

INSTRUCTIONS: Compare with plan attached. Columns without coordinates will not be marked. Not all columns marked will be constructed.

 Columns blocked by blade walls

0.1

No.	x	y	distance from
1			1.00
2			1.41
3			1.73
4			2.00
5			2.24
6	-0.64	2.37	2.45
7	-1.22	-2.35	2.65
8	2.66	0.97	2.83
9	-2.77	1.14	3.00
10	1.34	-2.86	3.16
11	0.99	3.17	3.32
12	-3.00	-1.74	3.46
13	3.52	-0.77	3.61
14	-2.15	3.06	3.74
15	-0.50	-3.84	3.87
16	3.06	2.58	4.00
17	-4.12	0.17	4.12
18	3.01	-2.99	4.24
19	-0.20	4.35	4.36
20	-2.86	-3.44	4.47
21	4.54	0.61	4.58
22	-3.85	2.68	4.69
23	1.06	-4.68	4.80
24	2.43	4.25	4.90
25	-4.76	-1.52	5.00
26	4.63	-2.13	5.10
27	-2.01	4.79	5.20
28	-1.79	-4.98	5.29
29	4.76	2.51	5.39
30	-5.30	1.39	5.48

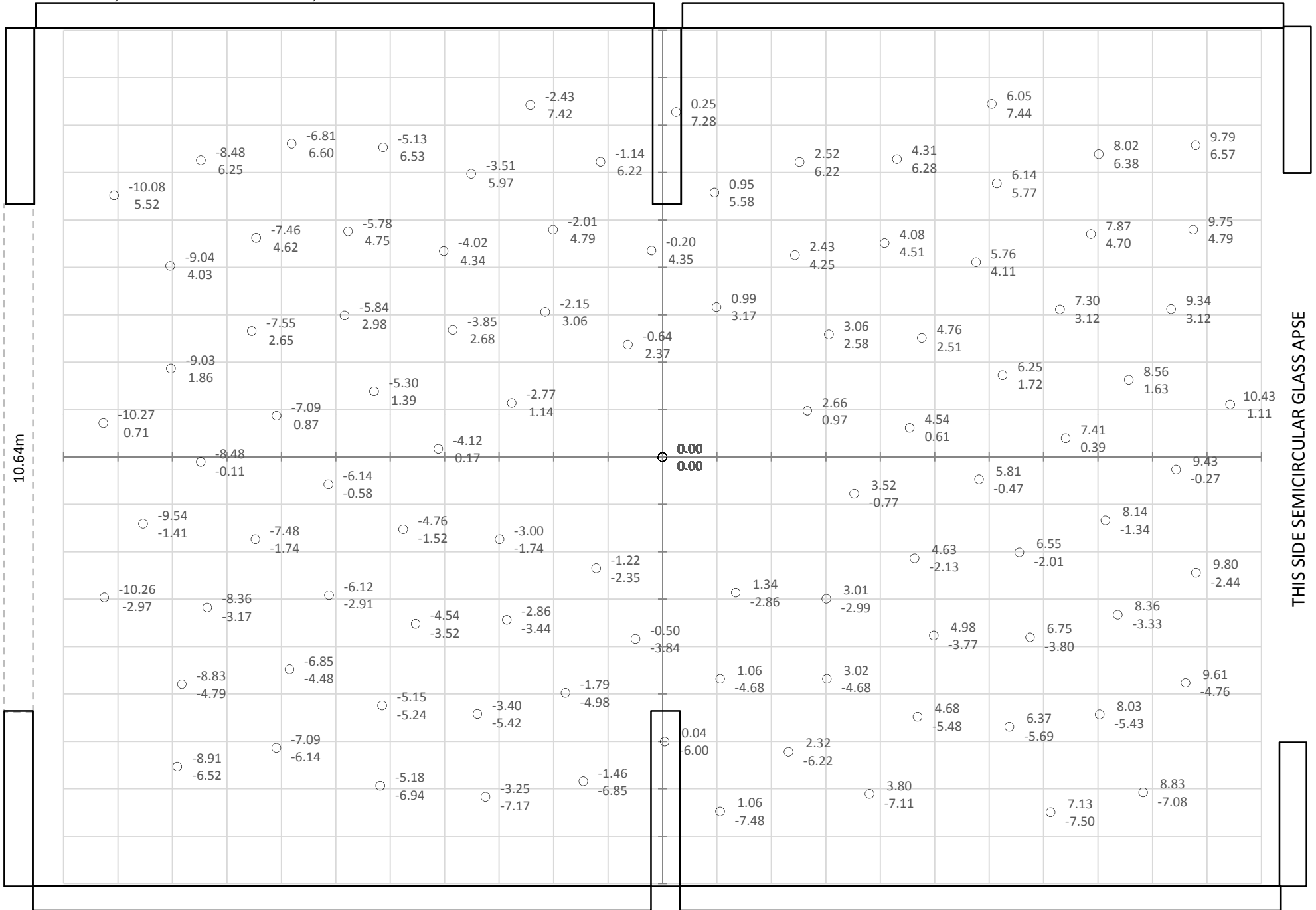
No.	x	y	distance from
31	3.02	-4.68	5.57
32	0.95	5.58	5.66
33	-4.54	-3.52	5.74
34	5.81	-0.47	5.83
35	-4.02	4.34	5.92
36	0.04	-6.00	6.00
37	4.08	4.51	6.08
38	-6.14	-0.58	6.16
39	4.98	-3.77	6.24
40	-1.14	6.22	6.32
41	-3.40	-5.42	6.40
42	6.25	1.72	6.48
43	-5.84	2.98	6.56
44	2.32	-6.22	6.63
45	2.52	6.22	6.71
46	-6.12	-2.91	6.78
47	6.55	-2.01	6.86
48	-3.51	5.97	6.93
49	-1.46	-6.85	7.00
50	5.76	4.11	7.07
51	-7.09	0.87	7.14
52	4.68	-5.48	7.21
53	0.25	7.28	7.28
54	-5.15	-5.24	7.35
55	7.41	0.39	7.42
56	-5.78	4.75	7.48
57	1.06	-7.48	7.55
58	4.31	6.28	7.62
59	-7.48	-1.74	7.68
60	6.75	-3.80	7.75

