

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: P252206

Luminaire Tested: **LE_6B60D010R EC6B60708027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252206
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_6B60D010R EC6B60708027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9090.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

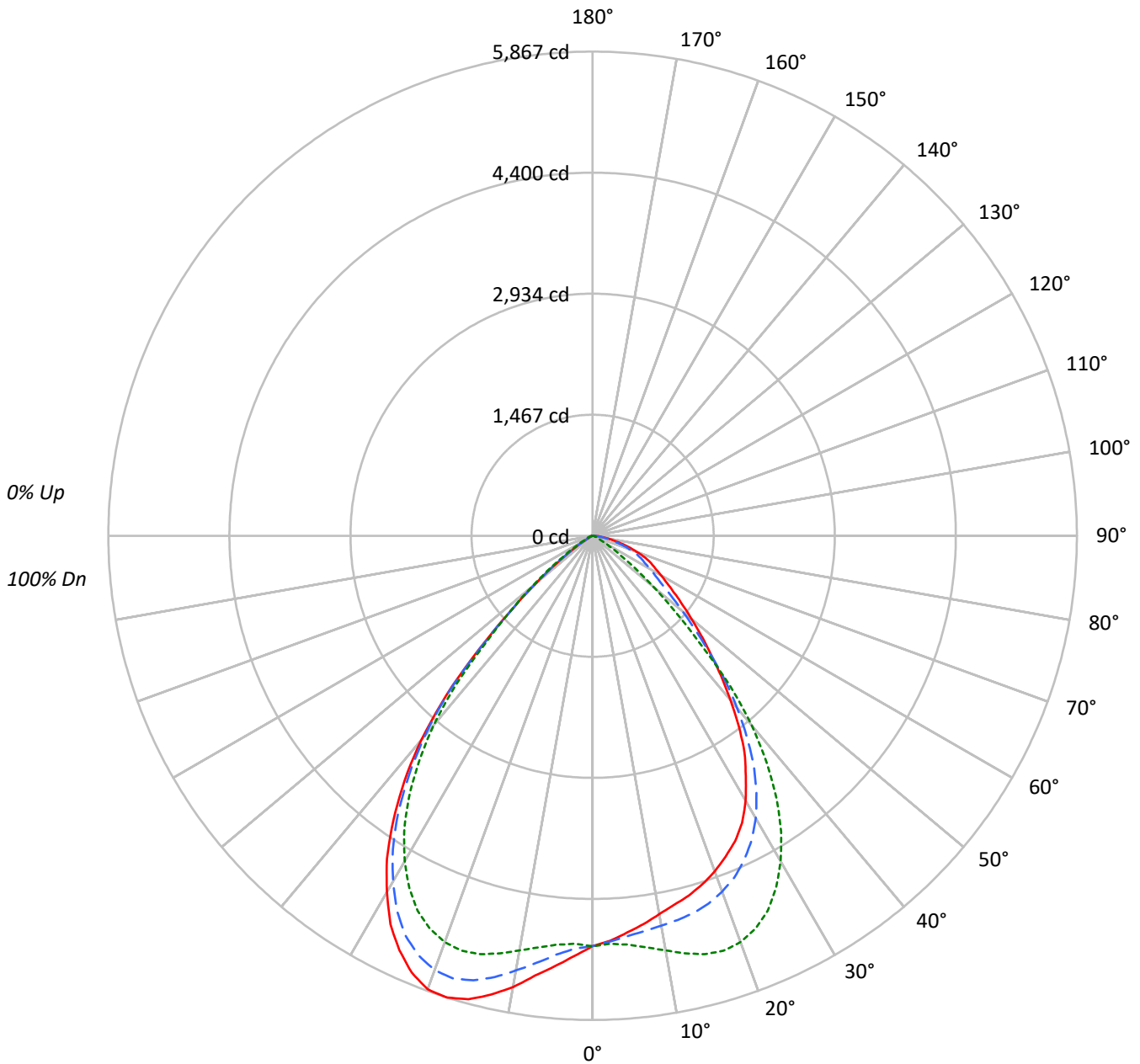
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	324442	324442	324442
5°	316028	325681	342800
10°	308340	337940	367870
15°	304736	354515	392723
20°	300372	363738	405999
25°	293980	361063	398711
30°	279366	343113	375349
35°	255586	309354	335103
40°	221081	255488	274923
45°	186420	167561	179841
50°	158273	96990	91195
55°	137357	46510	35147
60°	124075	21712	8677
65°	120380	12489	2933
70°	107927	9957	2709
75°	88704	7184	1210
80°	66087	3569	0
85°	56965	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	5.3
10°-20°	1463.9	16.1
20°-30°	2236.7	24.6
30°-40°	2339.4	25.7
40°-50°	1517.6	16.7
50°-60°	602.6	6.6
60°-70°	285.8	3.1
70°-80°	135.9	1.5
80°-90°	27.7	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°	4181.0	46.0
0°-40°	6520.4	71.7
0°-60°	8640.5	95.1
0°-90°	9090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9090.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4973	4973	4973	4973	4973	
5°	4826	4868	4973	5096	5234	456
15°	4512	4730	5249	5577	5814	1271
25°	4084	4341	5016	5353	5539	1870
35°	3209	3404	3884	4112	4208	1985
45°	2020	2002	1816	1926	1949	1572
55°	1208	1027	409	318	309	1094
65°	780	647	81	19	19	762
75°	352	285	28	10	5	379
85°	76	48	0	0	0	89
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°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	4911.1	4920.6	4868.4	4854.1	4892.1	4906.4	4911.1	4896.9	4901.6	4920.6	4920.6
5°	4825.6	4835.1	4787.5	4773.2	4811.2	4820.8	4835.1	4830.4	4844.6	4873.1	4868.4
7.5°	4744.8	4759.0	4706.8	4687.8	4735.2	4759.0	4768.5	4768.5	4787.5	4825.6	4830.4
10°	4654.4	4673.4	4625.9	4616.4	4668.6	4692.5	4697.2	4706.8	4735.2	4787.5	4797.0
12.5°	4578.4	4597.4	4564.1	4549.9	4606.9	4630.6	4640.1	4659.1	4692.5	4759.0	4768.5
15°	4511.8	4526.0	4488.0	4478.5	4535.5	4564.1	4568.9	4597.4	4640.1	4716.2	4730.5
17.5°	4426.2	4435.8	4407.2	4397.6	4454.8	4483.2	4488.0	4521.2	4573.6	4649.6	4673.4
