

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: P212793

Luminaire Tested: **LD6B15D010 EU6B10209050 6LBSWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212793  
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 EU6B10209050 6LBSWLI1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1220.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

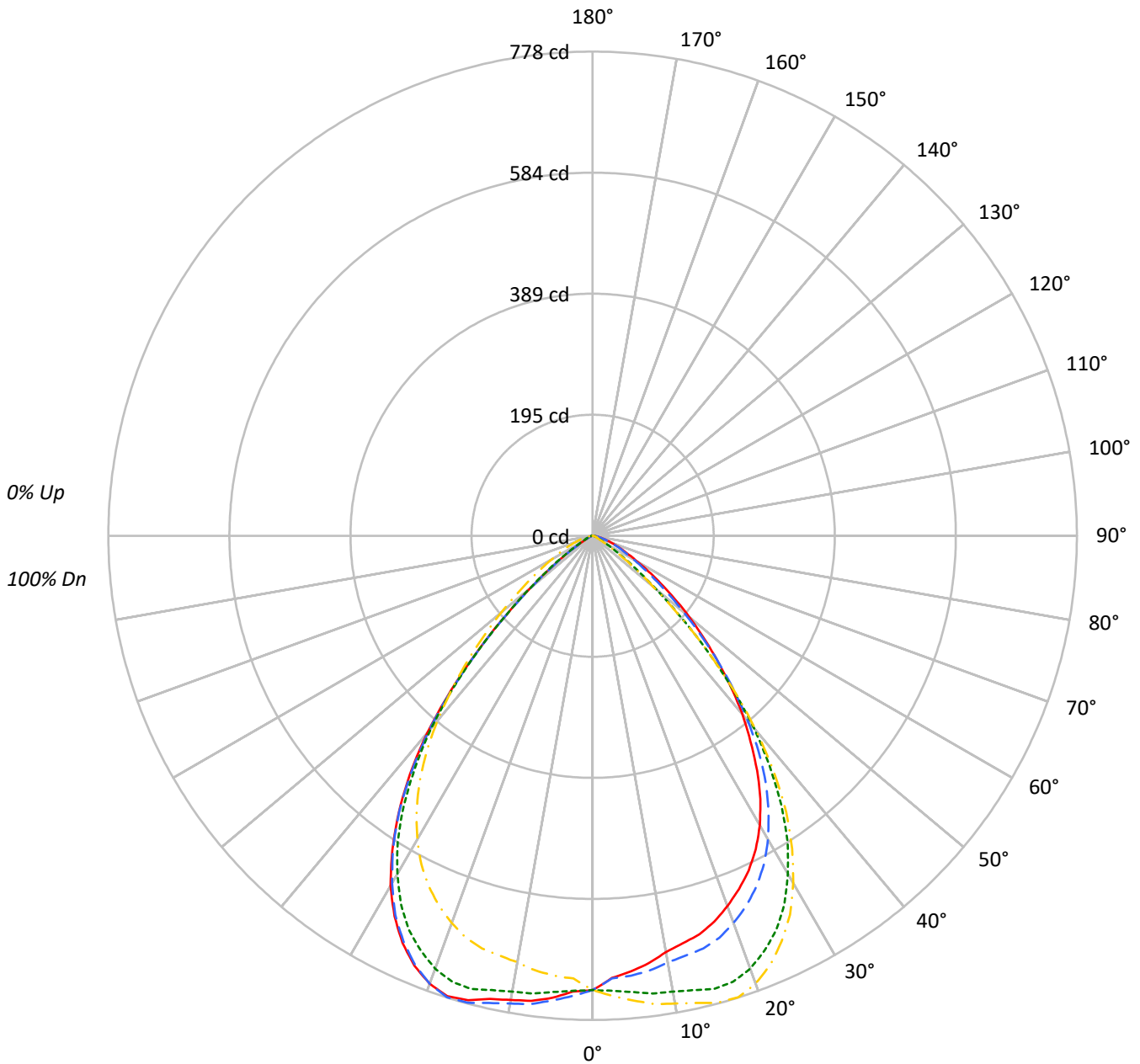
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	40019	40019	40019	40019
5°	38675	40496	41014	40496
10°	37797	41393	42150	41393
15°	37622	42781	43842	42781
20°	36934	43182	44670	43182
25°	35881	42250	43690	42250
30°	33999	39702	41101	39702
35°	30825	35376	36339	35376
40°	26757	28825	29555	28825
45°	21940	19894	20025	19894
50°	17253	11164	10942	11164
55°	12750	5524	4951	5524
60°	9034	2423	1765	2423
65°	6719	1544	1103	1544
70°	4905	1218	817	1218
75°	3601	890	530	890
80°	2399	789	253	789
85°	1572	503	503	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	5.7
10°-20°	207.0	17.0
20°-30°	308.9	25.3
30°-40°	317.3	26.0
40°-50°	205.5	16.8
50°-60°	76.4	6.3
60°-70°	25.1	2.1
70°-80°	8.8	0.7
80°-90°	1.6	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°	585.7	48.0
0°-40°	903.1	74.0
0°-60°	1185.0	97.1
0°-90°	1220.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	730	730	730	730	730	
5°	703	736	745	736	703	66
15°	663	754	772	754	663	186
25°	593	698	722	698	593	272
35°	461	529	543	529	461	286
45°	283	257	258	257	283	219
55°	133	58	52	58	133	122
65°	52	12	8	12	52	53
75°	17	4	2	4	17	19
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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	711.3	721.5	714.7	718.9	712.1	712.1	725.7	718.1	724.0	718.1	712.1
5°	702.8	715.5	707.0	711.3	705.3	706.2	718.9	713.0	718.9	714.7	709.6
7.5°	692.6	705.3	697.7	701.9	696.0	697.7	711.3	705.3	712.1	707.9	704.5
10°	679.0	692.6	685.8	690.0	684.9	685.8	699.4	695.1	701.1	698.5	696.0
12.5°	670.5	683.2	675.6	679.8	676.4	678.1	690.9	687.5	695.1	692.6	690.9
15°	662.9	674.7	668.0	672.2	669.7	670.5	684.1	680.7	689.2	687.5	686.6
17.5°	650.1	662.9	655.2	660.3	657.8	658.6	672.2	669.7	678.1	678.1	677.3
20°	633.1	645.9	639.9	643.3	641.6	643.3	655.2	653.5	662.0	662.0	662.0
