

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: P252199

Luminaire Tested: **LE_6B50D010R EC6B30509027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252199
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_6B50D010R 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: 6986.2 lumens
Efficiency: N/A
Efficacy: 118.8 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

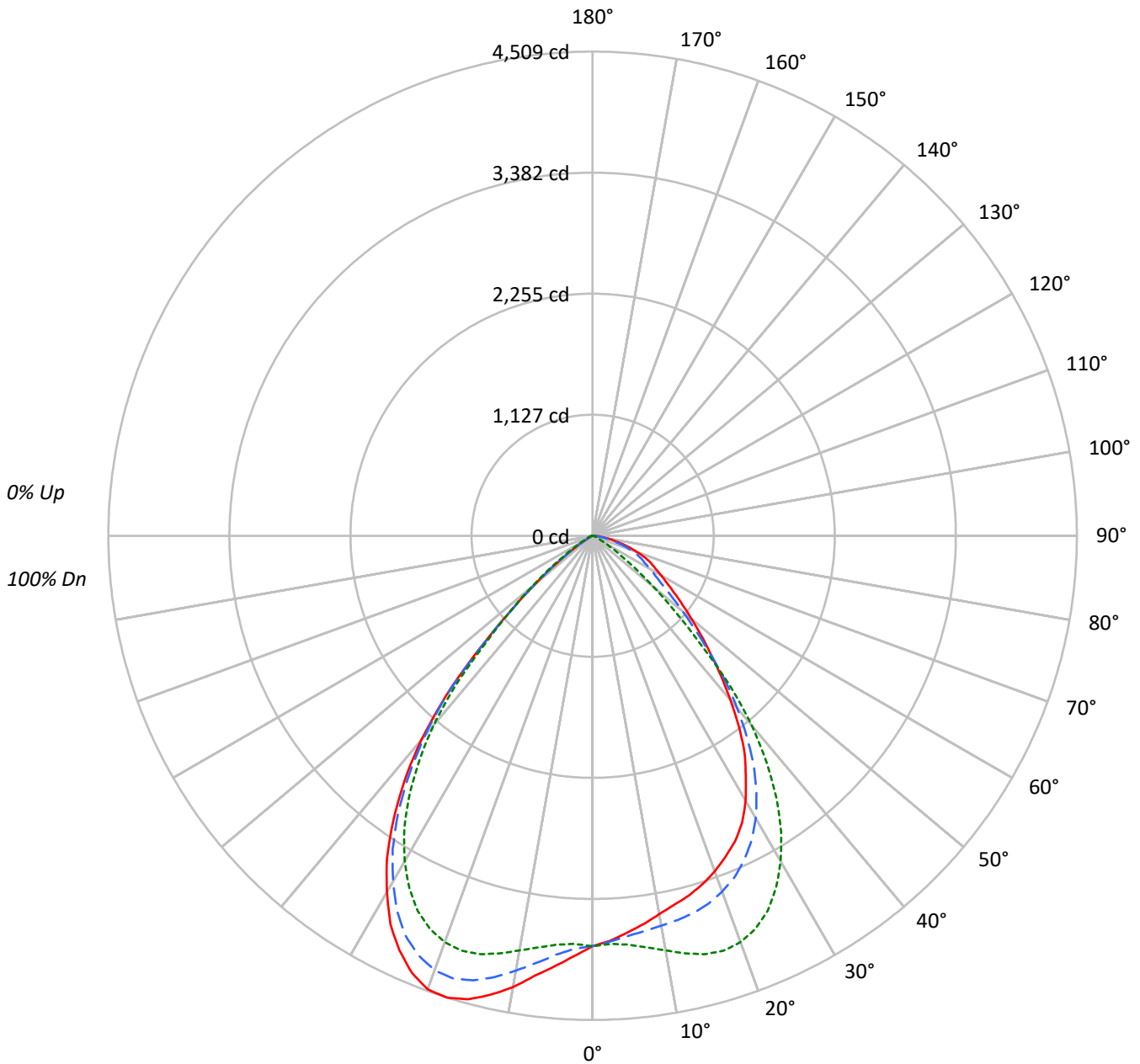
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	249350	249350	249350
5°	242889	250302	263466
10°	236979	259728	282729
15°	234209	272465	301832
20°	230854	279557	312036
25°	225947	277495	306433
30°	214708	263705	288482
35°	196434	237754	257553
40°	169905	196358	211296
45°	143277	128782	138221
50°	121643	74549	70093
55°	105565	35738	27014
60°	95356	16689	6668
65°	92500	9587	2254
70°	82958	7668	2098
75°	68160	5520	907
80°	50795	2705	0
85°	43790	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	5.3
10°-20°	1125.1	16.1
20°-30°	1719.1	24.6
30°-40°	1798.0	25.7
40°-50°	1166.4	16.7
50°-60°	463.1	6.6
60°-70°	219.7	3.1
70°-80°	104.5	1.5
80°-90°	21.3	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°	3213.3	46.0
0°-40°	5011.3	71.7
0°-60°	6640.8	95.1
0°-90°	6986.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6986.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3822	3822	3822	3822	3822	
5°	3709	3742	3822	3917	4023	350
15°	3468	3636	4034	4286	4469	977
25°	3139	3336	3855	4114	4257	1437
35°	2466	2616	2985	3161	3234	1525
45°	1553	1538	1396	1480	1498	1208
55°	928	789	314	245	238	841
65°	599	497	62	15	15	585
75°	270	219	22	7	4	292
85°	58	36	0	0	0	68
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°	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0
2.5°	3774.5	3781.9	3741.6	3730.6	3759.9	3770.9	3774.5	3763.6	3767.2	3781.9	3781.9
5°	3708.8	3716.1	3679.5	3668.6	3697.8	3705.1	3716.1	3712.4	3723.4	3745.2	3741.6
7.5°	3646.6	3657.6	3617.4	3602.8	3639.4	3657.6	3664.9	3664.9	3679.5	3708.8	3712.4
10°	3577.2	3591.9	3555.2	3548.0	3588.1	3606.5	3610.1	3617.4	3639.4	3679.5	3686.9
12.5°	3518.8	3533.4	3507.8	3496.9	3540.6	3559.0	3566.2	3580.9	3606.5	3657.6	3664.9
15°	3467.6	3478.5	3449.4	3442.0	3485.9	3507.8	3511.5	3533.4	3566.2	3624.8	3635.6
17.5°	3401.9	3409.1	3387.2	3379.9	3423.8	3445.6	3449.4	3474.9	3515.1	3573.5	3591.9
