

aGg'-Ethyleneglycol

The first column gives the lines number; 1 - 107 are from the previous study, 108 - 667 from the present one.

The following four columns state the upper state quantum numbers J', Ka', Kc' and the vibrational identifier v'.

After the minus sign appear the lower state quantum numbers J'', Ka'', Kc'' and v''.

The last three columns provide the experimental frequency, the uncertainty (1 sigma), and the residual between observed and calculated frequency - all in units of MHz.

The last column gives the weight for overlapping lines.

In the present case, this is the spin-statistical weight for prolate and oblate paired transitions with equal values for Ka and Kc, respectively.

No.	J'Ka'Kc'	v'	-	J''Ka''Kc''	v''	frequency	unc.	res.	weight
1:	5 4 2	1	-	5 4 1	0	6951.97	0.10	-0.186	
2:	3 3 1	1	-	3 3 0	0	6957.24	0.10	-0.179	
3:	4 4 1	1	-	4 4 0	0	6963.88	0.10	-0.155	0.4375
4:	4 4 0	1	-	4 4 1	0	6963.88	0.10	-0.155	0.5625
5:	5 3 2	1	-	5 3 3	0	7024.68	0.10	-0.267	
6:	2 2 0	1	-	2 2 1	0	7026.5	0.5	-0.144	
7:	7 3 4	1	-	7 3 5	0	7528.18	0.10	-0.033	
8:	5 1 4	0	-	5 1 5	1	7600.69	0.10	0.265	
9:	1 1 0	1	-	1 1 1	0	7925.494	0.004	-0.002	
10:	4 2 2	1	-	4 2 3	0	7948.88	0.10	-0.212	
11:	8 3 5	1	-	8 3 6	0	8217.69	0.10	-0.049	
12:	8 1 8	1	-	8 0 8	0	8603.52	0.10	-0.259	
13:	5 2 3	1	-	5 2 4	0	9217.42	0.10	-0.123	
14:	2 1 1	1	-	2 1 2	0	9852.141	0.004	-0.001	
15:	2 0 2	1	-	1 1 1	1	10534.513	0.004	-0.002	
16:	2 0 2	0	-	1 1 1	0	10551.877	0.004	0.000	
17:	1 1 0	0	-	1 0 1	0	10747.533	0.004	0.000	
18:	1 1 0	1	-	1 0 1	1	10754.257	0.004	0.000	
19:	5 1 5	1	-	4 2 2	1	11488.0	0.5	-0.467	
20:	5 1 5	1	-	5 0 5	0	11745.0	0.5	-0.576	
21:	2 1 1	0	-	2 0 2	0	11785.804	0.004	-0.000	
22:	2 1 1	1	-	2 0 2	1	11810.300	0.004	0.002	
23:	2 1 2	0	-	1 1 1	1	12492.671	0.004	0.000	
24:	3 1 2	1	-	3 1 3	0	12689.052	0.008	-0.006	
25:	2 0 2	0	-	1 0 1	1	13380.638	0.004	0.000	
26:	3 1 2	0	-	3 0 3	0	13444.750	0.004	-0.001	
27:	3 1 2	1	-	3 0 3	1	13571.455	0.004	-0.001	
28:	1 1 0	0	-	0 0 0	1	13990.891	0.004	-0.001	
29:	6 2 5	0	-	6 1 5	1	14336.54	0.10	0.146	
30:	7 2 5	1	-	7 2 6	0	14337.37	0.10	-0.041	
31:	2 1 1	0	-	1 1 0	1	14412.184	0.004	-0.001	
32:	4 1 3	1	-	3 2 2	1	14678.1	0.5	0.449	
33:	4 1 3	0	-	3 2 2	0	14706.2	0.5	0.088	
34:	4 1 3	1	-	4 0 4	1	15809.0	0.5	0.659	
35:	2 1 2	1	-	2 0 2	0	15829.733	0.004	-0.000	
36:	4 1 3	0	-	4 0 4	0	15971.9	0.5	-0.183	
37:	1 1 1	1	-	1 0 1	0	16734.113	0.004	-0.001	
38:	4 1 3	1	-	4 1 4	0	16786.8	0.5	0.254	
39:	5 2 4	0	-	5 1 4	1	16897.58	0.10	0.226	
40:	1 0 1	1	-	0 0 0	0	17153.563	0.004	-0.004	
41:	1 1 1	1	-	0 0 0	1	19977.471	0.004	-0.003	
42:	1 1 1	0	-	0 0 0	0	19982.327	0.004	-0.001	
43:	3 0 3	0	-	2 0 2	1	23392.95	0.10	-0.174	

44:	3	1	2	0	-	2	1	1	1	25027.582	0.008	0.005
45:	2	1	2	1	-	1	1	1	0	26381.68	0.10	0.070
46:	2	0	2	1	-	1	0	1	0	27268.60	0.10	-0.029
47:	3	2	1	1	-	3	1	2	1	28259.32	0.10	0.056
48:	3	2	1	0	-	3	1	2	0	28291.90	0.10	-0.062
49:	2	1	1	1	-	1	1	0	0	28331.44	0.10	0.046
50:	2	1	2	1	-	1	0	1	1	29210.41	0.10	0.039
51:	2	1	2	0	-	1	0	1	0	29226.86	0.10	0.075
52:	2	2	0	1	-	2	1	1	1	29400.30	0.10	0.070
53:	2	2	0	0	-	2	1	1	0	29401.91	0.10	0.040
54:	4	0	4	0	-	3	0	3	1	33272.94	0.10	0.027
55:	3	2	2	0	-	3	1	3	0	33656.41	0.10	-0.076
56:	4	2	3	0	-	3	2	2	1	33806.29	0.10	0.096
57:	4	3	2	0	-	3	3	1	1	33976.78	0.10	0.064
58:	4	3	1	0	-	3	3	0	1	33994.55	0.10	-0.060
59:	4	1	3	0	-	3	1	2	1	35673.42	0.10	-0.120
60:	4	2	3	0	-	4	1	4	0	35915.05	0.10	-0.039
61:	3	1	3	1	-	2	1	2	0	36061.52	0.10	0.049
62:	3	0	3	1	-	2	0	2	0	37187.66	0.10	-0.101
63:	3	2	2	1	-	2	2	1	0	37557.22	0.10	-0.166
64:	3	1	3	1	-	2	0	2	1	38019.71	0.10	0.083
65:	3	1	3	0	-	2	0	2	0	38070.20	0.10	0.042
66:	5	2	4	1	-	5	1	5	1	38351.84	0.10	0.076
67:	3	1	2	1	-	2	1	1	0	38973.40	0.10	-0.012
68:	5	0	5	0	-	4	0	4	1	42629.07	0.10	0.202
69:	5	2	4	0	-	4	2	3	1	43919.68	0.10	0.112
70:	5	4	2	0	-	4	4	1	1	44199.66	0.10	0.024
71:	5	4	1	0	-	4	4	0	1	44200.57	0.10	0.068
72:	5	3	3	0	-	4	3	2	1	44263.94	0.10	0.105
73:	5	3	2	0	-	4	3	1	1	44325.98	0.10	0.100
74:	8	3	5	1	-	8	2	6	1	44542.38	0.10	-0.046
75:	7	2	6	0	-	7	1	7	0	45107.79	0.10	0.132
76:	5	2	3	0	-	4	2	2	1	45179.72	0.10	-0.053
77:	4	1	4	1	-	3	1	3	0	45547.64	0.10	-0.052
78:	5	1	4	0	-	4	1	3	1	46166.54	0.10	0.013
79:	7	3	4	1	-	7	2	5	1	46599.95	0.10	-0.008
80:	4	0	4	1	-	3	0	3	0	47217.41	0.10	-0.045
81:	4	2	3	1	-	3	2	2	0	47696.40	0.10	0.019
82:	4	3	2	1	-	3	3	1	0	47888.67	0.10	-0.058
83:	4	3	1	1	-	3	3	0	0	47906.87	0.10	-0.058
84:	6	3	3	1	-	6	2	4	1	48364.80	0.10	0.188
85:	4	2	2	1	-	3	2	1	0	48366.82	0.10	0.101
86:	8	2	7	1	-	8	1	8	1	49044.84	0.10	0.048
87:	4	1	3	0	-	3	0	3	1	49245.24	0.10	0.245
88:	4	1	3	1	-	3	1	2	0	49581.05	0.10	0.005
89:	5	3	2	1	-	5	2	3	1	49690.64	0.10	-0.007
90:	2	2	1	1	-	1	1	0	1	50703.73	0.10	0.035
91:	2	2	1	0	-	1	1	0	0	50704.97	0.10	-0.010
92:	3	1	2	1	-	2	0	2	0	50759.34	0.10	0.124
93:	6	1	6	0	-	5	1	5	1	50836.33	0.10	0.228
94:	2	2	0	0	-	1	1	1	0	51739.68	0.10	0.129
95:	6	0	6	0	-	5	0	5	1	52075.84	0.10	0.224
96:	6	3	4	0	-	6	2	5	0	52486.36	0.10	-0.132
97:	6	2	5	0	-	5	2	4	1	53975.87	0.10	0.192
98:	6	4	3	0	-	5	4	2	1	54490.76	0.10	0.148
99:	6	4	2	0	-	5	4	1	1	54494.70	0.10	0.214
100:	8	3	6	0	-	8	2	7	0	54715.37	0.10	-0.038
101:	6	3	3	0	-	5	3	2	1	54731.08	0.10	0.088
102:	6	2	4	0	-	5	2	3	1	56017.36	0.10	0.010
103:	6	1	5	0	-	5	1	4	1	56551.93	0.10	0.049
104:	5	2	4	1	-	4	2	3	0	57789.24	0.10	-0.083

