

Light Craft for DRB (notes from 24 apr 2013)

20 June 2013

· key points of centrebody	Free stream Air
0,0	M = 5,8
b 285.7, 62.2	Do = 900 hPa
c 333.3, 55.0	To = 560 K
d 347.57, 40.0	Initial gas Air quiescent
e 347.57, 0.0	pinit = 1kPa; Tinit = 300K

o axial distance of 24 mm on Carolyn's coul corresponds to axial distance 285.7 mm on centrebody - 50 add 261.7 mm to coul x-coordinate

		Outer Surface Geometry for Intake			
		Axial Dimension	Radial Dimension	Note	
11. 0		0.0	0.0		
"top of cone .	\rightarrow	Ь 285.7	62.2	Straight	
wrne.		292.1	61.8		
		299.0	60.8		
		305.9	59.7		
		312.8	58.6	First spline	
		319.6	57.4		
		326.5	56.2		
		c 333.3	55.0		
~	_	d 347.57	40.0		
		350.0	37.8		
		370.0	23.79	x	
** **	* *	390.0	14.2	Cocond anline	
		410.0	7.73	Second spline	
		430.0	3.51		
		450.0	1.07		
	L	476.2	0.0		

Point (347.57,40.0) marks the end of the model. Additional spline geometry is given in the table for reference.

Axial Location of Transducer Threads		
1	231.62	
2	251.16	
3	270.70	
4	301.33	
5	321.06	