Internal conversion induced by external electric and magnetic fields

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Table S1. Calculated S_1-S_0 electronic excitation energies (cm^{-1}).

	ISO	**ICG**	**PM567**	**4B**	**a-NPO**	**BPBD-365**	**BM-Terphenyl**
$E(S_1-S_0)$	7828.9	15699.7	18333.2	21637.1	24180.4	25663.9	29503.5

Table S2. Cartesian coordinates (Å) for S_1 excited state of **ISO**.

O	0.032918304387	2.057032475022	0.000000000000
O	2.117223461381	-0.033358555410	0.000000000000
O	-2.117441979358	0.033141694393	0.000000000000
O	-0.032543854332	-2.056995486009	0.000000000000
C	0.738563826520	4.237256991910	0.000000000000
C	-0.604799388804	4.258008677412	0.000000000000
C	1.156976877819	2.846507482201	0.000000000000
C	2.423148318526	2.387948904959	0.000000000000
C	-1.065965227220	2.880815733658	0.000000000000
C	-2.345980787952	2.462488734358	0.000000000000
C	2.939520574926	1.048263653922	0.000000000000
C	-2.905079259416	1.140210932602	0.000000000000
C	-4.227870887254	0.775010640141	0.000000000000
C	4.250047088858	0.641341754479	0.000000000000
C	4.227740019233	-0.774915070148	0.000000000000
C	2.905028988424	-1.140353020609	0.000000000000
C	-4.250320464842	-0.641108544425	0.000000000000
C	-2.939878738969	-1.048498515962	0.000000000000
C	2.346368447964	-2.462897531403	0.000000000000
C	1.066180853244	-2.881037563702	0.000000000000
C	-1.156699299798	-2.846115142145	0.000000000000
C	-0.738740468532	-4.236874881909	0.000000000000
C	0.604675201805	-4.258013652419	0.000000000000
C	-2.423092574518	-2.387819202980	0.000000000000
H	5.067787079068	-1.453209057238	0.000000000000
H	-5.111478570215	-1.292401728590	0.000000000000
H	3.088686879725	-3.253954332672	0.000000000000
H	-1.425308867253	-5.071759833344	0.000000000000

H	1.264636347621	-5.114077745455	0.000000000000
H	-3.189784967043	-3.155301110551	0.000000000000
H	1.424835313201	5.072384902431	0.000000000000
H	3.190436770113	3.154833112489	0.000000000000
H	5.111061669191	1.292834122654	0.000000000000
H	-5.067798157077	1.453477159281	0.000000000000
H	-3.088266030669	3.253660923679	0.000000000000
H	-1.265175915635	5.113744301398	0.000000000000

Table S3. Cartesian coordinates (Å) for S_1 excited state of **ICG**.