20°	4326.4	4335.9	4307.4	4297.9	4354.9	4388.1	4392.9	4421.5	4483.2	4564.1	4587.9
22.5°	4207.5	4226.5	4193.2	4183.8	4240.8	4269.4	4283.6	4307.4	4369.1	4450.0	4483.2
25°	4083.9	4083.9	4060.1	4055.4	4107.6	4141.0	4136.2	4169.5	4231.2	4312.1	4340.6
27.5°	3922.2	3917.5	3893.8	3889.0	3946.0	3974.5	3965.0	3998.4	4055.4	4136.2	4164.8
30°	3708.4	3717.9	3684.5	3675.0	3722.6	3770.1	3765.4	3798.6	3855.8	3931.8	3950.8
32.5°	3451.6	3461.1	3456.4	3442.1	3484.9	3508.6	3522.9	3546.6	3594.2	3675.0	3694.0
35°	3209.1	3194.9	3175.9	3175.9	3218.6	3256.6	3242.4	3270.9	3318.5	3399.2	3404.0
37.5°	2909.6	2904.9	2895.4	2885.9	2933.4	2942.9	2947.6	2966.6	3009.5	3076.0	3066.5
40°	2595.9	2600.6	2595.9	2576.8	2605.4	2643.4	2638.6	2648.1	2686.1	2733.8	2719.4
42.5°	2301.0	2301.0	2301.0	2282.0	2315.4	2334.4	2343.9	2339.1	2348.6	2391.4	2372.4
45°	2020.5	2025.2	2020.5	2015.8	2020.5	2030.1	2020.5	2015.8	2015.8	2030.1	2001.5
47.5°	1778.1	1778.1	1763.9	1749.6	1763.9	1768.6	1754.4	1740.0	1735.2	1730.5	1683.0
50°	1559.4	1554.6	1549.9	1526.1	1540.4	1545.1	1526.1	1516.6	1497.6	1473.9	1416.8
52.5°	1369.2	1364.5	1359.8	1336.0	1345.5	1350.2	1331.2	1312.1	1288.4	1269.4	1198.1
55°	1207.6	1202.9	1202.9	1188.6	1179.0	1188.6	1169.5	1155.2	1122.0	1098.2	1026.9
57.5°	1069.8	1069.8	1060.2	1045.9	1050.8	1050.8	1031.6	1012.6	984.1	955.6	898.5
60°	950.9	950.9	950.9	936.6	936.6	936.6	927.1	908.0	884.2	855.8	798.8
62.5°	855.8	855.8	851.0	836.8	841.5	841.5	832.0	813.0	789.2	770.2	713.1
65°	779.8	779.8	779.8	765.4	765.4	770.2	760.6	741.6	722.6	698.9	646.6
67.5°	684.6	679.9	679.9	670.4	675.1	679.9	670.4	656.1	632.4	618.0	570.5
70°	565.8	570.5	575.2	561.0	565.8	565.8	561.0	546.8	532.5	518.2	475.4
72.5°	461.1	461.1	456.4	451.6	451.6	456.4	446.9	432.6	423.1	413.6	380.4
75°	351.9	347.0	351.9	342.2	342.2	342.2	332.8	328.0	323.2	309.0	285.2
77.5°	256.8	252.0	252.0	242.5	247.2	247.2	242.5	233.0	223.5	218.8	199.6
80°	175.9	175.9	175.9	171.1	171.1	166.4	166.4	161.6	152.1	147.4	137.9
82.5°	118.9	118.9	118.9	114.1	114.1	114.1	109.4	104.6	99.9	95.1	85.6
85°	76.1	76.1	76.1	71.4	71.4	71.4	66.5	66.5	61.8	57.0	47.5
87.5°	42.8	42.8	42.8	38.0	38.0	38.0	38.0	38.0	33.2	28.5	23.8
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°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	4953.9	4887.4	4930.1	4930.1	4915.9	4953.9	4977.8	4996.8	4992.0	4949.1	4944.4
