

corners

targets\twists	0	1	2	3	4	5	6	7 by # targets	targets	twists as cycles
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
1	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1	0.00
2	0.00	0.00	0.02	0.03	0.03	0.01	0.00	0.00	2	0.00
3	0.01	0.05	0.16	0.22	0.12	0.01	0.00	0.00	3	0.01
4	0.08	0.51	1.05	0.79	0.09	0.00	0.00	0.00	4	0.09
5	0.78	3.28	3.78	0.67	0.00	0.00	0.00	0.00	5	0.83
6	5.07	11.96	3.68	0.08	0.00	0.00	0.00	0.00	6	5.59
7	18.74	12.89	0.81	0.00	0.00	0.00	0.00	0.00	7	22.19
8	21.88	3.94	0.00	0.00	0.00	0.00	0.00	0.00	8	34.92
9	8.28	0.17	0.00	0.00	0.00	0.00	0.00	0.00	9	25.18
10	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	9.22
by # twists	55.62	32.80	9.51	1.80	0.25	0.03	0.00	0.00	100.00	

targets\twists	0	1	2	3	4	5	6	7
0	1	13	84	280	560	672	448	128
1	21	252	1,260	3,360	5,040	4,032	1,344	0
2	378	3,780	15,120	30,240	30,240	12,096	0	0
3	5,859	47,250	143,640	196,560	105,840	6,048	0	0
4	72,765	446,040	929,880	695,520	75,600	0	0	0
5	686,070	2,891,700	3,333,960	589,680	0	0	0	0
6	4,468,527	10,542,798	3,245,508	68,040	0	0	0	0
7	16,528,617	11,369,484	714,420	0	0	0	0	0
8	19,292,256	3,470,040	0	0	0	0	0	0
9	7,302,393	153,090	0	0	0	0	0	0
10	688,905	0	0	0	0	0	0	0

88,179,840

(buffer never counts as twisted)

corners - parity

targets\twists	0	1	2	3	4	5	6	7 by # targets	targets	twists as cycles
1	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	1	0.00
3	0.01	0.11	0.33	0.45	0.24	0.01	0.00	0.00	3	0.01
5	1.56	6.56	7.56	1.34	0.00	0.00	0.00	0.00	5	1.67
7	37.49	25.79	1.62	0.00	0.00	0.00	0.00	0.00	7	44.38
9	16.56	0.35	0.00	0.00	0.00	0.00	0.00	0.00	9	50.37
by # twist	55.62	32.80	9.51	1.79	0.25	0.02	0.00	100.00	11	3.55
									13	0.02

targets\twists	0	1	2	3	4	5	6	7
1	21	252	1,260	3,360	5,040	4,032	1,344	0
3	5,859	47,250	143,640	196,560	105,840	6,048	0	0
5	686,070	2,891,700	3,333,960	589,680	0	0	0	0
7	16,528,617	11,369,484	714,420	0	0	0	0	0
9	7,302,393	153,090	0	0	0	0	0	0

44,089,920

(buffer never counts as twisted)

corners - no parity

targets\twists	0	1	2	3	4	5	6	7 by # targets	targets	twists as cycles	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	
2	0.00	0.01	0.03	0.07	0.07	0.03	0.00	0.00	2	0.00	
4	0.17	1.01	2.11	1.58	0.17	0.00	0.00	0.00	4	0.17	
6	10.14	23.91	7.36	0.15	0.00	0.00	0.00	0.00	6	11.18	
8	43.76	7.87	0.00	0.00	0.00	0.00	0.00	0.00	8	69.85	
10	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	18.44	
by # twists	55.62	32.80	9.50	1.80	0.24	0.03	0.00	0.00	100.00	12	0.35
										14	0.00

targets\twists	0	1	2	3	4	5	6	7
0	1	13	84	280	560	672	448	128
2	378	3,780	15,120	30,240	30,240	12,096	0	0
4	72,765	446,040	929,880	695,520	75,600	0	0	0
6	4,468,527	10,542,798	3,245,508	68,040	0	0	0	0
8	19,292,256	3,470,040	0	0	0	0	0	0
10	688,905	0	0	0	0	0	0	0
								44,089,920