20°	3325.1	3332.4	3310.5	3303.1	3347.0	3372.6	3376.2	3398.1	3445.6	3507.8	3526.0
22.5°	3233.8	3248.4	3222.8	3215.5	3259.4	3281.2	3292.2	3310.5	3358.0	3420.1	3445.6
25°	3138.8	3138.8	3120.5	3116.9	3157.0	3182.6	3178.9	3204.5	3252.0	3314.1	3336.0
27.5°	3014.5	3010.9	2992.6	2988.9	3032.8	3054.8	3047.4	3073.0	3116.9	3178.9	3200.9
30°	2850.1	2857.4	2831.8	2824.5	2861.0	2897.6	2893.9	2919.5	2963.4	3021.9	3036.4
32.5°	2652.8	2660.1	2656.4	2645.5	2678.4	2696.6	2707.6	2725.9	2762.4	2824.5	2839.1
35°	2466.4	2455.5	2440.9	2440.9	2473.8	2503.0	2492.0	2513.9	2550.5	2612.6	2616.2
37.5°	2236.2	2232.5	2225.2	2218.0	2254.5	2261.8	2265.5	2280.1	2313.0	2364.1	2356.8
40°	1995.0	1998.8	1995.0	1980.5	2002.4	2031.6	2028.0	2035.2	2064.5	2101.0	2090.0
42.5°	1768.5	1768.5	1768.5	1753.9	1779.5	1794.1	1801.4	1797.8	1805.0	1837.9	1823.4
45°	1552.9	1556.6	1552.9	1549.2	1552.9	1560.2	1552.9	1549.2	1549.2	1560.2	1538.2
47.5°	1366.6	1366.6	1355.6	1344.6	1355.6	1359.2	1348.2	1337.4	1333.8	1330.0	1293.5
50°	1198.5	1194.9	1191.1	1172.9	1183.9	1187.5	1172.9	1165.6	1151.0	1132.8	1088.9
52.5°	1052.4	1048.6	1045.0	1026.8	1034.1	1037.8	1023.1	1008.5	990.2	975.6	920.8
55°	928.1	924.5	924.5	913.5	906.1	913.5	898.9	887.9	862.4	844.0	789.2
57.5°	822.1	822.1	814.9	803.9	807.5	807.5	792.9	778.2	756.4	734.5	690.6
60°	730.8	730.8	730.8	719.9	719.9	719.9	712.5	697.9	679.6	657.8	613.9
62.5°	657.8	657.8	654.0	643.1	646.8	646.8	639.5	624.9	606.5	592.0	548.1
65°	599.2	599.2	599.2	588.2	588.2	592.0	584.6	570.0	555.4	537.1	496.9
67.5°	526.1	522.5	522.5	515.2	518.9	522.5	515.2	504.2	486.0	475.0	438.5
70°	434.9	438.5	442.1	431.1	434.9	434.9	431.1	420.2	409.2	398.2	365.4
72.5°	354.4	354.4	350.8	347.1	347.1	350.8	343.5	332.5	325.2	317.9	292.4
75°	270.4	266.8	270.4	263.1	263.1	263.1	255.8	252.1	248.5	237.5	219.2
77.5°	197.4	193.6	193.6	186.4	190.0	190.0	186.4	179.0	171.8	168.1	153.5
80°	135.2	135.2	135.2	131.5	131.5	127.9	127.9	124.2	116.9	113.2	106.0
82.5°	91.4	91.4	91.4	87.8	87.8	87.8	84.0	80.4	76.8	73.1	65.8
85°	58.5	58.5	58.5	54.8	54.8	54.8	51.1	51.1	47.5	43.9	36.5
87.5°	32.9	32.9	32.9	29.2	29.2	29.2	29.2	29.2	25.6	21.9	18.2
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°	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0
2.5°	3807.4	3756.2	3789.1	3789.1	3778.1	3807.4	3825.6	3840.2	3836.6	3803.8	3800.1
