

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: P212789

Luminaire Tested: **LD6B15D010 EU6B10209027 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212789
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 EU6B10209027 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1150.9 lumens
Efficiency: N/A
Efficacy: 80.0 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

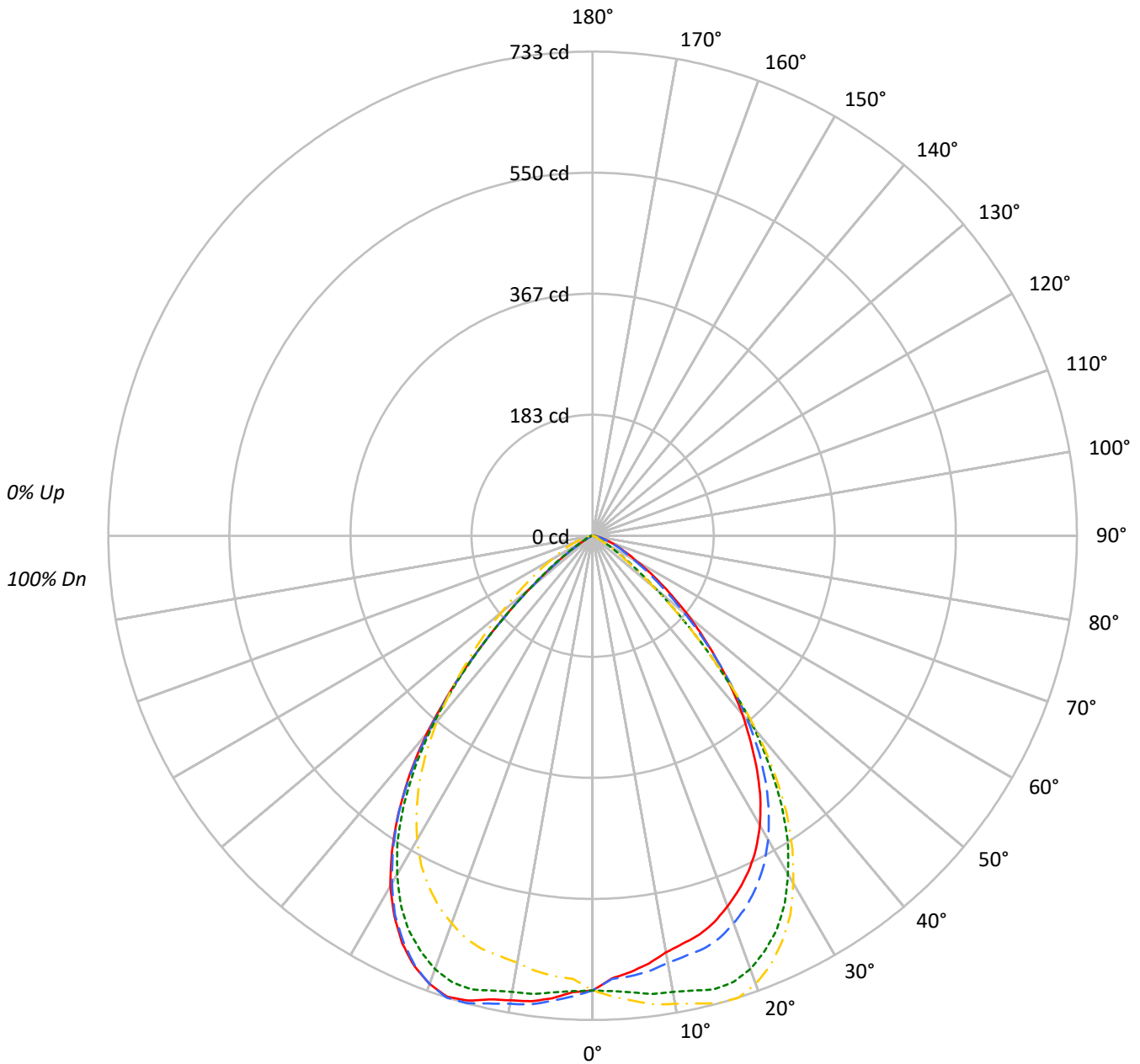
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	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	71	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°	37738	37738	37738	37738
5°	36468	38191	38675	38191
10°	35643	39033	39745	39033
15°	35477	40341	41345	40341
20°	34828	40720	42120	40720
25°	33837	39843	41204	39843
30°	32062	37436	38759	37436
35°	29071	33361	34271	33361
40°	25233	27187	27874	27187
45°	20692	18762	18886	18762
50°	16264	10524	10319	10524
55°	12023	5209	4674	5209
60°	8519	2281	1667	2281
65°	6343	1453	1038	1453
70°	4616	1154	769	1154
75°	3389	847	508	847
80°	2273	758	253	758
85°	1510	503	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	5.7
10°-20°	195.2	17.0
20°-30°	291.3	25.3
30°-40°	299.3	26.0
40°-50°	193.8	16.8
50°-60°	72.1	6.3
60°-70°	23.6	2.1
70°-80°	8.3	0.7
80°-90°	1.5	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°	552.3	48.0
0°-40°	851.6	74.0
0°-60°	1117.4	97.1
0°-90°	1150.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	688	688	688	688	688	
5°	663	694	703	694	663	63
15°	625	711	728	711	625	176
25°	559	659	681	659	559	256
35°	434	498	512	498	434	270
45°	267	242	244	242	267	206
55°	126	54	49	54	126	115
65°	49	11	8	11	49	50
75°	16	4	2	4	16	18
85°	2	1	1	1	2	3
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°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	670.8	680.4	674.0	678.0	671.6	671.6	684.4	677.2	682.8	677.2	671.6
5°	662.7	674.8	666.8	670.8	665.2	666.0	678.0	672.4	678.0	674.0	669.2
7.5°	653.1	665.2	657.9	661.9	656.3	657.9	670.8	665.2	671.6	667.6	664.3
10°	640.3	653.1	646.7	650.7	645.9	646.7	659.5	655.5	661.1	658.7	656.3
12.5°	632.3	644.3	637.1	641.1	637.9	639.5	651.5	648.3	655.5	653.1	651.5
15°	625.1	636.3	629.9	633.9	631.5	632.3	645.1	641.9	649.9	648.3	647.5
17.5°	613.1	625.1	617.9	622.7	620.3	621.1	633.9	631.5	639.5	639.5	638.7
