# Silicon Laboratories, Inc. 

TEST REPORT FOR
Thin ZigBee-to-Ethernet Gateway
Model: 130-0880-000-A0

Tested To The Following Standards:

FCC Part 15 Subpart C Section(s) 15.207 and 15.247

Report No.: 95499-6

Date of issue: September 29, 2014


Testing Certificates: 803.01, 803.02, 803.05, 803.06

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

TABLE OF CONTENTS
Administrative Information ..... 3
Test Report Information .....  3
Report Authorization ..... 3
Test Facility Information ..... 4
Software Versions ..... 4
Site Registration \& Accreditation Information .....  4
Summary of Results .....  5
Modifications/Conditions During Testing .....  .5
Equipment Under Test .....  6
Peripheral Devices ..... 6
FCC Part 15 Subpart C ..... 7
15.207 AC Conducted Emissions ..... 7
15.247(a)(2) / 15.215(c) -6dB Occupied Bandwidth ..... 15
15.247(b)(3) RF Power Output ..... 18
15.31(e) Voltage Variations ..... 21
15.247(d) Field Strength of Spurious Emissions and Band Edge ..... 23
15. 247(e) Power Spectral Density ..... 62
Appendix A: Customer Provided Information ..... 65
Supplemental Information ..... 66
Measurement Uncertainty ..... 66
Emissions Test Details ..... 66

# ADMINISTRATIVE INFORMATION 

## Test Report Information

## REPORT PREPARED FOR:

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Austin, TX 78701

REPORT PREPARED BY:

Dianne Dudley
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 95499

September 5, 2014
September 5-14, 2014

## Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational modes) and configurations) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.


Steve Behm
Director of Quality Assurance \& Engineering Services CKC Laboratories, Inc.

Test Facility Information


Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

## Software Versions

| CKC Laboratories Proprietary Software | Version |
| :--- | :--- |
| EMITest Emissions | 5.00 .14 |
| Immunity | 5.00 .07 |

Site Registration \& Accreditation Information

| Location | CB \# | TAIWAN | CANADA | FCC | JAPAN |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Brea A | US0060 | SL2-IN-E-1146R | 3082D-1 | 90473 | A-0147 |
| Brea D | US0060 | SL2-IN-E-1146R | 3082D-2 | 100638 | A-0147 |

LABORATORIES, INC.

## SUMMARY OF RESULTS

## Standard / Specification: FCC Part 15 Subpart C

| Test Procedure/Method | Description | Modifications | Results |
| :---: | :---: | :---: | :---: |
| 15.207 / ANSI C63.4 | Conducted Emissions | NA | Pass |
| $\text { 15.247(a)(2) / 15.215(c) / } 558074$ <br> D01 DTS Meas Guidance v03r02 | -6dB Occupied Bandwidth | NA | Pass |
| $\text { 15.247(b)(3)/ } 558074 \text { D01 DTS }$ <br> Meas Guidance v03r02 | RF Power Output | NA | Pass |
| 15.31(e) / 2.1055(d) | Voltage Variation | NA | Pass |
| 15.247(d) / 558074 D01 DTS <br> Meas Guidance v03r02 / ITUR/551 | Radiated Spurious Emissions and Band Edge | NA | Pass |
| 15.247(e) / 558074 D01 DTS Meas Guidance v03r02 | Power Spectral Density | NA | Pass |
|  |  |  |  |

## Modifications*/Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

## Summary of Conditions

No modifications were made to the EUT during testing.
Note: See Appendix A for Duty Cycle Correction Factor Calculation.
*Modifications listed above must be incorporated into all production units.

# EQUIPMENT UNDER TEST (EXT) 

## EQUIPMENT UNDER TEST

Thin ZigBee-to-Ethernet Gateway
Manuf: Silicon Laboratories, Inc.
Model: 130-0880-000-A0
Serial: 70B3D555902A

## PERIPHERAL DEVICES

The EUT was tested with the following peripheral devices):

| Laptop Computer |  | AC to 6VDC Power Adapter |  |
| :--- | :--- | :--- | :---: |
| Manuf: Lenovo | Manuf: Triad |  |  |
| Model: Thinkpad T500 | Model: WDU6-800 |  |  |
| Serial: L3B3906 | Serial: NA |  |  |
|  |  |  |  |
| DC Power Supply |  |  |  |
| Manuf: Xantrex |  |  |  |
| Model: XTS-30-2X |  |  |  |
| Serial: 58738 |  |  |  |

LABORATORIES, INC.

## FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) CFR 47 Section 15 Subpart C requirements for Intentional Radiators.

