

Appendix

The appendix contains information regarding to the processing of tests' results presented in the work. Three series of tests with people were carried out during the work and discussed in Sections 4.4, 4.5 and Subsection 5.1.2. The results of the tests are presented in the form of tables.

1. Processing of measuring results for the tests presented in Section 4.4

Under research was appearance of "effective" colour moiré patterns by superimposition of digital gratings with dominant (A) and multiplicative (B) relations. The detailed description of the experiment initial conditions is given in Section 4.4. The results of the tests are presented below in the form of tables. Reference designations in the table are the next: "1" - perception of "effective" colour moiré pattern, "0" - absence of "effective" colour moiré pattern. In the tables below the next symbols are used: COL&COL - superimposition of two bicolour gratings with opposite order of colour bars; COL&COL*- superimposition of two bicolour gratings with the same order of colour bars; BW&COL - superimposition of projecting binary and analyzing bicolour grating; COL&BW - superimposition of analyzing binary and projecting bicolour grating.

A. Perception of moiré pattern generated by dominant relation between gratings

N of participants	Type of gratings overlapping			
	COL&COL*	COL&COL	BW&COL	COL&BW
1	1	1	0	1
2	1	1	0	1
3	1	1	0	1
4	1	0	0	1
5	1	1	0	1
6	0	1	0	1
7	1	1	0	1
8	1	1	0	1
9	1	1	0	1
10	1	1	0	1
11	1	1	1	1
12	1	0	0	0
13	1	1	1	1
14	1	1	0	1
15	1	1	0	1
16	1	1	0	1
17	0	1	0	1
18	1	1	0	1
19	1	1	0	0
20	1	1	1	1
21	1	1	0	1
22	1	1	0	1
23	1	1	0	1
24	1	1	0	1
25	1	1	0	1
26	1	1	0	1
27	1	1	0	1
28	0	1	0	1
29	1	1	0	1
30	1	1	0	1
31	1	1	0	1
32	1	1	0	1
33	1	1	0	1
34	1	1	0	1
35	0	1	0	1
36	1	1	0	1
37	1	1	0	1
38	1	1	0	1
39	1	1	1	1
40	1	1	0	1
41	1	1	0	1
42	1	1	0	1
43	1	1	0	1
44	1	1	0	1
45	1	0	0	1
46	1	1	0	1
47	1	1	0	1
48	1	1	0	1
49	1	1	0	1
50	1	1	0	1

Percentage of the “effective” colour moiré patterns perception for different types of gratings’ superimposition is the next:

Perception of "effective" colour moiré pattern (%)			
COL&COL*	COL&COL	BW&COL	COL&BW
92%	94%	8%	96%

B. Perception of moiré pattern generated by multiplicative relation between gratings

N of participants	Type of gratings overlapping			
	COL&COL	COL&COL*	BW&COL	COL&BW
1	0	1	1	0
2	0	1	1	1
3	0	1	1	1
4	0	1	1	1
5	0	1	1	1
6	0	1	1	1
7	0	1	1	1
8	0	1	1	1
9	0	1	1	1
10	0	0	1	1
11	0	1	1	1
12	0	1	1	1
13	0	1	1	1
14	0	1	1	1
15	0	1	1	1
16	0	1	1	0
17	0	1	1	1
18	0	1	1	1
19	0	1	1	1
20	1	1	1	1
21	0	1	1	1
22	0	1	1	1
23	0	1	1	1
24	0	1	1	1
25	0	1	1	1
26	1	1	1	1
27	0	1	1	1
28	0	1	1	1
29	0	1	1	1
30	0	1	1	1
31	0	1	1	1
32	0	1	1	1
33	0	1	1	1
34	0	1	1	1
35	0	1	1	0
36	0	1	1	1
37	0	1	1	1
38	0	1	1	1
39	0	0	1	1
40	0	1	1	1
41	0	1	1	1
42	0	1	1	1
43	0	1	1	1
44	0	1	1	0
45	0	1	1	1
46	0	1	1	1
47	0	1	1	1
48	0	0	1	1
49	0	1	1	1
50	0	1	0	1

Percentage of the “effective” colour moiré patterns perception for different types of gratings’ superimposition is the next:

Perception of "effective" colour moiré pattern (%)			
COL&COL*	COL&COL	BW&COL	COL&BW
4%	94%	98%	92%

2. Processing of measuring results for the tests presented in Section 4.5

The aim of the tests was investigation of colour moiré patterns perception under different conditions by subjects. The participants of the test were asked to determine:

- A. Patterns with “effective” and “ineffective” colour moiré fringes.
- B. Combination of gratings that gives “effective” colour moiré fringes with the biggest colour difference.
- C. Colour bars combination that gives “effective” colour moiré fringes the biggest colour difference.

