

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: P212784

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208030 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1400.9 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

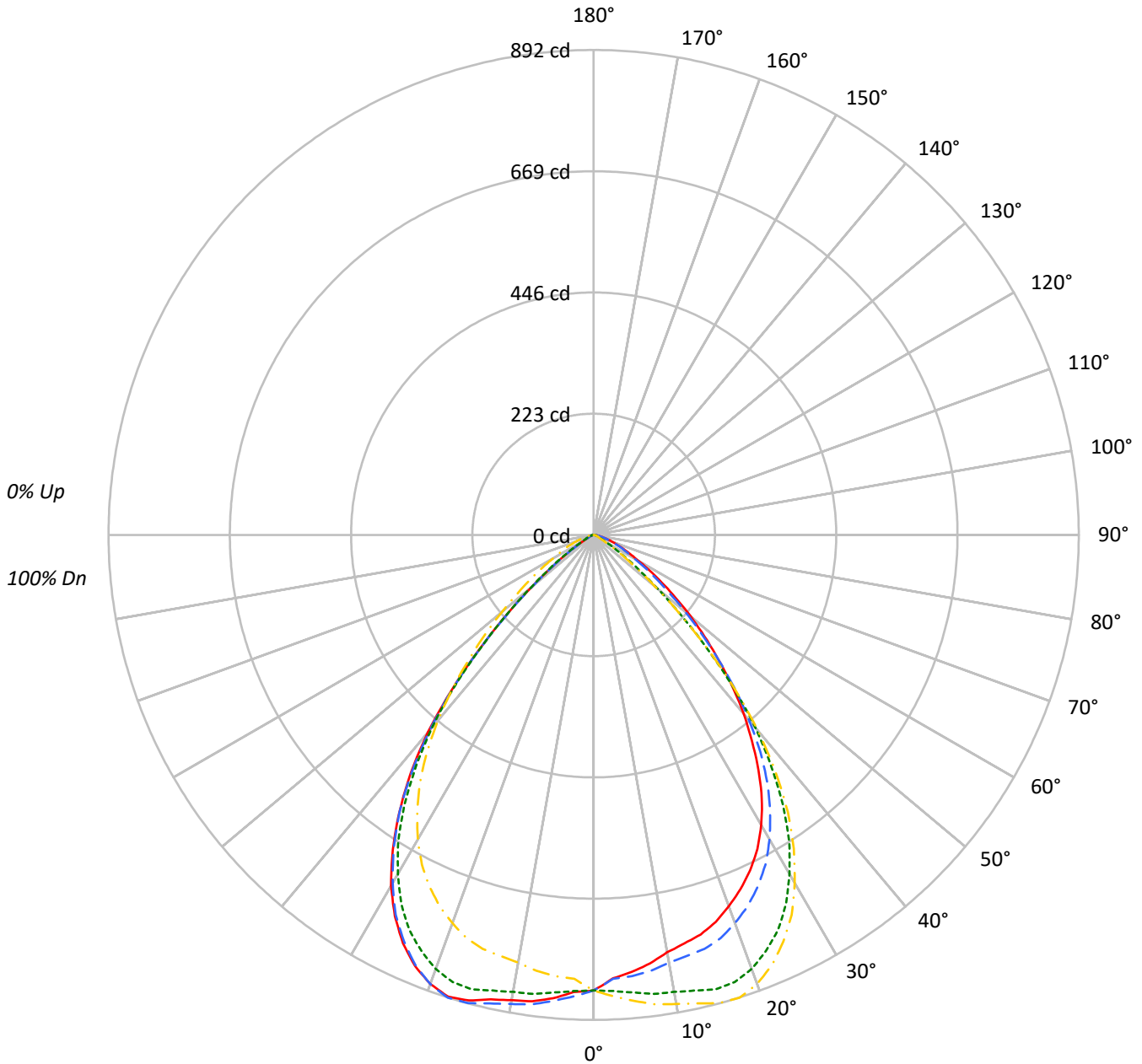
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	45934	45934	45934	45934
5°	44387	46483	47072	46483
10°	43380	47511	48379	47511
15°	43178	49104	50318	49104
20°	42395	49564	51268	49564
25°	41180	48499	50150	48499
30°	39019	45564	47172	45564
35°	35382	40602	41713	40602
40°	30715	33083	33921	33083
45°	25181	22840	22987	22840
50°	19795	12810	12562	12810
55°	14633	6337	5687	6337
60°	10372	2785	2028	2785
65°	7718	1777	1271	1777
70°	5626	1410	946	1410
75°	4130	1038	614	1038
80°	2778	916	316	916
85°	1824	629	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	5.7
10°-20°	237.6	17.0
20°-30°	354.5	25.3
30°-40°	364.2	26.0
40°-50°	235.9	16.8
50°-60°	87.7	6.3
60°-70°	28.8	2.1
70°-80°	10.2	0.7
80°-90°	1.8	0.1
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°	672.3	48.0
0°-40°	1036.5	74.0
0°-60°	1360.1	97.1
0°-90°	1400.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1400.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	838	838	838	838	838	
5°	807	845	855	845	807	76
15°	761	865	887	865	761	214
25°	681	802	829	802	681	312
35°	529	607	623	607	529	328
45°	325	295	296	295	325	251
55°	153	66	60	66	153	140
65°	60	14	10	14	60	60
75°	20	5	3	5	20	21
85°	3	1	1	1	3	4
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°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	816.4	828.1	820.3	825.2	817.4	817.4	833.0	824.2	831.0	824.2	817.4
5°	806.6	821.3	811.5	816.4	809.6	810.6	825.2	818.4	825.2	820.3	814.5
7.5°	794.9	809.6	800.8	805.7	798.8	800.8	816.4	809.6	817.4	812.5	808.6
10°	779.3	794.9	787.1	792.0	786.2	787.1	802.7	797.9	804.7	801.8	798.8
12.5°	769.6	784.2	775.4	780.3	776.4	778.4	793.0	789.1	797.9	794.9	793.0
15°	760.8	774.5	766.7	771.5	768.6	769.6	785.2	781.3	791.0	789.1	788.1
17.5°	746.2	760.8	752.0	757.9	755.0	755.9	771.5	768.6	778.4	778.4	777.4
20°	726.7	741.3	734.5	738.4	736.4	738.4	752.0	750.1	759.8	759.8	759.8
22.5°	705.2	719.8	712.0	715.9	714.0	716.9	729.6	729.6	737.4	738.4	739.3
