```
clear
% Skip first line to get to data
f = fopen('WeightMatrixForImage2Noisy.dat.txt','r');
fgetl(f);
% Read in all data from matrix
data = fscanf(f, "%f");
fclose(f);
n = 1024;
% Take first [1:n^2] subset of data to store first matrix
weight_vector = data(1:(n*n));
% Reshape [n^2 x 1] vector into [n x n] matrix
weight_matrix = reshape(weight_vector, n, n);
D = diag(weight_matrix*ones(n,1));
L = D - weight_matrix;
Calculate D^{(-1/2)}
dinv = zeros(n,1);
for i = 1:n
    if(D(i,i) > 0)
       dinv(i) = 1/sqrt(D(i,i));
    end
end
norm_L = diag(dinv)*L*diag(dinv);
% Spectral Algorithms
% Spectral method using weight matrix W ? R [n x n]
[V,~] = eigs(weight_matrix, 2, 'smallestabs');
w_partition_vector = V(:,2);
weight_partition_omega_1 = [];
weight_partition_omega_2 = [];
for i = 1:n
    if w_partition_vector(i) > 0
        weight_partition_omega_1 = [weight_partition_omega_1,i];
    else if w_partition_vector(i) <= 0</pre>
            weight_partition_omega_2 = [weight_partition_omega_2,i];
    end
    end
end
disp(weight_partition_omega_1)
disp(weight_partition_omega_2)
% Spectral method using weighted laplacian matrix ? ? R [n x n]
[V,~] = eigs(L, 2, 'smallestabs');
L_partition_vector = V(:,2);
L partition omega 1 = [];
L_partition_omega_2 = [];
for i = 1:n
    if L_partition_vector(i) > 0
        L_partition_omega_1 = [L_partition_omega_1,i];
    else if L_partition_vector(i) <= 0</pre>
            L_partition_omega_2 = [L_partition_omega_2,i];
```

```
end
    end
end
disp(L partition omega 1)
disp(L_partition_omega_2)
% Spectral method using weighted normalized laplacian matrix ?? ? R [n
[V,~] = eigs(norm_L, 2, 'smallestabs');
norm_L_partition_vector = V(:,2);
norm_L_partition_omega_1 = [];
norm_L_partition_omega_2 = [];
for i = 1:n
    if norm_L_partition_vector(i) > 0
        norm_L_partition_omega_1 = [norm_L_partition_omega_1,i];
    else if norm_L_partition_vector(i) <= 0</pre>
            norm_L_partition_omega_2 = [norm_L_partition_omega_2,i];
    end
    end
end
disp(norm_L_partition_omega_1)
disp(norm_L_partition_omega_2)
% SDP algorithms
Y_matrix_weight = sdp_W(weight_matrix, n);
Y matrix laplace = sdp W min(L, n);
Y_matrix_normal = sdp_W_min(norm_L, n);
% SDP partitions
[weight_omega_1, weight_omega_2] = partition_sdp(Y_matrix_weight, n);
disp(weight_omega_1)
disp(weight_omega_2)
[laplace_omega_1, laplace_omega_2] = partition_sdp(Y_matrix_laplace,
n);
disp(laplace omega 1)
disp(laplace_omega_2)
[normal_omega_1, normal_omega_2] = partition_sdp(Y_matrix_normal, n);
disp(normal_omega_1)
disp(normal_omega_2)
  Columns 1 through 6
                       8
                                               10
                                                            11
 17
  Columns 7 through 12
          24
                      25
                                   26
                                               27
                                                            31
 32
  Columns 13 through 18
          34
                                                            42
                      39
                                   40
                                               41
 43
```

Columns 19	through	24			
46 56		47	49	50	55
Columns 25	through	30			
57		58	59	63	64
65					
Columns 31	through	36			
66 78		67	68	76	77
Columns 37	through	42			
7 <i>9</i> 8 <i>6</i>		80	83	84	85
Columns 43	through	48			
87 100		95	96	97	99
Columns 49	through	54			
101 115		107	109	111	113
Columns 55	through	60			
116 124		117	118	119	123
Columns 61	through	66			
125 132		126	127	128	131
Columns 67	through	72			
133 145		139	140	142	144
Columns 73	through	78			
147 155		148	149	150	154
Columns 79	through	84			

156 167	157	164	165	166
Columns 85 thr	ough 90			
		101	100	100
168 183	169	171	172	173
Columns 91 thr	ough 96			
187 198	188	192	193	197
Columns 97 thr	ough 102			
200 207	201	202	203	204
Columns 103 th	rough 108			
208 218	209	214	215	217
Columns 109 th	rough 114			
219 225	220	221	222	224
Columns 115 th	rough 120			
226 241	230	231	235	240
Columns 121 th	rough 126			
242 250	245	246	247	248
Columns 127 th	rough 132			
254 264	256	257	258	261
Columns 133 th	rough 138			
268 278	271	272	273	274
Columns 139 th	rough 144			
282 293	287	288	289	290
Columns 145 th	rough 150			

303	294	295	297	299	301
Colum	ns 151 thr	ough 156			
311	304	305	306	309	310
Colum	ns 157 thr	ough 162			
319	312	314	315	316	318
Colum	ns 163 thr	ough 168			
329	320	321	325	327	328
Colum	ns 169 thr	ough 174			
344	331	332	341	342	343
Colum	ns 175 thr	ough 180			
352	345	347	348	349	351
Colum	ns 181 thr	ough 186			
362	357	358	359	360	361
Colum	ns 187 thr	ough 192			
370	363	364	365	368	369
Colum	ns 193 thr	ough 198			
388	374	375	378	380	381
Colum	ns 199 thr	ough 204			
401	389	390	398	399	400
Colum	ns 205 thr	ough 210			
419	406	407	411	412	413

Columns 21	1 through 216			
420 436	421	429	430	434
Columns 21	7 through 222			
437 446	438	439	442	443
Columns 22.	3 through 228			
448 453	449	450	451	452
Columns 22	9 through 234			
455 467	459	460	461	466
Columns 23	5 through 240			
468 476	469	472	474	475
Columns 24	1 through 246			
477 483	478	480	481	482
Columns 24	7 through 252			
484 492	486	487	490	491
Columns 25	3 through 258			
493 504	498	499	500	501
Columns 25	9 through 264			
505 512	506	507	508	511
Columns 26.	5 through 270			
513 522	517	519	520	521
Columns 27	1 through 276			
523 532	524	525	530	531

Columns 277	through 282			
536 549	537	542	543	545
Columns 283	through 288			
552 561	553	558	559	560
Columns 289	through 294			
562 582	568	573	574	577
Columns 295	through 300			
584 593	585	590	591	592
Columns 301	through 306			
598 611	599	606	609	610
Columns 307	through 312			
613 620	614	615	616	619
Columns 313	through 318			
621 630	622	624	625	629
Columns 319	through 324			
631 639	633	635	636	637
Columns 325	through 330			
641 646	642	643	644	645
Columns 331	through 336			
651 661	652	653	654	660
Columns 337	through 342			

669	662	6	563	664	667	668
Columns	343 t.	hrough	348			
677	670	6	571	672	675	676
Columns	: 349 t.	hrough	354			
694	679	6	584	689	692	693
Columns	355 t.	hrough	360			
704	697	6	598	699	701	703
Columns	: 361 t.	hrough	366			
719	707	7	712	713	714	715
Columns	: 367 t.	hrough	372			
726	720	7	721	722	723	725
Columns	: 373 t.	hrough	378			
745	730	7	731	735	736	744
Columns	: 379 t.	hrough	384			
763	746	7	747	752	760	762
Columns	: 385 t.	hrough	390			
776	767	7	768	770	771	774
Columns	: 391 t.	hrough	396			
785	777	7	778	779	783	784
Columns	: 397 t.	hrough	402			
795	786	7	788	790	791	792
Columns	: 403 t.	hrough	408			

812	800	801	803	804	810
Colum	mns 409	through 414			
823	814	815	816	821	822
Colum	mns 415	through 420			
830	824	825	827	828	829
Colum	mns 421	through 426			
838	831	834	835	836	837
Colum	mns 427	through 432			
854	843	845	846	851	853
Colum	mns 433	through 438			
863	858	859	860	861	862
Colum	mns 439	through 444			
879	866	869	870	876	877
Colum	mns 445	through 450			
894	884	885	888	892	893
Colum	mns 451	through 456			
906	899	900	901	902	903
Colum	mns 457	through 462			
918	907	908	910	914	915
Colum	mns 463	through 468			
938	920	925	934	935	936

Column	ıs 469	through 474			
948	940	943	945	946	947
Column	s 475	through 480			
966	951	953	957	958	961
Column	s 481	through 486			
975	967	968	969	972	973
Column	s 487	through 492			
985	977	978	979	980	984
Column	s 493	through 498			
996	991	992	993	994	995
Column	s 499	through 504			
1010	999	1000	1004	1005	1009
Column	s 505	through 510			
1021	1011	1016	1017	1018	1019
Column	s 511	through 513			
	1022	1023	1024		
Column	s 1 tl	hrough 6			
6	1	2	3	4	5
Column	s 7 tl	hrough 12			
18	12	13	14	15	16
Column	ıs 13 t	through 18			
28	19	20	21	22	23

