Theoretical study of the addition patterns of C₆₀ fluorination: C₆₀F_n (n = 1-60).

Gregory Van Lier,^{a,b} Montserrat Cases,^c Christopher P. Ewels,^{d,e} Roger Taylor,^f Paul Geerlings^{*,b}

Table of contents: Optimized geometries in Cartesian coordinates of the AM1 optimizations are provided for all structures discussed in detail in the paper and listed in Table 1.

C ₆₀ -----	S3
1,2-C ₆₀ F ₂ -----	S5
2,3-C ₆₀ F ₂ -----	S7
1,4-C ₆₀ F ₂ -----	S10
1,2,3,4-C ₆₀ F ₄ -----	S12
‘O’-C ₆₀ F ₄ -----	S15
‘O’-C ₆₀ F ₆ -----	S17
‘O’-C ₆₀ F ₈ -----	S20
‘O’-C ₆₀ F ₁₀ -----	S22
‘O’-C ₆₀ F ₁₂ -----	S25
‘S’-C ₆₀ F ₆ -----	S28
‘S’-C ₆₀ F ₈ -----	S30
‘S’-C ₆₀ F ₁₀ -----	S33
‘S’-C ₆₀ F ₁₂ -----	S36
‘S’-C ₆₀ F ₁₄ -----	S38
‘S’-C ₆₀ F ₁₆ -----	S41
‘S’-C ₆₀ F ₁₈ -----	S44
‘S’-C ₆₀ F ₂₀ -----	S47
‘T’-C ₆₀ F ₆ -----	S50
‘T’-C ₆₀ F ₈ -----	S53
‘bis’-C ₆₀ F ₈ -----	S55
‘T’-C ₆₀ F ₁₀ -----	S58

$'bis'$ -C ₆₀ F ₁₀	S61
$'T'$ -C ₆₀ F ₁₂	S63
$'bis'$ -C ₆₀ F ₁₂	S66
$'T'$ -C ₆₀ F ₁₄	S69
$'bis'$ -C ₆₀ F ₁₄	S72
$'T'$ -C ₆₀ F ₁₆	S75
$'bis'$ -C ₆₀ F ₁₆	S78
$'T'$ -C ₆₀ F ₁₈	S81
$'C'$ -C ₆₀ F ₁₆	S84
$'C'$ -C ₆₀ F ₁₈	S86
$'C'$ -C ₆₀ F ₂₀	S89
C ₆₀ F ₃₆	S93
C ₆₀ F ₄₈	S96

Supporting information:

Optimized geometries in Cartesian coordinates of the AM1 optimizations:

C ₆₀			
C	-1.7562316885	-3.0365001826	0.588940185
C	-1.9940571293	-2.3045427499	1.834211417
C	-3.4305887252	-0.7319454225	0.588940185
C	-2.8079479432	-1.1843181452	1.834211417
C	-0.384805354	-1.1843090977	3.3317859089
C	-2.4231347698	0.0000000032	2.6038217508
C	-0.7487898266	-2.3045381117	2.6038217508
C	-1.2452562786	0.0000000016	3.3317859089
C	-2.8079479401	1.1843181527	1.834211417
C	0.2586498556	-3.0364916225	1.834211417
C	1.0074334927	0.7319432745	3.3317859089
C	1.0074334907	-0.7319432772	3.3317859089
C	-1.9940571232	2.3045427552	1.834211417
C	-3.4305887232	0.7319454316	0.588940185
C	-1.7562316805	3.0365001873	0.588940185
C	-0.7487898205	2.3045381137	2.6038217508
C	0.2586498637	3.0364916218	1.834211417
C	-0.3848053509	1.1843090987	3.3317859089
C	2.9678023452	-0.692336884	1.834211417
C	1.5755528587	-2.6086039007	1.834211417
C	-0.3639887439	3.4888673373	0.588940185
C	1.5755528656	2.6086038965	1.834211417
C	2.3451778545	2.6086057451	0.588940185

C	1.9603572103	1.4242828794	2.6038217508
C	2.967802347	0.6923368761	1.834211417
C	2.3451778476	-2.6086057513	0.588940185
C	-0.3639887531	-3.4888673363	0.588940185
C	1.9603572066	-1.4242828846	2.6038217508
C	3.2056313042	-1.4242931735	0.588940185
C	3.205631308	1.4242931651	0.588940185
C	-2.9678023452	0.692336884	-1.834211417
C	0.3639887531	3.4888673363	-0.588940185
C	0.3639887439	-3.4888673373	-0.588940185
C	-1.9603572103	-1.4242828794	-2.6038217508
C	-1.5755528587	2.6086039007	-1.834211417
C	-3.205631308	-1.4242931651	-0.588940185
C	-2.3451778476	2.6086057513	-0.588940185
C	-1.9603572066	1.4242828846	-2.6038217508
C	-3.2056313042	1.4242931735	-0.588940185
C	-2.3451778545	-2.6086057451	-0.588940185
C	1.7562316805	-3.0365001873	-0.588940185
C	1.9940571232	-2.3045427552	-1.834211417
C	3.4305887232	-0.7319454316	-0.588940185
C	2.8079479401	-1.1843181527	-1.834211417
C	0.3848053509	-1.1843090987	-3.3317859089
C	2.4231347698	-0.0000000032	-2.6038217508
C	0.7487898205	-2.3045381137	-2.6038217508
C	1.2452562786	-0.0000000016	-3.3317859089
C	2.8079479432	1.1843181452	-1.834211417
C	-0.2586498637	-3.0364916218	-1.834211417

C	-1.0074334907	0.7319432772	-3.3317859089
C	-1.0074334927	-0.7319432745	-3.3317859089
C	1.9940571293	2.3045427499	-1.834211417
C	3.4305887252	0.7319454225	-0.588940185
C	1.7562316885	3.0365001826	-0.588940185
C	0.7487898266	2.3045381117	-2.6038217508
C	-0.2586498556	3.0364916225	-1.834211417
C	0.384805354	1.1843090977	-3.3317859089
C	-2.967802347	-0.6923368761	-1.834211417
C	-1.5755528656	-2.6086038965	-1.834211417

1,2-C ₆₀ F ₂			
C	3.31669243	1.50497357	0.80811443
C	3.07710720	0.77183171	2.05205320
C	3.31385825	-1.34407005	0.80585627
C	3.07635396	-0.61322644	2.05110751
C	1.11630415	0.81100785	3.54941057
C	2.06876442	-1.34535606	2.82086234
C	2.06914254	1.50335410	2.82148183
C	1.11627318	-0.65293909	3.55004716
C	1.68325446	-2.52888892	2.05156792
C	1.68480170	2.68803865	2.05210175
C	-1.13633863	0.07914583	3.55259251
C	-0.27603127	1.26326861	3.55009780
C	0.36707951	-2.95841514	2.05491148
C	2.44918788	-2.52621292	0.80317905

C	-0.25805000	-3.40413289	0.80804951
C	-0.64000701	-2.22672191	2.82558668
C	-1.88405702	-2.22383674	2.05414043
C	-0.27571076	-1.10532373	3.55256488
C	-1.88507935	2.38213845	2.05170110
C	0.36726939	3.11523782	2.05120454
C	-1.64147530	-2.94755201	0.80463805
C	-2.69706560	-1.10490439	2.05416895
C	-3.31046518	-0.65055913	0.80470093
C	-2.31544505	0.07915075	2.82565164
C	-2.70022410	1.26305265	2.05502976
C	-0.25447627	3.56695680	0.80598803
C	2.45606648	2.68944452	0.80814590
C	-0.64031896	2.38310906	2.82096176
C	-1.64593165	3.10981259	0.80333317
C	-3.31729026	0.80625002	0.80816653
C	2.08707358	-2.21157432	-1.61730490
C	-2.21477162	-2.51022793	-0.38098851
C	1.86773568	3.11871880	-0.37012971
C	2.52400484	0.07916238	-2.37762136
C	-0.16799182	-2.94316074	-1.61507165
C	3.54232031	-0.65123409	-0.37083761
C	0.46208932	-3.39231759	-0.37588778
C	0.84800181	-2.20492081	-2.39124977
C	1.85399642	-2.94523365	-0.37444802
C	3.54317591	0.81284772	-0.37019030
C	0.47501375	3.57023157	-0.37072520

C	-0.14543252	3.11098574	-1.61501443
C	-2.22836770	2.67323705	-0.37429444
C	-1.45862225	2.66829420	-1.61717778
C	0.47792112	1.24833247	-3.09271196
C	-1.83512078	1.48781459	-2.39115292
C	0.85501551	2.37615566	-2.37755741
C	-0.90306883	0.80751223	-3.12471912
C	-2.85111433	0.74957471	-1.61497465
C	2.10421865	2.38379349	-1.61381724
C	0.48891740	-1.10826360	-3.12476948
C	1.33483486	0.06897981	-3.09274279
C	-2.86445441	-0.61766466	-1.62630380
C	-3.08360275	1.48755367	-0.37575313
C	-3.07168449	-1.33087464	-0.38095593
C	-2.07513717	-1.50771674	-2.61239277
C	-1.47246571	-2.53343871	-1.62634926
C	-0.96232690	-0.69912957	-3.46253445
C	2.91381329	-1.09939314	-1.61512037
C	2.91722731	1.26486120	-1.61384560
F	-2.90994261	-2.11425678	-3.53092143
F	-1.25364913	-0.91076899	-4.79626079

2,3-C ₆₀ F ₂			
C	-1.733338	1.425546	2.90341
C	-2.858504	0.693384	2.321484
C	-2.8585	-0.692705	2.321682

C	-1.733335	-1.424696	2.903818
C	-0.669595	-0.731392	3.455407
C	-0.669601	0.732393	3.455179
C	-1.487038	2.609923	2.076503
C	-2.465012	2.611441	0.986815
C	-3.310071	1.424944	1.137325
C	-3.735991	0.731661	0.016706
C	-3.310038	-1.424594	1.137721
C	-1.487044	-2.609317	2.077259
C	-0.190946	-3.034621	1.84188
C	0.934955	-2.292189	2.410329
C	0.701412	-1.177742	3.197812
C	1.53957	0.000431	3.026379
C	0.701416	1.178657	3.197482
C	0.934979	2.292895	2.409692
C	-0.190923	3.035153	1.841012
C	-2.093933	3.043249	-0.27481
C	-0.72427	3.501618	-0.520298
C	0.204185	3.497009	0.510195
C	1.571743	3.048013	0.26226
C	2.026108	2.282654	1.442218
C	2.834422	1.18117	1.296922
C	2.56129	0.000284	2.075751
C	2.834395	-1.180816	1.29724
C	2.026115	-2.28227	1.442872
C	-2.465005	-2.611139	0.987559
C	0.971209	-2.619325	-2.073174

C	-0.32935	-3.051276	-1.851787
C	-1.448589	-2.312896	-2.432161
C	-1.208846	-1.18647	-3.20541
C	0.162294	-0.739586	-3.43038
C	2.360513	-0.717569	-2.253688
C	2.804129	-1.421355	-1.150736
C	1.946104	-2.614602	-0.984054
C	1.571747	-3.047954	0.263108
C	0.204167	-3.496856	0.511175
C	-0.724275	-3.501726	-0.519303
C	-2.543384	-2.309086	-1.45889
C	-3.339297	-1.185485	-1.317329
C	-3.091228	-0.000311	-2.141063
C	-2.05487	-0.000433	-3.058319
C	-1.208856	1.185544	-3.205737
C	0.162286	0.738572	-3.430588
C	1.214862	1.427057	-2.876849
C	2.36049	0.716894	-2.253867
C	3.582172	-0.830445	0.000566
C	3.582192	0.830457	0.000336
C	2.80419	1.42104	-1.151141
C	1.946154	2.614333	-0.984783
C	0.97122	2.618729	-2.073904
C	-0.329345	3.050746	-1.852638
C	-1.448563	2.312125	-2.432755
C	-2.543404	2.308677	-1.459555
C	-3.339325	1.185105	-1.317644

C	-2.093934	-3.043317	-0.273951
C	-3.735963	-0.731645	0.016896
C	1.214889	-1.427882	-2.876435
F	4.897735	1.24108	0.011923
F	4.897707	-1.241082	0.012245

1,4-C ₆₀ F ₂			
C	3.496659	1.424042	-0.018654
C	3.494994	0.692367	1.248846
C	3.49499	-0.692405	1.24883
C	3.49665	-1.424032	-0.0187
C	3.500195	-0.731817	-1.218586
C	3.500214	0.731875	-1.218566
C	2.650952	2.607513	0.140836
C	2.124091	2.606174	1.507765
C	2.649269	1.424031	2.193854
C	1.853298	0.732417	3.090509
C	2.649303	-1.424102	2.193848
C	2.650939	-2.607495	0.14075
C	1.855973	-3.036406	-0.908076
C	1.858624	-2.305034	-2.176225
C	2.658804	-1.184251	-2.327632
C	2.138565	0.000051	-3.012775
C	2.658812	1.184325	-2.327587
C	1.858632	2.305093	-2.17615
C	1.855986	3.036435	-0.907982

C	0.828571	3.028396	1.751234
C	-0.017324	3.472042	0.642012
C	0.484895	3.481921	-0.649923
C	-0.357338	3.024802	-1.746803
C	0.490983	2.301842	-2.69685
C	-0.000702	1.183257	-3.344362
C	0.844877	0.000053	-3.509047
C	-0.000694	-1.183184	-3.344423
C	0.490984	-2.30182	-2.696961
C	2.124075	-2.606174	1.507675
C	-2.189892	-2.620056	-0.144596
C	-1.383486	-3.02326	0.889304
C	-1.378082	-2.291869	2.174391
C	-2.159705	-1.172777	2.304883
C	-3.013229	-0.686411	1.196364
C	-3.039728	-0.683297	-1.259596
C	-2.16666	-1.404179	-2.163707
C	-1.650374	-2.588001	-1.485976
C	-0.35733	-3.024774	-1.746871
C	0.484907	-3.481842	-0.650001
C	-0.01733	-3.471957	0.64193
C	-0.015533	-2.300551	2.698911
C	0.484617	-1.183567	3.353
C	-0.355371	-0.000066	3.514957
C	-1.644695	-0.000053	3.001265
C	-2.159631	1.172712	2.304915
C	-3.013233	0.686443	1.196377

C	-3.317836	1.556364	-0.005139
C	-3.039836	0.683377	-1.259627
C	-1.365073	-0.727121	-3.071431
C	-1.365079	0.727164	-3.071408
C	-2.166688	1.404215	-2.163679
C	-1.650392	2.588041	-1.485948
C	-2.189869	2.619953	-0.14454
C	-1.383431	3.023153	0.889334
C	-1.378054	2.291806	2.174396
C	-0.015538	2.300436	2.698969
C	0.484599	1.18344	3.353047
C	0.828592	-3.028447	1.751165
C	1.853315	-0.732532	3.090504
C	-3.317857	-1.556361	-0.005194
F	-4.579138	2.105352	0.019129
F	-4.579112	-2.105281	0.018969

1,2,3,4-C ₆₀ F ₄			
C	3.26527725	1.61930943	1.00997384
C	3.02729584	0.89126671	2.25822323
C	3.27084432	-1.22752680	1.01817012
C	3.03150233	-0.49316105	2.26262451
C	1.06209567	0.93186118	3.75000976
C	2.02078358	-1.22432269	3.02948062
C	2.01669165	1.62346530	3.02298606
C	1.06349845	-0.53185187	3.75324641

