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## **LAMPIRAN - LAMPIRAN**

## Lampiran 1.

Penentuan nilai kecepatan tahanan model kapal

### A. Untuk kecepatan kapal 9 knot atau 0,732 m/s

9	Knot
Frs = Frm	
dimana:	
$Frs = \frac{V_s}{\sqrt{gL_s}} = \frac{4,6296}{\sqrt{9,81 * 72,1}}$	$Frm = \frac{V_m}{\sqrt{gL_m}}$
Frs = 0.17408	
Frs = Frm = 0.17408	Lm = 1.8023m g = 9.81 m/s <sup>2</sup>
sehingga kecepatan dalam m/s jika fr disamakan (berdasarkan hukum kesamaan kinematis)	
$v_m = \sqrt{g \times L_m \times Frm}$	
<b>Vm (m/s)=</b>	<b>0.732004</b>

### B. Untuk kecepatan kapal 11 knot atau 0,976 m/s

9	Knot
Frs = Frm	
dimana:	
$Frs = \frac{V_s}{\sqrt{gL_s}} = \frac{4,6296}{\sqrt{9,81 * 72,1}}$	$Frm = \frac{V_m}{\sqrt{gL_m}}$
Frs = 0.17408	
Frs = Frm = 0.17408	Lm = 1.8023m g = 9.81 m/s <sup>2</sup>
sehingga kecepatan dalam m/s jika fr disamakan (berdasarkan hukum kesamaan kinematis)	
$v_m = \sqrt{g \times L_m \times Frm}$	
<b>Vm (m/s)=</b>	<b>0.732004</b>

### C. Untuk kecepatan kapal 15 knot atau 1,22 m/s

15	Knot
Frs = Frm	
dimana:	
$Frs = \frac{V_s}{\sqrt{gL_s}} = \frac{7.716}{\sqrt{9,81 * 72,1}}$	$Frm = \frac{V_m}{\sqrt{gL_m}}$
Frs = 0.29013	
Frs = Frm = 0.29013	Lm = 1.8023m g = 9.81 m/s <sup>2</sup>
sehingga kecepatan dalam m/s jika fr disamakan (berdasarkan hukum kesamaan kinematis)	
$v_m = \sqrt{g \times L_m \times Frm}$	
<b>Vm (m/s)=</b>	<b>1,22</b>

## Lampiran 2.

Perhitungan tegangan tiap kecepatan pada *rigid body*:

Perhitungan tegangan di kecepatan 0,732 m/s

V = 0,732 m/s	Data Digital			Tegangan (v)			Tegangan (N/m <sup>2</sup> )		
waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00













Perhitungan tegangan di kecepatan 0,976 m/s

V = 0,976 m/s	Data Digital			Tegangan (v)			Tekanan (N/m <sup>2</sup> )		
	waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
1.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
2.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
2.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
3.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
4.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
5.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.7	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
5.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00















Perhitungan tegangan di kecepatan 1,22 m/s

V = 1,22 m/s	Data Digital			Tegangan (v)			Tekanan (N/m <sup>2</sup> )		
waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
3.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
4.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00



14.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
14.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
14.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
14.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
15.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
15.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
15.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
16.7	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
16.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
16.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
17.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
17.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
18.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
19	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
19.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
19.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
19.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
20.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
21.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
21.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
21.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
22	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

22.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.6	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
22.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
23	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.1	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
23.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
23.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
23.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
23.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
23.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
25	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
25.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
25.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
27.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
28.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
28.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
29	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
29.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
29.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00









### Lampiran 3.

Perhitungan tegangan tiap kecepatan pada model *rigid body bulbousbow*:

Perhitungan tegangan di kecepatan 0,732 m/s

V = 0,732 m/s	Data Digital			Tegangan (v)			Tegangan (N/m <sup>2</sup> )		
	waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00





























Perhitungan tegangan di kecepatan 1,22 m/s

V = 1,22 m/s	Data Digital			Tegangan (v)			Tegangan (N/m <sup>2</sup> )		
	waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
3.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00















## Lampiran 4.

Perhitungan tegangan tiap kecepatan model *hydroelastic body*:

Perhitungan tegangan di kecepatan 0,732 m/s

V = 0,732 m/s	Data Digital			Tegangan (v)			Tegangan (N/m <sup>2</sup> )		
	waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
0.5	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
0.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
0.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
0.8	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
1.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
1.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
1.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
1.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
1.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
2.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
2.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
2.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
2.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
2.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
2.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
3.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
3.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
3.4	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
3.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
3.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
3.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
3.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
4.1	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
4.2	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
4.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
4.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
4.5	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
4.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
4.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
5.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
5.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
5.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
5.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
5.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
5.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38

6.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
6.3	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
6.4	2	3	0	0.010	0.015	0.000	135.38	203.07	0.00
6.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
6.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.7	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
6.8	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
6.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
7.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
7.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
7.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
7.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
7.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
7.8	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
7.9	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
8.1	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
8.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
8.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.4	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
8.5	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
8.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
8.7	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
8.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
9.1	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
9.2	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
9.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
9.7	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
9.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
9.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
10.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
10.4	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
10.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.6	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
10.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
10.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
11	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
11.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
11.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
11.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
11.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
11.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
11.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
11.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
11.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
12	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
12.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
12.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
12.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
12.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
12.8	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
12.9	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
13	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
13.1	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
13.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
13.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
13.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
13.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
13.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
13.7	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
13.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
13.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
14	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69

14.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
14.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
14.4	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
14.5	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
14.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
14.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
14.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
14.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
15	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
15.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
15.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
15.3	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
15.4	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
15.5	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
15.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
15.7	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
15.8	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
15.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
16	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
16.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
16.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
16.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
16.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
16.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
16.6	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
16.7	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
16.8	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
16.9	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
17	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
17.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
17.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
17.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
17.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
17.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
18.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
18.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
18.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
18.4	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
18.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
18.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
18.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
18.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
18.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
19	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
19.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
19.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
19.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
19.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
19.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
19.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
20.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
20.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
20.3	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
20.4	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
20.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
20.6	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
20.7	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
20.8	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
20.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
21	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
21.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
21.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
21.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
21.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
21.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
21.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
22	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00



22.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
22.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
22.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
22.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
22.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
22.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.8	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
22.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
23	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
23.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
23.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
23.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
23.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
23.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
23.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
24	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
24.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
24.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
24.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
24.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
24.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
24.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
25.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
25.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
25.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
25.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
25.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
25.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
25.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
26.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
26.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
26.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
27	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
27.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
27.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
27.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
27.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
27.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
28	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
28.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
28.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
28.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
28.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
28.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
29	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
29.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
29.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
29.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
29.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
29.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
29.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
29.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
30	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69

30.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.2	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
30.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
30.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
30.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
30.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
30.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
30.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
31	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
31.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
31.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
31.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
31.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
31.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
31.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
31.7	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
31.8	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
31.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
32	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
32.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
32.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
32.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
32.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
33	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
33.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
33.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
33.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
33.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
33.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
33.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
34	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
34.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
34.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
34.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
34.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
34.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
34.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
34.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
34.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
35.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
35.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
35.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
35.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
35.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
35.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
35.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
35.9	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
36	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
36.1	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
36.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
36.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
36.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
36.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
36.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
36.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
37	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
37.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
37.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
37.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
37.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
37.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
37.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
37.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
38	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
38.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
38.2	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
38.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
38.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
38.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
38.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
38.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
38.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
39	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00

39.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
39.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
39.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
39.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
39.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
39.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
40	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
40.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
40.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
40.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
40.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
40.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
40.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
40.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
41	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
41.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
41.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
41.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
41.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
41.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
41.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
41.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
41.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
42	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
42.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
42.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
42.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
42.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
42.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
42.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
42.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
43.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
43.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
43.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
44.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
44.2	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
44.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
44.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
44.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
44.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
44.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
45	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
45.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
45.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
45.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
45.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
45.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
45.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
45.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
46	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
46.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
46.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
46.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
46.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
46.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