No.	x	y	distance from
61	-2.43	7.42	7.81
62	-3.25	-7.17	7.87
63	7.30	3.12	7.94
64	-7.55	2.65	8.00
65	3.80	-7.11	8.06
66			8.12
67	-6.85	-4.48	8.19
68	8.14	-1.34	8.25
69	-5.13	6.53	8.31
70			8.37
71	6.14	5.77	8.43
72	-8.48	-0.11	8.49
73	6.37	-5.69	8.54
74			8.60
75	-5.18	-6.94	8.66
76	8.56	1.63	8.72
77	-7.46	4.62	8.77
78			8.83
79			8.89
80	-8.36	-3.17	8.94
81	8.36	-3.33	9.00
82			9.06
83			9.11
84	7.87	4.70	9.17
85	-9.03	1.86	9.22
86			9.27
87			9.33
88	-7.09	-6.14	9.38
89	9.43	-0.27	9.43
90	-6.81	6.60	9.49

No.	x	y	distance from centre
91			9.54
92	6.05	7.44	9.59
93	-9.54	-1.41	9.64
94	8.03	-5.43	9.70
95			9.75
96			9.80
97	9.34	3.12	9.85
98	-9.04	4.03	9.90
99			9.95
100			10.00
101	-8.83	-4.79	10.05
102	9.80	-2.44	10.10
103			10.15
104			10.20
105	8.02	6.38	10.25
106	-10.27	0.71	10.30
107	7.13	-7.50	10.34
108			10.39
109			10.44
110	10.43	1.11	10.49
111	-8.48	6.25	10.54
112			10.58
113			10.63
114	-10.26	-2.97	10.68
115	9.61	-4.76	10.72
116			10.77
117			10.82
118	9.75	4.79	10.86
119			10.91
120			10.95

No.	x	y	distance from centre
121			11.00
122	-8.91	-6.52	11.05
123			11.09
124			11.14
125			11.18
126			11.22
127			11.27
128	8.83	-7.08	11.31
129			11.36
130			11.40
131			11.45
132	-10.08	5.52	11.49
133			11.53
134			11.58
135			11.62
136			11.66
137			11.70
138			11.75
139	9.79	6.57	11.79
140			11.83
141			11.87
142			11.92
143			11.96
144			12.00
145			12.04
146			12.08
147			12.12
148			12.17
149			12.21
150			12.25

