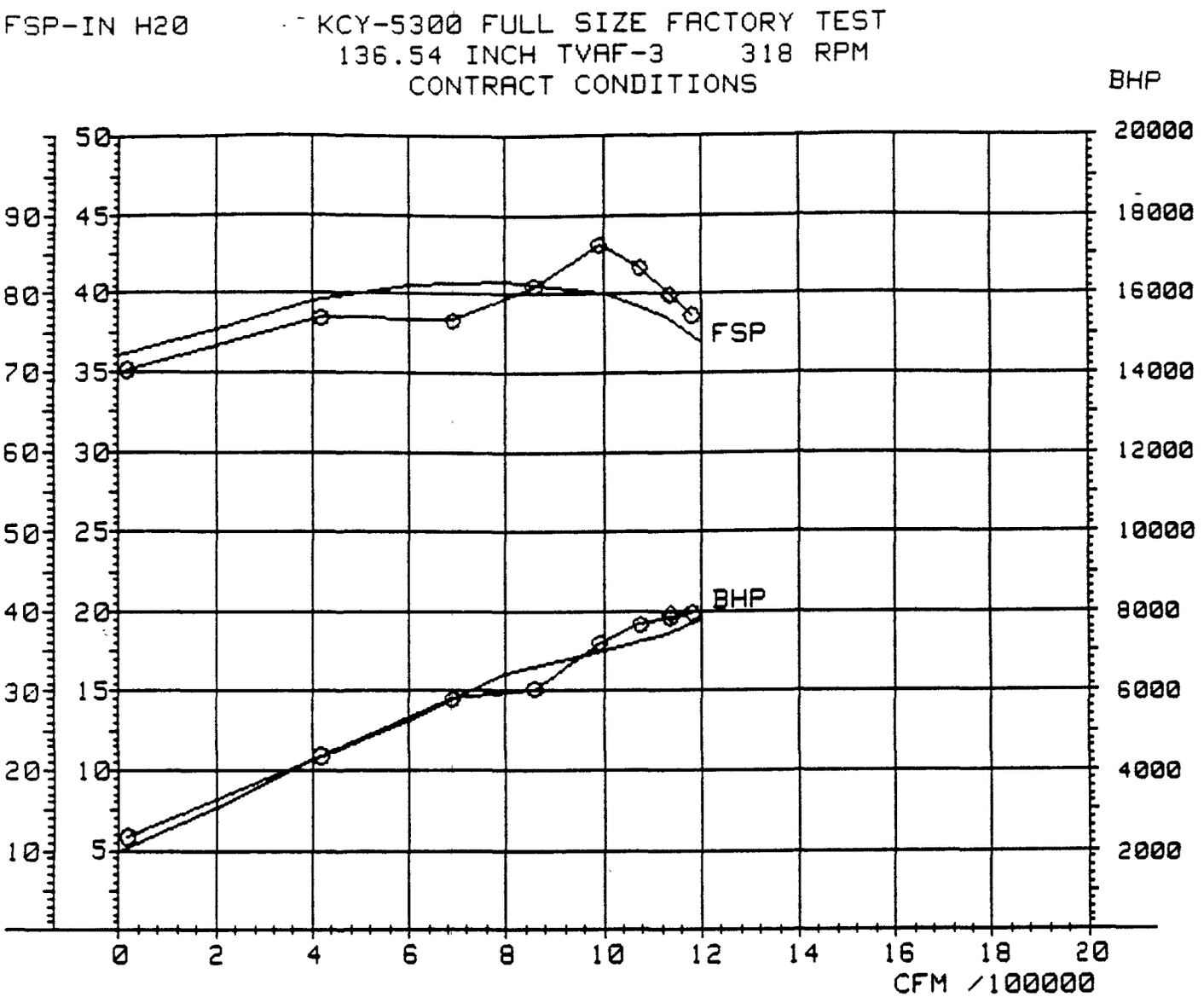


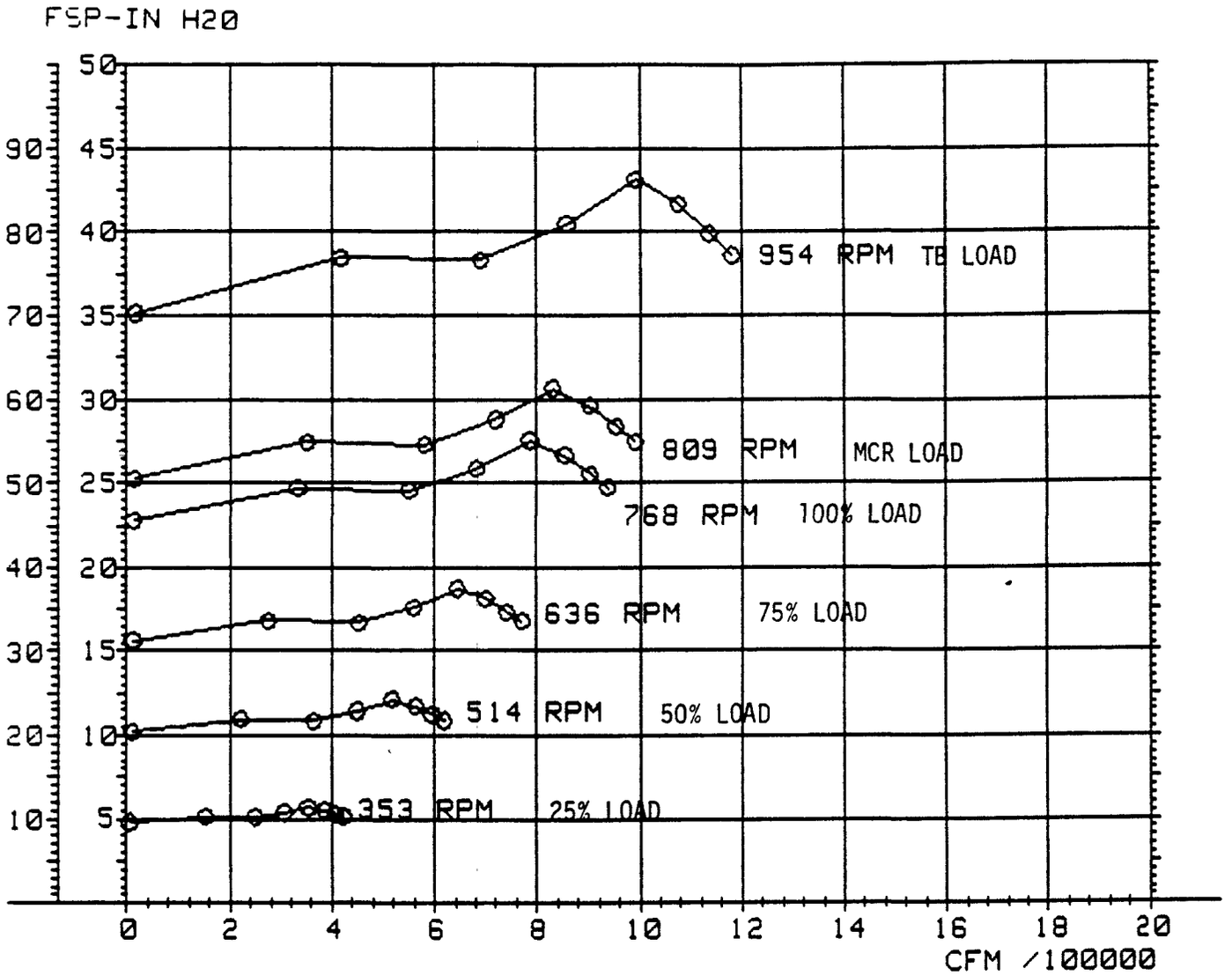
DIAMOND = SPECIAL WITNESSED POINT FOR EXTRA INLET TEMPERATURES.

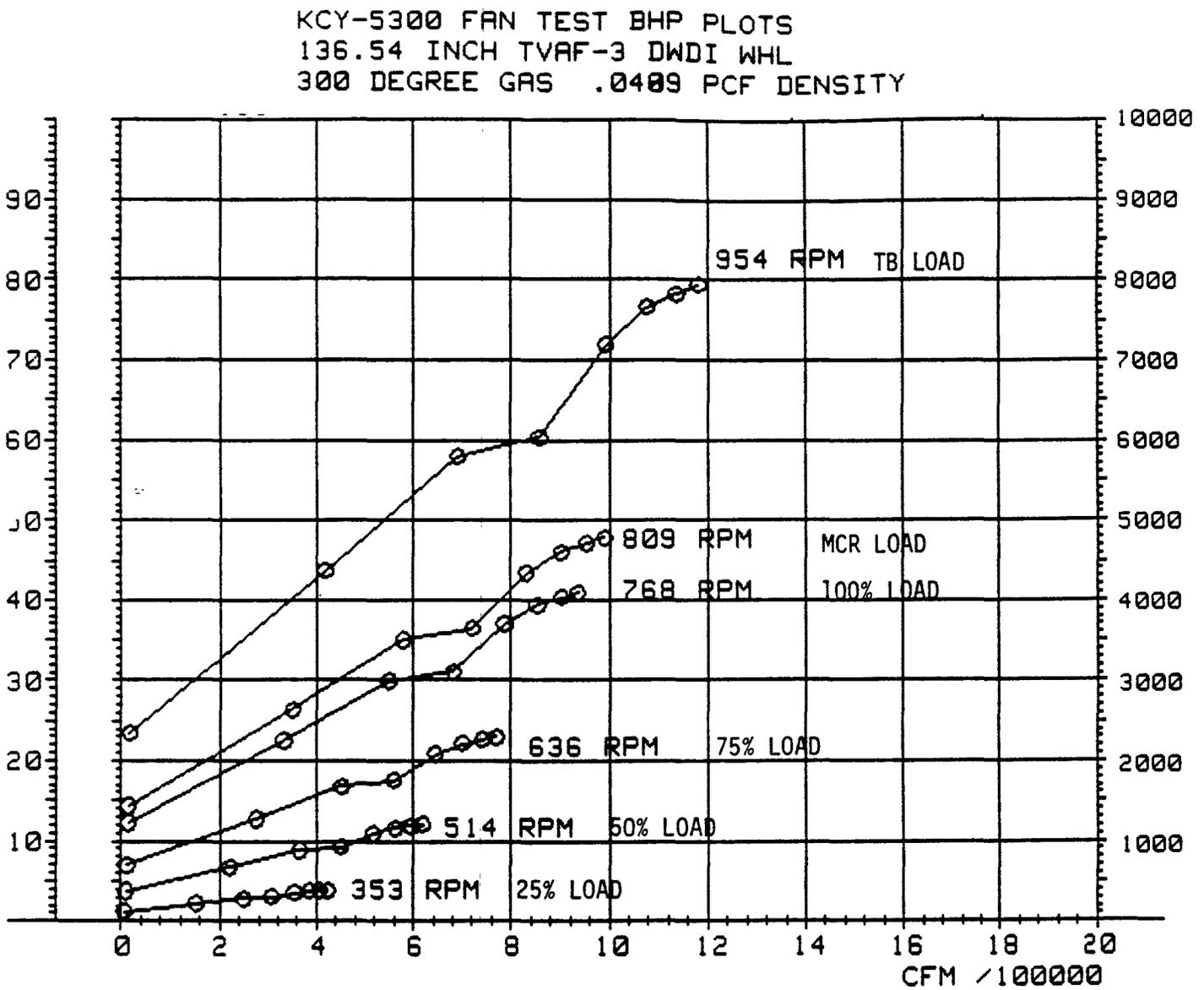
CIRCLE = FULL SIZE FACTORY TEST POINTS.