47.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
47.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
47.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
47.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
47.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
47.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
47.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
48.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
48.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
48.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
48.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
48.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
48.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
48.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
48.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
49	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
49.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
49.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
49.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
49.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
49.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
49.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
49.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
49.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
50	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
50.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
50.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
50.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
50.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
50.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
50.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
51	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
51.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
51.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
51.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
51.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
51.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
51.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
51.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
52	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
52.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
52.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
52.3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
52.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
52.5	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
52.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
52.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
52.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
52.9	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
53	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
53.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
53.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
53.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
53.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
53.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
54	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
54.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
54.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
54.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
54.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
54.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
54.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
55	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
55.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
rata-rata				0.0026	0.0028	0.0023	35.87	38.70	31.70

Nilai tegangan pada kecepatan 0,976 m/s model *Hydroelastic body*

waktu	Data Digital			Tegangan (v)			Tegangan (N/m <sup>2</sup> )		
	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
0.5	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
0.8	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
0.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
1.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
1.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
1.4	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
1.5	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
1.6	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
1.7	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
1.8	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
1.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
2.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
2.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
2.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
2.6	0	4	3	0.000	0.020	0.015	0.00	270.76	203.07
2.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
2.8	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
2.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
3.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
3.4	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
3.5	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
3.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
3.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
4.2	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
4.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
4.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.7	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
4.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
5.1	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
5.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.3	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
5.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
5.5	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
5.6	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
5.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
5.9	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07

6.1	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
6.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
6.3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
6.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
6.6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
6.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
6.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
6.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
7.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
7.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
7.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
7.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
7.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
7.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
7.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
7.8	0	4	1	0.000	0.020	0.005	0.00	270.76	67.69
7.9	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
8.1	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
8.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
8.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
8.6	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
8.7	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
8.8	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
8.9	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
9	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
9.1	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
9.2	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
9.3	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
9.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
9.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
9.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
10.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
10.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
10.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
10.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
10.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
11	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
11.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
11.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
11.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
11.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.6	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
11.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.8	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
11.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
12	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
12.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
12.3	0	4	1	0.000	0.020	0.005	0.00	270.76	67.69
12.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
12.6	0	4	2	0.000	0.020	0.010	0.00	270.76	135.38
12.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
12.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
13	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
13.1	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
13.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
13.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
13.4	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
13.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
13.7	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
13.8	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
13.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38

14.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
14.2	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
14.3	0	1	4	0.000	0.005	0.020	0.00	67.69	270.76
14.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
14.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
14.6	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
14.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
14.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
14.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
15.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.3	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
15.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.5	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
15.6	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
15.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
15.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
15.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
16.1	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
16.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.3	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
16.4	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
16.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.6	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
16.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
16.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.9	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
17	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
17.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
17.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
17.4	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
17.5	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
17.6	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
17.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
17.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
18	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
18.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
18.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
18.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
18.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
18.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
19.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
19.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.3	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
19.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
19.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
19.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
19.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.8	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
19.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
20.4	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
20.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
20.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.7	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
20.8	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
20.9	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
21	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
21.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
21.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.3	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
21.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
21.6	0	4	2	0.000	0.020	0.010	0.00	270.76	135.38
21.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
21.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
21.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
22	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

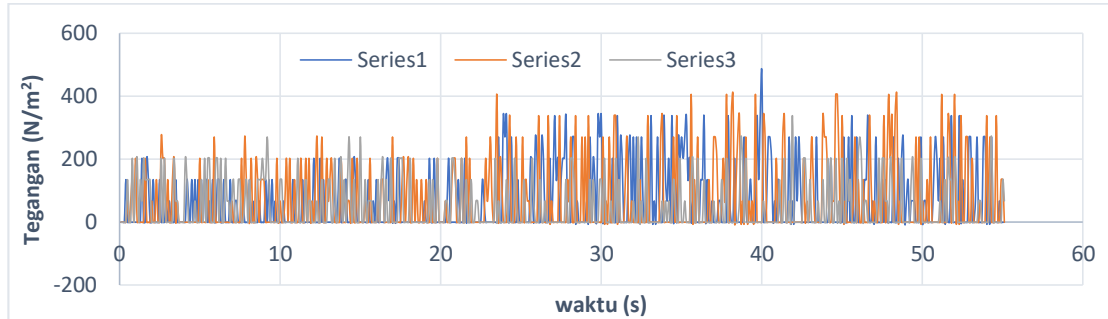
22.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
22.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
22.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
22.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
23.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.4	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
23.5	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
23.6	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
23.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
23.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
24	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
24.1	5	0	2	0.024	0.000	0.010	338.45	0.00	135.38
24.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
24.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
24.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
24.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
24.7	0	4	1	0.000	0.020	0.005	0.00	270.76	67.69
24.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
24.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
25.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
25.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
25.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
25.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
25.7	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
25.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
25.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
26	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
26.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
26.2	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
26.3	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
26.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
26.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
26.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
26.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
26.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
27.1	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
27.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
27.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
27.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
27.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
27.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
27.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
27.8	5	0	2	0.024	0.000	0.010	338.45	0.00	135.38
27.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
28	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28.1	0	4	3	0.000	0.020	0.015	0.00	270.76	203.07
28.2	4	0	3	0.020	0.000	0.015	270.76	0.00	203.07
28.3	4	0	2	0.020	0.000	0.010	270.76	0.00	135.38
28.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
28.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
28.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
28.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
29.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
29.2	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
29.3	4	0	2	0.020	0.000	0.010	270.76	0.00	135.38
29.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.5	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
29.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
29.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.8	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
29.9	4	0	2	0.020	0.000	0.010	270.76	0.00	135.38
30	5	0	2	0.024	0.000	0.010	338.45	0.00	135.38
30.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
30.2	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
30.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
30.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
30.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
30.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
30.8	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
30.9	0	5	3	0.000	0.024	0.015	0.00	338.45	203.07
31	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00



31.1	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
31.2	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
31.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
31.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
31.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
31.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
31.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
31.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
32	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
32.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.2	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
32.3	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
32.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
32.5	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
32.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.8	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
32.9	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
33	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.1	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
33.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
33.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.5	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
33.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
33.7	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
33.8	0	5	1	0.000	0.024	0.005	0.00	338.45	67.69
33.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
34	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
34.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
34.2	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
34.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.4	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
34.5	0	4	2	0.000	0.020	0.010	0.00	270.76	135.38
34.6	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
34.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
34.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
34.9	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
35	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
35.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
35.2	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
35.3	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
35.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
35.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
35.6	0	6	2	0.000	0.029	0.010	0.00	406.14	135.38
35.7	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
35.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
35.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36	0	4	3	0.000	0.020	0.015	0.00	270.76	203.07
36.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
36.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
36.4	5	0	2	0.024	0.000	0.010	338.45	0.00	135.38
36.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
36.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
36.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
37	0	4	1	0.000	0.020	0.005	0.00	270.76	67.69
37.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
37.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
37.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
37.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
37.5	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
37.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
37.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.8	0	6	3	0.000	0.029	0.015	0.00	406.14	203.07
37.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
38	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
38.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
38.2	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
38.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
38.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
38.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
38.6	0	5	1	0.000	0.024	0.005	0.00	338.45	67.69
38.7	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
38.8	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
38.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
39	1	4	3	0.005	0.020	0.015	67.69	270.76	203.07
39.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
39.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
39.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
39.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.6	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
39.7	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
39.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
39.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
40	7	0	0	0.034	0.000	0.000	473.83	0.00	0.00

