

1 October, 1990

To: Tim Straight

From: Alan Riddiford

Subject: SSC Manufacturing Errors; Preliminary Results

The top half of the coil was moved 0.001" to the right in 3 ways (outer; inner; both).

The first 3 tables show the results on the harmonic components:

Quadrupole (normalized)

skew	normal	
0.000	-0.034	B outer
0.000	0.176	D inner
<u>0.000</u>	<u>0.142</u>	C both

The final 3 tables give the conductor corners used (adjusted for counter-clockwise integration).

cc: Paul Mantsch

NSEGS = 45 SEGMENTS; DIPOLE SYMMETRY
 RIRON = 0.7820 CM
 RIRON = 2.6701 INCHES
 RREF = 1.0000 CM
 RREF = 0.3937 INCHES
 ROFF = 0.0000 CM
 ROFF = 0.0000 INCHES
 CURRENT = 5.0000 KAMPS/TURN
 SEGMENT AREA = 0.0314 SQINS
 CDENSE = 159.3078 KAMPS/SQIN
 FACTOR = 2.4693 KGAUSS*INCH
 SEGMENT AREA = 0.0250 SQINS
 CDENSE = 199.7980 KAMPS/SQIN
 FACTOR = 3.0969 KGAUSS*RREF

1	-0.004652712	52.152308233	-0.892	10000.000
2	0.000001811	-0.000177197	0.000	-0.034
3	-0.000582045	0.000188046	-0.112	0.036
4	0.000000052	0.000077821	0.000	0.015
5	-0.000008357	0.000012703	-0.002	0.002
6	0.000000001	0.000000488	0.000	0.000
7	-0.000000111	-0.000021241	0.000	-0.004

outer

	RREF						
	units	cm	BOTH	AIR	IRON	RATIO	DIFF
X =	0.000	0.000	52.152308233	39.493059035	12.659249198	10000.000	0.000
X =	0.100	0.100	52.152292473	39.492829527	12.659462945	9999.997	-0.003
X =	0.200	0.200	52.152280957	39.492273559	12.660007398	9999.995	-0.005
X =	0.300	0.300	52.152274188	39.491392253	12.660881935	9999.993	-0.007
X =	0.400	0.400	52.152272685	39.490187154	12.662085511	9999.993	-0.007
X =	0.500	0.500	52.152270851	39.488660191	12.663616659	9999.994	-0.006
X =	0.600	0.600	52.152287114	39.486813624	12.665473489	9999.996	-0.004
X =	0.700	0.700	52.152303663	39.484649977	12.667653686	9999.999	-0.001
X =	0.800	0.800	52.152326464	39.482171955	12.670154509	10000.003	0.003
X =	0.900	0.900	52.152355138	39.479382344	12.672972795	10000.009	0.009
X =	1.000	1.000	52.152388852	39.476283900	12.676104952	10000.015	0.015
X =	1.100	1.100	52.152426185	39.472879222	12.679546963	10000.023	0.023
X =	1.200	1.200	52.152464986	39.469170603	12.683294383	10000.030	0.030
X =	1.300	1.300	52.152502212	39.465159875	12.687342337	10000.037	0.037
X =	1.400	1.400	52.152533754	39.460848234	12.691885521	10000.043	0.043
X =	1.500	1.500	52.152554249	39.456236049	12.696318200	10000.047	0.047
X =	1.600	1.600	52.152556866	39.451322660	12.701234206	10000.048	0.048
X =	1.700	1.700	52.152533095	39.446106158	12.706426937	10000.043	0.043
X =	1.800	1.800	52.152472504	39.440583149	12.711889355	10000.031	0.031
X =	1.900	1.900	52.152362488	39.434748502	12.717613986	10000.010	0.010
X =	2.000	2.000	52.152188005	39.428595088	12.723592917	9999.977	-0.023
X =	2.100	2.100	52.151931289	39.422113495	12.729817794	9999.928	-0.072
X =	2.200	2.200	52.151571556	39.415291738	12.736279819	9999.859	-0.141
X =	2.300	2.300	52.151084692	39.408114941	12.742969751	9999.785	-0.235
X =	2.400	2.400	52.150442918	39.400565015	12.749877903	9999.642	-0.358
X =	2.500	2.500	52.149618058	39.392651776	12.756966283	9999.484	-0.516

NSEGS = 45 SEGMENTS; DIPOLE SYMMETRY

RIRON = 8.7820 CM
 RIRON = 2.6701 INCHES
 RREF = 1.0000 CM
 RREF = 0.3937 INCHES
 ROFF = 0.0000 CM
 ROFF = 0.0000 INCHES
 CURRENT = 5.0000 KAMPS/TURN
 SEGMENT AREA = 0.0314 SQINS
 CDENSE = 159.3078 KAMPS/SQIN
 FACTOR = 2.4693 KGAUSS*INCH
 SEGMENT AREA = 0.0250 SQINS
 CDENSE = 199.7980 KAMPS/SQIN
 FACTOR = 3.0969 KGAUSS*RREF

1	-0.008949667	52.152308503	-1.333	10000.000
2	0.000001243	0.000917827	0.000	0.176
3	-0.000469248	0.000188604	-0.090	0.036
4	0.000000523	-0.000076953	0.000	-0.015
5	-0.000102493	0.000012708	-0.020	0.002
6	0.000000068	-0.000000357	0.000	0.000
7	-0.000008868	-0.000021228	-0.002	-0.004

inner

	RREF	units	cm	BOTH	AIR	IRON	RATIO	DIFF
X =	0.000	0.000		52.152308503	39.493057305	12.659249198	10000.000	0.000
X =	0.100	0.100		52.152400098	39.492963832	12.659436264	10000.018	0.018
X =	0.200	0.200		52.152497018	39.492542995	12.659954021	10000.037	0.037
X =	0.300	0.300		52.152596835	39.491795003	12.660801832	10000.056	0.056
X =	0.400	0.400		52.152699120	39.490720481	12.661978639	10000.075	0.075
X =	0.500	0.500		52.152803400	39.489320439	12.663482961	10000.095	0.095
X =	0.600	0.600		52.152909104	39.487598211	12.665312893	10000.116	0.116
X =	0.700	0.700		52.153015497	39.485549392	12.667466105	10000.136	0.136
X =	0.800	0.800		52.153121595	39.483181750	12.669939846	10000.156	0.156
X =	0.900	0.900		52.153228064	39.480495128	12.672730936	10000.176	0.176
X =	1.000	1.000		52.153327105	39.477491333	12.675835771	10000.196	0.196
X =	1.100	1.100		52.153422324	39.474172001	12.679250323	10000.214	0.214
X =	1.200	1.200		52.153508588	39.470538455	12.682970133	10000.230	0.230
X =	1.300	1.300		52.153581860	39.466591548	12.686990314	10000.245	0.245
X =	1.400	1.400		52.153637028	39.462331477	12.691305552	10000.255	0.255
X =	1.500	1.500		52.153687709	39.457757610	12.695910099	10000.261	0.261
X =	1.600	1.600		52.153686045	39.452868267	12.700797778	10000.261	0.261
X =	1.700	1.700		52.153622479	39.447660503	12.705961977	10000.252	0.252
X =	1.800	1.800		52.153525521	39.442129873	12.711395648	10000.234	0.234
X =	1.900	1.900		52.153361489	39.436270180	12.717091309	10000.202	0.202
X =	2.000	2.000		52.153114250	39.430073211	12.723041039	10000.155	0.155
X =	2.100	2.100		52.152764928	39.423528452	12.729236476	10000.088	0.088
X =	2.200	2.200		52.152291612	39.416622796	12.735668816	9999.997	-0.003
X =	2.300	2.300		52.151669038	39.409340224	12.742328814	9999.878	-0.122
X =	2.400	2.400		52.150888264	39.401661488	12.749206776	9999.724	-0.276
X =	2.500	2.500		52.149860679	39.393595855	12.756264824	9999.531	-0.469

NSEGS = 46 SEGMENTS; DIPOLE SYMMETRY

RIRON = 6.7820 CM
 RIRON = 2.6701 INCHES
 RREF = 1.0000 CM
 RREF = 0.3937 INCHES
 ROFF = 0.0000 CM
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 CURRENT = 5.0000 KAMPS/TURN
 SEGMENT AREA = 0.0314 SQINS
 CDENSE = 159.3078 KAMPS/SQIN
 FACTOR = 2.4693 KGAUSS*INCH
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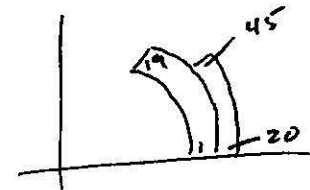
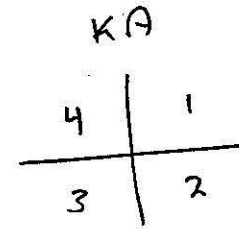
1	-0.011602379	52.152307342	-2.225	10000.000
2	0.000002855	0.000740630	0.001	0.142
3	-0.001051293	0.000188358	-0.202	0.036
4	0.000000575	0.000000868	0.000	0.000
5	-0.000110650	0.000012705	-0.021	0.002
6	0.000000069	0.000000132	0.000	0.000
7	-0.000008979	-0.000021225	-0.002	-0.004

both

	RREF		BOTH	AIR	IRON	RATIO	DIFF
X =	units	cm					
X =	0.000	0.000	52.152307342	39.493058144	12.659249198	10000.000	0.000
X =	0.100	0.100	52.152383290	39.492898730	12.659484560	10000.015	0.015
X =	0.200	0.200	52.152463028	39.492412402	12.660050628	10000.030	0.030
X =	0.300	0.300	52.152546594	39.491599822	12.660946772	10000.046	0.046
X =	0.400	0.400	52.152634028	39.490462072	12.662171954	10000.063	0.063
X =	0.500	0.500	52.152725321	39.489000620	12.663724701	10000.080	0.080
X =	0.600	0.600	52.152820382	39.487217260	12.665603121	10000.098	0.098
X =	0.700	0.700	52.152918950	39.485114052	12.667804898	10000.117	0.117
X =	0.800	0.800	52.153020521	39.482693230	12.670327290	10000.137	0.137
X =	0.900	0.900	52.153124243	39.479957112	12.673167132	10000.157	0.157
X =	1.000	1.000	52.153228807	39.476907978	12.676320829	10000.177	0.177
X =	1.100	1.100	52.153333213	39.473547949	12.679784364	10000.197	0.197
X =	1.200	1.200	52.153432128	39.469878837	12.683553289	10000.216	0.216
X =	1.300	1.300	52.153524717	39.465901988	12.687622729	10000.233	0.233
X =	1.400	1.400	52.153605486	39.461618108	12.691987377	10000.249	0.249
X =	1.500	1.500	52.153688572	39.457027075	12.696641498	10000.261	0.261
X =	1.600	1.600	52.153706647	39.452127727	12.701578920	10000.268	0.268
X =	1.700	1.700	52.153710693	39.446917652	12.706793040	10000.269	0.269
X =	1.800	1.800	52.153669787	39.441392946	12.712276821	10000.261	0.261
X =	1.900	1.900	52.153570749	39.435547963	12.718022785	10000.242	0.242
X =	2.000	2.000	52.153398072	39.429375054	12.724023018	10000.209	0.209
X =	2.100	2.100	52.153133445	39.422864281	12.730269164	10000.158	0.158
X =	2.200	2.200	52.152755548	39.416003123	12.736752425	10000.088	0.088
X =	2.300	2.300	52.152239725	39.408776167	12.743463558	9999.987	-0.013
X =	2.400	2.400	52.151557653	39.401164778	12.750392875	9999.858	-0.144
X =	2.500	2.500	52.150680824	39.393178524	12.757502300	9999.688	-0.312