C	11.689191846703	0.426357030897	-0.011957000876
C	11.087649803111	-0.854649061907	0.025954001901
C	9.718443703952	-0.987945071552	0.029063002113
C	10.900023789528	1.553825112554	-0.046492003354
C	9.485841687069	1.456009105462	-0.044503003244
C	8.873130642718	0.158531011486	-0.005717000436
C	7.309360529453	2.572016186302	-0.079149005731
C	8.679166628668	2.633056190724	-0.080429005802
N	5.370588389025	0.982605071170	-0.030297002182
C	6.724953487123	1.285489093118	-0.040148002916
C	7.458166540218	0.106306007704	-0.004332000327
C	6.495367470461	-1.066411077256	0.031448002281
C	5.148284372919	-0.358547025968	0.012634000932
C	6.618398479403	-1.972459142874	-1.211282087739
C	6.621385479600	-1.897838137474	1.324727095955
C	3.906716282953	-0.981826071141	0.035384002551
C	2.658281192543	-0.338352024507	0.038100002770
C	1.444277104615	-1.029489074584	0.036829002681
C	0.189309013721	-0.408118029577	0.036324002641
C	-1.019635073839	-1.113951080698	0.019818001460
C	-2.277979164978	-0.505697036647	0.016270001199
C	-3.473919251614	-1.242821090039	-0.012425000895
N	-5.868816425095	-1.530863110887	-0.053424003856
C	-4.764979345165	-0.723516052414	-0.014246001041
C	-5.209056377323	0.733535053112	0.028946002082
C	-7.052853510854	-0.795013057597	-0.035439002588
C	-6.715320486407	0.584928042362	0.014533001063
C	-7.692283557169	1.536804111311	0.041446003004
C	-9.063405656489	1.138829082474	0.019970001433
C	-9.390675680205	-0.254923018475	-0.029503002148
C	-8.359565605530	-1.231463089180	-0.057405004141
C	-4.745771343730	1.518135109978	-1.213439087867
C	-4.760202344820	1.436469104043	1.323992095902
C	-5.806845420617	-2.981429215956	-0.106811007744
C	-10.762543779585	-0.632819045844	-0.049019003527
C	-11.756705851575	0.316833022945	-0.021065001508
C	-11.430212827915	1.694820122736	0.027495001981
C	-10.111960732450	2.092413151535	0.047378003447
H	12.771499925103	0.514890037276	-0.013761000990
H	11.714487848499	-1.741345126112	0.052940003844
H	9.278064672056	-1.979343143348	0.058596004219

H	11.349856822115	2.543699184248	-0.076007005496
H	6.694764484937	3.466131251085	-0.106076007692
H	9.181466665042	3.596776260516	-0.108990007887
H	4.640571336109	1.687650122227	-0.061415004451
H	5.846102423457	-2.748293199061	-1.186930085979
H	7.594655550085	-2.465180178584	-1.233974089362
H	6.502074470987	-1.390773100748	-2.130085154265
H	6.510304471577	-1.262607091462	2.208092159932
H	5.846753423500	-2.671360193494	1.348985097737
H	7.596418550234	-2.391110173173	1.372668099437
H	3.918610283848	-2.070966149988	0.052134003763
H	2.611086189120	0.751059054423	0.041036002981
H	1.476321106955	-2.120185153570	0.031636002289
H	0.151728011009	0.681903049378	0.045208003285
H	-0.976805070765	-2.204349159654	0.006070000449
H	-2.307076167100	0.581356042114	0.033798002454
H	-3.371320244207	-2.326830168540	-0.035406002566
H	-7.446404539360	2.597140188134	0.079760005795
H	-8.627482624907	-2.283487165377	-0.093261006762
H	-5.192312376081	2.518111182393	-1.189700086196
H	-3.658694265034	1.630883118149	-1.238961089730
H	-5.066865367026	1.018216073774	-2.131704154383
H	-5.204741376974	2.436924176538	1.359019098441
H	-5.092807368881	0.879460063705	2.204566159686
H	-3.673278266083	1.544306111858	1.369341099207
H	-5.252424380460	-3.302307239206	-0.993808071991
H	-5.311436384726	-3.373076244347	0.786778056970
H	-6.815840493672	-3.386411245269	-0.157147011363
H	-11.008488797386	-1.691605122552	-0.086452006263
H	-12.799282927092	0.012106000890	-0.036358002650
H	-12.223910885393	2.435955176423	0.049011003532
H	-9.852189713600	3.147953228009	0.084744006151

Table S4. Cartesian coordinates (Å) for S_1 excited states of **PM567**.

F	-0.121449862778	-2.180331867954	-1.360455199557
F	0.190845989831	-2.357429579751	0.901761368314
N	1.254763807891	-0.539619326063	-0.254805914461
N	-1.191573360323	-0.552155127995	0.091414851647
C	1.228906649025	0.874243249331	-0.203464453748
C	-1.217179226143	0.859993444299	0.045237858302
C	-0.060674038402	1.592809353362	-0.171809504427
C	-2.450806326521	-1.011883085303	0.306225542167
C	-3.334698780556	0.084223304099	0.432456266326
C	-2.587766976459	1.257212572065	0.268601792465
C	2.524092080824	1.302429522362	-0.183613496294
C	3.388709465448	0.069825559048	-0.276719033056
C	2.535408874650	-1.016429031621	-0.311751395578
C	-3.132501772890	2.649310231884	0.378419749436
C	3.128921960663	2.662103588829	-0.082240349945
C	2.833343853215	-2.480054288624	-0.380679828582
C	-2.743149401675	-2.473678996189	0.348933789282