SHEET 3 of 5: Plan, Mercado de la Ribera, Bilbao

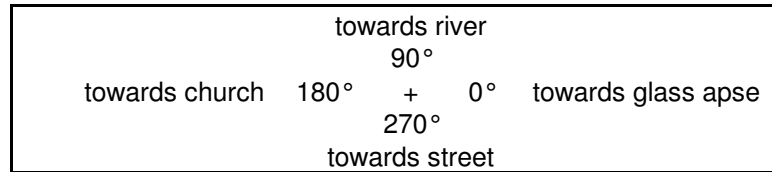


SHEET 4 of 5: Slot angles, Mercado de la Ribera, Bilbao

Instructions: All angles are cartesian, i.e. ANTI-CLOCKWISE.

Columns blocked by blade walls

Mark angles on top, cut slots but do not connect beam



Col. No.	A+	C+	B+	A-	C-	B-
6	78,	97,	120,			
7	213,	235,	258,			
8	349,	12,	36,			
9	125,	149,	174,			
10	261,	286,	313,			
11	37,	63,	91,			
12	173,	201,	229,			
13	309,	338,	7,			
14	85,	115,	146,			
15	221,	252,	284,			
16	358,	29,	62,			
17	134,	167,	200,			
18	270,	304,	338,			
19	47,	81,	117,	258,		
20	183,	218,	255,	33,		
21	319,	356,	33,	169,		
22	96,	133,	171,	305,		
23	232,	270,	309,	81,		
24	9,	47,	87,	217,		
25	145,	185,	226,	353,		
26	282,	322,	4,	129,		
27	59,	99,	142,	265,	300,	
28	195,	236,	280,	41,	78,	
29	332,	13,	58,	178,	216,	
30	109,	151,	196,	314,	354,	
31	245,	288,	334,	90,	133,	
32	22,	112,	227,	271,		
33	159,	202,	250,	3,	49,	
34	296,	340,	29,	139,	187,	
35	73,	117,	167,	276,	326,	
36	210,	305,	52,	104,		
37	346,	31,	83,	189,	242,	
38	123,	169,	221,	325,	20,	
39	260,	306,	359,	102,	158,	
40	37,	137,	239,	277,	297,	

Col. No.	A+	C+	B+	A-	C-	B-
41	174,	220,	275,	15,	55,	75,
42	311,	358,	53,	152,	192,	213,
43	88,	135,	191,	289,	329,	351,
44	225,	329,	65,	106,	129,	
45	2,	202,	243,	267,		
46	139,	187,	245,	339,	21,	46,
47	276,	324,	23,	116,	158,	184,
48	53,	161,	253,	295,	322,	
49	190,	30,	72,	100,		
50	327,	16,	77,	166,	209,	238,
51	104,	153,	215,	303,	347,	16,
52	242,	353,	80,	124,	154,	
53	217,	261,	292,			
54	156,	205,	269,	354,	38,	70,
55	293,	342,	47,	131,	176,	209,
56	70,	119,	185,	268,	313,	347,
57	45,	90,	125,			
58	344,	34,	182,	227,	263,	
59	122,	171,	238,	319,	5,	41,
60	259,	308,	16,	96,	142,	179,
61	233,	279,	317,			
62	173,	10,	56,	95,		
63	310,	70,	147,	193,	233,	
64	88,	137,	208,	284,	331,	11,
65	62,	108,	149,			
67	139,	189,	262,	336,	22,	65,
68	276,	326,	40,	113,	160,	203,
69	177,	250,	297,	341,		
71	328,	18,	93,	164,	211,	257,
72	105,	155,	231,	302,	349,	35,
73	293,	9,	79,	126,	173,	
75	157,	353,	40,	89,		
76	295,	345,	62,	130,	178,	227,
77	72,	122,	200,	268,	315,	5,
80	124,	174,	254,	319,	7,	58,