5°	3778.1	3734.4	3770.9	3774.5	3763.6	3803.8	3829.4	3847.6	3851.2	3822.0	3825.6
7.5°	3756.2	3719.8	3767.2	3781.9	3778.1	3814.8	3844.0	3873.1	3887.8	3865.9	3869.5
10°	3745.2	3716.1	3767.2	3789.1	3792.8	3833.0	3876.9	3917.0	3935.2	3920.6	3931.6
12.5°	3730.6	3712.4	3770.9	3803.8	3818.4	3858.6	3913.4	3960.9	3990.1	3982.8	4004.8
15°	3716.1	3701.5	3770.9	3818.4	3836.6	3873.1	3935.2	4004.8	4037.6	4034.0	4063.2
17.5°	3679.5	3675.9	3749.0	3800.1	3825.6	3869.5	3928.0	4012.0	4044.9	4052.2	4088.8
20°	3621.1	3621.1	3701.5	3756.2	3785.5	3825.6	3898.8	3979.1	4019.4	4026.6	4066.9
22.5°	3540.6	3548.0	3624.8	3679.5	3723.4	3752.6	3829.4	3913.4	3949.9	3960.9	4004.8
25°	3434.8	3442.0	3515.1	3569.9	3617.4	3650.2	3723.4	3800.1	3844.0	3854.9	3887.8
27.5°	3295.9	3310.5	3379.9	3434.8	3474.9	3496.9	3573.5	3654.0	3686.9	3697.8	3730.6
30°	3135.1	3138.8	3208.1	3255.6	3295.9	3314.1	3379.9	3464.0	3489.5	3500.5	3548.0
32.5°	2937.8	2934.1	2999.9	3043.8	3076.6	3098.5	3168.0	3222.8	3248.4	3266.6	3292.2
35°	2700.2	2696.6	2744.1	2795.2	2820.9	2828.1	2897.6	2956.0	2970.6	2985.2	3018.1
37.5°	2433.5	2433.5	2473.8	2499.2	2528.5	2539.5	2572.4	2638.1	2663.8	2660.1	2685.6
40°	2152.1	2137.5	2166.8	2192.4	2199.6	2203.4	2236.2	2287.4	2305.6	2305.6	2323.9
42.5°	1856.2	1834.2	1837.9	1852.5	1859.9	1834.2	1856.2	1889.1	1878.1	1892.8	1896.4
45°	1542.0	1509.1	1494.5	1461.6	1468.9	1443.2	1428.8	1436.0	1432.4	1395.8	1403.1
47.5°	1286.2	1227.8	1202.1	1154.6	1143.6	1114.5	1096.1	1063.2	1034.1	1034.1	1015.8
50°	1070.6	1012.1	961.0	906.1	887.9	862.4	822.1	778.2	756.4	734.5	716.1
52.5°	898.9	836.8	774.6	716.1	690.6	657.8	602.9	559.0	518.9	496.9	475.0
55°	760.0	690.6	624.9	562.8	529.9	496.9	442.1	391.0	343.5	314.2	296.0
57.5°	654.0	588.2	518.9	453.1	423.9	387.4	328.9	274.0	230.2	197.4	179.0
60°	577.4	511.5	449.4	380.0	350.8	314.2	252.1	201.0	157.1	127.9	106.0
62.5°	511.5	453.1	387.4	325.2	296.0	259.4	201.0	149.8	109.6	80.4	62.1
65°	464.0	405.6	350.8	288.6	263.1	226.5	171.8	124.2	87.8	62.1	43.9
67.5°	409.2	358.1	303.2	252.1	226.5	197.4	146.1	106.0	73.1	51.1	36.5
70°	343.5	303.2	255.8	208.2	190.0	164.4	120.6	87.8	58.5	40.2	29.2
72.5°	274.0	241.1	204.6	168.1	153.5	127.9	98.6	69.4	43.9	29.2	21.9
75°	208.2	182.8	153.5	127.9	113.2	98.6	73.1	51.1	32.9	21.9	14.6