25°	680.8	695.5	687.7	692.5	690.6	692.5	704.2	705.2	712.0	712.0	714.0
27.5°	651.6	666.2	658.4	662.3	661.3	662.3	675.0	676.9	680.8	681.8	683.7
30°	616.4	630.1	622.3	626.2	626.2	626.2	638.9	639.9	643.8	644.7	646.7
32.5°	575.5	587.2	581.3	585.2	584.3	586.2	595.0	598.9	603.8	602.8	603.8
35°	528.7	541.3	535.5	538.4	539.4	542.3	548.2	553.0	554.0	555.0	556.9
37.5°	477.9	490.6	484.8	487.7	488.7	494.5	496.5	501.4	503.3	503.3	503.3
40°	429.2	435.0	430.1	433.1	434.0	438.9	440.9	444.8	446.7	445.8	444.8
42.5°	376.5	381.4	376.5	379.4	379.4	383.3	384.3	389.2	389.2	387.2	384.3
45°	324.8	329.7	324.8	326.8	326.8	330.7	330.7	330.7	332.6	329.7	324.8
47.5°	276.0	280.9	276.0	278.0	277.0	279.9	279.0	279.9	277.0	275.1	269.2
50°	232.1	234.1	232.1	231.2	232.1	234.1	233.1	233.1	229.2	226.3	219.5
52.5°	189.2	192.2	189.2	189.2	189.2	191.2	191.2	190.2	186.3	182.4	175.6
55°	153.1	155.1	154.1	153.1	153.1	155.1	153.1	153.1	149.2	146.3	139.5
57.5°	121.9	122.9	121.9	121.9	121.9	122.9	122.9	120.9	118.0	115.1	110.2
60°	94.6	95.6	95.6	94.6	94.6	96.6	96.6	95.6	92.7	90.7	85.8
62.5°	75.1	75.1	75.1	75.1	75.1	76.1	76.1	76.1	74.1	72.2	68.3
65°	59.5	60.5	59.5	59.5	60.5	61.4	60.5	61.4	59.5	58.5	55.6
67.5°	45.8	46.8	45.8	46.8	46.8	47.8	46.8	47.8	45.8	44.9	42.9
70°	35.1	35.1	35.1	35.1	35.1	36.1	35.1	36.1	35.1	34.1	32.2
72.5°	26.3	26.3	27.3	27.3	26.3	27.3	26.3	26.3	26.3	25.4	24.4
75°	19.5	19.5	20.5	19.5	19.5	19.5	19.5	19.5	18.5	18.5	17.6
77.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	12.7	12.7	11.7
80°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	7.8	7.8
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.9	4.9
85°	2.9	2.9	2.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	825.2	828.1	828.1	825.2	832.0	826.2	837.9	827.1	830.1	839.8	838.8
5°	822.3	826.2	827.1	825.2	834.0	829.1	840.8	830.1	834.9	844.7	844.7
7.5°	818.4	823.2	825.2	827.1	834.9	830.1	843.7	833.0	839.8	851.5	850.5
10°	809.6	816.4	820.3	823.2	831.0	828.1	842.7	834.0	839.8	853.5	852.5
12.5°	804.7	812.5	818.4	823.2	832.0	830.1	844.7	836.9	844.7	858.3	858.3
15°	800.8	809.6	816.4	825.2	834.0	832.0	847.6	840.8	848.6	865.2	864.2
17.5°	791.0	801.8	808.6	818.4	827.1	826.2	842.7	837.9	846.6	862.2	863.2
20°	774.5	784.2	792.0	803.7	813.5	811.5	829.1	824.2	833.0	849.6	850.5
