


MEMORANDUM

To: Cuyler Feagles, AIA
City of Portland

Copy: Roy Williams, City of Portland(email)
Jim Stanislaski, Gensler. (email)
Cliff Takara, Gensler (email)
Lacey Fogg, AMEC (email)
Mike Fusco, Turner Construction Company (email)
Geoff Mitchell, Turner Construction Company (email)

From: Matthew T. Grady, P.E. 

Robert W. Gillespie, P.E.
R.W. Gillespie & Associates, Inc.

Date: 17 November 2010

Subject: Floor Flatness Testing Slab #10
Terminal Enhancement, Portland International Jetport
Portland, Maine
RWG&A Project No. 557-14

R.W. Gillespie & Associates, Inc., (RWG&A) is submitting the attached information for owner review and approval. On 22 October 2010, RWG&A subcontracted F-Number Testing of New Ipswich, New Hampshire to perform floor flatness testing on Slab #10, section 4-5 at the subject project.

Attached is a letter report along with individual survey line floor profile data from F-Number Testing. Floor flatness testing was performed in accordance with ASTM 1155-96 and ACI 117 using the Dipstick Auto Read Profiler. Specifications require overall FF value of 40 and overall FL value of 20 for the test surface. It is our understanding that the overall FL value is not enforceable on unshored elevated slabs. The following is a summary of the test results:

<u>Placement Date</u>	<u>Date of Testing</u>	<u>Slab #</u>	<u>Section</u>	<u>FF Value</u>	<u>FL Value</u>	<u>Unshored Elev. Slab</u>
10/20/10	10/22/10	10	4-5	54.60	33.54	Yes

Results meet specification. If you have any questions, please contact us.

Encl: Location & Date of Floor Flatness Testing Sketches - Level 4
F-Number Testing Report dated 22 October 2010 - Slab #10

MTG/RWG:md

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R. W. Gillespie & Associates, Inc.