NO SYMB.= CONTRACT CURVE

IP7_039099

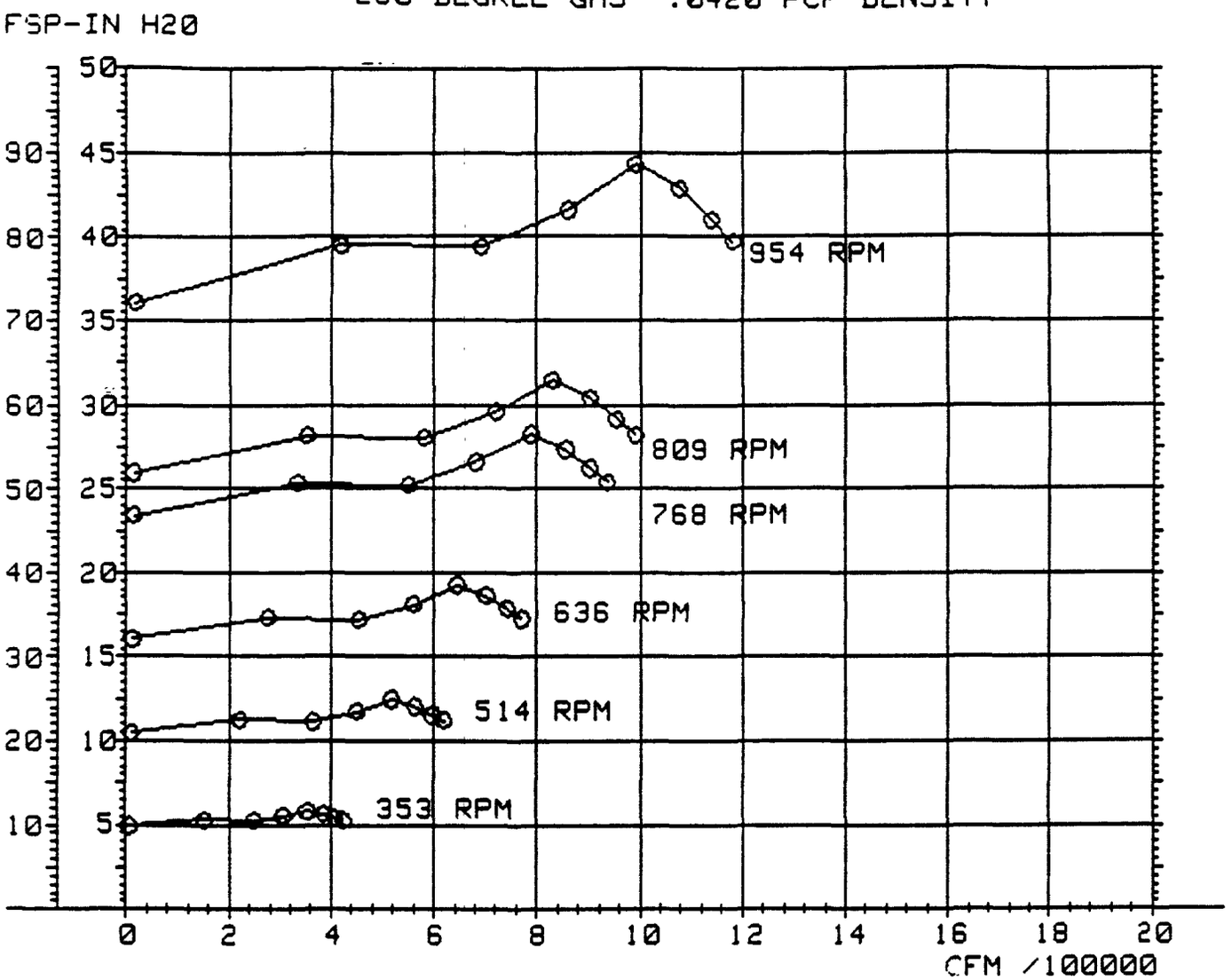
KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI WHL
300 DEGREE GAS .0409 PCF DENSITY




KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI WHL
300 DEGREE GAS .0409 PCF DENSITY
954 RPM TB LOAD
809 RPM MCR LOAD
768 RPM 100% LOAD
636 RPM 75% LOAD
514 RPM 50% LOAD
353 RPM 25% LOAD
CFM /100000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
90
80
70
60
50
40
30
20
10
0
2
4
6
8
10
12
14
16
18
20

IP7_039101

KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI WHL
280 DEGREE GAS .0420 PCF DENSITY



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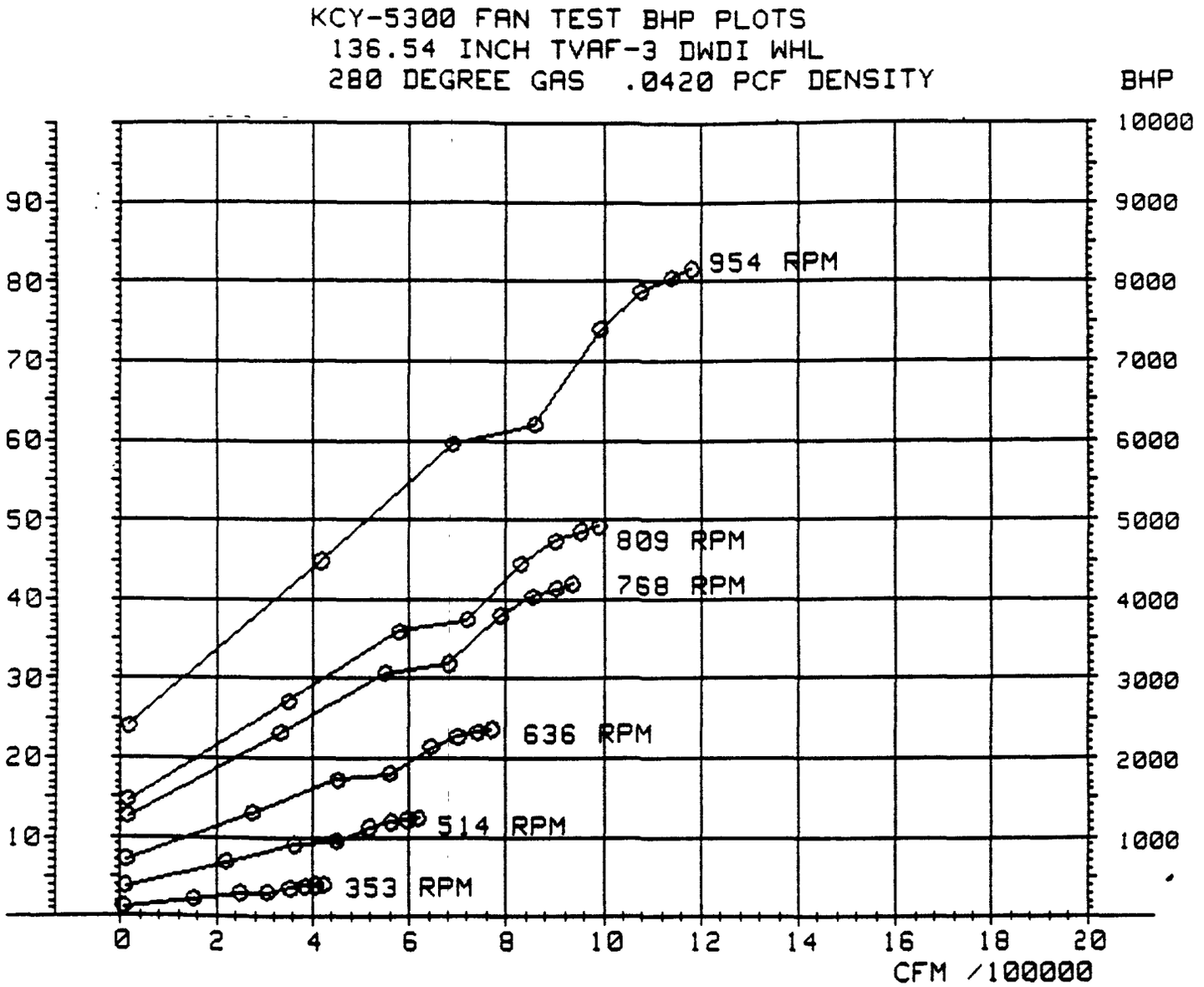
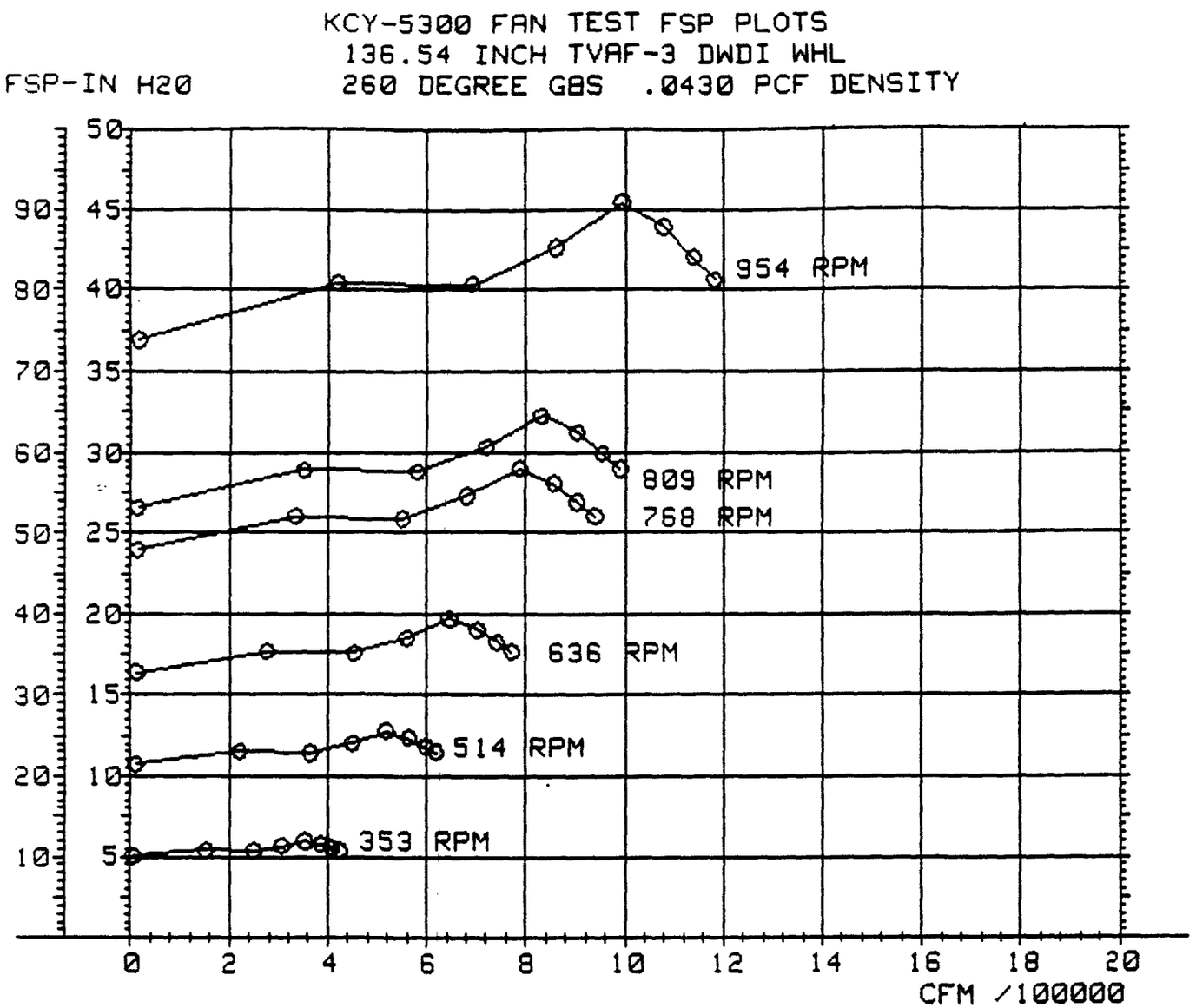
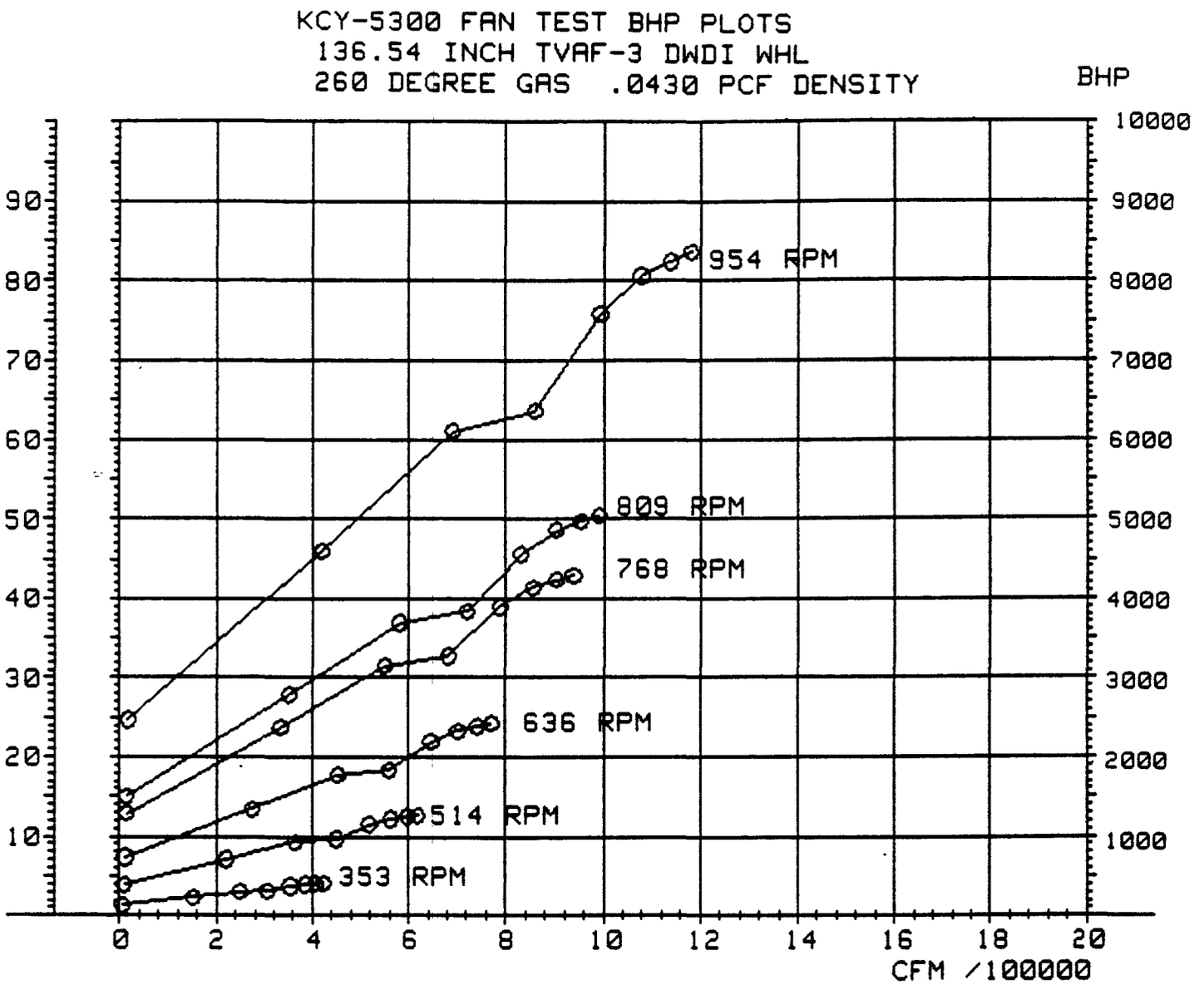
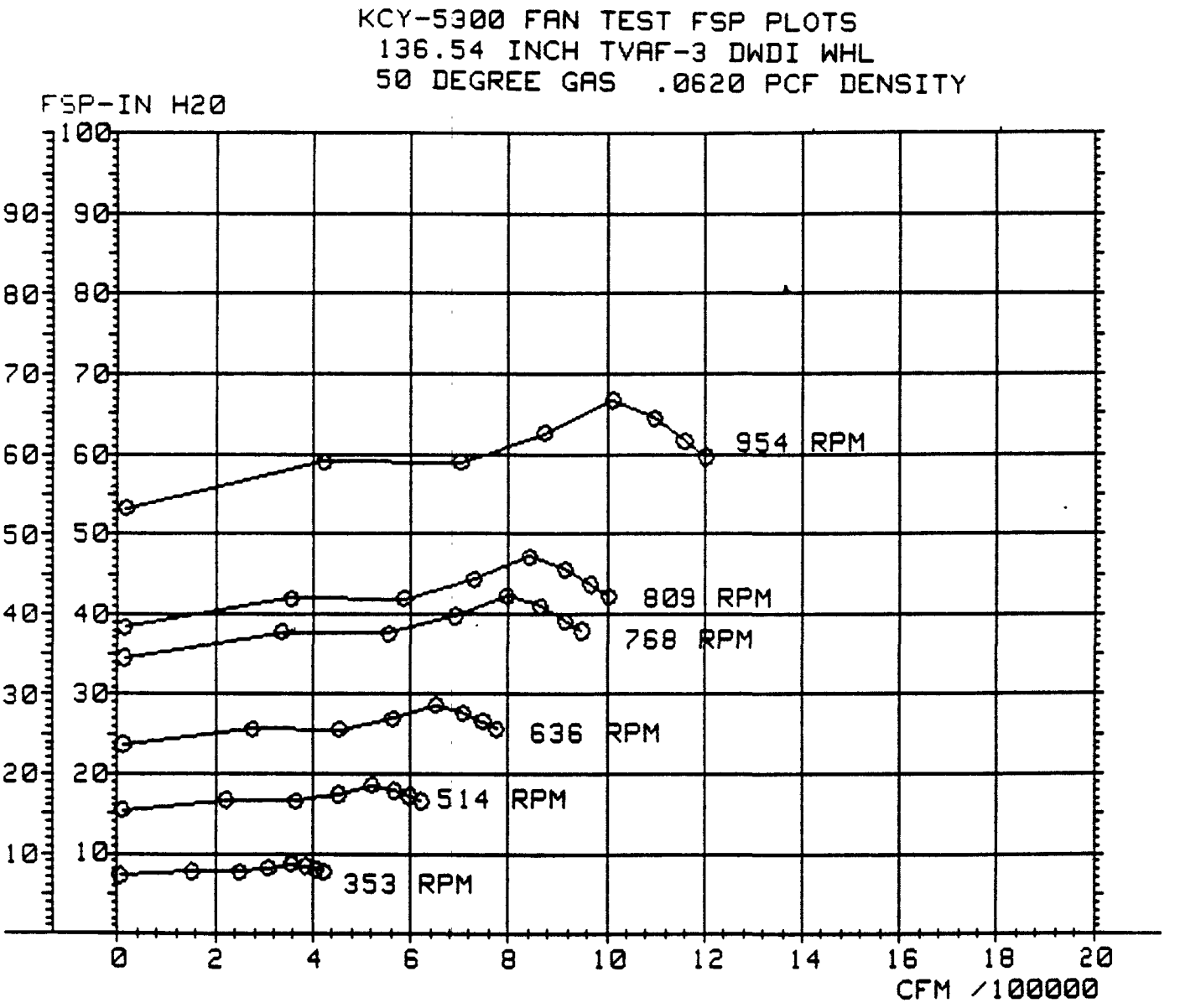

KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI WHL
280 DEGREE GAS .0420 PCF DENSITY
BHP
954 RPM
809 RPM
768 RPM
636 RPM
514 RPM
353 RPM
CFM /100000

IP7_039103


KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI WHL
260 DEGREE GAS .0430 PCF DENSITY
FSP-IN H20
954 RPM
809 RPM
768 RPM
636 RPM
514 RPM
353 RPM
CFM /100000

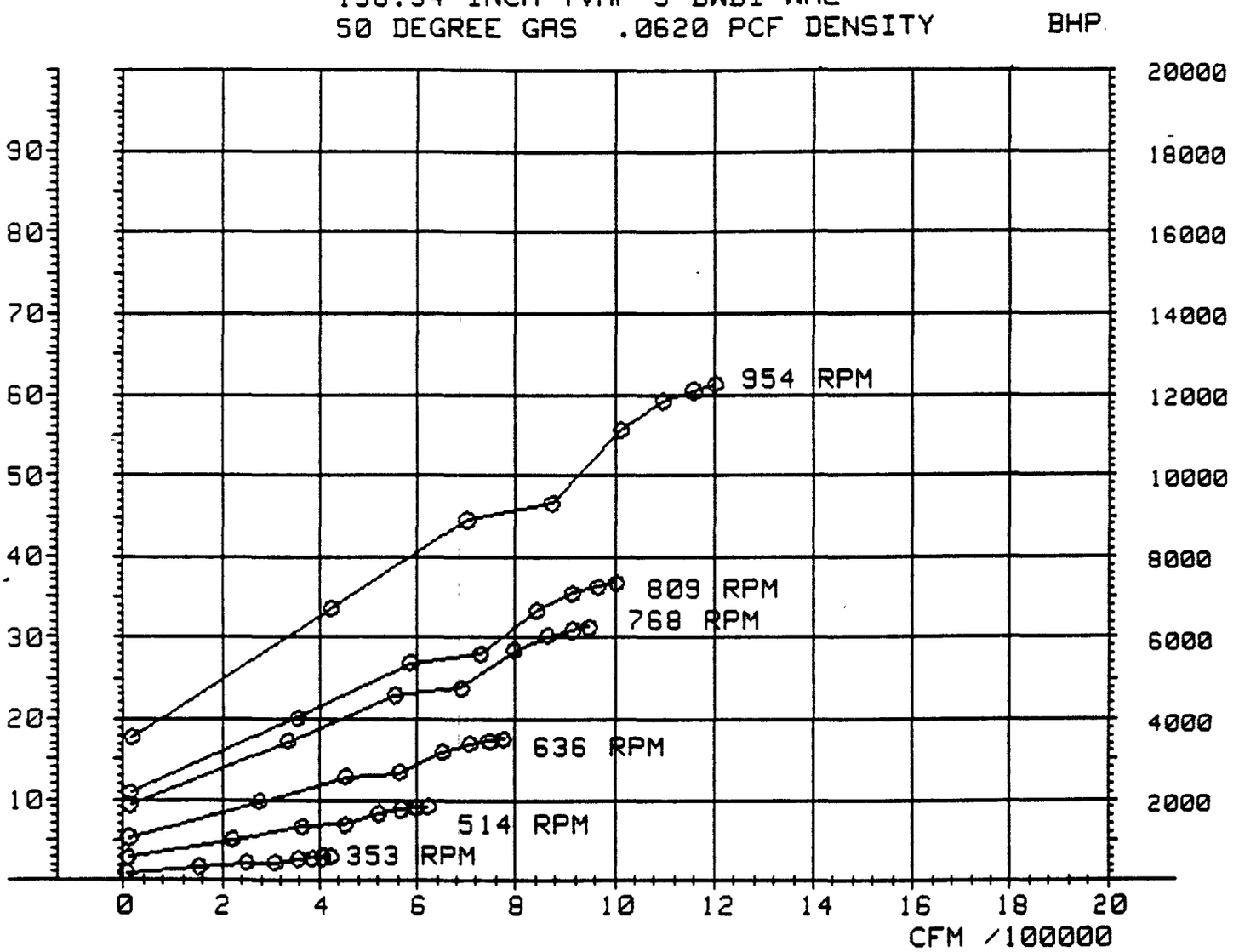
IP7_039104


KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI WHL
260 DEGREE GAS .0430 PCF DENSITY
BHP
954 RPM
809 RPM
768 RPM
636 RPM
514 RPM
353 RPM
CFM /100000


KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI WHL
50 DEGREE GAS .0620 PCF DENSITY
FSP-IN H20
100
90
80
70
60
50
40
30
20
10
954 RPM
809 RPM
768 RPM
636 RPM
514 RPM
353 RPM
0
2
4
6
8
10
12
14
16
18
20
CFM /100000

IP7_039106

KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI WHL
50 DEGREE GAS .0620 PCF DENSITY