Columns 19	through	24			
29 37		30	33	35	36
Columns 25	through	30			
38 52		44	45	48	51
Columns 31	through	36			
53 69		54	60	61	62
Columns 37	through	42			
7 <i>0</i>		71	72	73	74
Columns 43	through	48			
81 91		82	88	89	90
Columns 49	through	54			
92 103		93	94	98	102
Columns 55	through	60			
10 <i>4</i> 112		105	106	108	110
Columns 61	through	66			
114 130		120	121	122	129
Columns 67	through	72			
134 141		135	136	137	138
Columns 73	through	78			
143 158		146	151	152	153
Columns 79	through	84			
159 170		160	161	162	163

Columns 85 th	rough 90			
174 179	175	176	177	178
Columns 91 th	rough 96			
180 186	181	182	184	185
Columns 97 th	rough 102			
189 196	190	191	194	195
Columns 103 t.	hrough 108			
199 212	205	206	210	211
Columns 109 t.	hrough 114			
213 229	216	223	227	228
Columns 115 t.	hrough 120			
232 238	233	234	236	237
Columns 121 t	hrough 126			
239 252	243	244	249	251
Columns 127 t.	hrough 132			
253 263	255	259	260	262
Columns 133 t.	hrough 138			
265 275	266	267	269	270
Columns 139 t	hrough 144			
276 283	277	279	280	281
Columns 145 t	hrough 150			

296	284	285	286	291	292
Column	ns 151 thr	ough 156			
313	298	300	302	307	308
Column	ns 157 thr	ough 162			
330	317	322	323	324	326
Column	ns 163 thr	ough 168			
338	333	334	335	336	337
Column	ns 169 thr	ough 174			
354	339	340	346	350	353
Column	s 175 thr	ough 180			
37 <i>2</i>	355	356	366	367	371
Column	ns 181 thr	ough 186			
383	373	376	377	379	382
Column	ns 187 thr	ough 192			
392	384	385	386	387	391
Column	ns 193 thr	ough 198			
402	393	394	395	396	397
Column	ns 199 thr	ough 204			
410	403	404	405	408	409
Column	s 205 thr	ough 210			
422	414	415	416	417	418
Column	ns 211 thr	ough 216			

428	423	424	425	426	427
Colum	ns 217 thro	ugh 222			
441	431	432	433	435	440
Colum	ns 223 thro	ugh 228			
457	444	445	447	454	456
Colum	ns 229 thro	ugh 234			
470	458	462	463	464	465
Colum	ns 235 thro	ugh 240			
489	471	473	479	485	488
Colum	ns 241 thro	ugh 246			
503	494	495	496	497	502
Colum	ns 247 thro	ugh 252			
518	509	510	514	515	516
Colum	ns 253 thro	ugh 258			
534	526	527	528	529	533
Colum	ns 259 thro	ugh 264			
544	535	538	539	540	541
Colum	ns 265 thro	ugh 270			
554	546	547	548	550	551
Colum	ns 271 thro	ugh 276			
565	555	556	557	563	564

Columns 277	' through 282			
566 572	567	569	570	571
Columns 283	3 through 288			
575 581	576	578	579	580
Columns 289	through 294			
583 594	586	587	588	589
Columns 295	through 300			
595 602	596	597	600	601
Columns 301	through 306			
603 612	604	605	607	608
Columns 307	through 312			
617 628	618	623	626	627
Columns 313	3 through 318			
632 648	634	638	640	647
Columns 319	through 324			
649 658	650	655	656	657
Columns 325	through 330			
659 678	665	666	673	674
Columns 331	through 336			
680 686	681	682	683	685
Columns 337	through 342			
687 696	688	690	691	695

Columns 343	through 348			
700 709	702	705	706	708
Columns 349	through 354			
710 724	711	716	717	718
Columns 355	through 360			
727 734	728	729	732	733
Columns 361	through 366			
737 742	738	739	740	741
Columns 367	through 372			
743 753	748	749	750	751
Columns 373	through 378			
754 759	755	756	757	758
Columns 379	through 384			
761 772	764	765	766	769
Columns 385	through 390			
773 787	775	780	781	782
Columns 391	through 396			
789 798	793	794	796	797
Columns 397	through 402			
799 808	802	805	806	807
Columns 403	through 408			

819	809	811	813	817	818
Columi	ns 409 thro	ough 414			
840	820	826	832	833	839
Column	ns 415 thro	ough 420			
849	841	842	844	847	848
Column	ns 421 thro	ough 426			
864	850	852	855	856	857
Columi	ns 427 thro	ough 432			
873	865	867	868	871	872
Column	ns 433 thro	ough 438			
882	874	875	878	880	881
Column	ns 439 thro	ough 444			
891	883	886	887	889	890
Column	ns 445 thro	ough 450			
905	895	896	897	898	904
Columi	ns 451 thro	ough 456			
917	909	911	912	913	916
Columi	ns 457 thro	ough 462			
926	919	921	922	923	924
Columi	ns 463 thro	ough 468			
932	927	928	929	930	931
Columi	ns 469 thro	ough 474			

944	933	937	939	941	942				
		t h 40	0						
Colum	ns 475	through 48	0						
956	949	950	952	954	955				
Colum	ns 481	through 48	6						
965	959	960	962	963	964				
Colum	ns 487	through 49	2						
982	970	971	974	976	981				
Colum	ns 493	through 49	8						
990	983	986	987	988	989				
Colum	ns 499	through 50	4						
1006	997	998	1001	1002	1003				
Colum	ns 505	through 51	0						
1015	1007	1008	1012	1013	1014				
Colum	n 511								
	1020								
RCOND 9.63298	Warning: First input matrix is close to singular or badly scaled. RCOND = 9.632985e-18. Results may be inaccurate. Columns 1 through 13								
368 398		370 371	372 373	374 375	395 396	397			
Colum	ns 14 t	through 26							
400 429	401 430	402 403	404 405	406 407	426 427	428			
Colum	ns 27 t	through 39							

431 432 459 460	433	434	435	436	437	438	439	457	458
Columns 40	through	52							
461 462 489 490	463	464	465	466	467	468	469	470	471
Columns 53	through	65							
491 492 502 503	493	494	495	496	497	498	499	500	501
Columns 66	through	78							
521 522 532 533	523	524	525	526	527	528	529	530	531
Columns 79	through	91							
534 535 563 564	554	555	556	557	558	559	560	561	562
Columns 92	through	104							
565 566 595 596	567	587	588	589	590	591	592	593	594
Columns 105	through	115							
597 598	599	624	625	626	627	628	629	630	631
Columns 1 t	hrough 6								
1									
6		2		3		4		5	
6 Columns 7 t	chrough 1			3		4		5	
	through 1			<i>3</i>		10		5	
Columns 7 t		2 8							
Columns 7 t		2 8							
Columns 7 t 7 12 Columns 13	through	2 8 18 14		9		10		11	
Columns 7 t 7 12 Columns 13 13	through	2 8 18 14		9		10		11	

30	25		26	27	28	29
Columns	31	through	36			
36	31		32	33	34	35
Columns	37	through	42			
42	37		38	39	40	41
Columns	43	through	48			
48	43		44	45	46	47
Columns	49	through	54			
54	49		50	51	52	53
Columns	55	through	60			
60	55		56	57	58	59
Columns	61	through	66			
66	61		62	63	64	65
Columns	67	through	72			
72	67		68	69	70	71
Columns	73	through	78			
78	73		74	75	76	77
Columns	79	through	84			
84	79		80	81	82	83
Columns	85	through	90			
90	85		86	87	88	89
Columns	91	through	96			

96	91	92	93	94	95
Column	s 97 throug	rh 102			
102	97	98	99	100	101
Column	s 103 throu	gh 108			
108	103	104	105	106	107
Column	s 109 throu	gh 114			
114	109	110	111	112	113
Column	s 115 throu	gh 120			
120	115	116	117	118	119
Column	s 121 throu	gh 126			
126	121	122	123	124	125
Column	s 127 throu	gh 132			
132	127	128	129	130	131
Column	s 133 throu	gh 138			
138	133	134	135	136	137
Column	s 139 throu	gh 144			
144	139	140	141	142	143
Column	s 145 throu	gh 150			
150	145	146	147	148	149
Column	s 151 throu	gh 156			
156	151	152	153	154	155

Columns 157	through 162			
157 162	158	159	160	161
Columns 163	through 168			
163 168	164	165	166	167
Columns 169	through 174			
169 174	170	171	172	173
Columns 175	through 180			
175 180	176	177	178	179
Columns 181	through 186			
181 186	182	183	184	185
Columns 187	through 192			
187 192	188	189	190	191
Columns 193	through 198			
193 198	194	195	196	197
Columns 199	through 204			
199 204	200	201	202	203
Columns 205	through 210			
205 210	206	207	208	209
Columns 211	through 216			
211 216	212	213	214	215
Columns 217	through 222			
				221

Columns 223	through 228			
223 228	224	225	226	227
Columns 229	through 234			
229 234	230	231	232	233
Columns 235	through 240			
235 240	236	237	238	239
Columns 241	through 246			
241 246	242	243	244	245
Columns 247	through 252			
247 252	248	249	250	251
Columns 253	through 258			
253 258	254	255	256	257
Columns 259	through 264			
259 264	260	261	262	263
Columns 265	through 270			
265 270	266	267	268	269
Columns 271	through 276			
271 276	272	273	274	275
Columns 277	through 282			
277 282	278	279	280	281
Columns 283	through 288			