40.1	0	5	1	0.000	0.024	0.005	0.00	338.45	67.69
40.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
40.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
40.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
40.5	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
40.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
40.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
40.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
41	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
41.1	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
41.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.3	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
41.4	0	5	3	0.000	0.024	0.015	0.00	338.45	203.07
41.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.7	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
41.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.9	1	0	5	0.005	0.000	0.024	67.69	0.00	338.45
42	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
42.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
42.3	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
42.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
42.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.6	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
42.7	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
42.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
42.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
43.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
43.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
43.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
43.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.8	0	5	2	0.000	0.024	0.010	0.00	338.45	135.38
43.9	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
44	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
44.1	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
44.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
44.3	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
44.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
44.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
44.6	0	6	3	0.000	0.029	0.015	0.00	406.14	203.07
44.7	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
44.8	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
44.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45	0	5	3	0.000	0.024	0.015	0.00	338.45	203.07
45.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
45.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
45.3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
45.4	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
45.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
45.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
45.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
45.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
45.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
46	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
46.1	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
46.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
46.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
46.4	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
46.5	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
46.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
46.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
46.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
46.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
47.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
47.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
47.3	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
47.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.5	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
47.6	0	5	3	0.000	0.024	0.015	0.00	338.45	203.07
47.7	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
47.8	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
47.9	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
48	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07

48.1	0	5	2	0.000	0.024	0.010	0.00	338.45	135.38
48.2	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
48.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
48.4	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
48.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
48.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
48.7	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
48.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
48.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
49.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
49.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.3	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
49.4	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
49.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
49.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
49.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
49.9	4	0	3	0.020	0.000	0.015	270.76	0.00	203.07
50	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
50.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
50.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
50.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
50.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
50.9	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
51	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
51.1	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
51.2	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
51.3	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
51.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
51.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
51.6	0	5	3	0.000	0.024	0.015	0.00	338.45	203.07
51.7	0	4	2	0.000	0.020	0.010	0.00	270.76	135.38
51.8	5	0	2	0.024	0.000	0.010	338.45	0.00	135.38
51.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
52	0	6	3	0.000	0.029	0.015	0.00	406.14	203.07
52.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
52.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
52.3	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
52.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
52.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
52.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.7	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
52.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
52.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
53	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
53.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
53.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
53.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
53.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
53.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
53.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
54	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
54.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
54.2	0	4	2	0.000	0.020	0.010	0.00	270.76	135.38
54.3	4	0	4	0.020	0.000	0.020	270.76	0.00	270.76
54.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
54.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
54.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
55	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
55.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
				0.0047	0.0051	0.0035	65.72	71.13	48.53



Grafik tegangan model hydroelastic body pada kecepatan 0,976

Perhitungan tegangan di kecepatan 1,22 m/s

V = 0,976 m/s									
waktu	Data Digital			Tegangan (v)			Tegangan (N/m <sup>2</sup> )		
	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
0.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
0.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
0.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
0.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
0.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
0.8	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
0.9	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
1.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
1.2	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
1.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
1.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
1.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
1.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
1.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
1.8	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
1.9	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
2	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
2.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
2.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
2.3	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
2.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
2.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
2.6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
2.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
2.8	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
2.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
3	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
3.1	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
3.2	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
3.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
3.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
3.6	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
3.7	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
3.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
3.9	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
4.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
4.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
4.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
4.4	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
4.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
4.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
4.7	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
4.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
4.9	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
5.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
5.2	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
5.3	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
5.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
5.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
5.6	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
5.7	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
5.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
5.9	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00

6.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
6.2	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
6.3	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
6.4	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
6.5	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
6.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
6.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
6.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
6.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
7	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
7.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
7.2	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
7.3	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
7.4	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
7.5	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
7.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
7.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
7.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
7.9	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
8.1	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
8.2	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
8.3	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
8.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
8.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
8.6	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
8.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
8.8	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
8.9	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
9	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
9.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
9.2	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
9.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
9.4	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
9.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
9.6	0	4	1	0.000	0.020	0.005	0.00	270.76	67.69
9.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
9.8	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
9.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
10	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
10.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.2	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
10.3	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
10.4	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
10.5	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
10.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
10.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.8	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
10.9	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
11	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
11.1	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
11.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
11.3	0	0	6	0.000	0.000	0.029	0.00	0.00	406.14
11.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
11.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
11.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
11.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
11.8	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
11.9	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
12	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
12.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
12.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
12.3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
12.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
12.5	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
12.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
12.7	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
12.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
12.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
13	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
13.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
13.2	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
13.3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
13.4	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
13.5	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
13.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
13.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
13.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
13.9	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
14	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
14.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
14.2	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
14.3	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
14.4	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
14.5	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
14.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
14.7	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
14.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
14.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
15	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00

15.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
15.2	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
15.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
15.4	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
15.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
15.6	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
15.7	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
15.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
15.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
16.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
16.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
16.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
16.5	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
16.6	7	0	0	0.034	0.000	0.000	473.83	0.00	0.00
16.7	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
16.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
16.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
17	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
17.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
17.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
17.3	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
17.4	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
17.5	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
17.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
17.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
17.8	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
17.9	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
18	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
18.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
18.2	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
18.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
18.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
18.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
18.6	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
18.7	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
18.8	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
18.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
19	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
19.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
19.2	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
19.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
19.4	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
19.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
19.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
19.7	5	0	1	0.024	0.000	0.005	338.45	0.00	67.69
19.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
19.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
20	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
20.1	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
20.2	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
20.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
20.4	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
20.5	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
20.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
20.7	7	0	0	0.034	0.000	0.000	473.83	0.00	0.00
20.8	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
20.9	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
21	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
21.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.2	1	0	5	0.005	0.000	0.024	67.69	0.00	338.45
21.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
21.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
21.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
21.6	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
21.7	0	0	6	0.000	0.000	0.029	0.00	0.00	406.14
21.8	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
21.9	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
22	0	7	0	0.000	0.034	0.000	0.00	473.83	0.00
22.1	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
22.2	0	7	0	0.000	0.034	0.000	0.00	473.83	0.00
22.3	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
22.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
22.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
22.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
22.7	6	0	0	0.029	0.000	0.000	406.14	0.00	0.00
22.8	3	3	0	0.015	0.015	0.000	203.07	203.07	0.00
22.9	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
23	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
23.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
23.2	5	0	1	0.024	0.000	0.005	338.45	0.00	67.69
23.3	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
23.4	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
23.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
23.6	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
23.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
23.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
23.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
24	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00

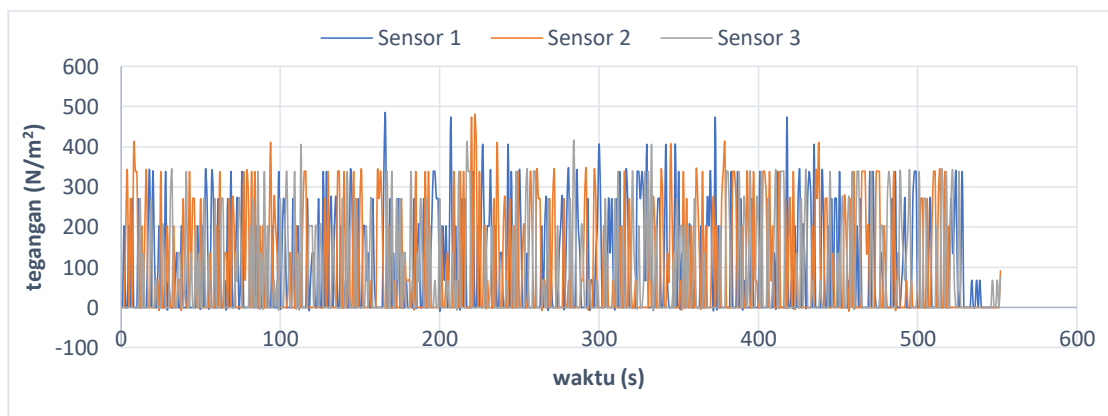
24.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
24.2	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
24.3	6	0	0	0.029	0.000	0.000	406.14	0.00	0.00
24.4	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
24.5	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
24.6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
24.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
24.8	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
24.9	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
25	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
25.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
25.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
25.4	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
25.5	2	0	5	0.010	0.000	0.024	135.38	0.00	338.45
25.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
25.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
25.9	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
26	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
26.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
26.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
26.3	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
26.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
26.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
26.6	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
26.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
26.8	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
26.9	1	4	0	0.005	0.020	0.000	67.69	270.76	0.00
27	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
27.2	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
27.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.4	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
27.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
27.6	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
27.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
27.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
27.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
28	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
28.1	5	1	0	0.024	0.005	0.000	338.45	67.69	0.00
28.2	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
28.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
28.4	0	0	6	0.000	0.000	0.029	0.00	0.00	406.14
28.5	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
28.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
28.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
28.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
28.9	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
29	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
29.1	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
29.2	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
29.3	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
29.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
29.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
29.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
29.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
29.8	2	4	0	0.010	0.020	0.000	135.38	270.76	0.00
29.9	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
30	6	0	0	0.029	0.000	0.000	406.14	0.00	0.00
30.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
30.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
30.4	3	0	4	0.015	0.000	0.020	203.07	0.00	270.76
30.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
30.6	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
30.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
30.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
30.9	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
31	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
31.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
31.2	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
31.3	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
31.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
31.5	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
31.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
31.7	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
31.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
31.9	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
32	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
32.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
32.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
32.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
32.4	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
32.5	5	0	3	0.024	0.000	0.015	338.45	0.00	203.07
32.6	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
32.7	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
32.8	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
32.9	1	0	5	0.005	0.000	0.024	67.69	0.00	338.45
33	6	0	1	0.029	0.000	0.005	406.14	0.00	67.69

