

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: P252222

Luminaire Tested: **LD6B70D010TE EU6B60708040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252222
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: LD6B70D010TE EU6B60708040 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9346.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

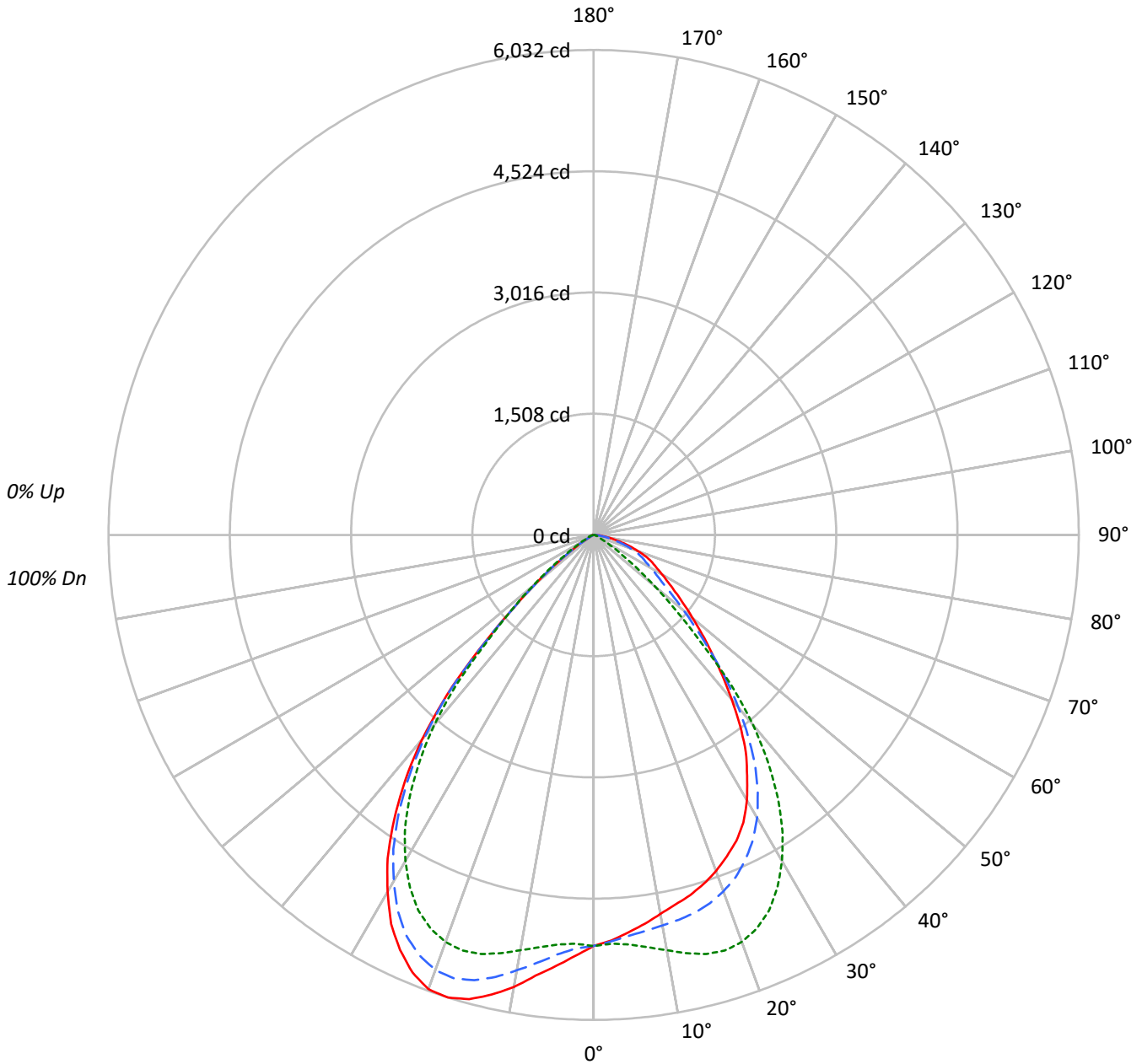
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	333575	333575	333575
5°	324928	334850	352453
10°	317025	347466	378231
15°	313314	364491	403780
20°	308828	373986	417427
25°	302258	371227	409933
30°	287231	352771	385918
35°	262786	318067	344540
40°	227298	262685	282673
45°	191679	172285	184907
50°	162729	99720	93773
55°	141224	47818	36136
60°	127558	22325	8925
65°	123760	12828	3026
70°	110960	10262	2804
75°	91174	7386	1235
80°	67965	3682	0
85°	58537	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.9	5.3
10°-20°	1505.1	16.1
20°-30°	2299.7	24.6
30°-40°	2405.3	25.7
40°-50°	1560.3	16.7
50°-60°	619.5	6.6
60°-70°	293.9	3.1
70°-80°	139.8	1.5
80°-90°	28.5	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°	4298.7	46.0
0°-40°	6704.0	71.7
0°-60°	8883.8	95.1
0°-90°	9346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9346.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5113	5113	5113	5113	5113	
5°	4962	5006	5113	5240	5382	468
15°	4639	4864	5396	5734	5978	1307
25°	4199	4463	5157	5504	5695	1923
35°	3300	3500	3994	4228	4326	2040
45°	2078	2058	1867	1980	2004	1617
55°	1242	1056	420	328	318	1125
65°	802	665	83	20	20	783
75°	362	293	29	10	5	390
85°	78	49	0	0	0	91
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°	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0
2.5°	5049.5	5059.2	5005.5	4990.8	5029.9	5044.6	5049.5	5034.8	5039.7	5059.2	5059.2
5°	4961.5	4971.2	4922.4	4907.7	4946.8	4956.6	4971.2	4966.4	4981.0	5010.3	5005.5
7.5°	4878.4	4893.0	4839.3	4819.7	4868.6	4893.0	4902.8	4902.8	4922.4	4961.5	4966.4
10°	4785.5	4805.0	4756.2	4746.4	4800.2	4824.6	4829.5	4839.3	4868.6	4922.4	4932.1
12.5°	4707.3	4726.8	4692.6	4678.0	4736.6	4761.1	4770.8	4790.4	4824.6	4893.0	4902.8
15°	4638.8	4653.5	4614.4	4604.6	4663.3	4692.6	4697.5	4726.8	4770.8	4849.0	4863.7
17.5°	4550.9	4560.6	4531.3	4521.5	4580.2	4609.5	4614.4	4648.6	4702.4	4780.6	4805.0
