

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: P252219

Luminaire Tested: **LD6B70D010TE EU6B60708027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252219
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 EU6B60708027 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: 8630.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

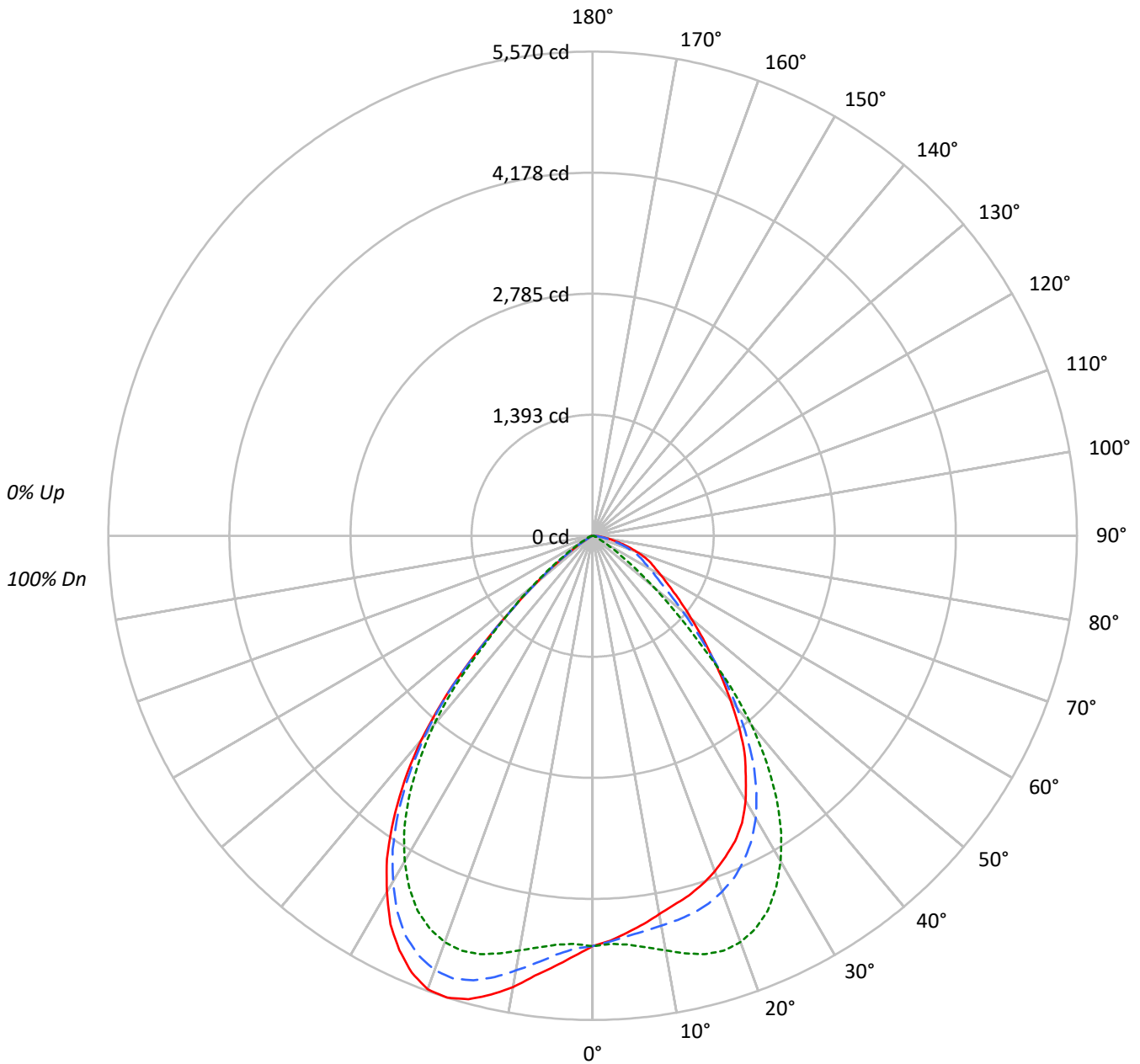
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	308021	308021	308021
5°	300035	309197	325452
10°	292739	320848	349255
15°	289316	336569	372846
20°	285167	345340	385448
25°	279101	342786	378526
30°	265226	325749	356350
35°	242652	293704	318146
40°	209891	242560	261015
45°	176990	159082	170744
50°	150265	92078	86587
55°	130407	44155	33372
60°	117785	20616	8246
65°	114267	11840	2794
70°	102452	9480	2575
75°	84192	6831	1134
80°	62743	3381	0
85°	54045	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.0	5.3
10°-20°	1389.8	16.1
20°-30°	2123.5	24.6
30°-40°	2221.0	25.7
40°-50°	1440.8	16.7
50°-60°	572.1	6.6
60°-70°	271.4	3.1
70°-80°	129.1	1.5
80°-90°	26.3	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°	3969.4	46.0
0°-40°	6190.4	71.7
0°-60°	8203.2	95.1
0°-90°	8630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8630.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4721	4721	4721	4721	4721	
5°	4581	4622	4721	4839	4970	433
15°	4284	4491	4983	5294	5520	1207
25°	3877	4121	4762	5082	5258	1775
35°	3047	3232	3688	3904	3995	1884
45°	1918	1900	1724	1828	1851	1493
55°	1146	975	388	302	293	1039
65°	740	614	77	18	18	723
75°	334	271	27	9	4	360
85°	72	45	0	0	0	84
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°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4662.6	4671.6	4622.0	4608.4	4644.6	4658.1	4662.6	4649.1	4653.6	4671.6	4671.6
5°	4581.4	4590.4	4545.3	4531.7	4567.8	4576.9	4590.4	4585.9	4599.4	4626.5	4622.0
7.5°	4504.6	4518.2	4468.5	4450.5	4495.6	4518.2	4527.2	4527.2	4545.3	4581.4	4585.9
10°	4418.9	4436.9	4391.8	4382.8	4432.4	4455.0	4459.5	4468.5	4495.6	4545.3	4554.3
12.5°	4346.7	4364.7	4333.1	4319.6	4373.7	4396.3	4405.3	4423.4	4455.0	4518.2	4527.2
15°	4283.5	4297.0	4260.9	4251.9	4306.0	4333.1	4337.6	4364.7	4405.3	4477.6	4491.1
17.5°	4202.2	4211.2	4184.2	4175.1	4229.3	4256.4	4260.9	4292.5	4342.1	4414.4	4436.9