C	1.63745126	-2.40597915	2.25597308
C	1.63284936	2.80661127	2.25118811
C	-1.19066374	0.19923026	3.74745213
C	-0.33044134	1.38349702	3.74643044
C	0.32115154	-2.83131678	2.25195526
C	2.40640135	-2.40047027	1.00947705
C	-0.29476806	-3.25780127	0.99486718
C	-0.69057896	-2.10531486	3.02197709
C	-1.93223178	-2.10049023	2.24616311
C	-0.32887090	-0.98427342	3.75116687
C	-1.93842035	2.50177478	2.24545527
C	0.31474334	3.23410568	2.24779802
C	-1.67802103	-2.80917909	0.99131195
C	-2.74834172	-0.98355789	2.24470107
C	-3.36187836	-0.52967339	0.99465098
C	-2.36876885	0.19932064	3.01819717
C	-2.75438726	1.38335177	2.24775180
C	-0.30575199	3.68575136	1.00195418
C	2.40609998	2.80622773	1.00892728
C	-0.69402324	2.50262120	3.01601753
C	-1.69799628	3.22902430	0.99721259
C	-3.37338584	0.92736615	1.00109016
C	2.08050897	-2.11735469	-1.42883705
C	-2.23385138	-2.36190612	-0.19504178
C	1.81967177	3.23582693	-0.16933082
C	2.46575012	0.18516875	-2.17608580
C	-0.18603111	-2.78323756	-1.43373107

C	3.48905103	-0.54121485	-0.16597135
C	0.42328667	-3.22368438	-0.18820971
C	0.91304606	-2.36749518	-2.41921084
C	1.81670448	-2.80460868	-0.18089252
C	3.48663869	0.92114763	-0.16516494
C	0.42666043	3.68761841	-0.17291146
C	-0.19279787	3.21761834	-1.41403976
C	-2.28151390	2.79190754	-0.17999390
C	-1.50550609	2.77798027	-1.41889176
C	0.43400269	1.31557039	-2.85081854
C	-1.87756554	1.59381628	-2.18725475
C	0.80559128	2.46676378	-2.16107916
C	-0.93991143	0.88771133	-2.89270703
C	-2.91088947	0.87120631	-1.42307612
C	2.05113347	2.48985195	-1.40826863
C	0.52489132	-1.08710502	-3.30068959
C	1.29544856	0.16271376	-2.88694907
C	-2.92051720	-0.49539268	-1.44169873
C	-3.14173773	1.60931878	-0.18301854
C	-3.11608727	-1.20477515	-0.19357658
C	-2.11748027	-1.38460940	-2.42700376
C	-1.47622205	-2.36479735	-1.43704335
C	-1.04765088	-0.57708337	-3.30472708
C	2.87470947	-1.00521106	-1.40819621
C	2.85594196	1.36345052	-1.40767863
F	-2.95830455	-2.03034635	-3.31496490
F	-1.47056562	-0.68916589	-4.61811295

F	1.21895041	-3.38513939	-3.30422475
F	0.80763244	-1.42805605	-4.61225364

'O'-C ₆₀ F ₄			
C	3.16329775	1.69697068	0.80197523
C	2.91938354	0.96308412	2.03645793
C	3.17266038	-1.16040421	0.79701945
C	2.90961558	-0.42481552	2.01799954
C	0.96714571	1.00713783	3.53927056
C	1.90633292	-1.15382076	2.78446837
C	1.91894093	1.69872825	2.81213862
C	0.96503427	-0.45697899	3.52950077
C	1.54300052	-2.34454787	2.04201557
C	1.53708286	2.88556818	2.04491427
C	-1.28473031	0.27511567	3.54568361
C	-0.42498413	1.45989711	3.54385223
C	0.23802486	-2.75292361	2.03809760
C	2.54871701	-2.57116086	0.89071274
C	-0.39160545	-3.20057260	0.78022400
C	-0.77375879	-2.02609197	2.80187279
C	-2.01853585	-2.02389297	2.03552648
C	-0.42039197	-0.90700045	3.53976675
C	-2.03295684	2.57690908	2.04324728
C	0.21875192	3.31181842	2.04351672
C	-1.77080532	-2.74292044	0.78634678
C	-2.83900838	-0.91100702	2.04181035

C	-3.45806869	-0.45580031	0.79419279
C	-2.46209001	0.27351154	2.81609225
C	-2.84757700	1.45684399	2.04611293
C	-0.40245668	3.76165918	0.79761164
C	2.30834804	2.88590820	0.80071874
C	-0.78902438	2.57955110	2.81341699
C	-1.79374698	3.30427483	0.79480226
C	-3.46520021	1.00063892	0.79915740
C	1.94431568	-2.03032316	-1.62761804
C	-2.35823981	-2.30935801	-0.39538114
C	1.71930528	3.31178578	-0.37832283
C	2.36310583	0.26085117	-2.37179141
C	-0.30436547	-2.73450381	-1.60312426
C	3.38190615	-0.46852405	-0.36369795
C	0.32234458	-3.20887821	-0.38850168
C	0.70584510	-2.00046560	-2.37488207
C	1.85464699	-3.06382063	-0.48638448
C	3.38086826	0.99273245	-0.37209199
C	0.32740429	3.76384111	-0.37944317
C	-0.29354631	3.30521785	-1.62385646
C	-2.37657318	2.86812192	-0.38293421
C	-1.60758161	2.86385373	-1.62618094
C	0.32653282	1.44482789	-3.10434097
C	-1.98595571	1.68481940	-2.40139795
C	0.70557851	2.56957771	-2.38666266
C	-1.05477748	1.00463051	-3.13629959
C	-3.00208531	0.94648197	-1.62511621

C	1.95432968	2.57191566	-1.62010308
C	0.33709764	-0.91011857	-3.12188678
C	1.17859820	0.26057072	-3.09738212
C	-3.01651471	-0.42080182	-1.63761225
C	-3.23258110	1.68310052	-0.38474731
C	-3.22333217	-1.13456622	-0.39238856
C	-2.22208074	-1.31097441	-2.62137550
C	-1.61476473	-2.32837692	-1.63074356
C	-1.11199276	-0.50436505	-3.46943753
C	2.74653547	-0.92034694	-1.61718574
C	2.75905062	1.44758509	-1.61435341
F	-3.05449971	-1.92512319	-3.53693642
F	-1.39580544	-0.71988833	-4.80411043
F	3.49251078	-3.52462279	1.21924991
F	2.46148147	-4.25714541	-0.82705558

$^{\prime}O^{\prime}$ -C ₆₀ F ₆			
C	2.99816009	1.55639370	0.89393423
C	2.75033097	0.83227251	2.12952615
C	3.00100500	-1.28510928	0.90758169
C	2.74505115	-0.55705523	2.12559679
C	0.80844994	0.87952460	3.64630651
C	1.74641516	-1.28546540	2.90052806
C	1.75527577	1.56707270	2.90936470
C	0.80585274	-0.58553251	3.64255486
C	1.38232720	-2.47642040	2.15862897

C	1.37390284	2.74955059	2.13939664
C	-1.44346779	0.14825997	3.65953590
C	-0.58406480	1.33257173	3.65647322
C	0.07685644	-2.88351560	2.15467565
C	2.38648455	-2.69898380	1.00358650
C	-0.55318229	-3.33164654	0.89697467
C	-0.93403695	-2.15435862	2.91736021
C	-2.17859349	-2.15148232	2.15080268
C	-0.57958531	-1.03437661	3.65403766
C	-2.19507998	2.45054028	2.15943819
C	0.05626231	3.18121107	2.15280373
C	-1.93184974	-2.87153299	0.90226214
C	-2.99879796	-1.03814913	2.15687877
C	-3.61839280	-0.58331611	0.90962386
C	-2.62197101	0.14644328	2.93095725
C	-3.00935168	1.32953290	2.16192305
C	-0.55967645	3.62229305	0.90897841
C	2.13758323	2.75598058	0.89360044
C	-0.95026029	2.45319080	2.92858844
C	-1.95454265	3.17421822	0.90928258
C	-3.62742696	0.87302046	0.91511405
C	1.77560303	-2.14946675	-1.50415708
C	-2.51869270	-2.43753729	-0.27991297
C	1.56819425	3.18905186	-0.27183729
C	2.21304303	0.13956624	-2.26239679
C	-0.46580353	-2.86667587	-1.48676666
C	3.20135000	-0.57779781	-0.25061662

C	0.16059079	-3.34160475	-0.27163150
C	0.54659552	-2.12618584	-2.25011154
C	1.69348558	-3.18987927	-0.36982765
C	3.23097705	0.86903734	-0.26734063
C	0.18026590	3.60734936	-0.26466230
C	-0.43732425	3.14807845	-1.50403503
C	-2.53655805	2.73784720	-0.26678117
C	-1.76058147	2.72468151	-1.50609316
C	0.17458929	1.32722132	-2.97545070
C	-2.14285955	1.55544297	-2.28017102
C	0.55564892	2.44563513	-2.27845928
C	-1.20104318	0.87886458	-3.00848671
C	-3.16435053	0.81863900	-1.50994347
C	1.95919692	2.70242444	-1.68686215
C	0.18433984	-1.02612952	-2.99141130
C	1.03183571	0.13514963	-2.96639326
C	-3.17578463	-0.54873743	-1.52198484
C	-3.39595224	1.55548867	-0.26951432
C	-3.38307586	-1.26228377	-0.27730407
C	-2.37683588	-1.43585926	-2.50518670
C	-1.77469778	-2.45697692	-1.51491617
C	-1.26132379	-0.62604132	-3.34621490
C	2.56716659	-1.02507433	-1.49710616
C	2.90110906	1.39081630	-1.68203209
F	-3.20466832	-2.04622044	-3.42702508
F	-1.53959370	-0.83958574	-4.68234128
F	3.33615446	-3.64691122	1.33099635

F	2.30376688	-4.37894854	-0.71902247
F	2.63874239	3.67766795	-2.39024531
F	4.04374144	1.72054747	-2.38483452

'O'-C ₆₀ F ₈			
C	3.14058833	1.36773771	0.88245957
C	2.89371506	0.64360276	2.11856295
C	3.14174140	-1.47339170	0.89605365
C	2.88732227	-0.74623307	2.11464649
C	0.94987786	0.69055460	3.63209659
C	1.88816614	-1.47438567	2.88964862
C	1.89558854	1.37681069	2.89549278
C	0.94758311	-0.77427881	3.63267846
C	1.52257152	-2.66409636	2.14716977
C	1.50794795	2.55270795	2.11800826
C	-1.29888663	-0.03666947	3.64314054
C	-0.44357828	1.14224470	3.63212010
C	0.21632391	-3.07008192	2.14238887
C	2.52676620	-2.88731649	0.99208294
C	-0.41316720	-3.51875837	0.88468863
C	-0.79400159	-2.34004549	2.90434387
C	-2.03724767	-2.33248902	2.13491027
C	-0.43832746	-1.22221265	3.64348521
C	-2.06182678	2.27392523	2.14572605
C	0.18452825	2.97726153	2.11356205
C	-1.79165169	-3.05806073	0.88848613

C	-2.84952666	-1.21346152	2.13458501
C	-3.46295010	-0.75560975	0.88781459
C	-2.47170926	-0.02876239	2.90367050
C	-2.85256349	1.15775053	2.14115626
C	-0.42767959	3.44399715	0.89461715
C	2.27327952	2.56258256	0.88211022
C	-0.81758995	2.25317998	2.88856003
C	-1.96259060	3.29742013	0.99027738
C	-3.47385361	0.69777730	0.88345573
C	1.91694694	-2.33888885	-1.51647845
C	-2.37799833	-2.62835134	-0.29470754
C	1.69146860	2.99347253	-0.28013540
C	2.35299110	-0.04940550	-2.27479665
C	-0.32432538	-3.05761839	-1.50020781
C	3.34130431	-0.76595804	-0.26264897
C	0.30114570	-3.53045332	-0.28383689
C	0.68845555	-2.31758344	-2.26387332
C	1.83417882	-3.37866190	-0.38135220
C	3.37032258	0.68060866	-0.27946100
C	0.30709700	3.41409716	-0.26386852
C	-0.31480741	2.95003768	-1.51025288
C	-2.64396745	2.79062954	-0.38315512
C	-1.62940570	2.54672248	-1.51790054
C	0.31087875	1.13246791	-2.98144259
C	-1.98958177	1.37180012	-2.26494972
C	0.68272091	2.25163348	-2.27547067
C	-1.05639341	0.68687275	-3.00688068

C	-3.00722077	0.63845139	-1.50129141
C	2.08590301	2.51235968	-1.69289711
C	0.32658692	-1.21838379	-3.00632390
C	1.17389082	-0.05645290	-2.98109540
C	-3.02378556	-0.73307958	-1.53000291
C	-3.26331484	1.38011426	-0.28527038
C	-3.23573210	-1.44669624	-0.29505233
C	-2.23387085	-1.62225362	-2.51738171
C	-1.63348144	-2.64841105	-1.52943845
C	-1.12064042	-0.81443060	-3.35565790
C	2.70773341	-1.21394705	-1.50903315
C	3.03549276	1.20415837	-1.69251428
F	-3.06783084	-2.22788902	-3.43674517
F	-1.40068160	-1.01809821	-4.69293922
F	3.47622914	-3.83518775	1.31996159
F	2.44456916	-4.56785325	-0.72971816
F	2.76030913	3.49076597	-2.39679376
F	4.17490730	1.54194499	-2.39622187
F	-2.56971704	4.49397514	1.31753095
F	-3.58541275	3.73930890	-0.73215489

$'O'-C_{60}F_{10}$			
C	3.02557433	1.28860065	0.69948190
C	2.80780560	0.58387278	1.93448238
C	3.03732689	-1.52411207	0.70599638
C	2.78954359	-0.79087218	1.91845080
C	0.92680812	0.67385510	3.78194142

C	1.78552946	-1.52458837	2.69933650
C	2.03098127	1.47509843	2.92564691
C	0.86432226	-0.83393326	3.44607356
C	1.42788943	-2.71074324	1.95192550
C	1.42459140	2.48945637	1.93391844
C	-1.36724262	-0.08916970	3.42506814
C	-0.52604172	1.08150115	3.44551315
C	0.12386080	-3.12923738	1.94409102
C	2.43205942	-2.93880700	0.80176517
C	-0.50462876	-3.58581301	0.68866250
C	-0.87901622	-2.39615772	2.69915443
C	-2.12712438	-2.39669149	1.93651026
C	-0.50937432	-1.27101287	3.42541382
C	-2.13545510	2.19828553	1.95049079
C	0.11184968	2.89804249	1.91736897
C	-1.88371349	-3.12602626	0.69223403
C	-2.93836835	-1.27908385	1.93618497
C	-3.55604438	-0.82214709	0.69156113
C	-2.55134729	-0.09227390	2.69848217
C	-2.93740408	1.08810064	1.94285989
C	-0.50819378	3.36035537	0.70456289
C	2.16245928	2.47767400	0.69912908
C	-0.89706734	2.17108053	2.69825100
C	-2.04083345	3.22325766	0.79995991
C	-3.56589447	0.63152845	0.68742967
C	1.82657724	-2.40367329	-1.71250209
C	-2.47014585	-2.69543605	-0.49128548

C	1.59451872	2.91434231	-0.47374350
C	2.26278002	-0.11529718	-2.47525194
C	-0.41459275	-3.12289360	-1.69545775
C	3.24322299	-0.82546668	-0.45969370
C	0.21087070	-3.59486285	-0.47909767
C	0.59769064	-2.38317008	-2.45982935
C	1.74386728	-3.43875373	-0.57291966
C	3.26511519	0.61286525	-0.47306828
C	0.22018660	3.33919623	-0.46091387
C	-0.40516450	2.88490486	-1.71006947
C	-2.72902877	2.72331348	-0.57472481
C	-1.71894190	2.48079489	-1.71393231
C	0.22006012	1.06659974	-3.18084625
C	-2.08000727	1.30574972	-2.46091152
C	0.59218425	2.18618723	-2.47592366
C	-1.14747811	0.62094498	-3.20383925
C	-3.09719528	0.57278148	-1.69654205
C	1.99477530	2.44358338	-1.88730595
C	0.23573723	-1.28463624	-3.20328082
C	1.08318323	-0.12247747	-3.18049813
C	-3.11478156	-0.79911011	-1.72555493
C	-3.35247526	1.31416821	-0.48053551
C	-3.32801804	-1.51359001	-0.49163073
C	-2.32478120	-1.68829558	-2.71316417
C	-1.72440990	-2.71454575	-1.72499230
C	-1.21181039	-0.88066518	-3.55192981
C	2.61787211	-1.27976404	-1.70884912