283 288	284	285	286	287
	9 through 294			
289	290	291	292	293
294	250	271	2,72	2,5
Columns 295	5 through 300			
295 300	296	297	298	299
Columns 301	1 through 306			
301 306	302	303	304	305
Columns 307	7 through 312			
307 312	308	309	310	311
Columns 313	3 through 318			
313 318	314	315	316	317
Columns 319	9 through 324			
319 324	320	321	322	323
Columns 325	5 through 330			
325 330	326	327	328	329
Columns 33	1 through 336			
331 336	332	333	334	335
Columns 337	7 through 342			
337 342	338	339	340	341
Columns 343	3 through 348			
343 348	344	345	346	347
Columns 349	9 through 354			

354	349	350	351	352	353
Columi	ns 355 throi	ıgh 360			
360	355	356	357	358	359
Columi	ns 361 throi	ıgh 366			
366	361	36 <i>2</i>	363	364	365
Columi	ns 367 throi	ıgh 372			
380	367	376	377	378	379
Column	ns 373 throi	ıgh 378			
386	381	38 <i>2</i>	383	384	385
Column	ns 379 throi	igh 384			
392	387	388	389	390	391
Column	ns 385 throi	ıgh 390			
411	393	394	408	409	410
Columi	ns 391 throi	ıgh 396			
417	412	413	414	415	416
Column	ns 397 throi	ıgh 402			
423	418	419	420	421	422
Columi	ns 403 throi	ıgh 408			
443	424	425	440	441	442
Columi	ns 409 throi	ıgh 414			
449	444	445	446	447	448

Columns 415	through 420			
450 455	451	452	453	454
Columns 421	through 426			
456 476	472	473	474	475
Columns 427	through 432			
477 482	478	479	480	481
Columns 433	through 438			
483 488	484	485	486	487
Columns 439	through 444			
504 509	505	506	507	508
Columns 445	through 450			
510 515	511	512	513	514
Columns 451	through 456			
516 536	517	518	519	520
Columns 457	through 462			
537 542	538	539	540	541
Columns 463	through 468			
543 548	544	545	546	547
Columns 469	through 474			
549 568	550	551	552	553
Columns 475	through 480			
569 574	570	571	572	573

Columns 481	through 486			
575 580	576	577	578	579
Columns 487	through 492			
581 586	582	583	584	585
Columns 493	through 498			
600 605	601	602	603	604
Columns 499	through 504			
606 611	607	608	609	610
Columns 505	through 510			
612 617	613	614	615	616
Columns 511	through 516			
618 623	619	620	621	622
Columns 517	through 522			
632 637	633	634	635	636
Columns 523	through 528			
638 643	639	640	641	642
Columns 529	through 534			
644 649	645	646	647	648
Columns 535	through 540			
650 655	651	652	653	654
Columns 541	through 546			

661	656	657	658	659	660
	ns 547	through 552			
COTAIN	662	663	664	665	666
667	002	003	004	003	000
Column	ns 553	through 558			
673	668	669	670	671	672
Columr	ns 559	through 564			
679	674	675	676	677	678
Column	ns 565	through 570			
685	680	681	682	683	684
Column	ns 571	through 576			
691	686	687	688	689	690
Columr	ns 577	through 582			
697	692	693	694	695	696
Columr	ns 583	through 588			
703	698	699	700	701	702
Column	ns 589	through 594			
709	704	705	706	707	708
Column	ns 595	through 600			
715	710	711	712	713	714
Column	ns 601	through 606			
721	716	717	718	719	720
Columr	ıs 607	through 612			

727	722	723	724	725	726
Colum	ns 613 thi	ough 618			
733	728	729	730	731	732
Colum	ns 619 thi	cough 624			
739	734	735	736	737	738
Colum	ns 625 thi	rough 630			
745	740	741	742	743	744
Colum	ns 631 thi	rough 636			
751	746	747	748	749	750
Colum	ns 637 thi	cough 642			
757	752	753	754	755	756
Colum	ns 643 thi	cough 648			
763	758	759	760	761	762
Colum	ns 649 thi	cough 654			
769	764	765	766	767	768
Colum	ns 655 thi	cough 660			
775	770	771	772	773	774
Colum	ns 661 thi	rough 666			
781	776	777	778	779	780
Colum	ns 667 thi	rough 672			
787	782	783	784	785	786

Columns 673	through 678			
788 793	789	790	791	792
Columns 679	through 684			
794 799	795	796	797	798
Columns 685	through 690			
800 805	801	802	803	804
Columns 691	through 696			
806 811	807	808	809	810
Columns 697	through 702			
812 817	813	814	815	816
Columns 703	through 708			
818 823	819	820	821	822
Columns 709	through 714			
824 829	825	826	827	828
Columns 715	through 720			
830 835	831	832	833	834
Columns 721	through 726			
836 841	837	838	839	840
Columns 727	through 732			
842 847	843	844	845	846
Columns 733	through 738			
848 853	849	850	851	852

Columns 739	through 744			
854 859	855	856	857	858
Columns 745	5 through 750			
860 865	861	862	863	864
Columns 751	through 756			
866 871	867	868	869	870
Columns 757	through 762			
87 <i>2</i> 877	873	874	875	876
Columns 763	through 768			
878 883	879	880	881	882
Columns 769	through 774			
884 889	885	886	887	888
Columns 775	through 780			
890 895	891	892	893	894
Columns 781	through 786			
896 901	897	898	899	900
Columns 787	through 792			
902 907	903	904	905	906
Columns 793	3 through 798			
908 913	909	910	911	912
Columns 799	through 804			

919	914	915	916	917	918
Columr	ıs 805	through 810			
925	920	921	922	923	924
Columr	ns 811	through 816			
931	926	927	928	929	930
Columr	ns 817	through 822			
937	932	933	934	935	936
Column	ns 823	through 828			
943	938	939	940	941	942
Columr	ıs 829	through 834			
949	944	945	946	947	948
Columr	ns 835	through 840			
955	950	951	952	953	954
Columr	ns 841	through 846			
961	956	957	958	959	960
Column	ns 847	through 852			
967	962	963	964	965	966
Column	ns 853	through 858			
973	968	969	970	971	972
Column	ns 859	through 864			
979	974	975	976	977	978
Columr	ns 865	through 870			

985	980		981		982		983		984	
Colum	ns 871	through	876							
991	986		987		988		989		990	
Colum	ns 877	through	882							
997	992		993		994		995		996	
Colum	ns 883	through	888							
1003	998		999		1000		1001		1002	
Colum	ns 889	through	894							
1009	1004	1	.005		1006		1007		1008	
Colum	ns 895	through	900							
1015	1010	1	011		1012		1013		1014	
Colum	ns 901	through	906							
1021	1016	1	017		1018		1019		1020	
Colum	ns 907	through	909							
	1022	1	023		1024					
RCOND 1.30201	Warning: First input matrix is close to singular or badly scaled. RCOND = 1.302017e-17. Results may be inaccurate. Columns 1 through 13									
368 398	369 399	370	371	372	373	374	375	395	396	397
Colum	ns 14	through	26							
400 429	401 430	402	403	404	405	406	407	426	427	428
Colum	ns 27	through	39							

431 432 459 460	433 434	435	436	437	438	439	457	458
Columns 40	through 52							
461 462 489 490	463 464	465	466	467	468	469	470	471
Columns 53	through 65							
491 492 502 503	493 494	495	496	497	498	499	500	501
Columns 66	through 78							
521 522 532 533	523 524	525	526	527	528	529	530	531
Columns 79	through 91							
534 535 563 564	554 555	556	557	558	559	560	561	562
Columns 92	through 104							
565 566 595 596	567 587	588	589	590	591	592	593	594
Columns 105	through 115							
597 598	599 624	625	626	627	628	629	630	631
Columns 1 t	hrough 6							
6	2		3		4		5	
Columns 7 t	hrough 12							
7	8		9		10		11	
Columns 13	through 18							
13 18	14		15		16		17	
Columns 19	through 24							
19 24	20		21		22		23	

30	25		26	27	28	29
Columns	31	through	36			
36	31		32	33	34	35
Columns	37	through	42			
42	37		38	39	40	41
Columns	43	through	48			
48	43		44	45	46	47
Columns	49	through	54			
54	49		50	51	52	53
Columns	55	through	60			
60	55		56	57	58	59
Columns	61	through	66			
66	61		62	63	64	65
Columns	67	through	72			
72	67		68	69	70	71
Columns	73	through	78			
78	73		74	75	76	77
Columns	79	through	84			
84	79		80	81	82	83
Columns	85	through	90			
90	85		86	87	88	89
Columns	91	through	96			

96	91	92	93	94	95
Columns	97 through	102			
102	97	98	99	100	101
Columns	103 through	h 108			
108	103	104	105	106	107
Columns	109 through	h 114			
114	109	110	111	112	113
Columns	115 through	h 120			
120	115	116	117	118	119
Columns	121 through	h 126			
126	121	122	123	124	125
Columns	127 through	h 132			
132	127	128	129	130	131
Columns	133 through	h 138			
138	133	134	135	136	137
Columns	139 through	h 144			
144	139	140	141	142	143
Columns	145 through	h 150			
150	145	146	147	148	149
Columns	151 through	h 156			
156	151	152	153	154	155