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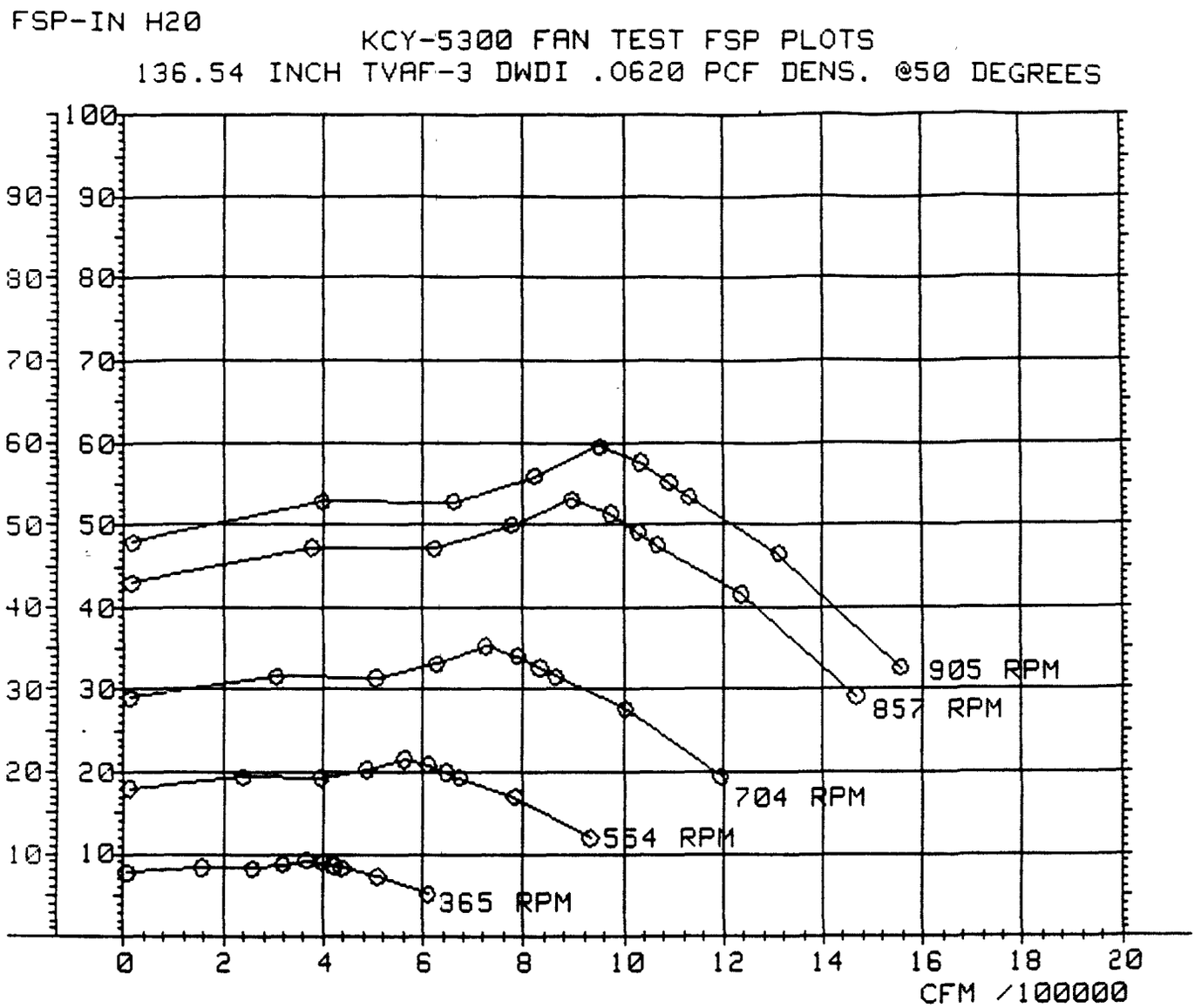
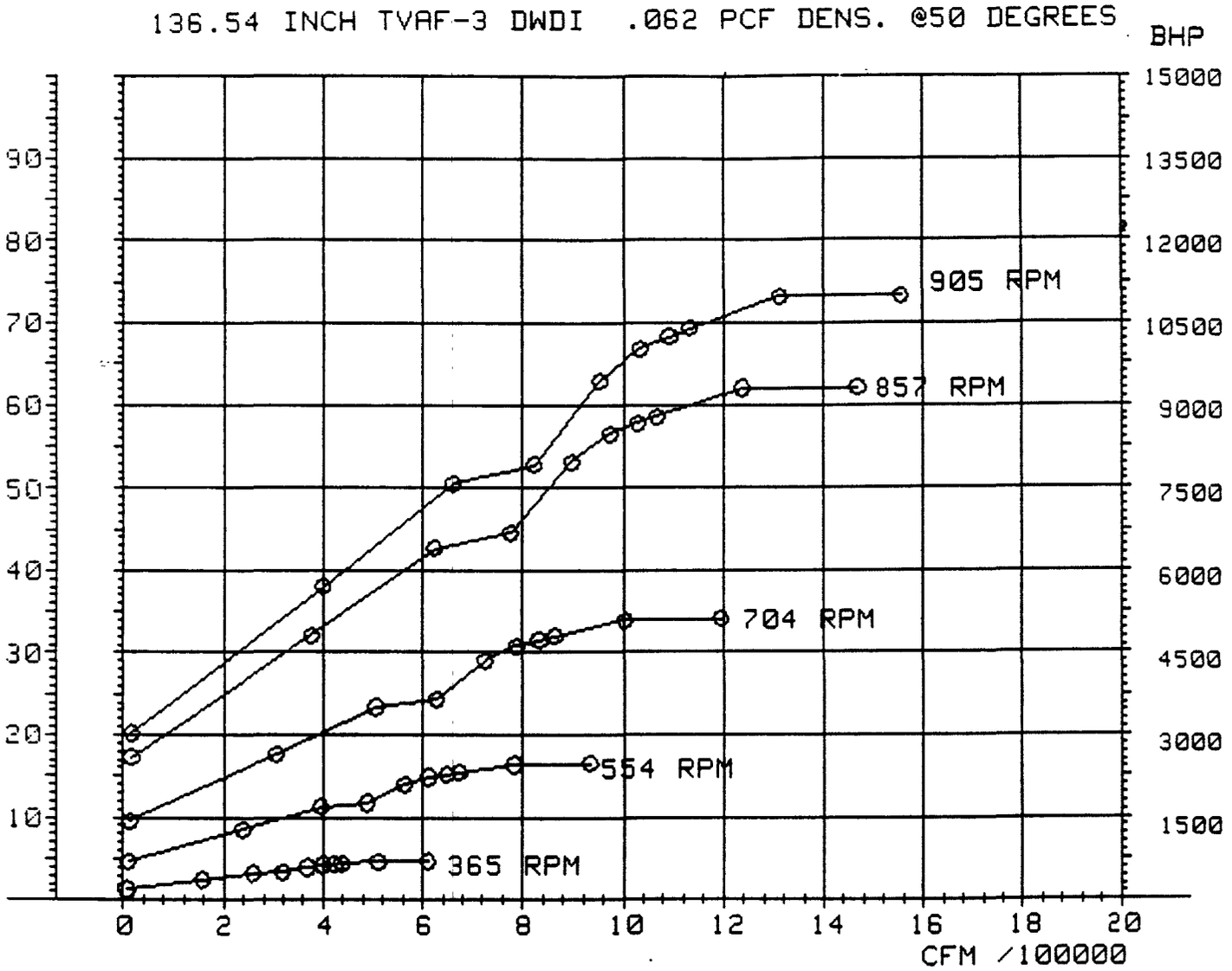
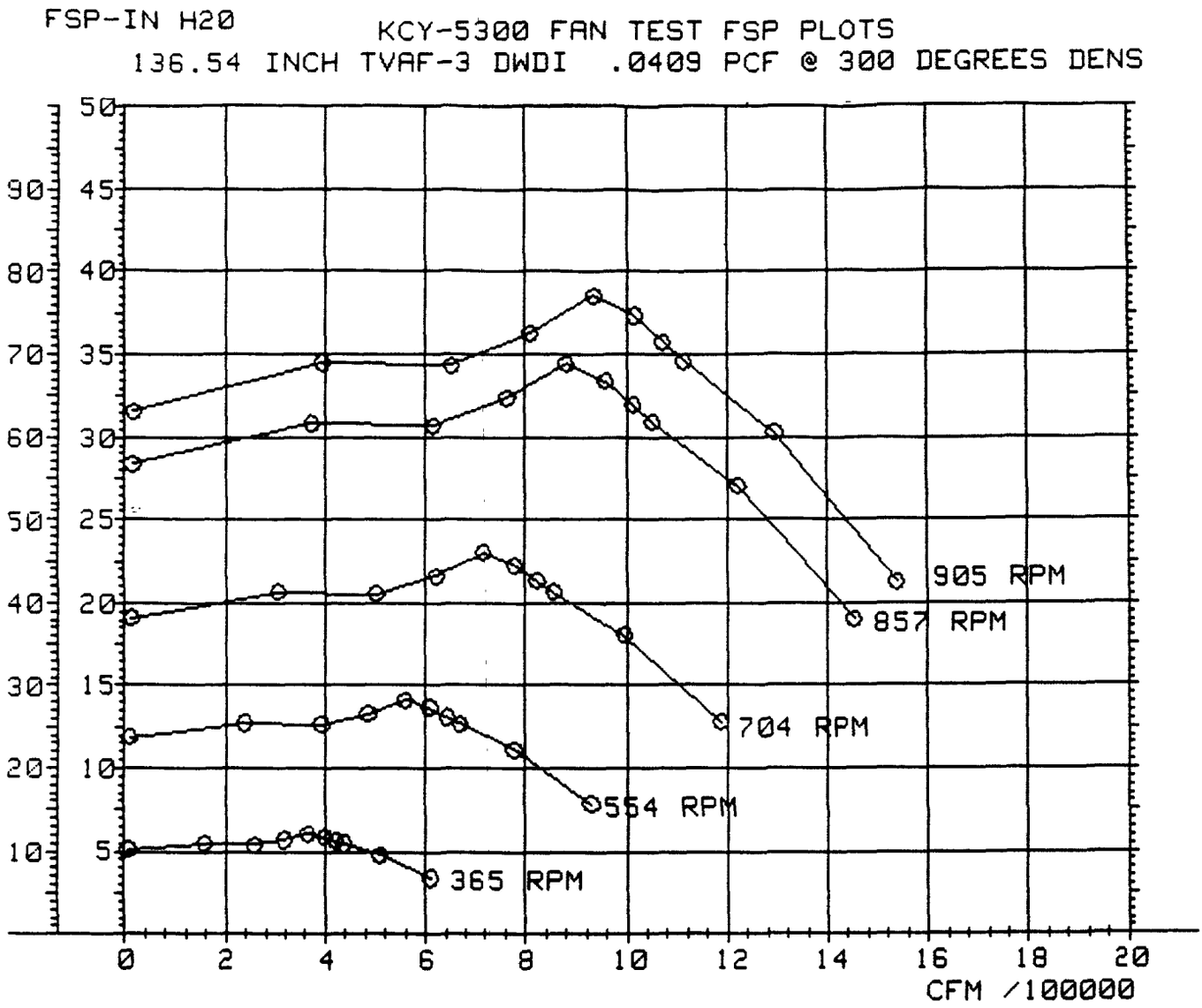
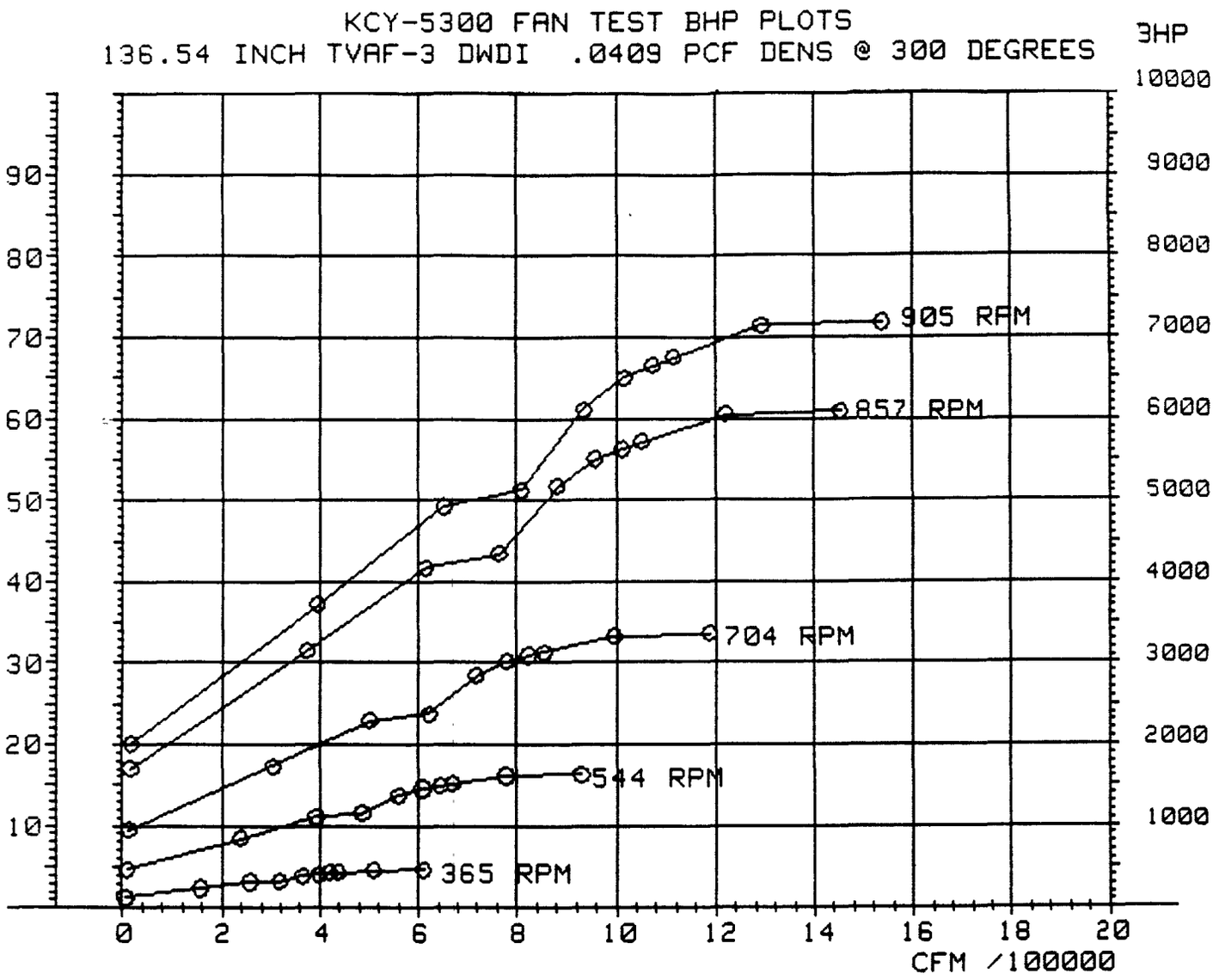
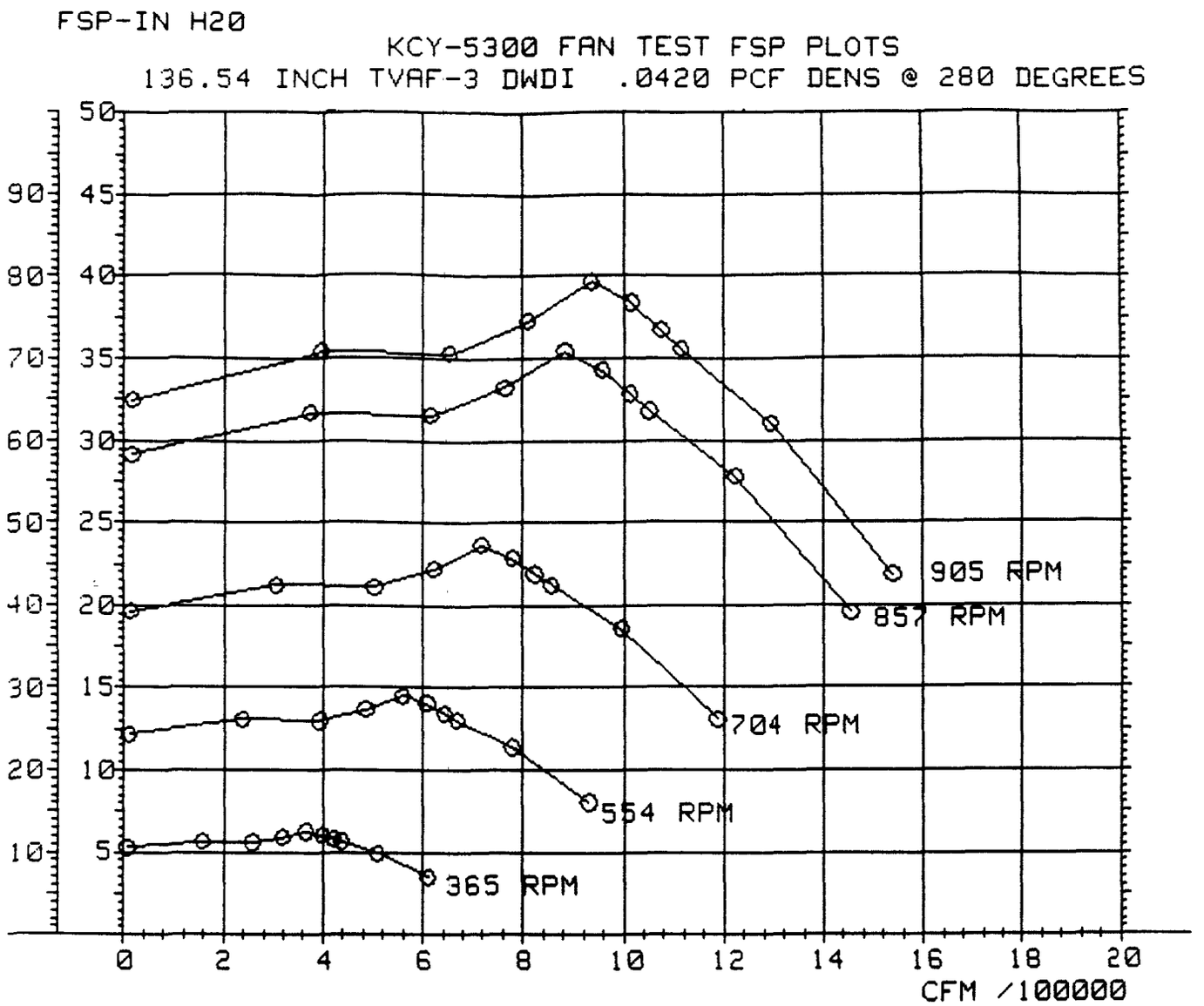