22.5°	614.4	627.2	620.4	623.8	622.1	624.6	635.7	635.7	642.5	643.3	644.2
25°	593.2	605.9	599.1	603.4	601.7	603.4	613.6	614.4	620.4	620.4	622.1
27.5°	567.7	580.4	573.6	577.0	576.2	577.0	588.1	589.8	593.2	594.0	595.7
30°	537.1	549.0	542.2	545.6	545.6	545.6	556.6	557.5	560.9	561.7	563.4
32.5°	501.4	511.6	506.5	509.9	509.0	510.7	518.4	521.8	526.0	525.2	526.0
35°	460.6	471.6	466.5	469.1	469.9	472.5	477.6	481.8	482.7	483.5	485.2
37.5°	416.4	427.5	422.4	424.9	425.8	430.9	432.6	436.8	438.5	438.5	438.5
40°	373.9	379.0	374.8	377.3	378.2	382.4	384.1	387.5	389.2	388.4	387.5
42.5°	328.0	332.3	328.0	330.6	330.6	334.0	334.8	339.1	339.1	337.4	334.8
45°	283.0	287.2	283.0	284.7	284.7	288.1	288.1	288.1	289.8	287.2	283.0
47.5°	240.5	244.7	240.5	242.2	241.3	243.9	243.0	243.9	241.3	239.6	234.5
50°	202.3	204.0	202.3	201.4	202.3	204.0	203.1	203.1	199.7	197.2	191.2
52.5°	164.9	167.4	164.9	164.9	164.9	166.6	166.6	165.7	162.3	158.9	153.0
55°	133.4	135.1	134.3	133.4	133.4	135.1	133.4	133.4	130.0	127.5	121.5
57.5°	106.2	107.1	106.2	106.2	106.2	107.1	107.1	105.4	102.8	100.3	96.0
60°	82.4	83.3	83.3	82.4	82.4	84.1	84.1	83.3	80.7	79.0	74.8
62.5°	65.4	65.4	65.4	65.4	65.4	66.3	66.3	66.3	64.6	62.9	59.5
65°	51.8	52.7	51.8	51.8	52.7	53.5	52.7	53.5	51.8	51.0	48.4
67.5°	39.9	40.8	39.9	40.8	40.8	41.6	40.8	41.6	39.9	39.1	37.4
70°	30.6	30.6	30.6	30.6	30.6	31.4	30.6	31.4	30.6	29.7	28.0
72.5°	22.9	22.9	23.8	23.8	22.9	23.8	22.9	22.9	22.9	22.1	21.2
75°	17.0	17.0	17.8	17.0	17.0	17.0	17.0	17.0	16.1	16.1	15.3
77.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.0	11.0	10.2
80°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.8	6.8
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.2	4.2
85°	2.5	2.5	2.5	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.8	0.8	0.8	1.7	0.8	0.8	1.7	1.7	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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	718.9	721.5	721.5	718.9	724.9	719.8	730.0	720.6	723.2	731.7	730.8
5°	716.4	719.8	720.6	718.9	726.6	722.3	732.5	723.2	727.4	735.9	735.9
7.5°	713.0	717.2	718.9	720.6	727.4	723.2	735.1	725.7	731.7	741.9	741.0
10°	705.3	711.3	714.7	717.2	724.0	721.5	734.2	726.6	731.7	743.6	742.7
12.5°	701.1	707.9	713.0	717.2	724.9	723.2	735.9	729.1	735.9	747.8	747.8