105:	5	3	2	1	-	4	3	1	0	58219.40	0.10	-0.044	
106:	5	2	3	1	-	4	2	2	0	59076.26	0.10	-0.053	
107:	6	2	5	0	-	5	1	4	0	84726.85	0.10	-0.167	
108:	6	0	6	0	-	5	1	5	0	54334.230	0.020	-0.011	
109:	6	0	6	1	-	5	1	5	1	54339.468	0.010	0.003	
110:	6	5	2	0	-	5	5	1	1	54417.853	0.010	0.003	0.5625
111:	6	5	1	0	-	5	5	0	1	54417.853	0.010	0.003	0.4375
112:	17	3	14	0	-	17	2	15	0	55085.168	0.010	-0.002	
113:	5	1	5	1	-	4	1	4	0	55352.657	0.010	0.009	
114:	10	1	9	1	-	10	1	10	0	55675.355	0.020	-0.007	
115:	17	3	14	1	-	17	2	15	1	55698.681	0.010	0.001	
116:	15	2	13	0	-	15	2	14	1	56099.268	0.030	-0.014	
117:	20	4	16	0	-	20	3	17	0	56239.618	0.030	0.006	
118:	20	4	16	1	-	20	3	17	1	56377.608	0.020	0.011	
119:	9	3	7	0	-	9	2	8	0	56451.411	0.010	0.001	
120:	9	3	7	1	-	9	2	8	1	56609.357	0.010	0.000	
121:	5	0	5	1	-	4	0	4	0	56729.587	0.010	0.009	
122:	11	2	10	0	-	11	0	11	1	58173.055	0.020	-0.012	
123:	10	3	8	0	-	10	2	9	0	58617.159	0.020	-0.007	
124:	23	4	19	0	-	23	4	20	1	58790.919	0.010	0.003	
125:	19	3	16	0	-	19	3	17	1	59008.729	0.020	-0.015	
126:	7	1	7	0	-	6	1	6	1	60297.213	0.010	-0.005	
127:	21	4	17	0	-	21	3	18	0	60767.957	0.010	0.002	
128:	11	3	9	0	-	11	2	10	0	60986.099	0.010	-0.009	
129:	21	4	17	1	-	21	3	18	1	61023.214	0.020	0.011	
130:	11	3	9	1	-	11	2	10	1	61199.893	0.020	-0.013	
131:	18	3	15	0	-	18	2	16	0	62079.323	0.030	0.015	
132:	12	4	8	0	-	12	3	9	0	62825.275	0.010	0.004	
133:	12	4	8	1	-	12	3	9	1	62936.263	0.020	0.005	
134:	11	1	10	1	-	11	1	11	0	63014.069	0.010	-0.013	
135:	12	3	10	0	-	12	1	11	1	63020.310	0.010	-0.005	
136:	23	5	18	1	-	23	4	19	1	63470.405	0.010	0.010	
137:	23	5	18	0	-	23	4	19	0	63525.345	0.010	-0.007	
138:	18	3	15	1	-	18	3	16	0	63612.008	0.010	-0.001	
139:	22	5	17	1	-	22	4	18	1	63784.297	0.010	0.006	
140:	22	5	17	0	-	22	4	18	0	63927.609	0.010	-0.010	
141:	11	2	10	1	-	11	1	11	1	63937.987	0.020	-0.012	
142:	15	2	13	1	-	15	1	14	1	64313.761	0.020	-0.014	
143:	7	6	2	0	-	6	6	1	1	64636.833	0.010	-0.000	0.5625
144:	7	6	1	0	-	6	6	0	1	64636.833	0.010	-0.000	0.4375
145:	24	5	19	0	-	24	4	20	0	64639.489	0.010	-0.001	
146:	15	2	13	0	-	15	1	14	0	64648.524	0.010	-0.006	
147:	24	5	19	1	-	24	4	20	1	64678.423	0.010	0.014	
148:	12	1	11	0	-	12	0	12	0	64690.943	0.010	-0.026	
149:	12	3	10	1	-	12	2	11	1	64758.470	0.010	-0.015	
150:	16	2	14	0	-	16	2	15	1	64773.996	0.020	-0.014	
151:	6	1	6	1	-	5	1	5	0	64796.480	0.010	-0.004	
152:	7	4	4	0	-	6	4	3	1	64807.431	0.010	-0.006	
153:	7	4	3	0	-	6	4	2	1	64820.230	0.010	-0.005	
154:	7	0	7	0	-	6	1	6	0	64826.258	0.010	-0.001	
155:	7	0	7	1	-	6	1	6	1	64837.637	0.020	0.004	
156:	7	3	5	0	-	6	3	4	1	64880.061	0.010	-0.005	
157:	12	1	11	1	-	12	0	12	1	64948.739	0.010	-0.015	
158:	7	3	4	0	-	6	3	3	1	65237.861	0.010	-0.010	
159:	19	6	14	1	-	18	7	11	1	65262.004	0.040	0.006	
160:	12	3	10	0	-	12	2	11	0	65309.779	0.020	0.005	
161:	21	5	16	1	-	21	4	17	1	65418.731	0.010	0.002	
162:	11	4	7	1	-	11	3	8	1	65511.550	0.010	0.009	
163:	21	5	16	0	-	21	4	17	0	65664.903	0.020	-0.001	