FSP-IN H20
KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI .0620 PCF DENS. @50 DEGREES
100
90
80
70
60
50
40
30
20
10
0
2
4
6
8
10
12
14
16
18
20
CFM /100000
905 RPM
857 RPM
704 RPM
554 RPM
365 RPM

KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .062 PCF DENS. @50 DEGREES

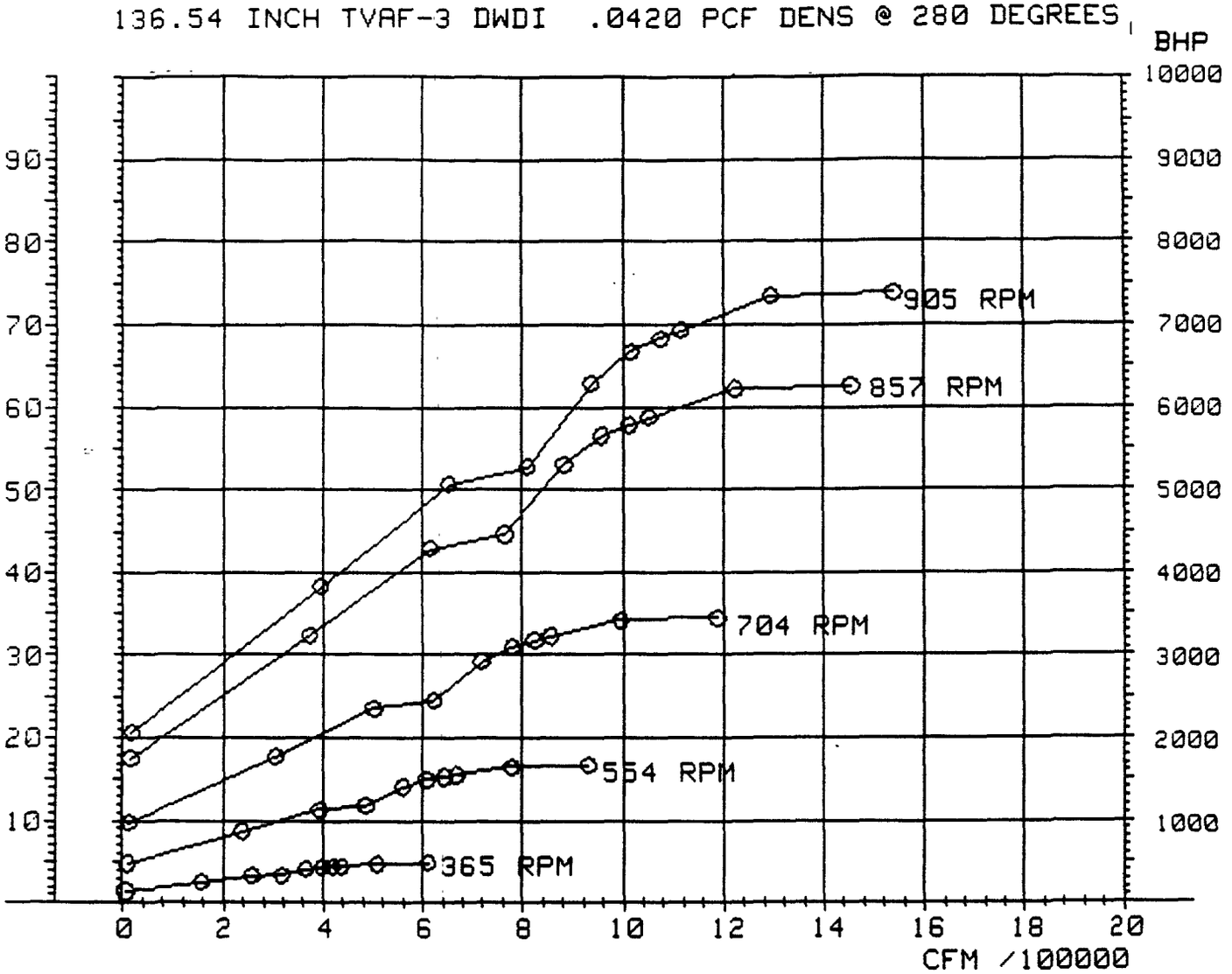



FSP-IN H20
KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI .0409 PCF @ 300 DEGREES DENS
905 RPM
857 RPM
704 RPM
554 RPM
365 RPM
CFM /100000

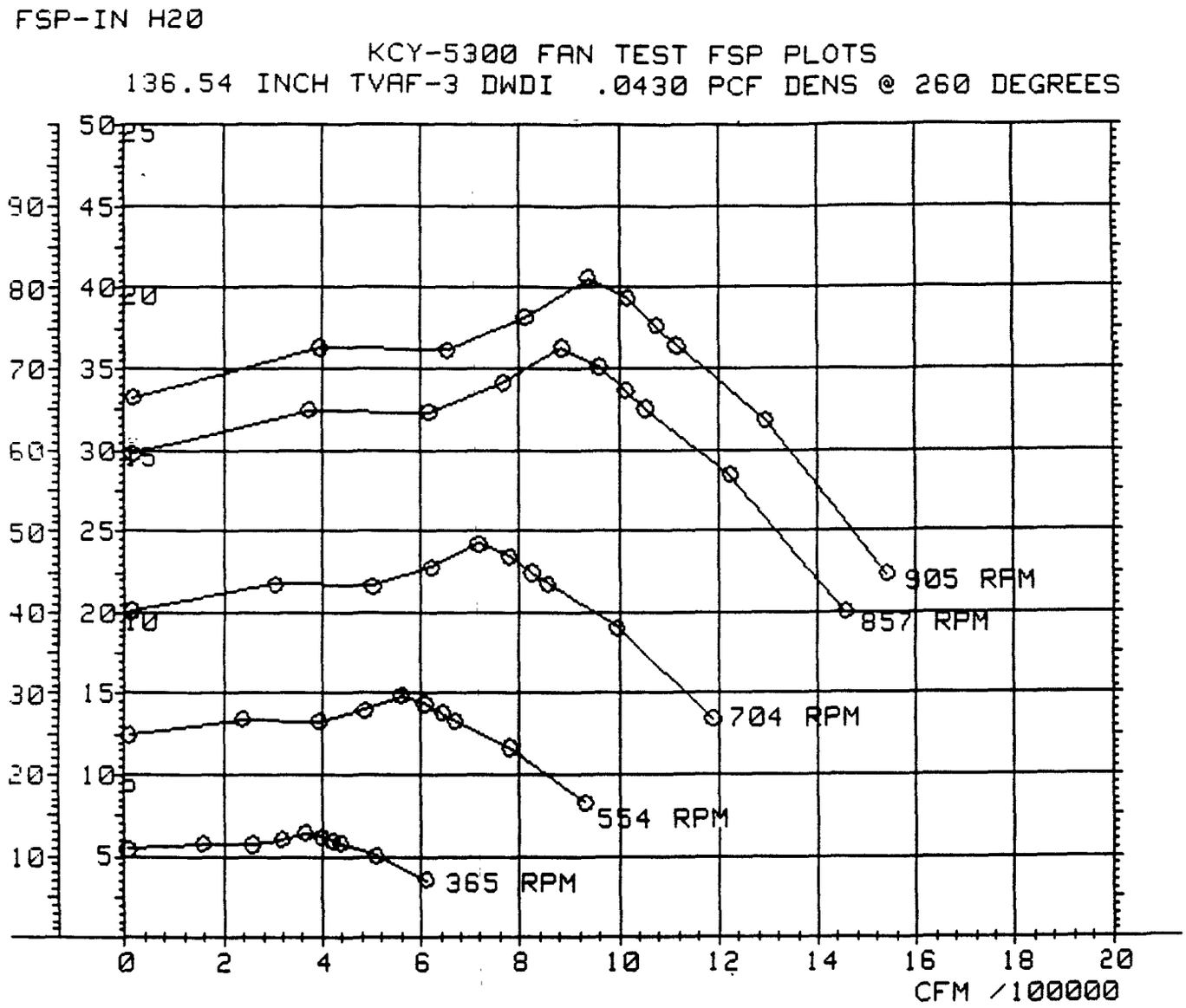

KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0409 PCF DENS @ 300 DEGREES
BHP
905 RPM
857 RPM
704 RPM
544 RPM
365 RPM
CFM /100000