(buffer never counts as twisted)

edges

targets/flips	0	1	2	3	4	5	6	7	8	9	10	11
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.01	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.02	0.10	0.16	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.21	0.66	0.74	0.32	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	1.35	3.04	2.02	0.36	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	6.22	8.42	2.35	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	17.45	10.21	1.12	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	21.98	5.35	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	12.43	1.18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	3.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
by # flips	63.18	29.06	6.63	1.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00

targets/flips	0	1	2	3	4	5	6	7	8	9	10	11
0	1	11	55	165	330	462	462	330	165	55	11	1
1	22	220	990	2,640	4,620	5,544	4,620	2,640	990	220	22	0
2	440	3,960	15,840	36,960	55,440	55,440	36,960	15,840	3,960	440	0	0
3	8,140	65,340	229,680	462,000	582,120	471,240	240,240	71,280	9,900	220	0	0
4	133,320	939,840	2,845,920	4,804,800	4,897,200	3,030,720	1,071,840	179,520	6,600	0	0	0
5	1,911,360	11,605,440	29,494,080	40,286,400	31,416,000	13,527,360	2,735,040	137,280	0	0	0	0
6	23,581,536	120,216,096	247,373,280	258,978,720	141,150,240	35,282,016	2,387,616	15,840	0	0	0	0
7	244,276,032	1,009,008,000	1,593,789,120	1,170,597,120	374,996,160	33,973,632	517,440	0	0	0	0	0
8	2,052,272,640	6,516,026,880	7,244,497,920	3,160,058,880	389,368,320	10,053,120	0	0	0	0	0	0
9	13,284,416,640	29,774,997,120	19,837,635,840	3,488,390,400	141,778,560	443,520	0	0	0	0	0	0
10	61,002,965,760	82,582,917,120	23,045,045,760	1,478,400,000	13,305,600	0	0	0	0	0	0	0
11	171,162,393,600	100,186,352,640	10,980,541,440	206,976,000	0	0	0	0	0	0	0	0
12	215,574,955,264	52,445,828,864	1,999,486,720	4,435,200	0	0	0	0	0	0	0	0
13	121,975,541,248	11,560,299,520	97,574,400	0	0	0	0	0	0	0	0	0
14	31,151,605,760	887,040,000	0	0	0	0	0	0	0	0	0	0
15	3,229,219,840	10,644,480	0	0	0	0	0	0	0	0	0	0
16	92,252,160	0	0	0	0	0	0	0	0	0	0	0

(buffer never counts as flipped)

by # targets	targets	flips as cycles
0.00	0	0.00
0.00	1	0.00
0.00	2	0.00
0.00	3	0.00
0.00	4	0.00
0.01	5	0.00
0.08	6	0.00
0.45	7	0.03
1.97	8	0.22
6.78	9	1.46
17.14	10	6.91
28.80	11	20.65
27.53	12	31.16
13.62	13	24.79
3.27	14	11.21
0.33	15	3.02
0.01	16	0.50
100.00	17	0.05
	18	0.00
	19	0.00
	20	0.00
	21	0.00
	22	0.00

edges - parity

targets/flips	0	1	2	3	4	5	6	7	8	9	10	11
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.05	0.21	0.32	0.24	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	2.71	6.07	4.04	0.71	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	34.90	20.43	2.24	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	24.87	2.36	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
by # flips	63.18	29.06	6.63	1.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00

targets/flips	0	1	2	3	4	5	6	7	8	9	10	11
1	22	220	990	2,640	4,620	5,544	4,620	2,640	990	220	22	0
3	8,140	65,340	229,680	462,000	582,120	471,240	240,240	71,280	9,900	220	0	0
5	1,911,360	11,605,440	29,494,080	40,286,400	31,416,000	13,527,360	2,735,040	137,280	0	0	0	0
7	244,276,032	1,009,008,000	1,593,789,120	1,170,597,120	374,996,160	33,973,632	517,440	0	0	0	0	0
9	13,284,416,640	29,774,997,120	19,837,635,840	3,488,390,400	141,778,560	443,520	0	0	0	0	0	0
11	171,162,393,600	100,186,352,640	10,980,541,440	206,976,000	0	0	0	0	0	0	0	0
13	121,975,541,248	11,560,299,520	97,574,400	0	0	0	0	0	0	0	0	0
15	3,229,219,840	10,644,480	0	0	0	0	0	0	0	0	0	0

(buffer never counts as flipped)

by # targets	targets	flips as cycles
0.00	1	0.00
0.00	3	0.00
0.03	5	0.00
0.90	7	0.05
13.56	9	2.92
57.60	11	41.30
27.24	13	49.58
0.66	15	6.04
100.00	17	0.10
	19	0.00
	21	0.00