20°	4448.2	4458.0	4428.7	4418.9	4477.5	4511.8	4516.6	4546.0	4609.5	4692.6	4717.1
22.5°	4326.0	4345.6	4311.3	4301.6	4360.2	4389.6	4404.2	4428.7	4492.2	4575.3	4609.5
25°	4198.9	4198.9	4174.5	4169.6	4223.4	4257.6	4252.7	4286.9	4350.4	4433.5	4462.9
27.5°	4032.7	4027.8	4003.4	3998.5	4057.2	4086.5	4076.7	4110.9	4169.6	4252.7	4282.0
30°	3812.8	3822.5	3788.3	3778.5	3827.4	3876.3	3871.4	3905.6	3964.3	4042.5	4062.0
32.5°	3548.8	3558.6	3553.7	3539.0	3583.0	3607.5	3622.1	3646.6	3695.4	3778.5	3798.1
35°	3299.5	3284.8	3265.3	3265.3	3309.3	3348.4	3333.7	3363.0	3411.9	3495.0	3499.9
37.5°	2991.5	2986.7	2976.9	2967.1	3016.0	3025.8	3030.6	3050.2	3094.2	3162.6	3152.9
40°	2668.9	2673.8	2668.9	2649.4	2678.7	2717.8	2712.9	2722.7	2761.8	2810.7	2796.0
42.5°	2365.9	2365.9	2365.9	2346.3	2380.5	2400.1	2409.9	2405.0	2414.7	2458.7	2439.2
45°	2077.5	2082.3	2077.5	2072.6	2077.5	2087.2	2077.5	2072.6	2072.6	2087.2	2057.9
47.5°	1828.2	1828.2	1813.5	1798.8	1813.5	1818.4	1803.7	1789.1	1784.2	1779.3	1730.4
50°	1603.3	1598.4	1593.5	1569.1	1583.8	1588.6	1569.1	1559.3	1539.8	1515.3	1456.7
52.5°	1407.8	1402.9	1398.0	1373.6	1383.3	1388.2	1368.7	1349.1	1324.7	1305.1	1231.8
55°	1241.6	1236.7	1236.7	1222.0	1212.3	1222.0	1202.5	1187.8	1153.6	1129.2	1055.8
57.5°	1099.8	1099.8	1090.1	1075.4	1080.3	1080.3	1060.7	1041.2	1011.8	982.5	923.9
60°	977.6	977.6	977.6	963.0	963.0	963.0	953.2	933.6	909.2	879.9	821.2
62.5°	879.9	879.9	875.0	860.3	865.2	865.2	855.4	835.9	811.4	791.9	733.2
65°	801.7	801.7	801.7	787.0	787.0	791.9	782.1	762.6	743.0	718.6	664.8
67.5°	703.9	699.0	699.0	689.2	694.1	699.0	689.2	674.6	650.1	635.5	586.6
70°	581.7	586.6	591.5	576.8	581.7	581.7	576.8	562.1	547.5	532.8	488.8
72.5°	474.2	474.2	469.3	464.4	464.4	469.3	459.5	444.8	435.0	425.3	391.1
75°	361.7	356.8	361.7	351.9	351.9	351.9	342.2	337.3	332.4	317.7	293.3
77.5°	264.0	259.1	259.1	249.3	254.2	254.2	249.3	239.5	229.7	224.9	205.3
80°	180.9	180.9	180.9	176.0	176.0	171.1	171.1	166.2	156.4	151.5	141.8
82.5°	122.2	122.2	122.2	117.3	117.3	117.3	112.4	107.5	102.7	97.8	88.0
85°	78.2	78.2	78.2	73.3	73.3	73.3	68.4	68.4	63.5	58.7	48.9
87.5°	44.0	44.0	44.0	39.1	39.1	39.1	39.1	39.1	34.2	29.3	24.4
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°	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0
2.5°	5093.4	5025.0	5069.0	5069.0	5054.3	5093.4	5117.9	5137.4	5132.6	5088.6	5083.7