Geotechnical Engineering • Geohydrology • Materials Testing Services

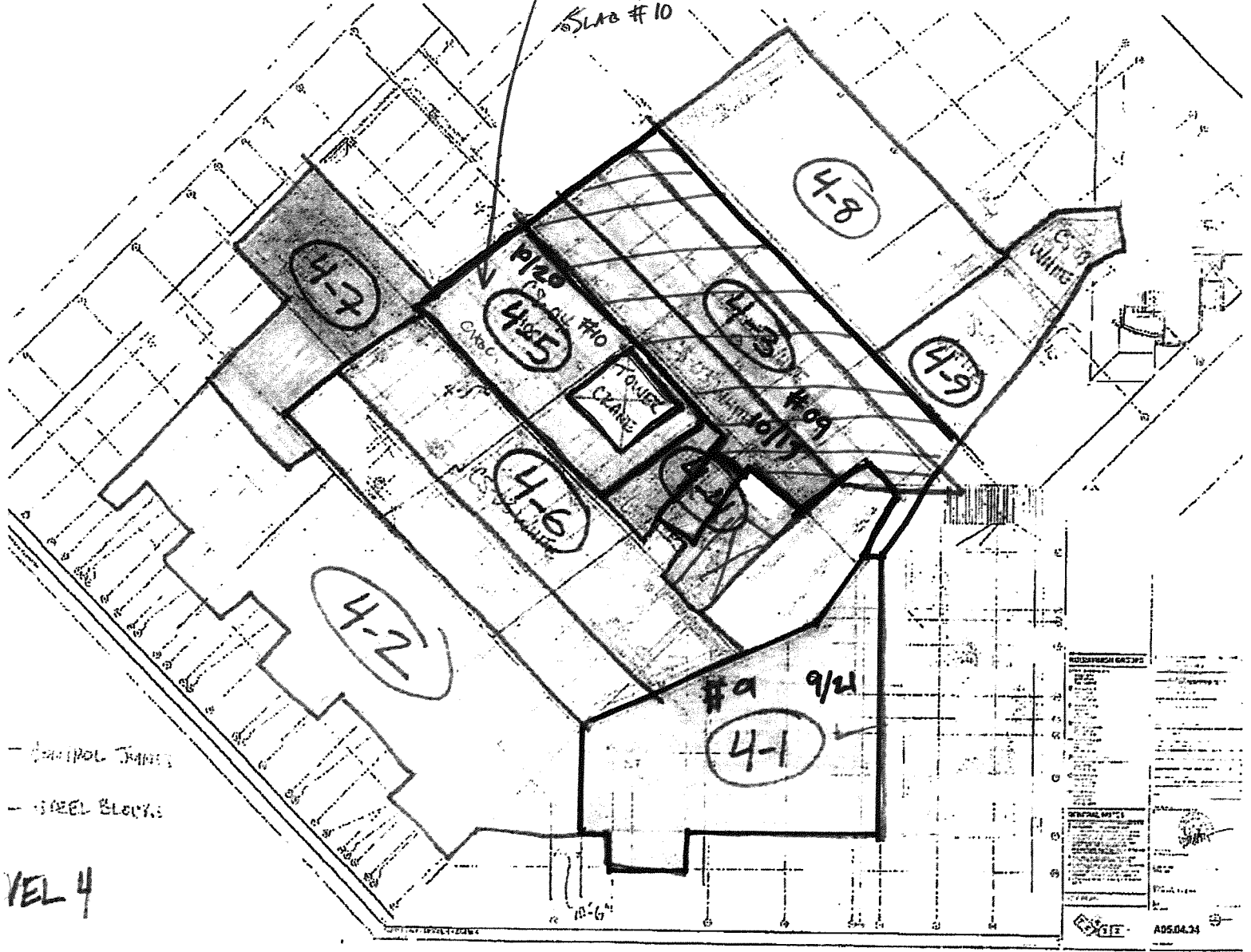
Corporate Office

200 International Dr., Ste 170
Portsmouth, NH 03801
603-427-0244 • Fax 603-430-2041

86 Industrial Park Rd., Ste 4
Saco, ME 04072
207-286-8008 • Fax 207-286-2882

P.O. Box 289
Augusta, ME 04344
207-623-4914 • Fax 207-623-3429

SECTION 4-5 PLACED ON 10/20/10
LAB #10



- CONTROL TRAYS
- STEEL BLOCKS

VEL 4

PROJECT: PORTLAND SEAPORT - TERMINAL
ENHANCEMENT

PROJECT NO: 557-14

LOCATION OF FLOOR FLATNESS
TESTING

11/12/10

F - NUMBER TESTING

surface flatness/levelness

a division of Earl R. Somero & Associates, Inc.

October 29, 2010

RECEIVED
NOV 12 2010

Mr. Mathew Grady
R W Gillespie & Associates, Inc.
86 Industrial Park Road, Suite 4
Saco, ME 04072

Slab #10
Level 4, SECTION 4-5
Col lines XF-XL & Z6-Z3
PROJECT: 557-14

RE: F-Number Tolerance Testing
Portland Jetport, Portland, ME

Dear Mr. Grady:

The purpose of this letter is to notify you of the F-Number test results for the above referenced slabs. The floor slabs were tested in accordance with the provisions set forth in ASTM-1155-96 and ACI 117 Standard using the DIPSTICK AUTO-READ PROFILER. This slab was placed on Wednesday, October 20, 2010, and tested on Friday, October 22, 2010.

SPECIFICATIONS: Floors shall conform to the following surface profile tolerances:

POLISHED FLOORS (COLORED CONCRETE) FF: 40 FL:

RANDOMLY TRAFFICKED FLOOR SURFACE:

Specified Overall FF Value: 25	Specified Overall FL Value: 20
Minimum Local FF Value: 17	Minimum Local FL Value: 15

TEST SECTION RESULTS FOR SLAB #10 (COLORED CONCRETE)

The overall FF value is 54.60, with a 90% Confidence Interval <51.48-57.72>
which is ABOVE the Specified Overall Value.

The overall FL value is 33.54, with a 90% Confidence Interval <31.38-35.70>
which is not enforceable on unshored elevated slabs

Mr. Mathew Grady
R W Gillespie & Associates, Inc,
Jetport, Portland, ME – Slab #10
October 29, 2010
Page 2

Individual survey lines are as follows:

LINE #	FF #	FL #	Rdgs	LINE #	FF #	FL #	Rdgs
10ACR1	46.40	28.56	26	10UP05	51.38	26.38	41
10ACR2	56.79	36.51	41	10UP06	59.12	32.50	41
10ACR3	64.50	27.30	41	10UP07	46.30	52.70	41
10ACR4	69.96	40.67	41	10UP08	50.71	51.00	26

Number of Readings required: 159 Actual: 298

Please do not hesitate to call if you have any questions.