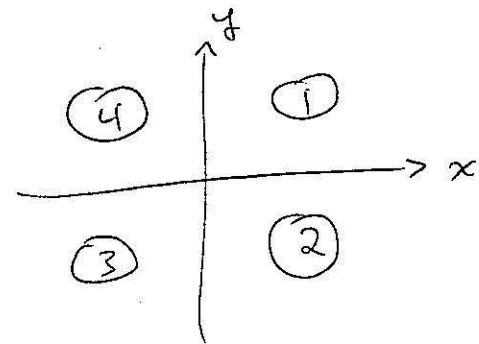
Top half of the outer coil moved .001" to the right

KA, SEG =	1	1	0.9841	0.0040	1.4745	0.0040	1.4738	0.0732	0.9835	0.0628
KA, SEG =	2	1	0.9841	-0.0040	1.4745	-0.0040	1.4738	-0.0732	0.9835	-0.0628
KA, SEG =	3	1	-0.9841	-0.0040	-1.4745	-0.0040	-1.4738	-0.0732	-0.9835	-0.0628
KA, SEG =	4	1	-0.9841	0.0040	-1.4745	0.0040	-1.4738	0.0732	-0.9835	0.0628
KA, SEG =	1	2	0.9815	0.0627	1.4718	0.0732	1.4696	0.1424	0.9796	0.1214
KA, SEG =	2	2	0.9815	-0.0627	1.4718	-0.0732	1.4696	-0.1424	0.9796	-0.1214
KA, SEG =	3	2	-0.9815	-0.0627	-1.4718	-0.0732	-1.4696	-0.1424	-0.9796	-0.1214
KA, SEG =	4	2	-0.9815	0.0627	-1.4718	0.0732	-1.4696	0.1424	-0.9796	0.1214
KA, SEG =	1	3	0.9759	0.1213	1.4658	0.1422	1.4621	0.2114	0.9727	0.1800
KA, SEG =	2	3	0.9759	-0.1213	1.4658	-0.1422	1.4621	-0.2114	0.9727	-0.1800
KA, SEG =	3	3	-0.9759	-0.1213	-1.4658	-0.1422	-1.4621	-0.2114	-0.9727	-0.1800
KA, SEG =	4	3	-0.9759	0.1213	-1.4658	0.1422	-1.4621	0.2114	-0.9727	0.1800
KA, SEG =	1	4	0.9672	0.1796	1.4566	0.2110	1.4514	0.2801	0.9628	0.2382
KA, SEG =	2	4	0.9672	-0.1796	1.4566	-0.2110	1.4514	-0.2801	0.9628	-0.2382
KA, SEG =	3	4	-0.9672	-0.1796	-1.4566	-0.2110	-1.4514	-0.2801	-0.9628	-0.2382
KA, SEG =	4	4	-0.9672	0.1796	-1.4566	0.2110	-1.4514	0.2801	-0.9628	0.2382
KA, SEG =	1	5	0.9555	0.2376	1.4441	0.2794	1.4375	0.3484	0.9498	0.2961
KA, SEG =	2	5	0.9555	-0.2376	1.4441	-0.2794	1.4375	-0.3484	0.9498	-0.2961
KA, SEG =	3	5	-0.9555	-0.2376	-1.4441	-0.2794	-1.4375	-0.3484	-0.9498	-0.2961
KA, SEG =	4	5	-0.9555	0.2376	-1.4441	0.2794	-1.4375	0.3484	-0.9498	0.2961
KA, SEG =	1	6	0.9407	0.2951	1.4284	0.3474	1.4202	0.4161	0.9338	0.3534
KA, SEG =	2	6	0.9407	-0.2951	1.4284	-0.3474	1.4202	-0.4161	0.9338	-0.3534
KA, SEG =	3	6	-0.9407	-0.2951	-1.4284	-0.3474	-1.4202	-0.4161	-0.9338	-0.3534
KA, SEG =	4	6	-0.9407	0.2951	-1.4284	0.3474	-1.4202	0.4161	-0.9338	0.3534
KA, SEG =	1	7	0.9238	0.3729	1.3303	0.6473	1.2909	0.7043	0.8904	0.4212
KA, SEG =	2	7	0.9238	-0.3729	1.3303	-0.6473	1.2909	-0.7043	0.8904	-0.4212
KA, SEG =	3	7	-0.9238	-0.3729	-1.3303	-0.6473	-1.2909	-0.7043	-0.8904	-0.4212
KA, SEG =	4	7	-0.9238	0.3729	-1.3303	0.6473	-1.2909	0.7043	-0.8904	0.4212
KA, SEG =	1	8	0.8970	0.4259	1.2975	0.7090	1.2569	0.7651	0.8626	0.4735
KA, SEG =	2	8	0.8970	-0.4259	1.2975	-0.7090	1.2569	-0.7651	0.8626	-0.4735
KA, SEG =	3	8	-0.8970	-0.4259	-1.2975	-0.7090	-1.2569	-0.7651	-0.8626	-0.4735
KA, SEG =	4	8	-0.8970	0.4259	-1.2975	0.7090	-1.2569	0.7651	-0.8626	0.4735
KA, SEG =	1	9	0.8676	0.4772	1.2620	0.7688	1.2202	0.8240	0.8322	0.5241
KA, SEG =	2	9	0.8676	-0.4772	1.2620	-0.7688	1.2202	-0.8240	0.8322	-0.5241
KA, SEG =	3	9	-0.8676	-0.4772	-1.2620	-0.7688	-1.2202	-0.8240	-0.8322	-0.5241
KA, SEG =	4	9	-0.8676	0.4772	-1.2620	0.7688	-1.2202	0.8240	-0.8322	0.5241
KA, SEG =	1	10	0.8357	0.5268	1.2237	0.8267	1.1808	0.8811	0.7993	0.5729
KA, SEG =	2	10	0.8357	-0.5268	1.2237	-0.8267	1.1808	-0.8811	0.7993	-0.5729
KA, SEG =	3	10	-0.8357	-0.5268	-1.2237	-0.8267	-1.1808	-0.8811	-0.7993	-0.5729
KA, SEG =	4	10	-0.8357	0.5268	-1.2237	0.8267	-1.1808	0.8811	-0.7993	0.5729
KA, SEG =	1	11	0.8013	0.5746	1.1829	0.8827	1.1388	0.9361	0.7639	0.6199
KA, SEG =	2	11	0.8013	-0.5746	1.1829	-0.8827	1.1388	-0.9361	0.7639	-0.6199
KA, SEG =	3	11	-0.8013	-0.5746	-1.1829	-0.8827	-1.1388	-0.9361	-0.7639	-0.6199
KA, SEG =	4	11	-0.8013	0.5746	-1.1829	0.8827	-1.1388	0.9361	-0.7639	0.6199
KA, SEG =	1	12	0.7646	0.6205	1.1395	0.9367	1.0943	0.9891	0.7262	0.6650
KA, SEG =	2	12	0.7646	-0.6205	1.1395	-0.9367	1.0943	-0.9891	0.7262	-0.6650
KA, SEG =	3	12	-0.7646	-0.6205	-1.1395	-0.9367	-1.0943	-0.9891	-0.7262	-0.6650
KA, SEG =	4	12	-0.7646	0.6205	-1.1395	0.9367	-1.0943	0.9891	-0.7262	0.6650
KA, SEG =	1	13	0.7256	0.6644	1.0936	0.9886	1.0473	1.0400	0.6863	0.7081
KA, SEG =	2	13	0.7256	-0.6644	1.0936	-0.9886	1.0473	-1.0400	0.6863	-0.7081
KA, SEG =	3	13	-0.7256	-0.6644	-1.0936	-0.9886	-1.0473	-1.0400	-0.6863	-0.7081
KA, SEG =	4	13	-0.7256	0.6644	-1.0936	0.9886	-1.0473	1.0400	-0.6863	0.7081
KA, SEG =	1	14	0.6286	0.7597	0.9190	1.1549	0.8628	1.1953	0.5809	0.7940
KA, SEG =	2	14	0.6286	-0.7597	0.9190	-1.1549	0.8628	-1.1953	0.5809	-0.7940
KA, SEG =	3	14	-0.6286	-0.7597	-0.9190	-1.1549	-0.8628	-1.1953	-0.5809	-0.7940
KA, SEG =	4	14	-0.6286	0.7597	-0.9190	1.1549	0.8628	1.1953	-0.5809	0.7940
KA, SEG =	1	15	0.5814	0.7947	0.8633	1.1960	0.8063	1.2352	0.5330	0.8280
KA, SEG =	2	15	0.5814	-0.7947	0.8633	-1.1960	0.8063	-1.2352	0.5330	-0.8280
KA, SEG =	3	15	-0.5814	-0.7947	-0.8633	-1.1960	-0.8063	-1.2352	-0.5330	-0.8280
KA, SEG =	4	15	-0.5814	0.7947	-0.8633	1.1960	0.8063	1.2352	-0.5330	0.8280
KA, SEG =	1	16	0.5325	0.8272	0.8058	1.2345	0.7479	1.2724	0.4833	0.8595
KA, SEG =	2	16	0.5325	-0.8272	0.8058	-1.2345	0.7479	-1.2724	0.4833	-0.8595
KA, SEG =	3	16	-0.5325	-0.8272	-0.8058	-1.2345	-0.7479	-1.2724	-0.4833	-0.8595
KA, SEG =	4	16	-0.5325	0.8272	-0.8058	1.2345	0.7479	1.2724	-0.4833	0.8595