C	-5.626882811564	0.076795775566	-0.648032645950
C	-4.816311354878	-0.014135249005	0.658456960702
C	5.441742546142	0.014529544053	1.186557920964
C	4.874800826086	0.062673564536	-0.255779033533
C	-0.065597701756	3.071080403442	-0.437241220682
B	0.003266189245	-1.469637290425	-0.163586038859
H	-2.501112227151	3.290749596335	1.002067747570
H	-4.130207932140	2.637039043024	0.826191750834
H	-3.232297023122	3.143828607695	-0.597624386300
H	2.414498486911	3.428302222309	0.208506968090
H	3.942683382580	2.661611043770	0.653301785318
H	3.580732358340	2.963329054659	-1.037909548185
H	2.261808985817	-2.945565432365	-1.188904599121
H	3.899200633443	-2.647859451815	-0.552366212990
H	2.535199149641	-2.981385789977	0.544651146473
H	-3.805516835649	-2.660840481736	0.513829448221
H	-2.439851842736	-2.946367675394	-0.592759069923
H	-2.160366130473	-2.961893732545	1.137189253356
H	-6.702480978486	0.003744772281	-0.453971893907
H	-5.346656761279	-0.728687715797	-1.334443759646
H	-5.435311880705	1.026666629356	-1.157831537865
H	-5.141384730390	0.782439773669	1.339143522021
H	-5.052766287974	-0.954971493172	1.167825951613
H	6.536058705415	0.015077607109	1.163804289295
H	5.102995455628	-0.889497985453	1.699719711118
H	5.108875698037	0.876668758493	1.772138677374
H	5.249516755262	-0.805179394312	-0.809196175605
H	5.262642349211	0.957163462339	-0.758430287916
H	-1.037584657167	3.413325661225	-0.788093304109
H	0.660690688833	3.323147052723	-1.217629773209
H	0.190423998810	3.674980476202	0.447102447395

Table S5. Cartesian coordinates (Å) for S_1 excited states of **4B**.

C	1.671841121091	0.566597041037	-0.092723006700
C	2.986205216315	1.086434078701	-0.106261007688
C	3.310457239784	2.443825176989	-0.155872011276
C	2.203511159590	3.350472242678	-0.196922014276
C	0.895450064839	2.885379208972	-0.192676013930
C	0.574105041608	1.483294107421	-0.134768009775
C	-0.818275059266	1.367784099082	-0.134698009732
C	1.786778129426	-0.831772060235	-0.035133002563
C	3.161095228993	-1.127976081709	-0.016215001162
O	3.896799282280	0.035217002572	-0.059207004283
C	0.862895062488	-1.921435139192	0.005302000375
C	1.374762099585	-3.223402233506	0.060958004439
C	2.746073198899	-3.539953256414	0.079531005769
C	3.694356267572	-2.427548175834	0.039014002848
C	-0.538517039005	-2.036244147488	0.005725000431
C	-0.831187060184	-3.403791246548	0.061876004461
O	0.338736024518	-4.138844299793	0.095485006922