20°	597.0	609.1	603.4	606.6	605.0	606.6	617.9	616.3	624.3	624.3	624.3
22.5°	579.4	591.4	585.0	588.2	586.6	589.0	599.4	599.4	605.8	606.6	607.5
25°	559.4	571.4	565.0	569.0	567.4	569.0	578.6	579.4	585.0	585.0	586.6
27.5°	535.3	547.3	540.9	544.1	543.3	544.1	554.6	556.2	559.4	560.2	561.8
30°	506.5	517.7	511.3	514.5	514.5	514.5	524.9	525.7	528.9	529.7	531.3
32.5°	472.8	482.4	477.6	480.8	480.0	481.6	488.8	492.1	496.1	495.3	496.1
35°	434.4	444.8	440.0	442.4	443.2	445.6	450.4	454.4	455.2	456.0	457.6
37.5°	392.7	403.1	398.3	400.7	401.5	406.3	407.9	411.9	413.5	413.5	413.5
40°	352.6	357.4	353.4	355.8	356.6	360.6	362.2	365.4	367.0	366.2	365.4
42.5°	309.3	313.3	309.3	311.7	311.7	314.9	315.7	319.8	319.8	318.2	315.7
45°	266.9	270.9	266.9	268.5	268.5	271.7	271.7	271.7	273.3	270.9	266.9
47.5°	226.8	230.8	226.8	228.4	227.6	230.0	229.2	230.0	227.6	226.0	221.2
50°	190.7	192.3	190.7	189.9	190.7	192.3	191.5	191.5	188.3	185.9	180.3
52.5°	155.5	157.9	155.5	155.5	155.5	157.1	157.1	156.3	153.1	149.9	144.2
55°	125.8	127.4	126.6	125.8	125.8	127.4	125.8	125.8	122.6	120.2	114.6
57.5°	100.2	101.0	100.2	100.2	100.2	101.0	101.0	99.4	97.0	94.6	90.6
60°	77.7	78.5	78.5	77.7	77.7	79.3	79.3	78.5	76.1	74.5	70.5
62.5°	61.7	61.7	61.7	61.7	61.7	62.5	62.5	62.5	60.9	59.3	56.1
65°	48.9	49.7	48.9	48.9	49.7	50.5	49.7	50.5	48.9	48.1	45.7
67.5°	37.7	38.5	37.7	38.5	38.5	39.3	38.5	39.3	37.7	36.9	35.3
70°	28.8	28.8	28.8	28.8	28.8	29.7	28.8	29.7	28.8	28.0	26.4
72.5°	21.6	21.6	22.4	22.4	21.6	22.4	21.6	21.6	21.6	20.8	20.0
75°	16.0	16.0	16.8	16.0	16.0	16.0	16.0	16.0	15.2	15.2	14.4
77.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	10.4	10.4	9.6
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.4	6.4
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.0	4.0
85°	2.4	2.4	2.4	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.8	0.8	0.8	1.6	0.8	0.8	1.6	1.6	0.8	0.8	0.8
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°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	678.0	680.4	680.4	678.0	683.6	678.8	688.4	679.6	682.0	690.0	689.2
5°	675.6	678.8	679.6	678.0	685.2	681.2	690.8	682.0	686.0	694.0	694.0
7.5°	672.4	676.4	678.0	679.6	686.0	682.0	693.2	684.4	690.0	699.6	698.8
10°	665.2	670.8	674.0	676.4	682.8	680.4	692.4	685.2	690.0	701.2	700.4
12.5°	661.1	667.6	672.4	676.4	683.6	682.0	694.0	687.6	694.0	705.2	705.2
