

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: io LED

Report Number: P252216

Luminaire Tested: **LD6B60D010TE EU6B60709050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252216
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: io LED
Catalog Number: LD6B60D010TE EU6B60709050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6625.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

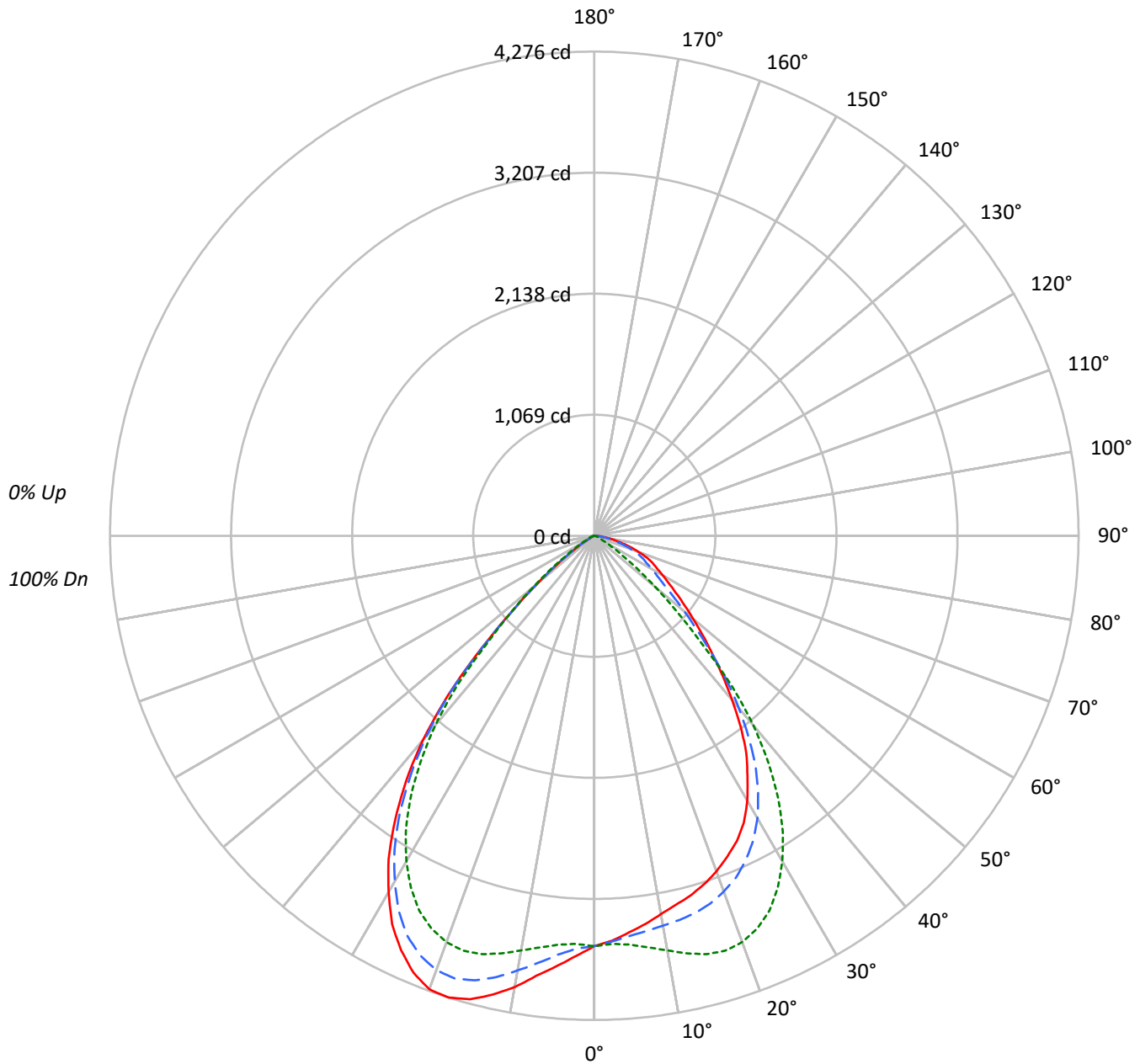
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	103		109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89		102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	89	83	78		95	88	82	78		85	80	76		83	78	75		80	77	74
4	91	82	75	69		89	80	74	69		78	72	68		76	71	67		74	70	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	61	56		78	68	61	56		66	60	55		64	59	55		63	58	54
7	74	63	56	51		73	62	55	50		61	55	50		60	54	50		58	53	50
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	42		64	54	47	42		53	46	42		52	46	42		51	45	42
10	62	50	43	39		61	50	43	39		49	43	39		48	43	39		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	236458	236458	236458
5°	230328	237361	249844
10°	224723	246307	268109
15°	222099	258375	286223
20°	218919	265102	295901
25°	214256	263149	290582
30°	203604	250069	273558
35°	186280	225464	244229
40°	161125	186206	200369
45°	135868	122121	131080
50°	115351	70692	66470
55°	100106	33896	25615
60°	90424	15827	6328
65°	87730	9093	2146
70°	78647	7268	1984
75°	64631	5243	882
80°	48165	2592	0
85°	41470	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	5.3
10°-20°	1066.9	16.1
20°-30°	1630.2	24.6
30°-40°	1705.0	25.7
40°-50°	1106.0	16.7
50°-60°	439.2	6.6
60°-70°	208.3	3.1
70°-80°	99.1	1.5
80°-90°	20.2	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°	3047.2	46.0
0°-40°	4752.2	71.7
0°-60°	6297.4	95.1
0°-90°	6625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6625.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3624	3624	3624	3624	3624	
5°	3517	3548	3624	3714	3815	332
15°	3288	3448	3825	4064	4238	927
25°	2976	3164	3656	3902	4037	1363
35°	2339	2481	2831	2997	3066	1446
45°	1473	1459	1324	1403	1421	1146
55°	880	748	298	232	225	797
65°	568	471	59	14	14	555
75°	256	208	21	7	4	277
85°	55	35	0	0	0	65
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°	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4
2.5°	3579.4	3586.3	3548.2	3537.8	3565.5	3575.9	3579.4	3569.0	3572.4	3586.3	3586.3