Columns 157	through 162			
157 162	158	159	160	161
Columns 163	through 168			
163 168	164	165	166	167
Columns 169	through 174			
169 174	170	171	172	173
Columns 175	through 180			
175 180	176	177	178	179
Columns 181	through 186			
181 186	182	183	184	185
Columns 187	through 192			
187 192	188	189	190	191
Columns 193	through 198			
193 198	194	195	196	197
Columns 199	through 204			
199 204	200	201	202	203
Columns 205	through 210			
205 210	206	207	208	209
Columns 211	through 216			
211 216	212	213	214	215
Columns 217	through 222			
217 222	218	219	220	221

Columns 223	through 228			
223 228	224	225	226	227
Columns 229	through 234			
229 234	230	231	232	233
Columns 235	through 240			
235 240	236	237	238	239
Columns 241	through 246			
241 246	242	243	244	245
Columns 247	through 252			
247 252	248	249	250	251
Columns 253	through 258			
253 258	254	255	256	257
Columns 259	through 264			
259 264	260	261	262	263
Columns 265	through 270			
265 270	266	267	268	269
Columns 271	through 276			
271 276	272	273	274	275
Columns 277	through 282			
277 282	278	279	280	281
Columns 283	through 288			

288	283		284	285	286	287
	a 200	through	204			
COTUMI				001	000	000
294	289	•	290	291	292	293
Column	s 295	through	300			
300	295		296	297	298	299
Column	s 301	through	306			
306	301		302	303	304	305
Column	s 307	through	312			
312	307		308	309	310	311
Column	s 313	through	318			
318	313		314	315	316	317
Column	s 319	through	324			
324	319		320	321	322	323
Column	s 325	through	330			
330	325		326	327	328	329
Column	s 331	through	336			
336	331		332	333	334	335
Column	s 337	through	342			
342	337		338	339	340	341
Column	s 343	through	348			
348	343		344	345	346	347
Column	s 349	through	354			

354	349	350	351	352	353
Colum	ns 355 thro	ıgh 360			
360	355	356	357	358	359
Column	ns 361 thro	ıgh 366			
366	361	362	363	364	365
Column	ns 367 thro	ıgh 372			
380	367	376	377	378	379
Column	ns 373 thro	ıgh 378			
386	381	382	383	384	385
Colum	ns 379 thro	ıgh 384			
392	387	388	389	390	391
Columi	ns 385 thro	ıgh 390			
411	393	394	408	409	410
Column	ns 391 thro	ıgh 396			
417	412	413	414	415	416
Colum	ns 397 thro	ıgh 402			
423	418	419	420	421	422
Column	ns 403 thro	ıgh 408			
443	424	425	440	441	442
Colum	ns 409 thro	ıgh 414			
449	444	445	446	447	448

Columns 415	through 420			
450 455	451	452	453	454
Columns 421	through 426			
456 476	472	473	474	475
Columns 427	through 432			
477 482	478	479	480	481
Columns 433	through 438			
483 488	484	485	486	487
Columns 439	through 444			
50 <i>4</i> 50 <i>9</i>	505	506	507	508
Columns 445	through 450			
510 515	511	512	513	514
Columns 451	through 456			
516 536	517	518	519	520
Columns 457	through 462			
537 542	538	539	540	541
Columns 463	through 468			
543 548	544	545	546	547
Columns 469	through 474			
549 568	550	551	552	553
Columns 475	through 480			
569 574	570	571	572	573

Columns 481	through 486			
575 580	576	577	578	579
Columns 487	through 492			
581 586	582	583	584	585
Columns 493	through 498			
600 605	601	602	603	604
Columns 499	through 504			
606 611	607	608	609	610
Columns 505	through 510			
612 617	613	614	615	616
Columns 511	through 516			
618 623	619	620	621	622
Columns 517	through 522			
632 637	633	634	635	636
Columns 523	through 528			
638 643	639	640	641	642
Columns 529	through 534			
644 649	645	646	647	648
Columns 535	through 540			
650 655	651	652	653	654
Columns 541	through 546			

661	656	657	658	659	660
	ns 547	through 552			
COTAIN	662	663	664	665	666
667	002	003	004	005	000
Column	ns 553	through 558			
673	668	669	670	671	672
Columr	ns 559	through 564			
679	674	675	676	677	678
Column	ns 565	through 570			
685	680	681	682	683	684
Column	ns 571	through 576			
691	686	687	688	689	690
Columr	ns 577	through 582			
697	692	693	694	695	696
Columr	ns 583	through 588			
703	698	699	700	701	702
Column	ns 589	through 594			
709	704	705	706	707	708
Columr	ns 595	through 600			
715	710	711	712	713	714
Column	ns 601	through 606			
721	716	717	718	719	720
Columr	ıs 607	through 612			

727	722	723	724	725	726
Colum	ns 613 th	arough 618			
733	728	729	730	731	732
Colum	ns 619 th	rough 624			
739	734	735	736	737	738
Colum	ns 625 th	arough 630			
745	740	741	742	743	744
Colum	ns 631 th	erough 636			
751	746	747	748	749	750
Colum	ns 637 th	arough 642			
757	752	753	754	755	756
Colum	ns 643 th	rough 648			
763	758	759	760	761	762
Colum	ns 649 th	arough 654			
769	764	765	766	767	768
Colum	ns 655 th	rough 660			
775	770	771	772	773	774
Colum	ns 661 th	nrough 666			
781	776	777	778	779	780
Colum	ns 667 th	arough 672			
787	782	783	784	785	786

Columns 6	573 through	678			
78 793	38	789	790	791	792
Columns 6	579 through	684			
79 799	94	795	796	797	798
Columns 6	85 through	690			
805	00	801	802	803	804
Columns 6	591 through	696			
811	06	807	808	809	810
Columns 6	597 through	702			
817	12	813	814	815	816
Columns 7	03 through	708			
81 823	18	819	820	821	822
Columns 7	709 through	714			
829	24	825	826	827	828
Columns 7	715 through	720			
835	30	831	832	833	834
Columns 7	721 through	726			
83 841	36	837	838	839	840
Columns 7	727 through	732			
847	12	843	844	845	846
Columns 7	733 through	738			
84 853	18	849	850	851	852

Column	s 739	through 744			
859	854	855	856	857	858
Column	s 745	through 750			
865	860	861	862	863	864
Column	s 751	through 756			
871	866	867	868	869	870
Column	s 757	through 762			
877	872	873	874	875	876
Column	s 763	through 768			
883	878	879	880	881	882
Column	s 769	through 774			
889	884	885	886	887	888
Column	s 775	through 780			
895	890	891	892	893	894
Column	s 781	through 786			
901	896	897	898	899	900
Column	s 787	through 792			
907	902	903	904	905	906
Column	s 793	through 798			
913	908	909	910	911	912
Column	s 799	through 804			

919	914	915	916	917	918
Column	ns 805	through 810			
925	920	921	922	923	924
Column	ns 811	through 816			
931	926	927	928	929	930
Column	ns 817	through 822			
937	932	933	934	935	936
Column	ns 823	through 828			
943	938	939	940	941	942
Column	ıs 829	through 834			
949	944	945	946	947	948
Column	ns 835	through 840			
955	950	951	952	953	954
Column	ns 841	through 846			
961	956	957	958	959	960
Column	ns 847	through 852			
967	962	963	964	965	966
Column	ns 853	through 858			
973	968	969	970	971	972
Column	ns 859	through 864			
979	974	975	976	977	978
Column	ıs 865	through 870			

