

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: P252202

Luminaire Tested: **LE_6B50D010R EC6B30509040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252202
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 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: 7380.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

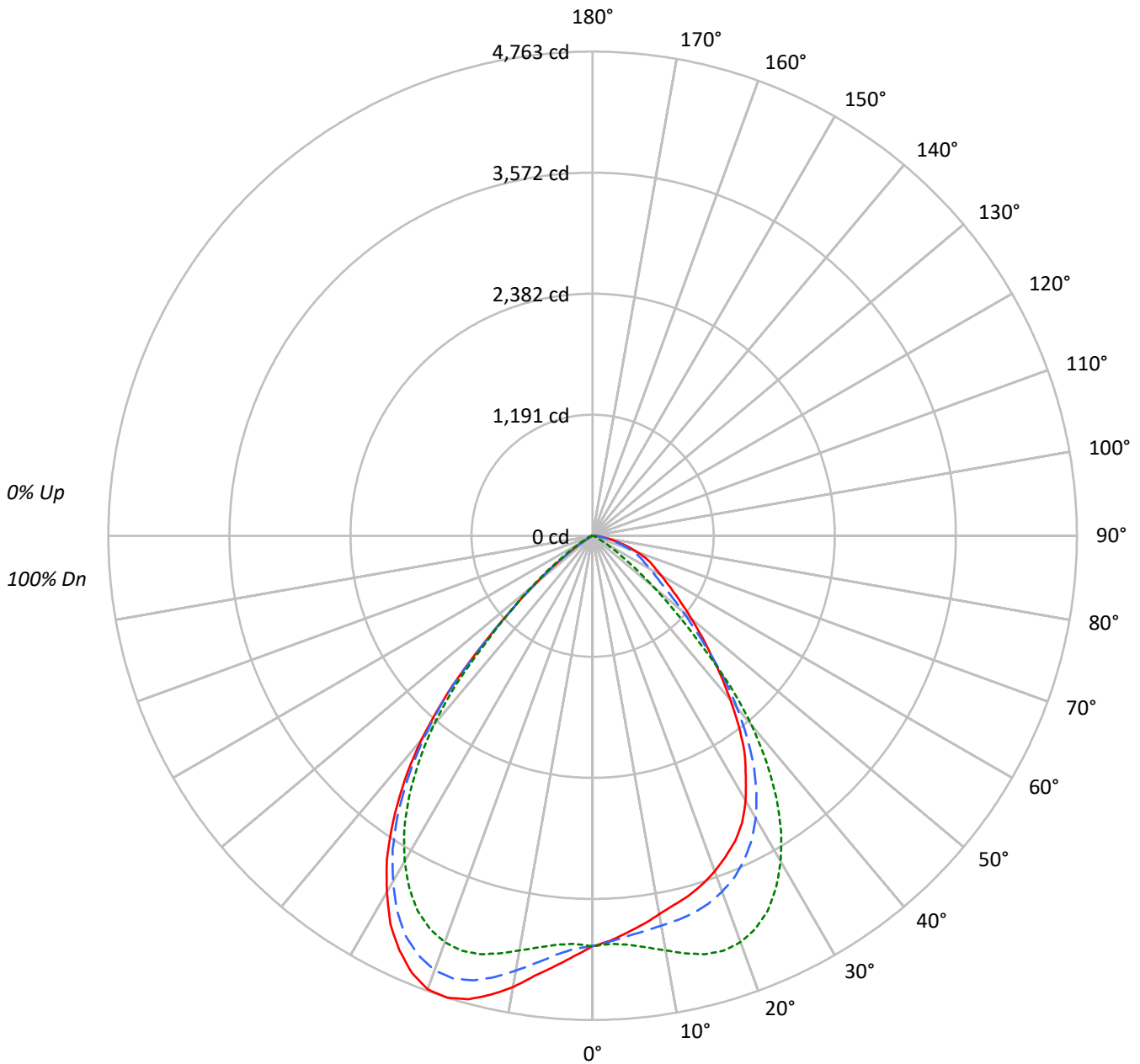
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	263409	263409	263409
5°	256576	264415	278319
10°	250341	274369	298668
15°	247407	287824	318839
20°	243865	295317	329615
25°	238674	293130	323702
30°	226814	278568	304731
35°	207505	251158	272064
40°	179486	207429	223210
45°	151359	136044	146008
50°	128494	78751	74042
55°	111514	37763	28538
60°	100732	17628	7046
65°	97718	10127	2393
70°	87631	8107	2213
75°	71991	5823	983
80°	53688	2931	0
85°	46261	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.0	5.3
10°-20°	1188.5	16.1
20°-30°	1815.9	24.6
30°-40°	1899.3	25.7
40°-50°	1232.1	16.7
50°-60°	489.2	6.6
60°-70°	232.1	3.1
70°-80°	110.4	1.5
80°-90°	22.5	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°	3394.4	46.0
0°-40°	5293.7	71.7
0°-60°	7015.0	95.1
0°-90°	7380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7380.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4038	4038	4038	4038	4038	
5°	3918	3952	4038	4138	4250	370
15°	3663	3841	4261	4528	4721	1032
25°	3316	3524	4072	4346	4497	1518
35°	2605	2764	3154	3339	3416	1611
45°	1640	1625	1474	1563	1582	1276
55°	980	834	332	259	251	888
65°	633	525	66	16	16	618
75°	286	232	23	8	4	308
85°	62	39	0	0	0	72
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°	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5
2.5°	3987.2	3995.0	3952.5	3941.0	3971.9	3983.4	3987.2	3975.6	3979.5	3995.0	3995.0
5°	3917.8	3925.5	3886.9	3875.4	3906.2	3913.9	3925.5	3921.6	3933.2	3956.4	3952.5
7.5°	3852.1	3863.8	3821.2	3805.9	3844.5	3863.8	3871.5	3871.5	3886.9	3917.8	3921.6
10°	3778.9	3794.2	3755.6	3748.0	3790.4	3809.8	3813.6	3821.2	3844.5	3886.9	3894.6
12.5°	3717.1	3732.5	3705.5	3693.9	3740.2	3759.5	3767.2	3782.8	3809.8	3863.8	3871.5
15°	3663.0	3674.6	3643.8	3636.0	3682.4	3705.5	3709.4	3732.5	3767.2	3829.0	3840.6
17.5°	3593.5	3601.2	3578.1	3570.4	3616.8	3639.9	3643.8	3670.8	3713.2	3775.0	3794.2
20°	3512.5	3520.2	3497.0	3489.4	3535.6	3562.6	3566.5	3589.8	3639.9	3705.5	3724.8
