129.1	124.8	120.5	116.1	107.6	111.9	107.6	107.6	107.6
75°	94.6	86.0	77.5	73.1	68.9	64.5	60.2	56.0	51.6	47.4	47.4
77.5°	51.6	43.0	38.8	34.4	34.4	30.1	25.9	25.9	21.5	21.5	21.5
80°	30.1	25.9	21.5	17.2	17.2	12.9	12.9	12.9	12.9	8.6	8.6
82.5°	17.2	12.9	8.6	8.6	8.6	8.6	4.2	4.2	4.2	4.2	4.2
85°	8.6	8.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P252422

CATALOG NUMBER: LE_6B60D010R EC6B60709035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3287.4	3300.4	3287.4	3300.4	3300.4	3300.4	3300.4	3287.4
5°	3265.9	3274.5	3261.6	3270.2	3274.5	3270.2	3270.2	3257.2
7.5°	3227.1	3235.8	3222.9	3235.8	3240.1	3235.8	3231.5	3222.9
10°	3188.5	3192.8	3179.9	3188.5	3197.1	3197.1	3192.8	3179.9
12.5°	3128.2	3141.1	3128.2	3136.9	3145.4	3149.8	3149.8	3136.9
15°	3059.4	3080.9	3072.2	3085.2	3098.1	3102.4	3102.4	3098.1
17.5°	2990.5	3012.0	2999.1	3020.6	3033.5	3042.1	3046.5	3037.9
20°	2891.5	2917.4	2908.8	2926.0	2943.2	2956.1	2956.1	2943.2
22.5°	2762.5	2796.9	2792.6	2805.5	2827.0	2831.4	2839.9	2831.4
25°	2620.5	2646.2	2642.0	2654.9	2680.8	2680.8	2685.0	2685.0
27.5°	2457.0	2482.8	2478.5	2487.1	2504.2	2508.6	2512.9	2504.2
30°	2280.5	2293.5	2293.5	2306.4	2319.2	2323.6	2323.6	2310.6
32.5°	2086.9	2104.1	2112.8	2108.4	2121.4	2130.0	2125.6	2125.6
35°	1910.5	1914.8	1919.1	1923.4	1927.8	1936.2	1927.8	1923.4
37.5°	1721.1	1734.1	1725.5	1734.1	1742.6	1738.4	1734.1	1734.1
40°	1549.0	1553.4	1544.8	1553.4	1557.6	1557.6	1557.6	1549.0
42.5°	1376.9	1385.5	1376.9	1385.5	1385.5	1385.5	1385.5	1381.2
45°	1204.9	1213.4	1213.4	1217.8	1217.8	1213.4	1213.4	1213.4
47.5°	1045.6	1054.2	1045.6	1054.2	1058.5	1049.9	1049.9	1049.9
50°	895.0	890.8	890.8	895.0	895.0	895.0	895.0	890.8
52.5°	740.1	744.4	744.4	744.4	748.8	744.4	748.8	748.8
55°	606.8	606.8	606.8	611.0	606.8	606.8	611.0	615.4
57.5°	486.2	481.9	477.6	477.6	481.9	477.6	477.6	477.6
60°	374.4	370.0	365.8	365.8	365.8	365.8	365.8	361.5
62.5°	279.8	279.8	279.8	284.0	284.0	284.0	284.0	288.2
65°	223.8	223.8	223.8	223.8	223.8	223.8	223.8	228.0
67.5°	180.8	180.8	180.8	185.0	185.0	185.0	185.0	185.0
70°	150.6	150.6	154.9	150.6	154.9	154.9	154.9	154.9
72.5°	103.2	103.2	103.2	103.2	103.2	99.0	103.2	99.0
75°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	38.8
77.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	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)