985	980	981	982	983	984
Colum	ns 871	through 876			
991	986	987	988	989	990
Colum	ns 877	through 882			
997	992	993	994	995	996
Colum	ns 883	through 888			
1003	998	999	1000	1001	1002
Colum	ns 889	through 894			
1009	1004	1005	1006	1007	1008
Colum	ns 895	through 900			
1015	1010	1011	1012	1013	1014
Colum	ns 901	through 906			
1021	1016	1017	1018	1019	1020
Colum	ns 907	through 909			
	1022	1023	1024		
Calling	SDPT3	4.0: 524800 var	riables, 102	5 equality co	onstraints
dim. o ****** SDPT ***** versio HKM	f sdp ******* 3: Infe ****** n pred 1 p dstep	raints = 1025 var = 1024, ************************************	************* !lowing algo ************ on scale_da 0	************ rithms ************ ta	*******
		0/3.2e+04/3.2e+0 ol 1 1	02 2.1e+09	0.000000e+00	0.000000e+00

```
1|0.989|1.000|3.4e+02|7.8e-02|2.5e+07|-2.981090e+02 -2.092802e+06|
 0:0:02 | chol 1 1
 2|1.000|1.000|3.0e-07|7.8e-03|1.8e+06|-2.657478e+01 -1.755479e+06|
 0:0:03 | chol 1 1
 3/1.000/0.960/1.6e-07/1.1e-03/7.1e+04/-7.577577e+01 -7.111774e+04/
 0:0:03/ chol 1 1
 4|1.000|1.000|7.6e-08|7.8e-05|4.7e+04|-3.574024e+03 -5.085529e+04|
 0:0:04 | chol 1 1
 5/0.273/1.000/5.3e-08/7.8e-06/7.0e+04/-1.834852e+04 -8.843402e+04/
 0:0:05 | chol 1 1
 6 | 1.000 | 1.000 | 1.1e-08 | 7.9e-07 | 3.4e+04 | -2.405985e+04 -5.812817e+04 |
 0:0:05 | chol 1 1
 7/0.901/1.000/3.6e-11/8.0e-08/9.0e+03/-3.725040e+04 -4.627247e+04/
0:0:06 | chol 1 1
 8|0.889|1.000|6.0e-11|7.8e-09|5.3e+03|-3.953078e+04 -4.481715e+04|
0:0:06 | chol 1 1
 9|0.948|0.917|3.4e-10|2.8e-09|4.1e+02|-4.407515e+04 -4.448216e+04|
 0:0:07 | chol 1 1
10/0.562/0.960/1.1e-10/8.0e-10/2.6e+02/-4.418789e+04 -4.445048e+04/
 0:0:08 | chol 1 1
11/0.954/0.958/1.3e-10/2.6e-10/1.7e+01/-4.442993e+04 -4.444696e+04/
0:0:08 | chol 1 1
12/0.968/0.971/4.9e-10/9.4e-11/6.5e-01/-4.444615e+04 -4.444679e+04/
 0:0:09 | chol 1 1
13/0.985/0.980/1.6e-10/4.0e-11/4.9e-02/-4.444674e+04-4.444679e+04/
0:0:09 | chol 1 1
14|0.966|0.958|2.3e-10|3.3e-11|2.1e-03|-4.444679e+04 -4.444679e+04|
0:0:10 | chol 1 1
15/0.986/0.986/2.1e-10/4.5e-11/1.3e-04/-4.444679e+04 -4.444679e+04/
0:0:10/
 stop: max(relative gap, infeasibilities) < 1.49e-08</pre>
______
number of iterations = 15
primal objective value = -4.44467873e+04
dual objective value = -4.44467874e+04
gap := trace(XZ)
                   = 1.28e-04
relative gap
                     = 1.44e-09
actual relative gap = 1.40e-09
rel. primal infeas (scaled problem) = 2.05e-10
            "
                   II II
rel. dual
                                   = 4.55e-11
rel. primal infeas (unscaled problem) = 0.00e+00
            " = 0.00e+00
rel. dual
norm(X), norm(y), norm(Z) = 6.6e+02, 1.4e+03, 1.4e+03
norm(A), norm(b), norm(C) = 2.0e+03, 3.3e+01, 2.0e+02
Total CPU time (secs) = 10.24
CPU time per iteration = 0.68
termination code
                   = 0
DIMACS: 3.4e-09 0.0e+00 3.3e-09 0.0e+00 1.4e-09 1.4e-09
Status: Solved
Optimal value (cvx_optval): +44446.8
```

```
num. of constraints = 1025
 dim. of sdp var = 1024, num. of sdp <math>blk = 1
******************
     SDPT3: Infeasible path-following algorithms
*******************
 version predcorr gam expon scale_data
     HKM 1 0.000 1 0
it pstep dstep pinfeas dinfeas gap
                                                                        prim-obj
                                                                                                  dual-obj
 cputime
 0/0.000/0.000/3.2e+04/8.7e+01/2.1e+09/ 2.314646e+07  0.000000e+00/
 0:0:02 | spchol 1 1
 1/0.989/1.000/3.4e+02/2.1e-02/2.5e+07/ 2.673162e+05 -2.070198e+06/
 0:0:02 | chol 1 1
 2|1.000|1.000|3.0e-07|2.1e-03|1.8e+06| 2.257738e+04 -1.732875e+06|
 0:0:03/ chol 1 1
 3|1.000|0.960|1.6e-07|2.9e-04|7.1e+04| 2.252819e+04 -4.851378e+04|
 0:0:03/ chol 1 1
 4|1.000|1.000|7.6e-08|2.1e-05|4.7e+04| 1.902994e+04 -2.825133e+04|
 0:0:04/ chol 1 1
 5/0.273/1.000/5.3e-08/2.2e-06/7.0e+04/ 4.255437e+03 -6.583005e+04/
 0:0:05 | chol 1 1
 6|1.000|1.000|1.1e-08|2.2e-07|3.4e+04|-1.455887e+03 -3.552420e+04|
 0:0:05 | chol 1 1
 7/0.901/1.000/1.5e-10/2.4e-08/9.0e+03/-1.464644e+04 -2.366851e+04/
 0:0:06 | chol 1 1
 8/0.889/1.000/1.2e-10/2.2e-09/5.3e+03/-1.692682e+04 -2.221319e+04/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/2.2e-09/
 0:0:07 | chol 1 1
 9|0.948|0.917|3.0e-10|7.9e-10|4.1e+02|-2.147119e+04 -2.187820e+04|
 0:0:07 | chol 1 1
10/0.562/0.960/4.7e-12/2.5e-10/2.6e+02/-2.158393e+04-2.184652e+04/
 0:0:08 | chol 1 1
11/0.954/0.958/7.0e-11/6.7e-11/1.7e+01/-2.182596e+04 -2.184300e+04/
 0:0:08 | chol 1 1
12/0.968/0.971/6.4e-11/2.0e-11/6.5e-01/-2.184218e+04 -2.184283e+04/
 0:0:09 | chol 1 1
13/0.985/0.980/7.0e-11/2.6e-12/4.9e-02/-2.184278e+04 -2.184282e+04/
 0:0:09 | chol 1 1
14|0.966|0.958|2.6e-10|3.5e-12|2.1e-03|-2.184282e+04 -2.184282e+04|
 0:0:10 | chol 1 2
15/0.986/0.986/1.0e-09/5.1e-12/1.3e-04/-2.184282e+04 -2.184282e+04/
 0:0:10/
   stop: max(relative gap, infeasibilities) < 1.49e-08</pre>
_____
 number of iterations = 15
 primal objective value = -2.18428245e+04
 dual objective value = -2.18428246e+04
 gap := trace(XZ) = 1.29e-04
 relative gap
                                         = 2.95e-09
 actual relative gap = 2.95e-09
```

Calling SDPT3 4.0: 524800 variables, 1025 equality constraints

```
rel. primal infeas (scaled problem) = 1.02e-09
rel. dual " " = 5.11e-12
rel. primal infeas (unscaled problem) = 0.00e+00
rel. dual " " = 0.00e+00
norm(X), norm(y), norm(Z) = 6.6e+02, 7.0e+02, 1.4e+03
norm(A), norm(b), norm(C) = 2.0e+03, 3.3e+01, 7.5e+02
Total CPU time (secs) = 10.41
CPU time per iteration = 0.69
termination code = 0
DIMACS: 1.7e-08 0.0e+00 1.3e-10 0.0e+00 3.0e-09 3.0e-09
Status: Solved
Optimal value (cvx optval): -21842.8
Calling SDPT3 4.0: 524800 variables, 1025 equality constraints
num. of constraints = 1025
dim. of sdp var = 1024, num. of sdp blk = 1
******************
  SDPT3: Infeasible path-following algorithms
********************
version predcorr gam expon scale_data
  HKM 1 0.000 1 0
it pstep dstep pinfeas dinfeas gap
                                   prim-obj
                                               dual-obj
cputime
 0|0.000|0.000|3.2e+04|1.9e+03|2.1e+09| 1.048576e+06 0.000000e+00|
0:0:02 | spchol 1 1
 1/0.990/1.000/3.3e+02/4.7e-01/2.4e+07/ 1.189218e+04 -2.091777e+06/
0:0:02 | chol 1 1
2|1.000|1.000|3.0e-07|4.7e-02|1.7e+06| 1.024940e+03 -1.748188e+06|
 0:0:03/ chol 1 1
 3|1.000|0.988|1.6e-07|5.2e-03|2.1e+04| 1.024842e+03 -2.027522e+04|
 0:0:03 | chol 1 1
 4|1.000|0.891|2.6e-08|9.8e-04|2.4e+03| 1.015890e+03 -1.388601e+03|
 0:0:04 | chol 1 1
 5/1.000/1.000/5.3e-09/4.7e-05/1.9e+03/ 4.978417e+02 -1.412025e+03/
 0:0:05/ chol 1 1
6|0.833|1.000|6.8e-10|4.7e-06|1.1e+03|-4.540803e+02 -1.532733e+03|
 0:0:05/ chol 1 1
 7|1.000|0.981|8.7e-10|5.5e-07|2.4e+02|-7.717316e+02 -1.007609e+03|
 0:0:06 | chol 1 1
 8|0.905|0.973|3.1e-10|6.0e-08|4.5e+01|-9.343895e+02 -9.795630e+02|
 0:0:06 | chol 1 1
 9|0.864|0.970|7.3e-11|1.5e-08|6.2e+00|-9.709660e+02 -9.771379e+02|
 0:0:07 | chol 1 1
10/0.968/0.966/3.4e-11/4.6e-09/7.7e-01/-9.762753e+02 -9.770478e+02/
 0:0:08 | chol 1 1
11/0.962/0.981/2.3e-10/1.3e-09/3.0e-02/-9.770122e+02 -9.770426e+02/
 0:0:08 | chol 1 1
```

```
12|0.923|0.994|3.7e-10|1.8e-11|5.5e-03|-9.770370e+02 -9.770425e+02|
 0:0:09 | chol 1 1
13/0.946/1.000/3.3e-10/1.5e-11/7.1e-04/-9.770418e+02-9.770425e+02/
0:0:09 | chol 1 1
14/1.000/1.000/4.6e-10/2.3e-11/1.3e-04/-9.770423e+02 -9.770425e+02/
 0:0:10 | chol 1 1
15/1.000/1.000/3.8e-10/3.4e-11/2.8e-06/-9.770425e+02-9.770425e+02/
0:0:10/
 stop: max(relative gap, infeasibilities) < 1.49e-08</pre>
_____
number of iterations
primal objective value = -9.77042469e+02
dual objective value = -9.77042472e+02
gap := trace(XZ)
                  = 2.83e-06
relative gap
                    = 1.45e-09
actual relative gap = 1.43e-09
rel. primal infeas (scaled problem) = 3.79e-10
           " = 3.39e-11
rel. dual
rel. primal infeas (unscaled problem) = 0.00e+00
           " = 0.00e+00
rel. dual
norm(X), norm(y), norm(Z) = 6.6e+02, 3.1e+01, 6.3e+01
norm(A), norm(b), norm(C) = 2.0e+03, 3.3e+01, 3.4e+01
Total CPU time (secs) = 10.18
CPU time per iteration = 0.68
termination code = 0
DIMACS: 6.3e-09 0.0e+00 5.8e-10 0.0e+00 1.4e-09 1.4e-09
Status: Solved
Optimal value (cvx_optval): -977.042
 Columns 1 through 6
        481
                  482
                            483
                                        484
                                                   485
 486
 Columns 7 through 12
        487
                            513
                                        514
                                                   515
                  488
 516
 Columns 13 through 18
        517
                  518
                            519
                                        520
                                                   536
 537
 Columns 19 through 24
        538
                  539
                             540
                                        541
                                                   542
 543
 Columns 25 through 30
```