22.5°	753.0	762.8	770.6	783.2	792.0	791.0	808.6	803.7	812.5	828.1	829.1
25°	727.6	736.4	744.2	755.9	765.7	765.7	781.3	776.4	786.2	801.8	801.8
27.5°	696.4	704.2	711.1	724.7	732.5	732.5	747.2	742.3	752.0	765.7	764.7
30°	658.4	665.2	671.1	682.8	689.6	690.6	703.3	698.4	708.1	719.8	719.8
32.5°	612.5	619.4	623.3	637.9	642.8	641.8	651.6	646.7	656.4	669.1	666.2
35°	563.8	566.7	569.6	584.3	586.2	582.3	592.1	587.2	594.0	606.7	604.7
37.5°	508.2	509.2	509.2	521.8	522.8	519.9	525.7	519.9	524.8	536.5	535.5
40°	446.7	445.8	444.8	454.5	453.6	447.7	451.6	446.7	453.6	462.3	457.5
42.5°	384.3	381.4	377.5	382.4	378.5	373.6	375.5	367.7	372.6	379.4	373.6
45°	322.9	317.0	309.2	310.2	305.3	299.4	296.5	288.7	287.7	294.6	289.7
47.5°	265.3	253.6	246.8	242.9	235.1	230.2	224.3	215.6	211.7	215.6	210.7
50°	213.6	201.9	193.1	184.3	176.5	170.7	160.9	155.1	149.2	150.2	146.3
52.5°	168.7	160.9	146.3	139.5	131.7	124.9	116.1	109.2	102.4	102.4	98.5
55°	133.6	122.9	113.1	103.4	95.6	89.7	81.0	74.1	67.3	66.3	62.4
57.5°	103.4	95.6	84.9	75.1	70.2	64.4	55.6	47.8	43.9	41.0	38.0
60°	80.0	72.2	63.4	55.6	49.7	45.8	37.1	31.2	27.3	25.4	22.4
62.5°	64.4	57.5	49.7	41.9	38.0	34.1	27.3	22.4	18.5	16.6	14.6
65°	51.7	45.8	40.0	34.1	31.2	27.3	22.4	18.5	15.6	13.7	11.7
67.5°	40.0	36.1	31.2	27.3	24.4	21.5	17.6	14.6	12.7	10.7	9.8
70°	30.2	27.3	24.4	20.5	18.5	16.6	13.7	10.7	9.8	8.8	7.8
72.5°	23.4	20.5	17.6	15.6	13.7	12.7	10.7	8.8	7.8	6.8	5.9
75°	15.6	14.6	12.7	10.7	9.8	8.8	7.8	6.8	5.9	4.9	4.9
77.5°	10.7	9.8	8.8	7.8	6.8	6.8	5.9	4.9	3.9	3.9	2.9
80°	6.8	5.9	5.9	4.9	4.9	4.9	3.9	2.9	2.9	2.9	2.0
82.5°	4.9	3.9	3.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	1.0
85°	2.9	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	831.0	839.8	839.8	847.6	848.6	846.6	837.9	837.9	849.6	856.4	844.7
5°	838.8	847.6	847.6	855.4	859.3	856.4	847.6	848.6	860.3	868.1	856.4
7.5°	845.7	854.4	856.4	865.2	868.1	865.2	856.4	858.3	871.0	877.9	866.1
10°	848.6	857.4	858.3	868.1	872.0	868.1	861.3	862.2	875.9	880.8	870.0
12.5°	855.4	864.2	864.2	874.9	878.8	875.9	867.1	869.1	882.7	887.6	876.9
15°	862.2	871.0	871.0	882.7	887.6	883.7	876.9	877.9	891.5	896.4	887.6
17.5°	862.2	870.0	870.0	882.7	887.6	884.7	876.9	877.9	892.5	896.4	887.6
20°	849.6	858.3	856.4	869.1	874.0	871.0	864.2	864.2	878.8	882.7	874.0