15°	697.7	705.3	711.3	718.9	726.6	724.9	738.5	732.5	739.3	753.8	752.9
17.5°	689.2	698.5	704.5	713.0	720.6	719.8	734.2	730.0	737.6	751.2	752.1
20°	674.7	683.2	690.0	700.2	708.7	707.0	722.3	718.1	725.7	740.2	741.0
22.5°	656.1	664.6	671.3	682.4	690.0	689.2	704.5	700.2	707.9	721.5	722.3
25°	634.0	641.6	648.4	658.6	667.1	667.1	680.7	676.4	684.9	698.5	698.5
27.5°	606.8	613.6	619.5	631.4	638.2	638.2	651.0	646.7	655.2	667.1	666.3
30°	573.6	579.6	584.7	594.9	600.8	601.7	612.7	608.5	617.0	627.2	627.2
32.5°	533.7	539.6	543.0	555.8	560.0	559.2	567.7	563.4	571.9	583.0	580.4
35°	491.2	493.7	496.3	509.0	510.7	507.3	515.8	511.6	517.5	528.6	526.9
37.5°	442.8	443.6	443.6	454.6	455.5	452.9	458.0	452.9	457.2	467.4	466.5
40°	389.2	388.4	387.5	396.0	395.2	390.1	393.5	389.2	395.2	402.8	398.6
42.5°	334.8	332.3	328.9	333.1	329.7	325.5	327.2	320.4	324.6	330.6	325.5
45°	281.3	276.2	269.4	270.2	266.0	260.9	258.3	251.5	250.7	256.6	252.4
47.5°	231.1	221.0	215.0	211.6	204.8	200.6	195.5	187.8	184.4	187.8	183.6
50°	186.1	175.9	168.3	160.6	153.8	148.7	140.2	135.1	130.0	130.9	127.5
52.5°	147.0	140.2	127.5	121.5	114.7	108.8	101.1	95.2	89.2	89.2	85.8
55°	116.4	107.1	98.6	90.1	83.3	78.2	70.5	64.6	58.6	57.8	54.4
57.5°	90.1	83.3	73.9	65.4	61.2	56.1	48.4	41.6	38.2	35.7	33.1
60°	69.7	62.9	55.2	48.4	43.3	39.9	32.3	27.2	23.8	22.1	19.5
62.5°	56.1	50.1	43.3	36.5	33.1	29.7	23.8	19.5	16.1	14.4	12.7
65°	45.0	39.9	34.8	29.7	27.2	23.8	19.5	16.1	13.6	11.9	10.2
67.5°	34.8	31.4	27.2	23.8	21.2	18.7	15.3	12.7	11.0	9.3	8.5
70°	26.3	23.8	21.2	17.8	16.1	14.4	11.9	9.3	8.5	7.6	6.8
72.5°	20.4	17.8	15.3	13.6	11.9	11.0	9.3	7.6	6.8	5.9	5.1
75°	13.6	12.7	11.0	9.3	8.5	7.6	6.8	5.9	5.1	4.2	4.2
77.5°	9.3	8.5	7.6	6.8	5.9	5.9	5.1	4.2	3.4	3.4	2.5
80°	5.9	5.1	5.1	4.2	4.2	4.2	3.4	2.5	2.5	2.5	1.7
82.5°	4.2	3.4	3.4	2.5	2.5	2.5	2.5	1.7	1.7	1.7	0.8
85°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	724.0	731.7	731.7	738.5	739.3	737.6	730.0	730.0	740.2	746.1	735.9
5°	730.8	738.5	738.5	745.3	748.7	746.1	738.5	739.3	749.5	756.3	746.1
7.5°	736.8	744.4	746.1	753.8	756.3	753.8	746.1	747.8	758.9	764.8	754.6
10°	739.3	747.0	747.8	756.3	759.7	756.3	750.4	751.2	763.1	767.4	758.0
12.5°	745.3	752.9	752.9	762.3	765.7	763.1	755.5	757.2	769.1	773.3	764.0