20°	4107.4	4116.5	4089.4	4080.4	4134.5	4166.1	4170.6	4197.7	4256.4	4333.1	4355.7
22.5°	3994.6	4012.6	3981.1	3972.0	4026.2	4053.3	4066.8	4089.4	4148.1	4224.8	4256.4
25°	3877.2	3877.2	3854.7	3850.2	3899.8	3931.4	3926.9	3958.5	4017.2	4093.9	4121.0
27.5°	3723.8	3719.3	3696.7	3692.2	3746.3	3773.4	3764.4	3796.0	3850.2	3926.9	3954.0
30°	3520.7	3529.7	3498.1	3489.1	3534.2	3579.3	3574.8	3606.4	3660.6	3732.8	3750.9
32.5°	3276.9	3285.9	3281.4	3267.9	3308.5	3331.1	3344.6	3367.2	3412.3	3489.1	3507.1
35°	3046.7	3033.2	3015.1	3015.1	3055.7	3091.9	3078.3	3105.4	3150.5	3227.3	3231.8
37.5°	2762.4	2757.8	2748.8	2739.8	2784.9	2794.0	2798.5	2816.5	2857.1	2920.3	2911.3
40°	2464.5	2469.0	2464.5	2446.4	2473.5	2509.6	2505.1	2514.1	2550.2	2595.4	2581.8
42.5°	2184.6	2184.6	2184.6	2166.6	2198.2	2216.2	2225.2	2220.7	2229.7	2270.4	2252.3
45°	1918.3	1922.8	1918.3	1913.8	1918.3	1927.3	1918.3	1913.8	1913.8	1927.3	1900.3
47.5°	1688.1	1688.1	1674.6	1661.0	1674.6	1679.1	1665.5	1652.0	1647.5	1643.0	1597.8
50°	1480.5	1476.0	1471.5	1448.9	1462.4	1466.9	1448.9	1439.9	1421.8	1399.2	1345.1
52.5°	1299.9	1295.4	1290.9	1268.3	1277.4	1281.9	1263.8	1245.8	1223.2	1205.1	1137.4
55°	1146.5	1142.0	1142.0	1128.4	1119.4	1128.4	1110.4	1096.8	1065.2	1042.7	975.0
57.5°	1015.6	1015.6	1006.5	993.0	997.5	997.5	979.5	961.4	934.3	907.2	853.1
60°	902.7	902.7	902.7	889.2	889.2	889.2	880.2	862.1	839.5	812.5	758.3
62.5°	812.5	812.5	807.9	794.4	798.9	798.9	789.9	771.8	749.3	731.2	677.0
65°	740.2	740.2	740.2	726.7	726.7	731.2	722.2	704.1	686.1	663.5	613.9
67.5°	650.0	645.5	645.5	636.4	640.9	645.5	636.4	622.9	600.3	586.8	541.6
70°	537.1	541.6	546.2	532.6	537.1	537.1	532.6	519.1	505.5	492.0	451.4
72.5°	437.8	437.8	433.3	428.8	428.8	433.3	424.3	410.7	401.7	392.7	361.1
75°	334.0	329.5	334.0	325.0	325.0	325.0	316.0	311.4	306.9	293.4	270.8
77.5°	243.7	239.2	239.2	230.2	234.7	234.7	230.2	221.2	212.1	207.6	189.6
80°	167.0	167.0	167.0	162.5	162.5	158.0	158.0	153.5	144.4	139.9	130.9
82.5°	112.8	112.8	112.8	108.3	108.3	108.3	103.8	99.3	94.8	90.3	81.2
85°	72.2	72.2	72.2	67.7	67.7	67.7	63.2	63.2	58.7	54.2	45.1
87.5°	40.6	40.6	40.6	36.1	36.1	36.1	36.1	36.1	31.6	27.1	22.6
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°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4703.2	4640.0	4680.7	4680.7	4667.1	4703.2	4725.8	4743.9	4739.3	4698.7	4694.2