77.5°	142.5	131.5	109.6	87.8	80.4	69.4	47.5	32.9	21.9	14.6	7.2
80°	98.6	87.8	73.1	58.5	51.1	43.9	29.2	21.9	11.0	7.2	3.6
82.5°	62.1	51.1	43.9	36.5	32.9	25.6	18.2	11.0	7.2	3.6	3.6
85°	32.9	29.2	25.6	18.2	18.2	14.6	11.0	7.2	3.6	0.0	0.0
87.5°	18.2	14.6	11.0	7.2	7.2	3.6	3.6	3.6	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°	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0
2.5°	3844.0	3844.0	3840.2	3884.1	3833.0	3884.1	3858.6	3884.1	3847.6	3844.0	3847.6
5°	3873.1	3884.1	3887.8	3928.0	3880.5	3942.6	3920.6	3942.6	3917.0	3924.4	3935.2
7.5°	3931.6	3949.9	3946.2	3997.4	3949.9	4019.4	4004.8	4037.6	4012.0	4019.4	4034.0
10°	3997.4	4019.4	4023.0	4074.1	4030.2	4114.4	4096.1	4132.6	4110.8	4121.6	4139.9
12.5°	4074.1	4099.8	4103.4	4161.9	4114.4	4202.0	4191.1	4227.6	4209.4	4220.2	4242.2
15°	4132.6	4169.1	4176.5	4234.9	4183.8	4275.1	4267.8	4315.4	4286.1	4304.4	4322.6
17.5°	4161.9	4194.8	4209.4	4264.1	4220.2	4311.6	4304.4	4344.5	4322.6	4340.9	4362.9
20°	4143.6	4183.8	4194.8	4249.5	4205.8	4297.0	4286.1	4326.2	4304.4	4319.0	4340.9
22.5°	4077.8	4118.0	4132.6	4183.8	4143.6	4227.6	4224.0	4260.5	4231.2	4249.5	4267.8
25°	3960.9	4004.8	4012.0	4059.5	4015.8	4103.4	4096.1	4136.2	4114.4	4125.2	4150.9
27.5°	3792.8	3844.0	3854.9	3895.1	3862.2	3935.2	3935.2	3968.2	3942.6	3942.6	3968.2
30°	3591.9	3643.0	3650.2	3683.1	3654.0	3719.8	3723.4	3756.2	3716.1	3738.0	3741.6
32.5°	3347.0	3379.9	3401.9	3431.0	3387.2	3471.2	3460.2	3485.9	3464.0	3464.0	3482.2
35°	3051.0	3091.2	3102.2	3138.8	3102.2	3168.0	3168.0	3182.6	3160.6	3160.6	3189.9
37.5°	2729.5	2758.8	2762.4	2798.9	2769.8	2824.5	2820.9	2831.8	2809.9	2824.5	2824.5
40°	2353.1	2375.1	2382.4	2400.6	2397.0	2437.1	2433.5	2440.9	2429.9	2433.5	2440.9
42.5°	1914.6	1943.9	1958.5	1973.1	1951.2	2006.0	1995.0	2006.0	2002.4	2006.0	2017.0
45°	1410.4	1432.4	1443.2	1447.0	1439.6	1472.5	1498.1	1476.2	1479.9	1472.5	1487.1
47.5°	1019.5	1023.1	1015.8	1037.8	1019.5	1034.1	1041.4	1045.0	1023.1	1019.5	1034.1
50°	697.9	716.1	690.6	701.5	697.9	712.5	705.2	708.9	687.0	697.9	690.6
52.5°	464.0	460.4	453.1	456.8	449.4	449.4	449.4	456.8	442.1	434.9	427.5
55°	281.4	274.0	259.4	255.8	255.8	259.4	252.1	244.9	244.9	241.1	241.1
57.5°	164.4	153.5	146.1	142.5	135.2	131.5	127.9	127.9	120.6	120.6	120.6
60°	91.4	80.4	73.1	65.8	65.8	62.1	58.5	54.8	54.8	54.8	51.1