C	2.94193186	1.13874164	-1.88692340
F	-3.15890285	-2.29403744	-3.63220620
F	-1.49240332	-1.08473091	-4.88898066
F	3.38402345	-3.88277064	1.13358729
F	2.35910108	-4.62734003	-0.91374509
F	2.66990652	3.42729298	-2.58304451
F	4.08660988	1.47558653	-2.58247242
F	-2.64346541	4.42098774	1.13115386
F	-3.66840025	3.67641569	-0.91618178
F	1.21991338	0.88700245	5.11460589
F	2.87388788	2.08721011	3.83279744

'O'-C ₆₀ F ₁₂			
C	3.17454446	1.39679873	0.58513915
C	2.95617222	0.69140036	1.81993697
C	3.18985716	-1.41603321	0.59062155
C	2.94155022	-0.68285911	1.80338681
C	1.06446080	0.77373498	3.65888147
C	1.93040005	-1.41660211	2.57642982
C	2.17421479	1.57902716	2.81044924
C	0.99839205	-0.72926371	3.31670732
C	1.56909871	-2.59214929	1.82973540
C	1.57283762	2.59715608	1.81937988
C	-1.23244318	0.01405183	3.29423487
C	-0.38494534	1.17649106	3.31615297
C	0.25521215	-2.99560390	1.82550251

C	2.57771255	-2.82902267	0.68648190
C	-0.37021725	-3.44995067	0.57618806
C	-0.74172325	-2.29512392	2.59063959
C	-2.14442217	-2.55218666	2.00171809
C	-0.36942379	-1.17488599	3.29458899
C	-1.97890199	2.29574963	1.82830578
C	0.26168309	3.00905746	1.80230819
C	-1.74422687	-3.02339992	0.58811386
C	-3.09158830	-1.24732584	2.00133746
C	-3.41522090	-0.72136217	0.58744245
C	-2.41270935	0.00691027	2.58996443
C	-2.76960331	1.17153446	1.82428520
C	-0.35813335	3.47185742	0.58919394
C	2.31152568	2.58574295	0.58479220
C	-0.74946430	2.27531849	2.57535552
C	-1.89128278	3.32768418	0.68468267
C	-3.39503423	0.71718501	0.57497133
C	1.97889429	-2.29574947	-1.82830352
C	-2.31152146	-2.58573571	-0.58479231
C	1.74423196	3.02340109	-0.58811562
C	2.41271249	-0.00691127	-2.58997072
C	-0.26168263	-3.00905996	-1.80230554
C	3.39503039	-0.71718450	-0.57496514
C	0.35813471	-3.47186045	-0.58919047
C	0.74946458	-2.27532095	-2.57535667
C	1.89128037	-3.32768762	-0.68468138
C	3.41521645	0.72136781	-0.58744260

C	0.37021855	3.44994931	-0.57618326
C	-0.25521569	2.99559798	-1.82550121
C	-2.57771405	2.82902165	-0.68647911
C	-1.56909754	2.59214319	-1.82973500
C	0.36942705	1.17488701	-3.29459288
C	-1.93040297	1.41659794	-2.57643360
C	0.74172668	2.29512192	-2.59064251
C	-0.99839272	0.72926393	-3.31670977
C	-2.94155178	0.68286093	-1.80338389
C	2.14441447	2.55220550	-2.00172198
C	0.38494356	-1.17649003	-3.31614860
C	1.23244904	-0.01405466	-3.29424594
C	-2.95617288	-0.69139960	-1.81993782
C	-3.18986149	1.41603671	-0.59061817
C	-3.17454093	-1.39679675	-0.58514004
C	-2.17421430	-1.57902609	-2.81044797
C	-1.57283690	-2.59715535	-1.81938348
C	-1.06446176	-0.77373619	-3.65888128
C	2.76959715	-1.17153723	-1.82428265
C	3.09160095	1.24731364	-2.00134054
F	-3.01190471	-2.18734564	-3.72455902
F	-1.35241649	-0.98314998	-4.99327536
F	3.52435527	-3.77543557	1.02639839
F	2.49789474	-4.52111576	-1.02397310
F	2.81974034	3.53568836	-2.69747804
F	4.23612683	1.58440602	-2.69690509
F	-2.49789984	4.52111159	1.02397434

F	-3.52435720	3.77543490	-1.02639369
F	1.35241702	0.98315088	4.99327521
F	3.01190605	2.18734778	3.72456061
F	-2.81973300	-3.53569257	2.69747470
F	-4.23612685	-1.58439580	2.69690506

'S'-C ₆₀ F ₆			
C	3.46062144	1.24222454	1.11561460
C	3.22814824	0.50771471	2.35976459
C	3.46575902	-1.61030507	1.11071993
C	3.22800092	-0.87850851	2.35577676
C	1.26700361	0.54406122	3.85374230
C	2.22096034	-1.61196448	3.12388225
C	2.22170218	1.23916533	3.13135553
C	1.26726392	-0.91960909	3.85202485
C	1.83791811	-2.79745352	2.35561916
C	1.83767462	2.42560552	2.36240756
C	-0.98454584	-0.19043130	3.85131985
C	-0.12581260	0.99675785	3.84823791
C	0.52331472	-3.23135690	2.35825185
C	2.60375653	-2.79512172	1.10726516
C	-0.09982956	-3.68684341	1.11301248
C	-0.48521842	-2.49839157	3.12566873
C	-1.72697768	-2.50041363	2.35140345
C	-0.12390191	-1.37428638	3.85193874
C	-1.71912650	2.10990364	2.33161446

C	0.51956987	2.85387922	2.35051315
C	-1.48323868	-3.22938478	1.10389891
C	-2.53785286	-1.37960230	2.34907109
C	-3.12148993	-0.92145618	1.08745566
C	-2.16151486	-0.19389557	3.12194235
C	-2.53054357	0.98801990	2.33918118
C	-0.09231946	3.31951775	1.10707629
C	2.59364707	2.42350754	1.11674529
C	-0.48531671	2.11565613	3.11514826
C	-1.48561115	2.83707198	1.08706514
C	-3.10140722	0.53116164	1.08153927
C	2.23033162	-2.48090976	-1.30928444
C	-2.04869964	-2.79515522	-0.08805502
C	1.97768465	2.84669390	-0.05396366
C	2.62223062	-0.18339986	-2.03981777
C	-0.01172283	-3.24401029	-1.31514516
C	3.68975867	-0.91522480	-0.06569309
C	0.62012687	-3.68101219	-0.07129699
C	0.98954603	-2.47705324	-2.07911769
C	2.00865893	-3.22121925	-0.06870116
C	3.68194151	0.54928165	-0.06107104
C	0.61634036	3.34368887	-0.06153442
C	0.01049326	3.18077019	-1.48283861
C	-2.03150490	2.40807650	-0.09491256
C	-1.52363059	2.73125900	-1.49428201
C	0.56045127	0.99026970	-2.72818349
C	-1.95626377	1.38559770	-2.37313880

C	0.93854441	2.09792887	-2.03937164
C	-0.83332809	0.63894770	-3.20561272
C	-2.59232960	0.48436439	-1.33526294
C	2.17925563	2.09150719	-1.28111730
C	0.59505573	-1.36557635	-2.77776348
C	1.40494161	-0.18112332	-2.70889856
C	-2.62597670	-0.87327756	-1.33523119
C	-2.80954556	1.20051239	-0.10009210
C	-2.86715077	-1.59226721	-0.09456816
C	-1.91541788	-1.79827521	-2.32671515
C	-1.31607437	-2.83585946	-1.33782407
C	-0.82673714	-1.02548489	-3.20608711
C	3.04823415	-1.36373303	-1.30388035
C	3.02087604	0.99447717	-1.28866957
F	-2.79816294	-2.39797802	-3.20499632
F	-1.05430090	-1.39310200	-4.51948396
F	0.09558934	4.35936498	-2.19973044
F	-2.23248112	3.77847999	-2.05356594
F	-2.89453103	1.83513585	-3.28668764
F	-1.01392880	1.00142178	-4.52962003

'S'-C ₆₀ F ₈			
C	3.50594612	1.43886747	1.20768894
C	3.27691047	0.70613062	2.45394051
C	3.51415585	-1.41539731	1.21154768
C	3.28089907	-0.68062442	2.45581662
C	1.31546044	0.74083345	3.94684329

C	2.27721452	-1.41539808	3.22735892
C	2.26900994	1.43719931	3.22350364
C	1.31967044	-0.72258047	3.94882228
C	1.89786219	-2.60439968	2.46003461
C	1.88282954	2.62192459	2.45297453
C	-0.93392045	0.00264129	3.94300492
C	-0.07787328	1.19133269	3.93946870
C	0.58208782	-3.03956651	2.44923613
C	2.65290139	-2.60085396	1.21363942
C	-0.02776315	-3.51344240	1.20734124
C	-0.42576549	-2.30393958	3.21195450
C	-1.65966032	-2.30699337	2.42845747
C	-0.07104861	-1.18110696	3.94267307
C	-1.67292570	2.30396367	2.42223298
C	0.56456986	3.04947764	2.44101010
C	-1.42351271	-3.03790727	1.18580682
C	-2.47409610	-1.18715181	2.43332514
C	-3.03413108	-0.73271027	1.16962571
C	-2.11029034	-0.00172902	3.21408281
C	-2.48090897	1.17946964	2.43013231
C	-0.04799320	3.51647954	1.19784334
C	2.63788575	2.61935117	1.20658489
C	-0.43903845	2.31012541	3.20572108
C	-1.44097902	3.03286410	1.17760746
C	-3.03830751	0.71839397	1.16766685
C	2.23100595	-2.27536951	-1.18371021
C	-1.96902462	-2.61573290	0.00059444

C	2.02056246	3.04248291	0.03609328
C	2.64113225	0.00499419	-1.92864157
C	0.07292390	-3.38354055	-1.38492902
C	3.72847929	-0.72155165	0.03383093
C	0.67991419	-3.53759109	0.03812760
C	0.98965692	-2.29175885	-1.94187222
C	2.03803829	-3.03069264	0.04429919
C	3.72426721	0.74308828	0.03185072
C	0.65954125	3.54154253	0.02856711
C	0.05345479	3.38013677	-1.39406603
C	-1.98404871	2.60435146	-0.00645163
C	-1.48031987	2.93043275	-1.40688370
C	0.58894572	1.17977631	-2.62598944
C	-1.91342248	1.58149343	-2.28727934
C	0.97646824	2.29215138	-1.94806697
C	-0.79779786	0.83166665	-3.12068378
C	-2.51970158	0.67092199	-1.24352705
C	2.21788137	2.28496125	-1.18987487
C	0.59575040	-1.18346501	-2.62279011
C	1.41574400	0.00059338	-2.57528592
C	-2.51579802	-0.68876516	-1.24168904
C	-2.74795629	1.38833077	-0.01214633
C	-2.73992504	-1.40414924	-0.00837520
C	-1.90427371	-1.59863518	-2.28298590
C	-1.46341916	-2.94270638	-1.39894565
C	-0.79297310	-0.84468310	-3.11841407
C	3.06414963	-1.17171681	-1.19052142

C	3.05736780	1.18610859	-1.19370744
F	-2.85166382	-2.05156871	-3.18369854
F	-0.96219606	-1.20679041	-4.44196425
F	0.14117528	4.55821584	-2.11062186
F	-2.19119369	3.97595008	-1.96503268
F	-2.86339856	2.02651053	-3.18922012
F	-0.96910044	1.18920665	-4.44520933
F	0.16742876	-4.56302257	-2.09829736
F	-2.16825966	-3.99378674	-1.95427072

'S'-C ₆₀ F ₁₀			
C	1.582788	-3.299975	-1.819482
C	2.353585	-3.305145	-0.576918
C	1.7545	-3.741025	0.594803
C	0.361016	-4.192263	0.589707
C	-0.363708	-4.192059	-0.589518
C	0.2656	-3.732171	-1.829468
C	1.96978	-2.10679	-2.570561
C	2.974717	-1.374281	-1.804054
C	3.229736	-2.134276	-0.566329
C	3.477823	-1.448084	0.589762
C	1.98915	-2.99958	1.827055
C	-0.268013	-3.731932	1.829627
C	-1.584935	-3.298936	1.819631
C	-2.355727	-3.303745	0.577079
C	-1.756919	-3.740001	-0.594631

C	-1.991121	-2.998484	-1.82694
C	-0.744681	-2.999233	-2.596424
C	-0.379651	-1.875181	-3.314556
C	1.012608	-1.418606	-3.297483
C	2.975762	-0.00301	-1.760067
C	1.930021	0.706938	-2.440767
C	1.005026	0.034936	-3.22692
C	-0.375389	0.479543	-3.206176
C	-1.236318	-0.688397	-3.268499
C	-2.400789	-0.677778	-2.522626
C	-2.807243	-1.873541	-1.800824
C	-3.478864	-1.446119	-0.589738
C	-3.231133	-2.132328	0.566428
C	0.742712	-2.999565	2.596566
C	-1.929678	0.708316	2.440598
C	-1.005107	0.035756	3.226876
C	0.375574	0.479498	3.206249
C	0.728593	1.548419	2.401217
C	-0.264027	2.299536	1.676967
C	-2.632961	2.231234	0.68238
C	-3.605722	0.873716	0.683373
C	-2.97586	-0.001107	1.760027
C	-2.975675	-1.372426	1.804107
C	-1.971188	-2.105473	2.570634
C	-1.013614	-1.417779	3.297506
C	1.235798	-0.689012	3.268611
C	2.400293	-0.679095	2.522753

C	2.798126	0.489868	1.752462
C	1.98722	1.579863	1.701263
C	1.995	2.701007	0.685026
C	0.398213	3.223355	0.682222
C	-0.395885	3.223607	-0.682242
C	-1.993303	2.702156	-0.684886
C	-3.80962	0.070649	-0.683934
C	-2.797767	0.491415	-1.752285
C	-1.986122	1.580888	-1.701078
C	-0.727565	1.548721	-2.401086
C	0.265641	2.299267	-1.676955
C	1.560855	1.882776	-1.688376
C	2.635082	2.228807	-0.682632
C	3.605838	0.872038	-0.683486
C	3.809474	0.068472	0.683959
C	0.378366	-1.875257	3.314666
C	2.805935	-1.87509	1.800862
C	-1.559557	1.883898	1.688347
F	-3.443361	3.258675	1.129561
F	-2.724548	3.787599	-1.128146
F	-0.442051	4.527036	-1.137404
F	0.445018	4.526824	1.137365
F	-4.855796	1.320533	1.066633
F	-5.11541	0.27237	-1.087305
F	2.727334	3.785943	1.127455
F	3.445418	3.256583	-1.129484
F	4.856791	1.316963	-1.066677

F	5.115477	0.269519	1.086786
---	----------	----------	----------

'S'-C ₆₀ F ₁₂			
C	-0.692719	-3.573126	1.864145
C	-1.431852	-3.837626	0.629652
C	-0.73274	-4.088779	-0.540166
C	0.733493	-4.088696	-0.540139
C	1.432525	-3.837474	0.629713
C	0.693304	-3.573042	1.864174
C	-1.430018	-2.548542	2.603962
C	-2.614792	-2.173738	1.836049
C	-2.625808	-2.993707	0.610625
C	-3.07715	-2.433711	-0.552414
C	-1.186426	-3.47007	-1.779089
C	1.187146	-3.469907	-1.779053
C	2.309468	-2.64891	-1.761833
C	3.077704	-2.433389	-0.55233
C	2.626365	-2.993371	0.610718
C	2.61522	-2.173399	1.836159
C	1.430457	-2.548331	2.603982
C	0.733337	-1.587318	3.315494
C	-0.733033	-1.587466	3.315541
C	-3.041518	-0.870695	1.775358
C	-2.267061	0.138851	2.440191
C	-1.176627	-0.203866	3.22695
C	-0.000025	0.643322	3.177828