Sincerely yours,



Earl R. Somero
F-Number Testing

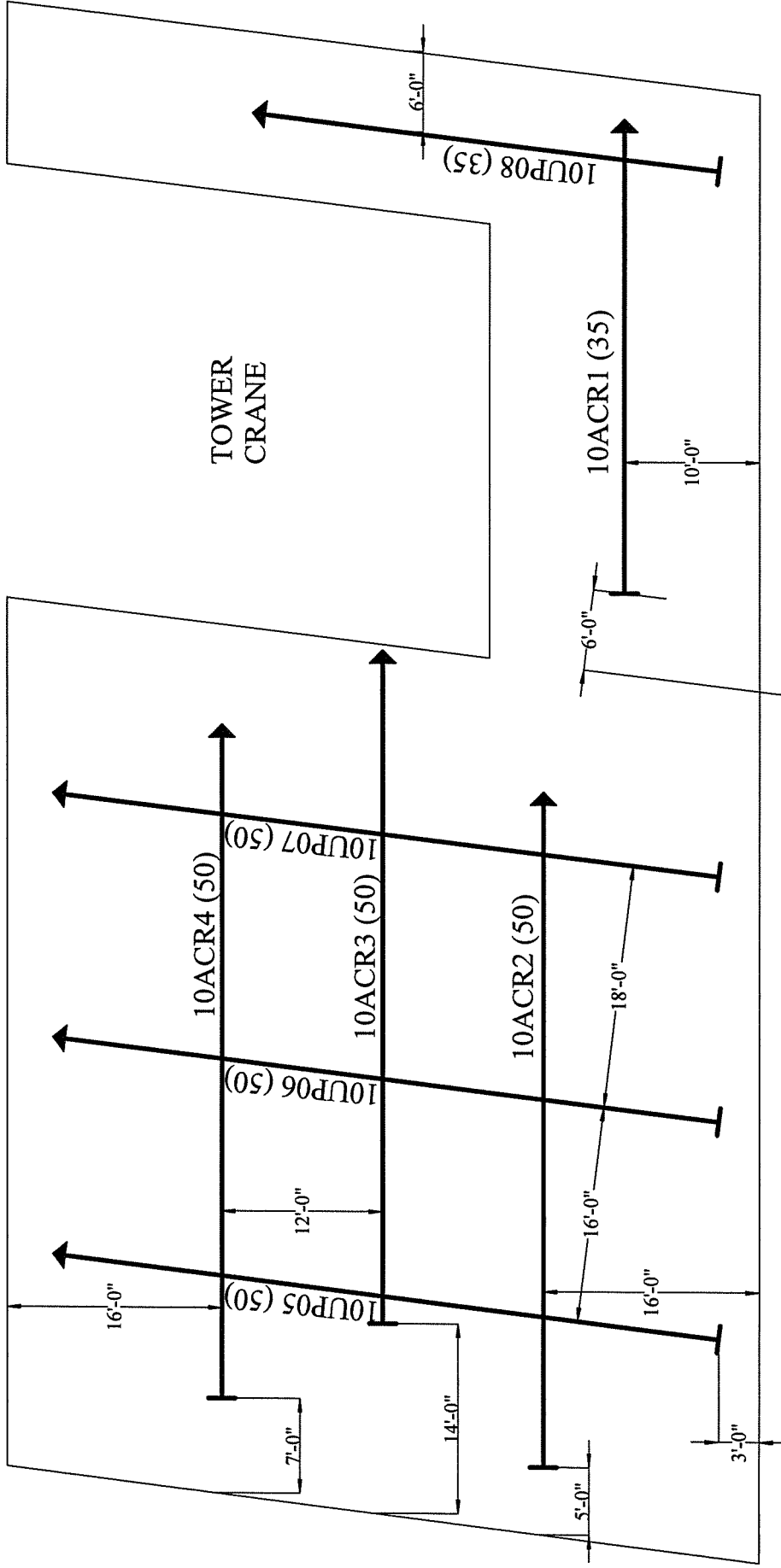
Z6

Z5

Z4

Z3

XF



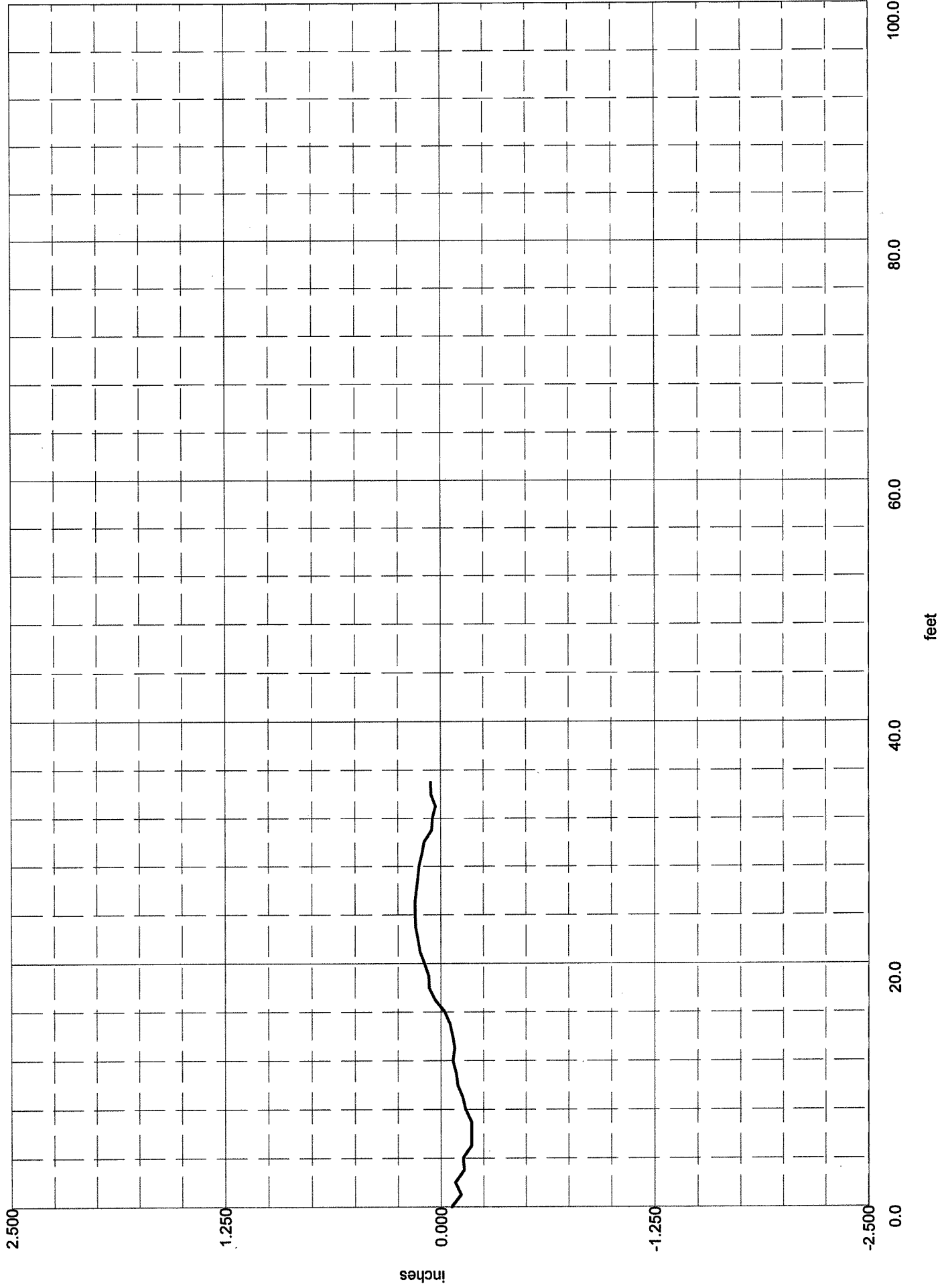
XL

JETPORT
 PORTLAND, ME
 SLAB #10
 LEVEL 4

SECTION 4-5

Earl R. Somero
 F. NUMBER TESTING
 PO Box 486 New Ipswich, NH 03071
 603-878-1634