15°	657.9	665.2	670.8	678.0	685.2	683.6	696.4	690.8	697.2	710.8	710.0
17.5°	649.9	658.7	664.3	672.4	679.6	678.8	692.4	688.4	695.6	708.4	709.2
20°	636.3	644.3	650.7	660.3	668.4	666.8	681.2	677.2	684.4	698.0	698.8
22.5°	618.7	626.7	633.1	643.5	650.7	649.9	664.3	660.3	667.6	680.4	681.2
25°	597.8	605.0	611.5	621.1	629.1	629.1	641.9	637.9	645.9	658.7	658.7
27.5°	572.2	578.6	584.2	595.4	601.8	601.8	613.9	609.9	617.9	629.1	628.3
30°	540.9	546.5	551.4	561.0	566.6	567.4	577.8	573.8	581.8	591.4	591.4
32.5°	503.3	508.9	512.1	524.1	528.1	527.3	535.3	531.3	539.3	549.8	547.3
35°	463.2	465.6	468.0	480.0	481.6	478.4	486.4	482.4	488.0	498.5	496.9
37.5°	417.5	418.3	418.3	428.7	429.5	427.1	431.9	427.1	431.1	440.8	440.0
40°	367.0	366.2	365.4	373.4	372.6	367.8	371.0	367.0	372.6	379.9	375.9
42.5°	315.7	313.3	310.1	314.1	310.9	306.9	308.5	302.1	306.1	311.7	306.9
45°	265.3	260.5	254.0	254.8	250.8	246.0	243.6	237.2	236.4	242.0	238.0
47.5°	218.0	208.4	202.8	199.5	193.1	189.1	184.3	177.1	173.9	177.1	173.1
50°	175.5	165.9	158.7	151.5	145.1	140.2	132.2	127.4	122.6	123.4	120.2
52.5°	138.6	132.2	120.2	114.6	108.2	102.6	95.4	89.8	84.1	84.1	80.9
55°	109.8	101.0	93.0	84.9	78.5	73.7	66.5	60.9	55.3	54.5	51.3
57.5°	84.9	78.5	69.7	61.7	57.7	52.9	45.7	39.3	36.1	33.7	31.3
60°	65.7	59.3	52.1	45.7	40.9	37.7	30.5	25.6	22.4	20.8	18.4
62.5°	52.9	47.3	40.9	34.5	31.3	28.0	22.4	18.4	15.2	13.6	12.0
65°	42.5	37.7	32.9	28.0	25.6	22.4	18.4	15.2	12.8	11.2	9.6
67.5°	32.9	29.7	25.6	22.4	20.0	17.6	14.4	12.0	10.4	8.8	8.0
70°	24.8	22.4	20.0	16.8	15.2	13.6	11.2	8.8	8.0	7.2	6.4
72.5°	19.2	16.8	14.4	12.8	11.2	10.4	8.8	7.2	6.4	5.6	4.8
75°	12.8	12.0	10.4	8.8	8.0	7.2	6.4	5.6	4.8	4.0	4.0
77.5°	8.8	8.0	7.2	6.4	5.6	5.6	4.8	4.0	3.2	3.2	2.4
80°	5.6	4.8	4.8	4.0	4.0	4.0	3.2	2.4	2.4	2.4	1.6
82.5°	4.0	3.2	3.2	2.4	2.4	2.4	2.4	1.6	1.6	1.6	0.8
85°	2.4	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	682.8	690.0	690.0	696.4	697.2	695.6	688.4	688.4	698.0	703.6	694.0
5°	689.2	696.4	696.4	702.8	706.0	703.6	696.4	697.2	706.8	713.2	703.6
7.5°	694.8	702.0	703.6	710.8	713.2	710.8	703.6	705.2	715.6	721.2	711.6
10°	697.2	704.4	705.2	713.2	716.4	713.2	707.6	708.4	719.6	723.7	714.8
12.5°	702.8	710.0	710.0	718.8	722.0	719.6	712.4	714.0	725.3	729.3	720.4
15°	708.4	715.6	715.6	725.3	729.3	726.1	720.4	721.2	732.5	736.5	729.3