C	1.176683	-0.203657	3.226804
C	2.267061	0.139229	2.43994
C	3.041734	-0.870254	1.77534
C	3.915571	-0.249508	0.692619
C	3.862076	-1.094379	-0.663123
C	0.000351	-3.094004	-2.551194
C	1.391621	1.245119	-2.410327
C	0.724974	0.324624	-3.200012
C	-0.724836	0.324508	-3.20011
C	-1.39174	1.244863	-2.410514
C	-0.680982	2.278684	-1.702102
C	1.598997	2.969088	-0.72209
C	2.955025	1.972989	-0.707831
C	2.598782	0.89438	-1.707715
C	3.031259	-0.394726	-1.741438
C	2.29302	-1.39431	-2.4987
C	1.181524	-1.053439	-3.248123
C	-1.181132	-1.053656	-3.248261
C	-2.292625	-1.39468	-2.498912
C	-3.031131	-0.395199	-1.741776
C	-2.598931	0.893977	-1.707997
C	-2.955242	1.972484	-0.708125
C	-1.599711	2.968633	-0.722176
C	-0.84271	3.235429	0.637057
C	0.841924	3.235619	0.637084
C	3.414445	1.344647	0.668929
C	2.283588	1.362412	1.671522

C	1.181855	2.161068	1.643246
C	-0.000232	1.756678	2.35855
C	-1.182422	2.160821	1.643228
C	-2.283953	1.361967	1.671577
C	-3.415113	1.343127	0.669089
C	-3.915308	-0.249323	0.692669
C	-3.861693	-1.094956	-0.663371
C	0.000273	-1.918455	-3.277689
C	-2.308834	-2.649217	-1.761907
C	0.680565	2.278852	-1.702068
F	2.050517	4.184729	-1.19636
F	1.200703	4.493749	1.078063
F	-1.201802	4.493483	1.078023
F	-2.051299	4.184259	-1.196555
F	3.988656	2.769246	-1.161819
F	4.504028	2.073695	1.108073
F	-3.989374	2.768399	-1.161336
F	-4.504429	2.073135	1.107634
F	-5.241526	-0.21025	1.078558
F	-5.166077	-1.313215	-1.062227
F	5.241542	-0.208962	1.078611
F	5.166407	-1.312565	-1.062403

'S'-C ₆₀ F ₁₄			
C	0.243737	-3.55446	1.81275
C	-0.376966	-4.023367	0.582099
C	0.377083	-4.023389	-0.58211

C	1.774828	-3.58778	-0.564616
C	2.370877	-3.175728	0.594042
C	1.565948	-3.124874	1.798884
C	-0.772172	-2.815559	2.562665
C	-2.017075	-2.816539	1.798243
C	-1.774736	-3.587844	0.564633
C	-2.370818	-3.175862	-0.594004
C	-0.243632	-3.554501	-1.812732
C	2.017171	-2.816504	-1.798239
C	2.822776	-1.705893	-1.750077
C	3.844756	-1.371349	-0.670684
C	3.529544	-2.142088	0.694752
C	2.953377	-1.205545	1.759075
C	1.939774	-1.917918	2.522288
C	0.98928	-1.239276	3.261816
C	-0.404097	-1.69249	3.281185
C	-2.822715	-1.705955	1.750089
C	-2.39758	-0.513725	2.427986
C	-1.253092	-0.512054	3.213183
C	-0.396644	0.658489	3.174169
C	0.982903	0.212131	3.195832
C	1.903959	0.872124	2.401055
C	2.943058	0.154116	1.709173
C	3.618769	1.056601	0.69961
C	3.861593	0.298762	-0.668062
C	0.772265	-2.815569	-2.562626
C	0.741725	1.729756	-2.371678

C	0.396629	0.65845	-3.174144
C	-0.982919	0.212094	-3.195862
C	-1.904004	0.872094	-2.401119
C	-1.550981	2.068049	-1.67797
C	0.401862	3.425333	-0.679031
C	2.00443	2.898169	-0.67017
C	1.992328	1.756669	-1.659814
C	2.791363	0.654227	-1.674683
C	2.397636	-0.513698	-2.427998
C	1.25313	-0.512071	-3.213163
C	-0.98926	-1.239351	-3.261831
C	-1.93975	-1.918012	-2.522285
C	-2.953283	-1.205632	-1.758998
C	-2.942962	0.154035	-1.709091
C	-3.618825	1.056536	-0.699617
C	-2.640441	2.426246	-0.695695
C	-2.004537	2.898208	0.670175
C	-0.401955	3.425357	0.679022
C	2.640332	2.426259	0.69564
C	1.550899	2.068053	1.677875
C	0.25666	2.492088	1.667227
C	-0.741804	1.729816	2.371722
C	-1.992445	1.756725	1.659894
C	-2.791439	0.654237	1.674753
C	-3.861602	0.298709	0.668057
C	-3.844701	-1.371455	0.670711
C	-3.529467	-2.142199	-0.694711

C	0.404161	-1.692532	-3.281168
C	-1.565845	-3.124906	-1.798817
C	-0.256745	2.492094	-1.667291
F	0.454324	4.725205	-1.139462
F	-0.454319	4.725216	1.139505
F	-2.737831	3.975303	1.125627
F	-3.447776	3.44625	-1.158084
F	2.737786	3.975175	-1.125659
F	3.447544	3.446347	1.157993
F	-4.848411	1.496542	-1.149617
F	-5.12328	0.649933	1.11105
F	-5.118528	-1.749042	1.049592
F	-4.701882	-2.746906	-1.104286
F	4.848336	1.496703	1.149494
F	5.123222	0.650102	-1.111113
F	5.118612	-1.748896	-1.049554
F	4.701964	-2.746799	1.1043

'S'-C ₆₀ F ₁₆			
C	0.697754	-3.337264	-1.768878
C	1.442895	-3.632537	-0.57122
C	0.730011	-3.831977	0.582244
C	-0.729969	-3.831984	0.582224
C	-1.442826	-3.63256	-0.571262
C	-0.697682	-3.337278	-1.768911
C	1.426668	-2.308548	-2.497929

C	2.609643	-1.939595	-1.735571
C	2.864499	-3.00463	-0.665497
C	3.390038	-2.359723	0.699323
C	1.19177	-3.158451	1.807616
C	-1.191799	-3.158511	1.807604
C	-2.303451	-2.354444	1.766606
C	-3.390011	-2.359829	0.699254
C	-2.864416	-3.004652	-0.665579
C	-2.609453	-1.939556	-1.73555
C	-1.426558	-2.308553	-2.497957
C	-0.73237	-1.372784	-3.239141
C	0.732504	-1.372807	-3.239169
C	3.017408	-0.641864	-1.691919
C	2.252737	0.358649	-2.391327
C	1.173964	0.010363	-3.186066
C	0.000072	0.862014	-3.169395
C	-1.173834	0.010404	-3.186041
C	-2.252621	0.358722	-2.391304
C	-3.017192	-0.641822	-1.691855
C	-3.934246	0.013693	-0.682293
C	-3.922896	-0.774034	0.689699
C	-0.000026	-2.763692	2.551846
C	-1.389982	1.564541	2.365437
C	-0.725432	0.655558	3.167499
C	0.725155	0.655584	3.167547
C	1.389681	1.564601	2.365529
C	0.681031	2.59698	1.652408

C	-1.602813	3.274089	0.665907
C	-2.962634	2.273472	0.669435
C	-2.590974	1.197141	1.662693
C	-3.008386	-0.099418	1.686169
C	-2.267111	-1.084418	2.438887
C	-1.177017	-0.722673	3.216104
C	1.176833	-0.722641	3.216154
C	2.266983	-1.084343	2.43895
C	3.008231	-0.0993	1.68625
C	2.590736	1.19723	1.662756
C	2.962475	2.273684	0.669775
C	1.602591	3.274174	0.665978
C	0.84496	3.515578	-0.697223
C	-0.844862	3.515635	-0.697258
C	-3.426684	1.62002	-0.690442
C	-2.283239	1.610083	-1.6767
C	-1.184145	2.415509	-1.674823
C	0.000094	1.995038	-2.377614
C	1.18432	2.41545	-1.674741
C	2.283367	1.609988	-1.676578
C	3.427035	1.619531	-0.690549
C	3.934242	0.013923	-0.682205
C	3.922783	-0.773839	0.689814
C	-0.000076	-1.580208	3.268158
C	2.303386	-2.354317	1.7666
C	-0.681339	2.59692	1.65233
F	-2.055226	4.49524	1.121607

F	-1.201975	4.763286	-1.165437
F	1.202217	4.763172	-1.165376
F	2.054823	4.495421	1.121574
F	-3.991754	3.071439	1.12637
F	-4.511706	2.336972	-1.153162
F	3.991628	3.071666	1.126575
F	4.511834	2.33696	-1.15316
F	5.241832	0.049837	-1.125573
F	5.227932	-0.828257	1.141739
F	-5.241649	0.050221	-1.125975
F	-5.228012	-0.828529	1.141699
F	-4.481731	-3.107964	1.094508
F	-3.797378	-3.940971	-1.065399
F	4.481805	-3.107723	1.094656
F	3.797478	-3.940985	-1.065176

'S'-C ₆₀ F ₁₈			
C	1.592418	-2.79875	-1.737751
C	2.624265	-3.138985	-0.675801
C	1.906094	-3.585042	0.680045
C	0.360229	-3.768628	0.568308
C	-0.360372	-3.768576	-0.568308
C	0.284213	-3.219186	-1.76175
C	1.948796	-1.581945	-2.412433
C	2.958537	-0.868774	-1.665461
C	3.618775	-1.789436	-0.664953

C	3.858317	-1.038345	0.705665
C	1.975685	-2.480697	1.732391
C	-0.284372	-3.219275	1.761781
C	-1.592546	-2.798804	1.737787
C	-2.624349	-3.138976	0.675782
C	-1.906184	-3.584963	-0.680042
C	-1.975693	-2.480532	-1.732329
C	-0.726055	-2.459986	-2.473747
C	-0.359985	-1.354179	-3.218165
C	1.023099	-0.903725	-3.190156
C	2.957946	0.493719	-1.648532
C	1.929987	1.211231	-2.356822
C	1.018793	0.547211	-3.156971
C	-0.360786	0.996398	-3.160722
C	-1.213162	-0.177145	-3.18378
C	-2.349881	-0.184011	-2.395859
C	-2.769264	-1.37537	-1.700226
C	-3.858284	-1.038312	-0.705637
C	-3.618827	-1.789462	0.664894
C	0.725934	-2.459992	2.473683
C	-1.930064	1.211217	2.356802
C	-1.018877	0.547169	3.156952
C	0.360696	0.996321	3.160772
C	0.71604	2.073005	2.369832
C	-0.2758	2.839282	1.659851
C	-2.653588	2.78027	0.664071
C	-3.639036	1.407925	0.656913

C	-2.957958	0.49371	1.648563
C	-2.958513	-0.868775	1.665382
C	-1.94891	-1.581965	2.412426
C	-1.023208	-0.903744	3.190144
C	1.213055	-0.177243	3.183791
C	2.34973	-0.184131	2.395782
C	2.77249	0.995363	1.683546
C	1.976834	2.102326	1.674781
C	2.001465	3.251021	0.694276
C	0.394157	3.776898	0.683711
C	-0.394206	3.776775	-0.683589
C	-2.001354	3.250775	-0.693906
C	-3.870693	0.648213	-0.70715
C	-2.772434	0.995418	-1.68359
C	-1.976719	2.102331	-1.674718
C	-0.716044	2.07305	-2.369717
C	0.275804	2.839268	-1.659694
C	1.571487	2.415799	-1.65238
C	2.654119	2.780203	-0.664359
C	3.639107	1.408206	-0.657172
C	3.870856	0.647795	0.707364
C	0.359858	-1.354228	3.218172
C	2.769234	-1.375502	1.700211
C	-1.571482	2.415738	1.652446
F	-3.4629	3.799379	1.121641
F	-2.725812	4.327006	-1.162469
F	-0.44063	5.074947	-1.147178

F	0.440345	5.075165	1.147128
F	-4.866109	1.847886	1.109264
F	-5.120449	0.996836	-1.177437
F	2.725901	4.327297	1.16281
F	3.463135	3.79961	-1.121943
F	4.866567	1.847548	-1.109237
F	5.120624	0.996663	1.177434
F	-5.107209	-1.404088	-1.167042
F	-4.846426	-2.242293	1.10832
F	-3.436578	-4.186058	1.061336
F	-2.505709	-4.756027	-1.100211
F	5.107162	-1.404699	1.166777
F	4.846446	-2.242265	-1.108124
F	3.436463	-4.186069	-1.061406
F	2.505597	-4.756139	1.100068

'S'-C ₆₀ F ₂₀			
C	0.977237	2.873748	1.65742
C	1.964926	3.46809	0.681696
C	1.235764	3.789673	-0.681794
C	-0.448865	3.960745	-0.681723
C	-1.227781	3.792244	0.681715
C	-0.379668	3.011497	1.657416
C	1.580598	1.767821	2.35644
C	2.746992	1.291659	1.657475
C	3.227287	2.339521	0.681686

C	3.628205	1.650727	-0.681748
C	1.462998	2.659533	-1.657471
C	-0.898665	2.899382	-1.657463
C	-2.077365	2.213271	-1.657465
C	-3.222331	2.346346	-0.681591
C	-2.691223	2.940428	0.681767
C	-2.43122	1.81741	1.657569
C	-1.192949	2.049466	2.356536
C	-0.620947	1.066823	3.142357
C	0.822839	0.920218	3.142301
C	3.035222	-0.041387	1.657396
C	2.169913	-0.956928	2.356494
C	1.129608	-0.498169	3.142341
C	-0.124582	-1.228155	3.142372
C	-1.206478	-0.260997	3.142415
C	-2.317886	-0.501337	2.356696
C	-2.981506	0.569482	1.657592
C	-3.98592	0.004116	0.681639
C	-3.905578	0.797134	-0.681607
C	0.239489	2.359181	-2.356423
C	-1.580745	-1.767941	-2.356664
C	-0.822861	-0.920264	-3.142391
C	0.620867	-1.066893	-3.14238
C	1.192852	-2.049571	-2.356602
C	0.379521	-3.01155	-1.657631
C	-1.964657	-3.467732	-0.681269
C	-3.227149	-2.339216	-0.681288

C	-2.746982	-1.291707	-1.65762
C	-3.035177	0.041374	-1.65747
C	-2.169894	0.9569	-2.356533
C	-1.129585	0.498093	-3.142347
C	1.206455	0.260841	-3.142298
C	2.317743	0.501127	-2.356451
C	2.981524	-0.569703	-1.657565
C	2.431111	-1.817552	-1.657581
C	2.691001	-2.940459	-0.681658
C	1.227193	-3.79213	-0.681376
C	0.448993	-3.960242	0.681259
C	-1.235675	-3.789156	0.681271
C	-3.627797	-1.651106	0.681468
C	-2.479729	-1.750648	1.657745
C	-1.462851	-2.659587	1.657643
C	-0.239411	-2.359356	2.356587
C	0.898697	-2.899362	1.657559
C	2.07743	-2.21327	1.657481
C	3.222421	-2.346323	0.681607
C	3.905613	-0.797098	0.681549
C	3.986083	-0.004302	-0.681743
C	0.124607	1.228049	-3.142251
C	2.479729	1.750469	-1.657415
C	-0.977396	-2.873769	-1.657671
F	-2.531048	-4.635339	-1.147506
F	-1.715782	-4.994775	1.147576
F	0.677003	-5.23769	1.147689

F	1.547015	-5.049792	-1.147661
F	-4.324145	-3.032458	-1.147776
F	-4.772245	-2.262901	1.147866
F	3.626068	-3.840168	-1.148306
F	4.220401	-3.175731	1.148172
F	5.191181	-0.974565	1.147888
F	5.281035	-0.088756	-1.148098
F	-5.280824	0.087957	1.148332
F	-5.191007	0.974774	-1.148167
F	-4.220311	3.17594	-1.147901
F	-3.626865	3.839693	1.148053
F	4.772469	2.262799	-1.148052
F	4.324609	3.032279	1.147898
F	2.530908	4.635879	1.148014
F	1.716366	4.995087	-1.148077
F	-0.677363	5.23817	-1.147987
F	-1.547494	5.04996	1.148046