5°	4915.9	4858.9	4906.4	4911.1	4896.9	4949.1	4982.5	5006.2	5011.0	4973.0	4977.8
7.5°	4887.4	4839.9	4901.6	4920.6	4915.9	4963.5	5001.5	5039.5	5058.5	5030.0	5034.8
10°	4873.1	4835.1	4901.6	4930.1	4934.9	4987.2	5044.2	5096.5	5120.4	5101.2	5115.6
12.5°	4854.1	4830.4	4906.4	4949.1	4968.2	5020.5	5091.8	5153.6	5191.6	5182.1	5210.6
15°	4835.1	4816.0	4906.4	4968.2	4992.0	5039.5	5120.4	5210.6	5253.5	5248.8	5286.8
17.5°	4787.5	4782.8	4877.9	4944.4	4977.8	5034.8	5110.9	5220.1	5263.0	5272.5	5320.0
20°	4711.5	4711.5	4816.0	4887.4	4925.4	4977.8	5072.8	5177.4	5229.6	5239.1	5291.5
22.5°	4606.9	4616.4	4716.2	4787.5	4844.6	4882.6	4982.5	5091.8	5139.4	5153.6	5210.6
25°	4469.0	4478.5	4573.6	4644.9	4706.8	4749.5	4844.6	4944.4	5001.5	5015.8	5058.5
27.5°	4288.4	4307.4	4397.6	4469.0	4521.2	4549.9	4649.6	4754.2	4797.0	4811.2	4854.1
30°	4079.1	4083.9	4174.2	4236.0	4288.4	4312.1	4397.6	4507.0	4540.2	4554.6	4616.4
32.5°	3822.4	3817.6	3903.2	3960.2	4003.1	4031.6	4121.9	4193.2	4226.5	4250.2	4283.6
35°	3513.4	3508.6	3570.5	3637.0	3670.2	3679.8	3770.1	3846.2	3865.2	3884.2	3927.0
37.5°	3166.4	3166.4	3218.6	3251.9	3290.0	3304.2	3347.0	3432.6	3465.9	3461.1	3494.4
40°	2800.2	2781.2	2819.2	2852.5	2862.0	2866.9	2909.6	2976.1	2999.9	2999.9	3023.8
42.5°	2415.1	2386.6	2391.4	2410.4	2419.9	2386.6	2415.1	2458.0	2443.6	2462.8	2467.5
45°	2006.2	1963.5	1944.5	1901.8	1911.2	1877.9	1858.9	1868.4	1863.6	1816.1	1825.6
47.5°	1673.5	1597.4	1564.1	1502.4	1488.1	1450.0	1426.2	1383.5	1345.5	1345.5	1321.6
50°	1393.0	1316.9	1250.4	1179.0	1155.2	1122.0	1069.8	1012.6	984.1	955.6	931.9
52.5°	1169.5	1088.8	1007.9	931.9	898.5	855.8	784.5	727.4	675.1	646.6	618.0
55°	988.9	898.5	813.0	732.1	689.4	646.6	575.2	508.8	446.9	408.9	385.1
57.5°	851.0	765.4	675.1	589.5	551.5	504.0	427.9	356.6	299.5	256.8	233.0
60°	751.1	665.6	584.8	494.5	456.4	408.9	328.0	261.5	204.4	166.4	137.9
62.5°	665.6	589.5	504.0	423.1	385.1	337.5	261.5	194.9	142.6	104.6	80.9
65°	603.8	527.8	456.4	375.6	342.2	294.8	223.5	161.6	114.1	80.9	57.0
67.5°	532.5	465.9	394.6	328.0	294.8	256.8	190.1	137.9	95.1	66.5	47.5
70°	446.9	394.6	332.8	271.0	247.2	214.0	156.9	114.1	76.1	52.2	38.0
72.5°	356.6	313.8	266.2	218.8	199.6	166.4	128.4	90.4	57.0	38.0	28.5
75°	271.0	237.8	199.6	166.4	147.4	128.4	95.1	66.5	42.8	28.5	19.0