KA, SEG =	1 17	0.4144	0.8947	0.5947	1.3508	0.5300	1.3758	0.3596	0.9157
KA, SEG =	2 17	0.4144	-0.8947	0.5947	-1.3508	0.5300	-1.3758	0.3596	-0.9157
KA, SEG =	3 17	-0.4144	-0.8947	-0.5947	-1.3508	-0.5300	-1.3758	-0.3596	-0.9157
KA, SEG =	4 17	-0.4144	0.8947	-0.5947	1.3508	-0.5300	1.3758	-0.3596	0.9157
KA, SEG =	1 18	0.3599	0.9166	0.5303	1.3764	0.4651	1.3998	0.3045	0.9364
KA, SEG =	2 18	0.3599	-0.9166	0.5303	-1.3764	0.4651	-1.3998	0.3045	-0.9364
KA, SEG =	3 18	-0.3599	-0.9166	-0.5303	-1.3764	-0.4651	-1.3998	-0.3045	-0.9364
KA, SEG =	4 18	-0.3599	0.9166	-0.5303	1.3764	-0.4651	1.3998	-0.3045	0.9364
KA, SEG =	1 19	0.3043	0.9358	0.4648	1.3990	0.3992	1.4209	0.2485	0.9542
KA, SEG =	2 19	0.3043	-0.9358	0.4648	-1.3990	0.3992	-1.4209	0.2485	-0.9542
KA, SEG =	3 19	-0.3043	-0.9358	-0.4648	-1.3990	-0.3992	-1.4209	-0.2485	-0.9542
KA, SEG =	4 19	-0.3043	0.9358	-0.4648	1.3990	-0.3992	1.4209	-0.2485	0.9542
KA, SEG =	1 20	1.4846	0.0040	1.9582	0.0040	1.9577	0.0609	1.4842	0.0527
KA, SEG =	2 20	1.4836	-0.0040	1.9572	-0.0040	1.9567	-0.0609	1.4832	-0.0527
KA, SEG =	3 20	-1.4836	-0.0040	-1.9572	-0.0040	-1.9567	-0.0609	-1.4832	-0.0527
KA, SEG =	4 20	-1.4828	0.0040	-1.9582	0.0040	-1.9557	0.0609	-1.4822	0.0527
KA, SEG =	1 21	1.4834	0.0527	1.9569	0.0609	1.9555	0.1178	1.4821	0.1013
KA, SEG =	2 21	1.4824	-0.0527	1.9559	-0.0609	1.9545	-0.1178	1.4811	-0.1013
KA, SEG =	3 21	-1.4824	-0.0527	-1.9559	-0.0609	-1.9545	-0.1178	-1.4811	-0.1013
KA, SEG =	4 21	-1.4814	0.0527	-1.9549	0.0609	-1.9535	0.1178	-1.4801	0.1013
KA, SEG =	1 22	1.4807	0.1013	1.9540	0.1177	1.9515	0.1748	1.4788	0.1499
KA, SEG =	2 22	1.4797	-0.1013	1.9530	-0.1177	1.9505	-0.1748	1.4778	-0.1499
KA, SEG =	3 22	-1.4797	-0.1013	-1.9530	-0.1177	-1.9505	-0.1748	-1.4778	-0.1499
KA, SEG =	4 22	-1.4787	0.1013	-1.9520	0.1177	-1.9495	0.1748	-1.4768	0.1499
KA, SEG =	1 23	1.4765	0.1498	1.9494	0.1745	1.9460	0.2313	1.4735	0.1984
KA, SEG =	2 23	1.4755	-0.1498	1.9484	-0.1745	1.9450	-0.2313	1.4725	-0.1984
KA, SEG =	3 23	-1.4755	-0.1498	-1.9484	-0.1745	-1.9450	-0.2313	-1.4725	-0.1984
KA, SEG =	4 23	-1.4745	0.1498	-1.9474	0.1745	-1.9440	0.2313	-1.4715	0.1984
KA, SEG =	1 24	1.4707	0.1982	1.9432	0.2311	1.9387	0.2878	1.4669	0.2468
KA, SEG =	2 24	1.4697	-0.1982	1.9422	-0.2311	1.9377	-0.2878	1.4659	-0.2468
KA, SEG =	3 24	-1.4697	-0.1982	-1.9422	-0.2311	-1.9377	-0.2878	-1.4659	-0.2468
KA, SEG =	4 24	-1.4687	0.1982	-1.9412	0.2311	-1.9367	0.2878	-1.4649	0.2468
KA, SEG =	1 25	1.4635	0.2465	1.9353	0.2875	1.9299	0.3442	1.4588	0.2949
KA, SEG =	2 25	1.4625	-0.2465	1.9343	-0.2875	1.9289	-0.3442	1.4578	-0.2949
KA, SEG =	3 25	-1.4625	-0.2465	-1.9343	-0.2875	-1.9289	-0.3442	-1.4578	-0.2949
KA, SEG =	4 25	-1.4615	0.2465	-1.9333	0.2875	-1.9279	0.3442	-1.4568	0.2949
KA, SEG =	1 26	1.4547	0.2945	1.9257	0.3438	1.9193	0.4003	1.4492	0.3429
KA, SEG =	2 26	1.4537	-0.2945	1.9247	-0.3438	1.9183	-0.4003	1.4482	-0.3429
KA, SEG =	3 26	-1.4537	-0.2945	-1.9247	-0.3438	-1.9183	-0.4003	-1.4482	-0.3429
KA, SEG =	4 26	-1.4527	0.2945	-1.9237	0.3438	-1.9173	0.4003	-1.4472	0.3429
KA, SEG =	1 27	1.4444	0.3423	1.9146	0.3997	1.9072	0.4562	1.4381	0.3906
KA, SEG =	2 27	1.4434	-0.3423	1.9136	-0.3997	1.9062	-0.4562	1.4371	-0.3906
KA, SEG =	3 27	-1.4434	-0.3423	-1.9136	-0.3997	-1.9062	-0.4562	-1.4371	-0.3906
KA, SEG =	4 27	-1.4424	0.3423	-1.9126	0.3997	-1.9052	0.4562	-1.4361	0.3906
KA, SEG =	1 28	1.4327	0.3898	1.9017	0.4554	1.8934	0.5117	1.4255	0.4380
KA, SEG =	2 28	1.4317	-0.3898	1.9007	-0.4554	1.8924	-0.5117	1.4245	-0.4380
KA, SEG =	3 28	-1.4317	-0.3898	-1.9007	-0.4554	-1.8924	-0.5117	-1.4245	-0.4380
KA, SEG =	4 28	-1.4307	0.3898	-1.8997	0.4554	-1.8914	0.5117	-1.4235	0.4380
KA, SEG =	1 29	1.4194	0.4370	1.8873	0.5107	1.8779	0.5669	1.4114	0.4850
KA, SEG =	2 29	1.4184	-0.4370	1.8863	-0.5107	1.8769	-0.5669	1.4104	-0.4850
KA, SEG =	3 29	-1.4184	-0.4370	-1.8863	-0.5107	-1.8769	-0.5669	-1.4104	-0.4850
KA, SEG =	4 29	-1.4174	0.4370	-1.8853	0.5107	-1.8759	0.5669	-1.4094	0.4850
KA, SEG =	1 30	1.4047	0.4838	1.8711	0.5657	1.8608	0.6217	1.3958	0.5317
KA, SEG =	2 30	1.4037	-0.4838	1.8701	-0.5657	1.8598	-0.6217	1.3948	-0.5317
KA, SEG =	3 30	-1.4037	-0.4838	-1.8701	-0.5657	-1.8598	-0.6217	-1.3948	-0.5317
KA, SEG =	4 30	-1.4027	0.4838	-1.8691	0.5657	-1.8588	0.6217	-1.3938	0.5317
KA, SEG =	1 31	1.3787	0.5530	1.8122	0.7438	1.7888	0.7957	1.3587	0.5974
KA, SEG =	2 31	1.3777	-0.5530	1.8112	-0.7438	1.7878	-0.7957	1.3577	-0.5974
KA, SEG =	3 31	-1.3777	-0.5530	-1.8112	-0.7438	-1.7878	-0.7957	-1.3577	-0.5974
KA, SEG =	4 31	-1.3767	0.5530	-1.8102	0.7438	-1.7868	0.7957	-1.3567	0.5974
KA, SEG =	1 32	1.3594	0.5977	1.7895	0.7960	1.7653	0.8475	1.3387	0.6417
KA, SEG =	2 32	1.3584	-0.5977	1.7885	-0.7960	1.7643	-0.8475	1.3377	-0.6417
KA, SEG =	3 32	-1.3584	-0.5977	-1.7885	-0.7960	-1.7643	-0.8475	-1.3377	-0.6417
KA, SEG =	4 32	-1.3574	0.5977	-1.7875	0.7960	-1.7633	0.8475	-1.3367	0.6417
KA, SEG =	1 33	1.3387	0.6418	1.7653	0.8475	1.7402	0.8985	1.3172	0.6854