T' -C ₆₀ F ₆			
C	3.35499548	1.52986151	1.19255750
C	3.11940925	0.80143873	2.44019114
C	3.36522633	-1.31940582	1.20038122
C	3.12448460	-0.58387079	2.44376754
C	1.15614427	0.84123635	3.93365825
C	2.11362874	-1.31521854	3.20952320
C	2.11053089	1.53390481	3.20683866

C	1.15674832	-0.62249455	3.93343348
C	1.73125288	-2.49760059	2.43576615
C	1.72666759	2.71952096	2.43934081
C	-1.09607461	0.11046151	3.92915656
C	-0.23550468	1.29491441	3.93258425
C	0.41507690	-2.92288125	2.43013650
C	2.50170803	-2.49383927	1.19023093
C	-0.19881074	-3.35165088	1.17259592
C	-0.59687193	-2.19449514	3.19841915
C	-1.83572542	-2.18685049	2.41918603
C	-0.23591888	-1.07414414	3.92967957
C	-1.84003512	2.42077798	2.43358354
C	0.41097112	3.15317776	2.44211117
C	-1.57970369	-2.89507368	1.16401506
C	-2.64871447	-1.06720064	2.41869149
C	-3.24235980	-0.60524900	1.16300214
C	-2.27281815	0.11362345	3.19739348
C	-2.65185044	1.30089631	2.42826330
C	-0.21338887	3.60906132	1.19819494
C	2.49276579	2.71732472	1.19203007
C	-0.59769201	2.41881052	3.20786880
C	-1.59743769	3.15150520	1.18772566
C	-3.24905524	0.84915651	1.17073407
C	2.17458812	-2.21300725	-1.24803904
C	-2.12270283	-2.43839442	-0.02524084
C	1.89707114	3.14292041	0.01822460
C	2.52100160	0.09816856	-1.96796467

C	-0.08466741	-2.88338621	-1.25802758
C	3.58120135	-0.63156361	0.01689894
C	0.521111769	-3.32351662	-0.00975008
C	1.00742132	-2.45913761	-2.24064964
C	1.91431334	-2.90295331	-0.00025712
C	3.57578159	0.83099882	0.01925208
C	0.50802450	3.60081504	0.01501748
C	-0.12476752	3.15013614	-1.22354928
C	-2.16777878	2.71890813	-0.00275411
C	-1.43062540	2.75209650	-1.25024573
C	0.48854357	1.23104016	-2.64848812
C	-2.02555309	1.71787573	-2.24250847
C	0.87456398	2.36564674	-1.96897765
C	-0.92171153	0.93303344	-3.10769113
C	-2.76742919	0.81131996	-1.25966620
C	2.11107527	2.38947355	-1.21808497
C	0.60319408	-1.16706898	-3.10675433
C	1.32291485	0.08193872	-2.64796627
C	-2.75116270	-0.54312673	-1.26822194
C	-2.99894447	1.52432198	-0.01189976
C	-2.97569751	-1.26363940	-0.02576009
C	-2.00368763	-1.45590488	-2.25527563
C	-1.36754965	-2.44865281	-1.26737922
C	-0.96360513	-0.70111653	-3.18365216
C	2.95729868	-1.09448588	-1.22166150
C	2.92611296	1.26700697	-1.21758571
F	-2.89362208	-2.10246053	-3.09953107

F	-1.36009777	-0.98960260	-4.48072477
F	1.31779640	-3.46210252	-3.13917534
F	0.95304689	-1.48126832	-4.41291276
F	-2.88280572	2.32295956	-3.14174325
F	-1.11164416	1.36217851	-4.41418109

T' -C ₆₀ F ₈			
C	3.40783491	1.33779128	1.29001474
C	3.17690616	0.60678889	2.53725063
C	3.41537965	-1.51387460	1.29025804
C	3.17768893	-0.77909625	2.53527222
C	1.21309664	0.64833635	4.02724662
C	2.16507554	-1.50951039	3.29904670
C	2.17154357	1.34111538	3.30696855
C	1.20947550	-0.81509303	4.02369626
C	1.78035137	-2.69023555	2.52393523
C	1.79169787	2.53014072	2.53998616
C	-1.04109176	-0.07795978	4.01789973
C	-0.17804399	1.10603058	4.01990427
C	0.46379943	-3.11414321	2.51801767
C	2.55036274	-2.68708102	1.27803859
C	-0.15063391	-3.54400550	1.26070535
C	-0.54669724	-2.38433243	3.28623396
C	-1.78549722	-2.37608868	2.50690139
C	-0.18385947	-1.26421969	4.01814086
C	-1.76751011	2.23090647	2.50629394

C	0.47483958	2.96496844	2.52881153
C	-1.53114458	-3.08597816	1.25164065
C	-2.59536858	-1.25411401	2.50700047
C	-3.17669682	-0.78829873	1.24670923
C	-2.21735733	-0.07398543	3.28664742
C	-2.58380637	1.11259099	2.50926627
C	-0.13623985	3.43802665	1.28752311
C	2.54700348	2.52621449	1.29448614
C	-0.53322141	2.22836031	3.28993478
C	-1.53204130	2.96201749	1.26469143
C	-3.15872548	0.66456097	1.25009633
C	2.22039773	-2.40667592	-1.15986534
C	-2.07271558	-2.63119786	0.06053146
C	1.93109975	2.95540906	0.12738908
C	2.54101239	-0.09133404	-1.85777869
C	-0.03731119	-3.08033892	-1.17139609
C	3.62893211	-0.82390578	0.10724479
C	0.56868497	-3.51806095	0.07796932
C	1.05116033	-2.64845936	-2.15319453
C	1.96215645	-3.09711341	0.08752394
C	3.61855700	0.63879559	0.11607186
C	0.57250682	3.46146627	0.11930700
C	-0.03598905	3.28753790	-1.30195950
C	-2.08314896	2.54173348	0.08143976
C	-1.57238976	2.86368502	-1.31751572
C	0.49044006	1.04642710	-2.49469548
C	-2.01044583	1.52303440	-2.20339400

C	0.87408838	2.17719850	-1.83142221
C	-0.88641062	0.75369488	-3.02246244
C	-2.65536655	0.63032892	-1.16956944
C	2.11276293	2.18282602	-1.09384323
C	0.63836337	-1.34745634	-3.00849451
C	1.33399757	-0.10220996	-2.51430203
C	-2.67606204	-0.72559868	-1.17928815
C	-2.86919296	1.33957997	0.07085606
C	-2.91238781	-1.44723175	0.05956689
C	-1.95497859	-1.64929537	-2.17140798
C	-1.32016250	-2.64617436	-1.18358550
C	-0.92503213	-0.89041876	-3.10203772
C	3.00018303	-1.28570027	-1.12954678
C	2.94292809	1.07442262	-1.10512032
F	-2.85655585	-2.29020632	-3.00662110
F	-1.31642202	-1.17548988	-4.39969395
F	1.36251236	-3.64125515	-3.06152721
F	1.01453960	-1.63873397	-4.31262077
F	-2.93232391	1.98112487	-3.12745473
F	-1.01526206	1.17798270	-4.33785884
F	0.07806991	4.45151893	-2.03834205
F	-2.26975626	3.91852513	-1.87564051

<i>'bis'</i> -C ₆₀ F ₈			
C	3.31837	-1.18643	-2.10285
C	3.934	-0.00013	-1.50175

C	4.26655	-0.00012	-0.15868
C	4.00364	-1.18481	0.6606
C	3.41774	-2.30318	0.09206
C	3.06639	-2.31028	-1.32869
C	2.31768	-0.73193	-3.06581
C	2.31785	0.73191	-3.06593
C	3.31859	1.18628	-2.10299
C	3.06657	2.31012	-1.32875
C	4.00369	1.18455	0.66063
C	3.5883	-0.73162	1.99035
C	2.60926	-1.42516	2.68322
C	1.98485	-2.60266	2.07505
C	2.37314	-3.0282	0.81541
C	1.36872	-3.48462	-0.13906
C	1.81314	-3.04602	-1.47977
C	0.8599	-2.61613	-2.36929
C	1.12174	-1.42796	-3.1791
C	1.12189	1.42801	-3.17902
C	-0.12724	0.68252	-3.24423
C	-0.12731	-0.68248	-3.24433
C	-1.12599	-1.42671	-2.44253
C	-0.57182	-2.59239	-1.98095
C	-1.11586	-3.38581	-0.82907
C	0.03238	-3.49351	0.18829
C	-0.37825	-2.96929	1.45941
C	0.56707	-2.58174	2.40287
C	3.58833	0.73138	1.9904

C	-0.87892	0.72548	3.03741
C	0.3075	1.41192	3.22504
C	0.56717	2.58172	2.40299
C	-0.37809	2.96936	1.45947
C	-1.63497	2.26349	1.32051
C	-2.82175	0.00003	1.75993
C	-1.8847	-1.17461	2.08915
C	-0.87889	-0.72537	3.03727
C	0.30749	-1.41189	3.22495
C	1.56949	-0.69197	3.40671
C	1.56949	0.69189	3.40673
C	1.98491	2.6024	2.07504
C	2.37327	3.02803	0.81546
C	1.369	3.48472	-0.13904
C	0.03261	3.49386	0.18835
C	-1.11572	3.38588	-0.82906
C	-2.31301	2.59596	0.0123
C	-2.97945	1.30314	-0.65763
C	-3.35728	0.00009	0.2765
C	-1.63511	-2.26353	1.32052
C	-2.31316	-2.59595	0.01224
C	-2.97945	-1.30301	-0.65761
C	-2.11626	-0.68118	-1.72709
C	-2.11639	0.68129	-1.72725
C	-1.12589	1.42672	-2.4425
C	-0.57157	2.59226	-1.9808
C	0.8601	2.61638	-2.36945

C	1.81339	3.04612	-1.47987
C	2.60925	1.42497	2.68324
C	3.41776	2.3029	0.09207
C	-1.88469	1.17464	2.08916
F	-3.92984	0.	2.5928
F	-4.73695	0.0002	0.36487
F	-4.18828	1.73703	-1.1805
F	-3.32993	3.51727	0.17905
F	-4.1882	-1.73685	-1.1808
F	-3.3301	-3.51728	0.17897
F	-1.61828	-4.60895	-1.21062
F	-1.61805	4.60903	-1.21059

$T-C_{60}F_{10}$			
C	3.37359945	1.12669637	1.26611028
C	3.15362185	0.39256207	2.51107033
C	3.40184349	-1.72804705	1.26131726
C	3.16168281	-0.99307384	2.50693062
C	1.20200366	0.42606964	4.00928806
C	2.15216288	-1.72931748	3.27098312
C	2.15251155	1.12714608	3.28343116
C	1.19894666	-1.03879561	4.00119760
C	1.76733828	-2.90694088	2.49176203
C	1.77191160	2.32576843	2.53730192
C	-1.04804345	-0.29669701	3.98886840
C	-0.18106072	0.88444912	3.99361368

C	0.45037791	-3.33077887	2.48374467
C	2.53743427	-2.90139006	1.24608976
C	-0.16334069	-3.75770630	1.22509711
C	-0.55975906	-2.60257634	3.25342504
C	-1.79738939	-2.59087811	2.47159759
C	-0.19510164	-1.48611668	3.99096852
C	-1.72890491	2.00238903	2.44703298
C	0.48106714	2.77832602	2.53727051
C	-1.54357857	-3.29867413	1.21504934
C	-2.60416066	-1.46639609	2.47122790
C	-3.18037131	-0.99863632	1.20893998
C	-2.21881592	-0.28853750	3.25086319
C	-2.56061833	0.89784830	2.46378039
C	-0.19958406	3.56711240	1.38276298
C	2.52168694	2.31734919	1.26808398
C	-0.51769853	2.01084610	3.25322354
C	-1.48012289	2.74353534	1.22074791
C	-3.13919598	0.45304785	1.20826342
C	2.20891558	-2.62011819	-1.19301729
C	-2.08426441	-2.84368141	0.02309618
C	1.90078971	2.74667444	0.12523326
C	2.51384892	-0.30201249	-1.87592173
C	-0.04909414	-3.29343920	-1.20733106
C	3.61577783	-1.03775275	0.07917430
C	0.55654225	-3.73097625	0.04277811
C	1.03937601	-2.86066083	-2.18812801
C	1.94997255	-3.31084904	0.05416203

C	3.59104871	0.42526942	0.09360779
C	0.65348832	3.61797078	0.03328759
C	-0.06237345	3.10116906	-1.38504606
C	-2.02074407	2.31749239	0.04806203
C	-1.57867319	2.66669733	-1.35660096
C	0.45992433	0.82939602	-2.50068139
C	-2.02306385	1.31715070	-2.24797766
C	0.82189050	1.95181206	-1.80827701
C	-0.90282353	0.54254374	-3.06119889
C	-2.65005363	0.42009114	-1.20924075
C	2.04572568	1.95457924	-1.06583347
C	0.62296298	-1.55807544	-3.04184737
C	1.30777936	-0.31458502	-2.53160234
C	-2.68447809	-0.93658996	-1.21911135
C	-2.82807252	1.12401997	0.03629807
C	-2.92053256	-1.65773980	0.02074187
C	-1.96885748	-1.86416530	-2.21118399
C	-1.33212246	-2.85983292	-1.22160354
C	-0.94114753	-1.10417073	-3.14253294
C	2.98722916	-1.49796450	-1.15897098
C	2.89756388	0.85846225	-1.10912722
F	-2.87135847	-2.50650277	-3.04363766
F	-1.32907460	-1.38898941	-4.44042524
F	1.35221179	-3.85099490	-3.09812700
F	1.00910579	-1.84100012	-4.34435255
F	-2.94957033	1.77617473	-3.16384901
F	-1.01011847	0.96852966	-4.37679412

F	0.04139312	4.17297395	-2.25339498
F	-2.31966210	3.70821288	-1.88152272
F	-0.45839163	4.87220656	1.75492692
F	0.97881340	4.94319052	-0.18032395

'bis'-C ₆₀ F ₁₀			
C	3.24933834	1.45316303	1.38687337
C	3.02298103	0.73114937	2.63194289
C	3.28244254	-1.38303136	1.37243450
C	3.02442895	-0.65626373	2.61538313
C	1.05269384	0.76511655	4.11414379
C	2.00953104	-1.38580798	3.37365020
C	2.01264672	1.46222945	3.40104142
C	1.05311657	-0.69904794	4.10386755
C	1.62755360	-2.55851616	2.58853194
C	1.63003733	2.64901559	2.63168376
C	-1.20037194	0.03301135	4.09952881
C	-0.33952996	1.21841946	4.10360680
C	0.31135033	-2.98769903	2.59094415
C	2.39515850	-2.56129384	1.34658319
C	-0.29289399	-3.39734037	1.33212316
C	-0.70246026	-2.27057466	3.36804115
C	-1.94142587	-2.26482202	2.58802299
C	-0.34043304	-1.15099496	4.09968679
C	-1.92991889	2.33959634	2.58787298
C	0.31112166	3.07954818	2.61487823

C	-1.67986351	-2.96400072	1.32794451
C	-2.75460448	-1.14519741	2.58787318
C	-3.33842568	-0.68041039	1.32763920
C	-2.37693337	0.03492333	3.36773264
C	-2.74518921	1.22070208	2.59037943
C	-0.30003507	3.54950219	1.37177403
C	2.38681793	2.64071826	1.38671352
C	-0.69667203	2.34023083	3.37314660
C	-1.69496455	3.07019832	1.34582812
C	-3.32149218	0.77258214	1.33156657
C	2.28647581	-2.56850873	-1.23547159
C	-2.22326439	-2.51154849	0.13859774
C	1.76760486	3.06067745	0.21918409
C	2.36262347	-0.03164191	-1.72229429
C	-0.17071830	-2.91473545	-1.08968376
C	3.52315544	-0.71469733	0.20515417
C	0.43802426	-3.33287643	0.15242548
C	0.87413762	-2.56966778	-2.12324775
C	1.82407752	-2.95542169	0.16354470
C	3.45730936	0.73421174	0.21949434
C	0.41012583	3.57148132	0.20458121
C	-0.19783067	3.38547535	-1.21690309
C	-2.24626313	2.64882574	0.16279738
C	-1.73512359	2.96861312	-1.23621598
C	0.31905539	1.11553046	-2.36202411
C	-2.17296925	1.62576821	-2.12379258
C	0.70095208	2.25624418	-1.72260643