C	-1.630452118096	-1.110900080481	-0.034257002492
C	-2.940068212947	-1.633202118272	-0.014314001058
C	-3.250857235455	-3.001826217443	0.041768003021
C	-2.131698154413	-3.941765285507	0.082212005941
C	3.257033235929	-4.864121352330	0.135419009818
C	4.612356334081	-5.097069369218	0.151243010959
C	5.536570401018	-4.014108290750	0.112070008128
C	5.086988368472	-2.716812196810	0.057482004141
C	-4.578346331632	-3.513250254495	0.061322004460
C	-4.809945348392	-4.866431352471	0.117477008488
C	-3.719371269422	-5.781442418758	0.157086011355
C	-2.419276175240	-5.331021386162	0.139821010134
C	-1.752796126962	0.284432020594	-0.092176006655
C	-3.147650227996	0.577205041785	-0.104867007597
O	-3.860001279596	-0.617532044727	-0.056827004100
C	-1.363310098750	2.695133195226	-0.192833013994
C	-2.723502197253	2.933851212508	-0.196530014216
C	-3.683948266825	1.857585134573	-0.154661011208
N	-0.298619021652	3.597844260592	-0.244103017680
C	-0.608024044038	7.199161521470	1.087887078775
C	-0.478866034689	5.674191410980	1.142645082753
C	-0.420530030440	5.046088365526	-0.257855018688
H	2.395718173514	4.414443319729	-0.229097016613
H	2.552595184886	-5.690130412180	0.165269011956
H	5.789088419336	-1.888606136800	0.027560001987
H	-5.405149391516	-2.809676203529	0.030817002228
H	-1.589885115174	-6.031234436835	0.170100012300
H	-3.092664224031	3.952217286283	-0.228963016604
H	-0.645757046776	7.626792552416	2.095150151783
H	0.242609017588	7.654066554420	0.565634040946
H	-1.521371110190	7.505243543624	0.562898040789
H	-1.326049096030	5.241575379639	1.689542122401
H	0.425591030848	5.390101390445	1.694988122754
H	-1.320215095616	5.303288384120	-0.829268060063
H	0.428000031004	5.450042394742	-0.822019059529
C	4.765437345163	2.936372212710	-0.162974011820
C	-5.175956374900	2.228997161471	-0.168256012206
C	-6.125899443710	1.016002073583	-0.115413008350
H	-5.988786433800	0.351472025476	-0.972493070428
H	-5.985044433508	0.426352030860	0.794240057538
H	-7.160870518681	1.377211099773	-0.128615009302
C	-5.488311397516	3.016591218490	-1.466367106209
H	-4.889004354143	3.928370284563	-1.554832112623
H	-5.295265383541	2.400553173855	-2.351541170337
H	-6.545003474076	3.309695239733	-1.479649107172
C	-5.486373397392	3.122750226205	1.059642076736
H	-5.285593382833	2.585775187319	1.993276144354
H	-4.893199354449	4.042885292828	1.067555077346

H	-6.544727474061	3.410007247001	1.053405076308
C	4.861974352170	4.473169324012	-0.219609015915
H	4.403838318993	4.880790353545	-1.128065081702
H	4.390232317987	4.946863358338	0.649027046997
H	5.916821428597	4.768929345453	-0.222099016067
C	5.480087396950	2.460459178209	1.126885081631
H	6.521608472384	2.805102203196	1.125541081540
H	4.989490361399	2.869956207872	2.017471146156
H	5.481171397018	1.371075099331	1.208453087539
C	5.498318398274	2.365539171349	-1.403174101656
H	5.018769363505	2.703928195877	-2.328879168672
H	6.539124473645	2.712184196426	-1.414631102475
H	5.502442398551	1.273133092226	-1.400903101455
H	4.984765361080	-6.116883443082	0.194023014033
H	6.603393478323	-4.218664305556	0.125535009114
H	-3.919154283881	-6.848586496041	0.201455014590
H	-5.828310422181	-5.243922379854	0.131770009570

Table S6. Cartesian coordinates (Å) for S_1 excited states of **a-NPO**.