KA symmetry labels



KA, SEG =	2 33	1.3377	-0.8418	1.7843	-0.8475	1.7392	-0.8985	1.3182	-0.6854
KA, SEG =	3 33	-1.3377	-0.8418	-1.7843	-0.8475	-1.7392	-0.8985	-1.3182	-0.6854
KA, SEG =	4 33	-1.3367	0.8418	-1.7633	0.8475	-1.7382	0.8985	-1.3152	0.6854
KA, SEG =	1 34	1.3187	0.6852	1.7397	0.8983	1.7136	0.9489	1.2944	0.7285
KA, SEG =	2 34	1.3157	-0.6852	1.7387	-0.8983	1.7126	-0.9489	1.2934	-0.7285
KA, SEG =	3 34	-1.3157	-0.6852	-1.7387	-0.8983	-1.7126	-0.9489	-1.2934	-0.7285
KA, SEG =	4 34	-1.3147	0.6852	-1.7377	0.8983	-1.7116	0.9489	-1.2924	0.7285
KA, SEG =	1 35	1.2933	0.7279	1.7125	0.9483	1.6858	0.9984	1.2703	0.7708
KA, SEG =	2 35	1.2923	-0.7279	1.7115	-0.9483	1.6846	-0.9984	1.2693	-0.7708
KA, SEG =	3 35	-1.2923	-0.7279	-1.7115	-0.9483	-1.6846	-0.9984	-1.2693	-0.7708
KA, SEG =	4 35	-1.2913	0.7279	-1.7105	0.9483	-1.6836	0.9984	-1.2683	0.7708
KA, SEG =	1 36	1.2686	0.7699	1.6839	0.9975	1.6561	1.0472	1.2448	0.8123
KA, SEG =	2 36	1.2676	-0.7699	1.6829	-0.9975	1.6551	-1.0472	1.2438	-0.8123
KA, SEG =	3 36	-1.2676	-0.7699	-1.6829	-0.9975	-1.6551	-1.0472	-1.2438	-0.8123
KA, SEG =	4 36	-1.2666	0.7699	-1.6819	0.9975	-1.6541	1.0472	-1.2428	0.8123
KA, SEG =	1 37	1.2426	0.8111	1.6539	1.0459	1.6252	1.0951	1.2181	0.8531
KA, SEG =	2 37	1.2416	-0.8111	1.6529	-1.0459	1.6242	-1.0951	1.2171	-0.8531
KA, SEG =	3 37	-1.2416	-0.8111	-1.6529	-1.0459	-1.6242	-1.0951	-1.2171	-0.8531
KA, SEG =	4 37	-1.2406	0.8111	-1.6519	1.0459	-1.6232	1.0951	-1.2161	0.8531
KA, SEG =	1 38	1.2153	0.8515	1.6224	1.0934	1.5929	1.1421	1.1900	0.8931
KA, SEG =	2 38	1.2143	-0.8515	1.6214	-1.0934	1.5919	-1.1421	1.1890	-0.8931
KA, SEG =	3 38	-1.2143	-0.8515	-1.6214	-1.0934	-1.5919	-1.1421	-1.1890	-0.8931
KA, SEG =	4 38	-1.2133	0.8515	-1.6204	1.0934	-1.5909	1.1421	-1.1880	0.8931
KA, SEG =	1 39	1.1867	0.8910	1.5896	1.1400	1.5592	1.1882	1.1607	0.9322
KA, SEG =	2 39	1.1857	-0.8910	1.5886	-1.1400	1.5582	-1.1882	1.1597	-0.9322
KA, SEG =	3 39	-1.1857	-0.8910	-1.5886	-1.1400	-1.5582	-1.1882	-1.1597	-0.9322
KA, SEG =	4 39	-1.1847	0.8910	-1.5876	1.1400	-1.5572	1.1882	-1.1587	0.9322
KA, SEG =	1 40	1.1569	0.9297	1.5554	1.1857	1.5242	1.2333	1.1302	0.9705
KA, SEG =	2 40	1.1559	-0.9297	1.5544	-1.1857	1.5232	-1.2333	1.1292	-0.9705
KA, SEG =	3 40	-1.1559	-0.9297	-1.5544	-1.1857	-1.5232	-1.2333	-1.1292	-0.9705
KA, SEG =	4 40	-1.1549	0.9297	-1.5534	1.1857	-1.5222	1.2333	-1.1282	0.9705
KA, SEG =	1 41	1.1258	0.9675	1.5198	1.2304	1.4878	1.2774	1.0984	1.0078
KA, SEG =	2 41	1.1248	-0.9675	1.5188	-1.2304	1.4868	-1.2774	1.0974	-1.0078
KA, SEG =	3 41	-1.1248	-0.9675	-1.5188	-1.2304	-1.4868	-1.2774	-1.0974	-1.0078
KA, SEG =	4 41	-1.1238	0.9675	-1.5178	1.2304	-1.4858	1.2774	-1.0964	1.0078
KA, SEG =	1 42	1.0935	1.0044	1.4829	1.2740	1.4501	1.3206	1.0655	1.0442
KA, SEG =	2 42	1.0925	-1.0044	1.4819	-1.2740	1.4491	-1.3206	1.0645	-1.0442
KA, SEG =	3 42	-1.0925	-1.0044	-1.4819	-1.2740	-1.4491	-1.3206	-1.0645	-1.0442
KA, SEG =	4 42	-1.0915	1.0044	-1.4809	1.2740	-1.4481	1.3206	-1.0635	1.0442
KA, SEG =	1 43	1.0601	1.0403	1.4447	1.3167	1.4111	1.3628	1.0313	1.0796
KA, SEG =	2 43	1.0591	-1.0403	1.4437	-1.3167	1.4101	-1.3628	1.0303	-1.0796
KA, SEG =	3 43	-1.0591	-1.0403	-1.4437	-1.3167	-1.4101	-1.3628	-1.0303	-1.0796
KA, SEG =	4 43	-1.0581	1.0403	-1.4427	1.3167	-1.4091	1.3628	-1.0293	1.0796
KA, SEG =	1 44	1.0254	1.0752	1.4052	1.3582	1.3708	1.4036	0.9960	1.1140
KA, SEG =	2 44	1.0244	-1.0752	1.4042	-1.3582	1.3698	-1.4036	0.9950	-1.1140
KA, SEG =	3 44	-1.0244	-1.0752	-1.4042	-1.3582	-1.3698	-1.4036	-0.9950	-1.1140
KA, SEG =	4 44	-1.0234	1.0752	-1.4032	1.3582	-1.3688	1.4036	-0.9940	1.1140
KA, SEG =	1 45	0.9896	1.1091	1.3644	1.3986	1.3292	1.4434	0.9595	1.1474
KA, SEG =	2 45	0.9886	-1.1091	1.3634	-1.3986	1.3282	-1.4434	0.9585	-1.1474
KA, SEG =	3 45	-0.9886	-1.1091	-1.3634	-1.3986	-1.3282	-1.4434	-0.9585	-1.1474
KA, SEG =	4 45	-0.9876	1.1091	-1.3624	1.3986	-1.3272	1.4434	-0.9575	1.1474

Top half of the inner coil moved .001" to the right

KA, SEG =	1	1	0.9851	0.0040	1.4755	0.0040	1.4748	0.0732	0.9845	0.0628
KA, SEG =	2	1	0.9841	-0.0040	1.4745	-0.0040	1.4738	-0.0732	0.9835	-0.0628
KA, SEG =	3	1	-0.9841	-0.0040	-1.4745	-0.0040	-1.4738	-0.0732	-0.9835	-0.0628
KA, SEG =	4	1	-0.9831	0.0040	-1.4735	0.0040	-1.4728	0.0732	-0.9825	0.0628
KA, SEG =	1	2	0.9825	0.0627	1.4728	0.0732	1.4708	0.1424	0.9808	0.1214
KA, SEG =	2	2	0.9815	-0.0627	1.4718	-0.0732	1.4698	-0.1424	0.9798	-0.1214
KA, SEG =	3	2	-0.9815	-0.0627	-1.4718	-0.0732	-1.4698	-0.1424	-0.9798	-0.1214
KA, SEG =	4	2	-0.9805	0.0627	-1.4708	0.0732	-1.4688	0.1424	-0.9788	0.1214
KA, SEG =	1	3	0.9769	0.1213	1.4668	0.1422	1.4631	0.2114	0.9737	0.1800
KA, SEG =	2	3	0.9759	-0.1213	1.4658	-0.1422	1.4621	-0.2114	0.9727	-0.1800
KA, SEG =	3	3	-0.9759	-0.1213	-1.4658	-0.1422	-1.4621	-0.2114	-0.9727	-0.1800
KA, SEG =	4	3	-0.9749	0.1213	-1.4648	0.1422	-1.4611	0.2114	-0.9717	0.1800
KA, SEG =	1	4	0.9682	0.1796	1.4576	0.2110	1.4524	0.2801	0.9638	0.2382
KA, SEG =	2	4	0.9672	-0.1796	1.4566	-0.2110	1.4514	-0.2801	0.9628	-0.2382
KA, SEG =	3	4	-0.9672	-0.1796	-1.4566	-0.2110	-1.4514	-0.2801	-0.9628	-0.2382
KA, SEG =	4	4	-0.9662	0.1796	-1.4556	0.2110	-1.4504	0.2801	-0.9618	0.2382
KA, SEG =	1	5	0.9565	0.2376	1.4451	0.2794	1.4385	0.3484	0.9508	0.2961
KA, SEG =	2	5	0.9555	-0.2376	1.4441	-0.2794	1.4375	-0.3484	0.9498	-0.2961
KA, SEG =	3	5	-0.9555	-0.2376	-1.4441	-0.2794	-1.4375	-0.3484	-0.9498	-0.2961
KA, SEG =	4	5	-0.9545	0.2376	-1.4431	0.2794	-1.4365	0.3484	-0.9488	0.2961
KA, SEG =	1	6	0.9417	0.2951	1.4294	0.3474	1.4212	0.4161	0.9348	0.3534
KA, SEG =	2	6	0.9407	-0.2951	1.4284	-0.3474	1.4202	-0.4161	0.9338	-0.3534
KA, SEG =	3	6	-0.9407	-0.2951	-1.4284	-0.3474	-1.4202	-0.4161	-0.9338	-0.3534
KA, SEG =	4	6	-0.9397	0.2951	-1.4274	0.3474	-1.4192	0.4161	-0.9328	0.3534
KA, SEG =	1	7	0.9248	0.3729	1.3313	0.6473	1.2919	0.7043	0.8914	0.4212
KA, SEG =	2	7	0.9238	-0.3729	1.3303	-0.6473	1.2909	-0.7043	0.8904	-0.4212
KA, SEG =	3	7	-0.9238	-0.3729	-1.3303	-0.6473	-1.2909	-0.7043	-0.8904	-0.4212
KA, SEG =	4	7	-0.9228	0.3729	-1.3293	0.6473	-1.2899	0.7043	-0.8894	0.4212
KA, SEG =	1	8	0.8980	0.4259	1.2985	0.7090	1.2579	0.7651	0.8638	0.4735
KA, SEG =	2	8	0.8970	-0.4259	1.2975	-0.7090	1.2569	-0.7651	0.8628	-0.4735
KA, SEG =	3	8	-0.8970	-0.4259	-1.2975	-0.7090	-1.2569	-0.7651	-0.8628	-0.4735
KA, SEG =	4	8	-0.8960	0.4259	-1.2965	0.7090	-1.2559	0.7651	-0.8618	0.4735
KA, SEG =	1	9	0.8686	0.4772	1.2630	0.7688	1.2212	0.8240	0.8332	0.5241
KA, SEG =	2	9	0.8676	-0.4772	1.2620	-0.7688	1.2202	-0.8240	0.8322	-0.5241
KA, SEG =	3	9	-0.8676	-0.4772	-1.2620	-0.7688	-1.2202	-0.8240	-0.8322	-0.5241
KA, SEG =	4	9	-0.8666	0.4772	-1.2610	0.7688	-1.2192	0.8240	-0.8312	0.5241
KA, SEG =	1	10	0.8367	0.5268	1.2247	0.8267	1.1818	0.8811	0.8003	0.5729
KA, SEG =	2	10	0.8357	-0.5268	1.2237	-0.8267	1.1808	-0.8811	0.7993	-0.5729
KA, SEG =	3	10	-0.8357	-0.5268	-1.2237	-0.8267	-1.1808	-0.8811	-0.7993	-0.5729
KA, SEG =	4	10	-0.8347	0.5268	-1.2227	0.8267	-1.1798	0.8811	-0.7983	0.5729
KA, SEG =	1	11	0.8023	0.5746	1.1839	0.8827	1.1398	0.9361	0.7649	0.6199
KA, SEG =	2	11	0.8013	-0.5746	1.1829	-0.8827	1.1388	-0.9361	0.7639	-0.6199
KA, SEG =	3	11	-0.8013	-0.5746	-1.1829	-0.8827	-1.1388	-0.9361	-0.7639	-0.6199
KA, SEG =	4	11	-0.8003	0.5746	-1.1819	0.8827	-1.1378	0.9361	-0.7629	0.6199
KA, SEG =	1	12	0.7656	0.6205	1.1405	0.9367	1.0953	0.9891	0.7272	0.6650
KA, SEG =	2	12	0.7646	-0.6205	1.1395	-0.9367	1.0943	-0.9891	0.7262	-0.6650
KA, SEG =	3	12	-0.7646	-0.6205	-1.1395	-0.9367	-1.0943	-0.9891	-0.7262	-0.6650
KA, SEG =	4	12	-0.7636	0.6205	-1.1385	0.9367	-1.0933	0.9891	-0.7252	0.6650
KA, SEG =	1	13	0.7266	0.6644	1.0946	0.9886	1.0483	1.0400	0.6873	0.7081
KA, SEG =	2	13	0.7256	-0.6644	1.0936	-0.9886	1.0473	-1.0400	0.6863	-0.7081
KA, SEG =	3	13	-0.7256	-0.6644	-1.0936	-0.9886	-1.0473	-1.0400	-0.6863	-0.7081
KA, SEG =	4	13	-0.7246	0.6644	-1.0926	0.9886	-1.0463	1.0400	-0.6853	0.7081
KA, SEG =	1	14	0.6296	0.7597	0.9200	1.1549	0.8638	1.1953	0.5819	0.7940
KA, SEG =	2	14	0.6286	-0.7597	0.9190	-1.1549	0.8628	-1.1953	0.5809	-0.7940
KA, SEG =	3	14	-0.6286	-0.7597	-0.9190	-1.1549	-0.8628	-1.1953	-0.5809	-0.7940
KA, SEG =	4	14	-0.6276	0.7597	-0.9180	1.1549	-0.8618	1.1953	-0.5799	0.7940
KA, SEG =	1	15	0.5824	0.7947	0.8643	1.1960	0.8073	1.2352	0.5340	0.8280
KA, SEG =	2	15	0.5814	-0.7947	0.8633	-1.1960	0.8063	-1.2352	0.5330	-0.8280
KA, SEG =	3	15	-0.5814	-0.7947	-0.8633	-1.1960	-0.8063	-1.2352	-0.5330	-0.8280
KA, SEG =	4	15	-0.5804	0.7947	-0.8623	1.1960	-0.8053	1.2352	-0.5320	0.8280
KA, SEG =	1	16	0.5335	0.8272	0.8068	1.2345	0.7489	1.2724	0.4843	0.8595
KA, SEG =	2	16	0.5325	-0.8272	0.8058	-1.2345	0.7479	-1.2724	0.4833	-0.8595
KA, SEG =	3	16	-0.5325	-0.8272	-0.8058	-1.2345	-0.7479	-1.2724	-0.4833	-0.8595
KA, SEG =	4	16	-0.5315	0.8272	-0.8048	1.2345	-0.7469	1.2724	-0.4823	0.8595