22.5°	3416.0	3431.5	3404.4	3396.8	3443.0	3466.1	3477.8	3497.0	3547.2	3612.9	3639.9
25°	3315.6	3315.6	3296.4	3292.5	3335.0	3362.0	3358.1	3385.1	3435.2	3500.9	3524.1
27.5°	3184.4	3180.5	3161.2	3157.4	3203.8	3226.9	3219.1	3246.1	3292.5	3358.1	3381.2
30°	3010.8	3018.4	2991.4	2983.8	3022.2	3060.9	3057.0	3084.0	3130.4	3192.1	3207.6
32.5°	2802.2	2810.0	2806.1	2794.5	2829.2	2848.6	2860.1	2879.5	2918.1	2983.8	2999.1
35°	2605.4	2593.9	2578.4	2578.4	2613.1	2644.0	2632.5	2655.6	2694.2	2759.9	2763.6
37.5°	2362.2	2358.4	2350.6	2343.0	2381.5	2389.2	2393.1	2408.6	2443.2	2497.4	2489.6
40°	2107.5	2111.4	2107.5	2092.0	2115.2	2146.1	2142.2	2150.0	2180.9	2219.4	2207.9
42.5°	1868.1	1868.1	1868.1	1852.8	1879.8	1895.2	1902.9	1899.1	1906.8	1941.5	1926.1
45°	1640.5	1644.2	1640.5	1636.6	1640.5	1648.1	1640.5	1636.6	1636.6	1648.1	1625.0
47.5°	1443.6	1443.6	1432.0	1420.5	1432.0	1435.9	1424.2	1412.8	1408.9	1405.0	1366.4
50°	1266.0	1262.1	1258.4	1239.0	1250.6	1254.5	1239.0	1231.2	1215.9	1196.6	1150.2
52.5°	1111.6	1107.8	1103.9	1084.6	1092.4	1096.2	1080.8	1065.4	1046.0	1030.6	972.8
55°	980.4	976.5	976.5	965.0	957.2	965.0	949.5	938.0	910.9	891.6	833.8
57.5°	868.5	868.5	860.8	849.1	853.0	853.0	837.6	822.1	799.0	775.9	729.5
60°	772.0	772.0	772.0	760.4	760.4	760.4	752.6	737.2	718.0	694.8	648.5
62.5°	694.8	694.8	690.9	679.4	683.2	683.2	675.5	660.0	640.8	625.2	579.0
65°	633.0	633.0	633.0	621.5	621.5	625.2	617.6	602.1	586.8	567.4	525.0
67.5°	555.9	552.0	552.0	544.2	548.1	552.0	544.2	532.6	513.4	501.8	463.1
70°	459.4	463.1	467.0	455.5	459.4	459.4	455.5	443.9	432.2	420.8	386.0
72.5°	374.4	374.4	370.5	366.8	366.8	370.5	362.9	351.2	343.5	335.8	308.8
75°	285.6	281.8	285.6	277.9	277.9	277.9	270.2	266.4	262.5	250.9	231.6
77.5°	208.4	204.6	204.6	196.9	200.8	200.8	196.9	189.1	181.4	177.5	162.1
80°	142.9	142.9	142.9	139.0	139.0	135.1	135.1	131.2	123.5	119.6	111.9
82.5°	96.5	96.5	96.5	92.6	92.6	92.6	88.8	84.9	81.0	77.2	69.5
85°	61.8	61.8	61.8	57.9	57.9	57.9	54.0	54.0	50.1	46.4	38.6
87.5°	34.8	34.8	34.8	30.9	30.9	30.9	30.9	30.9	27.0	23.1	19.2
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°	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5
2.5°	4022.0	3968.0	4002.8	4002.8	3991.1	4022.0	4041.2	4056.8	4052.9	4018.1	4014.2