5°	3517.0	3523.9	3489.3	3478.9	3506.6	3513.5	3523.9	3520.4	3530.8	3551.6	3548.2
7.5°	3458.1	3468.5	3430.4	3416.5	3451.1	3468.5	3475.4	3475.4	3489.3	3517.0	3520.4
10°	3392.2	3406.1	3371.5	3364.5	3402.6	3420.0	3423.4	3430.4	3451.1	3489.3	3496.2
12.5°	3336.8	3350.7	3326.4	3316.0	3357.6	3374.9	3381.8	3395.7	3420.0	3468.5	3475.4
15°	3288.3	3298.7	3271.0	3264.0	3305.6	3326.4	3329.9	3350.7	3381.8	3437.3	3447.7
17.5°	3225.9	3232.9	3212.1	3205.1	3246.7	3267.5	3271.0	3295.2	3333.3	3388.8	3406.1
20°	3153.2	3160.1	3139.3	3132.4	3173.9	3198.2	3201.7	3222.5	3267.5	3326.4	3343.7
22.5°	3066.5	3080.4	3056.1	3049.2	3090.8	3111.6	3122.0	3139.3	3184.3	3243.2	3267.5
25°	2976.4	2976.4	2959.1	2955.7	2993.8	3018.0	3014.6	3038.8	3083.9	3142.8	3163.6
27.5°	2858.6	2855.2	2837.8	2834.4	2876.0	2896.7	2889.8	2914.1	2955.7	3014.6	3035.3
30°	2702.7	2709.6	2685.4	2678.5	2713.1	2747.8	2744.3	2768.5	2810.1	2865.6	2879.4
32.5°	2515.6	2522.5	2519.1	2508.7	2539.9	2557.2	2567.6	2584.9	2619.5	2678.5	2692.3
35°	2338.9	2328.5	2314.6	2314.6	2345.8	2373.5	2363.1	2383.9	2418.6	2477.5	2480.9
37.5°	2120.6	2117.1	2110.2	2103.3	2137.9	2144.8	2148.3	2162.2	2193.3	2241.9	2234.9
40°	1891.9	1895.4	1891.9	1878.0	1898.8	1926.5	1923.1	1930.0	1957.7	1992.4	1982.0
42.5°	1677.1	1677.1	1677.1	1663.2	1687.5	1701.3	1708.2	1704.8	1711.7	1742.9	1729.0
45°	1472.6	1476.1	1472.6	1469.2	1472.6	1479.6	1472.6	1469.2	1469.2	1479.6	1458.8
47.5°	1295.9	1295.9	1285.5	1275.1	1285.5	1289.0	1278.6	1268.2	1264.7	1261.3	1226.6
50°	1136.5	1133.1	1129.6	1112.3	1122.7	1126.1	1112.3	1105.3	1091.5	1074.2	1032.6
52.5°	997.9	994.5	991.0	973.7	980.6	984.1	970.2	956.3	939.0	925.2	873.2
55°	880.1	876.6	876.6	866.3	859.3	866.3	852.4	842.0	817.7	800.4	748.4
57.5°	779.6	779.6	772.7	762.3	765.8	765.8	751.9	738.0	717.3	696.5	654.9
60°	693.0	693.0	693.0	682.6	682.6	682.6	675.7	661.8	644.5	623.7	582.1
62.5°	623.7	623.7	620.2	609.8	613.3	613.3	606.4	592.5	575.2	561.3	519.8
65°	568.3	568.3	568.3	557.9	557.9	561.3	554.4	540.5	526.7	509.4	471.2
67.5°	499.0	495.5	495.5	488.6	492.0	495.5	488.6	478.2	460.8	450.5	415.8
70°	412.3	415.8	419.3	408.9	412.3	412.3	408.9	398.5	388.1	377.7	346.5
72.5°	336.1	336.1	332.6	329.2	329.2	332.6	325.7	315.3	308.4	301.5	277.2
75°	256.4	252.9	256.4	249.5	249.5	249.5	242.6	239.1	235.6	225.2	207.9
77.5°	187.1	183.6	183.6	176.7	180.2	180.2	176.7	169.8	162.9	159.4	145.5
80°	128.2	128.2	128.2	124.7	124.7	121.3	121.3	117.8	110.9	107.4	100.5