KA, SEG =	1 17	0.4154	0.8947	0.5957	1.3508	0.5310	1.3756	0.3606	0.9157
KA, SEG =	2 17	0.4144	-0.8947	0.5947	-1.3508	0.5300	-1.3756	0.3596	-0.9157
KA, SEG =	3 17	-0.4144	-0.8947	-0.5947	-1.3508	-0.5300	-1.3756	-0.3596	-0.9157
KA, SEG =	4 17	-0.4134	0.8947	-0.5937	1.3508	-0.5290	1.3756	-0.3586	0.9157
KA, SEG =	1 18	0.3609	0.9166	0.5313	1.3764	0.4661	1.3998	0.3055	0.9364
KA, SEG =	2 18	0.3599	-0.9166	0.5303	-1.3764	0.4651	-1.3998	0.3045	-0.9364
KA, SEG =	3 18	-0.3599	-0.9166	-0.5303	-1.3764	-0.4651	-1.3998	-0.3045	-0.9364
KA, SEG =	4 18	-0.3589	0.9166	-0.5293	1.3764	-0.4641	1.3998	-0.3035	0.9364
KA, SEG =	1 19	0.3053	0.9356	0.4658	1.3990	0.4002	1.4209	0.2495	0.9542
KA, SEG =	2 19	0.3043	-0.9356	0.4648	-1.3990	0.3992	-1.4209	0.2485	-0.9542
KA, SEG =	3 19	-0.3043	-0.9356	-0.4648	-1.3990	-0.3992	-1.4209	-0.2485	-0.9542
KA, SEG =	4 19	-0.3033	0.9356	-0.4638	1.3990	-0.3982	1.4209	-0.2475	0.9542
KA, SEG =	1 20	1.4836	0.0040	1.9572	0.0040	1.9567	0.0609	1.4832	0.0527
KA, SEG =	2 20	1.4836	-0.0040	1.9572	-0.0040	1.9567	-0.0609	1.4832	-0.0527
KA, SEG =	3 20	-1.4836	-0.0040	-1.9572	-0.0040	-1.9567	-0.0609	-1.4832	-0.0527
KA, SEG =	4 20	-1.4836	0.0040	-1.9572	0.0040	-1.9567	0.0609	-1.4832	0.0527
KA, SEG =	1 21	1.4824	0.0527	1.9559	0.0609	1.9545	0.1178	1.4811	0.1013
KA, SEG =	2 21	1.4824	-0.0527	1.9559	-0.0609	1.9545	-0.1178	1.4811	-0.1013
KA, SEG =	3 21	-1.4824	-0.0527	-1.9559	-0.0609	-1.9545	-0.1178	-1.4811	-0.1013
KA, SEG =	4 21	-1.4824	0.0527	-1.9559	0.0609	-1.9545	0.1178	-1.4811	0.1013
KA, SEG =	1 22	1.4797	0.1013	1.9530	0.1177	1.9505	0.1746	1.4776	0.1499
KA, SEG =	2 22	1.4797	-0.1013	1.9530	-0.1177	1.9505	-0.1746	1.4776	-0.1499
KA, SEG =	3 22	-1.4797	-0.1013	-1.9530	-0.1177	-1.9505	-0.1746	-1.4776	-0.1499
KA, SEG =	4 22	-1.4797	0.1013	-1.9530	0.1177	-1.9505	0.1746	-1.4776	0.1499
KA, SEG =	1 23	1.4755	0.1498	1.9484	0.1745	1.9450	0.2313	1.4725	0.1984
KA, SEG =	2 23	1.4755	-0.1498	1.9484	-0.1745	1.9450	-0.2313	1.4725	-0.1984
KA, SEG =	3 23	-1.4755	-0.1498	-1.9484	-0.1745	-1.9450	-0.2313	-1.4725	-0.1984
KA, SEG =	4 23	-1.4755	0.1498	-1.9484	0.1745	-1.9450	0.2313	-1.4725	0.1984
KA, SEG =	1 24	1.4697	0.1982	1.9422	0.2311	1.9377	0.2878	1.4659	0.2468
KA, SEG =	2 24	1.4697	-0.1982	1.9422	-0.2311	1.9377	-0.2878	1.4659	-0.2468
KA, SEG =	3 24	-1.4697	-0.1982	-1.9422	-0.2311	-1.9377	-0.2878	-1.4659	-0.2468
KA, SEG =	4 24	-1.4697	0.1982	-1.9422	0.2311	-1.9377	0.2878	-1.4659	0.2468
KA, SEG =	1 25	1.4625	0.2465	1.9343	0.2875	1.9289	0.3442	1.4578	0.2949
KA, SEG =	2 25	1.4625	-0.2465	1.9343	-0.2875	1.9289	-0.3442	1.4578	-0.2949
KA, SEG =	3 25	-1.4625	-0.2465	-1.9343	-0.2875	-1.9289	-0.3442	-1.4578	-0.2949
KA, SEG =	4 25	-1.4625	0.2465	-1.9343	0.2875	-1.9289	0.3442	-1.4578	0.2949
KA, SEG =	1 26	1.4537	0.2945	1.9247	0.3438	1.9183	0.4003	1.4482	0.3429
KA, SEG =	2 26	1.4537	-0.2945	1.9247	-0.3438	1.9183	-0.4003	1.4482	-0.3429
KA, SEG =	3 26	-1.4537	-0.2945	-1.9247	-0.3438	-1.9183	-0.4003	-1.4482	-0.3429
KA, SEG =	4 26	-1.4537	0.2945	-1.9247	0.3438	-1.9183	0.4003	-1.4482	0.3429
KA, SEG =	1 27	1.4434	0.3423	1.9136	0.3997	1.9062	0.4562	1.4371	0.3906
KA, SEG =	2 27	1.4434	-0.3423	1.9136	-0.3997	1.9062	-0.4562	1.4371	-0.3906
KA, SEG =	3 27	-1.4434	-0.3423	-1.9136	-0.3997	-1.9062	-0.4562	-1.4371	-0.3906
KA, SEG =	4 27	-1.4434	0.3423	-1.9136	0.3997	-1.9062	0.4562	-1.4371	0.3906
KA, SEG =	1 28	1.4317	0.3898	1.9007	0.4554	1.8924	0.5117	1.4245	0.4380
KA, SEG =	2 28	1.4317	-0.3898	1.9007	-0.4554	1.8924	-0.5117	1.4245	-0.4380
KA, SEG =	3 28	-1.4317	-0.3898	-1.9007	-0.4554	-1.8924	-0.5117	-1.4245	-0.4380
KA, SEG =	4 28	-1.4317	0.3898	-1.9007	0.4554	-1.8924	0.5117	-1.4245	0.4380
KA, SEG =	1 29	1.4184	0.4370	1.8863	0.5107	1.8769	0.5669	1.4104	0.4850
KA, SEG =	2 29	1.4184	-0.4370	1.8863	-0.5107	1.8769	-0.5669	1.4104	-0.4850
KA, SEG =	3 29	-1.4184	-0.4370	-1.8863	-0.5107	-1.8769	-0.5669	-1.4104	-0.4850
KA, SEG =	4 29	-1.4184	0.4370	-1.8863	0.5107	-1.8769	0.5669	-1.4104	0.4850
KA, SEG =	1 30	1.4037	0.4838	1.8701	0.5657	1.8598	0.6217	1.3948	0.5317
KA, SEG =	2 30	1.4037	-0.4838	1.8701	-0.5657	1.8598	-0.6217	1.3948	-0.5317
KA, SEG =	3 30	-1.4037	-0.4838	-1.8701	-0.5657	-1.8598	-0.6217	-1.3948	-0.5317
KA, SEG =	4 30	-1.4037	0.4838	-1.8701	0.5657	-1.8598	0.6217	-1.3948	0.5317
KA, SEG =	1 31	1.3777	0.5530	1.8112	0.7438	1.7878	0.7957	1.3577	0.5974
KA, SEG =	2 31	1.3777	-0.5530	1.8112	-0.7438	1.7878	-0.7957	1.3577	-0.5974
KA, SEG =	3 31	-1.3777	-0.5530	-1.8112	-0.7438	-1.7878	-0.7957	-1.3577	-0.5974
KA, SEG =	4 31	-1.3777	0.5530	-1.8112	0.7438	-1.7878	0.7957	-1.3577	0.5974
KA, SEG =	1 32	1.3584	0.5977	1.7885	0.7960	1.7643	0.8475	1.3377	0.6417
KA, SEG =	2 32	1.3584	-0.5977	1.7885	-0.7960	1.7643	-0.8475	1.3377	-0.6417
KA, SEG =	3 32	-1.3584	-0.5977	-1.7885	-0.7960	-1.7643	-0.8475	-1.3377	-0.6417
KA, SEG =	4 32	-1.3584	0.5977	-1.7885	0.7960	-1.7643	0.8475	-1.3377	0.6417
KA, SEG =	1 33	1.3377	0.6418	1.7643	0.8475	1.7392	0.8985	1.3162	0.6854