33.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
33.2	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
33.3	0	0	6	0.000	0.000	0.029	0.00	0.00	406.14
33.4	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
33.5	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
33.6	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
33.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
33.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
33.9	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
34	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
34.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
34.2	6	0	0	0.029	0.000	0.000	406.14	0.00	0.00
34.3	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
34.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
34.5	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
34.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
34.7	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
34.8	6	0	0	0.029	0.000	0.000	406.14	0.00	0.00
34.9	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
35	5	0	1	0.024	0.000	0.005	338.45	0.00	67.69
35.1	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
35.2	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
35.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
35.4	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
35.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
35.6	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
35.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
35.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
35.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
36	1	0	4	0.005	0.000	0.020	67.69	0.00	270.76
36.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
36.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
36.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
36.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
36.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
36.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
36.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
36.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
36.9	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
37	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
37.1	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
37.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
37.3	7	0	0	0.034	0.000	0.000	473.83	0.00	0.00
37.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
37.5	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
37.6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
37.7	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
37.8	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
37.9	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
38	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
38.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
38.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
38.3	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
38.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
38.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
38.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
38.7	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
38.8	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
38.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
39	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
39.1	1	0	4	0.005	0.000	0.020	67.69	0.00	270.76
39.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
39.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
39.4	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
39.5	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
39.6	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
39.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
39.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
39.9	0	1	4	0.000	0.005	0.020	0.00	67.69	270.76
40	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
40.1	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
40.2	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
40.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
40.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
40.5	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
40.6	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
40.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
40.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
40.9	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
41	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
41.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
41.2	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
41.3	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
41.4	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
41.5	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
41.6	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
41.7	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
41.8	7	0	0	0.034	0.000	0.000	473.83	0.00	0.00
41.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
42	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00



42.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
42.2	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
42.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
42.4	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
42.5	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
42.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
42.7	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
42.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
42.9	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
43	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
43.1	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
43.2	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
43.3	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
43.4	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
43.5	6	0	0	0.029	0.000	0.000	406.14	0.00	0.00
43.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
43.7	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
43.8	0	6	0	0.000	0.029	0.000	0.00	406.14	0.00
43.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
44	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
44.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
44.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
44.3	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
44.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
44.5	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
44.6	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
44.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
44.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
44.9	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
45	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
45.1	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
45.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
45.3	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
45.4	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
45.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
45.6	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
45.7	1	0	4	0.005	0.000	0.020	67.69	0.00	270.76
45.8	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
45.9	1	0	5	0.005	0.000	0.024	67.69	0.00	338.45
46	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
46.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
46.2	3	0	5	0.015	0.000	0.024	203.07	0.00	338.45
46.3	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
46.4	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
46.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
46.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
46.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
46.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
46.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
47	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
47.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
47.2	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
47.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
47.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
47.6	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
47.7	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
47.8	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
47.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
48	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
48.1	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
48.2	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
48.3	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
48.4	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
48.5	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
48.6	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
48.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
48.8	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
48.9	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
49	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
49.1	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
49.2	4	0	1	0.020	0.000	0.005	270.76	0.00	67.69
49.3	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
49.4	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
49.5	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
49.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
49.7	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
49.8	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
49.9	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
50	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69

50.1	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
50.2	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
50.3	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
50.4	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
50.5	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
50.6	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
50.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
50.8	4	0	0	0.020	0.000	0.000	270.76	0.00	0.00
50.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
51	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
51.1	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
51.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
51.3	0	4	0	0.000	0.020	0.000	0.00	270.76	0.00
51.4	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
51.5	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
51.6	0	0	4	0.000	0.000	0.020	0.00	0.00	270.76
51.7	0	5	0	0.000	0.024	0.000	0.00	338.45	0.00
51.8	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
51.9	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
52	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
52.1	4	0	4	0.020	0.000	0.020	270.76	0.00	270.76
52.2	2	0	5	0.010	0.000	0.024	135.38	0.00	338.45
52.3	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
52.4	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
52.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
52.6	0	0	5	0.000	0.000	0.024	0.00	0.00	338.45
52.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
52.8	5	0	0	0.024	0.000	0.000	338.45	0.00	0.00
52.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
54	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
54.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
55	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
55.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
rata-rata				0.0064	0.0066	0.0054	89.31	91.15	74.94



Grafik nilai tegangan model hydroelastic body pada kecepatan 1,22 m/s

## Lampiran 5.

Perhitungan tegangan tiap kecepatan model *hydroelastic body bulbousbow*:

Perhitungan tegangan di kecepatan 0,732 m/s

v = 0,732 kno	Data Digital			Tegangan (v)			Tegangan(N/m <sup>2</sup> )			
	waktu	P1	P2	P3	P1	P2	P3	P1	P2	P3
0.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.3	1	1	0	0	0.005	0.005	0.000	67.69	67.69	0.00
0.4	1	1	0	0	0.005	0.005	0.000	67.69	67.69	0.00
0.5	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
0.6	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
0.8	0	2	0	0	0.000	0.010	0.000	0.00	135.38	0.00
0.9	0	1	1	0	0.000	0.005	0.005	0.00	67.69	67.69
1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	1	0	0.000	0.000	0.005	0.00	0.00	67.69
1.2	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
1.6	0	0	1	0	0.000	0.000	0.005	0.00	0.00	67.69
1.7	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.8	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.9	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
2	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
2.1	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
2.2	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.3	0	0	1	0	0.000	0.000	0.005	0.00	0.00	67.69
2.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.5	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.6	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
2.7	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.8	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	2	1	0	0.000	0.010	0.005	0.00	135.38	67.69
3	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.1	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.2	0	2	1	0	0.000	0.010	0.005	0.00	135.38	67.69
3.3	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
3.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
3.6	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
3.7	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.8	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.9	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	0	0	1	0	0.000	0.000	0.005	0.00	0.00	67.69
4.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
4.6	0	2	0	0	0.000	0.010	0.000	0.00	135.38	0.00
4.7	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	0	2	0	0	0.000	0.010	0.000	0.00	135.38	0.00
4.9	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.1	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.2	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
5.3	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.4	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
5.5	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
5.6	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.7	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.8	0	2	1	0	0.000	0.010	0.005	0.00	135.38	67.69
5.9	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00