164:	6	0	6	1	-	5	0	5	0	66085.041	0.010	0.000	
165:	7	2	6	1	-	6	2	4	1	66222.201	0.010	-0.001	
166:	10	2	8	1	-	9	3	7	1	66476.176	0.010	-0.001	
167:	22	4	18	0	-	22	3	19	0	66740.548	0.030	0.010	
168:	22	4	18	1	-	22	3	19	1	67177.940	0.020	0.011	
169:	7	2	5	0	-	6	2	4	1	67228.525	0.010	-0.002	
170:	25	5	20	0	-	25	4	21	0	67382.269	0.010	-0.000	
171:	25	5	20	1	-	25	4	21	1	67526.252	0.040	0.013	
172:	10	4	6	1	-	10	3	7	1	67607.705	0.010	0.010	
173:	10	4	6	0	-	10	3	7	0	67703.241	0.010	0.007	
174:	6	2	5	1	-	5	2	4	0	67841.412	0.010	-0.004	
175:	20	5	15	1	-	20	4	16	1	68091.665	0.040	0.004	
176:	6	5	2	1	-	5	5	1	0	68342.639	0.010	-0.003	0.4375
177:	6	5	1	1	-	5	5	0	0	68342.639	0.010	-0.003	0.5625
178:	6	4	2	1	-	5	4	1	0	68388.028	0.010	-0.000	
179:	20	5	15	0	-	20	4	16	0	68575.442	0.020	0.006	
180:	13	3	11	1	-	13	2	12	1	68601.918	0.010	-0.015	
181:	14	3	12	0	-	14	1	13	1	68705.596	0.040	-0.010	
182:	20	3	17	0	-	20	3	18	1	68747.382	0.030	-0.012	
183:	12	2	11	0	-	12	1	12	0	69374.280	0.020	-0.010	
184:	19	5	14	0	-	19	4	15	0	71030.467	0.030	-0.008	
185:	10	4	7	1	-	10	3	8	1	71740.609	0.020	-0.008	
186:	19	3	16	1	-	19	3	17	0	72774.840	0.030	0.009	
187:	8	2	7	0	-	7	2	5	0	73149.018	0.010	0.014	
188:	23	4	19	1	-	23	3	20	1	74787.756	0.030	0.002	
189:	8	7	1	0	-	7	7	0	1	74856.414	0.010	-0.007	0.5625
190:	8	7	2	0	-	7	7	1	1	74856.414	0.010	-0.007	0.4375
191:	8	6	3	0	-	7	6	2	1	74918.163	0.010	-0.008	0.5625
192:	8	6	2	0	-	7	6	1	1	74918.163	0.010	-0.008	0.4375
193:	18	5	13	0	-	18	4	14	0	74975.382	0.020	-0.006	
194:	28	6	22	1	-	28	5	23	1	75101.203	0.010	0.013	
195:	18	5	13	1	-	18	4	14	1	75130.282	0.010	-0.002	
196:	28	6	22	0	-	28	5	23	0	75192.534	0.010	-0.013	
197:	13	2	12	0	-	13	1	13	0	75419.872	0.030	-0.007	
198:	13	2	12	1	-	13	1	13	1	75467.501	0.030	-0.013	
199:	14	4	11	0	-	14	3	12	0	75586.832	0.010	-0.005	
200:	29	6	23	0	-	29	5	24	0	75826.205	0.010	-0.010	
201:	29	6	23	1	-	29	5	24	1	75846.870	0.020	0.018	
202:	14	4	11	1	-	14	3	12	1	75872.185	0.010	0.005	
203:	18	5	14	1	-	17	6	11	1	75955.134	0.020	0.011	
204:	27	6	21	1	-	27	5	22	1	75974.907	0.010	0.011	
205:	27	6	21	0	-	27	5	22	0	76169.247	0.010	-0.008	
206:	13	3	10	1	-	12	4	9	1	76240.156	0.030	-0.004	
207:	16	3	14	0	-	16	1	15	1	77478.179	0.010	-0.010	
208:	7	2	6	1	-	6	2	5	0	77521.974	0.005	-0.005	
209:	15	4	12	0	-	15	3	13	0	77571.698	0.010	-0.003	
210:	15	3	13	1	-	15	2	14	1	77664.947	0.020	-0.000	
211:	27	5	22	0	-	27	4	23	0	77761.183	0.010	0.008	
212:	20	3	17	1	-	20	2	18	1	77865.109	0.040	0.002	
213:	15	3	13	0	-	15	2	14	0	78119.197	0.010	-0.004	
214:	27	5	22	1	-	27	4	23	1	78177.943	0.020	0.012	
215:	30	6	24	0	-	30	5	25	0	78201.981	0.010	-0.002	
216:	16	2	14	1	-	16	2	15	0	78208.305	0.010	-0.006	
217:	26	6	20	1	-	26	5	21	1	78242.488	0.010	0.010	
218:	21	3	18	0	-	21	3	19	1	78345.271	0.050	-0.031	
219:	30	6	24	1	-	30	5	25	1	78345.504	0.030	0.023	
220:	20	3	17	0	-	20	2	18	0	78380.608	0.010	0.011	
221:	15	4	12	1	-	15	3	13	1	78434.093	0.020	0.000	
222:	7	2	5	0	-	6	2	5	0	78528.296	0.005	-0.005	
223:	26	6	20	0	-	26	5	21	0	78542.108	0.040	-0.005	
224:	7	6	2	1	-	6	6	1	0	78571.895	0.005	-0.007	0.5625