KA, SEG =	2	33	1.3377	-0.6418	1.7643	-0.8475	1.7392	-0.8985	1.3162	-0.6854
KA, SEG =	3	33	-1.3377	-0.6418	-1.7643	-0.8475	-1.7392	-0.8985	-1.3162	-0.6854
KA, SEG =	4	33	-1.3377	0.6418	-1.7643	0.8475	-1.7392	0.8985	-1.3162	0.6854
KA, SEG =	1	34	1.3157	0.6852	1.7387	0.8983	1.7126	0.9489	1.2934	0.7285
KA, SEG =	2	34	1.3157	-0.6852	1.7387	-0.8983	1.7126	-0.9489	1.2934	-0.7285
KA, SEG =	3	34	-1.3157	-0.6852	-1.7387	-0.8983	-1.7126	-0.9489	-1.2934	-0.7285
KA, SEG =	4	34	-1.3157	0.6852	-1.7387	0.8983	-1.7126	0.9489	-1.2934	0.7285
KA, SEG =	1	35	1.2923	0.7279	1.7115	0.9483	1.8848	0.9984	1.2693	0.7708
KA, SEG =	2	35	1.2923	-0.7279	1.7115	-0.9483	1.8848	-0.9984	1.2693	-0.7708
KA, SEG =	3	35	-1.2923	-0.7279	-1.7115	-0.9483	-1.8848	-0.9984	-1.2693	-0.7708
KA, SEG =	4	35	-1.2923	0.7279	-1.7115	0.9483	-1.8848	0.9984	-1.2693	0.7708
KA, SEG =	1	36	1.2676	0.7699	1.6829	0.9975	1.8551	1.0472	1.2438	0.8123
KA, SEG =	2	36	1.2676	-0.7699	1.6829	-0.9975	1.8551	-1.0472	1.2438	-0.8123
KA, SEG =	3	36	-1.2676	-0.7699	-1.6829	-0.9975	-1.8551	-1.0472	-1.2438	-0.8123
KA, SEG =	4	36	-1.2676	0.7699	-1.6829	0.9975	-1.8551	1.0472	-1.2438	0.8123
KA, SEG =	1	37	1.2416	0.8111	1.6529	1.0459	1.8242	1.0951	1.2171	0.8531
KA, SEG =	2	37	1.2416	-0.8111	1.6529	-1.0459	1.8242	-1.0951	1.2171	-0.8531
KA, SEG =	3	37	-1.2416	-0.8111	-1.6529	-1.0459	-1.8242	-1.0951	-1.2171	-0.8531
KA, SEG =	4	37	-1.2416	0.8111	-1.6529	1.0459	-1.8242	1.0951	-1.2171	0.8531
KA, SEG =	1	38	1.2143	0.8515	1.6214	1.0934	1.5919	1.1421	1.1890	0.8931
KA, SEG =	2	38	1.2143	-0.8515	1.6214	-1.0934	1.5919	-1.1421	1.1890	-0.8931
KA, SEG =	3	38	-1.2143	-0.8515	-1.6214	-1.0934	-1.5919	-1.1421	-1.1890	-0.8931
KA, SEG =	4	38	-1.2143	0.8515	-1.6214	1.0934	-1.5919	1.1421	-1.1890	0.8931
KA, SEG =	1	39	1.1857	0.8910	1.5886	1.1400	1.5582	1.1882	1.1597	0.9322
KA, SEG =	2	39	1.1857	-0.8910	1.5886	-1.1400	1.5582	-1.1882	1.1597	-0.9322
KA, SEG =	3	39	-1.1857	-0.8910	-1.5886	-1.1400	-1.5582	-1.1882	-1.1597	-0.9322
KA, SEG =	4	39	-1.1857	0.8910	-1.5886	1.1400	-1.5582	1.1882	-1.1597	0.9322
KA, SEG =	1	40	1.1559	0.9297	1.5544	1.1857	1.5232	1.2333	1.1292	0.9705
KA, SEG =	2	40	1.1559	-0.9297	1.5544	-1.1857	1.5232	-1.2333	1.1292	-0.9705
KA, SEG =	3	40	-1.1559	-0.9297	-1.5544	-1.1857	-1.5232	-1.2333	-1.1292	-0.9705
KA, SEG =	4	40	-1.1559	0.9297	-1.5544	1.1857	-1.5232	1.2333	-1.1292	0.9705
KA, SEG =	1	41	1.1248	0.9675	1.5188	1.2304	1.4868	1.2774	1.0974	1.0078
KA, SEG =	2	41	1.1248	-0.9675	1.5188	-1.2304	1.4868	-1.2774	1.0974	-1.0078
KA, SEG =	3	41	-1.1248	-0.9675	-1.5188	-1.2304	-1.4868	-1.2774	-1.0974	-1.0078
KA, SEG =	4	41	-1.1248	0.9675	-1.5188	1.2304	-1.4868	1.2774	-1.0974	1.0078
KA, SEG =	1	42	1.0925	1.0044	1.4819	1.2740	1.4491	1.3206	1.0645	1.0442
KA, SEG =	2	42	1.0925	-1.0044	1.4819	-1.2740	1.4491	-1.3206	1.0645	-1.0442
KA, SEG =	3	42	-1.0925	-1.0044	-1.4819	-1.2740	-1.4491	-1.3206	-1.0645	-1.0442
KA, SEG =	4	42	-1.0925	1.0044	-1.4819	1.2740	-1.4491	1.3206	-1.0645	1.0442
KA, SEG =	1	43	1.0591	1.0403	1.4437	1.3167	1.4101	1.3626	1.0303	1.0796
KA, SEG =	2	43	1.0591	-1.0403	1.4437	-1.3167	1.4101	-1.3626	1.0303	-1.0796
KA, SEG =	3	43	-1.0591	-1.0403	-1.4437	-1.3167	-1.4101	-1.3626	-1.0303	-1.0796
KA, SEG =	4	43	-1.0591	1.0403	-1.4437	1.3167	-1.4101	1.3626	-1.0303	1.0796
KA, SEG =	1	44	1.0244	1.0752	1.4042	1.3582	1.3698	1.4036	0.9950	1.1140
KA, SEG =	2	44	1.0244	-1.0752	1.4042	-1.3582	1.3698	-1.4036	0.9950	-1.1140
KA, SEG =	3	44	-1.0244	-1.0752	-1.4042	-1.3582	-1.3698	-1.4036	-0.9950	-1.1140
KA, SEG =	4	44	-1.0244	1.0752	-1.4042	1.3582	-1.3698	1.4036	-0.9950	1.1140
KA, SEG =	1	45	0.9886	1.1091	1.3634	1.3986	1.3282	1.4434	0.9585	1.1474
KA, SEG =	2	45	0.9886	-1.1091	1.3634	-1.3986	1.3282	-1.4434	0.9585	-1.1474
KA, SEG =	3	45	-0.9886	-1.1091	-1.3634	-1.3986	-1.3282	-1.4434	-0.9585	-1.1474
KA, SEG =	4	45	-0.9886	1.1091	-1.3634	1.3986	-1.3282	1.4434	-0.9585	1.1474