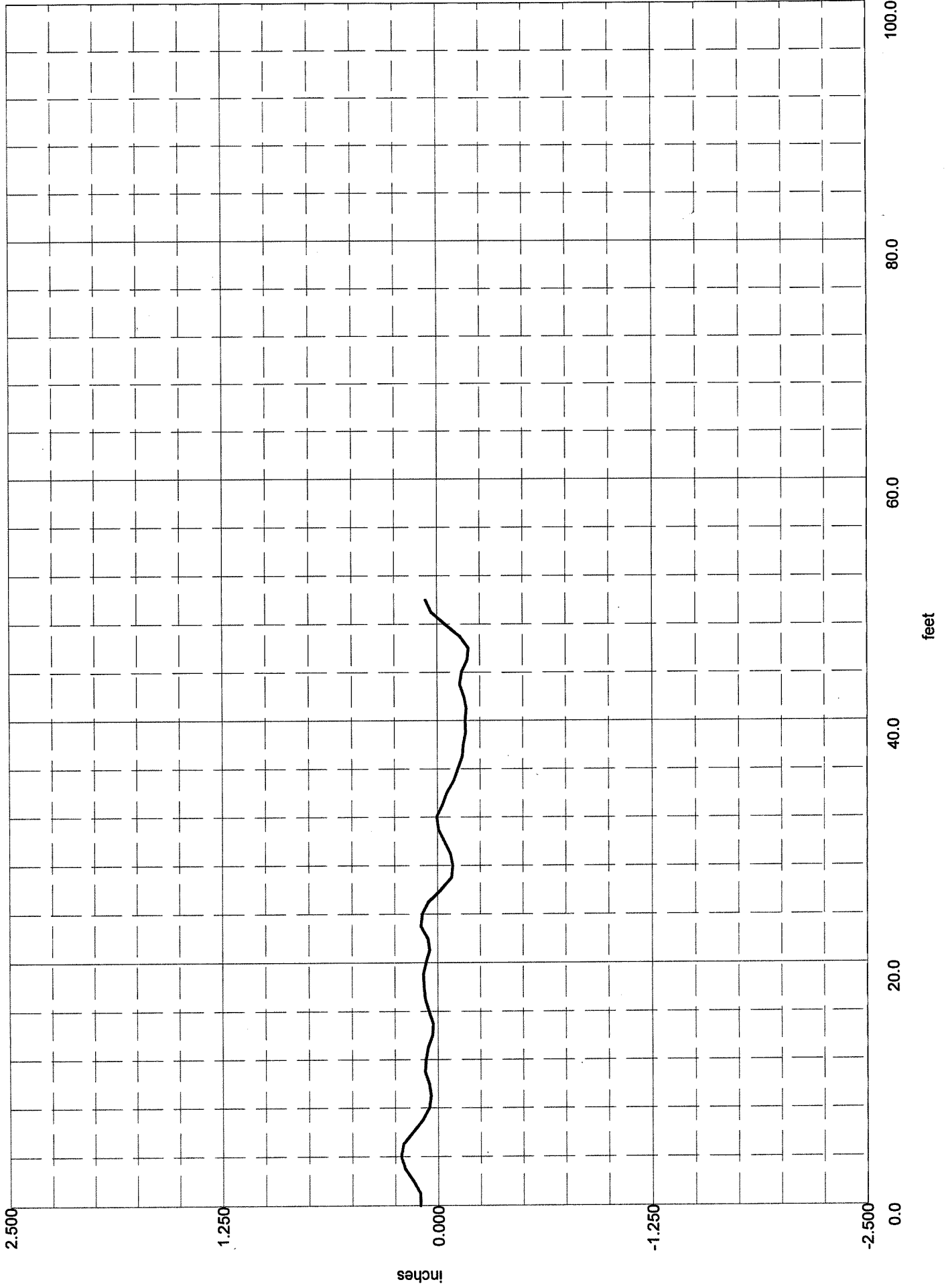
JETPORT PORTLAND10 10ACR1



F-NUMBER TESTING

FF = 46.4 <36.6 - 56.2> FL = 28.6 <21.5 - 35.7>

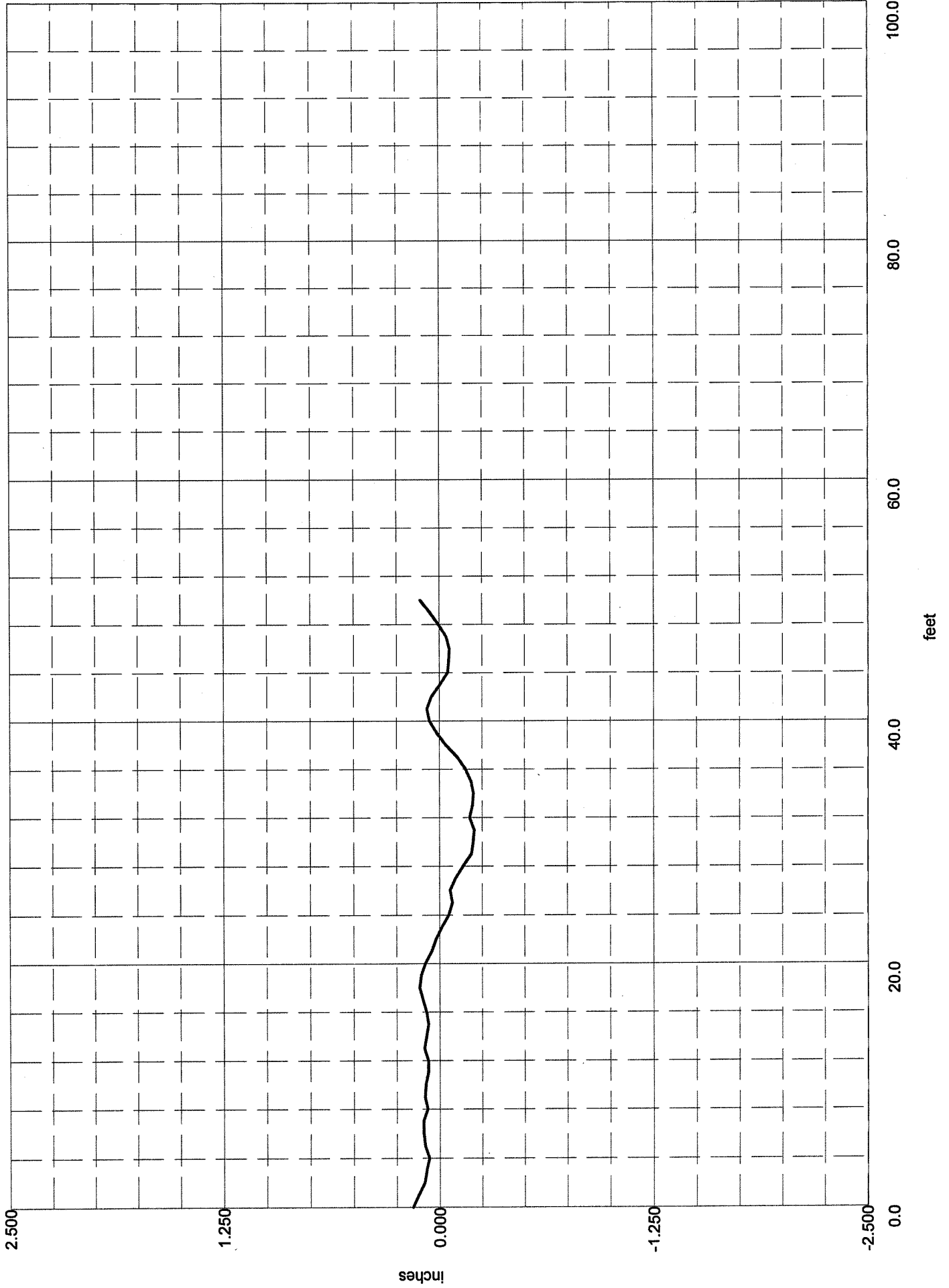
JETPORT PORTLAND10 10ACR2