15°	751.2	758.9	758.9	769.1	773.3	769.9	764.0	764.8	776.7	781.0	773.3
17.5°	751.2	758.0	758.0	769.1	773.3	770.8	764.0	764.8	777.6	781.0	773.3
20°	740.2	747.8	746.1	757.2	761.4	758.9	752.9	752.9	765.7	769.1	761.4
22.5°	722.3	729.1	727.4	737.6	742.7	739.3	734.2	733.4	746.1	749.5	741.9
25°	697.7	704.5	702.8	713.0	718.1	713.8	707.9	708.7	718.9	724.0	717.2
27.5°	668.8	673.0	670.5	680.7	685.8	681.5	675.6	676.4	686.6	690.0	684.9
30°	629.7	633.1	630.6	639.1	642.5	639.9	634.8	634.8	644.2	648.4	643.3
32.5°	583.0	585.5	583.0	589.8	596.6	591.5	586.4	586.4	596.6	600.0	594.0
35°	528.6	531.1	529.4	536.2	541.3	534.5	530.3	528.6	542.2	540.5	537.1
37.5°	468.2	469.9	464.8	476.7	479.3	471.6	468.2	466.5	478.4	477.6	474.2
40°	400.3	402.0	398.6	407.1	407.9	402.0	399.4	396.9	408.8	407.9	405.4
42.5°	328.0	328.9	324.6	331.4	333.1	327.2	326.3	322.9	334.0	332.3	331.4
45°	253.2	253.2	249.8	254.9	256.6	251.5	249.8	249.0	256.6	256.6	254.9
47.5°	183.6	181.0	176.8	184.4	185.3	181.9	181.0	178.5	186.1	186.1	184.4
50°	125.8	124.9	124.1	125.8	126.6	122.4	124.9	122.4	126.6	126.6	126.6
52.5°	84.1	83.3	81.6	83.3	83.3	80.7	80.7	79.9	83.3	83.3	81.6
55°	52.7	51.8	51.0	51.8	51.8	49.3	51.0	49.3	51.0	51.0	50.1
57.5°	32.3	30.6	30.6	29.7	29.7	28.0	28.9	28.9	28.9	28.9	28.9
60°	18.7	17.8	17.0	17.0	17.0	16.1	16.1	16.1	16.1	16.1	16.1
62.5°	11.9	11.9	11.0	11.0	11.0	11.0	11.0	10.2	11.0	11.0	11.0
65°	10.2	9.3	9.3	9.3	9.3	8.5	8.5	8.5	8.5	8.5	8.5
67.5°	8.5	7.6	7.6	7.6	7.6	6.8	6.8	6.8	6.8	6.8	6.8
70°	6.8	5.9	5.9	5.9	5.9	5.9	5.1	5.9	5.9	5.1	5.1
72.5°	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	747.8	739.3	735.1	743.6	747.0	742.7	739.3	733.4	739.3	742.7	747.0
5°	758.0	750.4	747.0	752.9	758.0	753.8	751.2	745.3	751.2	753.8	758.0
7.5°	767.4	759.7	755.5	761.4	767.4	761.4	758.9	753.8	758.9	761.4	767.4
10°	770.8	762.3	758.9	764.0	769.9	764.0	760.6	757.2	760.6	764.0	769.9
12.5°	776.7	768.2	764.0	768.2	774.2	768.2	764.8	762.3	764.8	768.2	774.2
15°	785.2	777.6	772.5	776.7	784.4	777.6	773.3	772.5	773.3	777.6	784.4
17.5°	785.2	779.3	774.2	777.6	785.2	780.1	774.2	775.9	774.2	780.1	785.2
20°	774.2	768.2	764.0	764.0	775.0	768.2	763.1	765.7	763.1	768.2	775.0
22.5°	754.6	749.5	745.3	744.4	755.5	749.5	742.7	747.8	742.7	749.5	755.5
