

Z-1 Monochromator

4-29-03
Perry Banuelos

HBL7N
574.74794
575.791
- 41.065 ✓
2.290
57.750
18.975 HI ✓

HRLN035
574.73100
575.791
- 41.732 ✓
2.957
57.750
18.975 ✓

Roll
UP
19.595 19.600
19.601 19.606

Roll OK ✓

1/8 Fl 18.975 1/8 Fl 18.975 / Top 23" Fl 18.975
8.57 * 8.95 *
10.405 10.025 S/R
10.386 9.680

18.02 *
0.955 S/R ✓
1.045
1.001
0.944
0.953 ✓ +002

km
4/30/03

X

10.410
10.407 ✓ +001
u/s p/s
59.055 70.72 *
70.57 * 70.72 *
SI mod
19.570 S/R ✓ 19.720 S/R ✓
19.515 19.540
19.610 19.685
19.600 19.725
19.575 19.728
19.580 19.734
-0.010 ✓ **-0.014** ✓

FLANGES
X -012
Y +002
Z -
Roll -
Pitch +001
Yaw -004

bl 2-1 x-positions

$\alpha_1 \equiv$ bl 2-1 cl wrt bl 2-0 0.162375 radian cl

$\alpha_1 = 0.007013$ radians

<u>bl cl</u>	wrt 2-0 <u>radians</u>	absolute <u>radians</u>
2-0	0.000000	0.162375
2-1	0.007013	0.169388
2-2	0.000095	0.162470
2-3	-0.007297	0.155078

<u>object</u>	<u>z, mm</u>	<u>bl cl</u> <u>x, mm</u>	<u>offset</u> <u>x, mm</u>	<u>x, mm</u>	<u>ref</u>	wrt <u>plugs, mm</u>	wrt <u>plugs, in.</u>
2-1 mono us 23" flg	22,724.3	-159.37	-133.10	-292.47	ssrl	1792.47	70.57
2-1 mono center (ref)	23,001.4	-161.31					
2-1 mono ds 23" flg	23,278.5	-163.26	-133.10	-296.35	ssrl	1796.35	70.72

bl 2-1 y-positions

m0 2 θ = 0.014870 radians
 m0 location = 11,860.0 mm

<u>object</u>	<u>z, mm</u>	<u>Δz, mm</u>	<u>bl cl</u> <u>Δy, mm</u>	<u>off set</u> <u>Δy, mm</u>	<u>Δy, mm</u>	<u>Δy, in.</u>
2-1 mono us flange*	22,680.7	10,820.7	160.90	56.77	217.67	8.57
2-1 mono ds flange*	23,322.1	11,462.1	170.44	56.77	227.21	8.95
2-1 mono center (ref)	23,001.4	11,141.4	165.67	292.10	457.77	18.02

0.014870

* 4.5" flange top