F-NUMBER TESTING

FF = 56.8 <46.7 - 66.8> FL = 36.5 <29.3 - 43.7>

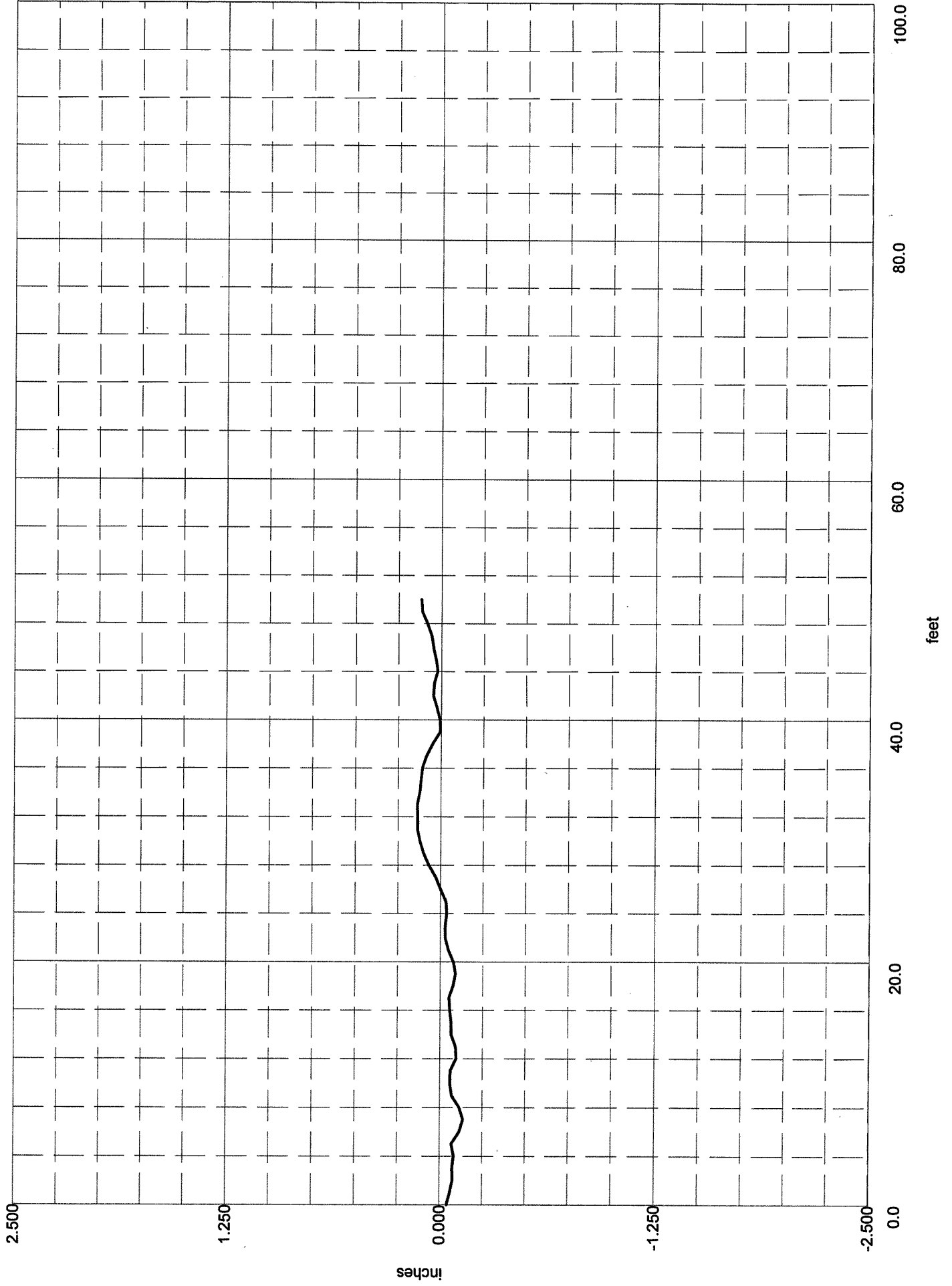
JETPORT PORTLAND10 10ACR3



F-NUMBER TESTING

FF = 64.5 <53.1 - 75.9> FL = 27.3 <21.9 - 32.7>