5°	5054.3	4995.7	5044.6	5049.5	5034.8	5088.6	5122.8	5147.2	5152.1	5113.0	5117.9
7.5°	5025.0	4976.1	5039.7	5059.2	5054.3	5103.2	5142.3	5181.4	5201.0	5171.7	5176.5
10°	5010.3	4971.2	5039.7	5069.0	5073.9	5127.7	5186.3	5240.1	5264.5	5245.0	5259.6
12.5°	4990.8	4966.4	5044.6	5088.6	5108.1	5161.9	5235.2	5298.7	5337.9	5328.1	5357.4
15°	4971.2	4951.7	5044.6	5108.1	5132.6	5181.4	5264.5	5357.4	5401.4	5396.5	5435.6
17.5°	4922.4	4917.5	5015.2	5083.7	5117.9	5176.5	5254.8	5367.2	5411.2	5421.0	5469.8
20°	4844.2	4844.2	4951.7	5025.0	5064.1	5117.9	5215.7	5323.2	5377.0	5386.7	5440.5
22.5°	4736.6	4746.4	4849.0	4922.4	4981.0	5020.1	5122.8	5235.2	5284.1	5298.7	5357.4
25°	4594.9	4604.6	4702.4	4775.7	4839.3	4883.3	4981.0	5083.7	5142.3	5157.0	5201.0
27.5°	4409.1	4428.7	4521.5	4594.9	4648.6	4678.0	4780.6	4888.1	4932.1	4946.8	4990.8
30°	4194.0	4198.9	4291.8	4355.3	4409.1	4433.5	4521.5	4634.0	4668.2	4682.8	4746.4
32.5°	3930.1	3925.2	4013.2	4071.8	4115.8	4145.1	4238.0	4311.3	4345.6	4370.0	4404.2
35°	3612.3	3607.5	3671.0	3739.4	3773.6	3783.4	3876.3	3954.5	3974.1	3993.6	4037.6
37.5°	3255.5	3255.5	3309.3	3343.5	3382.6	3397.3	3441.3	3529.2	3563.5	3558.6	3592.8
40°	2879.1	2859.6	2898.7	2932.9	2942.7	2947.6	2991.5	3060.0	3084.4	3084.4	3108.9
42.5°	2483.2	2453.8	2458.7	2478.3	2488.1	2453.8	2483.2	2527.2	2512.5	2532.1	2536.9
45°	2062.8	2018.8	1999.3	1955.3	1965.0	1930.8	1911.3	1921.0	1916.2	1867.3	1877.0
47.5°	1720.6	1642.4	1608.2	1544.7	1530.0	1490.9	1466.4	1422.5	1383.3	1383.3	1358.9
50°	1432.2	1354.0	1285.6	1212.3	1187.8	1153.6	1099.8	1041.2	1011.8	982.5	958.1
52.5°	1202.5	1119.4	1036.3	958.1	923.9	879.9	806.5	747.9	694.1	664.8	635.5
55°	1016.7	923.9	835.9	752.8	708.8	664.8	591.5	523.0	459.5	420.4	395.9
57.5°	875.0	787.0	694.1	606.1	567.0	518.1	439.9	366.6	308.0	264.0	239.5
60°	772.3	684.3	601.2	508.4	469.3	420.4	337.3	268.8	210.2	171.1	141.8
62.5°	684.3	606.1	518.1	435.0	395.9	347.1	268.8	200.4	146.6	107.5	83.1
65°	620.8	542.6	469.3	386.2	351.9	303.1	229.7	166.2	117.3	83.1	58.7
67.5°	547.5	479.0	405.7	337.3	303.1	264.0	195.5	141.8	97.8	68.4	48.9
70°	459.5	405.7	342.2	278.6	254.2	220.0	161.3	117.3	78.2	53.8	39.1
72.5°	366.6	322.6	273.7	224.9	205.3	171.1	132.0	92.9	58.7	39.1	29.3
75°	278.6	244.4	205.3	171.1	151.5	132.0	97.8	68.4	44.0	29.3	19.6