225:	7	6	1	1	-	6	6	0	0	78571.895	0.005	-0.007	0.4375
226:	17	5	12	0	-	17	4	13	0	78620.827	0.010	-0.009	
227:	7	4	4	1	-	6	4	3	0	78673.380	0.005	-0.005	
228:	7	4	3	1	-	6	4	2	0	78686.572	0.005	-0.002	
229:	17	5	12	1	-	17	4	13	1	78757.302	0.020	0.008	
230:	25	6	19	0	-	25	5	20	0	82055.795	0.020	-0.011	
231:	17	4	14	0	-	17	3	15	0	82783.446	0.020	0.005	
232:	17	3	15	0	-	17	1	16	1	82955.677	0.020	-0.015	
233:	24	4	20	1	-	24	4	21	0	83832.618	0.020	0.021	
234:	24	6	18	0	-	24	5	19	0	84527.020	0.030	-0.029	
235:	18	4	15	0	-	18	2	16	1	85493.756	0.020	0.008	
236:	35	13	23	1	-	34	14	20	1	85540.510	0.030	-0.013	0.5625
237:	35	13	22	1	-	34	14	21	1	85540.510	0.030	-0.013	0.4375
238:	35	13	23	0	-	34	14	20	0	85621.307	0.030	0.003	0.4375
239:	35	13	22	0	-	34	14	21	0	85621.307	0.030	0.003	0.5625
240:	28	5	23	1	-	28	4	24	1	85785.195	0.010	0.014	
241:	17	2	15	1	-	17	2	16	0	86294.598	0.020	0.002	
242:	24	6	19	1	-	24	5	19	0	86678.234	0.020	0.003	
243:	19	4	16	0	-	19	2	17	1	88328.109	0.010	0.003	
244:	18	2	16	1	-	18	1	17	1	89443.489	0.010	-0.009	
245:	15	5	11	1	-	15	4	12	1	90155.589	0.010	0.008	
246:	18	3	16	0	-	18	2	17	0	93476.789	0.010	-0.001	
247:	39	7	32	0	-	39	7	33	1	94050.332	0.030	-0.047	
248:	50	20	31	1	-	49	21	28	1	94297.196	0.020	-0.016	0.4375
249:	50	20	30	1	-	49	21	29	1	94297.196	0.020	-0.016	0.5625
250:	19	5	15	1	-	19	4	16	1	94371.044	0.010	0.014	
251:	50	20	30	0	-	49	21	29	0	94404.127	0.030	-0.002	0.4375
252:	50	20	31	0	-	49	21	28	0	94404.127	0.030	-0.002	0.5625
253:	48	19	30	1	-	47	20	27	1	94600.419	0.020	-0.031	0.4375
254:	48	19	29	1	-	47	20	28	1	94600.419	0.020	-0.031	0.5625
255:	48	19	29	0	-	47	20	28	0	94704.455	0.030	-0.011	0.4375
256:	48	19	30	0	-	47	20	27	0	94704.455	0.030	-0.011	0.5625
257:	46	18	29	1	-	45	19	26	1	94891.303	0.020	-0.018	0.4375
258:	46	18	28	1	-	45	19	27	1	94891.303	0.020	-0.018	0.5625
259:	22	3	19	1	-	22	2	20	1	94962.394	0.030	-0.003	
260:	46	18	28	0	-	45	19	27	0	94991.986	0.030	-0.029	0.4375
261:	46	18	29	0	-	45	19	26	0	94991.986	0.030	-0.029	0.5625
262:	44	17	28	1	-	43	18	25	1	95171.767	0.020	-0.044	0.4375
263:	44	17	27	1	-	43	18	26	1	95171.767	0.020	-0.044	0.5625
264:	44	17	28	0	-	43	18	25	0	95268.759	0.030	-0.021	0.5625
265:	44	17	27	0	-	43	18	26	0	95268.759	0.030	-0.021	0.4375
266:	20	5	16	1	-	20	4	17	1	95276.451	0.010	-0.001	
267:	42	16	27	1	-	41	17	24	1	95444.350	0.020	-0.019	0.4375
268:	42	16	26	1	-	41	17	25	1	95444.350	0.020	-0.019	0.5625
269:	42	16	27	0	-	41	17	24	0	95537.200	0.020	-0.020	0.5625
270:	42	16	26	0	-	41	17	25	0	95537.200	0.020	-0.020	0.4375
271:	40	15	26	1	-	39	16	23	1	95712.060	0.020	-0.017	0.4375
272:	40	15	25	1	-	39	16	24	1	95712.060	0.020	-0.017	0.5625
273:	38	14	25	1	-	37	15	22	1	95978.913	0.020	-0.009	0.4375
274:	38	14	24	1	-	37	15	23	1	95978.913	0.020	-0.009	0.5625
275:	38	14	25	0	-	37	15	22	0	96062.350	0.040	-0.031	0.5625
276:	38	14	24	0	-	37	15	23	0	96062.350	0.040	-0.031	0.4375
277:	36	13	24	1	-	35	14	21	1	96250.216	0.020	0.000	0.4375
278:	36	13	23	1	-	35	14	22	1	96250.216	0.020	0.000	0.5625
279:	36	13	24	0	-	35	14	21	0	96328.385	0.020	-0.003	0.5625
280:	36	13	23	0	-	35	14	22	0	96328.385	0.020	-0.003	0.4375
281:	20	5	16	1	-	19	6	13	1	96471.160	0.030	-0.009	
282:	30	10	21	1	-	29	11	18	1	97177.983	0.020	0.010	
283:	30	10	20	1	-	29	11	19	1	97185.421	0.020	0.016	
284:	30	10	21	0	-	29	11	18	0	97237.814	0.020	0.016	
285:	30	10	20	0	-	29	11	19	0	97244.907	0.020	0.014	

286:	28	9	20	1	-	27	10	17	1	97569.613	0.020	0.015	
287:	28	9	19	1	-	27	10	18	1	97605.728	0.020	0.011	
288:	28	9	20	0	-	27	10	17	0	97622.624	0.020	0.014	
289:	11	1	11	0	-	10	1	10	1	97648.681	0.005	-0.002	
290:	28	9	19	0	-	27	10	18	0	97657.319	0.020	0.013	
291:	11	0	11	0	-	10	0	10	1	97896.734	0.005	-0.005	
292:	26	8	19	1	-	25	9	16	1	98016.690	0.020	0.009	
293:	26	8	19	0	-	25	9	16	0	98063.113	0.020	0.012	
294:	26	8	18	1	-	25	9	17	1	98181.992	0.020	0.014	
295:	11	5	6	1	-	11	4	8	0	98200.339	0.020	0.006	
296:	26	8	18	0	-	25	9	17	0	98222.814	0.020	0.017	
297:	9	8	1	1	-	8	8	0	0	99040.148	0.010	-0.002	0.4375
298:	9	8	2	1	-	8	8	1	0	99040.148	0.010	-0.002	0.5625
299:	9	7	3	1	-	8	7	2	0	99046.860	0.010	-0.002	0.5625
300:	9	7	2	1	-	8	7	1	0	99046.860	0.010	-0.002	0.4375
301:	9	6	4	1	-	8	6	3	0	99082.055	0.005	0.001	0.5625
302:	9	6	3	1	-	8	6	2	0	99082.055	0.005	0.001	0.4375
303:	40	8	32	0	-	40	7	33	0	99238.954	0.030	-0.004	
304:	40	8	32	1	-	40	7	33	1	99342.999	0.010	-0.004	
305:	26	4	22	1	-	26	3	23	1	99516.469	0.010	0.014	
306:	18	1	17	0	-	18	1	18	1	99529.278	0.030	-0.013	
307:	35	6	29	0	-	35	6	30	1	99675.075	0.020	-0.006	
308:	44	8	36	0	-	44	8	37	1	99701.815	0.020	-0.009	
309:	17	1	16	1	-	17	0	17	1	99835.136	0.010	0.003	
310:	17	1	16	0	-	17	0	17	0	99878.290	0.010	-0.008	
311:	22	3	19	1	-	22	3	20	0	100743.709	0.010	0.010	
312:	22	4	19	0	-	22	2	20	1	101105.155	0.010	0.006	
313:	20	6	14	0	-	20	5	15	0	101132.226	0.020	-0.005	
314:	22	6	16	1	-	21	7	15	1	101202.588	0.020	0.027	
315:	18	3	16	1	-	18	1	17	0	101469.348	0.010	0.015	
316:	11	1	10	1	-	10	2	9	1	102064.077	0.005	-0.005	
317:	23	5	19	0	-	23	4	20	0	103649.672	0.010	0.016	
318:	11	2	10	0	-	10	2	9	1	103771.319	0.020	-0.000	
319:	11	0	11	0	-	10	1	10	0	104187.364	0.020	0.002	
320:	11	0	11	1	-	10	1	10	1	104196.935	0.020	-0.000	
321:	28	7	21	0	-	28	6	22	0	104277.341	0.010	-0.001	
322:	51	20	31	1	-	50	21	30	1	104689.479	0.030	0.004	0.4375
323:	51	20	32	1	-	50	21	29	1	104689.479	0.030	0.004	0.5625
324:	51	20	32	0	-	50	21	29	0	104793.063	0.030	0.037	0.4375
325:	51	20	31	0	-	50	21	30	0	104793.063	0.030	0.037	0.5625
326:	49	19	30	1	-	48	20	29	1	105038.239	0.030	-0.007	0.4375
327:	49	19	31	1	-	48	20	28	1	105038.239	0.030	-0.007	0.5625
328:	49	19	31	0	-	48	20	28	0	105139.056	0.030	0.012	0.4375
329:	49	19	30	0	-	48	20	29	0	105139.056	0.030	0.012	0.5625
330:	11	1	11	1	-	10	0	10	1	105288.819	0.010	0.005	
331:	11	1	11	0	-	10	0	10	0	105293.457	0.010	0.007	
332:	38	7	31	0	-	38	6	32	0	105515.128	0.020	-0.027	
333:	11	10	2	0	-	10	10	1	1	105518.135	0.005	0.000	0.4375
334:	11	10	1	0	-	10	10	0	1	105518.135	0.005	0.000	0.5625
335:	20	4	17	1	-	19	5	14	1	105536.649	0.020	0.023	
336:	11	9	3	0	-	10	9	2	1	105574.949	0.005	0.004	0.4375
337:	11	9	2	0	-	10	9	1	1	105574.949	0.005	0.004	0.5625
338:	11	8	4	0	-	10	8	3	1	105644.194	0.010	-0.005	0.4375
339:	11	8	3	0	-	10	8	2	1	105644.194	0.010	-0.005	0.5625
340:	11	1	10	0	-	10	1	9	1	105701.002	0.010	-0.006	
341:	45	17	28	1	-	44	18	27	1	105704.033	0.030	-0.026	0.4375
342:	45	17	29	1	-	44	18	26	1	105704.033	0.030	-0.026	0.5625
343:	11	7	5	0	-	10	7	4	1	105735.352	0.005	-0.002	0.5625
344:	11	7	4	0	-	10	7	3	1	105735.352	0.005	-0.002	0.4375
345:	45	17	29	0	-	44	18	26	0	105798.007	0.020	-0.020	0.4375
346:	45	17	28	0	-	44	18	27	0	105798.007	0.020	-0.020	0.5625