5°	4667.1	4613.0	4658.1	4662.6	4649.1	4698.7	4730.3	4752.9	4757.4	4721.3	4725.8
7.5°	4640.0	4594.9	4653.6	4671.6	4667.1	4712.3	4748.4	4784.5	4802.5	4775.5	4780.0
10°	4626.5	4590.4	4653.6	4680.7	4685.2	4734.8	4789.0	4838.6	4861.2	4843.2	4856.7
12.5°	4608.4	4585.9	4658.1	4698.7	4716.8	4766.4	4834.1	4892.8	4928.9	4919.9	4947.0
15°	4590.4	4572.3	4658.1	4716.8	4739.3	4784.5	4861.2	4947.0	4987.6	4983.1	5019.2
17.5°	4545.3	4540.7	4631.0	4694.2	4725.8	4780.0	4852.2	4956.0	4996.6	5005.7	5050.8
20°	4473.0	4473.0	4572.3	4640.0	4676.2	4725.8	4816.1	4915.4	4965.0	4974.1	5023.7
22.5°	4373.7	4382.8	4477.6	4545.3	4599.4	4635.5	4730.3	4834.1	4879.3	4892.8	4947.0
25°	4242.8	4251.9	4342.1	4409.8	4468.5	4509.1	4599.4	4694.2	4748.4	4761.9	4802.5
27.5°	4071.3	4089.4	4175.1	4242.8	4292.5	4319.6	4414.4	4513.7	4554.3	4567.8	4608.4
30°	3872.7	3877.2	3963.0	4021.7	4071.3	4093.9	4175.1	4279.0	4310.5	4324.1	4382.8
32.5°	3629.0	3624.5	3705.7	3759.9	3800.5	3827.6	3913.3	3981.1	4012.6	4035.2	4066.8
35°	3335.6	3331.1	3389.8	3453.0	3484.5	3493.6	3579.3	3651.6	3669.6	3687.7	3728.3
37.5°	3006.1	3006.1	3055.7	3087.3	3123.5	3137.0	3177.6	3258.9	3290.5	3285.9	3317.5
40°	2658.5	2640.5	2676.6	2708.2	2717.2	2721.7	2762.4	2825.6	2848.1	2848.1	2870.7
42.5°	2292.9	2265.9	2270.4	2288.4	2297.5	2265.9	2292.9	2333.6	2320.0	2338.1	2342.6
45°	1904.8	1864.1	1846.1	1805.5	1814.5	1782.9	1764.8	1773.9	1769.4	1724.2	1733.2
47.5°	1588.8	1516.6	1485.0	1426.3	1412.8	1376.7	1354.1	1313.5	1277.4	1277.4	1254.8
50°	1322.5	1250.3	1187.1	1119.4	1096.8	1065.2	1015.6	961.4	934.3	907.2	884.7
52.5°	1110.4	1033.6	956.9	884.7	853.1	812.5	744.8	690.6	640.9	613.9	586.8
55°	938.8	853.1	771.8	695.1	654.5	613.9	546.2	483.0	424.3	388.2	365.6
57.5°	807.9	726.7	640.9	559.7	523.6	478.4	406.2	338.5	284.4	243.7	221.2
60°	713.2	631.9	555.2	469.4	433.3	388.2	311.4	248.3	194.1	158.0	130.9
62.5°	631.9	559.7	478.4	401.7	365.6	320.5	248.3	185.1	135.4	99.3	76.7
65°	573.2	501.0	433.3	356.6	325.0	279.8	212.1	153.5	108.3	76.7	54.2
67.5°	505.5	442.3	374.6	311.4	279.8	243.7	180.5	130.9	90.3	63.2	45.1
70°	424.3	374.6	316.0	257.3	234.7	203.1	149.0	108.3	72.2	49.7	36.1
72.5°	338.5	297.9	252.8	207.6	189.6	158.0	121.9	85.8	54.2	36.1	27.1
75°	257.3	225.7	189.6	158.0	139.9	121.9	90.3	63.2	40.6	27.1	18.1
77.5°	176.0	162.5	135.4	108.3	99.3	85.8	58.7	40.6	27.1	18.1	9.0
