

OFI Blade Balance
12/13/2012

CG of optics table XCGT, in -0.831
 CG of optics table YCGT, in -0.082 old new
 weight of optics table CGT, lbs 24.974 24.83 24.974
 axial position of blade SX, in 2.871
 transverse position of blade SY, in 3.308

loaded vertical blade displacement, m	0.0935						
g, m/s ²	9.8						
S/N		Blade Balance Weight, kg	Blade Balance Weight, lbs	measured thickness, in	new thickness, in		
1		6.60	14.55	0.0705			
2		6.55	14.44	0.0707			
3		6.75	14.88	0.0704			
4		6.65	14.66	0.0704			
5		6.45	14.22	0.0705			
6		6.45	14.22	0.0703			
7		6.50	14.33	0.0705			
8		6.00	13.23	0.0705			
9		6.45	14.22	0.0705			
10		6.35	14.00	0.0705			
11		6.50	14.33				
12		6.80	14.99				
new blade 13		6.35	14.00		0.0705		

Blade pairs	S/N	Blade Balance Weight, kg	Blade Balance Weight, lbs	x-offset from mounting bolt, in	XCW1, in	YCW1, in	XCW2, in
1 1st article	11	6.50	14.33	-0.276	-7.40	0.03	7.56
	7	6.50	14.33				
2 LLO	5	6.45	14.22	0.374	-6.75	0.02	7.56
	9	6.45	14.22				
3 LHO	4	6.65	14.66	0.000	-7.13	0.01	7.56
	1	6.60	14.55				
5 H2	2	6.55	14.44	0.000	-7.13	0.03	7.56
	6	6.45	14.22				
6 spare	12	6.80	14.99	0.294	-6.83	0.01	7.56
	3	6.75	14.88				

not used 4	10	6.35	14.00	0.000	-7.13	0.04	7.56
new blade	13	6.35	14.00				

note: place the stiffest blade on the input side of OFI

counter weights 1/4-20

counter weights 8-32

Blade pairs	S/N	Blade Suspended Weight, kg	Blade Suspended Weight, lbs	x-offset of CW1 from mounting bolt, in	CW1, lbs	y-offset of CW2 from mounting bolt, in	CW2, lbs
1, 1st article	11	6.50	14.33	-0.276	0.50	0.717	3.25
	7	6.50	14.33				
2, LLO	5	6.45	14.22	0.374	0.50	0.770	3.00
	9	6.45	14.22				
3, LHO	4	6.65	14.66	0.000	1.00	0.673	3.50
	1	6.60	14.55				
5, H2	2	6.55	14.44	0.000	0.50	0.717	3.25
	6	6.45	14.22				
6, spare	12	6.80	14.99	0.294	1.25	0.635	3.75
	3	6.75	14.88				