Top half of the coils moved .001" to the right

KA, SEG =	1	1	0.9851	0.0040	1.4755	0.0040	1.4748	0.0732	0.9845	0.0628
KA, SEG =	2	1	0.9841	-0.0040	1.4745	-0.0040	1.4738	-0.0732	0.9835	-0.0628
KA, SEG =	3	1	-0.9841	-0.0040	-1.4745	-0.0040	-1.4738	-0.0732	-0.9835	-0.0628
KA, SEG =	4	1	-0.9831	0.0040	-1.4735	0.0040	-1.4728	0.0732	-0.9825	0.0628
KA, SEG =	1	2	0.9825	0.0627	1.4728	0.0732	1.4706	0.1424	0.9806	0.1214
KA, SEG =	2	2	0.9815	-0.0627	1.4718	-0.0732	1.4696	-0.1424	0.9796	-0.1214
KA, SEG =	3	2	-0.9815	-0.0627	-1.4718	-0.0732	-1.4696	-0.1424	-0.9796	-0.1214
KA, SEG =	4	2	-0.9805	0.0627	-1.4708	0.0732	-1.4686	0.1424	-0.9786	0.1214
KA, SEG =	1	3	0.9769	0.1213	1.4668	0.1422	1.4631	0.2114	0.9737	0.1800
KA, SEG =	2	3	0.9759	-0.1213	1.4658	-0.1422	1.4621	-0.2114	0.9727	-0.1800
KA, SEG =	3	3	-0.9759	-0.1213	-1.4658	-0.1422	-1.4621	-0.2114	-0.9727	-0.1800
KA, SEG =	4	3	-0.9749	0.1213	-1.4648	0.1422	-1.4611	0.2114	-0.9717	0.1800
KA, SEG =	1	4	0.9682	0.1796	1.4576	0.2110	1.4524	0.2801	0.9638	0.2382
KA, SEG =	2	4	0.9672	-0.1796	1.4566	-0.2110	1.4514	-0.2801	0.9628	-0.2382
KA, SEG =	3	4	-0.9672	-0.1796	-1.4566	-0.2110	-1.4514	-0.2801	-0.9628	-0.2382
KA, SEG =	4	4	-0.9662	0.1796	-1.4556	0.2110	-1.4504	0.2801	-0.9618	0.2382
KA, SEG =	1	5	0.9565	0.2376	1.4451	0.2794	1.4385	0.3484	0.9508	0.2961
KA, SEG =	2	5	0.9555	-0.2376	1.4441	-0.2794	1.4375	-0.3484	0.9498	-0.2961
KA, SEG =	3	5	-0.9555	-0.2376	-1.4441	-0.2794	-1.4375	-0.3484	-0.9498	-0.2961
KA, SEG =	4	5	-0.9545	0.2376	-1.4431	0.2794	-1.4365	0.3484	-0.9488	0.2961
KA, SEG =	1	6	0.9417	0.2951	1.4294	0.3474	1.4212	0.4161	0.9348	0.3534
KA, SEG =	2	6	0.9407	-0.2951	1.4284	-0.3474	1.4202	-0.4161	0.9338	-0.3534
KA, SEG =	3	6	-0.9407	-0.2951	-1.4284	-0.3474	-1.4202	-0.4161	-0.9338	-0.3534
KA, SEG =	4	6	-0.9397	0.2951	-1.4274	0.3474	-1.4192	0.4161	-0.9328	0.3534
KA, SEG =	1	7	0.9248	0.3729	1.3313	0.6473	1.2919	0.7043	0.8914	0.4212
KA, SEG =	2	7	0.9238	-0.3729	1.3303	-0.6473	1.2909	-0.7043	0.8904	-0.4212
KA, SEG =	3	7	-0.9238	-0.3729	-1.3303	-0.6473	-1.2909	-0.7043	-0.8904	-0.4212
KA, SEG =	4	7	-0.9228	0.3729	-1.3293	0.6473	-1.2899	0.7043	-0.8894	0.4212
KA, SEG =	1	8	0.8980	0.4259	1.2985	0.7090	1.2579	0.7651	0.8636	0.4735
KA, SEG =	2	8	0.8970	-0.4259	1.2975	-0.7090	1.2569	-0.7651	0.8626	-0.4735
KA, SEG =	3	8	-0.8970	-0.4259	-1.2975	-0.7090	-1.2569	-0.7651	-0.8626	-0.4735
KA, SEG =	4	8	-0.8960	0.4259	-1.2965	0.7090	-1.2559	0.7651	-0.8616	0.4735
KA, SEG =	1	9	0.8686	0.4772	1.2630	0.7688	1.2212	0.8240	0.8332	0.5241
KA, SEG =	2	9	0.8676	-0.4772	1.2620	-0.7688	1.2202	-0.8240	0.8322	-0.5241
KA, SEG =	3	9	-0.8676	-0.4772	-1.2620	-0.7688	-1.2202	-0.8240	-0.8322	-0.5241
KA, SEG =	4	9	-0.8666	0.4772	-1.2610	0.7688	-1.2192	0.8240	-0.8312	0.5241
KA, SEG =	1	10	0.8367	0.5268	1.2247	0.8267	1.1818	0.8811	0.8003	0.5729
KA, SEG =	2	10	0.8357	-0.5268	1.2237	-0.8267	1.1808	-0.8811	0.7993	-0.5729
KA, SEG =	3	10	-0.8357	-0.5268	-1.2237	-0.8267	-1.1808	-0.8811	-0.7993	-0.5729
KA, SEG =	4	10	-0.8347	0.5268	-1.2227	0.8267	-1.1798	0.8811	-0.7983	0.5729
KA, SEG =	1	11	0.8023	0.5746	1.1839	0.8827	1.1398	0.9361	0.7649	0.6199
KA, SEG =	2	11	0.8013	-0.5746	1.1829	-0.8827	1.1388	-0.9361	0.7639	-0.6199
KA, SEG =	3	11	-0.8013	-0.5746	-1.1829	-0.8827	-1.1388	-0.9361	-0.7639	-0.6199
KA, SEG =	4	11	-0.8003	0.5746	-1.1819	0.8827	-1.1378	0.9361	-0.7629	0.6199
KA, SEG =	1	12	0.7656	0.6205	1.1405	0.9367	1.0953	0.9891	0.7272	0.6650
KA, SEG =	2	12	0.7646	-0.6205	1.1395	-0.9367	1.0943	-0.9891	0.7262	-0.6650
KA, SEG =	3	12	-0.7646	-0.6205	-1.1395	-0.9367	-1.0943	-0.9891	-0.7262	-0.6650
KA, SEG =	4	12	-0.7636	0.6205	-1.1385	0.9367	-1.0933	0.9891	-0.7252	0.6650
KA, SEG =	1	13	0.7266	0.6644	1.0946	0.9886	1.0483	1.0400	0.6873	0.7081
KA, SEG =	2	13	0.7256	-0.6644	1.0936	-0.9886	1.0473	-1.0400	0.6863	-0.7081
KA, SEG =	3	13	-0.7256	-0.6644	-1.0936	-0.9886	-1.0473	-1.0400	-0.6863	-0.7081
KA, SEG =	4	13	-0.7246	0.6644	-1.0926	0.9886	-1.0463	1.0400	-0.6853	0.7081
KA, SEG =	1	14	0.6296	0.7597	0.9200	1.1549	0.8638	1.1953	0.5819	0.7940
KA, SEG =	2	14	0.6286	-0.7597	0.9190	-1.1549	0.8628	-1.1953	0.5809	-0.7940
KA, SEG =	3	14	-0.6286	-0.7597	-0.9190	-1.1549	-0.8628	-1.1953	-0.5809	-0.7940
KA, SEG =	4	14	-0.6276	0.7597	-0.9180	1.1549	-0.8618	1.1953	-0.5799	0.7940
KA, SEG =	1	15	0.5824	0.7947	0.8843	1.1960	0.8073	1.2352	0.5340	0.8280
KA, SEG =	2	15	0.5814	-0.7947	0.8833	-1.1960	0.8063	-1.2352	0.5330	-0.8280
KA, SEG =	3	15	-0.5814	-0.7947	-0.8833	-1.1960	-0.8063	-1.2352	-0.5330	-0.8280
KA, SEG =	4	15	-0.5804	0.7947	-0.8823	1.1960	-0.8053	1.2352	-0.5320	0.8280
KA, SEG =	1	16	0.5335	0.8272	0.8068	1.2345	0.7489	1.2724	0.4843	0.8595
KA, SEG =	2	16	0.5325	-0.8272	0.8058	-1.2345	0.7479	-1.2724	0.4833	-0.8595
KA, SEG =	3	16	-0.5325	-0.8272	-0.8058	-1.2345	-0.7479	-1.2724	-0.4833	-0.8595
KA, SEG =	4	16	-0.5315	0.8272	-0.8048	1.2345	-0.7469	1.2724	-0.4823	0.8595

C-67(1)

KA, SEG =	1 17	0.4154	0.8947	0.5957	1.3508	0.5310	1.3756	0.3606	0.9157
KA, SEG =	2 17	0.4144	-0.8947	0.5947	-1.3508	0.5300	-1.3756	0.3596	-0.9157
KA, SEG =	3 17	-0.4144	-0.8947	-0.5947	-1.3508	-0.5300	-1.3756	-0.3596	-0.9157
KA, SEG =	4 17	-0.4134	0.8947	-0.5937	1.3508	-0.5290	1.3756	-0.3586	0.9157
KA, SEG =	1 18	0.3609	0.9166	0.5313	1.3764	0.4661	1.3998	0.3055	0.9364
KA, SEG =	2 18	0.3599	-0.9166	0.5303	-1.3764	0.4651	-1.3998	0.3045	-0.9364
KA, SEG =	3 18	-0.3599	-0.9166	-0.5303	-1.3764	-0.4651	-1.3998	-0.3045	-0.9364
KA, SEG =	4 18	-0.3589	0.9166	-0.5293	1.3764	-0.4641	1.3998	-0.3035	0.9364
KA, SEG =	1 19	0.3053	0.9356	0.4658	1.3990	0.4002	1.4209	0.2495	0.9542
KA, SEG =	2 19	0.3043	-0.9356	0.4648	-1.3990	0.3992	-1.4209	0.2485	-0.9542
KA, SEG =	3 19	-0.3043	-0.9356	-0.4648	-1.3990	-0.3992	-1.4209	-0.2485	-0.9542
KA, SEG =	4 19	-0.3033	0.9356	-0.4638	1.3990	-0.3982	1.4209	-0.2475	0.9542
KA, SEG =	1 20	1.4846	0.0040	1.9582	0.0040	1.9577	0.0609	1.4842	0.0527
KA, SEG =	2 20	1.4836	-0.0040	1.9572	-0.0040	1.9567	-0.0609	1.4832	-0.0527
KA, SEG =	3 20	-1.4836	-0.0040	-1.9572	-0.0040	-1.9567	-0.0609	-1.4832	-0.0527
KA, SEG =	4 20	-1.4826	0.0040	-1.9562	0.0040	-1.9557	0.0609	-1.4822	0.0527
KA, SEG =	1 21	1.4834	0.0527	1.9569	0.0609	1.9555	0.1178	1.4821	0.1013
KA, SEG =	2 21	1.4824	-0.0527	1.9559	-0.0609	1.9545	-0.1178	1.4811	-0.1013
KA, SEG =	3 21	-1.4824	-0.0527	-1.9559	-0.0609	-1.9545	-0.1178	-1.4811	-0.1013
KA, SEG =	4 21	-1.4814	0.0527	-1.9549	0.0609	-1.9535	0.1178	-1.4801	0.1013
KA, SEG =	1 22	1.4807	0.1013	1.9540	0.1177	1.9515	0.1746	1.4786	0.1499
KA, SEG =	2 22	1.4797	-0.1013	1.9530	-0.1177	1.9505	-0.1746	1.4776	-0.1499
KA, SEG =	3 22	-1.4797	-0.1013	-1.9530	-0.1177	-1.9505	-0.1746	-1.4776	-0.1499
KA, SEG =	4 22	-1.4787	0.1013	-1.9520	0.1177	-1.9495	0.1746	-1.4766	0.1499
KA, SEG =	1 23	1.4765	0.1498	1.9494	0.1745	1.9460	0.2313	1.4735	0.1984
KA, SEG =	2 23	1.4755	-0.1498	1.9484	-0.1745	1.9450	-0.2313	1.4725	-0.1984
KA, SEG =	3 23	-1.4755	-0.1498	-1.9484	-0.1745	-1.9450	-0.2313	-1.4725	-0.1984
KA, SEG =	4 23	-1.4745	0.1498	-1.9474	0.1745	-1.9440	0.2313	-1.4715	0.1984
KA, SEG =	1 24	1.4707	0.1982	1.9432	0.2311	1.9387	0.2878	1.4669	0.2468
KA, SEG =	2 24	1.4697	-0.1982	1.9422	-0.2311	1.9377	-0.2878	1.4659	-0.2468
KA, SEG =	3 24	-1.4697	-0.1982	-1.9422	-0.2311	-1.9377	-0.2878	-1.4659	-0.2468
KA, SEG =	4 24	-1.4687	0.1982	-1.9412	0.2311	-1.9367	0.2878	-1.4649	0.2468
KA, SEG =	1 25	1.4635	0.2465	1.9353	0.2875	1.9299	0.3442	1.4588	0.2949
KA, SEG =	2 25	1.4625	-0.2465	1.9343	-0.2875	1.9289	-0.3442	1.4578	-0.2949
KA, SEG =	3 25	-1.4625	-0.2465	-1.9343	-0.2875	-1.9289	-0.3442	-1.4578	-0.2949
KA, SEG =	4 25	-1.4615	0.2465	-1.9333	0.2875	-1.9279	0.3442	-1.4568	0.2949
KA, SEG =	1 26	1.4547	0.2945	1.9257	0.3438	1.9193	0.4003	1.4492	0.3429
KA, SEG =	2 26	1.4537	-0.2945	1.9247	-0.3438	1.9183	-0.4003	1.4482	-0.3429
KA, SEG =	3 26	-1.4537	-0.2945	-1.9247	-0.3438	-1.9183	-0.4003	-1.4482	-0.3429
KA, SEG =	4 26	-1.4527	0.2945	-1.9237	0.3438	-1.9173	0.4003	-1.4472	0.3429
KA, SEG =	1 27	1.4444	0.3423	1.9146	0.3997	1.9072	0.4562	1.4381	0.3906
KA, SEG =	2 27	1.4434	-0.3423	1.9136	-0.3997	1.9062	-0.4562	1.4371	-0.3906
KA, SEG =	3 27	-1.4434	-0.3423	-1.9136	-0.3997	-1.9062	-0.4562	-1.4371	-0.3906
KA, SEG =	4 27	-1.4424	0.3423	-1.9126	0.3997	-1.9052	0.4562	-1.4361	0.3906
KA, SEG =	1 28	1.4327	0.3898	1.9017	0.4554	1.8934	0.5117	1.4255	0.4380
KA, SEG =	2 28	1.4317	-0.3898	1.9007	-0.4554	1.8924	-0.5117	1.4245	-0.4380
KA, SEG =	3 28	-1.4317	-0.3898	-1.9007	-0.4554	-1.8924	-0.5117	-1.4245	-0.4380
KA, SEG =	4 28	-1.4307	0.3898	-1.8997	0.4554	-1.8914	0.5117	-1.4235	0.4380
KA, SEG =	1 29	1.4194	0.4370	1.8873	0.5107	1.8779	0.5669	1.4114	0.4850
KA, SEG =	2 29	1.4184	-0.4370	1.8863	-0.5107	1.8769	-0.5669	1.4104	-0.4850
KA, SEG =	3 29	-1.4184	-0.4370	-1.8863	-0.5107	-1.8769	-0.5669	-1.4104	-0.4850
KA, SEG =	4 29	-1.4174	0.4370	-1.8853	0.5107	-1.8759	0.5669	-1.4094	0.4850
KA, SEG =	1 30	1.4047	0.4838	1.8711	0.5657	1.8608	0.6217	1.3958	0.5317
KA, SEG =	2 30	1.4037	-0.4838	1.8701	-0.5657	1.8598	-0.6217	1.3948	-0.5317
KA, SEG =	3 30	-1.4037	-0.4838	-1.8701	-0.5657	-1.8598	-0.6217	-1.3948	-0.5317
KA, SEG =	4 30	-1.4027	0.4838	-1.8691	0.5657	-1.8588	0.6217	-1.3938	0.5317
KA, SEG =	1 31	1.3787	0.5530	1.8122	0.7438	1.7888	0.7957	1.3587	0.5974
KA, SEG =	2 31	1.3777	-0.5530	1.8112	-0.7438	1.7878	-0.7957	1.3577	-0.5974
KA, SEG =	3 31	-1.3777	-0.5530	-1.8112	-0.7438	-1.7878	-0.7957	-1.3577	-0.5974
KA, SEG =	4 31	-1.3767	0.5530	-1.8102	0.7438	-1.7868	0.7957	-1.3567	0.5974
KA, SEG =	1 32	1.3594	0.5977	1.7895	0.7960	1.7653	0.8475	1.3387	0.6417
KA, SEG =	2 32	1.3584	-0.5977	1.7885	-0.7960	1.7643	-0.8475	1.3377	-0.6417
KA, SEG =	3 32	-1.3584	-0.5977	-1.7885	-0.7960	-1.7643	-0.8475	-1.3377	-0.6417
KA, SEG =	4 32	-1.3574	0.5977	-1.7875	0.7960	-1.7633	0.8475	-1.3367	0.6417
KA, SEG =	1 33	1.3387	0.6418	1.7653	0.8475	1.7402	0.8985	1.3172	0.6854