347:	11	3	9	0	-	10	3	8	1	105834.696	0.005	-0.005	
348:	20	5	15	1	-	19	6	14	1	105880.876	0.020	0.004	
349:	43	16	28	0	-	42	17	25	0	106116.468	0.030	-0.021	0.4375
350:	43	16	27	0	-	42	17	26	0	106116.468	0.030	-0.021	0.5625
351:	38	7	31	1	-	38	6	32	1	106125.125	0.010	-0.008	
352:	41	15	27	1	-	40	16	24	1	106347.033	0.030	-0.012	0.5625
353:	41	15	26	1	-	40	16	25	1	106347.033	0.030	-0.012	0.4375
354:	41	15	27	0	-	40	16	24	0	106432.466	0.030	-0.022	0.4375
355:	41	15	26	0	-	40	16	25	0	106432.466	0.030	-0.022	0.5625
356:	39	14	26	0	-	38	15	23	0	106751.061	0.030	-0.023	0.4375
357:	39	14	25	0	-	38	15	24	0	106751.061	0.030	-0.023	0.5625
358:	23	4	20	0	-	23	2	21	1	106807.092	0.020	0.009	
359:	24	5	20	0	-	24	3	21	1	106811.715	0.020	0.014	
360:	18	2	17	1	-	18	1	18	1	106895.162	0.020	-0.002	
361:	18	2	17	0	-	18	1	18	0	106955.389	0.010	0.001	
362:	40	7	33	0	-	40	7	34	1	107574.037	0.030	-0.048	
363:	11	3	9	1	-	10	3	7	1	107782.721	0.005	-0.003	
364:	27	4	23	1	-	27	3	24	1	108668.036	0.020	0.011	
365:	29	9	21	1	-	28	10	18	1	108676.151	0.020	0.010	
366:	29	9	21	0	-	28	10	18	0	108725.580	0.030	0.010	
367:	29	9	20	1	-	28	10	19	1	108743.053	0.030	0.025	
368:	5	3	2	1	-	4	2	2	0	108766.965	0.020	0.006	
369:	29	9	20	0	-	28	10	19	0	108789.866	0.020	0.011	
370:	35	8	27	1	-	35	7	28	1	108862.558	0.010	0.015	
371:	44	9	35	1	-	44	8	36	1	108981.153	0.030	-0.056	
372:	44	9	35	0	-	44	8	36	0	109101.100	0.020	0.014	
373:	23	3	20	1	-	23	3	21	0	109190.707	0.010	0.009	
374:	27	8	20	1	-	26	9	17	1	109236.790	0.030	0.015	
375:	10	8	3	1	-	9	8	2	0	109277.101	0.005	-0.000	0.4375
376:	10	8	2	1	-	9	8	1	0	109277.101	0.005	-0.000	0.5625
377:	10	9	2	1	-	9	9	1	0	109279.060	0.030	0.009	0.4375
378:	10	9	1	1	-	9	9	0	0	109279.060	0.030	0.009	0.5625
379:	21	4	18	1	-	21	2	19	0	109295.659	0.010	0.014	
380:	10	7	4	1	-	9	7	3	0	109298.663	0.010	-0.002	0.4375
381:	10	7	3	1	-	9	7	2	0	109298.663	0.010	-0.002	0.5625
382:	16	6	10	1	-	16	5	11	1	109369.551	0.010	0.005	
383:	16	6	10	0	-	16	5	11	0	109383.762	0.030	0.005	
384:	35	8	27	0	-	35	7	28	0	109439.085	0.010	0.004	
385:	27	7	20	0	-	27	6	21	0	109462.206	0.010	0.002	
386:	27	4	23	0	-	27	3	24	0	109536.262	0.020	0.035	
387:	23	6	18	0	-	22	7	15	0	109583.660	0.020	0.020	
388:	45	9	36	0	-	45	8	37	0	109663.999	0.010	0.021	
389:	45	9	36	1	-	45	8	37	1	109721.212	0.020	-0.035	
390:	25	7	19	1	-	24	8	16	1	109729.495	0.010	0.012	
391:	27	7	20	1	-	27	6	21	1	109736.380	0.010	0.005	
392:	25	5	21	0	-	25	3	22	1	110142.638	0.010	0.017	
393:	43	9	34	1	-	43	8	35	1	110194.324	0.020	-0.051	
394:	24	6	18	0	-	24	5	20	1	110467.738	0.020	-0.002	
395:	43	9	34	0	-	43	8	35	0	110474.727	0.020	0.010	
396:	28	4	24	0	-	28	4	25	1	110510.632	0.030	0.018	
397:	25	7	18	0	-	24	8	17	0	110920.477	0.020	0.005	
398:	25	7	18	1	-	24	8	17	1	110927.418	0.020	0.009	
399:	31	5	26	1	-	31	4	27	1	111391.129	0.020	0.002	
400:	36	6	30	0	-	36	6	31	1	112052.937	0.020	-0.014	
401:	11	6	5	0	-	11	5	6	0	112107.148	0.010	0.001	
402:	11	6	5	1	-	11	5	6	1	112123.189	0.010	0.004	
403:	11	6	6	0	-	11	5	7	0	112134.020	0.010	0.010	
404:	11	6	6	1	-	11	5	7	1	112150.628	0.010	-0.003	
405:	22	3	20	0	-	22	1	21	1	112179.806	0.020	0.004	
406:	46	9	37	0	-	46	8	38	0	112278.969	0.020	0.049	
407:	24	3	21	0	-	24	2	22	0	112332.810	0.010	-0.011	