In the tables below the next symbols are used: COL&COL - superimposition of two bicolour gratings with opposite order of colour bars; COL&COL* - superimposition of two bicolour gratings with the same order of colour bars; BW&COL - superimposition of projecting binary and analyzing bicolour grating; COL&BW - superimposition of analyzing binary and projecting bicolour grating.

The detailed description of the experiment initial conditions is given in Section 4.5. The results of the tests are presented below in the form of tables.

A. By which combination of gratings do you see “effective” colour moiré images?

N of participants	Type of gratings overlapping		
	COL&COL*	COL&COL	BW&COL
1	0	1	1
2	0	0	1
3	0	1	1
4	0	1	1
5	0	1	1
6	0	1	0
7	0	1	1
8	0	1	1
9	1	1	1
10	0	1	1
11	0	1	1
12	0	0	1
13	0	1	1
14	0	1	1
15	0	1	1
16	0	1	1
17	0	1	1
18	0	1	1
19	0	1	1
20	0	1	1
21	0	1	1
22	0	0	1
23	0	1	1
24	1	1	1
25	0	1	1
26	0	1	1
27	0	1	1
28	0	1	1
29	0	1	1
30	0	1	1
31	0	1	1
32	0	1	1
33	0	1	1
34	0	1	1
35	0	0	1
36	0	1	1
37	0	1	1
38	0	1	1
39	0	1	1
40	0	1	1
41	0	1	0
42	0	1	1
43	0	1	1
44	0	1	1
45	0	1	1
46	0	1	1
47	0	1	1
48	0	1	1
49	0	0	0
50	0	1	1

where “1” - perception of “effective” colour moiré pattern, “0” - absence of “effective” colour moiré pattern.

Percentage of the “effective” colour moiré patterns perception for different types of gratings’ superimposition is the next:

Perception of "effective" colour moiré pattern (%)		
COL&COL*	COL&COL	BW&COL
4%	90%	94%

B. Which combination of gratings would you chose for formation of the “effective” colour moiré patterns with the biggest colour difference?

N of participants	Type of gratings overlapping	
	COL&COL	BW&COL
1	I	-
2	I	-
3	I	-
4	I	-
5	I	-
6	I	-
7	-	I
8	-	I
9	-	I
10	I	-
11	-	I
12	I	-
13	-	I
14	-	-
15	I	-
16	-	I
17	-	I
18	I	-
19	I	-
20	-	I
21	I	-
22	I	-
23	I	-
24	-	I
25	I	-
26	-	I
27	I	-
28	-	I
29	I	-
30	I	-
31	-	I
32	-	I
33	I	-
34	-	I
35	-	I
36	I	-
37	I	-
38	-	I
39	I	-
40	I	-
41	I	-
42	-	I
43	I	-
44	-	I
45	I	I
46	I	-
47	I	-
48	I	-
49	I	-
50	I	-

where “I” – chosen “effective” colour moiré pattern with the biggest colour difference.

Percentage of the “effective” colour moiré patterns perception for different types of gratings’ superimposition is the next:

Perception of "effective" colour moiré pattern with the biggest colour difference (%)	
COL&COL	BW&COL
62%	38%

C. Which combination of colour bars in the gratings would you chose for formation of the “effective” colour moiré pattern with the biggest colour difference?