22.5°	829.1	836.9	834.9	846.6	852.5	848.6	842.7	841.8	856.4	860.3	851.5
25°	800.8	808.6	806.6	818.4	824.2	819.3	812.5	813.5	825.2	831.0	823.2
27.5°	767.6	772.5	769.6	781.3	787.1	782.3	775.4	776.4	788.1	792.0	786.2
30°	722.8	726.7	723.7	733.5	737.4	734.5	728.6	728.6	739.3	744.2	738.4
32.5°	669.1	672.0	669.1	676.9	684.7	678.9	673.0	673.0	684.7	688.6	681.8
35°	606.7	609.6	607.7	615.5	621.3	613.5	608.6	606.7	622.3	620.3	616.4
37.5°	537.4	539.4	533.5	547.2	550.1	541.3	537.4	535.5	549.1	548.2	544.3
40°	459.4	461.4	457.5	467.2	468.2	461.4	458.4	455.5	469.2	468.2	465.3
42.5°	376.5	377.5	372.6	380.4	382.4	375.5	374.6	370.6	383.3	381.4	380.4
45°	290.7	290.7	286.8	292.6	294.6	288.7	286.8	285.8	294.6	294.6	292.6
47.5°	210.7	207.8	202.9	211.7	212.6	208.7	207.8	204.8	213.6	213.6	211.7
50°	144.4	143.4	142.4	144.4	145.3	140.5	143.4	140.5	145.3	145.3	145.3
52.5°	96.6	95.6	93.6	95.6	95.6	92.7	92.7	91.7	95.6	95.6	93.6
55°	60.5	59.5	58.5	59.5	59.5	56.6	58.5	56.6	58.5	58.5	57.5
57.5°	37.1	35.1	35.1	34.1	34.1	32.2	33.2	33.2	33.2	33.2	33.2
60°	21.5	20.5	19.5	19.5	19.5	18.5	18.5	18.5	18.5	18.5	18.5
62.5°	13.7	13.7	12.7	12.7	12.7	12.7	12.7	11.7	12.7	12.7	12.7
65°	11.7	10.7	10.7	10.7	10.7	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	9.8	8.8	8.8	8.8	8.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	7.8	6.8	6.8	6.8	6.8	6.8	5.9	6.8	6.8	5.9	5.9
72.5°	5.9	5.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	3.9	3.9	3.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	858.3	848.6	843.7	853.5	857.4	852.5	848.6	841.8	848.6	852.5	857.4
5°	870.0	861.3	857.4	864.2	870.0	865.2	862.2	855.4	862.2	865.2	870.0
7.5°	880.8	872.0	867.1	874.0	880.8	874.0	871.0	865.2	871.0	874.0	880.8
10°	884.7	874.9	871.0	876.9	883.7	876.9	873.0	869.1	873.0	876.9	883.7
12.5°	891.5	881.8	876.9	881.8	888.6	881.8	877.9	874.9	877.9	881.8	888.6
15°	901.3	892.5	886.6	891.5	900.3	892.5	887.6	886.6	887.6	892.5	900.3
17.5°	901.3	894.4	888.6	892.5	901.3	895.4	888.6	890.5	888.6	895.4	901.3
20°	888.6	881.8	876.9	876.9	889.6	881.8	875.9	878.8	875.9	881.8	889.6
22.5°	866.1	860.3	855.4	854.4	867.1	860.3	852.5	858.3	852.5	860.3	867.1
25°	836.9	831.0	827.1	825.2	837.9	830.1	823.2	829.1	823.2	830.1	837.9