O	-2.982700239064	3.531523500779	4.747104158866
N	-3.025648592154	4.591865152590	2.746756052979
C	-2.987527050388	1.082222907374	-1.358424471386
C	-2.980854070931	0.087020921284	-0.388745957160
C	-2.985128671243	2.422933069489	-0.966192213969
C	-2.979517374810	2.769293407578	0.393397795497
C	-2.974226370420	1.787043357455	1.400363900425
C	-2.970768330186	0.402177136153	0.997097484232
C	-2.971007017225	2.080626821700	2.831492757119
C	-2.956079585115	-0.623443328144	1.969289662624
C	-2.944129326275	-0.320710054242	3.338362395833
C	-2.951754941781	0.993762642970	3.766314649804
C	-2.991643771673	3.394166509835	3.359043846285
C	-3.015704517450	4.884203057789	4.988940292391
C	-3.041525513295	5.504347129671	3.733499091424
C	-3.009424400982	5.360025642245	6.332439019690
C	-2.950131184676	4.456717056812	7.427835035997
C	-3.056785674437	6.754345730250	6.608006508653
C	-2.932507440387	4.933930902391	8.730372069342
C	-3.039245832153	7.213959839517	7.914559631287
C	-2.975578719552	6.310804691091	8.986995682941
H	-2.980245698867	3.812553765172	0.681475314349
H	-2.951953997836	-1.658629158165	1.638583202705
H	-2.929798018211	-1.124218147414	4.068984174728
H	-2.947134957480	1.220838865446	4.825187007486
H	-2.982636946025	-0.960334728563	-0.679172871177
H	-2.988437901437	3.210820936565	-1.713663751132
H	-2.994369721906	0.816789247186	-2.411745429679

H	-2.915877748204	3.391054871621	7.230810849765
H	-3.107996403128	7.463756301625	5.787727973210
H	-2.884004627887	4.230836444448	9.557038289229
H	-3.074275368657	8.282349405942	8.107194245247
H	-2.960809058464	6.677656448695	10.008662827950
H	-3.068421961250	6.565591300583	3.526858420470

Table S7. Cartesian coordinates (Å) for S_1 excited states of **BPBD-365**.

O	-2.755019847568	2.901120153151	3.794907820891
N	-3.424792068064	4.586931622250	5.110340495165
N	-3.335719462609	5.070656215299	3.870656877350
C	-3.080208816135	3.290192687341	5.075109042614
C	-2.931069775288	4.061354973200	3.068351102247
C	-3.034265801791	2.366882625435	6.150582071499
C	-3.367550015908	2.789302742015	7.466603715817
C	-2.664648270031	1.007750779007	5.954786371310
C	-3.335900029634	1.892995698117	8.519815553104
C	-2.641240501303	0.132813745600	7.024032322793
C	-2.976352802572	0.539049292044	8.337550800922
C	-2.695647448248	4.089969772238	1.680911198765
C	-2.896428028815	5.301728820025	0.943643391358
C	-2.257182965509	2.931102540303	0.966279328980
C	-2.677607411964	5.338358613667	-0.411130926756
C	-2.054056632792	2.984764508182	-0.391479224380
C	-2.257029248461	4.183408046023	-1.142774995767
C	-2.047539398296	4.221774626807	-2.582209206039
C	-1.822741291022	5.445288899444	-3.270959266930
C	-2.060092468235	3.035542212876	-3.366677376853
C	-1.621673357472	5.475460575626	-4.643751680369
C	-1.862791049906	3.073913892653	-4.739619552322
C	-1.640240031800	4.292387104916	-5.393607840661
C	-2.948079516539	-0.479144178718	9.483417839894
C	-3.328078221081	0.148971789773	10.837632823000
C	-1.524476313397	-1.078290874082	9.611096939170
C	-3.954140003398	-1.618784082236	9.179508987885
H	-3.647173769189	3.825066393057	7.625900837368
H	-2.405282803206	0.664634484148	4.959007254193
H	-3.598822549673	2.254035247249	9.507119310620
H	-2.357602357763	-0.899064675127	6.840046941472
H	-3.237317430502	6.181864063787	1.477952578035
H	-2.075607887337	2.011081549690	1.511426104452
H	-2.872795739070	6.263315669697	-0.942673731306
H	-1.689603575385	2.097011212869	-0.896695882970
H	-1.767817388071	6.373040402623	-2.711687890398
H	-2.267001730193	2.081963101782	-2.893074249570
H	-1.438949943237	6.426280596497	-5.136700135081
H	-1.891618996037	2.149582866696	-5.310060064605