6.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
6.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
7.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
7.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
7.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
8.6	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
8.7	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
8.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
9.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
9.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
9.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
9.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.7	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
10.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
10.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
11.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
11.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.4	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
11.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
11.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
11.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
12.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
12.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
12.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
13	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
13.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
13.4	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
13.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
13.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
13.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
14.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
14.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
14.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
15	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

15.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
15.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
15.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
15.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
15.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
15.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
16.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
16.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
16.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
16.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
16.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
16.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
17	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
17.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
17.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
17.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
17.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
17.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
18.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
18.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
18.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
18.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
19	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
19.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
19.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
19.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
19.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
20.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
20.3	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
20.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
20.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
20.6	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
20.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
20.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
21	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
21.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
21.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
21.4	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
21.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
21.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
21.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
22.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
22.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
22.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
22.8	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
22.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
23.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
23.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
23.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
23.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.9	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
24	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69

24.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
24.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
24.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
25.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
25.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
25.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
25.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
25.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
26.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
26.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
26.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.8	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
26.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
27.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
27.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
28.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
28.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
28.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
29.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
29.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
29.3	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
29.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
29.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
29.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
29.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
30.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
30.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
31.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
31.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
31.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
31.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
31.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
32	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
32.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
32.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

33.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
33.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
33.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
33.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
34.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
34.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
34.3	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
34.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
34.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
34.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
34.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
35.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
35.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
35.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
35.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
35.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
35.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
36.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
36.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
36.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
37.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
38	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
38.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
38.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
38.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
38.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
38.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
39	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
39.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
39.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
39.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
39.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
39.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
40.1	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
40.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
40.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
40.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
40.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
40.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
41	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
41.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
41.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.5	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
41.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
41.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
41.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
42	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

42.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
42.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
42.4	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
42.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
42.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
42.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
42.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
43	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
43.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.5	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
43.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
43.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
43.9	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
44	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
44.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
44.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
44.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
44.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
44.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
45	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
45.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
45.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
45.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.5	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
45.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
46	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
46.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
46.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.8	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
46.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
47.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
48	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.4	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
48.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.8	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
48.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
49	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
49.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
49.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
49.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
49.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
49.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
50.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
50.7	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
50.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
51	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00



51.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
51.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
51.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
51.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.6	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
51.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
51.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
52	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
52.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
52.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
52.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
52.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
53.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
53.4	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
53.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.6	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
53.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
54.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
54.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
54.3	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
54.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
54.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
54.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
55	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
55.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
rata-rata				0.0012	0.0016	0.0010	16.83	21.99	13.39

Perhitungan tegangan kecepatan 0,976 model *hydroelastic body*

v = 0,976 m/s	Data Digital			Tegangan (v)			Tegangan(N/m <sup>2</sup> )		
	waktu	P1	P2	P3	P1	P2	P3	P1	P2
0.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
0.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.4	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
0.5	2	0	1	0.010	0.000	0.002	135.38	0.00	33.85
0.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
0.9	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
1.1	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
1.2	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
1.3	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
1.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
1.6	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
1.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
1.8	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
1.9	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
2	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
2.1	1	0	1	0.002	0.000	0.002	33.85	0.00	33.85
2.2	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
2.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.4	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
2.5	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
2.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
2.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
2.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.9	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
3.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
3.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
3.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
3.9	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
4	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
4.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	1	0	1	0.002	0.000	0.005	33.85	0.00	67.69
4.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	1	0	1	0.002	0.000	0.002	33.85	0.00	33.85
4.6	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
4.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
4.9	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
5	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
5.1	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
5.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.6	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
5.7	1	0	1	0.002	0.000	0.002	33.85	0.00	33.85
5.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
5.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6	0	1	1	0.000	0.002	0.005	0.00	33.85	67.69

6.1	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
6.2	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
6.3	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
6.4	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
6.5	2	0	1	0.007	0.000	0.002	101.54	0.00	33.85
6.6	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
6.7	0	1	1	0.000	0.005	0.002	0.00	67.69	33.85
6.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.9	1	0	1	0.005	0.000	0.002	67.69	0.00	33.85
7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
7.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.5	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
7.6	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
7.7	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
7.8	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
7.9	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.1	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
8.2	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
8.3	1	2	1	0.002	0.007	0.005	33.85	101.54	67.69
8.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.6	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
8.7	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
8.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
8.9	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.1	0	2	1	0.000	0.007	0.005	0.00	101.54	67.69
9.2	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
9.3	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
9.4	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
9.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.7	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
9.8	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
9.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
10	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
10.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
10.2	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
10.3	2	1	0	0.007	0.002	0.000	101.54	33.85	0.00
10.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
10.6	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
10.7	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
10.8	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
10.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
11.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
11.6	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
11.7	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
11.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
11.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
12	2	2	0	0.007	0.010	0.000	101.54	135.38	0.00
12.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
12.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
12.3	2	2	0	0.007	0.010	0.000	101.54	135.38	0.00
12.4	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
12.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.8	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
12.9	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
13	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
13.1	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
13.2	2	0	1	0.007	0.000	0.005	101.54	0.00	67.69
13.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
13.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.5	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
13.6	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
13.7	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
13.8	2	1	2	0.010	0.005	0.010	135.38	67.69	135.38
13.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
14	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
14.1	2	0	2	0.007	0.000	0.010	101.54	0.00	135.38
14.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
14.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
14.4	1	1	1	0.002	0.005	0.005	33.85	67.69	67.69
14.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
14.6	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
14.7	2	1	0	0.007	0.005	0.000	101.54	67.69	0.00
14.8	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
14.9	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
15	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

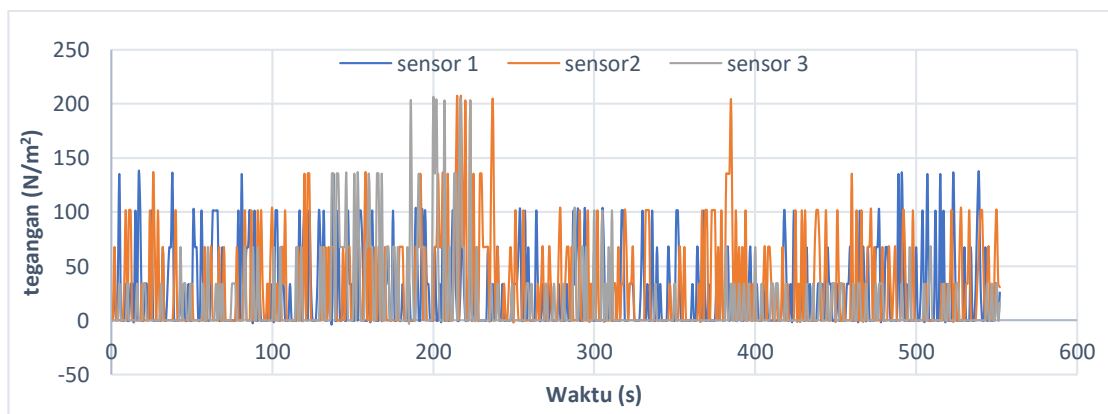
15.1	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
15.2	2	1	0	0.007	0.005	0.000	101.54	67.69	0.00
15.3	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
15.4	2	1	1	0.007	0.005	0.005	101.54	67.69	67.69
15.5	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
15.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
15.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
15.8	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
15.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
16	1	2	2	0.002	0.010	0.010	33.85	135.38	135.38
16.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
16.2	2	1	1	0.007	0.005	0.005	101.54	67.69	67.69
16.3	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
16.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
16.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
16.6	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
16.7	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
16.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
16.9	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
17	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
17.1	1	0	1	0.002	0.000	0.005	33.85	0.00	67.69
17.2	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
17.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.5	2	0	1	0.007	0.000	0.005	101.54	0.00	67.69
17.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
17.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.8	1	0	1	0.002	0.000	0.005	33.85	0.00	67.69
17.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
18	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
18.1	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
18.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
18.5	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
18.6	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
18.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
18.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.9	2	1	0	0.007	0.005	0.000	101.54	67.69	0.00
19	1	1	1	0.005	0.005	0.005	67.69	67.69	67.69
19.1	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
19.2	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
19.3	2	1	1	0.007	0.005	0.005	101.54	67.69	67.69
19.4	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
19.5	2	1	0	0.007	0.005	0.000	101.54	67.69	0.00
19.6	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
19.7	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
19.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
20.1	1	1	2	0.005	0.005	0.010	67.69	67.69	135.38
20.2	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
20.3	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
20.4	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
20.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
20.6	2	2	0	0.007	0.010	0.000	101.54	135.38	0.00
20.7	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
20.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
21	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
21.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
21.2	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
21.3	2	1	2	0.007	0.005	0.010	101.54	67.69	135.38
21.4	1	2	2	0.002	0.010	0.010	33.85	135.38	135.38
21.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
21.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
21.7	1	3	3	0.002	0.015	0.015	33.85	203.07	203.07
21.8	2	2	1	0.007	0.010	0.005	101.54	135.38	67.69
21.9	1	1	1	0.002	0.005	0.005	33.85	67.69	67.69
22	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
22.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.2	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
22.3	1	3	3	0.005	0.015	0.015	67.69	203.07	203.07
22.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.5	1	2	0	0.002	0.010	0.000	33.85	135.38	0.00
22.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.7	1	1	1	0.005	0.005	0.005	67.69	67.69	67.69
22.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.4	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
23.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.6	0	2	1	0.000	0.010	0.002	0.00	135.38	33.85
23.7	1	3	0	0.002	0.015	0.000	33.85	203.07	0.00
23.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23.9	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
24	1	1	1	0.005	0.005	0.002	67.69	67.69	33.85