27.5°	798.8	794.0	790.1	787.1	798.8	792.0	785.2	791.0	785.2	792.0	798.8
30°	750.1	747.2	743.2	739.3	751.1	744.2	737.4	745.2	737.4	744.2	751.1
32.5°	693.5	691.6	686.7	682.8	694.5	686.7	681.8	687.7	681.8	686.7	694.5
35°	628.2	625.2	622.3	615.5	628.2	621.3	621.3	623.3	621.3	621.3	628.2
37.5°	555.0	553.0	549.1	543.3	554.0	549.1	547.2	553.0	547.2	549.1	554.0
40°	473.1	472.1	469.2	462.3	474.0	469.2	466.2	474.0	466.2	469.2	474.0
42.5°	387.2	385.3	382.4	381.4	387.2	383.3	386.3	386.3	386.3	383.3	387.2
45°	298.5	296.5	294.6	290.7	297.5	295.5	294.6	296.5	294.6	295.5	297.5
47.5°	216.5	214.6	212.6	209.7	216.5	213.6	213.6	215.6	213.6	213.6	216.5
50°	145.3	146.3	145.3	143.4	145.3	144.4	145.3	147.3	145.3	144.4	145.3
52.5°	96.6	96.6	94.6	93.6	95.6	94.6	97.5	95.6	97.5	94.6	95.6
55°	58.5	59.5	58.5	57.5	58.5	57.5	60.5	59.5	60.5	57.5	58.5
57.5°	33.2	33.2	34.1	33.2	35.1	34.1	34.1	34.1	34.1	34.1	35.1
60°	18.5	18.5	18.5	18.5	18.5	18.5	19.5	18.5	19.5	18.5	18.5
62.5°	12.7	12.7	12.7	11.7	12.7	11.7	12.7	12.7	12.7	11.7	12.7
65°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P212784

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	853.5	843.7	848.6	858.3	844.7	856.4	849.6	837.9	837.9	846.6	848.6
5°	864.2	857.4	861.3	870.0	856.4	868.1	860.3	848.6	847.6	856.4	859.3
7.5°	874.0	867.1	872.0	880.8	866.1	877.9	871.0	858.3	856.4	865.2	868.1
10°	876.9	871.0	874.9	884.7	870.0	880.8	875.9	862.2	861.3	868.1	872.0
12.5°	881.8	876.9	881.8	891.5	876.9	887.6	882.7	869.1	867.1	875.9	878.8
15°	891.5	886.6	892.5	901.3	887.6	896.4	891.5	877.9	876.9	883.7	887.6
17.5°	892.5	888.6	894.4	901.3	887.6	896.4	892.5	877.9	876.9	884.7	887.6
20°	876.9	876.9	881.8	888.6	874.0	882.7	878.8	864.2	864.2	871.0	874.0
22.5°	854.4	855.4	860.3	866.1	851.5	860.3	856.4	841.8	842.7	848.6	852.5
25°	825.2	827.1	831.0	836.9	823.2	831.0	825.2	813.5	812.5	819.3	824.2
27.5°	787.1	790.1	794.0	798.8	786.2	792.0	788.1	776.4	775.4	782.3	787.1
30°	739.3	743.2	747.2	750.1	738.4	744.2	739.3	728.6	728.6	734.5	737.4
32.5°	682.8	686.7	691.6	693.5	681.8	688.6	684.7	673.0	673.0	678.9	684.7
35°	615.5	622.3	625.2	628.2	616.4	620.3	622.3	606.7	608.6	613.5	621.3
37.5°	543.3	549.1	553.0	555.0	544.3	548.2	549.1	535.5	537.4	541.3	550.1
40°	462.3	469.2	472.1	473.1	465.3	468.2	469.2	455.5	458.4	461.4	468.2