C	-1.04353093	0.84562635	-2.93022445
C	-2.82444935	0.73906066	-1.09016861
C	1.93667178	2.26087032	-0.98431422
C	0.48171329	-1.25442807	-2.92994812
C	1.15979962	-0.04206798	-2.36185159
C	-2.84574240	-0.61667554	-1.10260682
C	-3.03394826	1.44750637	0.15178760
C	-3.07609671	-1.33732269	0.13844012
C	-2.12032388	-1.54026488	-2.09491603
C	-1.46655062	-2.51562447	-1.10235132
C	-1.08965787	-0.79183793	-3.02797341
C	3.15839939	-1.23555258	-1.21628245
C	2.74917145	1.14217456	-0.98416089
F	-3.02004539	-2.19383329	-2.92126822
F	-1.47619327	-1.07272370	-4.32626273
F	1.02862031	-3.57839131	-3.05573373
F	0.87493396	-1.48093891	-4.24172631
F	-3.08432967	2.08453643	-3.05646469
F	-1.13717274	1.28935285	-4.24209354
F	-0.07008478	4.53741582	-1.96859931
F	-2.42888849	4.02355636	-1.79733739
F	3.07514120	-3.55466842	-1.79633213
F	4.29346409	-1.47050570	-1.96778723

T' -C ₆₀ F ₁₂			
C	-3.108323	-1.777579	-1.645466

C	-2.436741	-3.040422	-1.340662
C	-2.40831	-3.516523	-0.039327
C	-3.035178	-2.733566	1.017118
C	-3.642571	-1.524247	0.701112
C	-3.718373	-1.04474	-0.663391
C	-2.289675	-1.072499	-2.648881
C	-1.142883	-1.92652	-2.964852
C	-1.23503	-3.142498	-2.170052
C	-0.072782	-3.70873	-1.667135
C	-1.184568	-4.115682	0.500391
C	-2.213767	-2.859962	2.223656
C	-2.051261	-1.772233	3.064745
C	-2.685529	-0.498925	2.718938
C	-3.436422	-0.371783	1.564917
C	-3.359239	0.824071	0.741206
C	-3.889173	0.501752	-0.659046
C	-3.058489	1.253488	-1.797019
C	-2.153665	0.286555	-2.552321
C	0.108948	-1.375273	-3.198501
C	0.259555	0.052696	-3.015377
C	-0.833017	0.836048	-2.675566
C	-0.671127	1.945944	-1.790189
C	-2.012717	2.475358	-1.3446
C	-1.957798	2.913925	0.169962
C	-2.49201	1.819591	1.068361
C	-1.648486	1.669271	2.22707
C	-1.766355	0.571239	3.064379

C	-1.068959	-3.713804	1.90473
C	1.7846	-0.284042	3.017686
C	1.636653	-1.660228	3.022052
C	2.255176	-2.424091	1.951697
C	2.958278	-1.74964	0.961366
C	3.151248	-0.318034	1.014873
C	2.175194	1.883494	1.970193
C	0.748435	1.769366	2.531221
C	0.649683	0.562095	3.33564
C	-0.569603	-0.017541	3.639431
C	-0.736883	-1.47288	3.636086
C	0.346272	-2.279322	3.332892
C	1.369317	-3.524065	1.601535
C	1.261374	-3.894814	0.271622
C	2.05871	-3.212709	-0.743169
C	2.899284	-2.181402	-0.407119
C	3.399913	-1.084041	-1.337366
C	3.60408	0.224357	-0.318749
C	2.860339	1.588584	-0.670818
C	2.238188	2.521294	0.527755
C	-0.376884	2.310511	1.999923
C	-0.450609	3.256434	0.827634
C	0.833861	3.104771	-0.095822
C	0.552754	2.165257	-1.229377
C	1.674403	1.341222	-1.555095
C	1.554395	0.327183	-2.455649
C	2.44355	-0.908332	-2.598716

C	1.336796	-1.996764	-2.737456
C	1.233359	-3.116022	-1.961752
C	0.175745	-3.431584	2.445341
C	-0.051728	-4.204656	-0.291164
C	2.584168	0.400804	2.015071
F	2.981718	2.651082	2.794088
F	3.081154	3.612806	0.625245
F	3.80441	2.387197	-1.300059
F	4.959602	0.492154	-0.334963
F	1.139953	4.378731	-0.550478
F	-0.517718	4.576985	1.223681
F	-2.683078	4.082427	0.294745
F	-2.403607	3.578656	-2.080666
F	-5.215032	0.857475	-0.813438
F	-3.979275	1.847129	-2.6373
F	4.659967	-1.370632	-1.825298
F	3.241158	-0.860785	-3.724865

<i>'bis'</i> -C ₆₀ F ₁₂			
C	3.475117	1.060191	-0.457245
C	3.007904	2.43746	-0.53195
C	2.593827	3.121678	0.598351
C	2.592911	2.426968	1.876583
C	3.000113	1.103305	1.915624
C	3.472798	0.407083	0.729774
C	3.355981	0.397902	-1.828476

C	2.325037	1.354105	-2.49446
C	2.297246	2.620672	-1.788946
C	1.185018	3.452657	-1.839694
C	1.422389	3.99782	0.55312
C	1.423507	2.872783	2.636761
C	0.731858	1.964586	3.419764
C	1.178007	0.570487	3.46768
C	2.269747	0.149157	2.729858
C	2.284625	-1.135978	2.051475
C	3.366095	-1.113486	0.960977
C	2.971328	-1.950451	-0.319528
C	2.86521	-1.133155	-1.730106
C	1.19017	0.95638	-3.142496
C	0.716026	-0.416998	-2.924598
C	1.404266	-1.261683	-2.078658
C	0.689191	-2.134893	-1.234087
C	1.580653	-2.836938	-0.252631
C	0.839278	-3.042657	1.12927
C	1.17995	-1.924928	2.084801
C	-0.000027	-1.464637	2.773284
C	-0.000026	-0.278847	3.491111
C	0.693439	3.837855	1.813013
C	-3.000117	1.10332	1.915601
C	-2.59291	2.426963	1.876565
C	-2.59381	3.121671	0.598332
C	-3.007887	2.437467	-0.531964
C	-3.47511	1.060189	-0.457282

C	-3.366137	-1.11343	0.961023
C	-2.284661	-1.135951	2.05145
C	-2.269764	0.149194	2.729826
C	-1.178047	0.570501	3.467656
C	-0.731899	1.964596	3.419768
C	-1.423535	2.872784	2.636759
C	-1.422383	3.997816	0.553108
C	-0.731848	4.15341	-0.636243
C	-1.184992	3.452657	-1.839697
C	-2.297213	2.620678	-1.78895
C	-2.325044	1.354112	-2.494486
C	-3.355999	0.397986	-1.828541
C	-2.865202	-1.13322	-1.730164
C	-2.971304	-1.950553	-0.319536
C	-1.179996	-1.924908	2.084775
C	-0.839321	-3.042629	1.129247
C	-1.580566	-2.837001	-0.252636
C	-0.689165	-2.134898	-1.234101
C	-1.404274	-1.261708	-2.078693
C	-0.716035	-0.417	-2.924612
C	-1.190162	0.956378	-3.142492
C	0.000007	1.802449	-3.21614
C	0.000013	3.035403	-2.582701
C	-0.693458	3.837848	1.813006
C	0.731873	4.153419	-0.636239
C	-3.472785	0.40708	0.729739
F	-4.565607	-1.625904	1.428278

F	-3.983013	-2.876739	-0.496954
F	-3.662308	-1.831805	-2.624197
F	-4.551343	0.392911	-2.519083
F	-1.938378	-4.099225	-0.702175
F	-1.205303	-4.279647	1.620461
F	1.20522	-4.279677	1.620451
F	1.938573	-4.099131	-0.702183
F	3.98307	-2.876636	-0.497005
F	4.565552	-1.625938	1.428291
F	3.662264	-1.831871	-2.624129
F	4.551338	0.392957	-2.519052

$T-C_{60}F_{14}$			
C	-1.191779	-3.424538	-1.403139
C	-0.000043	-3.963247	-0.749977
C	-0.000041	-4.164496	0.622256
C	-1.182147	-3.808909	1.399406
C	-2.286329	-3.272157	0.750535
C	-2.316367	-3.108538	-0.68938
C	-0.729669	-2.491535	-2.443721
C	0.729644	-2.491553	-2.443733
C	1.191692	-3.424518	-1.403107
C	2.316305	-3.108577	-0.689369
C	1.18208	-3.808941	1.399405
C	-0.731686	-3.254517	2.678569
C	-1.420637	-2.201566	3.257464

C	-2.579761	-1.638575	2.563585
C	-2.984725	-2.140207	1.340183
C	-3.435525	-1.258681	0.275565
C	-3.351613	-2.006165	-1.05876
C	-2.884494	-1.046838	-2.245433
C	-1.442373	-1.335008	-2.643986
C	1.442377	-1.335026	-2.643973
C	0.695598	-0.122067	-2.719943
C	-0.695599	-0.122044	-2.71998
C	-1.417682	0.95797	-2.12861
C	-2.87746	0.60691	-1.97915
C	-3.4318	1.164751	-0.612328
C	-3.410348	0.090195	0.452874
C	-2.920619	0.63109	1.695627
C	-2.559487	-0.197585	2.74588
C	0.731628	-3.254541	2.678583
C	0.725353	1.313721	3.260065
C	1.407904	0.147704	3.561034
C	2.559456	-0.197636	2.745908
C	2.92061	0.631032	1.695645
C	2.250956	1.88706	1.461513
C	0.000028	3.123809	1.797055
C	-1.173663	2.221584	2.216152
C	-0.725356	1.313733	3.26006
C	-1.407935	0.147731	3.561009
C	-0.692124	-1.091279	3.874948
C	0.692063	-1.091293	3.87496

C	2.579715	-1.638631	2.563627
C	2.984638	-2.140238	1.340178
C	3.435576	-1.25873	0.275572
C	3.410453	0.090153	0.452912
C	3.431866	1.164699	-0.612298
C	2.598754	2.440608	0.102916
C	1.297781	3.001372	-0.619861
C	0.000038	3.491181	0.262349
C	-2.250912	1.887087	1.4615
C	-2.598719	2.440657	0.102933
C	-1.297736	3.001409	-0.619851
C	-0.714645	1.948679	-1.511894
C	0.714637	1.948685	-1.511913
C	1.417694	0.957934	-2.128548
C	2.877477	0.606852	-1.979108
C	2.884505	-1.04688	-2.245415
C	3.35158	-2.006231	-1.058761
C	1.420585	-2.201604	3.257506
C	2.286295	-3.272244	0.750546
C	1.173696	2.221559	2.216151
F	0.00004	4.313374	2.505814
F	0.000032	4.871117	0.191968
F	1.697725	4.120754	-1.333005
F	3.509096	3.474885	0.17287
F	-1.697626	4.120806	-1.333011
F	-3.509081	3.474909	0.172899
F	-4.706572	1.64449	-0.836971

F	-3.649588	1.140347	-2.993227
F	-4.561366	-2.561759	-1.427045
F	-3.756149	-1.248751	-3.295607
F	4.70661	1.644463	-0.836974
F	3.649584	1.140301	-2.9932
F	3.756171	-1.248788	-3.295604
F	4.561316	-2.561868	-1.427062

<i>'bis'</i> -C ₆₀ F ₁₄			
C	-3.439554	-0.365455	0.429618
C	-3.208492	-1.791007	0.487887
C	-2.730759	-2.400081	1.641397
C	-2.383484	-1.572148	2.784234
C	-2.55637	-0.202857	2.68207
C	-3.125732	0.41326	1.495212
C	-3.592269	0.105342	-0.995865
C	-3.133061	-1.238877	-1.881692
C	-2.836711	-2.279568	-0.810922
C	-1.924983	-3.300591	-0.903461
C	-1.766801	-3.486081	1.550039
C	-1.181757	-2.135653	3.403271
C	-0.212834	-1.28165	3.901462
C	-0.40969	0.166891	3.802831
C	-1.5425	0.692975	3.207064
C	-1.485568	1.864273	2.348052
C	-2.751449	1.906083	1.475104

C	-2.498648	2.479324	0.027867
C	-2.81079	1.471371	-1.231739
C	-1.913364	-1.089835	-2.897418
C	-1.09011	0.156104	-2.587072
C	-1.442219	1.203803	-1.782179
C	-0.442718	2.045329	-1.238578
C	-0.993812	3.063514	-0.287861
C	0.032698	3.321135	0.891318
C	-0.282273	2.425584	2.063807
C	0.920731	1.838754	2.600338
C	0.871554	0.773907	3.486521
C	-0.793594	-3.318447	2.631954
C	3.237498	-1.341036	1.659511
C	2.62325	-2.558842	1.904179
C	2.263671	-3.400656	0.773809
C	2.557349	-2.962925	-0.505691
C	3.242298	-1.698456	-0.734395
C	3.75909	0.625247	0.312361
C	2.931679	0.991949	1.55411
C	2.844695	-0.170244	2.422011
C	1.867643	-0.279558	3.395134
C	1.202046	-1.558954	3.648745
C	1.569874	-2.674029	2.914455
C	0.97657	-4.034531	1.067756
C	0.052187	-4.199872	0.051669
C	0.366217	-3.764393	-1.309336
C	1.595452	-3.170095	-1.581205

C	1.681229	-2.039061	-2.471644
C	2.959429	-1.208948	-2.153662
C	2.73575	0.382403	-2.211948
C	3.255887	1.346818	-0.998556
C	1.998918	1.974533	1.652835
C	1.658954	3.003581	0.60241
C	2.060642	2.474431	-0.831931
C	0.887552	1.806172	-1.484406
C	1.268722	0.710187	-2.282591
C	0.294072	-0.092616	-2.830975
C	0.504581	-1.533297	-2.9642
C	-0.786948	-2.154306	-2.747569
C	-0.849838	-3.236404	-1.912728
C	0.546398	-3.581188	2.393105
C	-1.359705	-3.911454	0.296137
C	3.574254	-0.905949	0.314056
F	5.09314	0.960596	0.477077
F	4.342194	2.037399	-1.501795
F	3.412037	0.811661	-3.343212
F	3.980616	-1.508143	-3.032353
F	2.497116	3.572045	-1.556943
F	2.309218	4.202394	0.809235
F	-0.027861	4.659844	1.217271
F	-1.200938	4.28669	-0.907315
F	-3.357114	3.550401	-0.125844
F	-3.741435	2.679302	2.058143
F	-3.583018	2.213627	-2.111939

F	-4.912663	0.331018	-1.331762
F	-4.241367	-1.580454	-2.630748
F	-2.43316	-1.08565	-4.176282

T' -C ₆₀ F ₁₆			
C	-0.04878	-3.737334	-0.495495
C	1.106121	-3.674099	0.384382
C	0.930226	-3.591202	1.756905
C	-0.413229	-3.486727	2.308326
C	-1.494036	-3.479418	1.437268
C	-1.320765	-3.64916	0.009441
C	0.309601	-3.020416	-1.7207
C	1.85216	-2.777493	-1.751559
C	2.181847	-2.94891	-0.274561
C	3.007075	-2.146717	0.442027
C	1.812682	-2.734688	2.536321
C	-0.362172	-2.565181	3.446693
C	-1.407139	-1.682915	3.665666
C	-2.5389	-1.673144	2.736824
C	-2.573118	-2.526604	1.648801
C	-3.06054	-2.081525	0.353834
C	-2.542556	-3.037067	-0.728252
C	-2.146222	-2.267034	-2.064729
C	-0.628407	-2.201081	-2.240448
C	2.280353	-1.327413	-2.290295
C	1.082051	-0.422999	-2.325079