77.5°	185.4	171.1	142.6	114.1	104.6	90.4	61.8	42.8	28.5	19.0	9.5
80°	128.4	114.1	95.1	76.1	66.5	57.0	38.0	28.5	14.2	9.5	4.8
82.5°	80.9	66.5	57.0	47.5	42.8	33.2	23.8	14.2	9.5	4.8	4.8
85°	42.8	38.0	33.2	23.8	23.8	19.0	14.2	9.5	4.8	0.0	0.0
87.5°	23.8	19.0	14.2	9.5	9.5	4.8	4.8	4.8	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°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	5001.5	5001.5	4996.8	5053.8	4987.2	5053.8	5020.5	5053.8	5006.2	5001.5	5006.2
5°	5039.5	5053.8	5058.5	5110.9	5049.0	5129.9	5101.2	5129.9	5096.5	5106.1	5120.4
7.5°	5115.6	5139.4	5134.6	5201.1	5139.4	5229.6	5210.6	5253.5	5220.1	5229.6	5248.8
10°	5201.1	5229.6	5234.4	5301.0	5244.0	5353.2	5329.5	5377.0	5348.5	5362.8	5386.6
12.5°	5301.0	5334.2	5339.0	5415.1	5353.2	5467.4	5453.1	5500.6	5476.9	5491.1	5519.6
15°	5377.0	5424.6	5434.1	5510.1	5443.6	5562.5	5553.0	5614.8	5576.8	5600.5	5624.2
17.5°	5415.1	5457.9	5476.9	5548.2	5491.1	5610.0	5600.5	5652.8	5624.2	5648.0	5676.6
20°	5391.4	5443.6	5457.9	5529.2	5472.1	5591.0	5576.8	5629.0	5600.5	5619.5	5648.0
22.5°	5305.8	5358.0	5377.0	5443.6	5391.4	5500.6	5495.9	5543.5	5505.4	5529.2	5553.0
25°	5153.6	5210.6	5220.1	5282.0	5224.9	5339.0	5329.5	5381.9	5353.2	5367.5	5400.9
27.5°	4934.9	5001.5	5015.8	5068.0	5025.2	5120.4	5120.4	5163.1	5129.9	5129.9	5163.1
30°	4673.4	4740.0	4749.5	4792.2	4754.2	4839.9	4844.6	4887.4	4835.1	4863.6	4868.4
32.5°	4354.9	4397.6	4426.2	4464.2	4407.2	4516.5	4502.2	4535.5	4507.0	4507.0	4530.8
35°	3969.8	4022.1	4036.4	4083.9	4036.4	4121.9	4121.9	4141.0	4112.4	4112.4	4150.5
37.5°	3551.4	3589.5	3594.2	3641.8	3603.8	3675.0	3670.2	3684.5	3656.0	3675.0	3675.0
40°	3061.8	3090.2	3099.8	3123.5	3118.8	3171.1	3166.4	3175.9	3161.6	3166.4	3175.9
42.5°	2491.2	2529.2	2548.2	2567.2	2538.8	2610.1	2595.9	2610.1	2605.4	2610.1	2624.4
45°	1835.1	1863.6	1877.9	1882.6	1873.1	1916.0	1949.2	1920.8	1925.5	1916.0	1935.0
47.5°	1326.4	1331.2	1321.6	1350.2	1326.4	1345.5	1355.0	1359.8	1331.2	1326.4	1345.5
50°	908.0	931.9	898.5	912.9	908.0	927.1	917.6	922.4	893.8	908.0	898.5
52.5°	603.8	599.0	589.5	594.2	584.8	584.8	584.8	594.2	575.2	565.8	556.2
55°	366.1	356.6	337.5	332.8	332.8	337.5	328.0	318.5	318.5	313.8	313.8
57.5°	214.0	199.6	190.1	185.4	175.9	171.1	166.4	166.4	156.9	156.9	156.9
60°	118.9	104.6	95.1	85.6	85.6	80.9	76.1	71.4	71.4	71.4	66.5