62.5°	47.5	40.2	32.9	29.2	29.2	25.6	21.9	21.9	21.9	21.9	18.2
65°	32.9	25.6	21.9	18.2	18.2	14.6	14.6	14.6	14.6	14.6	14.6
67.5°	25.6	21.9	18.2	14.6	14.6	14.6	11.0	11.0	11.0	11.0	11.0
70°	21.9	14.6	14.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
72.5°	14.6	14.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
75°	11.0	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0
80°	3.6	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: P252199

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0	3822.0
2.5°	3880.5	3876.9	3880.5	3887.8	3873.1	3917.0	3895.1	3917.0
5°	3964.5	3968.2	3971.9	3982.8	3964.5	4019.4	3990.1	4023.0
7.5°	4074.1	4077.8	4081.5	4092.4	4081.5	4136.2	4103.4	4132.6
10°	4187.4	4194.8	4194.8	4213.0	4202.0	4253.2	4231.2	4267.8
12.5°	4293.4	4300.8	4308.0	4319.0	4311.6	4366.5	4348.2	4377.4
15°	4377.4	4392.0	4395.8	4410.4	4403.0	4461.5	4439.5	4468.8
17.5°	4417.6	4432.2	4432.2	4450.5	4443.2	4505.4	4476.1	4509.0
20°	4395.8	4406.6	4410.4	4428.6	4421.2	4483.4	4454.1	4494.4
22.5°	4326.2	4329.9	4333.6	4351.9	4348.2	4403.0	4377.4	4403.0
25°	4198.4	4209.4	4205.8	4220.2	4220.2	4264.1	4234.9	4256.9
27.5°	4015.8	4026.6	4026.6	4044.9	4030.2	4074.1	4044.9	4077.8
30°	3792.8	3803.8	3796.5	3811.1	3796.5	3840.2	3818.4	3829.4
32.5°	3526.0	3526.0	3529.8	3533.4	3526.0	3566.2	3544.4	3566.2
35°	3208.1	3215.5	3219.1	3222.8	3215.5	3244.8	3219.1	3233.8
37.5°	2850.1	2868.4	2864.8	2868.4	2857.4	2893.9	2872.0	2879.2
40°	2466.4	2466.4	2462.8	2470.1	2459.1	2488.4	2473.8	2481.0
42.5°	2020.6	2031.6	2017.0	2035.2	2006.0	2046.2	2031.6	2020.6
45°	1516.4	1501.8	1498.1	1501.8	1490.8	1494.5	1505.4	1498.1
47.5°	1034.1	1034.1	1026.8	1015.8	1030.4	1034.1	1019.5	1019.5
50°	694.2	694.2	687.0	683.2	690.6	687.0	679.6	690.6
52.5°	442.1	427.5	427.5	434.9	427.5	420.2	431.1	423.9
55°	241.1	233.9	233.9	241.1	233.9	233.9	230.2	237.5
57.5°	116.9	120.6	116.9	116.9	116.9	116.9	113.2	116.9
60°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
62.5°	21.9	21.9	18.2	18.2	18.2	18.2	18.2	18.2
65°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
67.5°	11.0	11.0	11.0	11.0	11.0	14.6	11.0	11.0
70°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
72.5°	11.0	11.0	14.6	14.6	14.6	14.6	14.6	14.6
75°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6
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)