24.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.3	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
24.4	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
24.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.7	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
24.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.9	1	1	1	0.002	0.002	0.002	33.85	33.85	33.85
25	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
25.1	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
25.2	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
25.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
25.4	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
25.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.6	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
25.7	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
25.8	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
25.9	1	0	1	0.005	0.000	0.002	67.69	0.00	33.85
26	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
26.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.4	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
26.5	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
26.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
26.7	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
26.8	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
26.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
27.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27.3	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
27.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.5	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
27.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.8	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
27.9	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
28	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
28.2	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
28.3	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
28.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28.7	2	0	1	0.007	0.000	0.005	101.54	0.00	67.69
28.8	1	0	2	0.002	0.000	0.007	33.85	0.00	101.54
28.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
29	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
29.1	0	2	1	0.000	0.007	0.002	0.00	101.54	33.85
29.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
29.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
29.4	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
29.5	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
29.6	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
29.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.8	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
29.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30	0	1	2	0.000	0.005	0.007	0.00	67.69	101.54
30.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.2	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
30.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
30.5	2	0	2	0.007	0.000	0.007	101.54	0.00	101.54
30.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
30.7	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
30.8	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
30.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
31	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
31.1	0	0	2	0.000	0.000	0.007	0.00	0.00	101.54
31.2	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
31.3	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
31.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
31.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.7	2	1	0	0.007	0.002	0.000	101.54	33.85	0.00
31.8	2	1	0	0.007	0.002	0.000	101.54	33.85	0.00
31.9	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
32	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
32.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.2	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
32.3	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
32.4	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
32.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.9	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
33	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00

33.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
33.2	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
33.3	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
33.4	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
33.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.6	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
33.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.8	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
33.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
34	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
34.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
34.7	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
34.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
35.1	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
35.2	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
35.3	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
35.4	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
35.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
35.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
36.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
36.5	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
36.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.7	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
36.8	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
36.9	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
37	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
37.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
37.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37.3	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
37.4	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
37.5	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
37.6	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
37.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
37.8	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
37.9	1	2	0	0.005	0.007	0.000	67.69	101.54	0.00
38	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.2	1	2	1	0.002	0.010	0.005	33.85	135.38	67.69
38.3	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
38.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
38.5	1	3	1	0.002	0.015	0.002	33.85	203.07	33.85
38.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
38.7	1	0	1	0.002	0.000	0.002	33.85	0.00	33.85
38.8	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
38.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39	1	1	1	0.002	0.005	0.002	33.85	67.69	33.85
39.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
39.3	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
39.4	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
39.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.6	1	0	1	0.002	0.000	0.002	33.85	0.00	33.85
39.7	1	1	0	0.005	0.002	0.000	67.69	33.85	0.00
39.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
39.9	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
40	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
40.1	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
40.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.4	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
40.5	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
40.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
40.7	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
40.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
40.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
41	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
41.1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
41.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.3	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
41.4	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
41.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.7	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
41.8	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
41.9	1	0	1	0.005	0.000	0.002	67.69	0.00	33.85
42	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00

42.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.2	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
42.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.4	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
42.5	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
42.6	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
42.7	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
42.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.9	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
43	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.1	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
43.2	1	0	1	0.005	0.000	0.002	67.69	0.00	33.85
43.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.4	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
43.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.6	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
43.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
43.8	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
43.9	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
44	1	1	1	0.002	0.005	0.002	33.85	67.69	33.85
44.1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
44.2	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
44.3	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
44.4	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
44.5	1	0	1	0.005	0.000	0.002	67.69	0.00	33.85
44.6	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
44.7	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
44.8	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
44.9	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
45	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.1	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
45.2	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
45.3	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
45.4	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
45.5	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
45.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.7	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
45.8	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
45.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
46	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
46.1	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
46.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.3	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
46.4	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
46.5	2	0	1	0.007	0.000	0.002	101.54	0.00	33.85
46.6	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
46.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
46.8	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
46.9	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
47	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
47.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
47.2	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
47.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
47.5	1	0	1	0.005	0.000	0.002	67.69	0.00	33.85
47.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.7	2	0	1	0.007	0.000	0.002	101.54	0.00	33.85
47.8	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
47.9	1	1	1	0.002	0.005	0.002	33.85	67.69	33.85
48	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
48.3	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
48.4	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
48.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48.6	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
48.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
48.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
48.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
49	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.1	2	1	1	0.010	0.002	0.002	135.38	33.85	33.85
49.2	1	2	0	0.005	0.007	0.000	67.69	101.54	0.00
49.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
49.4	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
49.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
49.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
49.8	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
49.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.3	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
50.4	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
50.5	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
50.6	1	1	0	0.002	0.002	0.000	33.85	33.85	0.00
50.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
50.8	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
50.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
51	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

51.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.2	2	0	0	0.007	0.000	0.000	101.54	0.00	0.00
51.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
51.6	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
51.7	2	0	1	0.007	0.000	0.002	101.54	0.00	33.85
51.8	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
51.9	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
52	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
52.1	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
52.2	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
52.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
52.4	1	1	0	0.005	0.002	0.000	67.69	33.85	0.00
52.5	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
52.6	0	0	1	0.000	0.000	0.002	0.00	0.00	33.85
52.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
52.8	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
52.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.1	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
53.2	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
53.3	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
53.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.7	1	0	0	0.002	0.000	0.000	33.85	0.00	0.00
53.8	2	1	0	0.007	0.002	0.000	101.54	33.85	0.00
53.9	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
54	1	2	0	0.002	0.007	0.000	33.85	101.54	0.00
54.1	0	2	0	0.000	0.007	0.000	0.00	101.54	0.00
54.2	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
54.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
54.4	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
54.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
54.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.7	0	1	1	0.000	0.002	0.002	0.00	33.85	33.85
54.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.9	1	1	0	0.002	0.005	0.000	33.85	67.69	0.00
55	1	2	1	0.002	0.007	0.002	33.85	101.54	33.85
55.1	0	1	0	0.000	0.002	0.000	0.00	33.85	0.00
rata-rata				0.0019	0.0022	0.0012	25.92	30.47	16.52



Grafik nilai tegangan model *hydroelastic body bulbousbow* pada kecepatan 0,976 m/s