490,497,638,400

edges - no parity

targets/flips	0	1	2	3	4	5	6	7	8	9	10	11
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.02	0.05	0.05	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00
8	0.42	1.33	1.48	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	12.44	16.84	4.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	43.95	10.69	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	6.35	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
by # flips	63.18	29.06	6.63	1.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00

targets/flips	0	1	2	3	4	5	6	7	8	9	10	11
0	1	11	55	165	330	462	462	330	165	55	11	1
2	440	3,960	15,840	36,960	55,440	55,440	36,960	15,840	3,960	440	0	0
4	133,320	939,840	2,845,920	4,804,800	4,897,200	3,030,720	1,071,840	179,520	6,600	0	0	0
6	23,581,536	120,216,096	247,373,280	258,978,720	141,150,240	35,282,016	2,387,616	15,840	0	0	0	0
8	2,052,272,640	6,516,026,880	7,244,497,920	3,160,058,880	389,368,320	10,053,120	0	0	0	0	0	0
10	61,002,965,760	82,582,917,120	23,045,045,760	1,478,400,000	13,305,600	0	0	0	0	0	0	0
12	215,574,955,264	52,445,828,864	1,999,486,720	4,435,200	0	0	0	0	0	0	0	0
14	31,151,605,760	887,040,000	0	0	0	0	0	0	0	0	0	0
16	92,252,160	0	0	0	0	0	0	0	0	0	0	0

(buffer never counts as flipped)

by # targets	targets	flips as cycles
0.00	0	0.00
0.00	2	0.00
0.00	4	0.00
0.17	6	0.01
3.95	8	0.44
34.28	10	13.82
55.05	12	62.32
6.53	14	22.42
0.02	16	1.00
100.00	18	0.01
	20	0.00
	22	0.00

490,497,638,400

both - no twists or flips

corners\edges	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	total	both	total
0	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	0	0.00	0
1		0.00		0.00		0.00		0.00		0.00		0.01		0.00		0.00		2	0.00	2
2	0.00		0.00		0.00		0.00		0.00		0.04		0.06		0.01		0.00	4	0.00	4
3		0.00		0.00		0.00		0.01		0.08		0.33		0.16		0.00		6	0.00	6
4	0.00		0.00		0.00		0.00		0.10		0.86		1.39		0.16		0.00	8	0.00	8
5		0.00		0.00		0.00		0.08		1.15		4.90		2.32		0.06		10	0.02	10
6	0.00		0.00		0.00		0.04		0.82		7.12		11.44		1.36		0.00	12	0.35	12
7		0.00		0.00		0.01		0.29		4.40		18.69		8.84		0.21		14	3.57	14
8	0.00		0.00		0.00		0.04		1.02		8.85		14.21		1.69		0.00	16	19.07	16
9		0.00		0.00		0.00		0.08		1.15		4.87		2.30		0.06		18	42.64	18
10	0.00		0.00		0.00		0.00		0.03		0.27		0.43		0.05		0.00	20	29.60	20
no parity	0	2	4	6	8	10	12	14	16	22	4.64	22								
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.11	24								
2	0.00	0.00	0.00	0.00	0.01	0.07	0.11	0.01	0.00	26	0.00	26								
4	0.00	0.00	0.00	0.01	0.20	1.73	2.77	0.33	0.00	total mod 6		total								
6	0.00	0.00	0.00	0.07	1.64	14.25	22.88	2.71	0.01	0	43.10	0								
8	0.00	0.00	0.00	0.09	2.04	17.70	28.42	3.37	0.01	2	33.17	2								
10	0.00	0.00	0.00	0.00	0.06	0.54	0.86	0.10	0.00	4	23.73	4								
parity	1	3	5	7	9	11	13	15	total		total									
1	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0	43.10	0									
3	0.00	0.00	0.00	0.01	0.16	0.66	0.31	0.01	2	33.17	2									
5	0.00	0.00	0.00	0.15	2.31	9.80	4.64	0.11	4	23.73	4									
7	0.00	0.00	0.02	0.59	8.80	37.38	17.68	0.43												
9	0.00	0.00	0.00	0.15	2.29	9.74	4.61	0.11												

no parity	total	parity
0.00	0	0.00
0.00	2	0.00
0.00	4	0.00
0.00	6	0.00
0.00	8	0.00
0.02	10	0.02
0.35	12	0.35
3.57	14	3.57
19.07	16	19.07
40.97	18	44.32
31.67	20	27.53
4.24	22	5.04
0.11	24	0.11
0.00	26	0.00
mod 6	total	mod 6
41.42	0	44.78
35.24	2	31.10
23.33	4	24.12