408:	46	9	37	1	-	46	8	38	1	112523.407	0.020	0.016	
409:	31	5	26	0	-	31	4	27	0	112614.427	0.030	0.027	
410:	24	6	19	1	-	24	5	20	1	112618.935	0.030	0.013	
411:	25	3	22	0	-	25	3	23	1	112954.840	0.020	0.003	
412:	32	5	27	0	-	32	5	28	1	112989.265	0.030	0.023	
413:	19	1	18	1	-	19	0	19	1	113102.948	0.040	0.021	
414:	42	9	33	1	-	42	8	34	1	113143.305	0.020	-0.024	
415:	19	1	18	0	-	19	0	19	0	113160.885	0.010	0.002	
416:	24	3	21	1	-	24	2	22	1	113371.787	0.010	0.009	
417:	42	9	33	0	-	42	8	34	0	113563.041	0.020	0.016	
418:	27	4	23	1	-	27	4	24	0	113888.612	0.010	0.000	
419:	45	8	37	0	-	45	8	38	1	114082.505	0.020	0.020	
420:	39	7	32	0	-	39	6	33	0	114230.339	0.010	-0.023	
421:	43	8	35	0	-	43	7	36	0	114804.948	0.010	0.002	
422:	39	7	32	1	-	39	6	33	1	115039.495	0.020	-0.002	
423:	12	3	10	0	-	11	3	8	0	115096.489	0.010	0.006	
424:	35	6	29	1	-	35	6	30	0	115196.209	0.020	-0.006	
425:	12	1	11	0	-	11	1	10	1	115290.744	0.010	0.006	
426:	31	5	26	1	-	31	5	27	0	115394.556	0.020	-0.005	
427:	43	8	35	1	-	43	7	36	1	115424.742	0.020	0.035	
428:	50	19	32	1	-	49	20	29	1	115493.255	0.020	0.012	0.4375
429:	50	19	31	1	-	49	20	30	1	115493.255	0.020	0.012	0.5625
430:	50	19	31	0	-	49	20	30	0	115590.596	0.020	0.041	0.4375
431:	50	19	32	0	-	49	20	29	0	115590.596	0.020	0.041	0.5625
432:	12	11	1	0	-	11	11	0	1	115739.964	0.020	0.001	0.4375
433:	12	11	2	0	-	11	11	1	1	115739.964	0.020	0.001	0.5625
434:	12	10	2	0	-	11	10	1	1	115796.040	0.010	-0.003	0.4375
435:	12	10	3	0	-	11	10	2	1	115796.040	0.010	-0.003	0.5625
436:	12	9	3	0	-	11	9	2	1	115862.261	0.010	0.002	0.4375
437:	12	9	4	0	-	11	9	3	1	115862.261	0.010	0.002	0.5625
438:	48	18	31	1	-	47	19	28	1	115880.463	0.010	0.014	0.4375
439:	48	18	30	1	-	47	19	29	1	115880.463	0.010	0.014	0.5625
440:	48	18	30	0	-	47	19	29	0	115974.686	0.020	0.012	0.4375
441:	48	18	31	0	-	47	19	28	0	115974.686	0.020	0.012	0.5625
442:	23	4	20	0	-	22	5	17	0	116021.184	0.030	0.006	
443:	13	1	13	0	-	12	1	12	1	116149.656	0.010	-0.013	
444:	22	5	18	1	-	21	6	15	1	116319.529	0.020	0.004	
445:	24	4	21	0	-	24	3	22	0	116739.156	0.020	0.011	
446:	22	5	18	0	-	21	6	15	0	116742.499	0.030	0.051	
447:	16	0	16	1	-	15	0	15	0	157827.080	0.010	0.016	
448:	20	1	20	1	-	19	1	19	0	194695.051	0.010	0.014	
449:	20	0	20	1	-	19	0	19	0	194697.921	0.010	0.014	
450:	27	3	25	1	-	26	3	24	0	272023.564	0.005	-0.002	
451:	27	2	25	1	-	26	2	24	0	272100.077	0.010	0.006	
452:	27	8	20	0	-	26	8	19	1	272484.537	0.010	0.004	
453:	30	1	30	0	-	29	1	29	1	272572.822	0.010	0.010	0.5625
454:	30	0	30	0	-	29	0	29	1	272572.822	0.010	0.010	0.4375
455:	26	16	11	1	-	25	16	10	0	272875.160	0.010	-0.012	0.4375
456:	26	16	10	1	-	25	16	9	0	272875.160	0.010	-0.012	0.5625
457:	26	15	12	1	-	25	15	11	0	272882.375	0.010	-0.006	0.4375
458:	26	15	11	1	-	25	15	10	0	272882.375	0.010	-0.006	0.5625
459:	26	17	10	1	-	25	17	9	0	272894.412	0.030	-0.003	0.4375
460:	26	17	9	1	-	25	17	8	0	272894.412	0.030	-0.003	0.5625
461:	26	14	13	1	-	25	14	12	0	272921.870	0.010	0.006	0.4375
462:	26	14	12	1	-	25	14	11	0	272921.870	0.010	0.006	0.5625
463:	26	18	9	1	-	25	18	8	0	272935.923	0.010	-0.008	0.4375
464:	26	18	8	1	-	25	18	7	0	272935.923	0.010	-0.008	0.5625
465:	26	19	8	1	-	25	19	7	0	272996.653	0.020	-0.007	0.4375
466:	26	19	7	1	-	25	19	6	0	272996.653	0.020	-0.007	0.5625
467:	26	13	14	1	-	25	13	13	0	273001.932	0.010	0.011	0.4375
468:	26	13	13	1	-	25	13	12	0	273001.932	0.010	0.011	0.5625

469:	26	20	7	1	-	25	20	6	0	273074.309	0.020	-0.020	0.4375
470:	26	20	6	1	-	25	20	5	0	273074.309	0.020	-0.020	0.5625
471:	26	12	15	1	-	25	12	14	0	273134.755	0.010	0.005	0.4375
472:	26	12	14	1	-	25	12	13	0	273134.755	0.010	0.005	0.5625
473:	26	11	16	1	-	25	11	15	0	273338.971	0.010	0.018	0.4375
474:	26	11	15	1	-	25	11	14	0	273338.971	0.010	0.018	0.5625
475:	28	2	27	1	-	27	2	26	0	274778.739	0.010	0.001	
476:	28	1	27	1	-	27	1	26	0	274780.652	0.010	-0.006	
477:	29	3	27	0	-	28	3	26	1	276546.485	0.010	-0.021	
478:	29	2	27	0	-	28	2	26	1	276572.297	0.010	-0.015	
479:	29	1	29	1	-	28	1	28	0	277620.484	0.010	-0.000	0.5625
480:	29	0	29	1	-	28	0	28	0	277620.484	0.010	-0.000	0.4375
481:	28	25	3	0	-	27	25	2	1	279578.490	0.020	-0.040	0.4375
482:	28	25	4	0	-	27	25	3	1	279578.490	0.020	-0.040	0.5625
483:	28	24	4	0	-	27	24	3	1	279618.103	0.020	-0.014	0.4375
484:	28	24	5	0	-	27	24	4	1	279618.103	0.020	-0.014	0.5625
485:	28	23	5	0	-	27	23	4	1	279660.151	0.010	-0.007	0.4375
486:	28	23	6	0	-	27	23	5	1	279660.151	0.010	-0.007	0.5625
487:	30	0	30	0	-	29	1	29	0	279693.378	0.010	0.008	0.4375
488:	30	1	30	0	-	29	0	29	0	279693.378	0.010	0.008	0.5625
489:	28	22	6	0	-	27	22	5	1	279705.653	0.040	-0.028	0.4375
490:	28	22	7	0	-	27	22	6	1	279705.653	0.040	-0.028	0.5625
491:	30	0	30	1	-	29	1	29	1	279706.642	0.030	0.015	0.5625
492:	30	1	30	1	-	29	0	29	1	279706.642	0.030	0.015	0.4375
493:	28	21	7	0	-	27	21	6	1	279755.946	0.020	0.040	0.4375
494:	28	21	8	0	-	27	21	7	1	279755.946	0.020	0.040	0.5625
495:	28	20	8	0	-	27	20	7	1	279812.290	0.020	-0.015	0.4375
496:	28	20	9	0	-	27	20	8	1	279812.290	0.020	-0.015	0.5625
497:	28	19	9	0	-	27	19	8	1	279876.671	0.010	-0.021	0.4375
498:	28	19	10	0	-	27	19	9	1	279876.671	0.010	-0.021	0.5625
499:	28	18	10	0	-	27	18	9	1	279951.376	0.020	0.029	0.4375
500:	28	18	11	0	-	27	18	10	1	279951.376	0.020	0.029	0.5625
501:	28	5	24	0	-	27	5	23	1	280863.326	0.010	-0.003	
502:	31	1	31	0	-	30	1	30	1	281750.779	0.010	0.017	0.4375
503:	31	0	31	0	-	30	0	30	1	281750.779	0.010	0.017	0.5625
504:	27	18	9	1	-	26	18	8	0	283122.627	0.010	-0.013	0.4375
505:	27	18	10	1	-	26	18	9	0	283122.627	0.010	-0.013	0.5625
506:	28	7	21	0	-	27	7	20	1	285084.746	0.010	0.005	
507:	29	4	25	1	-	28	5	24	1	286506.824	0.010	-0.009	
508:	30	1	30	1	-	29	1	29	0	286827.174	0.005	-0.010	0.4375
509:	30	0	30	1	-	29	0	29	0	286827.174	0.005	-0.010	0.5625
510:	28	7	22	1	-	27	7	20	1	287571.036	0.010	-0.008	
511:	31	0	31	0	-	30	1	30	0	288884.578	0.010	0.002	0.5625
512:	31	1	31	0	-	30	0	30	0	288884.578	0.010	0.002	0.4375
513:	31	0	31	1	-	30	1	30	1	288898.381	0.020	0.012	0.4375
514:	31	1	31	1	-	30	0	30	1	288898.381	0.020	0.012	0.5625
515:	29	5	25	0	-	28	5	24	1	290826.057	0.010	0.006	
516:	32	1	32	0	-	31	1	31	1	290925.871	0.010	-0.004	0.5625
517:	32	0	32	0	-	31	0	31	1	290925.871	0.010	-0.004	0.4375
518:	42	15	27	0	-	42	14	28	0	291924.026	0.040	-0.038	0.4372
519:	42	15	28	0	-	42	14	29	0	291924.026	0.040	-0.038	0.5628
520:	29	10	20	0	-	28	10	19	1	292114.241	0.030	-0.013	
521:	29	10	19	0	-	28	10	18	1	292115.939	0.030	-0.013	
522:	30	3	28	1	-	29	2	27	1	292704.446	0.030	-0.004	
523:	15	7	9	1	-	14	6	9	0	293060.527	0.040	0.024	
524:	30	2	29	1	-	29	2	28	0	293177.329	0.040	-0.003	
525:	30	1	29	1	-	29	1	28	0	293178.044	0.040	0.048	
526:	28	18	10	1	-	27	18	9	0	293308.429	0.030	-0.014	0.5618
527:	28	18	11	1	-	27	18	10	0	293308.429	0.030	-0.014	0.4382
528:	29	4	25	0	-	28	4	24	1	293321.161	0.020	0.026	
529:	28	13	16	1	-	27	13	15	0	293506.589	0.015	0.012	0.4374