544 549		545	546	547	548
Columns 31	through	36			
550 569		551	552	553	568
Columns 37	through	42			
570 575		571	572	573	574
Columns 43	through	48			
576 581		577	578	579	580
Columns 49	through	54			
582 600		583	584	585	586
Columns 55	through	60			
601 606		602	603	604	605
Columns 61	through	66			
607 612		608	609	610	611
Columns 67	through	72			
613 618		614	615	616	617
Columns 73	through	78			
619 632		620	621	622	623
Columns 79	through	84			
633 638		634	635	636	637
Columns 85	through	90			
639 644		640	641	642	643
Columns 91	through	96			

650	645	646	647	648	649
Column	ns 97 thro	ıgh 102			
656	651	652	653	654	655
Colum	ns 103 thro	ough 108			
662	657	658	659	660	661
Colum	ns 109 thro	ough 114			
668	663	664	665	666	667
Colum	ns 115 thro	ough 120			
674	669	670	671	672	673
Column	ns 121 thro	ough 126			
680	675	676	677	678	679
Colum	ns 127 thro	ough 132			
686	681	682	683	684	685
Colum	ns 133 thro	ough 138			
692	687	688	689	690	691
Colum	ns 139 thro	ough 144			
698	693	694	695	696	697
Column	ns 145 thro	ough 150			
704	699	700	701	702	703
Colum	ns 151 thro	ough 156			
710	705	706	707	708	709

Columns 157	through 162			
711 716	712	713	714	715
Columns 163	through 168			
717 722	718	719	720	721
Columns 169	through 174			
723 728	724	725	726	727
Columns 175	through 180			
729 734	730	731	732	733
Columns 181	through 186			
735 740	736	737	738	739
Columns 187	through 192			
741 746	742	743	744	745
Columns 193	through 198			
747 752	748	749	750	751
Columns 199	through 204			
753 758	754	755	756	757
Columns 205	through 210			
759 764	760	761	762	763
Columns 211	through 216			
765 770	766	767	768	769
Columns 217	through 222			
771 776	772	773	774	775

Columns 223	through 228			
777 782	778	779	780	781
Columns 229	through 234			
783 788	784	785	786	787
Columns 235	through 240			
789 794	790	791	792	793
Columns 241	through 246			
795 800	796	797	798	799
Columns 247	through 252			
801 806	802	803	804	805
Columns 253	through 258			
807 812	808	809	810	811
Columns 259	through 264			
813 818	814	815	816	817
Columns 265	through 270			
819 824	820	821	822	823
Columns 271	through 276			
825 830	826	827	828	829
Columns 277	through 282			
831 836	832	833	834	835
Columns 283	through 288			

842	837	838	839	840	841
Colum	ns 289	through 294			
848	843	844	845	846	847
Column	ns 295	through 300			
854	849	850	851	852	853
Colum	ns 301	through 306			
860	855	856	857	858	859
Colum	ns 307	through 312			
866	861	862	863	864	865
Colum	ns 313	through 318			
87 <i>2</i>	867	868	869	870	871
Colum	ns 319	through 324			
878	873	874	875	876	877
Colum	ns 325	through 330			
884	879	880	881	882	883
Colum	ns 331	through 336			
890	885	886	887	888	889
Colum	ns 337	through 342			
896	891	892	893	894	895
Column	ns 343	through 348			
902	897	898	899	900	901
Colum	ns 349	through 354			

908	903	904	905	906	907
Colum	nns 355 thro	ough 360			
914	909	910	911	912	913
Colum	nns 361 thro	ugh 366			
920	915	916	917	918	919
Colum	nns 367 thro	ough 372			
926	921	922	923	924	925
Colum	nns 373 thro	ough 378			
932	927	928	929	930	931
Colum	nns 379 thro	ough 384			
938	933	934	935	936	937
Colum	nns 385 thro	ough 390			
944	939	940	941	942	943
Colum	nns 391 thro	ough 396			
950	945	946	947	948	949
Colum	nns 397 thro	ough 402			
956	951	952	953	954	955
Colum	nns 403 thro	ough 408			
962	957	958	959	960	961
Colum	nns 409 thro	ough 414			
968	963	964	965	966	967

Columns 415	through 420				
969 974	970	971	972	973	
Columns 421	through 426				
975 980	976	977	978	979	
Columns 427	through 432				
981 986	982	983	984	985	
Columns 433	through 438				
987 992	988	989	990	991	
Columns 439	through 444				
993 998	994	995	996	997	
Columns 445	through 450				
999 1004	1000	1001	1002	1003	
Columns 451	through 456				
1005 1010	1006	1007	1008	1009	
Columns 457	through 462				
1011 1016	1012	1013	1014	1015	
Columns 463	through 468				
1017 1022	1018	1019	1020	1021	
Columns 469	through 470				
1023	1024				
Columns 1 ti	hrough 13				
1 2 12 13	3 4	5 6	7 8	9 10	11

Columns 14 through 2	6						
14 15 16 25 26	17 18	3 19	20	21	22	23	24
Columns 27 through 3	9						
27 28 29 38 39	30 32	1 32	33	34	35	36	37
Columns 40 through 5	2						
40 41 42 51 52	43 44	45	46	47	48	49	50
Columns 53 through 6	5						
53 54 55 64 65	56 57	7 58	59	60	61	62	63
Columns 66 through 7	8						
66 67 68 77 78	69 70	71	72	73	74	75	76
Columns 79 through 9	1						
79 80 81 90 91	82 83	8 8 4	85	86	87	88	89
Columns 92 through 1	04						
92 93 94 103 104	95 96	5 97	98	99	100	101	102
Columns 105 through	117						
105 106 107 1 116 117	08 109	9 110	111	112	113	114	115
Columns 118 through	130						
118 119 120 1 129 130	21 122	2 123	124	125	126	127	128
Columns 131 through	143						
131 132 133 1 142 143	34 135	5 136	137	138	139	140	141
Columns 144 through	156						
144 145 146 1 155 156	47 148	3 149	150	151	152	153	154

Columns 157	through 169							
157 158 168 169	159 160	161	162	163	164	165	166	167
Columns 170	through 182							
170 171 181 182	172 173	174	175	176	177	178	179	180
Columns 183	through 195							
183 184 194 195	185 186	187	188	189	190	191	192	193
Columns 196	through 208							
196 197 207 208	198 199	200	201	202	203	204	205	206
Columns 209	through 221							
209 210 220 221	211 212	213	214	215	216	217	218	219
Columns 222	through 234							
222 223 233 234	224 225	226	227	228	229	230	231	232
Columns 235	through 247							
235 236 246 247	237 238	239	240	241	242	243	244	245
Columns 248	through 260							
248 249 259 260	250 251	252	253	254	255	256	257	258
Columns 261	through 273							
261 262 272 273	263 264	265	266	267	268	269	270	271
Columns 274	through 286							
274 275 285 286	276 277	278	279	280	281	282	283	284
Columns 287	through 299							

287 288 298 299	289 290	291	292	293	294	295	296	297
Columns 300	through 312							
300 301 311 312	302 303	304	305	306	307	308	309	310
Columns 313	through 325							
313 314 324 325	315 316	317	318	319	320	321	322	323
Columns 326	through 338							
326 327 337 338	328 329	330	331	332	333	334	335	336
Columns 339	through 351							
339 340 350 351	341 342	343	344	345	346	347	348	349
Columns 352	through 364							
352 353 363 364	354 355	356	357	358	359	360	361	362
Columns 365	through 377							
365 366 376 377	367 368	369	370	371	372	373	374	375
Columns 378	through 390							
378 379 389 390	380 381	382	383	384	385	386	387	388
Columns 391	through 403							
391 392 402 403	393 394	395	396	397	398	399	400	401
Columns 404	through 416							
404 405 415 416	406 407	408	409	410	411	412	413	414
Columns 417	through 429							
417 418 428 429	419 420	421	422	423	424	425	426	427
Columns 430	through 442							

