

1	Data For Body View		Formulas
2			
3	Enter OAL at Sheer	192.000	Input 192
4	Enter Beam at Sheer	48.000	Input 48
5	Enter Sheer Profile Height At Beam	10.000	Input 10
6	Enter Height of Side Panel at Flare	16.250	Input 16.25
7	Data For Plan View		
8	Sheer Line Width Is	26.000	$\text{SQRT}(\text{C}\$5^2+(\text{C}\$4/2)^2)$
9	Radius of Sheer&Chine is	190.231	$((\text{C}\$3/2)^2+\text{C}\$8^2)/(2*\text{C}\$8)$
10	Sheer Line Angle Is (radians)	0.395	$(\text{ASIN}(\text{C}\$5/\text{C}\$8))$
11	Sheer Line Angle Is (degrees)	22.620	$(\text{ASIN}(\text{C}\$5/\text{C}\$8))/\text{PI}()*180$
12	Sheer Line Width at Station 96"	26.000	$\text{SQRT}(\text{C}\$5^2+(\text{C}\$4/2)^2)$
13	Sheer Line Width at Station 90" (& 102")	25.905	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-6^2)))$
14	Sheer Line Width at Station 84"	25.621	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-12^2)))$
15	Sheer Line Width at Station 78"	25.146	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-18^2)))$
16	Sheer Line Width at Station 72"	24.480	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-24^2)))$
17	Sheer Line Width at Station 66"	23.620	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-30^2)))$
18	Sheer Line Width at Station 60"	22.563	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-36^2)))$
19	Sheer Line Width at Station 54"	21.306	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-42^2)))$
20	Sheer Line Width at Station 48"	19.845	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-48^2)))$
21	Sheer Line Width at Station 42"	18.175	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-54^2)))$
22	Sheer Line Width at Station 36"	16.290	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-60^2)))$
23	Sheer Line Width at Station 30"	14.184	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-66^2)))$
24	Sheer Line Width at Station 24"	11.848	$\text{C}\$8-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-72^2)))$
25	Sheer Line Width at Station 0" & 192"	0.000	
26	Chine Line Width Is	19.229	$1/((\text{COS}(\text{C}\$10)))*(\text{C}\$4/2-(\text{C}\$6*(\text{SIN}(\text{C}\$10))))$
27	Chine Line Width at Station 96"	19.229	$1/((\text{COS}(\text{C}\$10)))*(\text{C}\$4/2-(\text{C}\$6*(\text{SIN}(\text{C}\$10))))$
28	Chine Line Width at Station 90" (& 102")	19.135	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-6^2)))$
29	Chine Line Width at Station 84"	18.850	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-12^2)))$
30	Chine Line Width at Station 78"	18.376	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-18^2)))$
31	Chine Line Width at Station 72"	17.709	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-24^2)))$
32	Chine Line Width at Station 66"	16.849	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-30^2)))$
33	Chine Line Width at Station 60"	15.792	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-36^2)))$
34	Chine Line Width at Station 54"	14.535	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-42^2)))$
35	Chine Line Width at Station 48"	13.074	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-48^2)))$
36	Chine Line Width at Station 42"	11.404	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-54^2)))$
37	Chine Line Width at Station 36"	9.519	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-60^2)))$
38	Chine Line Width at Station 30"	7.413	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-66^2)))$
39	Chine Line Width at Station 24"	5.077	$\text{C}\$26-(\text{C}\$9-(\text{SQRT}((\text{C}\$9^2)-72^2)))$
40	Chine Line Width at End Of Chine	0.000	
41	Chine LineWidth Is	19.229	$1/((\text{COS}(\text{C}\$10)))*(\text{C}\$4/2-(\text{C}\$6*(\text{SIN}(\text{C}\$10))))$
42	Rake Is	7.396	$(\text{TAN}(\text{C}\$10))*(\text{C}\$4/2-(\text{C}\$6*(\text{SIN}(\text{C}\$10))))$
43	Chine Chord Length	6.771	$\text{C}\$8-\text{C}\$41$
44	OAL of Chine Chord	166.688	$2*\text{SQRT}((\text{C}\$9^2)-((\text{C}\$43+\text{C}\$9-\text{C}\$8)^2))$
45	Side Panel Modification Data		
46	Angle At Station 24 (Radians)	0.388	$\text{ASIN}((96-24)/\text{C}\$9)$
47	Angle At Station 24 (Degrees)	22.240	$\text{C}\$46*180/\text{PI}()$
48	Length of Sheer from Station 24 to end	28.975	$1/\text{TAN}(\text{C}\$46)*\text{C}\$24$
49	The New Sheer Chord from Station 24 to end	31.304	$1/\text{SIN}(\text{C}\$46)*\text{C}\$24$
50	The New OAL at Sheer	201.950	$(2*\text{C}\$48)+(\text{C}\$3-48)$
51	Length of Chine From Station 24 to End	12.416	$1/\text{TAN}(\text{C}\$46)*\text{C}\$39$
52	The New Chine Chord from Station 24 to end	13.414	$1/\text{SIN}(\text{C}\$46)*\text{C}\$39$
53	The New OAL at Chine	168.833	$(2*\text{C}\$51)+(\text{C}\$3-48)$
54	Data For Profile View		
55	Sheer Height at Stations -4.975" and 196.975"	0.00	
56	Sheer Height at Station 96"	10.000	$\text{C}\$12*\text{SIN}(\text{C}\$10)$
57	Sheer Height at Station 90"	9.964	$\text{C}\$13*\text{SIN}(\text{C}\$10)$