77.5°	190.6	176.0	146.6	117.3	107.5	92.9	63.5	44.0	29.3	19.6	9.8
80°	132.0	117.3	97.8	78.2	68.4	58.7	39.1	29.3	14.7	9.8	4.9
82.5°	83.1	68.4	58.7	48.9	44.0	34.2	24.4	14.7	9.8	4.9	4.9
85°	44.0	39.1	34.2	24.4	24.4	19.6	14.7	9.8	4.9	0.0	0.0
87.5°	24.4	19.6	14.7	9.8	9.8	4.9	4.9	4.9	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°	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0
2.5°	5142.3	5142.3	5137.4	5196.1	5127.7	5196.1	5161.9	5196.1	5147.2	5142.3	5147.2
5°	5181.4	5196.1	5201.0	5254.8	5191.2	5274.3	5245.0	5274.3	5240.1	5249.9	5264.5
7.5°	5259.6	5284.1	5279.2	5347.6	5284.1	5377.0	5357.4	5401.4	5367.2	5377.0	5396.5
10°	5347.6	5377.0	5381.8	5450.3	5391.6	5504.1	5479.6	5528.5	5499.2	5513.8	5538.3
12.5°	5450.3	5484.5	5489.4	5567.6	5504.1	5621.4	5606.7	5655.6	5631.1	5645.8	5675.1
15°	5528.5	5577.4	5587.1	5665.4	5596.9	5719.1	5709.4	5772.9	5733.8	5758.2	5782.7
17.5°	5567.6	5611.6	5631.1	5704.5	5645.8	5768.0	5758.2	5812.0	5782.7	5807.1	5836.4
20°	5543.2	5596.9	5611.6	5684.9	5626.3	5748.5	5733.8	5787.6	5758.2	5777.8	5807.1
22.5°	5455.2	5508.9	5528.5	5596.9	5543.2	5655.6	5650.7	5699.6	5660.5	5684.9	5709.4
25°	5298.7	5357.4	5367.2	5430.7	5372.1	5489.4	5479.6	5533.4	5504.1	5518.7	5552.9
27.5°	5073.9	5142.3	5157.0	5210.8	5166.8	5264.5	5264.5	5308.5	5274.3	5274.3	5308.5
30°	4805.0	4873.5	4883.3	4927.2	4888.1	4976.1	4981.0	5025.0	4971.2	5000.6	5005.5
32.5°	4477.5	4521.5	4550.9	4590.0	4531.3	4643.7	4629.1	4663.3	4634.0	4634.0	4658.4
35°	4081.6	4135.4	4150.0	4198.9	4150.0	4238.0	4238.0	4257.6	4228.2	4228.2	4267.4
37.5°	3651.4	3690.5	3695.4	3744.3	3705.2	3778.5	3773.6	3788.3	3759.0	3778.5	3778.5
40°	3148.0	3177.3	3187.1	3211.5	3206.6	3260.4	3255.5	3265.3	3250.6	3255.5	3265.3
42.5°	2561.4	2600.5	2620.0	2639.6	2610.3	2683.6	2668.9	2683.6	2678.7	2683.6	2698.3
45°	1886.8	1916.2	1930.8	1935.7	1925.9	1969.9	2004.1	1974.8	1979.7	1969.9	1989.5
47.5°	1363.8	1368.7	1358.9	1388.2	1363.8	1383.3	1393.1	1398.0	1368.7	1363.8	1383.3
50°	933.6	958.1	923.9	938.5	933.6	953.2	943.4	948.3	919.0	933.6	923.9
52.5°	620.8	615.9	606.1	611.0	601.2	601.2	601.2	611.0	591.5	581.7	571.9
55°	376.4	366.6	347.1	342.2	342.2	347.1	337.3	327.5	327.5	322.6	322.6
57.5°	220.0	205.3	195.5	190.6	180.9	176.0	171.1	171.1	161.3	161.3	161.3
60°	122.2	107.5	97.8	88.0	88.0	83.1	78.2	73.3	73.3	73.3	68.4
62.5°	63.5	53.8	44.0	39.1	39.1	34.2	29.3	29.3	29.3	29.3	24.4