82.5°	86.6	86.6	86.6	83.2	83.2	83.2	79.7	76.2	72.8	69.3	62.4
85°	55.4	55.4	55.4	52.0	52.0	52.0	48.5	48.5	45.0	41.6	34.7
87.5°	31.2	31.2	31.2	27.7	27.7	27.7	27.7	27.7	24.3	20.8	17.3
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°	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4
2.5°	3610.5	3562.0	3593.2	3593.2	3582.8	3610.5	3627.9	3641.7	3638.3	3607.1	3603.6
5°	3582.8	3541.2	3575.9	3579.4	3569.0	3607.1	3631.3	3648.7	3652.1	3624.4	3627.9
7.5°	3562.0	3527.4	3572.4	3586.3	3582.8	3617.5	3645.2	3672.9	3686.8	3666.0	3669.4
10°	3551.6	3523.9	3572.4	3593.2	3596.7	3634.8	3676.4	3714.5	3731.8	3718.0	3728.3
12.5°	3537.8	3520.4	3575.9	3607.1	3620.9	3659.0	3711.0	3756.1	3783.8	3776.9	3797.6
15°	3523.9	3510.1	3575.9	3620.9	3638.3	3672.9	3731.8	3797.6	3828.8	3825.4	3853.1
17.5°	3489.3	3485.8	3555.1	3603.6	3627.9	3669.4	3724.9	3804.6	3835.8	3842.7	3877.3
20°	3433.8	3433.8	3510.1	3562.0	3589.7	3627.9	3697.2	3773.4	3811.5	3818.4	3856.6
22.5°	3357.6	3364.5	3437.3	3489.3	3530.8	3558.6	3631.3	3711.0	3745.7	3756.1	3797.6
25°	3257.1	3264.0	3333.3	3385.3	3430.4	3461.5	3530.8	3603.6	3645.2	3655.6	3686.8
27.5°	3125.4	3139.3	3205.1	3257.1	3295.2	3316.0	3388.8	3465.0	3496.2	3506.6	3537.8
30°	2973.0	2976.4	3042.3	3087.3	3125.4	3142.8	3205.1	3284.8	3309.1	3319.5	3364.5
32.5°	2785.9	2782.4	2844.8	2886.4	2917.5	2938.3	3004.2	3056.1	3080.4	3097.7	3122.0
35°	2560.6	2557.2	2602.2	2650.7	2675.0	2681.9	2747.8	2803.2	2817.1	2830.9	2862.1
37.5°	2307.7	2307.7	2345.8	2370.1	2397.8	2408.2	2439.4	2501.7	2526.0	2522.5	2546.8
40°	2040.9	2027.0	2054.7	2079.0	2085.9	2089.4	2120.6	2169.1	2186.4	2186.4	2203.7
42.5°	1760.2	1739.4	1742.9	1756.8	1763.7	1739.4	1760.2	1791.4	1781.0	1794.9	1798.3
45°	1462.2	1431.0	1417.2	1386.0	1392.9	1368.7	1354.8	1361.7	1358.3	1323.6	1330.6
47.5°	1219.7	1164.2	1140.0	1094.9	1084.5	1056.8	1039.5	1008.3	980.6	980.6	963.3
50°	1015.2	959.8	911.3	859.3	842.0	817.7	779.6	738.0	717.3	696.5	679.1
52.5°	852.4	793.5	734.6	679.1	654.9	623.7	571.7	530.1	492.0	471.2	450.5
55°	720.7	654.9	592.5	533.6	502.4	471.2	419.3	370.8	325.7	298.0	280.7
57.5°	620.2	557.9	492.0	429.7	401.9	367.3	311.9	259.9	218.3	187.1	169.8
60°	547.5	485.1	426.2	360.4	332.6	298.0	239.1	190.6	149.0	121.3	100.5
62.5°	485.1	429.7	367.3	308.4	280.7	246.0	190.6	142.1	104.0	76.2	58.9
65°	440.1	384.6	332.6	273.7	249.5	214.8	162.9	117.8	83.2	58.9	41.6
67.5°	388.1	339.6	287.6	239.1	214.8	187.1	138.6	100.5	69.3	48.5	34.7