17.5°	708.4	714.8	714.8	725.3	729.3	726.9	720.4	721.2	733.3	736.5	729.3
20°	698.0	705.2	703.6	714.0	718.0	715.6	710.0	710.0	722.0	725.3	718.0
22.5°	681.2	687.6	686.0	695.6	700.4	697.2	692.4	691.6	703.6	706.8	699.6
25°	657.9	664.3	662.7	672.4	677.2	673.2	667.6	668.4	678.0	682.8	676.4
27.5°	630.7	634.7	632.3	641.9	646.7	642.7	637.1	637.9	647.5	650.7	645.9
30°	593.8	597.0	594.6	602.6	605.8	603.4	598.6	598.6	607.5	611.5	606.6
32.5°	549.8	552.2	549.8	556.2	562.6	557.8	553.0	553.0	562.6	565.8	560.2
35°	498.5	500.9	499.3	505.7	510.5	504.1	500.1	498.5	511.3	509.7	506.5
37.5°	441.6	443.2	438.4	449.6	452.0	444.8	441.6	440.0	451.2	450.4	447.2
40°	377.5	379.1	375.9	383.9	384.7	379.1	376.7	374.2	385.5	384.7	382.3
42.5°	309.3	310.1	306.1	312.5	314.1	308.5	307.7	304.5	314.9	313.3	312.5
45°	238.8	238.8	235.6	240.4	242.0	237.2	235.6	234.8	242.0	242.0	240.4
47.5°	173.1	170.7	166.7	173.9	174.7	171.5	170.7	168.3	175.5	175.5	173.9
50°	118.6	117.8	117.0	118.6	119.4	115.4	117.8	115.4	119.4	119.4	119.4
52.5°	79.3	78.5	76.9	78.5	78.5	76.1	76.1	75.3	78.5	78.5	76.9
55°	49.7	48.9	48.1	48.9	48.9	46.5	48.1	46.5	48.1	48.1	47.3
57.5°	30.5	28.8	28.8	28.0	28.0	26.4	27.2	27.2	27.2	27.2	27.2
60°	17.6	16.8	16.0	16.0	16.0	15.2	15.2	15.2	15.2	15.2	15.2
62.5°	11.2	11.2	10.4	10.4	10.4	10.4	10.4	9.6	10.4	10.4	10.4
65°	9.6	8.8	8.8	8.8	8.8	8.0	8.0	8.0	8.0	8.0	8.0
67.5°	8.0	7.2	7.2	7.2	7.2	6.4	6.4	6.4	6.4	6.4	6.4
70°	6.4	5.6	5.6	5.6	5.6	5.6	4.8	5.6	5.6	4.8	4.8
72.5°	4.8	4.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	2.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.0	0.8	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°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	705.2	697.2	693.2	701.2	704.4	700.4	697.2	691.6	697.2	700.4	704.4
5°	714.8	707.6	704.4	710.0	714.8	710.8	708.4	702.8	708.4	710.8	714.8
7.5°	723.7	716.4	712.4	718.0	723.7	718.0	715.6	710.8	715.6	718.0	723.7
10°	726.9	718.8	715.6	720.4	726.1	720.4	717.2	714.0	717.2	720.4	726.1
12.5°	732.5	724.5	720.4	724.5	730.1	724.5	721.2	718.8	721.2	724.5	730.1
15°	740.5	733.3	728.5	732.5	739.7	733.3	729.3	728.5	729.3	733.3	739.7
17.5°	740.5	734.9	730.1	733.3	740.5	735.7	730.1	731.7	730.1	735.7	740.5
20°	730.1	724.5	720.4	720.4	730.9	724.5	719.6	722.0	719.6	724.5	730.9