530:	28	13	15	1	-	27	13	14	0	293506.589	0.015	0.012	0.5626
531:	29	7	23	0	-	28	7	22	1	293930.936	0.010	0.013	
532:	28	7	21	0	-	27	7	21	0	294608.982	0.020	0.015	
533:	29	7	23	1	-	28	7	21	1	294858.737	0.020	0.046	
534:	19	6	13	0	-	18	5	13	1	296128.230	0.060	-0.003	
535:	28	4	24	1	-	27	4	23	0	296284.225	0.010	-0.011	
536:	29	7	23	0	-	28	7	21	0	296417.227	0.030	0.001	
537:	28	7	22	1	-	27	7	21	0	297095.276	0.005	0.006	
538:	30	5	26	0	-	29	5	25	1	297483.131	0.010	0.010	
539:	29	7	22	0	-	28	7	21	1	297759.963	0.010	-0.003	
540:	30	4	26	0	-	29	5	25	0	298174.705	0.010	0.004	
541:	30	4	26	1	-	29	5	25	1	301091.201	0.010	-0.002	
542:	31	4	28	0	-	30	4	27	1	301574.229	0.010	-0.001	
543:	29	5	25	1	-	28	5	24	0	301591.762	0.020	-0.006	
544:	30	4	26	0	-	29	4	25	1	302493.913	0.010	-0.006	
545:	28	5	24	0	-	27	4	23	0	302829.739	0.010	-0.001	
546:	30	7	24	0	-	29	7	22	0	302903.434	0.030	0.033	
547:	29	4	25	1	-	28	4	24	0	304482.440	0.030	-0.001	
548:	30	7	24	0	-	29	7	23	1	305804.671	0.010	-0.005	
549:	29	7	23	1	-	28	7	22	0	306148.539	0.010	-0.002	
550:	29	7	22	1	-	28	7	22	1	307790.500	0.020	0.030	
551:	31	3	28	1	-	30	4	27	1	308131.426	0.010	-0.008	
552:	31	4	27	0	-	30	4	26	1	308482.313	0.010	0.013	
553:	29	5	25	0	-	28	4	24	0	308801.662	0.010	0.003	
554:	30	7	23	0	-	29	7	22	1	308863.315	0.010	-0.011	
555:	29	7	22	0	-	28	7	22	0	309049.809	0.010	-0.007	
556:	32	5	27	1	-	31	6	26	1	309230.606	0.020	-0.020	
557:	34	1	34	0	-	33	1	33	1	309267.296	0.010	0.021	0.5625
558:	34	0	34	0	-	33	0	33	1	309267.296	0.010	0.021	0.4375
559:	36	16	20	0	-	36	15	22	1	309303.773	0.040	-0.060	0.4374
560:	36	16	21	0	-	36	15	21	1	309303.773	0.040	-0.060	0.5626
561:	20	5	15	0	-	19	4	16	0	309305.995	0.020	-0.010	
562:	29	7	22	1	-	28	7	21	0	310276.821	0.020	0.048	
563:	31	4	27	0	-	30	5	26	0	312090.394	0.020	0.012	
564:	33	1	33	1	-	32	1	32	0	314436.798	0.010	0.002	0.5625
565:	33	0	33	1	-	32	0	32	0	314436.798	0.010	0.002	0.4375
566:	30	5	26	1	-	29	4	25	1	314903.644	0.020	-0.002	
567:	31	8	24	0	-	30	8	23	1	314923.118	0.020	-0.006	
568:	31	8	23	0	-	30	8	22	1	315671.326	0.020	0.005	
569:	34	2	33	0	-	33	2	32	1	315813.190	0.020	-0.015	0.5625
570:	34	1	33	0	-	33	1	32	1	315813.190	0.020	-0.015	0.4375
571:	31	7	25	0	-	30	7	24	1	315892.110	0.010	0.002	
572:	30	9	21	1	-	29	9	20	0	315961.887	0.030	0.012	
573:	30	16	14	0	-	30	15	15	0	316320.117	0.020	-0.022	0.4375
574:	30	16	15	0	-	30	15	16	0	316320.117	0.020	-0.022	0.5625
575:	30	16	15	1	-	30	15	16	1	316364.496	0.030	-0.045	0.4375
576:	30	16	14	1	-	30	15	15	1	316364.496	0.030	-0.045	0.5625
577:	20	6	14	0	-	19	5	15	0	316698.077	0.030	0.010	
578:	30	7	24	1	-	29	7	23	0	316868.229	0.010	-0.009	
579:	31	5	27	1	-	30	4	26	1	319122.963	0.010	0.008	
580:	30	7	23	1	-	29	7	22	0	320352.195	0.020	0.032	
581:	32	25	7	0	-	31	25	6	1	320725.842	0.030	0.062	0.4375
582:	32	25	8	0	-	31	25	7	1	320725.842	0.030	0.062	0.5625
583:	33	2	32	1	-	32	2	31	0	320762.641	0.020	-0.001	0.5625
584:	33	1	32	1	-	32	1	31	0	320762.641	0.020	-0.001	0.4375
585:	32	24	8	0	-	31	24	7	1	320764.991	0.030	0.042	0.4375
586:	32	24	9	0	-	31	24	8	1	320764.991	0.030	0.042	0.5625
587:	32	23	9	0	-	31	23	8	1	320809.295	0.010	0.024	0.4375
588:	32	23	10	0	-	31	23	9	1	320809.295	0.010	0.024	0.5625
589:	32	22	10	0	-	31	22	9	1	320860.172	0.010	-0.001	0.4375
590:	32	22	11	0	-	31	22	10	1	320860.172	0.010	-0.001	0.5625