80°	121.9	108.3	90.3	72.2	63.2	54.2	36.1	27.1	13.5	9.0	4.5
82.5°	76.7	63.2	54.2	45.1	40.6	31.6	22.6	13.5	9.0	4.5	4.5
85°	40.6	36.1	31.6	22.6	22.6	18.1	13.5	9.0	4.5	0.0	0.0
87.5°	22.6	18.1	13.5	9.0	9.0	4.5	4.5	4.5	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°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4748.4	4748.4	4743.9	4798.0	4734.8	4798.0	4766.4	4798.0	4752.9	4748.4	4752.9
5°	4784.5	4798.0	4802.5	4852.2	4793.5	4870.2	4843.2	4870.2	4838.6	4847.7	4861.2
7.5°	4856.7	4879.3	4874.8	4937.9	4879.3	4965.0	4947.0	4987.6	4956.0	4965.0	4983.1
10°	4937.9	4965.0	4969.5	5032.7	4978.6	5082.4	5059.8	5105.0	5077.9	5091.4	5114.0
12.5°	5032.7	5064.3	5068.8	5141.1	5082.4	5190.7	5177.2	5222.3	5199.7	5213.3	5240.4
15°	5105.0	5150.1	5159.1	5231.3	5168.1	5281.0	5272.0	5330.6	5294.5	5317.1	5339.7
17.5°	5141.1	5181.7	5199.7	5267.4	5213.3	5326.1	5317.1	5366.7	5339.7	5362.2	5389.3
20°	5118.5	5168.1	5181.7	5249.4	5195.2	5308.1	5294.5	5344.2	5317.1	5335.1	5362.2
22.5°	5037.2	5086.9	5105.0	5168.1	5118.5	5222.3	5217.8	5262.9	5226.8	5249.4	5272.0
25°	4892.8	4947.0	4956.0	5014.7	4960.5	5068.8	5059.8	5109.5	5082.4	5095.9	5127.5
27.5°	4685.2	4748.4	4761.9	4811.6	4770.9	4861.2	4861.2	4901.8	4870.2	4870.2	4901.8
30°	4436.9	4500.1	4509.1	4549.8	4513.7	4594.9	4599.4	4640.0	4590.4	4617.5	4622.0
32.5°	4134.5	4175.1	4202.2	4238.3	4184.2	4288.0	4274.4	4306.0	4279.0	4279.0	4301.5
35°	3768.9	3818.6	3832.1	3877.2	3832.1	3913.3	3913.3	3931.4	3904.3	3904.3	3940.4
37.5°	3371.7	3407.8	3412.3	3457.5	3421.4	3489.1	3484.5	3498.1	3471.0	3489.1	3489.1
40°	2906.8	2933.9	2942.9	2965.5	2961.0	3010.6	3006.1	3015.1	3001.6	3006.1	3015.1
42.5°	2365.2	2401.3	2419.3	2437.4	2410.3	2478.0	2464.5	2478.0	2473.5	2478.0	2491.5
45°	1742.3	1769.4	1782.9	1787.4	1778.4	1819.0	1850.6	1823.5	1828.0	1819.0	1837.1
47.5°	1259.3	1263.8	1254.8	1281.9	1259.3	1277.4	1286.4	1290.9	1263.8	1259.3	1277.4
50°	862.1	884.7	853.1	866.6	862.1	880.2	871.1	875.7	848.6	862.1	853.1
52.5°	573.2	568.7	559.7	564.2	555.2	555.2	555.2	564.2	546.2	537.1	528.1
55°	347.6	338.5	320.5	316.0	316.0	320.5	311.4	302.4	302.4	297.9	297.9
57.5°	203.1	189.6	180.5	176.0	167.0	162.5	158.0	158.0	149.0	149.0	149.0
60°	112.8	99.3	90.3	81.2	81.2	76.7	72.2	67.7	67.7	67.7	63.2
62.5°	58.7	49.7	40.6	36.1	36.1	31.6	27.1	27.1	27.1	27.1	22.6