25°	729.1	724.0	720.6	718.9	730.0	723.2	717.2	722.3	717.2	723.2	730.0
27.5°	696.0	691.7	688.3	685.8	696.0	690.0	684.1	689.2	684.1	690.0	696.0
30°	653.5	651.0	647.6	644.2	654.4	648.4	642.5	649.3	642.5	648.4	654.4
32.5°	604.2	602.5	598.3	594.9	605.1	598.3	594.0	599.1	594.0	598.3	605.1
35°	547.3	544.7	542.2	536.2	547.3	541.3	541.3	543.0	541.3	541.3	547.3
37.5°	483.5	481.8	478.4	473.3	482.7	478.4	476.7	481.8	476.7	478.4	482.7
40°	412.2	411.3	408.8	402.8	413.0	408.8	406.2	413.0	406.2	408.8	413.0
42.5°	337.4	335.7	333.1	332.3	337.4	334.0	336.5	336.5	336.5	334.0	337.4
45°	260.0	258.3	256.6	253.2	259.2	257.5	256.6	258.3	256.6	257.5	259.2
47.5°	188.7	187.0	185.3	182.7	188.7	186.1	186.1	187.8	186.1	186.1	188.7
50°	126.6	127.5	126.6	124.9	126.6	125.8	126.6	128.3	126.6	125.8	126.6
52.5°	84.1	84.1	82.4	81.6	83.3	82.4	85.0	83.3	85.0	82.4	83.3
55°	51.0	51.8	51.0	50.1	51.0	50.1	52.7	51.8	52.7	50.1	51.0
57.5°	28.9	28.9	29.7	28.9	30.6	29.7	29.7	29.7	29.7	29.7	30.6
60°	16.1	16.1	16.1	16.1	16.1	16.1	17.0	16.1	17.0	16.1	16.1
62.5°	11.0	11.0	11.0	10.2	11.0	10.2	11.0	11.0	11.0	10.2	11.0
65°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
67.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	743.6	735.1	739.3	747.8	735.9	746.1	740.2	730.0	730.0	737.6	739.3
5°	752.9	747.0	750.4	758.0	746.1	756.3	749.5	739.3	738.5	746.1	748.7
7.5°	761.4	755.5	759.7	767.4	754.6	764.8	758.9	747.8	746.1	753.8	756.3
10°	764.0	758.9	762.3	770.8	758.0	767.4	763.1	751.2	750.4	756.3	759.7
12.5°	768.2	764.0	768.2	776.7	764.0	773.3	769.1	757.2	755.5	763.1	765.7
15°	776.7	772.5	777.6	785.2	773.3	781.0	776.7	764.8	764.0	769.9	773.3
17.5°	777.6	774.2	779.3	785.2	773.3	781.0	777.6	764.8	764.0	770.8	773.3
20°	764.0	764.0	768.2	774.2	761.4	769.1	765.7	752.9	752.9	758.9	761.4
22.5°	744.4	745.3	749.5	754.6	741.9	749.5	746.1	733.4	734.2	739.3	742.7
25°	718.9	720.6	724.0	729.1	717.2	724.0	718.9	708.7	707.9	713.8	718.1
27.5°	685.8	688.3	691.7	696.0	684.9	690.0	686.6	676.4	675.6	681.5	685.8
30°	644.2	647.6	651.0	653.5	643.3	648.4	644.2	634.8	634.8	639.9	642.5
32.5°	594.9	598.3	602.5	604.2	594.0	600.0	596.6	586.4	586.4	591.5	596.6
35°	536.2	542.2	544.7	547.3	537.1	540.5	542.2	528.6	530.3	534.5	541.3