22.5°	711.6	706.8	702.8	702.0	712.4	706.8	700.4	705.2	700.4	706.8	712.4
25°	687.6	682.8	679.6	678.0	688.4	682.0	676.4	681.2	676.4	682.0	688.4
27.5°	656.3	652.3	649.1	646.7	656.3	650.7	645.1	649.9	645.1	650.7	656.3
30°	616.3	613.9	610.7	607.5	617.1	611.5	605.8	612.3	605.8	611.5	617.1
32.5°	569.8	568.2	564.2	561.0	570.6	564.2	560.2	565.0	560.2	564.2	570.6
35°	516.1	513.7	511.3	505.7	516.1	510.5	510.5	512.1	510.5	510.5	516.1
37.5°	456.0	454.4	451.2	446.4	455.2	451.2	449.6	454.4	449.6	451.2	455.2
40°	388.7	387.9	385.5	379.9	389.5	385.5	383.1	389.5	383.1	385.5	389.5
42.5°	318.2	316.5	314.1	313.3	318.2	314.9	317.3	317.3	317.3	314.9	318.2
45°	245.2	243.6	242.0	238.8	244.4	242.8	242.0	243.6	242.0	242.8	244.4
47.5°	177.9	176.3	174.7	172.3	177.9	175.5	175.5	177.1	175.5	175.5	177.9
50°	119.4	120.2	119.4	117.8	119.4	118.6	119.4	121.0	119.4	118.6	119.4
52.5°	79.3	79.3	77.7	76.9	78.5	77.7	80.1	78.5	80.1	77.7	78.5
55°	48.1	48.9	48.1	47.3	48.1	47.3	49.7	48.9	49.7	47.3	48.1
57.5°	27.2	27.2	28.0	27.2	28.8	28.0	28.0	28.0	28.0	28.0	28.8
60°	15.2	15.2	15.2	15.2	15.2	15.2	16.0	15.2	16.0	15.2	15.2
62.5°	10.4	10.4	10.4	9.6	10.4	9.6	10.4	10.4	10.4	9.6	10.4
65°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
67.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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



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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	701.2	693.2	697.2	705.2	694.0	703.6	698.0	688.4	688.4	695.6	697.2
5°	710.0	704.4	707.6	714.8	703.6	713.2	706.8	697.2	696.4	703.6	706.0
7.5°	718.0	712.4	716.4	723.7	711.6	721.2	715.6	705.2	703.6	710.8	713.2
10°	720.4	715.6	718.8	726.9	714.8	723.7	719.6	708.4	707.6	713.2	716.4
12.5°	724.5	720.4	724.5	732.5	720.4	729.3	725.3	714.0	712.4	719.6	722.0
15°	732.5	728.5	733.3	740.5	729.3	736.5	732.5	721.2	720.4	726.1	729.3
17.5°	733.3	730.1	734.9	740.5	729.3	736.5	733.3	721.2	720.4	726.9	729.3
20°	720.4	720.4	724.5	730.1	718.0	725.3	722.0	710.0	710.0	715.6	718.0
22.5°	702.0	702.8	706.8	711.6	699.6	706.8	703.6	691.6	692.4	697.2	700.4
25°	678.0	679.6	682.8	687.6	676.4	682.8	678.0	668.4	667.6	673.2	677.2
27.5°	646.7	649.1	652.3	656.3	645.9	650.7	647.5	637.9	637.1	642.7	646.7
30°	607.5	610.7	613.9	616.3	606.6	611.5	607.5	598.6	598.6	603.4	605.8