42.5°	381.4	382.4	385.3	387.2	380.4	381.4	383.3	370.6	374.6	375.5	382.4
45°	290.7	294.6	296.5	298.5	292.6	294.6	294.6	285.8	286.8	288.7	294.6
47.5°	209.7	212.6	214.6	216.5	211.7	213.6	213.6	204.8	207.8	208.7	212.6
50°	143.4	145.3	146.3	145.3	145.3	145.3	145.3	140.5	143.4	140.5	145.3
52.5°	93.6	94.6	96.6	96.6	93.6	95.6	95.6	91.7	92.7	92.7	95.6
55°	57.5	58.5	59.5	58.5	57.5	58.5	58.5	56.6	58.5	56.6	59.5
57.5°	33.2	34.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2	32.2	34.1
60°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	19.5
62.5°	11.7	12.7	12.7	12.7	12.7	12.7	12.7	11.7	12.7	12.7	12.7
65°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.7
67.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.8
70°	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	6.8	6.8
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0
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



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	847.6	839.8	839.8	831.0	838.8	839.8	830.1	827.1	837.9	826.2	832.0
5°	855.4	847.6	847.6	838.8	844.7	844.7	834.9	830.1	840.8	829.1	834.0
7.5°	865.2	856.4	854.4	845.7	850.5	851.5	839.8	833.0	843.7	830.1	834.9
10°	868.1	858.3	857.4	848.6	852.5	853.5	839.8	834.0	842.7	828.1	831.0
12.5°	874.9	864.2	864.2	855.4	858.3	858.3	844.7	836.9	844.7	830.1	832.0
15°	882.7	871.0	871.0	862.2	864.2	865.2	848.6	840.8	847.6	832.0	834.0
17.5°	882.7	870.0	870.0	862.2	863.2	862.2	846.6	837.9	842.7	826.2	827.1
20°	869.1	856.4	858.3	849.6	850.5	849.6	833.0	824.2	829.1	811.5	813.5
22.5°	846.6	834.9	836.9	829.1	829.1	828.1	812.5	803.7	808.6	791.0	792.0
25°	818.4	806.6	808.6	800.8	801.8	801.8	786.2	776.4	781.3	765.7	765.7
27.5°	781.3	769.6	772.5	767.6	764.7	765.7	752.0	742.3	747.2	732.5	732.5
30°	733.5	723.7	726.7	722.8	719.8	719.8	708.1	698.4	703.3	690.6	689.6
32.5°	676.9	669.1	672.0	669.1	666.2	669.1	656.4	646.7	651.6	641.8	642.8
35°	615.5	607.7	609.6	606.7	604.7	606.7	594.0	587.2	592.1	582.3	586.2
37.5°	547.2	533.5	539.4	537.4	535.5	536.5	524.8	519.9	525.7	519.9	522.8
40°	467.2	457.5	461.4	459.4	457.5	462.3	453.6	446.7	451.6	447.7	453.6
42.5°	380.4	372.6	377.5	376.5	373.6	379.4	372.6	367.7	375.5	373.6	378.5
45°	292.6	286.8	290.7	290.7	289.7	294.6	287.7	288.7	296.5	299.4	305.3