Col. No.	A+	C+	B+	A-	C-	B-
81	261,	311,	32,	96,	144,	196,
84	313,	3,	85,	148,	196,	250,
85	90,	223,	285,	333,	28,	
88	142,	192,	337,	25,	82,	
89	280,	54,	115,	162,	220,	
90	192,	252,	299,	357,		
92	332,	214,	273,			
93	109,	245,	304,	351,	51,	
94	246,	296,	23,	81,	128,	189,
97	298,	76,	133,	180,	242,	
98	76,	125,	270,	317,	20,	
101	128,	267,	322,	9,	74,	
102	265,	100,	146,	212,		
105	317,	6,	152,	198,	265,	
106	289,	335,	43,			
107	14,	66,	113,			
110	118,	165,	234,			
111	205,	256,	302,	12,		
114	308,	354,	65,			
115	251,	85,	131,	203,		
118	89,	137,	183,	256,		
122	12,	87,				
128	71,	116,	194,			
132	305,	25,				
139	186,	269,				

# SHEET 5 of 5: Beam lengths, Mercado de la Ribera, Bilbao

INSTRUCTIONS: Not all beams constructed will be erected, but they should be kept for the next exhibition location

 Columns blocked by blade walls

0.180 (mm) column diameter

0.060 (mm) clearance between beams

therefore

0.060 (mm) tongue length

Beam name	Col	Col	trimmed length
A 01 03	14	27	1.68
A 01 04	27	40	1.61
A 01 05	40	53	1.69
A 01 09	92	105	2.17
A 01 10	105	118	2.30
A 02 03	15	28	1.66
A 02 04	28	41	1.62
A 02 05	41	54	1.69
A 02 06	54	67	1.81
A 02 07	67	80	1.93
A 02 08	80	93	2.06
A 02 09	93	106	2.18
A 03 03	16	29	1.65
A 03 04	29	42	1.62
A 03 05	42	55	1.70
A 03 06	55	68	1.82
A 03 07	68	81	1.94
A 03 08	81	94	2.07
A 03 09	94	107	2.19
A 04 03	17	30	1.64
A 04 04	30	43	1.62
A 04 05	43	56	1.71
A 04 06	56	69	1.83
A 05 03	18	31	1.63
A 05 04	31	44	1.63
A 05 05	44	57	1.72
A 06 02	06	19	1.98
A 06 03	19	32	1.62
A 06 04	32	45	1.63
A 06 05	45	58	1.73
A 06 06	58	71	1.85
A 06 07	71	84	1.97
A 06 08	84	97	2.10
A 06 09	97	110	2.22
A 07 02	07	20	1.91
A 07 03	20	33	1.62
A 07 04	33	46	1.64
A 07 05	46	59	1.74
A 07 06	59	72	1.86
A 07 07	72	85	1.98
A 07 08	85	98	2.11
A 07 09	98	111	2.23
A 08 02	08	21	1.86
A 08 03	21	34	1.61
A 08 04	34	47	1.64

Beam name	Col	Col	trimmed length
A 08 05	47	60	1.75
A 08 06	60	73	1.87
A 09 02	09	22	1.81
A 09 03	22	35	1.61
A 09 04	35	48	1.65
A 09 05	48	61	1.75
A 10 02	10	23	1.78
A 10 03	23	36	1.61
A 10 04	36	49	1.66
A 10 05	49	62	1.76
A 10 06	62	75	1.89
A 10 07	75	88	2.01
A 10 08	88	101	2.14
A 10 09	101	114	2.26
A 11 02	11	24	1.75
A 11 03	24	37	1.61
A 11 04	37	50	1.66
A 11 05	50	63	1.77
A 11 06	63	76	1.90
A 11 07	76	89	2.02
A 11 08	89	102	2.15
A 11 09	102	115	2.27
A 11 10	115	128	2.39
A 12 02	12	25	1.72
A 12 03	25	38	1.61
A 12 04	38	51	1.67
A 12 05	51	64	1.78
A 12 06	64	77	1.90
A 12 07	77	90	2.03
A 13 02	13	26	1.70
A 13 03	26	39	1.61
A 13 04	39	52	1.68
A 13 05	52	65	1.79
B 01 03	22	43	1.95
B 01 04	43	64	1.68
B 01 05	64	85	1.62
B 01 06	85	106	1.63
B 02 03	23	44	1.93
B 02 04	44	65	1.67
B 02 07	107	128	1.69
B 03 03	24	45	1.91
B 04 03	25	46	1.89
B 04 04	46	67	1.66
B 04 05	67	88	1.62
B 05 03	26	47	1.87