N of participants	Combination of colour bars in grating					
	R-B	G-R	B-G	C-M	M-Y	Y-C
1	I	-	-	-	-	-
2	I	-	-	-	-	-
3	-	I	-	-	-	-
4	-	-	-	I	-	-
5	-	I	-	-	-	-
6	-	-	I	-	-	-
7	I	-	-	-	-	-
8	-	-	-	-	I	-
9	-	I	-	-	-	-
10	-	I	-	-	-	-
11	-	-	I	-	-	-
12	I	-	-	-	-	-
13	-	-	-	-	I	-
14	I	-	-	-	-	-
15	-	I	-	-	-	-
16	I	-	-	-	-	-
17	I	-	-	-	-	-
18	-	-	I	-	-	-
19	-	-	-	-	I	-
20	I	-	-	-	-	-
21	-	I	-	-	-	-
22	-	-	-	-	-	-
23	I	-	-	-	-	-
24	-	I	-	-	-	-
25	-	-	I	-	-	-
26	I	-	-	-	-	-
27	-	I	-	-	-	-
28	-	I	-	-	-	-
29	I	-	-	-	-	-
30	I	-	-	-	-	-
31	-	I	-	-	-	-
32	-	-	-	-	I	-
33	-	I	-	-	-	-
34	-	-	I	-	-	-
35	I	-	-	-	-	-
36	-	-	I	-	-	-
37	-	I	-	-	-	-
38	-	-	-	I	-	-
39	-	-	I	-	-	-
40	I	-	-	-	-	-
41	I	-	-	-	-	-
42	I	-	I	-	-	-
43	-	I	-	-	-	-
44	-	I	-	-	-	-
45	I	-	-	-	-	-
46	I	-	-	-	-	-
47	I	-	-	-	-	-
48	-	I	-	-	-	-
49	I	-	-	-	-	-
50	I	-	-	-	-	-

where “I” – chosen combination of colour bars.

Percentage of the “effective” colour moiré patterns perception for different types of gratings’ superimposition is the next:

Selection of colour bars’ combination for "effective" colour moiré pattern formation (%)					
R-B	G-R	B-G	C-M	M-Y	Y-C
40%	30%	16%	4%	8%	2%

3. Processing of measuring results for the tests presented in Subsection 5.1.2

The series of tests was carried out to determine how the inclination angle and the change of ration between the frequencies and of overlapping gratings influences on the human perception of moiré effect. Three types of moiré effect were proposed for testing: classical moiré effect, "effective" colour moiré effect generated by binary and bicolour colour gratings and two identical bicolour gratings. The detailed description of the experiments initial conditions is given in Subsection 5.1.2. The probability of moiré fringes perception was calculated for three cases of gratings overlapping:

$$P(x) = \frac{\sum_{n=1} x_n}{n} \quad (1)$$

where n - number of participants, x - perception ("1") or absence ("0") of moiré fringes, then $P(x)=1$ - sure perception of moiré fringes and $P(x)=0$ sure absence of moiré fringes. In the tables below the next symbols are used: "1" - perception of moiré fringes, "0" - absence of moiré fringes. The results of the tests (**Test N1** and **Test N2**) are presented below in the form of tables.

Test № 1: Dependence of moiré fringes' perception from the ratio between the gratings' frequencies for cases when two binary gratings (A), binary and bicolour gratings (B), two bicolour gratings (C) are superimposed.

A. The ratio between the overlapping binary gratings frequencies - 10/9 - 24/23 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies														
	10/9	11/10	12/11	13/12	14/13	15/14	16/15	17/16	18/17	19/18	20/19	21/20	22/21	23/22	24/23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

17	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P(x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.18

A. The ratio between the overlapping binary gratings frequencies - 25/24 - 39/38 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies														
	25/24	26/25	27/26	28/27	29/28	30/29	31/30	32/31	33/32	34/33	35/34	36/35	37/36	38/37	39/38
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
5	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1
19	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
23	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
25	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
26	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
29	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
32	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
36	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
37	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
40	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
43	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
44	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
P(x)	0.42	0.68	0.84	1.00	0.98	0.98	0.98	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00

A. The ratio between the overlapping binary gratings frequencies – 40/39 – 50/49 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies										
	40/39	41/40	42/41	43/42	44/43	45/44	46/45	47/46	48/47	49/48	50/49
1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1
3	0	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	0	1
9	1	1	1	1	1	1	1	1	1	1	1

10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1	1	1	1	1
39	1	1	1	1	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1	1	1	0	1
47	1	1	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1	1	1	1
P(x)	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	1.00

B. The ratio between the overlapping binary and bicolour gratings frequencies - 10/9 - 24/23 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies														
	10/9	11/10	12/11	13/12	14/13	15/14	16/15	17/16	18/17	19/18	20/19	21/20	22/21	23/22	24/23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P(x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

B. The ratio between the overlapping binary and bicolour gratings frequencies – 25/24 – 39/38 per 100 mm.

N of participants	Ration between gratings' frequencies														
	25/24	26/25	27/26	28/27	29/28	30/29	31/30	32/31	33/32	34/33	35/34	36/35	37/36	38/37	39/38
1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
2	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
4	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