37.5°	473.3	478.4	481.8	483.5	474.2	477.6	478.4	466.5	468.2	471.6	479.3
40°	402.8	408.8	411.3	412.2	405.4	407.9	408.8	396.9	399.4	402.0	407.9
42.5°	332.3	333.1	335.7	337.4	331.4	332.3	334.0	322.9	326.3	327.2	333.1
45°	253.2	256.6	258.3	260.0	254.9	256.6	256.6	249.0	249.8	251.5	256.6
47.5°	182.7	185.3	187.0	188.7	184.4	186.1	186.1	178.5	181.0	181.9	185.3
50°	124.9	126.6	127.5	126.6	126.6	126.6	126.6	122.4	124.9	122.4	126.6
52.5°	81.6	82.4	84.1	84.1	81.6	83.3	83.3	79.9	80.7	80.7	83.3
55°	50.1	51.0	51.8	51.0	50.1	51.0	51.0	49.3	51.0	49.3	51.8
57.5°	28.9	29.7	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.0	29.7
60°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	17.0
62.5°	10.2	11.0	11.0	11.0	11.0	11.0	11.0	10.2	11.0	11.0	11.0
65°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.3
67.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.6
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.9	5.1	5.9	5.9
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	738.5	731.7	731.7	724.0	730.8	731.7	723.2	720.6	730.0	719.8	724.9
5°	745.3	738.5	738.5	730.8	735.9	735.9	727.4	723.2	732.5	722.3	726.6
7.5°	753.8	746.1	744.4	736.8	741.0	741.9	731.7	725.7	735.1	723.2	727.4
10°	756.3	747.8	747.0	739.3	742.7	743.6	731.7	726.6	734.2	721.5	724.0
12.5°	762.3	752.9	752.9	745.3	747.8	747.8	735.9	729.1	735.9	723.2	724.9
15°	769.1	758.9	758.9	751.2	752.9	753.8	739.3	732.5	738.5	724.9	726.6
17.5°	769.1	758.0	758.0	751.2	752.1	751.2	737.6	730.0	734.2	719.8	720.6
20°	757.2	746.1	747.8	740.2	741.0	740.2	725.7	718.1	722.3	707.0	708.7
22.5°	737.6	727.4	729.1	722.3	722.3	721.5	707.9	700.2	704.5	689.2	690.0
25°	713.0	702.8	704.5	697.7	698.5	698.5	684.9	676.4	680.7	667.1	667.1
27.5°	680.7	670.5	673.0	668.8	666.3	667.1	655.2	646.7	651.0	638.2	638.2
30°	639.1	630.6	633.1	629.7	627.2	627.2	617.0	608.5	612.7	601.7	600.8
32.5°	589.8	583.0	585.5	583.0	580.4	583.0	571.9	563.4	567.7	559.2	560.0
35°	536.2	529.4	531.1	528.6	526.9	528.6	517.5	511.6	515.8	507.3	510.7
37.5°	476.7	464.8	469.9	468.2	466.5	467.4	457.2	452.9	458.0	452.9	455.5
40°	407.1	398.6	402.0	400.3	398.6	402.8	395.2	389.2	393.5	390.1	395.2
42.5°	331.4	324.6	328.9	328.0	325.5	330.6	324.6	320.4	327.2	325.5	329.7
45°	254.9	249.8	253.2	253.2	252.4	256.6	250.7	251.5	258.3	260.9	266.0