47.5°	211.7	202.9	207.8	210.7	210.7	215.6	211.7	215.6	224.3	230.2	235.1
50°	144.4	142.4	143.4	144.4	146.3	150.2	149.2	155.1	160.9	170.7	176.5
52.5°	95.6	93.6	95.6	96.6	98.5	102.4	102.4	109.2	116.1	124.9	131.7
55°	59.5	58.5	59.5	60.5	62.4	66.3	67.3	74.1	81.0	89.7	95.6
57.5°	34.1	35.1	35.1	37.1	38.0	41.0	43.9	47.8	55.6	64.4	70.2
60°	19.5	19.5	20.5	21.5	22.4	25.4	27.3	31.2	37.1	45.8	49.7
62.5°	12.7	12.7	13.7	13.7	14.6	16.6	18.5	22.4	27.3	34.1	38.0
65°	10.7	10.7	10.7	11.7	11.7	13.7	15.6	18.5	22.4	27.3	31.2
67.5°	8.8	8.8	8.8	9.8	9.8	10.7	12.7	14.6	17.6	21.5	24.4
70°	6.8	6.8	6.8	7.8	7.8	8.8	9.8	10.7	13.7	16.6	18.5
72.5°	4.9	4.9	5.9	5.9	5.9	6.8	7.8	8.8	10.7	12.7	13.7
75°	3.9	3.9	3.9	3.9	4.9	4.9	5.9	6.8	7.8	8.8	9.8
77.5°	2.0	2.0	2.9	2.9	2.9	3.9	3.9	4.9	5.9	6.8	6.8
80°	2.0	2.0	2.0	2.0	2.0	2.9	2.9	2.9	3.9	4.9	4.9
82.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.9	2.9	2.9
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
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):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9	837.9
2.5°	825.2	828.1	828.1	825.2	817.4	824.2	831.0	824.2	833.0	817.4	817.4
5°	825.2	827.1	826.2	822.3	814.5	820.3	825.2	818.4	825.2	810.6	809.6
7.5°	827.1	825.2	823.2	818.4	808.6	812.5	817.4	809.6	816.4	800.8	798.8
10°	823.2	820.3	816.4	809.6	798.8	801.8	804.7	797.9	802.7	787.1	786.2
12.5°	823.2	818.4	812.5	804.7	793.0	794.9	797.9	789.1	793.0	778.4	776.4
15°	825.2	816.4	809.6	800.8	788.1	789.1	791.0	781.3	785.2	769.6	768.6
17.5°	818.4	808.6	801.8	791.0	777.4	778.4	778.4	768.6	771.5	755.9	755.0
20°	803.7	792.0	784.2	774.5	759.8	759.8	759.8	750.1	752.0	738.4	736.4
22.5°	783.2	770.6	762.8	753.0	739.3	738.4	737.4	729.6	729.6	716.9	714.0
25°	755.9	744.2	736.4	727.6	714.0	712.0	712.0	705.2	704.2	692.5	690.6
27.5°	724.7	711.1	704.2	696.4	683.7	681.8	680.8	676.9	675.0	662.3	661.3
30°	682.8	671.1	665.2	658.4	646.7	644.7	643.8	639.9	638.9	626.2	626.2
32.5°	637.9	623.3	619.4	612.5	603.8	602.8	603.8	598.9	595.0	586.2	584.3
35°	584.3	569.6	566.7	563.8	556.9	555.0	554.0	553.0	548.2	542.3	539.4
37.5°	521.8	509.2	509.2	508.2	503.3	503.3	503.3	501.4	496.5	494.5	488.7
40°	454.5	444.8	445.8	446.7	444.8	445.8	446.7	444.8	440.9	438.9	434.0