48	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P(x)	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.28	0.28	0.30	0.30	0.34	0.34

B. The ratio between the overlapping binary and bicolour gratings frequencies - 40/39 - 50/49 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies										
	40/39	41/40	42/41	43/42	44/43	45/44	46/45	47/46	48/47	49/48	50/49
1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	0	1
4	1	1	1	1	1	1	1	1	1	1	1
5	0	0	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1
7	0	0	0	1	1	1	1	1	1	1	1
8	0	0	0	1	1	1	1	1	1	1	1
9	0	0	0	1	1	1	1	1	1	1	1
10	0	1	1	1	1	1	1	1	1	1	1
11	0	0	0	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	0	0	0	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	0	0	0	1	1	1	1	1	1	1	1
19	0	0	0	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	0	0	0	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	0	0	0	1	1	1	1	1	1	1	1
24	0	0	0	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1
26	0	0	0	1	1	1	1	1	1	1	1
27	0	0	0	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1
29	0	0	0	1	1	1	1	1	1	1	1
30	0	0	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1
32	0	0	0	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1	1	1
34	0	0	0	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1	1	1	1	1
36	0	0	0	1	1	1	1	1	1	1	1
37	0	0	0	1	1	1	1	1	1	1	1
38	0	0	0	1	1	1	1	1	1	1	1
39	0	0	0	1	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1

42	0	0	0	1	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1	1	1	1	1
44	0	1	1	1	1	1	1	1	1	1	1
45	0	0	0	1	1	1	1	1	1	1	1
46	0	0	1	1	1	1	1	1	1	1	1
47	0	0	0	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1
49	0	0	0	1	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1	1	1	1
P(x)	0.44	0.48	0.54	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00

C. The ratio between two overlapping bicolour gratings frequencies - 10/9 - 24/23 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies														
	10/9	11/10	12/11	13/12	14/13	15/14	16/15	17/16	18/17	19/18	20/19	21/20	22/21	23/22	24/23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P(x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C. The ratio between two overlapping bicolour gratings frequencies - 25/24 - 39/38 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies														
	25/24	26/25	27/26	28/27	29/28	30/29	31/30	32/31	33/32	34/33	35/34	36/35	37/36	38/37	39/38
1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
2	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
3	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
4	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
6	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1
7	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
11	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
12	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
13	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
14	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
16	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
17	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
18	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
19	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
20	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1
21	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
22	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
23	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1
26	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
27	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
28	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

30	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
33	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
34	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
35	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
38	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
39	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
41	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
42	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
45	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
47	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
48	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
50	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
P(x)	0.00	0.00	0.04	0.14	0.32	0.44	0.32	0.34	0.38	0.42	0.46	0.62	0.74	0.82	0.86

C. The ratio between two overlapping bicolour gratings frequencies - 40/39 - 50/49 pair lines per 100 mm.

N of participants	Ration between gratings' frequencies										
	40/39	41/40	42/41	43/42	44/43	45/44	46/45	47/46	48/47	49/48	50/49
1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1
8	0	0	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	0	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1

24	0	0	0	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1
29	0	0	0	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1
31	0	0	0	1	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1	1	1	1	1
36	0	0	0	1	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1	1	1	1	1
39	0	0	0	1	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1	1	1	1	1
43	0	0	0	0	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1	1	1	1
P(x)	0.86	0.86	0.88	0.98	1.00	0.98	1.00	1.00	1.00	1.00	1.00

Test № 2: Dependence of moiré fringes 'perception from the inclination angle of gratings' for cases when: two binary gratings (A), binary and bicolour gratings (B), two bicolour gratings (C) are overlapped.