32.5°	561.0	564.2	568.2	569.8	560.2	565.8	562.6	553.0	553.0	557.8	562.6
35°	505.7	511.3	513.7	516.1	506.5	509.7	511.3	498.5	500.1	504.1	510.5
37.5°	446.4	451.2	454.4	456.0	447.2	450.4	451.2	440.0	441.6	444.8	452.0
40°	379.9	385.5	387.9	388.7	382.3	384.7	385.5	374.2	376.7	379.1	384.7
42.5°	313.3	314.1	316.5	318.2	312.5	313.3	314.9	304.5	307.7	308.5	314.1
45°	238.8	242.0	243.6	245.2	240.4	242.0	242.0	234.8	235.6	237.2	242.0
47.5°	172.3	174.7	176.3	177.9	173.9	175.5	175.5	168.3	170.7	171.5	174.7
50°	117.8	119.4	120.2	119.4	119.4	119.4	119.4	115.4	117.8	115.4	119.4
52.5°	76.9	77.7	79.3	79.3	76.9	78.5	78.5	75.3	76.1	76.1	78.5
55°	47.3	48.1	48.9	48.1	47.3	48.1	48.1	46.5	48.1	46.5	48.9
57.5°	27.2	28.0	27.2	27.2	27.2	27.2	27.2	27.2	27.2	26.4	28.0
60°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	16.0
62.5°	9.6	10.4	10.4	10.4	10.4	10.4	10.4	9.6	10.4	10.4	10.4
65°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.8
67.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.2
70°	4.8	4.8	4.8	4.8	4.8	4.8	5.6	5.6	4.8	5.6	5.6
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.0	0.8
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°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	696.4	690.0	690.0	682.8	689.2	690.0	682.0	679.6	688.4	678.8	683.6
5°	702.8	696.4	696.4	689.2	694.0	694.0	686.0	682.0	690.8	681.2	685.2
7.5°	710.8	703.6	702.0	694.8	698.8	699.6	690.0	684.4	693.2	682.0	686.0
10°	713.2	705.2	704.4	697.2	700.4	701.2	690.0	685.2	692.4	680.4	682.8
12.5°	718.8	710.0	710.0	702.8	705.2	705.2	694.0	687.6	694.0	682.0	683.6
15°	725.3	715.6	715.6	708.4	710.0	710.8	697.2	690.8	696.4	683.6	685.2
17.5°	725.3	714.8	714.8	708.4	709.2	708.4	695.6	688.4	692.4	678.8	679.6
20°	714.0	703.6	705.2	698.0	698.8	698.0	684.4	677.2	681.2	666.8	668.4
22.5°	695.6	686.0	687.6	681.2	681.2	680.4	667.6	660.3	664.3	649.9	650.7
25°	672.4	662.7	664.3	657.9	658.7	658.7	645.9	637.9	641.9	629.1	629.1
27.5°	641.9	632.3	634.7	630.7	628.3	629.1	617.9	609.9	613.9	601.8	601.8
30°	602.6	594.6	597.0	593.8	591.4	591.4	581.8	573.8	577.8	567.4	566.6
32.5°	556.2	549.8	552.2	549.8	547.3	549.8	539.3	531.3	535.3	527.3	528.1
35°	505.7	499.3	500.9	498.5	496.9	498.5	488.0	482.4	486.4	478.4	481.6
37.5°	449.6	438.4	443.2	441.6	440.0	440.8	431.1	427.1	431.9	427.1	429.5
40°	383.9	375.9	379.1	377.5	375.9	379.9	372.6	367.0	371.0	367.8	372.6