5°	3991.1	3944.8	3983.4	3987.2	3975.6	4018.1	4045.1	4064.5	4068.4	4037.5	4041.2
7.5°	3968.0	3929.4	3979.5	3995.0	3991.1	4029.8	4060.6	4091.5	4106.9	4083.8	4087.6
10°	3956.4	3925.5	3979.5	4002.8	4006.6	4049.0	4095.4	4137.8	4157.1	4141.6	4153.2
12.5°	3941.0	3921.6	3983.4	4018.1	4033.6	4076.0	4134.0	4184.1	4215.0	4207.2	4230.4
15°	3925.5	3910.1	3983.4	4033.6	4052.9	4091.5	4157.1	4230.4	4265.1	4261.4	4292.2
17.5°	3886.9	3883.0	3960.2	4014.2	4041.2	4087.6	4149.4	4238.1	4272.9	4280.6	4319.2
20°	3825.1	3825.1	3910.1	3968.0	3998.9	4041.2	4118.5	4203.4	4245.9	4253.6	4296.0
22.5°	3740.2	3748.0	3829.0	3886.9	3933.2	3964.1	4045.1	4134.0	4172.5	4184.1	4230.4
25°	3628.2	3636.0	3713.2	3771.1	3821.2	3856.0	3933.2	4014.2	4060.6	4072.1	4106.9
27.5°	3481.6	3497.0	3570.4	3628.2	3670.8	3693.9	3775.0	3859.9	3894.6	3906.2	3941.0
30°	3311.8	3315.6	3389.0	3439.1	3481.6	3500.9	3570.4	3659.1	3686.2	3697.8	3748.0
32.5°	3103.4	3099.5	3169.0	3215.2	3250.0	3273.1	3346.5	3404.4	3431.5	3450.8	3477.8
35°	2852.5	2848.6	2898.8	2952.9	2979.9	2987.5	3060.9	3122.6	3138.1	3153.5	3188.2
37.5°	2570.6	2570.6	2613.1	2640.1	2671.0	2682.6	2717.4	2786.9	2813.9	2810.0	2837.0
40°	2273.5	2258.0	2288.9	2315.9	2323.6	2327.5	2362.2	2416.2	2435.6	2435.6	2454.9
42.5°	1960.9	1937.6	1941.5	1957.0	1964.6	1937.6	1960.9	1995.5	1984.0	1999.4	2003.2
45°	1628.9	1594.1	1578.8	1544.0	1551.6	1524.6	1509.2	1516.9	1513.1	1474.5	1482.2
47.5°	1358.6	1296.9	1269.9	1219.8	1208.1	1177.2	1158.0	1123.2	1092.4	1092.4	1073.0
50°	1131.0	1069.2	1015.1	957.2	938.0	910.9	868.5	822.1	799.0	775.9	756.5
52.5°	949.5	883.9	818.2	756.5	729.5	694.8	636.9	590.6	548.1	525.0	501.8
55°	802.9	729.5	660.0	594.4	559.6	525.0	467.0	413.0	362.9	332.0	312.6
57.5°	690.9	621.5	548.1	478.6	447.8	409.1	347.4	289.5	243.1	208.4	189.1
60°	609.9	540.4	474.8	401.4	370.5	332.0	266.4	212.2	166.0	135.1	111.9
62.5°	540.4	478.6	409.1	343.5	312.6	274.0	212.2	158.2	115.8	84.9	65.6
65°	490.2	428.5	370.5	304.9	277.9	239.4	181.4	131.2	92.6	65.6	46.4
67.5°	432.2	378.2	320.4	266.4	239.4	208.4	154.4	111.9	77.2	54.0	38.6
70°	362.9	320.4	270.2	220.0	200.8	173.8	127.4	92.6	61.8	42.5	30.9
72.5°	289.5	254.8	216.1	177.5	162.1	135.1	104.2	73.4	46.4	30.9	23.1
75°	220.0	193.0	162.1	135.1	119.6	104.2	77.2	54.0	34.8	23.1	15.5
77.5°	150.5	139.0	115.8	92.6	84.9	73.4	50.1	34.8	23.1	15.5	7.8