KA, SEG =	2	33	1.3377	-0.6418	1.7643	-0.8475	1.7392	-0.8985	1.3162	-0.6854
KA, SEG =	3	33	-1.3377	-0.6418	-1.7643	-0.8475	-1.7392	-0.8985	-1.3162	-0.6854
KA, SEG =	4	33	-1.3367	0.6418	-1.7633	0.8475	-1.7382	0.8985	-1.3152	0.6854
KA, SEG =	1	34	1.3167	0.6852	1.7397	0.8983	1.7136	0.9489	1.2944	0.7285
KA, SEG =	2	34	1.3157	-0.6852	1.7387	-0.8983	1.7126	-0.9489	1.2934	-0.7285
KA, SEG =	3	34	-1.3157	-0.6852	-1.7387	-0.8983	-1.7126	-0.9489	-1.2934	-0.7285
KA, SEG =	4	34	-1.3147	0.6852	-1.7377	0.8983	-1.7116	0.9489	-1.2924	0.7285
KA, SEG =	1	35	1.2933	0.7279	1.7125	0.9483	1.6856	0.9984	1.2703	0.7708
KA, SEG =	2	35	1.2923	-0.7279	1.7115	-0.9483	1.6846	-0.9984	1.2693	-0.7708
KA, SEG =	3	35	-1.2923	-0.7279	-1.7115	-0.9483	-1.6846	-0.9984	-1.2693	-0.7708
KA, SEG =	4	35	-1.2913	0.7279	-1.7105	0.9483	-1.6836	0.9984	-1.2683	0.7708
KA, SEG =	1	36	1.2688	0.7699	1.6839	0.9975	1.6561	1.0472	1.2448	0.8123
KA, SEG =	2	36	1.2678	-0.7699	1.6829	-0.9975	1.6551	-1.0472	1.2438	-0.8123
KA, SEG =	3	36	-1.2678	-0.7699	-1.6829	-0.9975	-1.6551	-1.0472	-1.2438	-0.8123
KA, SEG =	4	36	-1.2668	0.7699	-1.6819	0.9975	-1.6541	1.0472	-1.2428	0.8123
KA, SEG =	1	37	1.2428	0.8111	1.6539	1.0459	1.6252	1.0951	1.2181	0.8531
KA, SEG =	2	37	1.2418	-0.8111	1.6529	-1.0459	1.6242	-1.0951	1.2171	-0.8531
KA, SEG =	3	37	-1.2418	-0.8111	-1.6529	-1.0459	-1.6242	-1.0951	-1.2171	-0.8531
KA, SEG =	4	37	-1.2408	0.8111	-1.6519	1.0459	-1.6232	1.0951	-1.2161	0.8531
KA, SEG =	1	38	1.2153	0.8515	1.6224	1.0934	1.5929	1.1421	1.1900	0.8931
KA, SEG =	2	38	1.2143	-0.8515	1.6214	-1.0934	1.5919	-1.1421	1.1890	-0.8931
KA, SEG =	3	38	-1.2143	-0.8515	-1.6214	-1.0934	-1.5919	-1.1421	-1.1890	-0.8931
KA, SEG =	4	38	-1.2133	0.8515	-1.6204	1.0934	-1.5909	1.1421	-1.1880	0.8931
KA, SEG =	1	39	1.1867	0.8910	1.5896	1.1400	1.5592	1.1882	1.1607	0.9322
KA, SEG =	2	39	1.1857	-0.8910	1.5886	-1.1400	1.5582	-1.1882	1.1597	-0.9322
KA, SEG =	3	39	-1.1857	-0.8910	-1.5886	-1.1400	-1.5582	-1.1882	-1.1597	-0.9322
KA, SEG =	4	39	-1.1847	0.8910	-1.5876	1.1400	-1.5572	1.1882	-1.1587	0.9322
KA, SEG =	1	40	1.1569	0.9297	1.5554	1.1857	1.5242	1.2333	1.1302	0.9705
KA, SEG =	2	40	1.1559	-0.9297	1.5544	-1.1857	1.5232	-1.2333	1.1292	-0.9705
KA, SEG =	3	40	-1.1559	-0.9297	-1.5544	-1.1857	-1.5232	-1.2333	-1.1292	-0.9705
KA, SEG =	4	40	-1.1549	0.9297	-1.5534	1.1857	-1.5222	1.2333	-1.1282	0.9705
KA, SEG =	1	41	1.1258	0.9675	1.5198	1.2304	1.4878	1.2774	1.0984	1.0078
KA, SEG =	2	41	1.1248	-0.9675	1.5188	-1.2304	1.4868	-1.2774	1.0974	-1.0078
KA, SEG =	3	41	-1.1248	-0.9675	-1.5188	-1.2304	-1.4868	-1.2774	-1.0974	-1.0078
KA, SEG =	4	41	-1.1238	0.9675	-1.5178	1.2304	-1.4858	1.2774	-1.0964	1.0078
KA, SEG =	1	42	1.0935	1.0044	1.4829	1.2740	1.4501	1.3206	1.0655	1.0442
KA, SEG =	2	42	1.0925	-1.0044	1.4819	-1.2740	1.4491	-1.3206	1.0645	-1.0442
KA, SEG =	3	42	-1.0925	-1.0044	-1.4819	-1.2740	-1.4491	-1.3206	-1.0645	-1.0442
KA, SEG =	4	42	-1.0915	1.0044	-1.4809	1.2740	-1.4481	1.3206	-1.0635	1.0442
KA, SEG =	1	43	1.0601	1.0403	1.4447	1.3167	1.4111	1.3628	1.0313	1.0796
KA, SEG =	2	43	1.0591	-1.0403	1.4437	-1.3167	1.4101	-1.3628	1.0303	-1.0796
KA, SEG =	3	43	-1.0591	-1.0403	-1.4437	-1.3167	-1.4101	-1.3628	-1.0303	-1.0796
KA, SEG =	4	43	-1.0581	1.0403	-1.4427	1.3167	-1.4091	1.3628	-1.0293	1.0796
KA, SEG =	1	44	1.0254	1.0752	1.4052	1.3582	1.3708	1.4036	0.9960	1.1140
KA, SEG =	2	44	1.0244	-1.0752	1.4042	-1.3582	1.3698	-1.4036	0.9950	-1.1140
KA, SEG =	3	44	-1.0244	-1.0752	-1.4042	-1.3582	-1.3698	-1.4036	-0.9950	-1.1140
KA, SEG =	4	44	-1.0234	1.0752	-1.4032	1.3582	-1.3688	1.4036	-0.9940	1.1140
KA, SEG =	1	45	0.9898	1.1091	1.3644	1.3988	1.3292	1.4434	0.9595	1.1474
KA, SEG =	2	45	0.9888	-1.1091	1.3634	-1.3988	1.3282	-1.4434	0.9585	-1.1474
KA, SEG =	3	45	-0.9888	-1.1091	-1.3634	-1.3988	-1.3282	-1.4434	-0.9585	-1.1474
KA, SEG =	4	45	-0.9878	1.1091	-1.3624	1.3988	-1.3272	1.4434	-0.9575	1.1474