A. The angle of two binary gratings' inclination angle in interval from 2 – 28 degrees.

N of participants	Angle of gratings' tilt (°)														
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
6	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

13	0	1	1	1	1	1	1	1	1	1	1	1	1	1
14	0	1	1	1	1	1	1	1	1	1	1	1	1	1
15	0	1	1	1	1	1	1	1	1	1	1	1	1	1
16	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	0	1	1	1	1	1	1	1	1	1	1	1	1	1
18	0	1	1	1	1	1	1	1	1	1	1	1	1	1
19	0	1	1	1	1	1	1	1	1	1	1	1	1	1
20	0	1	1	1	1	1	1	1	1	1	1	1	1	1
21	0	1	1	1	1	1	1	1	1	1	1	1	1	1
22	0	1	1	1	1	1	1	1	1	1	1	1	1	1
23	0	0	1	1	1	1	1	1	1	1	1	1	1	1
24	0	1	1	1	1	1	1	1	1	1	1	1	1	1
25	0	1	1	1	1	1	1	1	1	1	1	1	1	1
26	0	1	1	1	1	1	1	1	1	1	1	1	1	1
27	0	1	1	1	1	1	1	1	1	1	1	1	1	1
28	0	1	1	1	1	1	1	1	1	1	1	1	1	1
29	0	1	1	1	1	1	1	1	1	1	1	1	1	1
30	0	1	1	1	1	1	1	1	1	1	1	1	1	1
31	0	1	1	1	1	1	1	1	1	1	1	1	1	1
32	0	1	1	1	1	1	1	1	1	1	1	1	1	1
33	0	1	1	1	1	1	1	1	1	1	1	1	1	1
34	0	1	1	1	1	1	1	1	1	1	1	1	1	1
35	0	1	1	1	1	1	1	1	1	1	1	1	1	1
36	0	1	1	1	1	1	1	1	1	1	1	1	1	1
37	0	1	1	1	1	1	1	1	1	1	1	1	1	1
38	0	1	1	1	1	1	1	1	1	1	1	1	1	1
39	0	1	1	1	1	1	1	1	1	1	1	1	1	1
40	0	1	1	1	1	1	1	1	1	1	1	1	1	1
41	0	1	1	1	1	1	1	1	1	1	1	1	1	1
42	0	0	1	1	1	1	1	1	1	1	1	1	1	1
43	0	1	1	1	1	1	1	1	1	1	1	1	1	1
44	0	1	1	1	1	1	1	1	1	1	1	1	1	1
45	0	1	1	1	1	1	1	1	1	1	1	1	1	1
46	0	0	0	1	1	1	1	1	1	1	1	1	1	1
47	0	1	1	1	1	1	1	1	1	1	1	1	1	1
48	0	1	1	1	1	1	1	1	1	1	1	1	1	1
49	0	1	1	1	1	1	1	1	1	1	1	1	1	1
50	0	0	1	1	1	1	1	1	1	1	1	1	1	1
P(x)	0.00	0.90	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

A. The angle of two binary gratings' inclination angle in interval from 30 – 60 degrees.

N of participants	Angle of gratings' tilt (°)															
	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
4	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
5	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
6	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
7	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
8	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0

9	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
10	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
11	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
12	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
13	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
14	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
15	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
16	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
17	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
18	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
19	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
20	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
21	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
22	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
23	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
24	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
25	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
26	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
27	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
28	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
29	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
30	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
31	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
32	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0
33	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
34	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
35	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
36	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
37	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
38	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
39	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
40	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
41	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
42	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
43	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
44	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
45	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
46	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
47	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
48	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
49	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
50	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
P(x)	1.00	1.00	1.00	1.00	1.00	0.96	0.14	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00

B. The angle of binary and bicolour gratings' inclination angle in interval from 2 – 28 degrees.

N of participants	Angle of gratings' tilt (°)														
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0
2	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0
3	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0