80°	104.2	92.6	77.2	61.8	54.0	46.4	30.9	23.1	11.6	7.8	3.9
82.5°	65.6	54.0	46.4	38.6	34.8	27.0	19.2	11.6	7.8	3.9	3.9
85°	34.8	30.9	27.0	19.2	19.2	15.5	11.6	7.8	3.9	0.0	0.0
87.5°	19.2	15.5	11.6	7.8	7.8	3.9	3.9	3.9	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°	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5
2.5°	4060.6	4060.6	4056.8	4103.0	4049.0	4103.0	4076.0	4103.0	4064.5	4060.6	4064.5
5°	4091.5	4103.0	4106.9	4149.4	4099.2	4164.9	4141.6	4164.9	4137.8	4145.5	4157.1
7.5°	4153.2	4172.5	4168.6	4222.8	4172.5	4245.9	4230.4	4265.1	4238.1	4245.9	4261.4
10°	4222.8	4245.9	4249.8	4303.8	4257.5	4346.2	4326.9	4365.5	4342.4	4354.0	4373.2
12.5°	4303.8	4330.8	4334.6	4396.4	4346.2	4438.9	4427.2	4465.9	4446.6	4458.1	4481.4
15°	4365.5	4404.1	4411.9	4473.6	4419.6	4516.1	4508.4	4558.5	4527.6	4547.0	4566.2
17.5°	4396.4	4431.1	4446.6	4504.5	4458.1	4554.6	4547.0	4589.4	4566.2	4585.5	4608.8
20°	4377.1	4419.6	4431.1	4489.0	4442.8	4539.2	4527.6	4570.1	4547.0	4562.4	4585.5
22.5°	4307.6	4350.1	4365.5	4419.6	4377.1	4465.9	4462.0	4500.6	4469.8	4489.0	4508.4
25°	4184.1	4230.4	4238.1	4288.4	4242.0	4334.6	4326.9	4369.4	4346.2	4357.9	4384.9
27.5°	4006.6	4060.6	4072.1	4114.6	4079.9	4157.1	4157.1	4191.9	4164.9	4164.9	4191.9
30°	3794.2	3848.2	3856.0	3890.8	3859.9	3929.4	3933.2	3968.0	3925.5	3948.6	3952.5
32.5°	3535.6	3570.4	3593.5	3624.4	3578.1	3666.9	3655.4	3682.4	3659.1	3659.1	3678.5
35°	3223.0	3265.5	3277.0	3315.6	3277.0	3346.5	3346.5	3362.0	3338.8	3338.8	3369.6
37.5°	2883.4	2914.2	2918.1	2956.6	2925.8	2983.8	2979.9	2991.4	2968.2	2983.8	2983.8
40°	2485.8	2508.9	2516.6	2536.0	2532.1	2574.5	2570.6	2578.4	2566.9	2570.6	2578.4
42.5°	2022.6	2053.5	2068.9	2084.4	2061.1	2119.1	2107.5	2119.1	2115.2	2119.1	2130.6
45°	1489.9	1513.1	1524.6	1528.5	1520.8	1555.5	1582.5	1559.4	1563.2	1555.5	1571.0
47.5°	1076.9	1080.8	1073.0	1096.2	1076.9	1092.4	1100.1	1103.9	1080.8	1076.9	1092.4
50°	737.2	756.5	729.5	741.1	737.2	752.6	745.0	748.9	725.6	737.2	729.5
52.5°	490.2	486.4	478.6	482.5	474.8	474.8	474.8	482.5	467.0	459.4	451.6
55°	297.2	289.5	274.0	270.2	270.2	274.0	266.4	258.6	258.6	254.8	254.8
57.5°	173.8	162.1	154.4	150.5	142.9	139.0	135.1	135.1	127.4	127.4	127.4
60°	96.5	84.9	77.2	69.5	69.5	65.6	61.8	57.9	57.9	57.9	54.0
62.5°	50.1	42.5	34.8	30.9	30.9	27.0	23.1	23.1	23.1	23.1	19.2