65°	40.6	31.6	27.1	22.6	22.6	18.1	18.1	18.1	18.1	18.1	18.1
67.5°	31.6	27.1	22.6	18.1	18.1	18.1	13.5	13.5	13.5	13.5	13.5
70°	27.1	18.1	18.1	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
72.5°	18.1	18.1	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
75°	13.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0
80°	4.5	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: P252219

CATALOG NUMBER: LD6B70D010TE EU6B60708027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4793.5	4789.0	4793.5	4802.5	4784.5	4838.6	4811.6	4838.6
5°	4897.3	4901.8	4906.4	4919.9	4897.3	4965.0	4928.9	4969.5
7.5°	5032.7	5037.2	5041.8	5055.3	5041.8	5109.5	5068.8	5105.0
10°	5172.7	5181.7	5181.7	5204.3	5190.7	5253.9	5226.8	5272.0
12.5°	5303.6	5312.6	5321.6	5335.1	5326.1	5393.8	5371.3	5407.4
15°	5407.4	5425.4	5429.9	5448.0	5439.0	5511.2	5484.1	5520.2
17.5°	5457.0	5475.1	5475.1	5497.6	5488.6	5565.3	5529.2	5569.9
20°	5429.9	5443.5	5448.0	5470.6	5461.5	5538.3	5502.2	5551.8
22.5°	5344.2	5348.7	5353.2	5375.8	5371.3	5439.0	5407.4	5439.0
25°	5186.2	5199.7	5195.2	5213.3	5213.3	5267.4	5231.3	5258.4
27.5°	4960.5	4974.1	4974.1	4996.6	4978.6	5032.7	4996.6	5037.2
30°	4685.2	4698.7	4689.7	4707.8	4689.7	4743.9	4716.8	4730.3
32.5°	4355.7	4355.7	4360.2	4364.7	4355.7	4405.3	4378.3	4405.3
35°	3963.0	3972.0	3976.5	3981.1	3972.0	4008.1	3976.5	3994.6
37.5°	3520.7	3543.2	3538.7	3543.2	3529.7	3574.8	3547.7	3556.8
40°	3046.7	3046.7	3042.2	3051.2	3037.7	3073.8	3055.7	3064.8
42.5°	2496.1	2509.6	2491.5	2514.1	2478.0	2527.7	2509.6	2496.1
45°	1873.2	1855.1	1850.6	1855.1	1841.6	1846.1	1859.6	1850.6
47.5°	1277.4	1277.4	1268.3	1254.8	1272.9	1277.4	1259.3	1259.3
50°	857.6	857.6	848.6	844.1	853.1	848.6	839.5	853.1
52.5°	546.2	528.1	528.1	537.1	528.1	519.1	532.6	523.6
55°	297.9	288.9	288.9	297.9	288.9	288.9	284.4	293.4
57.5°	144.4	149.0	144.4	144.4	144.4	144.4	139.9	144.4
60°	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
62.5°	27.1	27.1	22.6	22.6	22.6	22.6	22.6	22.6
65°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
67.5°	13.5	13.5	13.5	13.5	13.5	18.1	13.5	13.5
70°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
72.5°	13.5	13.5	18.1	18.1	18.1	18.1	18.1	18.1
75°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	4.5
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)