47.5°	184.4	176.8	181.0	183.6	183.6	187.8	184.4	187.8	195.5	200.6	204.8
50°	125.8	124.1	124.9	125.8	127.5	130.9	130.0	135.1	140.2	148.7	153.8
52.5°	83.3	81.6	83.3	84.1	85.8	89.2	89.2	95.2	101.1	108.8	114.7
55°	51.8	51.0	51.8	52.7	54.4	57.8	58.6	64.6	70.5	78.2	83.3
57.5°	29.7	30.6	30.6	32.3	33.1	35.7	38.2	41.6	48.4	56.1	61.2
60°	17.0	17.0	17.8	18.7	19.5	22.1	23.8	27.2	32.3	39.9	43.3
62.5°	11.0	11.0	11.9	11.9	12.7	14.4	16.1	19.5	23.8	29.7	33.1
65°	9.3	9.3	9.3	10.2	10.2	11.9	13.6	16.1	19.5	23.8	27.2
67.5°	7.6	7.6	7.6	8.5	8.5	9.3	11.0	12.7	15.3	18.7	21.2
70°	5.9	5.9	5.9	6.8	6.8	7.6	8.5	9.3	11.9	14.4	16.1
72.5°	4.2	4.2	5.1	5.1	5.1	5.9	6.8	7.6	9.3	11.0	11.9
75°	3.4	3.4	3.4	3.4	4.2	4.2	5.1	5.9	6.8	7.6	8.5
77.5°	1.7	1.7	2.5	2.5	2.5	3.4	3.4	4.2	5.1	5.9	5.9
80°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	4.2	4.2
82.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	2.5	2.5	2.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	718.9	721.5	721.5	718.9	712.1	718.1	724.0	718.1	725.7	712.1	712.1
5°	718.9	720.6	719.8	716.4	709.6	714.7	718.9	713.0	718.9	706.2	705.3
7.5°	720.6	718.9	717.2	713.0	704.5	707.9	712.1	705.3	711.3	697.7	696.0
10°	717.2	714.7	711.3	705.3	696.0	698.5	701.1	695.1	699.4	685.8	684.9
12.5°	717.2	713.0	707.9	701.1	690.9	692.6	695.1	687.5	690.9	678.1	676.4
15°	718.9	711.3	705.3	697.7	686.6	687.5	689.2	680.7	684.1	670.5	669.7
17.5°	713.0	704.5	698.5	689.2	677.3	678.1	678.1	669.7	672.2	658.6	657.8
20°	700.2	690.0	683.2	674.7	662.0	662.0	662.0	653.5	655.2	643.3	641.6
22.5°	682.4	671.3	664.6	656.1	644.2	643.3	642.5	635.7	635.7	624.6	622.1
25°	658.6	648.4	641.6	634.0	622.1	620.4	620.4	614.4	613.6	603.4	601.7
27.5°	631.4	619.5	613.6	606.8	595.7	594.0	593.2	589.8	588.1	577.0	576.2
30°	594.9	584.7	579.6	573.6	563.4	561.7	560.9	557.5	556.6	545.6	545.6
32.5°	555.8	543.0	539.6	533.7	526.0	525.2	526.0	521.8	518.4	510.7	509.0
35°	509.0	496.3	493.7	491.2	485.2	483.5	482.7	481.8	477.6	472.5	469.9
37.5°	454.6	443.6	443.6	442.8	438.5	438.5	438.5	436.8	432.6	430.9	425.8
40°	396.0	387.5	388.4	389.2	387.5	388.4	389.2	387.5	384.1	382.4	378.2
42.5°	333.1	328.9	332.3	334.8	334.8	337.4	339.1	339.1	334.8	334.0	330.6
45°	270.2	269.4	276.2	281.3	283.0	287.2	289.8	288.1	288.1	288.1	284.7
