

intensity source from e-mail 6-11-03

athula's code

angle	program 4		program 3		program 2		program 1	
	# shape matrices	beam on time	# shape matrices	beam on time	# shape matrices	beam on time	# shape matrices	beam on time
0	7	180	8	200	7	180	10	380
110	13	420	12	320	9	260	13	460
160	11	400	13	360	12	360	15	480
250	12	380	12	340	12	320	11	300
320	11	320	14	340	13	380	13	380
35	15	600	16	460	18	540	17	620
totals:	69	2300	75	2020	71	2040	79	2620

langer's code level 5

angle	# of shapes (1st run)	# of segments (2nd run)	solve time run 1 (sec)	solve time run 2 (sec)	beam on time	branch&bound nodes	Gap (%)	code: orig	code: modified	#segs after 1 hrs	#segs after 2 hrs
0	7	6	13	156	140	5537	0	yes		6	6
0	7	5	58	4181	140	52008	0		yes	5	5
110	8	7	43	425	160	3341	0	yes		7	7
110	8	6	68	3335	160	10439	40		yes	7	6
160	10	8	16	600	200	4223	30.6	yes		8	8
160	10	8	132	579	200	2146	0		yes	8	8
250	10	7	21	3528	200	2339	41.67	yes		8	7
250	10	7	64	1700	200	2339	53.53		yes	7	7
320	9	8	69	210	180	12977	0	yes		8	8
320	9	7	108	2605	180	11691	0		yes	7	7
35	10	9	17	151	200	266	0	yes		9	9
35	10	9	45	371	200	1143	0		yes	9	9

note that the **original** code has the LC constraints in the first run
the **modified** code has all possible constraints in the first run