FSP-IN H20
KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI .0420 PCF DENS @ 280 DEGREES
905 RPM
857 RPM
704 RPM
554 RPM
365 RPM
CFM /100000

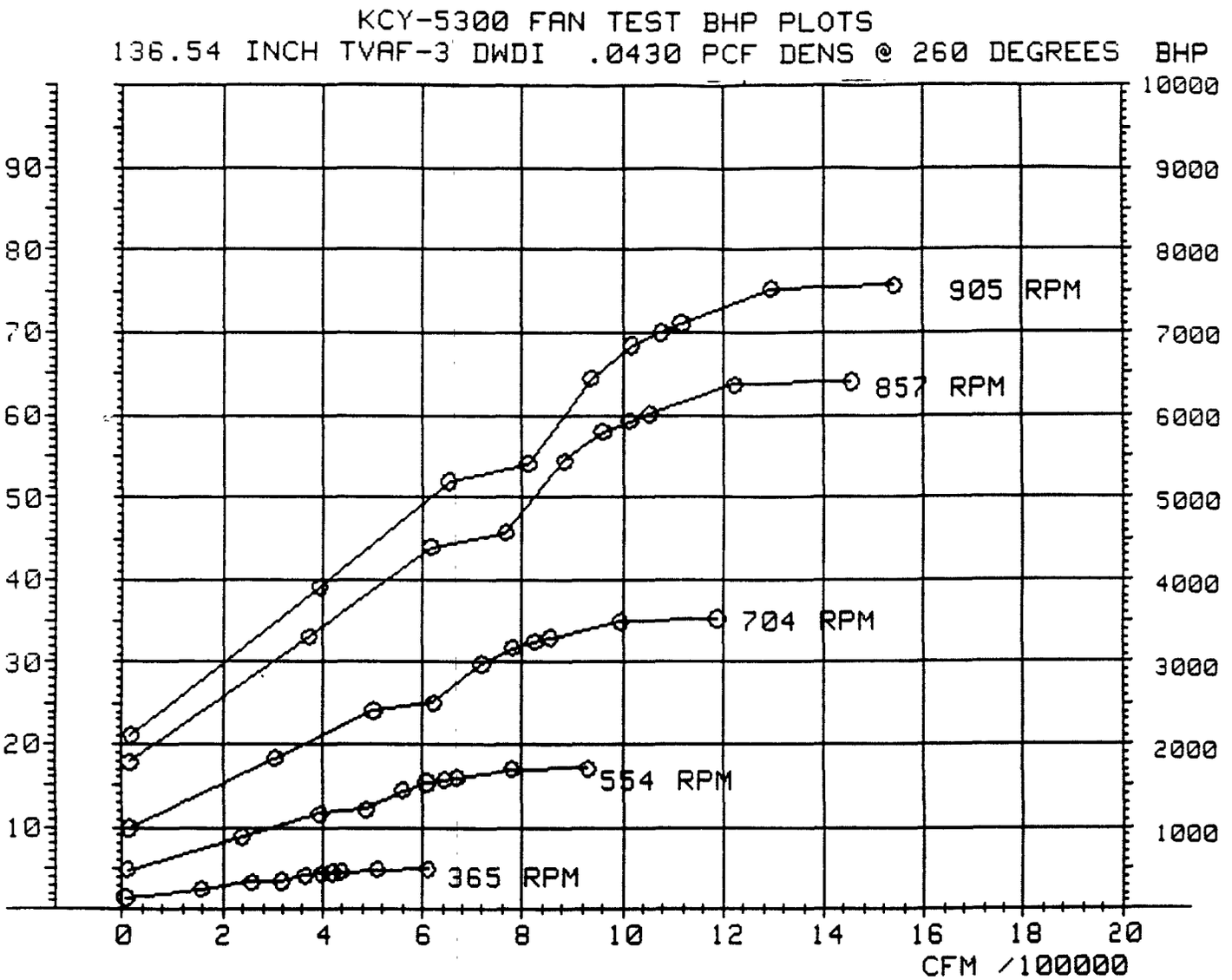
KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0420 PCF DENS @ 280 DEGREES

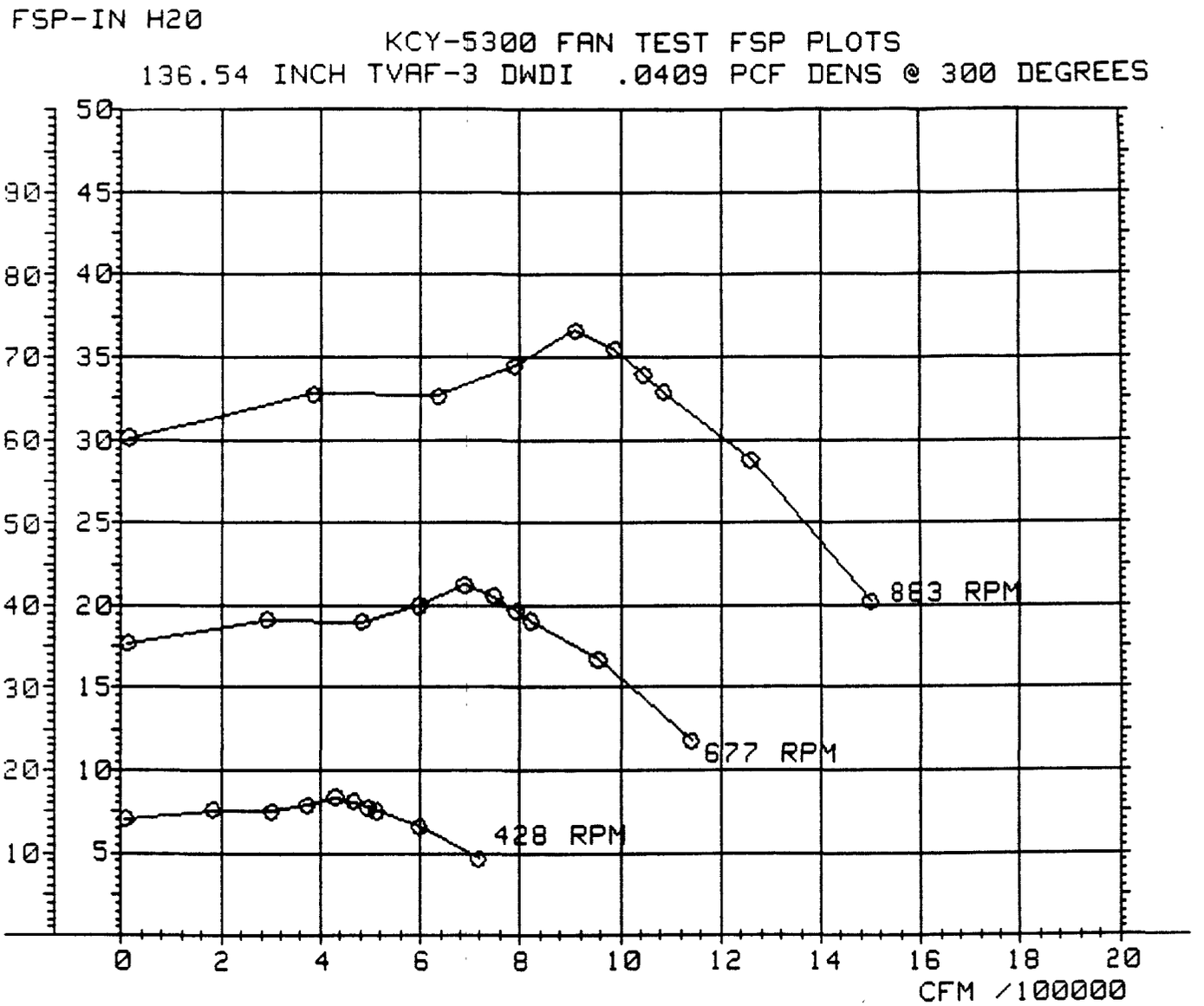


IP7_039113

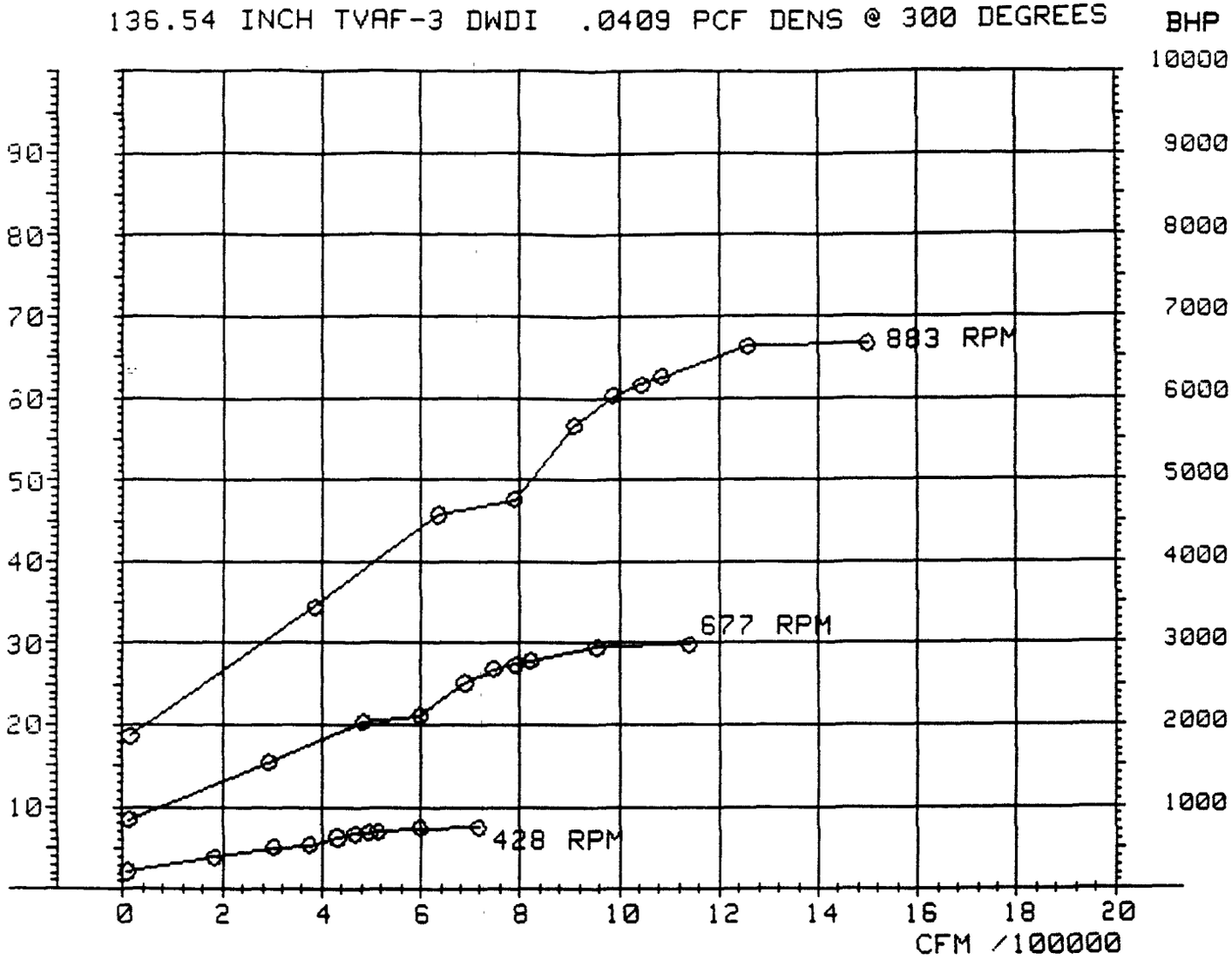

FSP-IN H20
KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI .0430 PCF DENS @ 260 DEGREES
905 RPM
857 RPM
704 RPM
554 RPM
365 RPM
CFM /100000

IP7_039114


KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0430 PCF DENS @ 260 DEGREES
BHP
905 RPM
857 RPM
704 RPM
554 RPM
365 RPM
CFM /100000


FSP-IN H20
KCY-5300 FAN TEST FSP PLOTS
136.54 INCH TVAF-3 DWDI .0409 PCF DENS @ 300 DEGREES
90
80
70
60
50
40
30
20
10
50
45
40
35
30
25
20
15
10
5
883 RPM
677 RPM
428 RPM
0
2
4
6
8
10
12
14
16
18
20
CFM /100000