C	-0.2248	-0.835574	-2.486387
C	-1.305546	0.046797	-2.257886
C	-2.624988	-0.676098	-2.220151
C	-3.558792	-0.031404	-1.123391
C	-3.438305	-0.785657	0.181554
C	-3.339557	0.135457	1.285642
C	-2.950584	-0.293516	2.544616
C	1.0193	-2.104394	3.593227
C	-0.356676	2.243391	2.990275
C	0.559818	1.443106	3.650212
C	1.889163	1.314976	3.078654
C	2.189999	1.978218	1.899393
C	1.246952	2.878148	1.281661
C	-1.287148	3.378149	1.045168
C	-2.218461	2.264068	1.555957
C	-1.725736	1.787569	2.838067
C	-2.099916	0.559775	3.355895
C	-1.134035	-0.296272	4.048768
C	0.173047	0.13771	4.191516
C	2.338642	-0.054011	3.265179
C	3.06732	-0.645365	2.248586
C	3.443603	0.088568	1.052503
C	3.025479	1.37158	0.892929
C	2.932387	2.133741	-0.406397
C	1.6612	3.204347	-0.131579
C	0.405704	3.129693	-1.097452
C	-1.114236	3.385416	-0.521898

C	-3.012969	1.456571	0.807268
C	-3.253521	1.567232	-0.676706
C	-2.044552	2.326555	-1.372179
C	-1.035445	1.327681	-1.84821
C	0.298447	1.75447	-1.680009
C	1.344727	0.894275	-1.919186
C	2.794192	1.125411	-1.616178
C	3.379824	-0.415935	-1.49331
C	3.793594	-0.916534	-0.056753
C	1.278596	-0.792182	3.954273
C	2.799276	-2.02221	1.875978
C	-0.000607	3.003723	1.803353
F	-1.746301	4.630076	1.417544
F	-1.478699	4.643543	-0.956768
F	0.594869	4.095368	-2.073314
F	2.210262	4.463487	-0.247452
F	-2.583348	3.064557	-2.413169
F	-4.409136	2.255748	-0.978321
F	-4.849452	-0.03103	-1.610084
F	-3.295134	-0.612778	-3.427311
F	-2.73907	-2.940777	-3.113151
F	-3.470702	-4.00349	-1.06199
F	2.47421	-3.71357	-2.552595
F	2.813069	-1.535402	-3.552319
F	4.526305	-0.436987	-2.263158
F	5.153049	-1.180612	-0.088777
F	3.468877	1.684308	-2.688863

F	4.036768	2.926659	-0.635851
---	----------	----------	-----------

<i>'bis'</i> -C ₆₀ F ₁₆			
C	-3.449818	-0.886648	0.338178
C	-2.966356	-2.103271	0.950807
C	-2.576205	-2.13506	2.283853
C	-2.587129	-0.902809	3.054036
C	-2.993844	0.261695	2.426173
C	-3.462654	0.268988	1.050566
C	-3.442387	-0.998001	-1.167436
C	-2.598236	-2.423277	-1.437323
C	-2.295679	-2.909044	-0.031755
C	-1.189956	-3.62918	0.33675
C	-1.418381	-2.917659	2.687214
C	-1.423072	-0.910875	3.942613
C	-0.731552	0.268064	4.166356
C	-1.177642	1.499618	3.510536
C	-2.26964	1.497147	2.660533
C	-2.287358	2.273337	1.431851
C	-3.37287	1.704673	0.500347
C	-2.985636	1.772568	-1.025439
C	-2.872537	0.335	-1.817231
C	-1.262327	-2.359709	-2.31254
C	-0.710612	-0.946774	-2.305059
C	-1.395292	0.202793	-2.023148
C	-0.685049	1.39372	-1.764982

C	-1.575355	2.538132	-1.39208
C	-0.841563	3.44778	-0.322076
C	-1.180932	2.973477	1.069118
C	0.001093	2.917779	1.893833
C	0.000897	2.247374	3.107191
C	-0.693157	-2.158598	3.711194
C	2.994282	0.259871	2.426031
C	2.586805	-0.904413	3.05379
C	2.574949	-2.136569	2.283489
C	2.964978	-2.104995	0.950375
C	3.449225	-0.888684	0.337879
C	3.374162	1.702642	0.500131
C	2.289109	2.271973	1.431865
C	2.270931	1.495761	2.660476
C	1.178948	1.498857	3.510483
C	0.732117	0.267605	4.166327
C	1.422844	-0.91177	3.942493
C	1.416704	-2.918487	2.686998
C	0.728621	-3.631485	1.718924
C	1.187529	-3.629869	0.336619
C	2.293649	-2.910368	-0.032032
C	2.596091	-2.425306	-1.437688
C	3.441764	-0.999191	-1.167691
C	2.872701	0.333152	-1.817308
C	2.98665	1.770787	-1.02555
C	1.183123	2.972809	1.069123
C	0.844131	3.447108	-0.322238

C	1.57673	2.537197	-1.391971
C	0.685809	1.393273	-1.765082
C	1.395289	0.201926	-2.023285
C	0.709927	-0.947258	-2.305122
C	1.260526	-2.360671	-2.312728
C	-0.001183	-3.057476	-1.730309
C	-0.00128	-3.672012	-0.540213
C	0.692099	-2.159014	3.711108
C	-0.730887	-3.631059	1.719017
C	3.46288	0.266888	1.05042
F	4.57504	2.374533	0.654442
F	3.983814	2.480232	-1.662576
F	3.552711	0.515377	-3.010514
F	4.700896	-1.213002	-1.688437
F	1.870164	3.347185	-2.476941
F	1.214182	4.75517	-0.547003
F	-1.210654	4.756107	-0.546594
F	3.476735	-3.255857	-2.098004
F	-3.478641	-3.254097	-2.097896
F	-1.567562	-2.827517	-3.57386
F	1.564894	-2.828595	-3.574235
F	-1.86827	3.348235	-2.477065
F	-3.552693	0.517337	-3.010316
F	-4.702042	-1.210078	-1.687896
F	-3.982598	2.482551	-1.662081
F	-4.573289	2.377443	0.654701

$T-C_{60}F_{18}$			
C	3.20554226	1.27420242	1.41097178
C	2.55200311	0.38319280	2.43739140
C	3.13025824	-1.90874183	1.35469214
C	2.56165031	-0.97611361	2.44144289
C	0.58591971	0.42016602	3.92333122
C	1.53929064	-1.69308048	3.18458670
C	1.51565267	1.09342325	3.14633300
C	0.58869707	-1.03250595	3.94322733
C	1.15830032	-2.86350202	2.41583946
C	1.16484026	2.30087060	2.43919442
C	-1.66133940	-0.30189184	3.97225923
C	-0.79287922	0.87744148	3.94501762
C	-0.15200705	-3.30796640	2.44866880
C	1.94281194	-2.87719180	1.19278161
C	-0.76403406	-3.72692242	1.19944596
C	-1.16677984	-2.60525765	3.23748186
C	-2.40934945	-2.59979361	2.46295443
C	-0.80317466	-1.48825335	3.97114699
C	-2.35495886	1.99337361	2.42037792
C	-0.12315124	2.73546298	2.44491739
C	-2.15244514	-3.29917113	1.20173949
C	-3.22108091	-1.47762284	2.46400414
C	-3.80603030	-1.01318313	1.20387579
C	-2.83667619	-0.29672367	3.23963926
C	-3.18716967	0.88797057	2.45258844
C	-0.83191549	3.56873370	1.35981048

C	2.21470741	2.64396490	1.41224915
C	-1.12341746	1.98795891	3.18803429
C	-2.12350349	2.74425484	1.19803110
C	-3.77774191	0.43935314	1.20333875
C	1.83162532	-2.94652041	-1.36127745
C	-2.69714185	-2.84655214	0.01263569
C	1.50897491	3.03718136	0.04891221
C	1.74752710	-0.44852897	-1.51036184
C	-0.64853495	-3.26985540	-1.21977112
C	3.50829395	-1.15768139	0.02380801
C	-0.03144887	-3.65930887	0.02464363
C	0.39696188	-2.94020959	-2.25554312
C	1.35999399	-3.27869067	0.03220069
C	3.35693026	0.48250614	0.04651441
C	-0.00142137	3.69433119	0.02835750
C	-0.68914423	3.04684274	-1.32124725
C	-2.68827293	2.31780471	0.03742912
C	-2.22641295	2.66348329	-1.35603521
C	-0.24044741	0.69585103	-2.23475499
C	-2.67024621	1.30002816	-2.25157991
C	0.11961562	1.80195572	-1.50825217
C	-1.51690938	0.50393990	-2.99147301
C	-3.30963827	0.40896262	-1.21633377
C	1.31285517	1.79670575	-0.76445742
C	0.00119795	-1.59475339	-2.99343729
C	0.58365722	-0.44341453	-2.23582948
C	-3.32612820	-0.95022920	-1.22857250

C	-3.48528015	1.11541119	0.02910503
C	-3.54768972	-1.67071722	0.01373538
C	-2.60673010	-1.88352210	-2.22133206
C	-1.94460972	-2.86010090	-1.23035940
C	-1.57357644	-1.13531976	-3.14385312
C	2.67690387	-1.60651942	-1.32559918
C	2.11668493	0.68549655	-0.76551534
F	-3.50833125	-2.53493588	-3.04529405
F	-1.92961178	-1.39164581	-4.45027681
F	0.54828078	-3.92641482	-3.20410110
F	0.48681231	-1.68074701	-4.28684978
F	-3.56038133	1.75357701	-3.19879539
F	-1.44773660	0.99365517	-4.28434676
F	-0.47728013	3.97490671	-2.32620149
F	-2.92244691	3.71331292	-1.91159925
F	-1.10419810	4.85061498	1.80565805
F	0.16354239	5.03853461	-0.22681065
F	2.61036425	-3.93548566	-1.91874626
F	3.62374370	-1.69453783	-2.33152094
F	4.26290602	-2.56909263	1.79875117
F	4.83636271	-1.42141803	-0.23285085
F	3.02662348	3.68718134	1.79663135
F	2.32383019	3.96257904	-0.58020820
F	4.45078812	1.71836373	1.79479393
F	4.49032612	0.96753625	-0.58298573

'C'-C ₆₀ F ₁₆			
C	2.84287426	1.26407346	1.25612059
C	2.95013147	0.72528402	2.68068137
C	3.28378268	-1.71749756	1.28404793
C	2.99012682	-0.88006045	2.70418954
C	0.69682941	0.65066183	3.95560664
C	1.66634353	-1.46753095	3.17193688
C	1.65904279	1.35064286	3.27770757
C	0.70677200	-0.82412602	3.91064101
C	1.27288966	-2.57027849	2.33965130
C	1.25647392	2.50331138	2.49927032
C	-1.55130236	-0.09863015	3.90108940
C	-0.69084143	1.08553714	3.91792845
C	-0.02617960	-3.05718640	2.36312228
C	2.05144147	-2.58043966	1.12443900
C	-0.62849870	-3.49215541	1.11678286
C	-1.04714004	-2.38945369	3.15631384
C	-2.29109023	-2.40080081	2.38219410
C	-0.68319182	-1.27410270	3.89466736
C	-2.24680176	2.19025192	2.36135483
C	-0.03781626	2.96765663	2.47093776
C	-2.02594950	-3.09492345	1.11907343
C	-3.10478790	-1.28183001	2.38199094
C	-3.68231771	-0.81931378	1.11798934
C	-2.72246704	-0.10197460	3.16288670
C	-3.07161343	1.08148376	2.37366525
C	-0.71262949	3.74964668	1.30483696

C	1.98843780	2.44129810	1.23244810
C	-1.03932167	2.20966490	3.17637305
C	-1.99351865	2.92608836	1.13349612
C	-3.64572029	0.63255368	1.11752655
C	1.95631458	-2.71497427	-1.44841447
C	-2.57107056	-2.65047260	-0.07320036
C	1.36413310	2.87553126	0.09116002
C	1.95152713	-0.22996929	-1.82906706
C	-0.51452683	-3.04130999	-1.30601625
C	3.55049701	-0.88410842	-0.02833153
C	0.10292491	-3.40738607	-0.05527954
C	0.52782783	-2.72064651	-2.34740267
C	1.48386241	-2.99897844	-0.04138980
C	3.02688238	0.52760123	0.12757146
C	0.14806031	3.78123941	-0.03499973
C	-0.56476637	3.25596675	-1.46013754
C	-2.53116321	2.49701113	-0.04124032
C	-2.08505153	2.84187769	-1.44594126
C	-0.06492927	0.94309748	-2.51893226
C	-2.52919411	1.48707527	-2.34293762
C	0.28754594	2.06960178	-1.83835001
C	-1.40368225	0.69454220	-3.14294003
C	-3.16244589	0.59843701	-1.30283664
C	1.47717980	2.03504910	-1.05286032
C	0.12325572	-1.40632503	-3.14706731
C	0.77554524	-0.21345071	-2.51922497
C	-3.19646305	-0.75832456	-1.31647409

C	-3.33666155	1.30247038	-0.05587063
C	-3.42403563	-1.47695611	-0.07305730
C	-2.48042264	-1.68898252	-2.31147276
C	-1.81661561	-2.65747779	-1.31732154
C	-1.45325834	-0.94501646	-3.25077640
C	2.82499424	-1.40264857	-1.46171728
C	2.27936309	0.90372500	-1.03291282
F	-3.38550541	-2.34518717	-3.12838687
F	-1.83805302	-1.22342626	-4.54793261
F	0.68435417	-3.73441553	-3.26878614
F	0.53452898	-1.59884006	-4.45598345
F	-3.44197726	1.94878344	-3.26842457
F	-1.46011039	1.14898755	-4.45095181
F	-0.42224586	4.30697514	-2.34484307
F	-2.81480834	3.88494512	-1.97913961
F	-0.97161240	5.05691520	1.66670898
F	0.50260657	5.09448806	-0.26274501
F	2.71580832	-3.74247661	-1.96737139
F	3.86765704	-1.58524396	-2.34637056
F	4.41369749	-2.47238894	1.53500054
F	4.90674074	-0.91007203	-0.27909554
F	4.07756728	1.17000204	3.34087237
F	4.02496227	-1.22841196	3.54976311

'C'-C ₆₀ F ₁₈			
C	3.647569	-1.263708	-0.807736

C	3.837782	0.00012	0.071859
C	3.661888	0.000093	1.400059
C	3.129453	-1.186066	2.101163
C	2.742003	-2.284929	1.381953
C	3.148579	-2.592354	-0.046795
C	2.552803	-0.724199	-1.709749
C	2.552681	0.724358	-1.709644
C	3.647473	1.263933	-0.807774
C	3.148491	2.592544	-0.046711
C	3.129418	1.186209	2.101217
C	2.35113	-0.729596	3.245431
C	1.213661	-1.415631	3.641742
C	0.789863	-2.560589	2.850909
C	1.512333	-2.941432	1.729101
C	0.84543	-3.40788	0.5373
C	1.814762	-3.435854	-0.624785
C	1.117324	-2.891021	-1.92686
C	1.467345	-1.433282	-2.121951
C	1.467241	1.433445	-2.121959
C	0.294736	0.691369	-2.44949
C	0.294756	-0.691289	-2.449514
C	-0.892117	-1.422107	-2.164822
C	-0.573448	-2.885825	-1.990431
C	-1.383211	-3.443156	-0.76247
C	-0.516579	-3.401555	0.475441
C	-1.280064	-2.913236	1.594691
C	-0.659074	-2.552357	2.77817

C	2.351062	0.729642	3.245404
C	-2.243744	0.72524	3.013295
C	-1.151676	1.406924	3.523874
C	-0.659237	2.552266	2.778251
C	-1.280238	2.913138	1.594761
C	-2.476855	2.250647	1.137827
C	-3.756218	-0.000094	1.244227
C	-2.944088	-1.17386	1.819909
C	-2.243698	-0.725435	3.013277
C	-1.15158	-1.40707	3.523795
C	0.008657	-0.691311	4.05994
C	0.008619	0.6912	4.059964
C	0.789718	2.560562	2.850981
C	1.512153	2.941434	1.729123
C	0.845243	3.40792	0.537321
C	-0.516774	3.401574	0.475503
C	-1.383413	3.443158	-0.762403
C	-2.774741	2.603228	-0.297219
C	-3.197391	1.300045	-1.11026
C	-3.840721	-0.000063	-0.331755
C	-2.47665	-2.250721	1.137748
C	-2.774653	-2.603432	-0.297222
C	-3.197417	-1.300192	-1.110302
C	-1.992998	-0.715786	-1.780613
C	-1.99301	0.71566	-1.780573
C	-0.892188	1.422091	-2.164738
C	-0.573627	2.885828	-1.990385

