

Some calculations for nominal cell arrangement													
						32's	1	32					
Rin	265						2	64					
Rout	800						3	96					
R first	287						4	128					
cell height inner	10						5	160					
cell height outer	13.1						6	192					
nominal max width	19.7						7	224					
							8	256					
total inner cells	1600	target					9	288					
total inner cells	2048	actual											
total cells	8064												
Length	2700	mm											
BaBar sense wires	260.4	782.6											
BaBar envelope	239	809	see BaBar Nim paper Fig 28										
SL	Layer	Rnom at endplate	Ncells	Width inner	width outer	Stereo shift cells	dphi	delta mm	stereo angle mrad	Rmin sense	dR	Separation at center	Separation at endplate
0	0	287.0	160	11.0	11.5	0	0.000	0.0	0.0	287.0	0.0		
	1	297.0	160	11.4	11.9	0	0.000	0.0	0.0	297.0	0.0	10.0	10
	2	307.0	160	11.8	12.3	0	0.000	0.0	0.0	307.0	0.0	10.0	10
	3	317.0	160	12.2	12.7	0	0.000	0.0	0.0	317.0	0.0	10.0	10
1	4	327.0	192	10.5	10.9	0	0.000	0.0	0.0	327.0	0.0	10.0	10
	5	337.0	192	10.8	11.2	0	0.000	0.0	0.0	337.0	0.0	10.0	10
	6	347.0	192	11.1	11.6	0	0.000	0.0	0.0	347.0	0.0	10.0	10
	7	357.0	192	11.5	11.9	0	0.000	0.0	0.0	357.0	0.0	10.0	10
2	8	375.6	160	14.5	15.0	10	0.393	146.6	54.3	368.4	7.2	11.4	18.6
	9	388.7	160	15.0	15.5	-10	-0.393	-151.7	-56.2	381.2	7.5	12.8	13.1
	10	401.8	160	15.5	16.0	10	0.393	156.8	58.0	394.1	7.7	12.8	13.1
	11	414.9	160	16.0	16.6	-10	-0.393	-161.9	-59.9	406.9	8.0	12.8	13.1
3	12	428.0	160	16.6	17.1	10	0.393	167.0	61.8	419.8	8.2	12.8	13.1
	13	441.1	160	17.1	17.6	-10	-0.393	-172.1	-63.7	432.6	8.5	12.8	13.1
	14	454.2	160	17.6	18.1	10	0.393	177.2	65.6	445.5	8.7	12.8	13.1
	15	467.3	160	18.1	18.6	-10	-0.393	-182.3	-67.5	458.3	9.0	12.8	13.1
4	16	480.4	192	15.5	15.9	12	0.393	187.4	69.4	471.2	9.2	12.8	13.1
	17	493.5	192	15.9	16.4	-12	-0.393	-192.6	-71.3	484.0	9.5	12.8	13.1
	18	506.6	192	16.4	16.8	12	0.393	197.7	73.2	496.9	9.7	12.8	13.1
	19	519.7	192	16.8	17.2	-12	-0.393	-202.8	-75.1	509.7	10.0	12.8	13.1
5	20	532.8	192	17.2	17.7	12	0.393	207.9	77.0	522.6	10.2	12.8	13.1
	21	545.9	192	17.7	18.1	-12	-0.393	-213.0	-78.8	535.4	10.5	12.8	13.1
	22	559.0	192	18.1	18.5	12	0.393	218.1	80.7	548.3	10.7	12.8	13.1
	23	572.1	192	18.5	18.9	-12	-0.393	-223.2	-82.6	561.1	11.0	12.8	13.1
6	24	585.2	224	16.2	16.6	14	0.393	228.3	84.5	574.0	11.2	12.8	13.1
	25	598.3	224	16.6	17.0	-14	-0.393	-233.4	-86.4	586.8	11.5	12.8	13.1
	26	611.4	224	17.0	17.3	14	0.393	238.6	88.3	599.7	11.7	12.8	13.1
	27	624.5	224	17.3	17.7	-14	-0.393	-243.7	-90.2	612.5	12.0	12.8	13.1
7	28	637.6	224	17.7	18.1	14	0.393	248.8	92.1	625.3	12.3	12.8	13.1
	29	650.7	224	18.1	18.4	-14	-0.393	-253.9	-94.0	638.2	12.5	12.8	13.1
	30	663.8	224	18.4	18.8	14	0.393	259.0	95.9	651.0	12.8	12.8	13.1
	31	676.9	224	18.8	19.2	-14	-0.393	-264.1	-97.7	663.9	13.0	12.8	13.1
8	32	690.0	256	16.8	17.1	0	0.000	0.0	0.0	690.0	0.0	26.1	13.1
	33	703.1	256	17.1	17.4	0	0.000	0.0	0.0	703.1	0.0	13.1	13.1
	34	716.2	256	17.4	17.7	0	0.000	0.0	0.0	716.2	0.0	13.1	13.1
	35	729.3	256	17.7	18.1	0	0.000	0.0	0.0	729.3	0.0	13.1	13.1
9	36	742.4	256	18.1	18.4	0	0.000	0.0	0.0	742.4	0.0	13.1	13.1
	37	755.5	256	18.4	18.7	0	0.000	0.0	0.0	755.5	0.0	13.1	13.1
	38	768.6	256	18.7	19.0	0	0.000	0.0	0.0	768.6	0.0	13.1	13.1
	39	781.7	256	19.0	19.3	0	0.000	0.0	0.0	781.7	0.0	13.1	13.1