430 431 441 442	432 433	434	435	436	437	438	439	440
Columns 443	through 455							
443 444 454 455	445 446	447	448	449	450	451	452	453
Columns 456	through 468							
456 457 467 468	458 459	460	461	462	463	464	465	466
Columns 469	through 481							
469 470 480 489	471 472	473	474	475	476	477	478	479
Columns 482	through 494							
490 491 501 502	492 493	494	495	496	497	498	499	500
Columns 495	through 507							
503 504 522 523	505 506	507	508	509	510	511	512	521
Columns 508	through 520							
524 525 535 554	526 527	528	529	530	531	532	533	534
Columns 521	through 533							
555 556 566 567	557 558	559	560	561	562	563	564	565
Columns 534	through 546							
587 588 598 599	589 590	591	592	593	594	595	596	597
Columns 547	through 554							
624 625	626 627	628	629	630	631			
Columns 1 t.	hrough 6							
481 486	482		483		484		485	
Calumna 7 +	hannah 10							

Columns 7 through 12

487 516		488	513	514	515
Columns 13	through	18			
517 537		518	519	520	536
Columns 19	through	24			
538 543		539	540	541	542
Columns 25	through	30			
544 549		545	546	547	548
Columns 31	through	36			
550 569		551	552	553	568
Columns 37	through	42			
57 <i>0</i> 575		571	572	573	574
Columns 43	through	48			
576 581		577	578	579	580
Columns 49	through	54			
582 600		583	584	585	586
Columns 55	through	60			
601 606		602	603	604	605
Columns 61	through	66			
607 612		608	609	610	611
Columns 67	through	72			
613 618		614	615	616	617

Columns 73 through	n 78			
619 632	620	621	622	623
Columns 79 through	1 84			
633 638	634	635	636	637
Columns 85 through	n 90			
639 644	640	641	642	643
Columns 91 through	1 96			
645 650	646	647	648	649
Columns 97 through	102			
651 656	652	653	654	655
Columns 103 throug	rh 108			
657 662	658	659	660	661
Columns 109 throug	rh 114			
663 668	664	665	666	667
Columns 115 throug	rh 120			
669 674	670	671	672	673
Columns 121 throug	nh 126			
675 680	676	677	678	679
Columns 127 throug	nh 132			
681 686	682	683	684	685
Columns 133 throug	rh 138			
687 692	688	689	690	691

Columns 139	through 144			
693 698	694	695	696	697
Columns 145	through 150			
699 704	700	701	702	703
Columns 151	through 156			
705 710	706	707	708	709
Columns 157	through 162			
711 716	712	713	714	715
Columns 163	through 168			
717 722	718	719	720	721
Columns 169	through 174			
723 728	724	725	726	727
Columns 175	through 180			
729 734	730	731	732	733
Columns 181	through 186			
735 740	736	737	738	739
Columns 187	through 192			
741 746	742	743	744	745
Columns 193	through 198			
747 752	748	749	750	751
Columns 199	through 204			

758	753	754	755	756	757
Column	ns 205	through 210			
764	759	760	761	762	763
Column	ns 211	through 216			
770	765	766	767	768	769
Column	ns 217	through 222			
776	771	772	773	774	775
Column	ns 223	through 228			
782	777	778	779	780	781
Column	ns 229	through 234			
788	783	784	785	786	787
Column	ns 235	through 240			
794	789	790	791	792	793
Column	ns 241	through 246			
800	795	796	797	798	799
Column	ns 247	through 252			
806	801	802	803	804	805
Column	ns 253	through 258			
812	807	808	809	810	811
Column	ns 259	through 264			
818	813	814	815	816	817
Column	ıs 265	through 270			

824	819	820	821	822	823
Column	ns 271	through 276			
830	825	826	827	828	829
Column	ns 277	through 282			
836	831	832	833	834	835
Column	ns 283	through 288			
842	837	838	839	840	841
Column	ns 289	through 294			
848	843	844	845	846	847
Column	ns 295	through 300			
854	849	850	851	85 <i>2</i>	853
Column	ns 301	through 306			
860	855	856	857	858	859
Column	ns 307	through 312			
866	861	862	863	864	865
Column	ns 313	through 318			
872	867	868	869	870	871
Column	ns 319	through 324			
878	873	874	875	876	877
Column	ns 325	through 330			
884	879	880	881	882	883

Columns 331	through 336			
885 890	886	887	888	889
Columns 337	through 342			
891 896	892	893	894	895
Columns 343	through 348			
897 902	898	899	900	901
Columns 349	through 354			
903 908	904	905	906	907
Columns 355	through 360			
909 914	910	911	912	913
Columns 361	through 366			
915 920	916	917	918	919
Columns 367	through 372			
921 926	922	923	924	925
Columns 373	through 378			
927 932	928	929	930	931
Columns 379	through 384			
933 938	934	935	936	937
Columns 385	through 390			
939 944	940	941	942	943
Columns 391	through 396			
945 950	946	947	948	949

Columns 39	77 through 402	•		
951 956	952	953	954	955
Columns 40	3 through 408			
957 962	958	959	960	961
Columns 40	9 through 414			
963 968	964	965	966	967
Columns 41	5 through 420			
96 <i>9</i> 97 <i>4</i>	970	971	972	973
Columns 42	21 through 426			
975 980	976	977	978	979
Columns 42	77 through 432	•		
981 986	982	983	984	985
Columns 43	33 through 438			
987 992	988	989	990	991
Columns 43	39 through 444			
993 998	994	995	996	997
Columns 44	5 through 450			
999 1004	1000	1001	1002	1003
Columns 45	1 through 456			
1005 1010	1006	1007	1008	1009
Columns 45	7 through 462	•		

1011 1016	1012		1013		1014		1015	
Columns 463 throu	gh 468							
1017	1018		1019		1020		1021	
1022								
Columns 469 throu	gh 470							
1023	1024							
Columns 1 through	13							
1 2 3 12 13	4	5	6	7	8	9	10	11
Columns 14 throug	h 26							
14 15 16 25 26	17	18	19	20	21	22	23	24
Columns 27 throug	h 39							
27 28 29 38 39	30	31	32	33	34	35	36	37
Columns 40 throug	h 52							
40 41 42 51 52	43	44	45	46	47	48	49	50
Columns 53 throug	h 65							
53 54 55 64 65	56	57	58	59	60	61	62	63
Columns 66 throug	h 78							
66 67 68 77 78	69	70	71	72	73	74	75	76
Columns 79 throug	h 91							
79 80 81 90 91	82	83	84	85	86	87	88	89
Columns 92 throug	h 104							
92 93 94 103 104	95	96	97	98	99	100	101	102
Columns 105 throu	gh 117							

105 106 116 117	107 108	109	110	111	112	113	114	115
Columns 118	through 130							
118 119 129 130	120 121	122	123	124	125	126	127	128
Columns 131	through 143							
131 132 142 143	133 134	135	136	137	138	139	140	141
Columns 144	through 156							
144 145 155 156	146 147	148	149	150	151	152	153	154
Columns 157	through 169							
157 158 168 169	159 160	161	162	163	164	165	166	167
Columns 170	through 182							
170 171 181 182	172 173	174	175	176	177	178	179	180
Columns 183	through 195							
183 184 194 195	185 186	187	188	189	190	191	192	193
Columns 196	through 208							
196 197 207 208	198 199	200	201	202	203	204	205	206
Columns 209	through 221							
209 210 220 221	211 212	213	214	215	216	217	218	219
Columns 222	through 234							
222 223 233 234	224 225	226	227	228	229	230	231	232
Columns 235	through 247							
235 236 246 247	237 238	239	240	241	242	243	244	245
Columns 248	through 260							

248 249 259 260	250 251	252	253	254	255	256	257	258
Columns 261	through 273							
261 262 272 273	263 264	265	266	267	268	269	270	271
Columns 274	through 286							
274 275 285 286	276 277	278	279	280	281	282	283	284
Columns 287	through 299							
287 288 298 299	289 290	291	292	293	294	295	296	297
Columns 300	through 312							
300 301 311 312	302 303	304	305	306	307	308	309	310
Columns 313	through 325							
313 314 324 325	315 316	317	318	319	320	321	322	323
Columns 326	through 338							
326 327 337 338	328 329	330	331	332	333	334	335	336
Columns 339	through 351							
339 340 350 351	341 342	343	344	345	346	347	348	349
Columns 352	through 364							
352 353 363 364	354 355	356	357	358	359	360	361	362
Columns 365	through 377							
365 366 376 377	367 368	369	370	371	372	373	374	375
Columns 378	through 390							
378 379 389 390	380 381	382	383	384	385	386	387	388

Columns 391	through 403							
391 392 402 403	393 394	395	396	397	398	399	400	401
Columns 404	through 416							
404 405 415 416	406 407	408	409	410	411	412	413	414
Columns 417	through 429							
417 418 428 429	419 420	421	422	423	424	425	426	427
Columns 430	through 442							
430 431 441 442	432 433	434	435	436	437	438	439	440
Columns 443	through 455							
443 444 454 455	445 446	447	448	449	450	451	452	453
Columns 456	through 468							
456 457 467 468	458 459	460	461	462	463	464	465	466
Columns 469	through 481							
469 470 480 489	471 472	473	474	475	476	477	478	479
Columns 482	through 494							
490 491 501 502	492 493	494	495	496	497	498	499	500
Columns 495	through 507							
503 504 522 523	505 506	507	508	509	510	511	512	521
Columns 508	through 520							
524 525 535 554	526 527	528	529	530	531	532	533	534
Columns 521	through 533							
555 556 566 567	557 558	559	560	561	562	563	564	565