62.5°	61.8	52.2	42.8	38.0	38.0	33.2	28.5	28.5	28.5	28.5	23.8
65°	42.8	33.2	28.5	23.8	23.8	19.0	19.0	19.0	19.0	19.0	19.0
67.5°	33.2	28.5	23.8	19.0	19.0	19.0	14.2	14.2	14.2	14.2	14.2
70°	28.5	19.0	19.0	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	19.0	19.0	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
75°	14.2	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0
80°	4.8	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: P252206

CATALOG NUMBER: LE_6B60D010R EC6B60708027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	5049.0	5044.2	5049.0	5058.5	5039.5	5096.5	5068.0	5096.5
5°	5158.4	5163.1	5167.9	5182.1	5158.4	5229.6	5191.6	5234.4
7.5°	5301.0	5305.8	5310.5	5324.8	5310.5	5381.9	5339.0	5377.0
10°	5448.4	5457.9	5457.9	5481.6	5467.4	5534.0	5505.4	5553.0
12.5°	5586.2	5595.8	5605.2	5619.5	5610.0	5681.4	5657.5	5695.6
15°	5695.6	5714.6	5719.4	5738.4	5728.9	5805.0	5776.4	5814.5
17.5°	5747.9	5766.9	5766.9	5790.6	5781.1	5862.0	5824.0	5866.8
20°	5719.4	5733.6	5738.4	5762.1	5752.6	5833.5	5795.4	5847.8
22.5°	5629.0	5633.8	5638.5	5662.4	5657.5	5728.9	5695.6	5728.9
25°	5462.6	5476.9	5472.1	5491.1	5491.1	5548.2	5510.1	5538.8
27.5°	5224.9	5239.1	5239.1	5263.0	5244.0	5301.0	5263.0	5305.8
30°	4934.9	4949.1	4939.6	4958.6	4939.6	4996.8	4968.2	4982.5
32.5°	4587.9	4587.9	4592.6	4597.4	4587.9	4640.1	4611.6	4640.1
35°	4174.2	4183.8	4188.5	4193.2	4183.8	4221.8	4188.5	4207.5
37.5°	3708.4	3732.1	3727.4	3732.1	3717.9	3765.4	3736.9	3746.4
40°	3209.1	3209.1	3204.4	3213.9	3199.6	3237.6	3218.6	3228.1
42.5°	2629.1	2643.4	2624.4	2648.1	2610.1	2662.4	2643.4	2629.1
45°	1973.0	1954.0	1949.2	1954.0	1939.8	1944.5	1958.8	1949.2
47.5°	1345.5	1345.5	1336.0	1321.6	1340.8	1345.5	1326.4	1326.4
50°	903.2	903.2	893.8	889.0	898.5	893.8	884.2	898.5
52.5°	575.2	556.2	556.2	565.8	556.2	546.8	561.0	551.5
55°	313.8	304.2	304.2	313.8	304.2	304.2	299.5	309.0
57.5°	152.1	156.9	152.1	152.1	152.1	152.1	147.4	152.1
60°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
62.5°	28.5	28.5	23.8	23.8	23.8	23.8	23.8	23.8
65°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
67.5°	14.2	14.2	14.2	14.2	14.2	19.0	14.2	14.2
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	14.2	14.2	19.0	19.0	19.0	19.0	19.0	19.0
75°	9.5	9.5	9.5	4.8	4.8	4.8	4.8	4.8
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)