42.5°	312.5	306.1	310.1	309.3	306.9	311.7	306.1	302.1	308.5	306.9	310.9
45°	240.4	235.6	238.8	238.8	238.0	242.0	236.4	237.2	243.6	246.0	250.8
47.5°	173.9	166.7	170.7	173.1	173.1	177.1	173.9	177.1	184.3	189.1	193.1
50°	118.6	117.0	117.8	118.6	120.2	123.4	122.6	127.4	132.2	140.2	145.1
52.5°	78.5	76.9	78.5	79.3	80.9	84.1	84.1	89.8	95.4	102.6	108.2
55°	48.9	48.1	48.9	49.7	51.3	54.5	55.3	60.9	66.5	73.7	78.5
57.5°	28.0	28.8	28.8	30.5	31.3	33.7	36.1	39.3	45.7	52.9	57.7
60°	16.0	16.0	16.8	17.6	18.4	20.8	22.4	25.6	30.5	37.7	40.9
62.5°	10.4	10.4	11.2	11.2	12.0	13.6	15.2	18.4	22.4	28.0	31.3
65°	8.8	8.8	8.8	9.6	9.6	11.2	12.8	15.2	18.4	22.4	25.6
67.5°	7.2	7.2	7.2	8.0	8.0	8.8	10.4	12.0	14.4	17.6	20.0
70°	5.6	5.6	5.6	6.4	6.4	7.2	8.0	8.8	11.2	13.6	15.2
72.5°	4.0	4.0	4.8	4.8	4.8	5.6	6.4	7.2	8.8	10.4	11.2
75°	3.2	3.2	3.2	3.2	4.0	4.0	4.8	5.6	6.4	7.2	8.0
77.5°	1.6	1.6	2.4	2.4	2.4	3.2	3.2	4.0	4.8	5.6	5.6
80°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	4.0	4.0
82.5°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	2.4	2.4
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	678.0	680.4	680.4	678.0	671.6	677.2	682.8	677.2	684.4	671.6	671.6
5°	678.0	679.6	678.8	675.6	669.2	674.0	678.0	672.4	678.0	666.0	665.2
7.5°	679.6	678.0	676.4	672.4	664.3	667.6	671.6	665.2	670.8	657.9	656.3
10°	676.4	674.0	670.8	665.2	656.3	658.7	661.1	655.5	659.5	646.7	645.9
12.5°	676.4	672.4	667.6	661.1	651.5	653.1	655.5	648.3	651.5	639.5	637.9
15°	678.0	670.8	665.2	657.9	647.5	648.3	649.9	641.9	645.1	632.3	631.5
17.5°	672.4	664.3	658.7	649.9	638.7	639.5	639.5	631.5	633.9	621.1	620.3
20°	660.3	650.7	644.3	636.3	624.3	624.3	624.3	616.3	617.9	606.6	605.0
22.5°	643.5	633.1	626.7	618.7	607.5	606.6	605.8	599.4	599.4	589.0	586.6
25°	621.1	611.5	605.0	597.8	586.6	585.0	585.0	579.4	578.6	569.0	567.4
27.5°	595.4	584.2	578.6	572.2	561.8	560.2	559.4	556.2	554.6	544.1	543.3
30°	561.0	551.4	546.5	540.9	531.3	529.7	528.9	525.7	524.9	514.5	514.5
32.5°	524.1	512.1	508.9	503.3	496.1	495.3	496.1	492.1	488.8	481.6	480.0
35°	480.0	468.0	465.6	463.2	457.6	456.0	455.2	454.4	450.4	445.6	443.2
37.5°	428.7	418.3	418.3	417.5	413.5	413.5	413.5	411.9	407.9	406.3	401.5
40°	373.4	365.4	366.2	367.0	365.4	366.2	367.0	365.4	362.2	360.6	356.6
42.5°	314.1	310.1	313.3	315.7	315.7	318.2	319.8	319.8	315.7	314.9	311.7