70°	325.7	287.6	242.6	197.5	180.2	155.9	114.3	83.2	55.4	38.1	27.7
72.5°	259.9	228.7	194.0	159.4	145.5	121.3	93.6	65.8	41.6	27.7	20.8
75°	197.5	173.3	145.5	121.3	107.4	93.6	69.3	48.5	31.2	20.8	13.9
77.5°	135.1	124.7	104.0	83.2	76.2	65.8	45.0	31.2	20.8	13.9	6.9
80°	93.6	83.2	69.3	55.4	48.5	41.6	27.7	20.8	10.4	6.9	3.5
82.5°	58.9	48.5	41.6	34.7	31.2	24.3	17.3	10.4	6.9	3.5	3.5
85°	31.2	27.7	24.3	17.3	17.3	13.9	10.4	6.9	3.5	0.0	0.0
87.5°	17.3	13.9	10.4	6.9	6.9	3.5	3.5	3.5	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°	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4
2.5°	3645.2	3645.2	3641.7	3683.3	3634.8	3683.3	3659.0	3683.3	3648.7	3645.2	3648.7
5°	3672.9	3683.3	3686.8	3724.9	3679.8	3738.7	3718.0	3738.7	3714.5	3721.4	3731.8
7.5°	3728.3	3745.7	3742.2	3790.7	3745.7	3811.5	3797.6	3828.8	3804.6	3811.5	3825.4
10°	3790.7	3811.5	3815.0	3863.5	3821.9	3901.6	3884.3	3918.9	3898.1	3908.5	3925.9
12.5°	3863.5	3887.7	3891.2	3946.6	3901.6	3984.8	3974.4	4009.0	3991.7	4002.1	4022.9
15°	3918.9	3953.6	3960.5	4015.9	3967.4	4054.1	4047.1	4092.2	4064.5	4081.8	4099.1
17.5°	3946.6	3977.8	3991.7	4043.7	4002.1	4088.7	4081.8	4119.9	4099.1	4116.4	4137.2
20°	3929.3	3967.4	3977.8	4029.8	3988.2	4074.8	4064.5	4102.6	4081.8	4095.6	4116.4
22.5°	3866.9	3905.1	3918.9	3967.4	3929.3	4009.0	4005.5	4040.2	4012.5	4029.8	4047.1
25°	3756.1	3797.6	3804.6	3849.6	3808.0	3891.2	3884.3	3922.4	3901.6	3912.0	3936.2
27.5°	3596.7	3645.2	3655.6	3693.7	3662.5	3731.8	3731.8	3763.0	3738.7	3738.7	3763.0
30°	3406.1	3454.6	3461.5	3492.7	3465.0	3527.4	3530.8	3562.0	3523.9	3544.7	3548.2
32.5°	3173.9	3205.1	3225.9	3253.6	3212.1	3291.8	3281.4	3305.6	3284.8	3284.8	3302.2
35°	2893.3	2931.4	2941.8	2976.4	2941.8	3004.2	3004.2	3018.0	2997.2	2997.2	3025.0
37.5°	2588.4	2616.1	2619.5	2654.2	2626.5	2678.5	2675.0	2685.4	2664.6	2678.5	2678.5
40°	2231.5	2252.3	2259.2	2276.5	2273.0	2311.2	2307.7	2314.6	2304.2	2307.7	2314.6
42.5°	1815.7	1843.4	1857.2	1871.1	1850.3	1902.3	1891.9	1902.3	1898.8	1902.3	1912.7
45°	1337.5	1358.3	1368.7	1372.1	1365.2	1396.4	1420.7	1399.9	1403.3	1396.4	1410.3
47.5°	966.7	970.2	963.3	984.1	966.7	980.6	987.5	991.0	970.2	966.7	980.6
50°	661.8	679.1	654.9	665.3	661.8	675.7	668.7	672.2	651.4	661.8	654.9
52.5°	440.1	436.6	429.7	433.1	426.2	426.2	426.2	433.1	419.3	412.3	405.4
55°	266.8	259.9	246.0	242.6	242.6	246.0	239.1	232.2	232.2	228.7	228.7
57.5°	155.9	145.5	138.6	135.1	128.2	124.7	121.3	121.3	114.3	114.3	114.3