both - twists only

corners\edges	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	total	both	total
0	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	0	0.00	0
1		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		2	0.00	2
2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	4	0.00	4
3		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		6	0.00	6
4	0.00		0.00		0.00		0.00		0.00		0.03		0.05		0.01		0.00	8	0.00	8
5		0.00		0.00		0.00		0.01		0.11		0.48		0.23		0.01		10	0.00	10
6	0.00		0.00		0.00		0.01		0.22		1.92		3.08		0.37		0.00	12	0.03	12
7		0.00		0.00		0.01		0.20		3.01		12.78		6.05		0.15		14	0.63	14
8	0.00		0.00		0.00		0.06		1.38		11.97		19.23		2.28		0.01	16	7.08	16
9		0.00		0.00		0.01		0.23		3.42		14.51		6.86		0.17		18	31.86	18
10	0.00		0.00		0.00		0.02		0.36		3.16		5.08		0.60		0.00	20	43.56	20
11		0.00		0.00		0.00		0.02		0.24		1.02		0.48		0.01		22	15.45	22
12	0.00		0.00		0.00		0.00		0.01		0.06		0.10		0.01		0.00	24	1.36	24
13		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		26	0.03	26
14	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	28	0.00	28
																		30	0.00	30
no parity	0	2	4	6	8	10	12	14	16	total	mod 6	total								
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	33.25	0								
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	44.22	2								
4	0.00	0.00	0.00	0.00	0.01	0.06	0.10	0.01	0.00	4	22.53	4								
6	0.00	0.00	0.00	0.02	0.44	3.83	6.16	0.73	0.00											
8	0.00	0.00	0.00	0.12	2.76	23.94	38.45	4.56	0.01											
10	0.00	0.00	0.00	0.03	0.73	6.32	10.15	1.20	0.00											
12	0.00	0.00	0.00	0.00	0.01	0.12	0.20	0.02	0.00											
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											
parity	1	3	5	7	9	11	13	15												
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
3	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00												
5	0.00	0.00	0.00	0.02	0.23	0.96	0.45	0.01												
7	0.00	0.00	0.01	0.40	6.02	25.56	12.09	0.29												
9	0.00	0.00	0.01	0.45	6.83	29.01	13.72	0.33												
11	0.00	0.00	0.00	0.03	0.48	2.05	0.97	0.02												
13	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00												

no parity	total	parity
0.00	0	0.00
0.00	2	0.00
0.00	4	0.00
0.00	6	0.00
0.00	8	0.00
0.00	10	0.00
0.03	12	0.03
0.62	14	0.65
6.72	16	7.44
30.84	18	32.88
45.52	20	41.60
14.84	22	16.07
1.41	24	1.31
0.03	26	0.03
0.00	28	0.00
0.00	30	0.00
mod 6	total	mod 6
32.28	0	34.22
46.16	2	42.27
21.56	4	23.50

both - flips only

corners\edges	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
1		0.00		0.00		0.00		0.00		0.00		0.01		0.01		0.00		0.00		0.00	
2	0.00		0.00		0.00		0.00		0.00		0.01		0.06		0.02		0.00		0.00		0.00
3		0.00		0.00		0.00		0.00		0.02		0.24		0.28		0.03		0.00		0.00	
4	0.00		0.00		0.00		0.00		0.01		0.35		1.57		0.56		0.03		0.00		0.00
5		0.00		0.00		0.00		0.00		0.25		3.51		4.22		0.51		0.01		0.00	
6	0.00		0.00		0.00		0.00		0.09		2.87		12.95		4.66		0.21		0.00		0.00
7		0.00		0.00		0.00		0.02		0.95		13.40		16.09		1.96		0.03		0.00	
8	0.00		0.00		0.00		0.00		0.11		3.57		16.09		5.79		0.26		0.00		0.00
9		0.00		0.00		0.00		0.00		0.25		3.49		4.19		0.51		0.01		0.00	
10	0.00		0.00		0.00		0.00		0.00		0.11		0.49		0.18		0.01		0.00		0.00

no parity	0	2	4	6	8	10	12	14	16	18	20	22
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.05	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.02	0.70	3.14	1.13	0.05	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.18	5.74	25.90	9.32	0.41	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.23	7.13	32.17	11.57	0.51	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.01	0.22	0.97	0.35	0.02	0.00	0.00	0.00

parity	1	3	5	7	9	11	13	15	17	19	21
1	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.03	0.47	0.57	0.07	0.00	0.00	0.00
5	0.00	0.00	0.00	0.01	0.50	7.03	8.44	1.03	0.02	0.00	0.00
7	0.00	0.00	0.00	0.03	1.90	26.80	32.18	3.92	0.07	0.00	0.00
9	0.00	0.00	0.00	0.01	0.49	6.98	8.38	1.02	0.02	0.00	0.00