H	-1.484526851541	4.319595652880	-6.467867952481
H	-3.287640762126	-0.614528490489	11.620943694760
H	-2.639276579167	0.950688200860	11.123493676725
H	-4.344491586674	0.555785789235	10.827649125304
H	-0.790439547229	-0.298905933672	9.839442180706
H	-1.498679840578	-1.818207182716	10.419179236671
H	-1.206462088408	-1.579519321394	8.692351239638
H	-3.711941088864	-2.141838634152	8.249660983561
H	-3.943118523603	-2.356676773678	9.989737140566
H	-4.972476252161	-1.227547791913	9.088371260277

Table S8. Cartesian coordinates (Å) for S_1 excited states of **BM-Terphenyl**.

C	-0.560532878577	5.114058492452	3.270534390887
C	-1.672244744105	4.833753036105	4.061048206132
C	0.683678510540	5.482202551117	3.918485783840
C	-1.638838188720	4.883995388739	5.460168464508
C	0.696441847471	5.476273231646	5.354701062882
C	-0.431487480263	5.204306655959	6.102457043030
C	1.894938092264	5.844115391303	3.225031068596
C	3.187826653921	5.602550792807	3.824554557000
C	1.926219966545	6.504616292145	1.949421791183
C	4.361512892934	5.955204030381	3.209804777497
C	3.099267246467	6.862294808070	1.337093044849
C	4.394100622305	6.615789260220	1.933098136014
C	5.602177991774	6.977108649395	1.233952965400
C	6.862223023059	7.314910936847	1.869915178421
C	5.569170486412	7.019647825437	-0.202408163676
C	7.962193419753	7.609056515126	1.068158021374
C	6.685579218234	7.306859561255	-0.961273485616
C	7.905415454615	7.602145362674	-0.331302809976
C	-0.689643821949	4.923264560592	1.778544834814
C	7.024747047842	7.458142158218	3.363826620642
H	-2.594882804934	4.538909142775	3.566284864330
H	-2.530211682274	4.655734143243	6.036696323248
H	1.608691485524	5.766809229731	5.864590787807
H	-0.383795257822	5.247493806103	7.187086549576
H	3.236328846437	5.039743281068	4.750767235122
H	0.994486901042	6.802271707692	1.485847675626
H	5.291563085302	5.656071255673	3.674723235151
H	3.048346482779	7.431552288309	0.415326515084
H	4.648312498684	6.747896242772	-0.706524590162
H	8.895880411340	7.880192161774	1.555479658673
H	6.618398756375	7.295828114460	-2.045673117195
H	8.788313116543	7.842899688089	-0.915768794343
H	0.209981695229	4.478130904345	1.343802335337
H	-1.536906033337	4.267970683128	1.556554505721
H	-0.871585221114	5.865750693854	1.244172402142

H	6.150661713522	7.923994780937	3.828450640318
H	7.181101820166	6.494929594438	3.868455842213
H	7.899727067217	8.075053996889	3.587818133886

Table S9. Calculated electronic excitation energies (cm^{-1}) for n = 1 – 50 singlet states.