Perhitungan nilai tegangan model *hydroelastic body bulbousbow* kecepatan 1,22 m/s

v = 1,22 m/s	Data Digital			Tegangan (v)			Tegangan(N/m <sup>2</sup> )			
	waktu	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3	sensor 1	sensor 2	sensor 3
0.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.2	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
0.3	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
0.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.5	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
0.6	2	0	2	2	0.010	0.000	0.010	135.38	0.00	135.38
0.7	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.8	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
0.9	0	0	3	3	0.000	0.000	0.015	0.00	0.00	203.07
1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.2	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.3	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
1.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.5	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
1.6	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
1.7	1	0	1	1	0.005	0.000	0.005	67.69	0.00	67.69
1.8	0	0	2	2	0.000	0.000	0.010	0.00	0.00	135.38
1.9	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2	0	0	2	2	0.000	0.000	0.010	0.00	0.00	135.38
2.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
2.2	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
2.3	3	0	0	0	0.015	0.000	0.000	203.07	0.00	0.00
2.4	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
2.5	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
2.6	2	0	0	0	0.010	0.000	0.000	135.38	0.00	0.00
2.7	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.8	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
2.9	1	0	2	2	0.005	0.000	0.010	67.69	0.00	135.38
3	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.1	0	0	2	2	0.000	0.000	0.010	0.00	0.00	135.38
3.2	3	0	2	2	0.015	0.000	0.010	203.07	0.00	135.38
3.3	0	0	1	1	0.000	0.000	0.005	0.00	0.00	67.69
3.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.5	3	0	1	1	0.015	0.000	0.005	203.07	0.00	67.69
3.6	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
3.7	3	0	0	0	0.015	0.000	0.000	203.07	0.00	0.00
3.8	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
3.9	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4	2	0	0	0	0.010	0.000	0.000	135.38	0.00	0.00
4.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.2	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.3	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.4	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.5	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
4.6	3	0	0	0	0.015	0.000	0.000	203.07	0.00	0.00
4.7	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
4.8	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
4.9	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
5	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
5.1	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.2	0	1	0	0	0.000	0.005	0.000	0.00	67.69	0.00
5.3	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.4	2	0	0	0	0.010	0.000	0.000	135.38	0.00	0.00
5.5	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
5.6	2	0	0	0	0.010	0.000	0.000	135.38	0.00	0.00
5.7	0	1	1	1	0.000	0.005	0.005	0.00	67.69	67.69
5.8	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
5.9	1	0	0	0	0.005	0.000	0.000	67.69	0.00	0.00
6	0	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

6.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
6.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
6.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
6.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
6.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
6.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
6.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
6.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
7.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
7.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
7.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
7.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
7.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
8.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
8.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
8.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
9.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
9.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
9.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
9.5	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
9.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
9.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
9.8	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
9.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
10.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
10.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
10.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
10.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
10.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
10.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11	3	2	0	0.015	0.010	0.000	203.07	135.38	0.00
11.1	2	2	2	0.010	0.010	0.010	135.38	135.38	135.38
11.2	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
11.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
11.4	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
11.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
11.6	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
11.7	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
11.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
11.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
12	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
12.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
12.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
12.5	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
12.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
12.7	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
12.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
12.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
13.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
13.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
13.4	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
13.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
13.6	2	1	1	0.010	0.005	0.005	135.38	67.69	67.69
13.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
13.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
13.9	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
14	1	1	2	0.005	0.005	0.010	67.69	67.69	135.38
14.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
14.2	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
14.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
14.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
14.6	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
14.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
14.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
14.9	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
15	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69

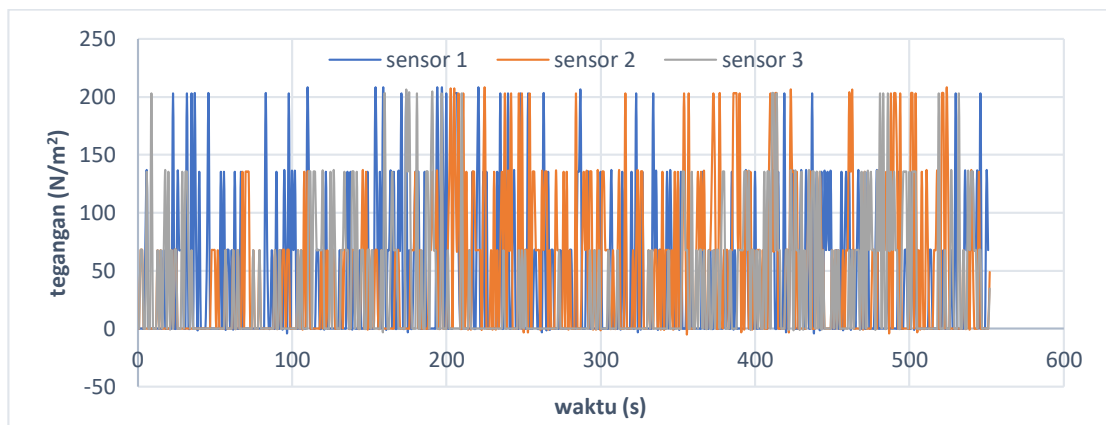
15.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
15.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.4	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
15.5	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
15.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
15.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
15.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
15.9	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
16	2	0	3	0.010	0.000	0.015	135.38	0.00	203.07
16.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
16.2	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
16.4	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
16.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
16.6	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
16.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
16.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
16.9	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
17	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
17.1	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
17.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
17.4	3	0	3	0.015	0.000	0.015	203.07	0.00	203.07
17.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
17.6	1	0	3	0.005	0.000	0.015	67.69	0.00	203.07
17.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
17.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
17.9	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
18	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
18.1	2	1	3	0.010	0.005	0.015	135.38	67.69	203.07
18.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
18.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
18.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
18.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
18.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
18.7	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
18.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
18.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
19	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
19.1	0	2	3	0.000	0.010	0.015	0.00	135.38	203.07
19.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
19.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
19.4	3	2	0	0.015	0.010	0.000	203.07	135.38	0.00
19.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
19.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
19.7	3	2	3	0.015	0.010	0.015	203.07	135.38	203.07
19.8	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
19.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
20.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
20.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
20.3	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
20.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
20.5	3	3	0	0.015	0.015	0.000	203.07	203.07	0.00
20.6	3	2	0	0.015	0.010	0.000	203.07	135.38	0.00
20.7	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
20.8	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
20.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
21.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
21.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
21.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
21.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
21.7	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
21.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
21.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
22	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
22.1	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
22.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
22.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.4	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
22.5	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
22.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
22.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
22.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
23	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.3	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
23.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
23.5	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
23.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
23.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
23.8	2	3	0	0.010	0.015	0.000	135.38	203.07	0.00
23.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24	3	2	0	0.015	0.010	0.000	203.07	135.38	0.00

24.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
24.2	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
24.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
24.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
24.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
24.7	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
24.8	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
24.9	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
25	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
25.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
25.3	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
25.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
25.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
25.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
25.7	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
25.8	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
25.9	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
26	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
26.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
26.3	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
26.4	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
26.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
26.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
26.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
26.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
26.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
27.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
27.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
27.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
27.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
27.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
27.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
27.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
28.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
28.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
28.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
28.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
28.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
28.7	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
28.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
28.9	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
29	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
29.1	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
29.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
29.3	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
29.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
29.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
29.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
29.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
29.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
30	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
30.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
30.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
30.3	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
30.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
30.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
30.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
30.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
30.8	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
30.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
31.2	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
31.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
31.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.6	2	3	0	0.010	0.015	0.000	135.38	203.07	0.00
31.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
31.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
32.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
32.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.3	3	1	0	0.015	0.005	0.000	203.07	67.69	0.00
32.4	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
32.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
32.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
32.7	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
32.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
32.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