47.5°	211.6	215.0	221.0	231.1	234.5	239.6	241.3	243.9	243.0	243.9	241.3
50°	160.6	168.3	175.9	186.1	191.2	197.2	199.7	203.1	203.1	204.0	202.3
52.5°	121.5	127.5	140.2	147.0	153.0	158.9	162.3	165.7	166.6	166.6	164.9
55°	90.1	98.6	107.1	116.4	121.5	127.5	130.0	133.4	133.4	135.1	133.4
57.5°	65.4	73.9	83.3	90.1	96.0	100.3	102.8	105.4	107.1	107.1	106.2
60°	48.4	55.2	62.9	69.7	74.8	79.0	80.7	83.3	84.1	84.1	82.4
62.5°	36.5	43.3	50.1	56.1	59.5	62.9	64.6	66.3	66.3	66.3	65.4
65°	29.7	34.8	39.9	45.0	48.4	51.0	51.8	53.5	52.7	53.5	52.7
67.5°	23.8	27.2	31.4	34.8	37.4	39.1	39.9	41.6	40.8	41.6	40.8
70°	17.8	21.2	23.8	26.3	28.0	29.7	30.6	31.4	30.6	31.4	30.6
72.5°	13.6	15.3	17.8	20.4	21.2	22.1	22.9	22.9	22.9	23.8	22.9
75°	9.3	11.0	12.7	13.6	15.3	16.1	16.1	17.0	17.0	17.0	17.0
77.5°	6.8	7.6	8.5	9.3	10.2	11.0	11.0	11.9	11.9	11.9	11.9
80°	4.2	5.1	5.1	5.9	6.8	6.8	7.6	7.6	7.6	7.6	7.6
82.5°	2.5	3.4	3.4	4.2	4.2	4.2	5.1	5.1	5.1	5.1	5.1
85°	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	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



TEST NUMBER: P212793

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**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	730.0	730.0	730.0	730.0
2.5°	718.9	714.7	721.5	711.3
5°	711.3	707.0	715.5	702.8
7.5°	701.9	697.7	705.3	692.6
10°	690.0	685.8	692.6	679.0
12.5°	679.8	675.6	683.2	670.5
15°	672.2	668.0	674.7	662.9
17.5°	660.3	655.2	662.9	650.1
20°	643.3	639.9	645.9	633.1
22.5°	623.8	620.4	627.2	614.4
25°	603.4	599.1	605.9	593.2
27.5°	577.0	573.6	580.4	567.7
30°	545.6	542.2	549.0	537.1
32.5°	509.9	506.5	511.6	501.4
35°	469.1	466.5	471.6	460.6
37.5°	424.9	422.4	427.5	416.4
40°	377.3	374.8	379.0	373.9
42.5°	330.6	328.0	332.3	328.0
45°	284.7	283.0	287.2	283.0
47.5°	242.2	240.5	244.7	240.5
50°	201.4	202.3	204.0	202.3
52.5°	164.9	164.9	167.4	164.9
55°	133.4	134.3	135.1	133.4
57.5°	106.2	106.2	107.1	106.2
60°	82.4	83.3	83.3	82.4
62.5°	65.4	65.4	65.4	65.4
65°	51.8	51.8	52.7	51.8
67.5°	40.8	39.9	40.8	39.9
70°	30.6	30.6	30.6	30.6
72.5°	23.8	23.8	22.9	22.9
75°	17.0	17.8	17.0	17.0
77.5°	11.9	11.9	11.9	11.9
80°	7.6	7.6	7.6	7.6
82.5°	5.1	5.1	5.1	5.1
85°	3.4	2.5	2.5	2.5
87.5°	1.7	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)