65°	44.0	34.2	29.3	24.4	24.4	19.6	19.6	19.6	19.6	19.6	19.6
67.5°	34.2	29.3	24.4	19.6	19.6	19.6	14.7	14.7	14.7	14.7	14.7
70°	29.3	19.6	19.6	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
72.5°	19.6	19.6	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
75°	14.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	4.9	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: P252222

CATALOG NUMBER: LD6B70D010TE EU6B60708040 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0	5113.0
2.5°	5191.2	5186.3	5191.2	5201.0	5181.4	5240.1	5210.8	5240.1
5°	5303.6	5308.5	5313.4	5328.1	5303.6	5377.0	5337.9	5381.8
7.5°	5450.3	5455.2	5460.1	5474.7	5460.1	5533.4	5489.4	5528.5
10°	5601.8	5611.6	5611.6	5636.0	5621.4	5689.8	5660.5	5709.4
12.5°	5743.6	5753.3	5763.1	5777.8	5768.0	5841.3	5816.9	5856.0
15°	5856.0	5875.6	5880.4	5900.0	5890.2	5968.4	5939.1	5978.2
17.5°	5909.8	5929.3	5929.3	5953.8	5944.0	6027.1	5988.0	6032.0
20°	5880.4	5895.1	5900.0	5924.4	5914.7	5997.8	5958.6	6012.4
22.5°	5787.6	5792.5	5797.3	5821.8	5816.9	5890.2	5856.0	5890.2
25°	5616.5	5631.1	5626.3	5645.8	5645.8	5704.5	5665.4	5694.7
27.5°	5372.1	5386.7	5386.7	5411.2	5391.6	5450.3	5411.2	5455.2
30°	5073.9	5088.6	5078.8	5098.3	5078.8	5137.4	5108.1	5122.8
32.5°	4717.1	4717.1	4721.9	4726.8	4717.1	4770.8	4741.5	4770.8
35°	4291.8	4301.6	4306.5	4311.3	4301.6	4340.7	4306.5	4326.0
37.5°	3812.8	3837.2	3832.3	3837.2	3822.5	3871.4	3842.1	3851.9
40°	3299.5	3299.5	3294.6	3304.4	3289.7	3328.8	3309.3	3319.1
42.5°	2703.1	2717.8	2698.3	2722.7	2683.6	2737.4	2717.8	2703.1
45°	2028.6	2009.0	2004.1	2009.0	1994.4	1999.3	2013.9	2004.1
47.5°	1383.3	1383.3	1373.6	1358.9	1378.5	1383.3	1363.8	1363.8
50°	928.7	928.7	919.0	914.1	923.9	919.0	909.2	923.9
52.5°	591.5	571.9	571.9	581.7	571.9	562.1	576.8	567.0
55°	322.6	312.8	312.8	322.6	312.8	312.8	308.0	317.7
57.5°	156.4	161.3	156.4	156.4	156.4	156.4	151.5	156.4
60°	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
62.5°	29.3	29.3	24.4	24.4	24.4	24.4	24.4	24.4
65°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
67.5°	14.7	14.7	14.7	14.7	14.7	19.6	14.7	14.7
70°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
72.5°	14.7	14.7	19.6	19.6	19.6	19.6	19.6	19.6
75°	9.8	9.8	9.8	4.9	4.9	4.9	4.9	4.9
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)