Column	s 534 throug	h 546							
587 598 5	588 589 99	590	591	592	593	594	595	596	597
Column	s 547 throug	h 554							
624	625 626	627	628	629	630	631			
Column	s 1 through	6							
486	481	482		483		484		485	
Column	s 7 through	12							
516	487	488		513		514		515	
Column	s 13 through	18							
537	517	518		519		520		536	
Column	s 19 through	24							
543	538	539		540		541		542	
Column	s 25 through	30							
549	544	545		546		547		548	
Column	s 31 through	36							
569	550	551		552		553		568	
Column	s 37 through	1 42							
575	570	571		572		573		574	
Column	s 43 through	48							
581	576	577		578		579		580	
Column	s 49 through	1 54							
600	582	583		584		585		586	

Columns 55	through	60			
601 606		602	603	604	605
Columns 61	through	66			
607 612		608	609	610	611
Columns 67	through	72			
613 618		614	615	616	617
Columns 73	through	78			
619 632		620	621	622	623
Columns 79	through	84			
633 638		634	635	636	637
Columns 85	through	90			
639 644		640	641	642	643
Columns 91	through	96			
645 650		646	647	648	649
Columns 97	through	102			
651 656		652	653	654	655
Columns 103	3 througl	n 108			
657 662		658	659	660	661
Columns 109	9 througl	114			
663 668		664	665	666	667
Columns 11	5 through	120			

674	669	670	671	672	673
Column	ns 121 t	chrough 126			
680	675	676	677	678	679
Column	ns 127 t	chrough 132			
686	681	682	683	684	685
Column	ns 133 t	chrough 138			
692	687	688	689	690	691
Column	ıs 139 t	chrough 144			
698	693	694	695	696	697
Column	ıs 145 t	chrough 150			
704	699	700	701	702	703
Column	ns 151 t	chrough 156			
710	705	706	707	708	709
Column	ns 157 t	through 162			
716	711	712	713	714	715
Column	ns 163 t	chrough 168			
722	717	718	719	720	721
Column	ns 169 t	chrough 174			
728	723	724	725	726	727
Column	ıs 175 t	chrough 180			
734	729	730	731	732	733
Column	ns 181 t	chrough 186			

740	735	736	737	738	739
Column	s 187 thi	cough 192			
746	741	742	743	744	745
Column	s 193 thi	cough 198			
752	747	748	749	750	751
Column	s 199 thi	cough 204			
758	753	754	755	756	757
Column	s 205 thi	cough 210			
764	759	760	761	762	763
Column	s 211 thi	cough 216			
770	765	766	767	768	769
Column	s 217 thi	cough 222			
776	771	772	773	774	775
Column	s 223 thi	cough 228			
782	777	778	779	780	781
Column	s 229 thi	cough 234			
788	783	784	785	786	787
Column	s 235 thi	cough 240			
794	789	790	791	792	793
Column	s 241 thi	cough 246			
800	795	796	797	798	799

Columns 247	through 252			
801 806	802	803	804	805
Columns 253	through 258			
807 812	808	809	810	811
Columns 259	through 264			
813 818	814	815	816	817
Columns 265	through 270			
819 824	820	821	822	823
Columns 271	through 276			
825 830	826	827	828	829
Columns 277	through 282			
831 836	832	833	834	835
Columns 283	through 288			
837 842	838	839	840	841
Columns 289	through 294			
843 848	844	845	846	847
Columns 295	through 300			
849 854	850	851	852	853
Columns 301	through 306			
855 860	856	857	858	859
Columns 307	through 312			
861 866	862	863	864	865

Columns 313	through 318			
867 872	868	869	870	871
Columns 319	through 324			
873 878	874	875	876	877
Columns 325	through 330			
87 <i>9</i> 884	880	881	882	883
Columns 331	through 336			
885 890	886	887	888	889
Columns 337	through 342			
891 896	892	893	894	895
Columns 343	through 348			
897 902	898	899	900	901
Columns 349	through 354			
903 908	904	905	906	907
Columns 355	through 360			
909 914	910	911	912	913
Columns 361	through 366			
915 920	916	917	918	919
Columns 367	through 372			
921 926	922	923	924	925
Columns 373	through 378			

932	927	928	929	930	931
Colum	ns 379 thro	ıgh 384			
	933	934	935	936	937
938					
Column	ns 385 throi	ıgh 390			
944	939	940	941	942	943
Column	ns 391 thro	ıgh 396			
950	945	946	947	948	949
Colum	ns 397 throi	ıgh 402			
956	951	952	953	954	955
Column	ns 403 thro	ıgh 408			
962	957	958	959	960	961
Column	ns 409 thro	ıgh 414			
968	963	964	965	966	967
Column	ns 415 thro	ıgh 420			
974	969	970	971	972	973
Column	ns 421 thro	ıgh 426			
980	975	976	977	978	979
Column	ns 427 thro	ıgh 432			
986	981	982	983	984	985
Column	ns 433 thro	ıgh 438			
992	987	988	989	990	991
Column	ns 439 thro	ıgh 444			

993 994 998	1 99	5 996	997	
Columns 445 through 45	50			
999 1000 1004	100	1 1002	1003	
Columns 451 through 45	56			
1005 1006 1010	100	7 1008	1009	
Columns 457 through 46	52			
1011 1012 1016	? 101	3 1014	1015	
Columns 463 through 46	58			
1017 1018 1022	3 101	9 1020	1021	
Columns 469 through 47	70			
1023 1024	1			
Columns 1 through 13				
1 2 3 4 12 13	1 5	6 7 8	9 10	11
Columns 14 through 26				
14 15 16 17 25 26	' 18 1	9 20 21	22 23	24
Columns 27 through 39				
27 28 29 30 38 39) 31 3	2 33 34	35 36	37
Columns 40 through 52				
40 41 42 43 51 52	3 44 4	5 46 47	48 49	50
Columns 53 through 65				
53 54 55 56 64 65	5 57 5	8 59 60	61 62	63
Columns 66 through 78				

66 67 77 78	68 69	70	71	72	73	74	75	76			
Columns 79 t	hrough 91										
79 80 90 91	81 82	83	84	85	86	87	88	89			
Columns 92 t	hrough 104										
92 93 103 104	94 95	96	97	98	99	100	101	102			
Columns 105 through 117											
105 106 116 117	107 108	109	110	111	112	113	114	115			
Columns 118	through 130										
118 119 129 130	120 121	122	123	124	125	126	127	128			
Columns 131	through 143										
131 132 142 143	133 134	135	136	137	138	139	140	141			
Columns 144	through 156										
144 145 155 156	146 147	148	149	150	151	152	153	154			
Columns 157	through 169										
157 158 168 169	159 160	161	162	163	164	165	166	167			
Columns 170	through 182										
170 171 181 182	172 173	174	175	176	177	178	179	180			
Columns 183	through 195										
183 184 194 195	185 186	187	188	189	190	191	192	193			
Columns 196	through 208										
196 197 207 208	198 199	200	201	202	203	204	205	206			

Columns 209	through 221							
209 210 220 221	211 212	213	214	215	216	217	218	219
Columns 222	through 234							
222 223 233 234	224 225	226	227	228	229	230	231	232
Columns 235	through 247							
235 236 246 247	237 238	239	240	241	242	243	244	245
Columns 248	through 260							
248 249 259 260	250 251	252	253	254	255	256	257	258
Columns 261	through 273							
261 262 272 273	263 264	265	266	267	268	269	270	271
Columns 274	through 286							
274 275 285 286	276 277	278	279	280	281	282	283	284
Columns 287	through 299							
287 288 298 299	289 290	291	292	293	294	295	296	297
Columns 300	through 312							
300 301 311 312	302 303	304	305	306	307	308	309	310
Columns 313	through 325							
313 314 324 325	315 316	317	318	319	320	321	322	323
Columns 326	through 338							
326 327 337 338	328 329	330	331	332	333	334	335	336
Columns 339	through 351							
339 340 350 351	341 342	343	344	345	346	347	348	349

Columns 352	through 364										
352 353 363 364	354 355	356	357	358	359	360	361	362			
Columns 365	365 through 377										
365 366 376 377	367 368	369	370	371	372	373	374	375			
Columns 378	through 390										
378 379 389 390	380 381	382	383	384	385	386	387	388			
Columns 391 through 403											
391 392 402 403	393 394	395	396	397	398	399	400	401			
Columns 404 through 416											
404 405 415 416	406 407	408	409	410	411	412	413	414			
Columns 417	117 through 429										
417 418 428 429	419 420	421	422	423	424	425	426	427			
Columns 430	through 442										
430 431 441 442	432 433	434	435	436	437	438	439	440			
Columns 443	through 455										
443 444 454 455	445 446	447	448	449	450	451	452	453			
Columns 456 through 468											
456 457 467 468	458 459	460	461	462	463	464	465	466			
Columns 469	through 481										
469 470 480 489	471 472	473	474	475	476	477	478	479			
Columns 482	through 494										

	491 02	492	493	494	495	496	497	498	499	500
Columns	s 495 t	hrougl	1 507							
	504 23	505	506	507	508	509	510	511	512	521
Columns 508 through 520										
	525 54	526	527	528	529	530	531	532	533	534
Columns	s 521 t	hrougl	1 533							
	556 67	557	558	559	560	561	562	563	564	565
Columns	s 534 t	hrougl	1 546							
587	s 534 t 588 99			591	592	593	594	595	596	597
587	588 99	589	590	591	592	593	594	595	596	597

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