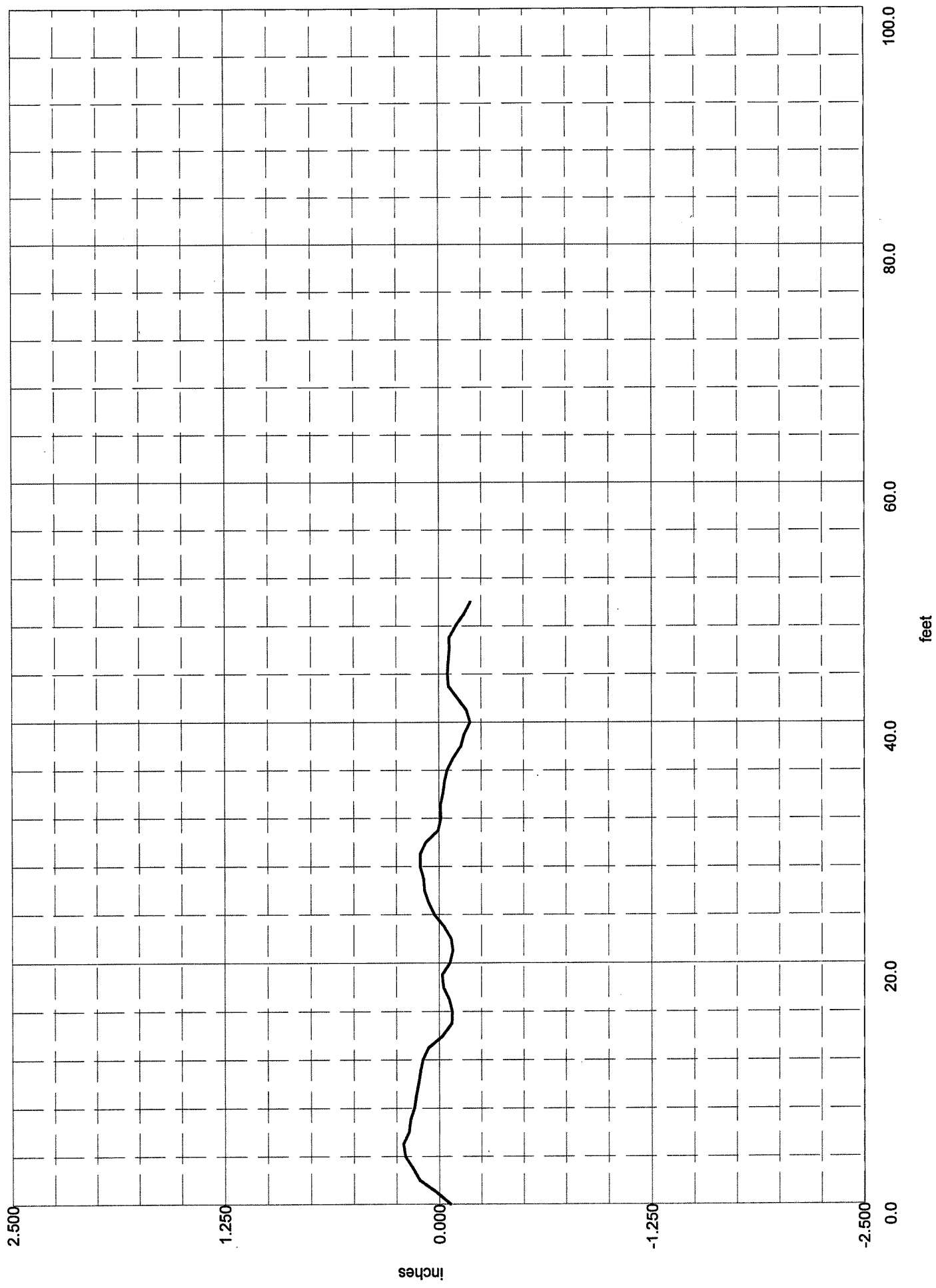
JETPORT PORTLAND10 10ACR4



F-NUMBER TESTING

FF = 70.0 <57.6 - 82.3> FL = 40.7 <32.6 - 48.7>

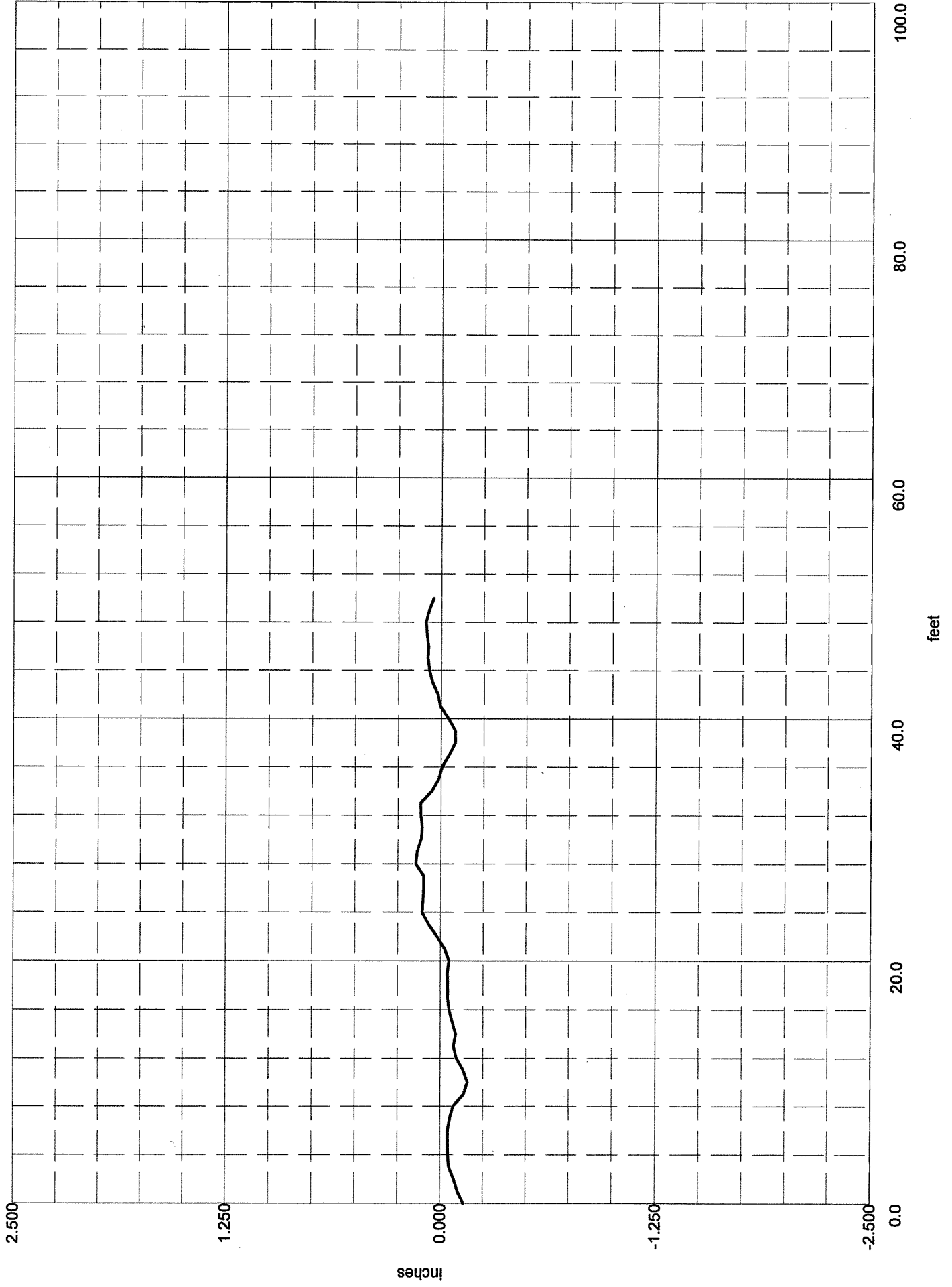
JETPORT PORTLAND10 10UP05



F-NUMBER TESTING