42.5°	382.4	377.5	381.4	384.3	384.3	387.2	389.2	389.2	384.3	383.3	379.4
45°	310.2	309.2	317.0	322.9	324.8	329.7	332.6	330.7	330.7	330.7	326.8
47.5°	242.9	246.8	253.6	265.3	269.2	275.1	277.0	279.9	279.0	279.9	277.0
50°	184.3	193.1	201.9	213.6	219.5	226.3	229.2	233.1	233.1	234.1	232.1
52.5°	139.5	146.3	160.9	168.7	175.6	182.4	186.3	190.2	191.2	191.2	189.2
55°	103.4	113.1	122.9	133.6	139.5	146.3	149.2	153.1	153.1	155.1	153.1
57.5°	75.1	84.9	95.6	103.4	110.2	115.1	118.0	120.9	122.9	122.9	121.9
60°	55.6	63.4	72.2	80.0	85.8	90.7	92.7	95.6	96.6	96.6	94.6
62.5°	41.9	49.7	57.5	64.4	68.3	72.2	74.1	76.1	76.1	76.1	75.1
65°	34.1	40.0	45.8	51.7	55.6	58.5	59.5	61.4	60.5	61.4	60.5
67.5°	27.3	31.2	36.1	40.0	42.9	44.9	45.8	47.8	46.8	47.8	46.8
70°	20.5	24.4	27.3	30.2	32.2	34.1	35.1	36.1	35.1	36.1	35.1
72.5°	15.6	17.6	20.5	23.4	24.4	25.4	26.3	26.3	26.3	27.3	26.3
75°	10.7	12.7	14.6	15.6	17.6	18.5	18.5	19.5	19.5	19.5	19.5
77.5°	7.8	8.8	9.8	10.7	11.7	12.7	12.7	13.7	13.7	13.7	13.7
80°	4.9	5.9	5.9	6.8	7.8	7.8	8.8	8.8	8.8	8.8	8.8
82.5°	2.9	3.9	3.9	4.9	4.9	4.9	5.9	5.9	5.9	5.9	5.9
85°	2.0	2.0	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0
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):

	345°	350°	355°	360°
0°	837.9	837.9	837.9	837.9
2.5°	825.2	820.3	828.1	816.4
5°	816.4	811.5	821.3	806.6
7.5°	805.7	800.8	809.6	794.9
10°	792.0	787.1	794.9	779.3
12.5°	780.3	775.4	784.2	769.6
15°	771.5	766.7	774.5	760.8
17.5°	757.9	752.0	760.8	746.2
20°	738.4	734.5	741.3	726.7
22.5°	715.9	712.0	719.8	705.2
25°	692.5	687.7	695.5	680.8
27.5°	662.3	658.4	666.2	651.6
30°	626.2	622.3	630.1	616.4
32.5°	585.2	581.3	587.2	575.5
35°	538.4	535.5	541.3	528.7
37.5°	487.7	484.8	490.6	477.9
40°	433.1	430.1	435.0	429.2
42.5°	379.4	376.5	381.4	376.5
45°	326.8	324.8	329.7	324.8
47.5°	278.0	276.0	280.9	276.0
50°	231.2	232.1	234.1	232.1
52.5°	189.2	189.2	192.2	189.2
55°	153.1	154.1	155.1	153.1
57.5°	121.9	121.9	122.9	121.9
60°	94.6	95.6	95.6	94.6
62.5°	75.1	75.1	75.1	75.1
65°	59.5	59.5	60.5	59.5
67.5°	46.8	45.8	46.8	45.8
70°	35.1	35.1	35.1	35.1
72.5°	27.3	27.3	26.3	26.3
75°	19.5	20.5	19.5	19.5
77.5°	13.7	13.7	13.7	13.7
80°	8.8	8.8	8.8	8.8
82.5°	5.9	5.9	5.9	5.9
85°	3.9	2.9	2.9	2.9
87.5°	2.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)