33.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
33.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
33.4	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
33.5	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
33.6	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
33.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
33.8	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
33.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
34	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
34.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
34.3	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
34.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
34.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
34.6	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
34.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
34.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
34.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
35	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
35.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
35.2	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
35.3	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
35.4	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
35.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
35.6	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
35.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
35.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
35.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
36	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
36.3	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
36.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
36.5	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
36.6	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
36.7	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
36.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
36.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
37	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
37.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
37.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
37.3	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
37.4	1	2	0	0.005	0.010	0.000	67.69	135.38	0.00
37.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
37.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
37.7	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
37.8	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
37.9	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
38	1	1	2	0.005	0.005	0.010	67.69	67.69	135.38
38.1	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
38.2	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
38.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
38.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
38.5	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
38.6	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
38.7	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
38.8	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
38.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
39	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
39.1	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
39.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
39.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
39.4	2	2	2	0.010	0.010	0.010	135.38	135.38	135.38
39.5	1	2	1	0.005	0.010	0.005	67.69	135.38	67.69
39.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
39.7	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
39.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
39.9	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
40	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
40.1	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
40.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
40.3	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
40.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.5	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
40.6	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
40.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
40.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
40.9	2	2	2	0.010	0.010	0.010	135.38	135.38	135.38
41	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
41.1	1	2	3	0.005	0.010	0.015	67.69	135.38	203.07
41.2	2	1	3	0.010	0.005	0.015	135.38	67.69	203.07
41.3	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
41.4	0	3	3	0.000	0.015	0.015	0.00	203.07	203.07
41.5	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
41.6	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
41.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
41.9	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
42	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69

42.1	1	1	1	0.005	0.005	0.005	67.69	67.69	67.69
42.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
42.3	2	3	2	0.010	0.015	0.010	135.38	203.07	135.38
42.4	1	2	1	0.005	0.010	0.005	67.69	135.38	67.69
42.5	2	2	0	0.010	0.010	0.000	135.38	135.38	0.00
42.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
42.7	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
42.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
42.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
43	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
43.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
43.2	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
43.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
43.4	1	1	1	0.005	0.005	0.005	67.69	67.69	67.69
43.5	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
43.6	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
43.7	3	0	2	0.015	0.000	0.010	203.07	0.00	135.38
43.8	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
43.9	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
44	2	1	2	0.010	0.005	0.010	135.38	67.69	135.38
44.1	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
44.2	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
44.3	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
44.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
44.5	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
44.6	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
44.7	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
44.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
44.9	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
45	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
45.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.2	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
45.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
45.4	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
45.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
45.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
45.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
45.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
45.9	2	1	0	0.010	0.005	0.000	135.38	67.69	0.00
46	1	1	0	0.005	0.005	0.000	67.69	67.69	0.00
46.1	2	3	1	0.010	0.015	0.005	135.38	203.07	67.69
46.2	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
46.3	1	3	1	0.005	0.015	0.005	67.69	203.07	67.69
46.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
46.5	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
46.6	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
46.7	2	0	1	0.010	0.000	0.005	135.38	0.00	67.69
46.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
46.9	0	1	2	0.000	0.005	0.010	0.00	67.69	135.38
47	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.1	0	2	2	0.000	0.010	0.010	0.00	135.38	135.38
47.2	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
47.3	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
47.4	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
47.5	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
47.6	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
47.7	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
47.8	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
47.9	2	0	2	0.010	0.000	0.010	135.38	0.00	135.38
48	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
48.1	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
48.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
48.3	0	1	3	0.000	0.005	0.015	0.00	67.69	203.07
48.4	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
48.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
48.6	1	1	3	0.005	0.005	0.015	67.69	67.69	203.07
48.7	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
48.8	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
48.9	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
49	0	3	2	0.000	0.015	0.010	0.00	203.07	135.38
49.1	0	3	1	0.000	0.015	0.005	0.00	203.07	67.69
49.2	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
49.3	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
49.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
49.5	0	1	0	0.000	0.000	0.005	0.00	0.00	67.69
49.6	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
49.7	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
49.8	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
49.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
50.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
50.2	2	3	2	0.010	0.015	0.010	135.38	203.07	135.38
50.3	0	0	2	0.000	0.000	0.010	0.00	0.00	135.38
50.4	1	3	2	0.005	0.015	0.010	67.69	203.07	135.38
50.5	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
50.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
50.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
50.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
50.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00

51.1	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
51.2	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
51.3	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
51.4	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
51.5	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
51.6	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
51.7	0	1	0	0.000	0.005	0.000	0.00	67.69	0.00
51.8	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
51.9	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
52	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.1	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
52.2	1	3	0	0.005	0.015	0.000	67.69	203.07	0.00
52.3	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
52.4	0	3	0	0.000	0.015	0.000	0.00	203.07	0.00
52.5	0	2	0	0.000	0.010	0.000	0.00	135.38	0.00
52.6	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
52.7	1	0	2	0.005	0.000	0.010	67.69	0.00	135.38
52.8	0	0	1	0.000	0.000	0.005	0.00	0.00	67.69
52.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53	3	0	0	0.015	0.000	0.000	203.07	0.00	0.00
53.1	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.2	0	0	3	0.000	0.000	0.015	0.00	0.00	203.07
53.3	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.4	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
53.5	0	1	1	0.000	0.005	0.005	0.00	67.69	67.69
53.6	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
53.7	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
53.8	1	1	2	0.005	0.005	0.010	67.69	67.69	135.38
53.9	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
54	1	2	2	0.005	0.010	0.010	67.69	135.38	135.38
54.1	2	1	2	0.010	0.005	0.010	135.38	67.69	135.38
54.2	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
54.3	1	0	1	0.005	0.000	0.005	67.69	0.00	67.69
54.4	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
54.5	0	2	1	0.000	0.010	0.005	0.00	135.38	67.69
54.6	3	0	1	0.015	0.000	0.005	203.07	0.00	67.69
54.7	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.8	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
54.9	0	0	0	0.000	0.000	0.000	0.00	0.00	0.00
55	2	0	0	0.010	0.000	0.000	135.38	0.00	0.00
55.1	1	0	0	0.005	0.000	0.000	67.69	0.00	0.00
rata-rata				0.0030	0.0035	0.0025	41.52	48.77	34.52



Grafik nilai tegangan model *hydroelasticbody bulbousbow* pada kecepatan 1,22 m/s

No	Nama Dosen	Poin Revisi	Keterangan
1	Ir.Luckman Bochary, MT	Tambahkan materi tentang bulbousbow pada tinjauan pustaka	Halaman 11
		Jenis data terbalik	Data primer dan data sekunder terbalik pada halaman 18
2	Dr.Eng. Suandar Baso, ST., MT	Model <i>rigid &amp; hydroelastic</i> dipindahkan ke pembuatan model pada flowchart	gambar 39, halaman 45
		Ubah gambar desain <i>hydroelastic</i> ke gambar model <i>hydroelastic</i> dan tambahkan keterangan instalasi sensor <i>piezo</i>	Gambar 43 halaman 46
3	Ir Hj. Rosmani, MT	Lokasi dan waktu penelitian disambung	Lokasi dan waktu penelitian disambung halaman 18
		Tambahkan ukuran model	Halaman 20.
		Jangan menggunakan kata perintah pada prosedur pengujian	Halaman 38.
		Hilangkan gambar sensor <i>piezo</i> disepanjang lambung kapal, cukup fokus pada 3 sensor <i>piezo</i> dibackbone	Halaman 47
		Perlihatkan kompartemen pada gambar model <i>hydroelastic body</i>	Gambar 41. Halaman 47
4	Dian Eka Anggreani, ST., MT	Tambahkan garis pada diagram alur penelitian	Berikan garis hubung disetiap bagian diagram alur penelitian gambar 39, halaman 45
		Keterangan sensor pada gambar grafik nilai tegangan model <i>hydroelastic body</i>	Sensor 1, sensor 2, sensor 3 pada gambar 52, halaman 58