591:	32	21	11	0	-	31	21	10	1	320919.361	0.010	-0.006	0.4375
592:	32	21	12	0	-	31	21	11	1	320919.361	0.010	-0.006	0.5625
593:	32	20	12	0	-	31	20	11	1	320988.936	0.020	-0.014	0.4375
594:	32	20	13	0	-	31	20	12	1	320988.936	0.020	-0.014	0.5625
595:	32	19	13	0	-	31	19	12	1	321071.519	0.020	-0.015	0.4375
596:	32	19	14	0	-	31	19	13	1	321071.519	0.020	-0.015	0.5625
597:	32	18	14	0	-	31	18	13	1	321170.432	0.010	-0.007	0.4375
598:	32	18	15	0	-	31	18	14	1	321170.432	0.010	-0.007	0.5625
599:	32	17	15	0	-	31	17	14	1	321289.948	0.020	-0.015	0.4375
600:	32	17	16	0	-	31	17	15	1	321289.948	0.020	-0.015	0.5625
601:	32	16	16	0	-	31	16	15	1	321435.807	0.020	0.013	0.4375
602:	32	16	17	0	-	31	16	16	1	321435.807	0.020	0.013	0.5625
603:	32	15	17	0	-	31	15	16	1	321615.639	0.020	-0.003	0.4375
604:	32	15	18	0	-	31	15	17	1	321615.639	0.020	-0.003	0.5625
605:	32	14	18	0	-	31	14	17	1	321840.239	0.020	-0.004	0.4375
606:	32	14	19	0	-	31	14	18	1	321840.239	0.020	-0.004	0.5625
607:	30	7	23	1	-	29	7	23	1	323253.435	0.010	-0.003	
608:	32	6	27	0	-	31	6	26	1	323690.575	0.020	-0.003	
609:	31	18	13	1	-	30	18	12	0	323861.051	0.020	0.016	0.4375
610:	31	18	14	1	-	30	18	13	0	323861.051	0.020	0.016	0.5625
611:	31	17	14	1	-	30	17	13	0	323864.573	0.010	0.003	0.4375
612:	31	17	15	1	-	30	17	14	0	323864.573	0.010	0.003	0.5625
613:	31	19	12	1	-	30	19	11	0	323885.574	0.020	0.004	0.4375
614:	31	19	13	1	-	30	19	12	0	323885.574	0.020	0.004	0.5625
615:	31	16	15	1	-	30	16	14	0	323901.524	0.010	-0.005	0.4375
616:	31	16	16	1	-	30	16	15	0	323901.524	0.010	-0.005	0.5625
617:	31	20	11	1	-	30	20	10	0	323934.223	0.030	0.028	0.4375
618:	31	20	12	1	-	30	20	11	0	323934.223	0.030	0.028	0.5625
619:	31	15	16	1	-	30	15	15	0	323979.233	0.010	-0.014	0.4375
620:	31	15	17	1	-	30	15	16	0	323979.233	0.010	-0.014	0.5625
621:	31	21	10	1	-	30	21	9	0	324003.952	0.020	0.050	0.4375
622:	31	21	11	1	-	30	21	10	0	324003.952	0.020	0.050	0.5625
623:	31	14	17	1	-	30	14	16	0	324107.994	0.010	-0.009	0.4375
624:	31	14	18	1	-	30	14	17	0	324107.994	0.010	-0.009	0.5625
625:	32	7	26	0	-	31	7	25	1	326128.532	0.020	0.029	
626:	33	3	30	0	-	32	4	29	0	326644.384	0.040	-0.052	
627:	49	9	41	1	-	48	10	39	0	326656.818	0.060	0.137	
628:	23	6	17	0	-	22	5	17	1	327181.454	0.020	-0.012	
629:	17	8	10	0	-	16	7	9	0	327183.449	0.015	0.015	
630:	31	7	25	1	-	30	7	24	0	327291.012	0.010	-0.004	
631:	36	1	36	0	-	35	1	35	1	327596.365	0.020	-0.007	0.5622
632:	36	0	36	0	-	35	0	35	1	327596.365	0.020	-0.007	0.4378
633:	34	4	31	0	-	33	4	30	1	329062.502	0.010	-0.001	
634:	34	3	31	0	-	33	3	30	1	329104.365	0.020	0.007	
635:	34	2	33	1	-	33	2	32	0	329954.040	0.010	0.010	0.4375
636:	34	1	33	1	-	33	1	32	0	329954.040	0.010	0.010	0.5625
637:	35	1	35	1	-	34	1	34	0	332833.735	0.010	-0.001	0.4375
638:	35	0	35	1	-	34	0	34	0	332833.735	0.010	-0.001	0.5625
639:	24	6	18	0	-	23	5	18	1	333269.754	0.015	0.006	
640:	33	6	28	0	-	32	6	27	1	333486.487	0.020	0.005	
641:	33	4	30	1	-	32	4	29	0	333636.056	0.020	-0.003	
642:	33	3	30	1	-	32	3	29	0	333714.989	0.010	-0.014	
643:	28	17	11	0	-	28	16	12	0	337019.546	0.025	-0.035	0.4375
644:	28	17	12	0	-	28	16	13	0	337019.546	0.025	-0.035	0.5625
645:	32	5	27	1	-	31	5	26	0	341088.524	0.020	-0.037	
646:	25	6	19	0	-	24	5	19	1	341865.836	0.030	0.021	
647:	36	1	36	1	-	35	1	35	0	342029.188	0.020	0.041	0.4375
648:	36	0	36	1	-	35	0	35	0	342029.188	0.020	0.041	0.5625
649:	31	17	14	1	-	31	16	16	0	343214.298	0.030	-0.021	0.4374
650:	31	17	15	1	-	31	16	15	0	343214.298	0.030	-0.021	0.5626
651:	34	6	29	0	-	33	6	28	1	343293.975	0.010	0.003	

652:	37	2	36	0	-	36	2	35	1	343300.723	0.010	-0.014	0.4375
653:	37	1	36	0	-	36	1	35	1	343300.723	0.010	-0.014	0.5625
654:	33	6	28	1	-	32	6	27	0	344538.021	0.020	-0.016	
655:	34	8	27	0	-	33	8	26	1	345832.886	0.010	-0.007	
656:	38	0	38	0	-	37	0	37	1	345912.524	0.005	-0.002	0.4375
657:	38	1	38	0	-	37	1	37	1	345912.524	0.005	-0.002	0.5625
658:	34	8	27	1	-	33	8	25	1	346393.793	0.030	-0.014	
659:	34	7	28	0	-	33	7	27	1	346462.657	0.020	0.002	
660:	34	5	29	0	-	33	5	28	1	346630.908	0.010	0.030	
661:	33	8	25	0	-	32	8	25	0	346861.495	0.010	0.008	
662:	19	8	12	1	-	18	7	11	1	347298.288	0.020	-0.001	
663:	35	4	31	0	-	34	5	30	0	351056.047	0.010	-0.008	
664:	35	4	31	1	-	34	5	30	1	351060.445	0.040	-0.047	
665:	23	6	17	0	-	22	5	18	0	351443.117	0.015	-0.019	
666:	38	2	37	0	-	37	1	36	0	359571.012	0.020	-0.009	
667:	24	6	19	1	-	23	5	19	0	366237.520	0.020	0.002	