21	22	total	both	total	no parity	total	parity
0.00	0.00	0	0.00	0	0.00	0	0.00
0.00		2	0.00	2	0.00	2	0.00
	0.00	4	0.00	4	0.00	4	0.00
0.00		6	0.00	6	0.00	6	0.00
	0.00	8	0.00	8	0.00	8	0.00
0.00		10	0.00	10	0.00	10	0.00
	0.00	12	0.06	12	0.06	12	0.06
0.00		14	1.02	14	1.01	14	1.02
	0.00	16	9.33	16	9.16	16	9.50
0.00		18	34.99	18	34.17	18	35.80
	0.00	20	40.97	20	41.76	20	40.19
		22	12.64	22	12.96	22	12.32
		24	0.98	24	0.87	24	1.09
		26	0.02	26	0.02	26	0.02
		28	0.00	28	0.00	28	0.00
		30	0.00	30	0.00	30	0.00
		32	0.00	32	0.00	32	0.00
		total	mod 6	total	mod 6	total	mod 6
		0	36.02	0	35.09	0	36.94
		2	42.01	2	42.79	2	41.23
		4	21.97	4	22.12	4	21.83

both - twists and flips

corners\edges	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
1		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
3		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
4	0.00		0.00		0.00		0.00		0.00		0.01		0.05		0.02		0.00		0.00		0.00
5		0.00		0.00		0.00		0.00		0.02		0.34		0.41		0.05		0.00		0.00	
6	0.00		0.00		0.00		0.00		0.02		0.77		3.48		1.25		0.06		0.00		0.00
7		0.00		0.00		0.00		0.01		0.65		9.16		11.00		1.34		0.02		0.00	
8	0.00		0.00		0.00		0.00		0.15		4.83		21.76		7.83		0.35		0.00		0.00
9		0.00		0.00		0.00		0.01		0.74		10.40		12.49		1.52		0.03		0.00	
10	0.00		0.00		0.00		0.00		0.04		1.27		5.75		2.07		0.09		0.00		0.00
11		0.00		0.00		0.00		0.00		0.05		0.73		0.88		0.11		0.00		0.00	
12	0.00		0.00		0.00		0.00		0.00		0.02		0.11		0.04		0.00		0.00		0.00
13		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00	
14	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00

no parity	0	2	4	6	8	10	12	14	16	18	20	22
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.05	1.54	6.97	2.51	0.11	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.31	9.65	43.53	15.66	0.70	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.08	2.55	11.49	4.13	0.18	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.05	0.22	0.08	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

parity	1	3	5	7	9	11	13	15	17	19	21
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.05	0.69	0.83	0.10	0.00	0.00	0.00
7	0.00	0.00	0.00	0.02	1.30	18.33	22.01	2.68	0.04	0.00	0.00
9	0.00	0.00	0.00	0.03	1.47	20.80	24.97	3.04	0.05	0.00	0.00
11	0.00	0.00	0.00	0.00	0.10	1.47	1.76	0.21	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00

both - twists and flips

21	22	total		total		total	
		both	both	no parity	no parity	parity	parity
0.00	0.00	0	0.00	0	0.00	0	0.00
0.00		2	0.00	2	0.00	2	0.00
	0.00	4	0.00	4	0.00	4	0.00
0.00		6	0.00	6	0.00	6	0.00
	0.00	8	0.00	8	0.00	8	0.00
0.00		10	0.00	10	0.00	10	0.00
	0.00	12	0.00	12	0.00	12	0.00
0.00		14	0.08	14	0.08	14	0.08
	0.00	16	1.99	16	1.96	16	2.02
0.00		18	18.68	18	16.74	18	20.63
	0.00	20	45.80	20	48.59	20	43.01
0.00		22	28.22	22	27.31	22	29.13
	0.00	24	4.95	24	5.05	24	4.86
0.00		26	0.27	26	0.27	26	0.27
	0.00	28	0.00	28	0.00	28	0.00
		30	0.00	30	0.00	30	0.00
		32	0.00	32	0.00	32	0.00
		34	0.00	34	0.00	34	0.00
		36	0.00	36	0.00	36	0.00
		total	mod 6	total	mod 6	total	mod 6
		0	23.64	0	21.79	0	25.49
		2	46.15	2	48.93	2	43.36
		4	30.21	4	29.28	4	31.15