FF = 51.4 <42.3 - 60.5> FL = 26.4 <21.2 - 31.6>

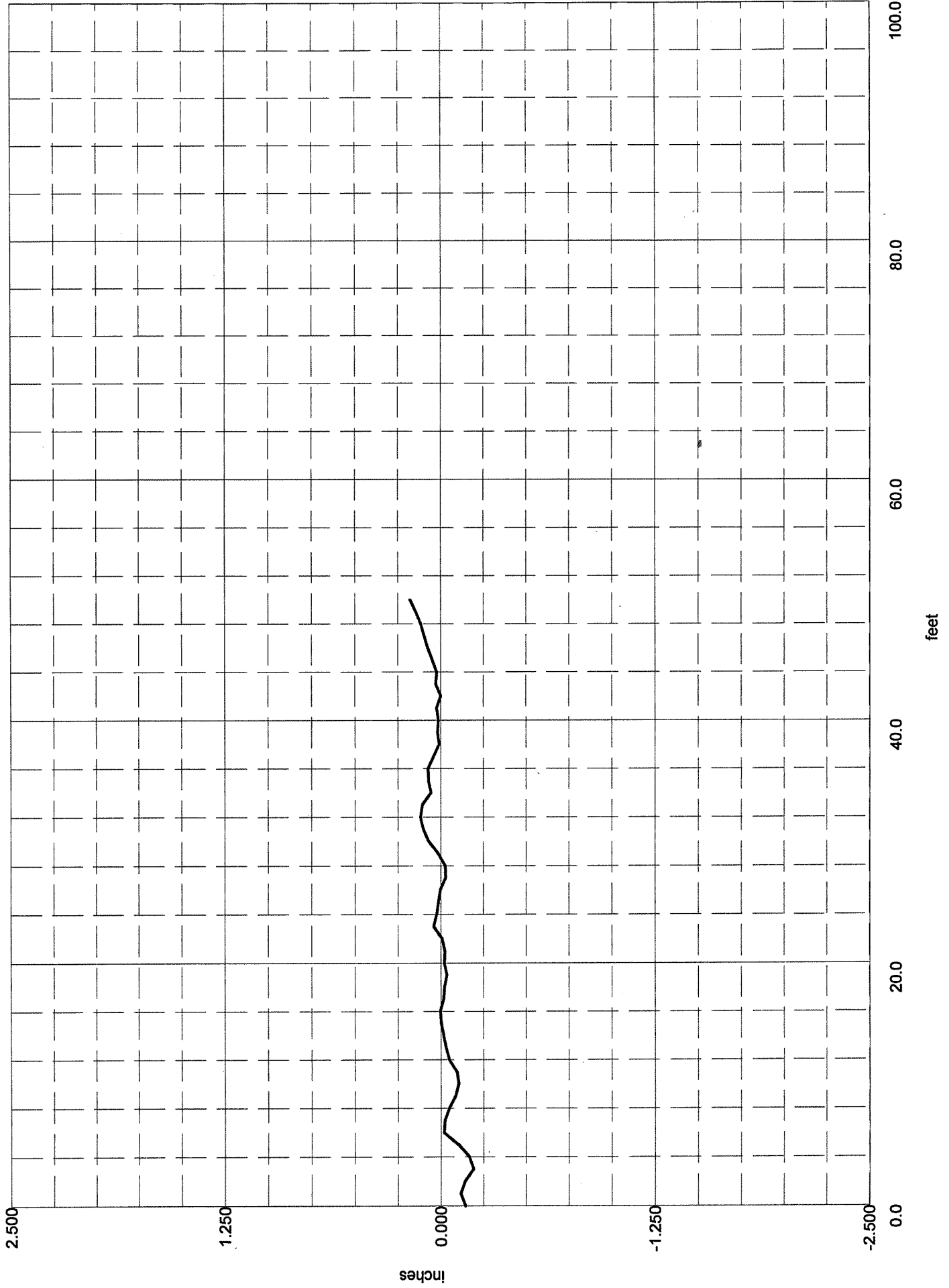
JETPORT PORTLAND10 10UP06



F-NUMBER TESTING

FF = 59.1 <48.7 - 69.6> FL = 32.5 <26.1 - 38.9>