C	1.117135	2.891171	-1.92679
C	1.814626	3.435945	-0.624752
C	1.213592	1.41561	3.641807
C	2.74187	2.285026	1.381991
C	-2.944181	1.173712	1.819958
F	-5.053907	-0.00018	1.726854
F	-5.183963	-0.000059	-0.652454
F	-4.164012	1.698747	-2.018193
F	-3.802032	3.514619	-0.417032
F	-4.164097	-1.698835	-2.018247
F	-3.801835	-3.515006	-0.416891
F	-1.813003	-4.717764	-1.064557
F	-0.894143	-3.636898	-3.101205
F	2.27595	-4.709917	-0.888567
F	1.515887	-3.673853	-2.989629
F	-1.813337	4.717704	-1.064493
F	-0.894403	3.63684	-3.101185
F	1.51562	3.674088	-2.989568
F	2.275763	4.71005	-0.888474
F	4.195121	3.489522	-0.104209
F	4.805562	1.594607	-1.480729
F	4.195261	-3.489316	-0.104321
F	4.805693	-1.594393	-1.480625

'C'-C ₆₀ F ₂₀			
C	3.437742	-1.301372	-0.996296

C	4.044169	0.000028	-0.188916
C	3.886336	-0.000014	1.380819
C	3.048826	-1.174371	1.918877
C	2.612933	-2.25189	1.216758
C	2.975681	-2.60613	-0.202452
C	2.264733	-0.716649	-1.719427
C	2.264758	0.716857	-1.719474
C	3.437745	1.301491	-0.996266
C	2.975659	2.606209	-0.202302
C	3.048797	1.174263	1.918934
C	2.296586	-0.725672	3.08031
C	1.18374	-1.408456	3.542485
C	0.725213	-2.553617	2.774782
C	1.397117	-2.915001	1.619742
C	0.682463	-3.405686	0.469694
C	1.604909	-3.449776	-0.727465
C	0.848905	-2.890018	-1.986228
C	1.179337	-1.425656	-2.140784
C	1.179306	1.425903	-2.140734
C	-0.000003	0.690562	-2.44349
C	0.00003	-0.690304	-2.443465
C	-1.179215	-1.425694	-2.141007
C	-0.848785	-2.890048	-1.986285
C	-1.604921	-3.449515	-0.72754
C	-0.68253	-3.405611	0.469659
C	-1.397192	-2.914944	1.619733
C	-0.725291	-2.553597	2.774779

C	2.296581	0.725476	3.080357
C	-2.296686	0.72546	3.080465
C	-1.183783	1.408139	3.542596
C	-0.725302	2.553334	2.774895
C	-1.397213	2.914792	1.619885
C	-2.613021	2.251732	1.21695
C	-3.886311	-0.000073	1.380862
C	-3.048964	-1.174392	1.919006
C	-2.296686	-0.725708	3.08042
C	-1.183799	-1.40845	3.542523
C	-0.000007	-0.691323	4.023509
C	0.00001	0.690949	4.023539
C	0.725171	2.553351	2.774871
C	1.397038	2.91483	1.619848
C	0.68241	3.405649	0.469843
C	-0.682586	3.405574	0.469835
C	-1.604999	3.449595	-0.727345
C	-2.975732	2.605656	-0.202417
C	-3.437432	1.301501	-0.996107
C	-4.043781	-0.00001	-0.189071
C	-2.613013	-2.251879	1.21685
C	-2.975686	-2.605694	-0.202537
C	-3.437404	-1.301479	-0.996162
C	-2.26466	-0.716696	-1.719682
C	-2.26472	0.716774	-1.719719
C	-1.179289	1.425877	-2.140959
C	-0.848863	2.89021	-1.986155

C	0.848831	2.890242	-1.986091
C	1.604889	3.449854	-0.727317
C	1.183723	1.408188	3.542561
C	2.612881	2.251802	1.21685
C	-3.048942	1.1742	1.919053
F	-5.160407	-0.000066	1.922735
F	-5.40016	-0.000031	-0.447476
F	-4.445086	1.701163	-1.857304
F	-4.006805	3.517283	-0.275653
F	-4.44503	-1.70111	-1.857414
F	-4.006741	-3.517345	-0.275837
F	-2.049592	-4.72285	-1.01023
F	-1.208025	-3.638517	-3.085634
F	2.049209	-4.72314	-1.010343
F	1.208286	-3.638407	-3.085609
F	-2.049692	4.722928	-1.009952
F	-1.208144	3.638716	-3.085461
F	1.208198	3.638678	-3.085439
F	2.049178	4.723251	-1.010083
F	4.006799	3.517694	-0.275484
F	4.445266	1.701359	-1.857326
F	4.006836	-3.517626	-0.275691
F	4.445242	-1.701166	-1.857447
F	5.160292	-0.000023	1.923292
F	5.400575	0.000027	-0.447374

$C_{60}F_{36}$			
C	3.66787625	1.61540644	0.71212358
C	3.26011317	0.78076029	2.03257849
C	3.53572188	-1.55580787	0.66895281
C	3.41024729	-0.78222654	2.08046348
C	0.87982697	0.50967257	2.97455614
C	2.17061165	-1.58593482	2.86335873
C	1.82968126	1.18092241	2.24725742
C	1.08428329	-0.78228451	3.69295828
C	1.44732248	-2.20286730	1.71301065
C	1.46673359	2.32744698	1.52102535
C	-1.38235220	-0.01095775	3.66855727
C	-0.46005929	0.93139997	2.95183300
C	0.13821610	-2.61273326	1.71666728
C	2.18131979	-2.18377126	0.51528183
C	-0.45108466	-3.06640798	0.52478900
C	-0.83070618	-2.54837105	2.86095652
C	-2.26207255	-2.63826695	2.11956566
C	-0.48545623	-1.34581495	3.81092392
C	-2.19600723	2.55134151	2.02332052
C	0.16041036	2.74520965	1.49350751
C	-1.90597938	-3.37022189	0.65909738
C	-3.09911576	-1.31346315	2.00988811
C	-2.97743469	-0.72394566	0.63510710
C	-2.78705563	-0.05086078	2.96643669
C	-3.13096697	1.27087665	2.00189776
C	-0.42508531	3.84214293	0.65310023

C	2.57676287	2.88217210	0.69206638
C	-0.80656098	2.05205545	2.24061508
C	-1.99965629	3.48542173	0.65055079
C	-3.00207776	0.68070687	0.63728985
C	2.20432984	-2.55739103	-2.00656537
C	-2.59038114	-2.87239662	-0.68178575
C	1.91959202	3.36045732	-0.66938136
C	2.20959987	-0.10411910	-2.23354071
C	-0.25688895	-3.34593649	-2.02682614
C	3.94165419	-0.78921374	-0.64075485
C	0.25893125	-3.05031444	-0.64882614
C	0.84506078	-2.64535571	-2.97623094
C	1.59902360	-2.62864299	-0.64436647
C	3.78110011	0.81725757	-0.63616936
C	0.37245928	3.99408831	-0.69173950
C	-0.28542938	3.34921631	-2.01757106
C	-2.59362153	2.86379943	-0.66419455
C	-1.81528099	2.99663840	-2.07241619
C	0.21488950	1.01020008	-2.96902560
C	-2.18209908	1.56998552	-2.86341405
C	0.54808152	2.12030251	-2.23526054
C	-1.07279431	0.79820943	-3.69289632
C	-2.54205697	0.68300558	-1.71852919
C	1.74802338	2.13583676	-1.50480214
C	0.44025227	-1.29703330	-3.67331218
C	1.03935682	-0.12713098	-2.94891250
C	-2.51599973	-0.68848209	-1.72866291

C	-2.76063044	1.37949802	-0.51820264
C	-2.76369107	-1.39685933	-0.54101656
C	-2.14398174	-1.58161096	-2.87595828
C	-1.77828470	-2.97123643	-2.13996896
C	-1.10951045	-0.86858487	-3.81896950
C	3.12265109	-1.26481872	-2.01864187
C	2.55807306	1.02906099	-1.47978864
F	-3.25213854	-1.86283688	-3.66928689
F	-1.48503725	-1.13789474	-5.11711398
F	1.15359136	-3.54540252	-3.97294245
F	0.92571200	-1.38005655	-4.97481422
F	-3.23335736	1.86674186	-3.70147885
F	-1.07946202	1.27123435	-4.98587045
F	-0.07277790	4.28200334	-3.02809786
F	-2.44012643	3.99379377	-2.78932733
F	-0.32469375	5.07179049	1.29680746
F	0.52356769	5.34312515	-0.92832611
F	2.97383363	-3.64883228	-2.34151665
F	4.08457628	-1.41573665	-2.99203543
F	4.51585819	-2.52439032	0.86300678
F	5.27036633	-1.06388427	-0.88116909
F	3.23193208	3.94906563	1.26482750
F	2.72589519	4.32262762	-1.23477252
F	4.89869952	2.18501758	0.95568559
F	4.91779189	1.30514914	-1.27363636
F	-2.64728172	3.41123580	2.99928457
F	-4.41112878	1.65333349	2.33428708

F	-1.61940529	0.41696805	4.97130794
F	-3.74191250	-0.04819449	3.95989080
F	-0.74904368	-3.69233984	3.64908267
F	-0.62635961	-1.79352377	5.10646197
F	2.78227108	-2.49302966	3.69919046
F	1.53057984	-0.64494919	4.98814996
F	-2.19145294	-4.70609871	0.83092274
F	-3.76635597	-3.56560980	-0.86099312
F	4.07397273	1.27314928	3.04828391
F	4.55152873	-1.06237088	2.79998291
F	-2.68200338	4.65748666	0.89422449
F	-3.82217007	3.48749618	-0.85949043
F	-3.02500735	-3.54830087	2.81848345
F	-4.41563686	-1.67050595	2.28514230
F	-0.17747850	-4.70642263	-2.30831107
F	-2.39726925	-3.97985789	-2.84584411

$C_{60}F_{48}$			
C	0.09357900	-3.40917900	-0.01238300
C	1.00228700	-3.64885000	-1.19645100
C	0.86400300	-2.97452800	1.10847600
C	2.49934300	-3.03284500	-0.67138200
C	3.18171500	-1.84649500	-1.47970800
C	2.11866900	-1.08243000	-2.20693000
C	2.35582600	0.33039200	-2.20373800
C	3.61297300	0.71076600	-1.48228700

C	3.38357500	2.05956100	-0.67478400
C	2.17134100	3.10950300	-1.18923400
C	1.25395300	3.18023100	0.00465400
C	1.86584700	2.58227800	1.15726200
C	1.15882800	2.30103400	2.29549700
C	-0.25467000	2.44378700	2.23646800
C	-0.90141700	1.43389300	3.01464400
C	0.25466100	-2.44381800	2.23643900
C	-1.15883600	-2.30105900	2.29546500
C	-1.57343600	-1.37773000	3.41708700
C	-0.09536200	-0.77950000	3.94863400
C	0.09534600	0.77944600	3.94864300
C	-1.86585100	-2.58228900	1.15722400
C	-2.99958000	-1.76386300	0.75873100
C	-3.38357300	-2.05954900	-0.67481900
C	-2.17133400	-3.10948800	-1.18928100
C	-1.32596000	-2.70440900	-2.45708800
C	-1.40122000	-1.20828100	-2.62289700
C	-0.11494700	-0.68089500	-2.92518600
C	0.11495800	0.68093300	-2.92517700
C	-0.92736500	1.60102900	-2.62449500
C	-0.35370300	2.98833600	-2.46316100
C	-1.00227900	3.64886700	-1.19640900
C	-2.49934100	3.03285200	-0.67134900
C	-3.30457100	-0.68786400	1.48548700
C	-3.85604800	0.62077200	0.90627500
C	-2.75821500	1.54963100	1.41796900

C	-2.17393000	2.55720800	0.71867100
C	-4.00012800	0.65711100	-0.67159000
C	-3.18171000	1.84651500	-1.47969400
C	-2.11866100	1.08246000	-2.20692100
C	-2.35581800	-0.33036300	-2.20374900
C	-3.61296500	-0.71074600	-1.48230700
C	-2.10670400	0.97995500	2.57647000
C	-0.09357900	3.40918000	-0.01234000
C	1.40123000	1.20831500	-2.62287900
C	0.35371100	-2.98830400	-2.46319800
C	4.00012800	-0.65710200	-0.67158600
C	3.85604400	-0.62078400	0.90627700
C	3.30456700	0.68784400	1.48550500
C	2.69892400	0.37762400	2.89002400
C	2.10669800	-0.97999100	2.57646600
C	2.75821100	-1.54964900	1.41795600
C	2.17393000	-2.55721900	0.71864400
C	0.90140800	-1.43393600	3.01462800
C	1.57342400	1.37768500	3.41710500
C	2.99957800	1.76385300	0.75876200
C	1.32597100	2.70444100	-2.45704900
C	0.92737400	-1.60099400	-2.62451300
C	-1.25395300	-3.18023200	0.00461000
C	-2.69893700	-0.37766100	2.89001500
C	-0.86400700	2.97451000	1.10851100
F	5.09566300	-0.93609500	1.43446300
F	5.33579200	-0.88924800	-0.93176700

F	4.10985200	-2.41605800	-2.33196200
F	3.35585300	-4.10981500	-0.69152100
F	4.55063200	2.79090700	-0.75148500
F	4.66617100	0.94232100	-2.35209500
F	1.22562000	-4.98318600	-1.44636200
F	0.57771200	-3.79522300	-3.55533600
F	2.80728600	4.30335700	-1.45269700
F	1.80833200	3.39495500	-3.54566000
F	-1.80831700	-3.39490900	-3.54571100
F	-2.80728200	-4.30333500	-1.45276500
F	-0.57770000	3.79526800	-3.55528900
F	-1.22561400	4.98320500	-1.44630400
F	-3.35585000	4.10982300	-0.69147900
F	-4.10984400	2.41609000	-2.33194200
F	-4.55063000	-2.79089300	-0.75153600
F	-5.09567000	0.93607200	1.43446500
F	-5.33579000	0.88926400	-0.93177600
F	-4.66615600	-0.94229500	-2.35212500
F	-3.69509900	-0.33708700	3.84583800
F	-2.10127200	-2.05538600	4.49547500
F	0.03667100	-1.22937100	5.24642700
F	-0.03669500	1.22930200	5.24643800
F	2.10125300	2.05531600	4.49550800
F	3.69507700	0.33704900	3.84585600
F	4.48361119	1.17798223	1.92381917
F	3.95904892	2.53690825	1.31039696
F	-4.48361681	-1.17800928	1.92378893

F	-3.95905170	-2.53692690	1.31035249
F	0.14446063	0.85031483	-4.26418387
F	-0.14444657	-0.85026003	-4.26419506
F	1.34758543	-1.79581651	-3.89256920
F	1.86179140	1.25420422	-3.89105776
F	-1.34757330	1.79586723	-3.89254983
F	-1.86177806	-1.25415422	-3.89107755
F	1.17741228	-4.18282552	1.62256910
F	0.40937289	-3.49867034	3.06460008
F	2.85395384	-3.53668214	1.35166812
F	1.43060149	-2.25196414	3.94912477
F	-0.00995265	-4.70778584	0.34173770
F	-1.44108313	-3.45877817	2.92991191
F	-0.40938884	3.49862840	3.06464171
F	-1.17741890	4.18280003	1.62262012
F	1.44107043	3.45874439	2.92996203
F	0.00995084	4.70778150	0.34180081
F	-1.43061423	2.25190823	3.94914995
F	-2.85395368	3.53666423	1.35170598