4	0	1	1	1	1	1	1	1	1	0	0	0	0	0
5	0	0	1	1	1	1	1	1	1	0	0	0	0	0
6	0	1	1	1	1	1	1	1	1	0	0	0	0	0
7	0	1	1	1	1	1	1	1	1	0	0	0	0	0
8	0	1	1	1	1	1	1	1	1	1	1	0	0	1
9	0	1	1	1	1	1	1	1	1	0	0	0	0	0
10	0	1	1	1	1	1	1	1	1	0	0	0	0	0
11	0	1	1	1	1	1	1	1	1	0	0	0	0	0
12	0	1	1	1	1	1	1	1	1	0	0	0	0	0
13	0	1	1	1	1	1	1	1	1	1	0	0	0	0
14	0	1	1	1	1	1	1	1	1	1	0	0	0	0
15	0	1	1	1	1	1	1	1	1	1	0	0	0	0
16	0	1	1	1	1	1	1	1	1	0	0	0	0	0
17	0	1	1	1	1	1	1	1	1	0	0	0	0	0
18	0	1	1	1	1	1	1	1	0	0	0	0	0	0
19	0	1	1	1	1	1	1	1	1	0	0	0	0	0
20	0	1	1	1	1	1	1	1	1	1	0	0	0	0
21	0	1	1	1	1	1	1	1	1	1	0	0	0	0
22	0	1	1	1	1	1	1	1	1	1	0	0	0	0
23	0	0	1	1	1	1	1	1	1	0	0	0	0	0
24	0	1	1	1	1	1	1	1	1	0	0	0	0	0
25	0	1	1	1	1	1	1	1	1	0	0	0	0	0
26	0	1	1	1	1	1	1	1	1	0	0	0	0	0
27	0	1	1	1	1	1	1	1	1	1	0	0	0	0
28	0	1	1	1	1	1	1	1	1	1	0	0	0	0
29	0	1	1	1	1	1	1	1	1	1	1	1	0	0
30	0	1	1	1	1	1	1	1	1	0	0	0	0	0
31	0	1	1	1	1	1	1	1	1	0	0	0	0	0
32	0	1	1	1	1	1	1	1	1	0	0	0	0	0
33	0	1	1	1	1	1	1	1	1	0	0	0	0	0
34	0	1	1	1	1	1	1	1	1	0	0	0	0	0
35	0	1	1	1	1	1	1	1	1	1	0	0	0	0
36	0	1	1	1	1	1	1	1	1	1	0	0	0	0
37	0	1	1	1	1	1	1	1	1	0	0	0	0	0
38	0	1	1	1	1	1	1	1	1	0	0	0	0	0
39	0	1	1	1	1	1	1	1	1	0	0	0	0	0
40	0	1	1	1	1	1	1	1	1	1	0	0	0	0
41	0	1	1	1	1	1	1	1	1	1	0	0	0	0
42	0	1	1	1	1	1	1	1	1	0	0	0	0	0
43	0	1	1	1	1	1	1	1	1	0	0	0	0	0
44	0	1	1	1	1	1	1	1	1	0	0	0	0	0
45	0	1	1	1	1	1	1	1	1	0	0	0	0	0
46	0	0	0	1	1	1	1	1	1	0	0	0	0	0
47	0	1	1	1	1	1	1	1	1	1	1	0	0	0
48	0	1	1	1	1	1	1	1	1	0	0	0	0	0
49	0	1	1	1	1	1	1	1	1	0	0	0	0	0
50	0	0	1	1	1	1	1	1	1	0	0	0	0	0
P(x)	0.00	0.92	0.98	1.00	1.00	1.00	1.00	1.00	0.96	0.34	0.06	0.02	0.00	0.00

B. The angle of binary and bicolour gratings' inclination angle in interval from 30 – 60 degrees.

N of participants	Angle of gratings' tilt (°)															
	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P(x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C. The angle of two bicolour gratings' inclination angle in interval from 2 – 28 degrees.

N of participants	Angle of gratings' tilt (°)														
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
2	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
3	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
4	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
5	0	0	1	1	1	1	1	1	1	1	1	1	0	0	
6	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
7	0	0	1	1	1	1	1	1	1	1	1	1	0	0	
8	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
9	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
10	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
11	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
12	0	1	1	1	1	1	1	1	1	1	1	0	0	0	
13	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
14	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
15	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
16	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
17	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
18	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
19	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
20	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
21	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
22	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
23	0	0	1	1	1	1	1	1	1	1	1	1	1	0	
24	0	1	1	1	1	1	1	1	1	1	1	0	1	0	
25	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
26	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
27	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
28	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
29	0	0	1	1	1	1	1	1	1	1	1	1	0	0	
30	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
31	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
32	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
33	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
34	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
35	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
36	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
37	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
38	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
39	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
40	0	1	1	1	1	1	1	1	1	1	1	1	1	0	
41	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
42	0	1	1	1	1	1	1	1	1	1	1	1	0	0	
43	0	1	1	1	1	1	1	1	1	1	1	1	0	0	

44	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
45	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
46	0	0	0	1	1	0	1	1	1	1	1	1	0	0	0
47	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
48	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
49	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
50	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
P(x)	0.00	0.86	0.98	1.00	1.00	0.98	1.00	1.00	1.00	1.00	1.00	0.94	0.18	0.00	0.02

C. The angle of two bicolour gratings' inclination angle in interval from 30 - 60 degrees.

N of participants	Angle of gratings' tilt (°)															
	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P(x)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00