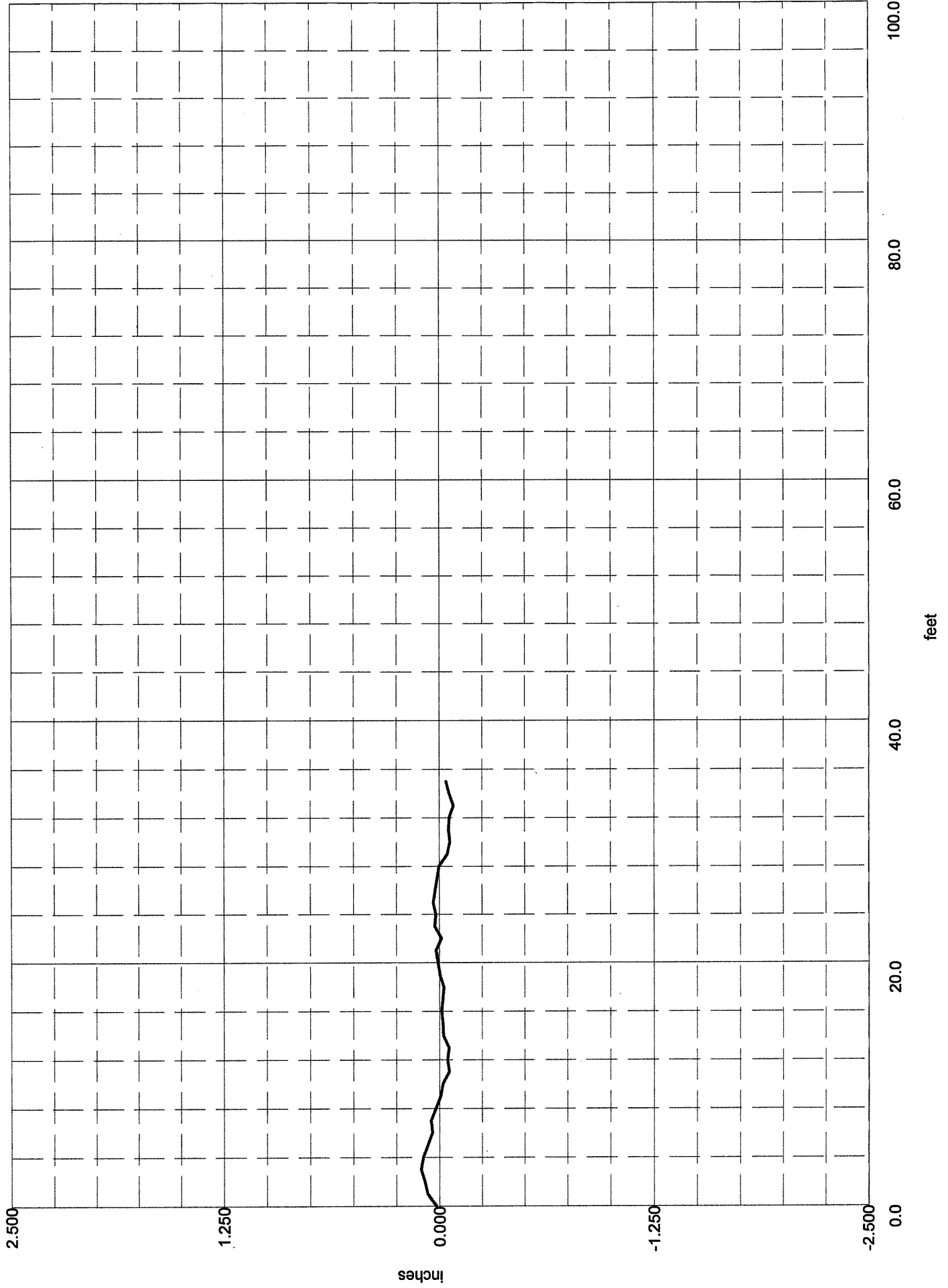
JETPORT PORTLAND10 10UP07



F-NUMBER TESTING

FF = 46.3 <38.1 - 54.5> FL = 52.7 <42.3 - 63.2>

JETPORT PORTLAND10 10UP08



F-NUMBER TESTING

FF = 50.7 <40.0 - 61.5> FL = 51.0 <38.3 - 63.7>