n	ISO	ICG	PM567	4B	a-NPO	BPBD-365	BM-Terphenyl
1	7828.9	15699.7	18333.2	21637.1	24180.4	25663.9	29503.5
2	21554.7	18124.0	23422.5	24053.8	29702.7	31809.2	35677.4
3	25753.4	19960.1	27821.7	24685.3	32290.6	33180.7	35865.9
4	31163.5	22829.1	36466.6	27123.4	32900.4	34386.9	36344.6
5	34256.1	25680.3	38445.3	27916.5	34904.2	35332.9	37068.8
6	35814.6	28195.0	42605.7	28838.7	37763.9	35700.9	40304.1
7	36584.5	30225.5	44365.7	29846.4	38400.1	35956.2	40738.6
8	36629.7	30671.4	46143.2	30237.7	38575.6	38743.4	40878.4
9	37542.8	31609.3	46424.1	30380.4	38727.7	39058.6	42949.6
10	38095.9	32259.9	47530.0	31930.1	39845.1	39788.3	45293.4
11	41137.9	33024.5	48572.5	32485.4	42014.7	40444.3	46784.0
12	41508.9	33879.3	49131.5	33728.7	42565.3	40861.8	47137.4
13	41564.2	34906.4	49582.8	34648.1	43898.1	41398.4	47641.7
14	42021.0	35183.8	50125.4	36066.4	45473.2	43258.2	48392.1
15	42270.2	35539.9	50282.6	36205.7	47313.6	43795.1	48958.8
16	43504.9	35955.2	51351.2	36597.9	47617.4	44116.1	49024.2
17	44686.5	36727.2	51998.4	37578.1	47626.9	45406.5	49263.9
18	44983.0	37649.6	52073.2	37926.1	48307.7	45958.4	49836.4
19	46858.0	38086.4	52782.2	38603.7	48993.1	46855.2	50185.3
20	47742.0	38780.8	53413.7	38738.7	49737.7	47297.7	51194.0
21	48289.0	39377.6	54260.5	39398.8	50052.7	47913.2	51339.2
22	48974.9	39692.0	54517.5	39556.2	50430.9	48426.7	51563.4
23	49138.9	40107.9	55001.2	40334.8	50543.2	48745.4	51639.1
24	49273.1	40582.0	55387.1	40873.8	51086.7	49395.4	52928.9
25	49352.5	41073.3	55419.6	41069.3	51767.6	49403.4	53008.4
26	51276.9	41524.8	55708.1	41514.1	52201.0	49479.2	53513.8
27	51643.8	41813.3	56283.1	42037.9	52273.7	49559.9	53727.6
28	52961.7	42306.4	57197.5	42803.4	52639.5	49965.2	53863.3
29	53036.6	42757.5	57423.7	43253.8	53623.4	50113.8	54216.5
30	53377.3	43473.4	58075.5	44027.0	53970.9	51097.3	56171.6
31	53564.4	44231.0	58518.9	44233.0	54043.4	51414.2	56384.9
32	53566.8	44501.1	58786.0	44512.6	54360.8	51536.9	56882.9
33	53917.3	44640.5	59200.5	44767.7	54612.4	51892.7	57370.1
34	54056.4	44733.2	59367.9	44967.2	55578.7	51929.8	57801.8
35	54376.6	45026.5	59728.8	45339.4	55736.8	51947.3	57840.8
36	54686.8	45065.5	60153.2	45479.2	56072.0	52922.4	57922.4
37	55292.1	45089.1	61500.2	45942.5	56832.8	53035.7	58218.0
38	55620.1	45563.2	61718.8	46102.9	56960.4	53574.9	59503.7
39	55738.5	45680.1	61853.5	46432.4	57274.1	53854.6	59901.6
40	55883.1	46423.3	62114.5	46844.5	57798.7	53864.7	60070.0
41	57322.4	47087.1	62190.1	47157.7	58025.1	54161.8	60451.3

42	57331.1	47285.2	62479.2	47260.8	58726.6	54242.1	60673.7
43	57718.7	47435.9	62539.2	47491.1	59110.9	54324.5	60785.4
44	57954.6	47499.4	63305.2	47567.3	59246.5	54452.2	61007.9
45	58009.3	47770.6	63920.1	47752.2	59504.1	54499.7	61059.9
46	58033.4	47798.4	63961.1	48129.4	60312.9	54870.0	61298.7
47	58187.7	47996.6	64282.3	48203.8	60379.3	55116.3	62394.7
48	58201.2	48076.1	64426.3	48339.1	60481.3	55252.3	62570.4
49	59183.1	48479.9	64627.9	48429.6	60645.0	55444.6	62765.6
50	59405.7	48513.4	65099.6	48738.3	61191.0	55777.2	62900.0