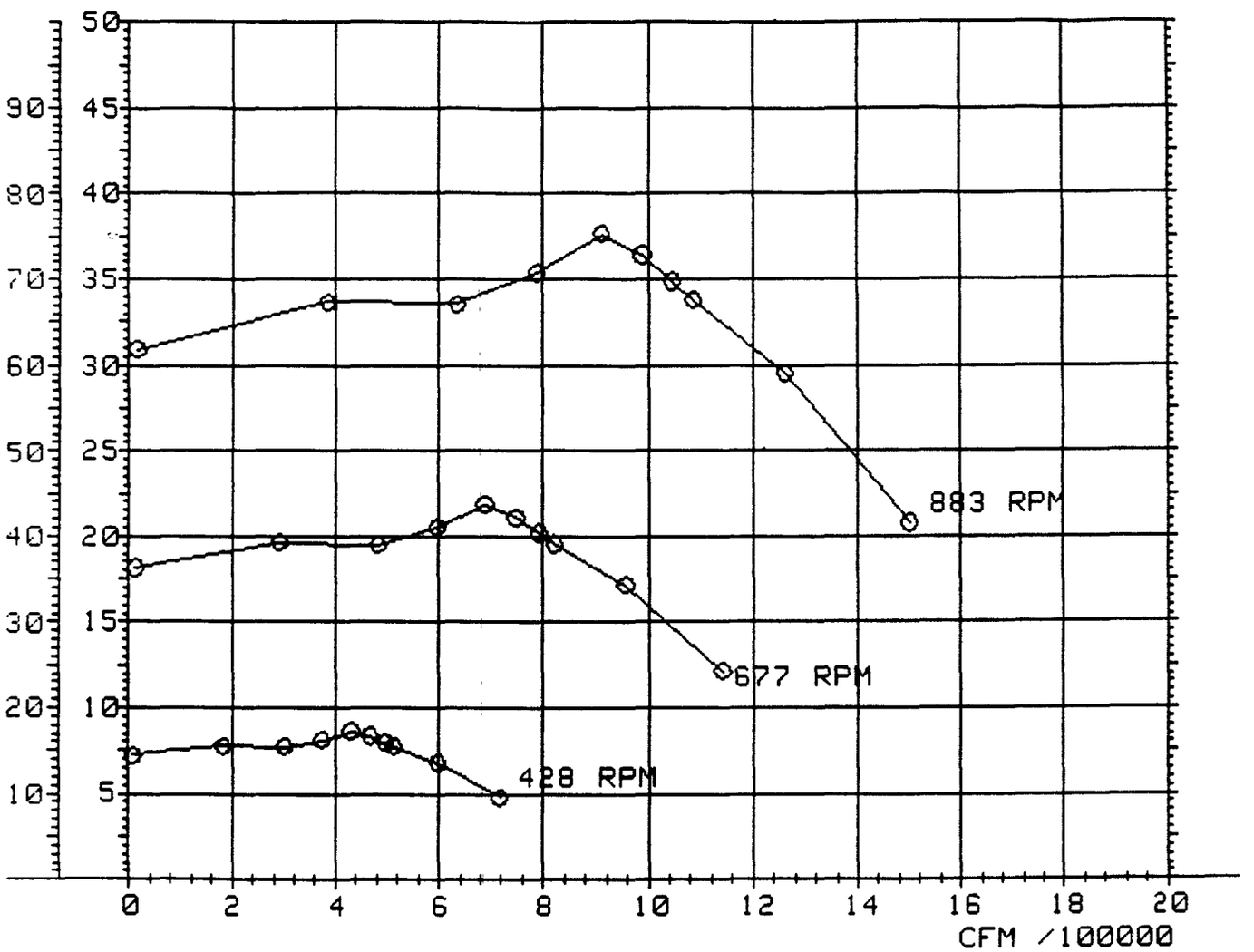
KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0409 PCF DENS @ 300 DEGREES

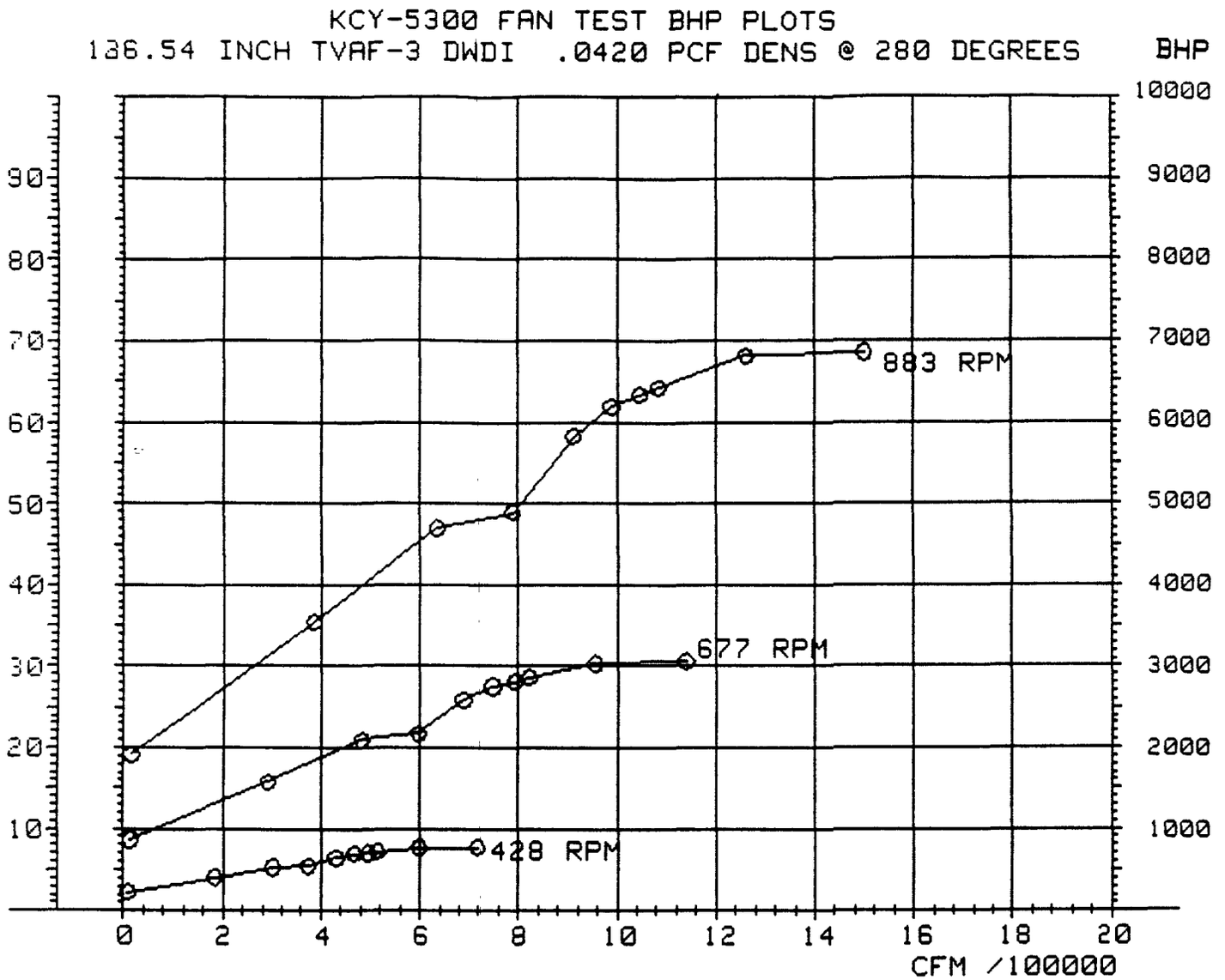


FSP-IN H20

KCY-5300 FAN TEST FSP PLOTS

136.54 INCH TVAF-3 DWDI .0420 PCF DENS @ 280 DEGREES

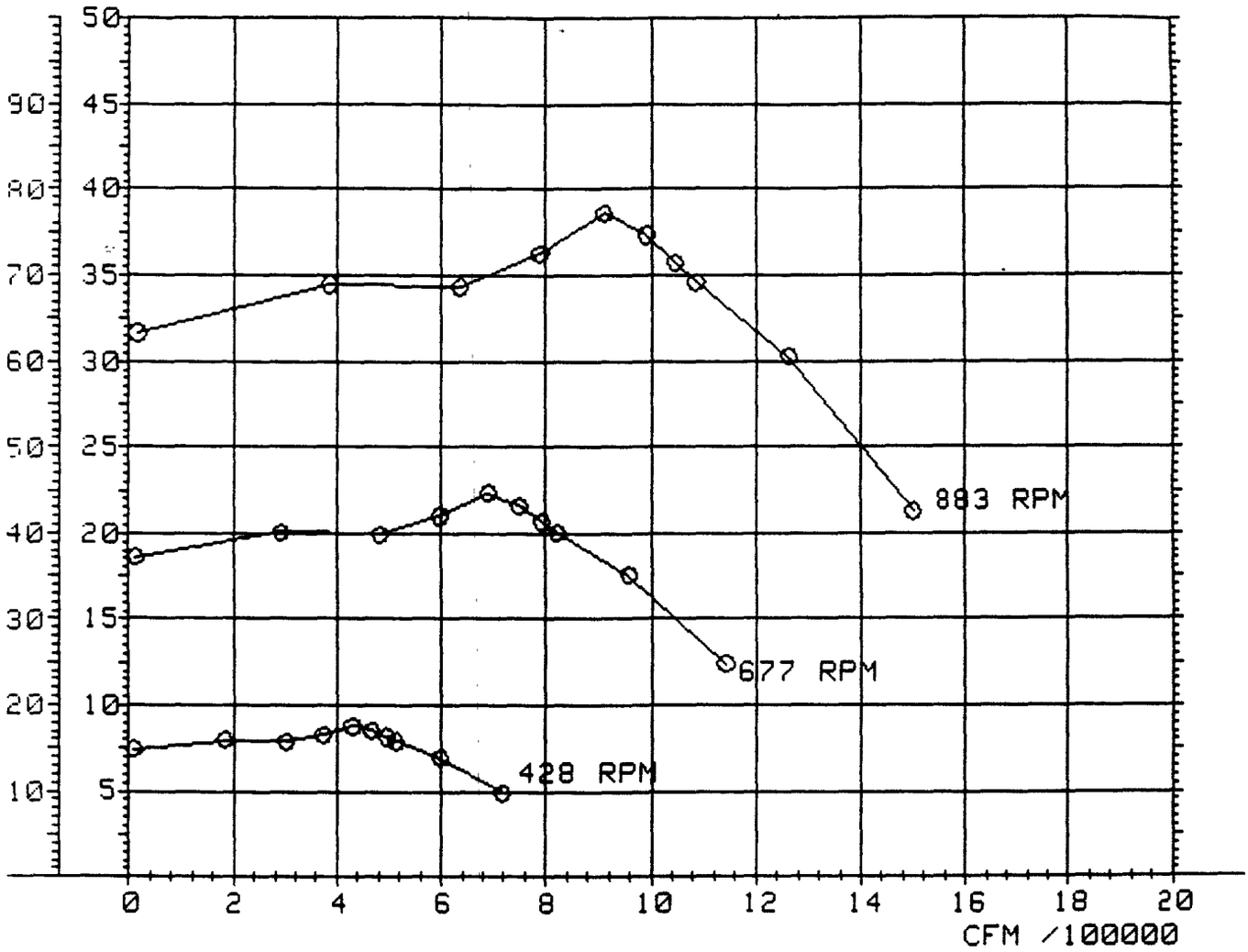



KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0420 PCF DENS @ 280 DEGREES
BHP
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
90
80
70
60
50
40
30
20
10
883 RPM
677 RPM
428 RPM
0
2
4
6
8
10
12
14
16
18
20
CFM /100000