65°	34.8	27.0	23.1	19.2	19.2	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	27.0	23.1	19.2	15.5	15.5	15.5	11.6	11.6	11.6	11.6	11.6
70°	23.1	15.5	15.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
72.5°	15.5	15.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
75°	11.6	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0
80°	3.9	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: P252202

CATALOG NUMBER: LE_6B50D010R EC6B30509040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5
2.5°	4099.2	4095.4	4099.2	4106.9	4091.5	4137.8	4114.6	4137.8
5°	4188.0	4191.9	4195.8	4207.2	4188.0	4245.9	4215.0	4249.8
7.5°	4303.8	4307.6	4311.5	4323.1	4311.5	4369.4	4334.6	4365.5
10°	4423.4	4431.1	4431.1	4450.5	4438.9	4492.9	4469.8	4508.4
12.5°	4535.4	4543.1	4550.8	4562.4	4554.6	4612.6	4593.2	4624.1
15°	4624.1	4639.6	4643.5	4658.9	4651.1	4712.9	4689.8	4720.6
17.5°	4666.6	4682.0	4682.0	4701.4	4693.6	4759.2	4728.4	4763.1
20°	4643.5	4655.0	4658.9	4678.1	4670.5	4736.1	4705.2	4747.6
22.5°	4570.1	4574.0	4577.9	4597.1	4593.2	4651.1	4624.1	4651.1
25°	4435.0	4446.6	4442.8	4458.1	4458.1	4504.5	4473.6	4496.8
27.5°	4242.0	4253.6	4253.6	4272.9	4257.5	4303.8	4272.9	4307.6
30°	4006.6	4018.1	4010.4	4025.9	4010.4	4056.8	4033.6	4045.1
32.5°	3724.8	3724.8	3728.6	3732.5	3724.8	3767.2	3744.1	3767.2
35°	3389.0	3396.8	3400.5	3404.4	3396.8	3427.6	3400.5	3416.0
37.5°	3010.8	3030.0	3026.1	3030.0	3018.4	3057.0	3033.9	3041.6
40°	2605.4	2605.4	2601.6	2609.2	2597.8	2628.6	2613.1	2620.9
42.5°	2134.5	2146.1	2130.6	2150.0	2119.1	2161.5	2146.1	2134.5
45°	1601.9	1586.4	1582.5	1586.4	1574.9	1578.8	1590.2	1582.5
47.5°	1092.4	1092.4	1084.6	1073.0	1088.5	1092.4	1076.9	1076.9
50°	733.4	733.4	725.6	721.8	729.5	725.6	718.0	729.5
52.5°	467.0	451.6	451.6	459.4	451.6	443.9	455.5	447.8
55°	254.8	247.0	247.0	254.8	247.0	247.0	243.1	250.9
57.5°	123.5	127.4	123.5	123.5	123.5	123.5	119.6	123.5
60°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
62.5°	23.1	23.1	19.2	19.2	19.2	19.2	19.2	19.2
65°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	11.6	11.6	11.6	11.6	11.6	15.5	11.6	11.6
70°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
72.5°	11.6	11.6	15.5	15.5	15.5	15.5	15.5	15.5
75°	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9
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)