45°	254.8	254.0	260.5	265.3	266.9	270.9	273.3	271.7	271.7	271.7	268.5
47.5°	199.5	202.8	208.4	218.0	221.2	226.0	227.6	230.0	229.2	230.0	227.6
50°	151.5	158.7	165.9	175.5	180.3	185.9	188.3	191.5	191.5	192.3	190.7
52.5°	114.6	120.2	132.2	138.6	144.2	149.9	153.1	156.3	157.1	157.1	155.5
55°	84.9	93.0	101.0	109.8	114.6	120.2	122.6	125.8	125.8	127.4	125.8
57.5°	61.7	69.7	78.5	84.9	90.6	94.6	97.0	99.4	101.0	101.0	100.2
60°	45.7	52.1	59.3	65.7	70.5	74.5	76.1	78.5	79.3	79.3	77.7
62.5°	34.5	40.9	47.3	52.9	56.1	59.3	60.9	62.5	62.5	62.5	61.7
65°	28.0	32.9	37.7	42.5	45.7	48.1	48.9	50.5	49.7	50.5	49.7
67.5°	22.4	25.6	29.7	32.9	35.3	36.9	37.7	39.3	38.5	39.3	38.5
70°	16.8	20.0	22.4	24.8	26.4	28.0	28.8	29.7	28.8	29.7	28.8
72.5°	12.8	14.4	16.8	19.2	20.0	20.8	21.6	21.6	21.6	22.4	21.6
75°	8.8	10.4	12.0	12.8	14.4	15.2	15.2	16.0	16.0	16.0	16.0
77.5°	6.4	7.2	8.0	8.8	9.6	10.4	10.4	11.2	11.2	11.2	11.2
80°	4.0	4.8	4.8	5.6	6.4	6.4	7.2	7.2	7.2	7.2	7.2
82.5°	2.4	3.2	3.2	4.0	4.0	4.0	4.8	4.8	4.8	4.8	4.8
85°	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	0.8	0.8
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):

	345°	350°	355°	360°
0°	688.4	688.4	688.4	688.4
2.5°	678.0	674.0	680.4	670.8
5°	670.8	666.8	674.8	662.7
7.5°	661.9	657.9	665.2	653.1
10°	650.7	646.7	653.1	640.3
12.5°	641.1	637.1	644.3	632.3
15°	633.9	629.9	636.3	625.1
17.5°	622.7	617.9	625.1	613.1
20°	606.6	603.4	609.1	597.0
22.5°	588.2	585.0	591.4	579.4
25°	569.0	565.0	571.4	559.4
27.5°	544.1	540.9	547.3	535.3
30°	514.5	511.3	517.7	506.5
32.5°	480.8	477.6	482.4	472.8
35°	442.4	440.0	444.8	434.4
37.5°	400.7	398.3	403.1	392.7
40°	355.8	353.4	357.4	352.6
42.5°	311.7	309.3	313.3	309.3
45°	268.5	266.9	270.9	266.9
47.5°	228.4	226.8	230.8	226.8
50°	189.9	190.7	192.3	190.7
52.5°	155.5	155.5	157.9	155.5
55°	125.8	126.6	127.4	125.8
57.5°	100.2	100.2	101.0	100.2
60°	77.7	78.5	78.5	77.7
62.5°	61.7	61.7	61.7	61.7
65°	48.9	48.9	49.7	48.9
67.5°	38.5	37.7	38.5	37.7
70°	28.8	28.8	28.8	28.8
72.5°	22.4	22.4	21.6	21.6
75°	16.0	16.8	16.0	16.0
77.5°	11.2	11.2	11.2	11.2
80°	7.2	7.2	7.2	7.2
82.5°	4.8	4.8	4.8	4.8
85°	3.2	2.4	2.4	2.4
87.5°	1.6	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0



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





















(END OF REPORT)