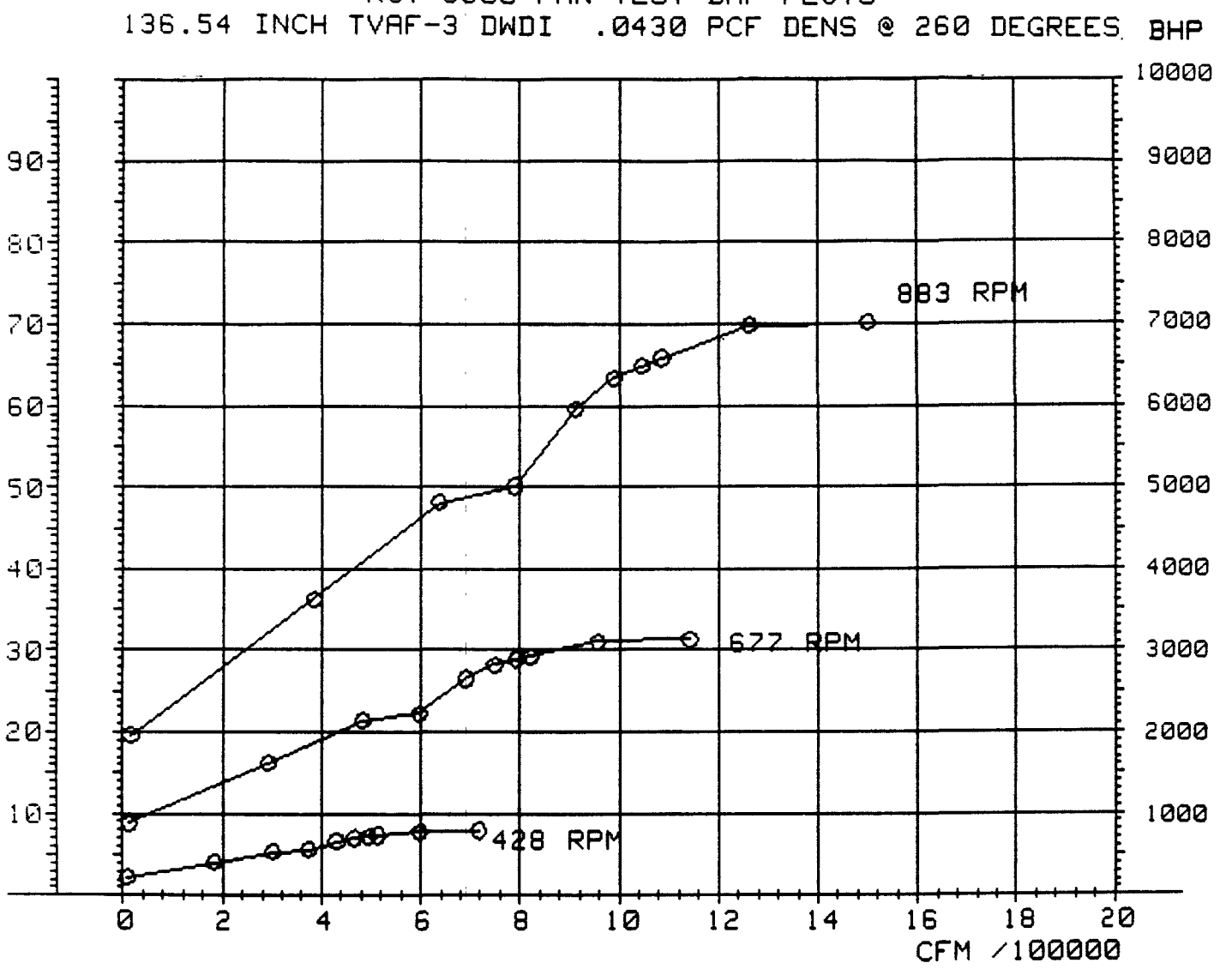
FSP-IN H20

KCY-5300 FAN TEST FSP PLOTS

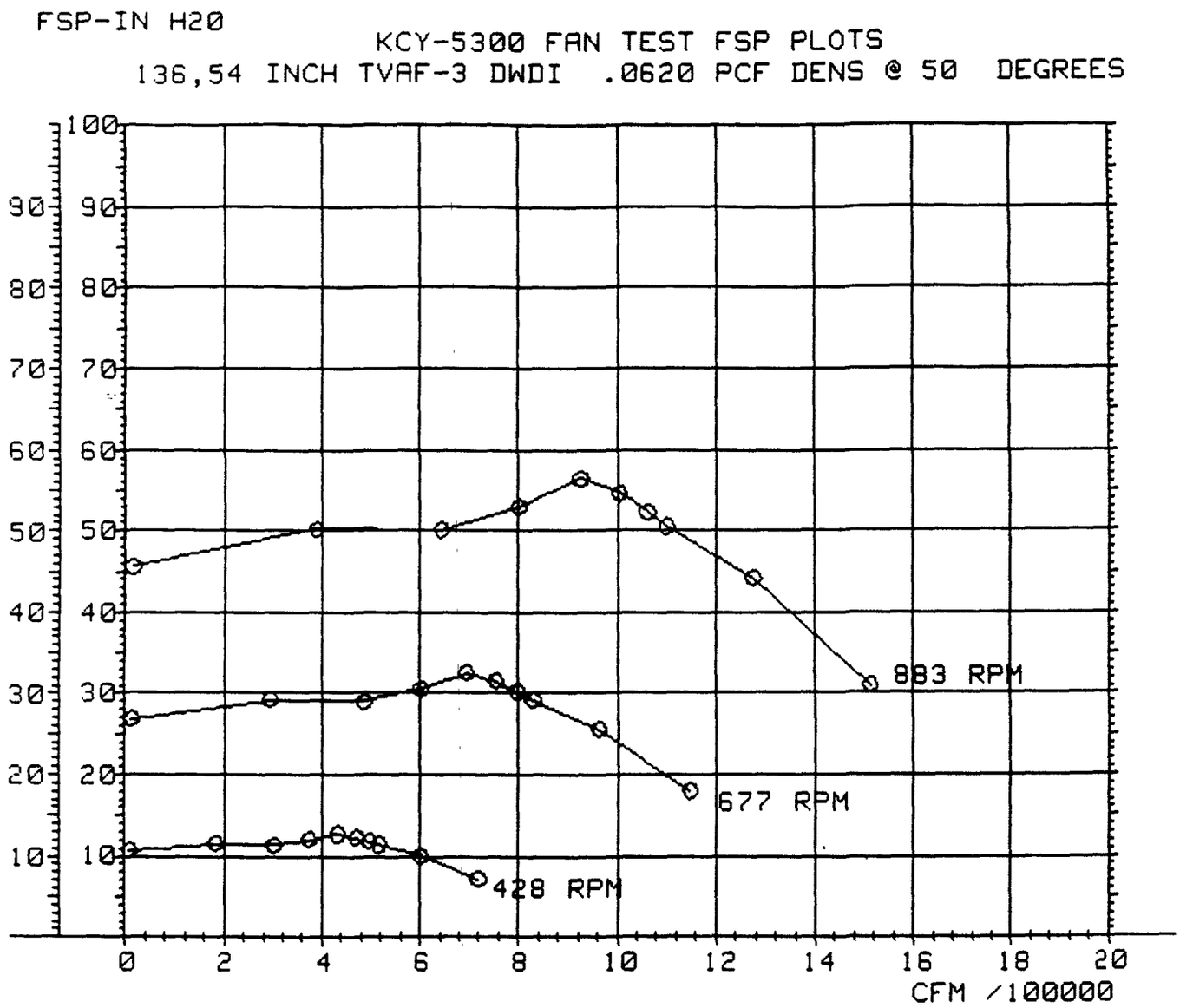
136.54 INCH TVAF-3 DWDI .0430 PCF DENS @ 260 DEGREES



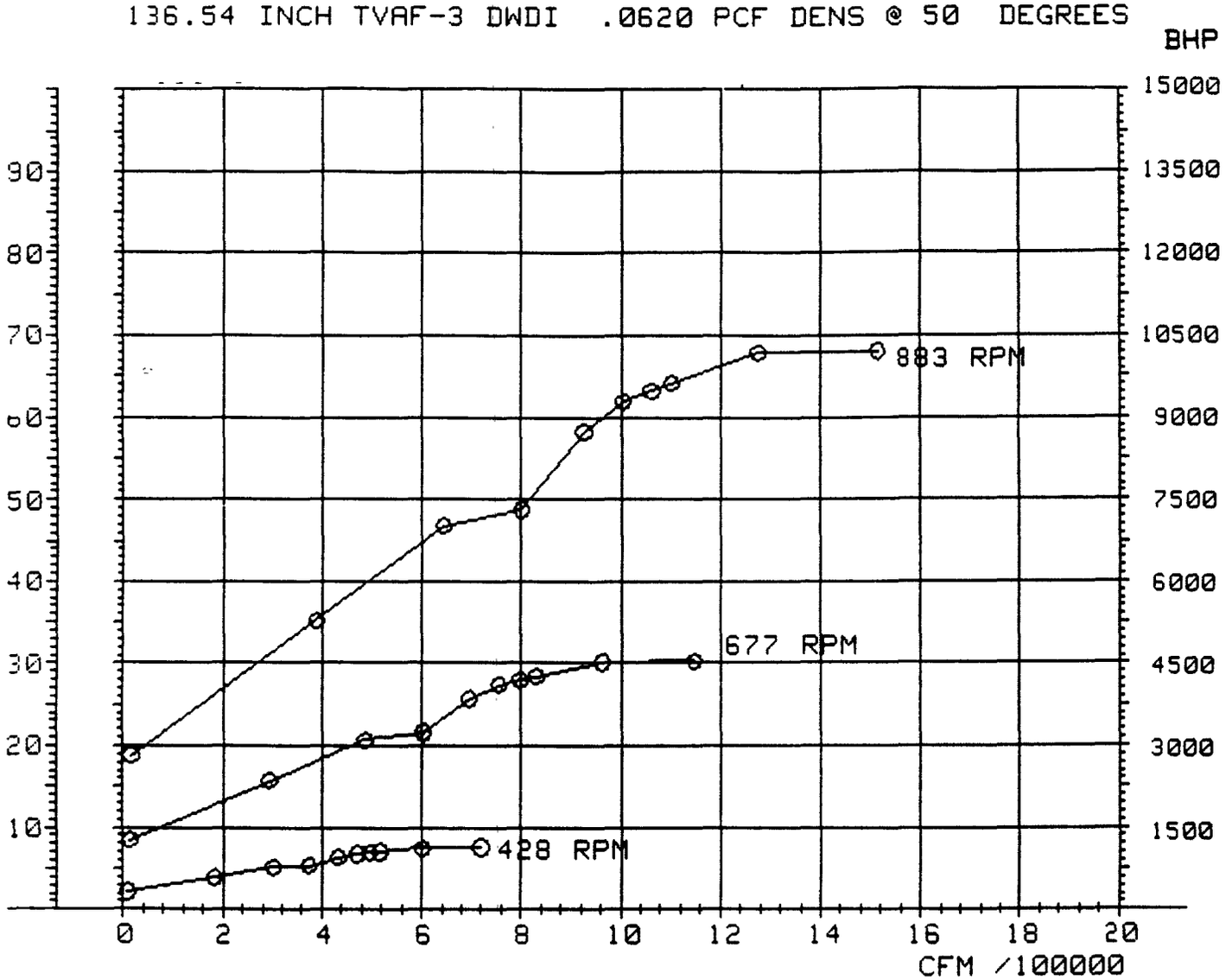
KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0430 PCF DENS @ 260 DEGREES



IP7_039121


FSP-IN H20
KCY-5300 FAN TEST FSP PLOTS
136,54 INCH TVAF-3 DWDI .0620 PCF DENS @ 50 DEGREES
100
90
80
70
60
50
40
30
20
10
883 RPM
677 RPM
428 RPM
0
2
4
6
8
10
12
14
16
18
20
CFM /100000

KCY-5300 FAN TEST BHP PLOTS
136.54 INCH TVAF-3 DWDI .0620 PCF DENS @ 50 DEGREES



IP7_039123

Section 1.2 Contract Data Sheets

I.B. 90-400.1.2.0.1

WSD General Order No. KCY-5300 & KCY-5301-EU Item No. 1-4 (Combined = Serial No.)

Contract/Main Assembly Drawing No. 2090F82

Purchaser: INTERMOUNTAIN POWER PROJECT

User: INTERMOUNTAIN POWER PROJECT

Plant or Station: INTERMOUNTAIN POWER PROJECT ; Unit No. 1&2

User Equipment Identification No. 9255 62.3403.01

Consulting Engineer: BLACK & VEATCH

Job No. 9255 ; Specification No. 62.3403.01

1. FAN DESCRIPTION: Series/Size 4132 ; DOUBLE Width DOUBLE Inlet
Speed Class 954 RPM; Wheel Type AIRFOIL

2. APPLICATION:

DUTY - Forced Draft ☐
Induced Draft ☒ FUEL COAL
Primary Air ☐
Hot Gas Recirculation ☐ FUEL
Other

DUTY CYCLE - Continuous Operation ☒
Cyclical Operation:
Shut Down/Start-Up Weekly ☐
Shut Down/Start-Up Daily ☐

TEMPERATURE:

-30 °F Minimum, 110 °F Maximum - Ambient
300 °F Normal Operating
300 °F Maximum Continuous Operating (Design)
670 °F Maximum Upset for 1/2 Hours
Not to exceed -- times per year.

Effective January 1978

Westinghouse Electric Corporation
Sturtevant Division
Hyde Park, Boston, MA 02136