Beam name	Col	Col	trimmed length
B 05 04	47	68	1.66
B 05 05	68	89	1.62
B 05 06	89	110	1.64
B 06 02	06	27	2.73
B 06 03	27	48	1.85
B 06 04	48	69	1.65
B 06 05	69	90	1.62
B 06 06	90	111	1.64
B 06 07	111	132	1.70
B 07 02	07	28	2.63
B 07 03	28	49	1.83
B 08 02	08	29	2.55
B 08 03	29	50	1.82
B 08 04	50	71	1.65
B 08 05	71	92	1.62
B 09 02	09	30	2.48
B 09 03	30	51	1.80
B 09 04	51	72	1.64
B 09 05	72	93	1.62
B 09 06	93	114	1.65
B 10 02	10	31	2.41
B 10 03	31	52	1.79
B 10 04	52	73	1.64
B 10 05	73	94	1.62
B 10 06	94	115	1.65
B 11 02	11	32	2.35
B 11 03	32	53	1.78
B 12 02	12	33	2.30
B 12 03	33	54	1.77
B 12 04	54	75	1.63
B 13 02	13	34	2.25
B 13 03	34	55	1.76
B 13 04	55	76	1.63
B 13 05	76	97	1.62
B 13 06	97	118	1.66
B 13 07	118	139	1.72
B 14 02	14	35	2.20
B 14 03	35	56	1.74
B 14 04	56	77	1.63
B 14 05	77	98	1.62
B 15 02	15	36	2.16
B 15 03	36	57	1.73
B 16 02	16	37	2.13
B 16 03	37	58	1.73
B 17 02	17	38	2.09

Beam name	Col	Col	trimmed length
B 17 03	38	59	1.72
B 17 04	59	80	1.62
B 17 05	80	101	1.63
B 17 06	101	122	1.67
B 18 02	18	39	2.06
B 18 03	39	60	1.71
B 18 04	60	81	1.62
B 18 05	81	102	1.63
B 19 02	19	40	2.03
B 19 03	40	61	1.70
B 20 02	20	41	2.00
B 20 03	41	62	1.69
B 21 02	21	42	1.97
B 21 03	42	63	1.69
B 21 04	63	84	1.62
B 21 05	84	105	1.63
C 01 03	35	69	2.40
C 03 03	37	71	2.35
C 03 04	71	105	1.91
C 03 05	105	139	1.72
C 04 03	38	72	2.33
C 04 04	72	106	1.90
C 05 03	39	73	2.31
C 05 04	73	107	1.90
C 06 02	06	40	3.83
C 07 02	07	41	3.71
C 07 03	41	75	2.28
C 08 02	08	42	3.61
C 08 03	42	76	2.26
C 08 04	76	110	1.87
C 09 02	09	43	3.52
C 09 03	43	77	2.24
C 09 04	77	111	1.87
C 10 02	10	44	3.43
C 11 02	11	45	3.35
C 12 02	12	46	3.28
C 12 03	46	80	2.19
C 12 04	80	114	1.85
C 13 02	13	47	3.22
C 13 03	47	81	2.18
C 13 04	81	115	1.84
C 14 02	14	48	3.15
C 15 02	15	49	3.10
C 16 02	16	50	3.04
C 16 03	50	84	2.13

Beam name	Col	Col	trimmed length
C 16 04	84	118	1.82
C 17 02	17	51	2.99
C 17 03	51	85	2.12
C 18 02	18	52	2.94
C 19 02	19	53	2.90
C 20 02	20	54	2.85
C 20 03	54	88	2.08
C 20 04	88	122	1.80
C 21 02	21	55	2.81
C 21 03	55	89	2.07
C 22 02	22	56	2.77
C 22 03	56	90	2.06
C 23 02	23	57	2.74
C 24 02	24	58	2.70
C 24 03	58	92	2.03
C 25 02	25	59	2.67
C 25 03	59	93	2.02
C 26 02	26	60	2.64
C 26 03	60	94	2.01
C 26 04	94	128	1.77
C 27 02	27	61	2.61
C 28 02	28	62	2.58
C 29 02	29	63	2.55
C 29 03	63	97	1.98
C 30 02	30	64	2.52
C 30 03	64	98	1.97
C 30 04	98	132	1.75
C 31 02	31	65	2.49
C 33 02	33	67	2.44
C 33 03	67	101	1.95
C 34 02	34	68	2.42
C 34 03	68	102	1.94