60°	86.6	76.2	69.3	62.4	62.4	58.9	55.4	52.0	52.0	52.0	48.5
62.5°	45.0	38.1	31.2	27.7	27.7	24.3	20.8	20.8	20.8	20.8	17.3
65°	31.2	24.3	20.8	17.3	17.3	13.9	13.9	13.9	13.9	13.9	13.9
67.5°	24.3	20.8	17.3	13.9	13.9	13.9	10.4	10.4	10.4	10.4	10.4
70°	20.8	13.9	13.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
72.5°	13.9	13.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
75°	10.4	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
80°	3.5	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: P252216

CATALOG NUMBER: LD6B60D010TE EU6B60709050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4	3624.4
2.5°	3679.8	3676.4	3679.8	3686.8	3672.9	3714.5	3693.7	3714.5
5°	3759.5	3763.0	3766.5	3776.9	3759.5	3811.5	3783.8	3815.0
7.5°	3863.5	3866.9	3870.4	3880.8	3870.4	3922.4	3891.2	3918.9
10°	3970.9	3977.8	3977.8	3995.2	3984.8	4033.3	4012.5	4047.1
12.5°	4071.4	4078.3	4085.2	4095.6	4088.7	4140.7	4123.4	4151.1
15°	4151.1	4164.9	4168.4	4182.3	4175.3	4230.8	4210.0	4237.7
17.5°	4189.2	4203.1	4203.1	4220.4	4213.4	4272.4	4244.6	4275.8
20°	4168.4	4178.8	4182.3	4199.6	4192.7	4251.6	4223.8	4262.0
22.5°	4102.6	4106.0	4109.5	4126.8	4123.4	4175.3	4151.1	4175.3
25°	3981.3	3991.7	3988.2	4002.1	4002.1	4043.7	4015.9	4036.7
27.5°	3808.0	3818.4	3818.4	3835.8	3821.9	3863.5	3835.8	3866.9
30°	3596.7	3607.1	3600.1	3614.0	3600.1	3641.7	3620.9	3631.3
32.5°	3343.7	3343.7	3347.2	3350.7	3343.7	3381.8	3361.1	3381.8
35°	3042.3	3049.2	3052.7	3056.1	3049.2	3076.9	3052.7	3066.5
37.5°	2702.7	2720.0	2716.6	2720.0	2709.6	2744.3	2723.5	2730.4
40°	2338.9	2338.9	2335.4	2342.3	2332.0	2359.7	2345.8	2352.7
42.5°	1916.1	1926.5	1912.7	1930.0	1902.3	1940.4	1926.5	1916.1
45°	1438.0	1424.1	1420.7	1424.1	1413.7	1417.2	1427.6	1420.7
47.5°	980.6	980.6	973.7	963.3	977.1	980.6	966.7	966.7
50°	658.4	658.4	651.4	648.0	654.9	651.4	644.5	654.9
52.5°	419.3	405.4	405.4	412.3	405.4	398.5	408.9	401.9
55°	228.7	221.8	221.8	228.7	221.8	221.8	218.3	225.2
57.5°	110.9	114.3	110.9	110.9	110.9	110.9	107.4	110.9
60°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
62.5°	20.8	20.8	17.3	17.3	17.3	17.3	17.3	17.3
65°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
67.5°	10.4	10.4	10.4	10.4	10.4	13.9	10.4	10.4
70°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
72.5°	10.4	10.4	13.9	13.9	13.9	13.9	13.9	13.9
75°	6.9	6.9	6.9	3.5	3.5	3.5	3.5	3.5
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)