### 15.207 AC Conducted Emissions

## Test Data

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112
Customer: Silicon Laboratories, Inc.
Specification: 15.207 AC Mains - Average Work Order \#:

95499
Conducted Emissions
Thin ZigBee-to-Ethernet gateway
Silicon Laboratories, Inc.
130-0880-000-A0
70B3D555902A

Date: 9/12/2014
Time: 4:36:58 PM
Sequence\#: 3
Tested By: S. Yamamoto
120 V 60 Hz

S/N:
Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |
| T1 | AN02343 | High Pass Filter | HE9615-150K- <br> $50-720 B$ | $1 / 10 / 2013$ | $1 / 10 / 2015$ |
| T2 | ANP01910 | Cable | RG-142 | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06085 | Attenuator | SA18N10W-09 | $12 / 14 / 2012$ | $12 / 14 / 2014$ |
| T4 | AN00847.1 | 50uH LISN-Line 1 <br> (dB) | $3816 / 2 N M$ | $6 / 26 / 2014$ | $6 / 26 / 2015$ |
|  | AN00847.1 | 50uH LISN-Line 2 <br> $(d B)$ | $3816 / 2 N M$ | $6 / 26 / 2014$ | $6 / 26 / 2015$ |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Thin ZigBee-to-Ethernet <br> gateway* | Silicon Laboratories, Inc. | $130-0880-000-A 0$ | 70B3D555902A |

Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6VDC power adapter | Triad | WDU6-800 | NA |

Test Conditions / Notes:
The equipment under test (EUT) and power supply are adjacent to each other on the table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which can command the EUT to various test frequencies.
The EUT is set to the channel with the highest power level which is 2405 MHz and +19 dBm .
The EUT is on and continuously transmitting.
Frequency range of data sheet, 150 kHz to $30 \mathrm{MHz} . \mathrm{RBW}=9 \mathrm{kHz}, \mathrm{VBW}=9 \mathrm{kHz}$.

Temperature: $22^{\circ} \mathrm{C}$
Relative Humidity: 44\%
Pressure: 100 kPa

## Site D

Ext Attn: 0 dB
Measurement Data: Reading listed by margin. Test Lead: L1(L)

| \# | Freq <br> MHz | Rdng $\mathrm{dB} \mu \mathrm{V}$ | $\begin{aligned} & \mathrm{T} 1 \\ & \mathrm{~dB} \end{aligned}$ | $\begin{aligned} & \mathrm{T} 2 \\ & \mathrm{~dB} \end{aligned}$ | $\begin{aligned} & \mathrm{T} 3 \\ & \mathrm{~dB} \end{aligned}$ | $\begin{aligned} & \mathrm{T} 4 \\ & \mathrm{~dB} \end{aligned}$ | Dist Table | $\begin{gathered} \text { Corr } \\ \mathrm{dB} \mu \mathrm{~V} \end{gathered}$ | $\begin{gathered} \text { Spec } \\ \mathrm{dB} \mu \mathrm{~V} \end{gathered}$ | Margin $\mathrm{dB}$ | Polar <br> Ant |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 642.318 k | 31.4 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 37.3 | 46.0 | -8.7 | L1(L) |
| 2 | 458.335 k | 29.9 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 35.8 | 46.7 | -10.9 | L1(L) |
| 3 | 485.242 k | 29.2 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 35.1 | 46.2 | -11.1 | L1(L) |
| 4 | 515.785 k | 29.0 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 34.9 | 46.0 | -11.1 | L1(L) |
| 5 | 403.068k | 30.4 | +0.2 | +0.0 | +5.7 | +0.0 | $+0.0$ | 36.3 | 47.8 | -11.5 | L1(L) |
| 6 | 429.247 k | 29.7 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 35.6 | 47.3 | -11.7 | L1(L) |
| 7 | 205.268 k | 35.6 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 41.5 | 53.4 | -11.9 | L1(L) |
| 8 | 296.168k | 32.2 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 38.1 | 50.3 | -12.2 | L1(L) |
| 9 | 923.985k | 27.9 | +0.1 | +0.0 | +5.7 | +0.0 | +0.0 | 33.7 | 46.0 | -12.3 | L1(L) |
| 10 | 341.255 k | 30.8 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 36.7 | 49.2 | -12.5 | L1(L) |
| 11 | 11.824 M | 23.8 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 30.1 | 50.0 | -19.9 | L1(L) |
| 12 | 1.456 M | 19.7 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 25.6 | 46.0 | -20.4 | L1(L) |
| 13 | 11.716 M | 22.6 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 28.9 | 50.0 | -21.1 | L1(L) |
| 14 | 11.950 M | 22.5 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 28.8 | 50.0 | -21.2 | L1(L) |
| 15 | 18.364 M | 21.8 | +0.2 | +0.4 | +5.8 | +0.2 | +0.0 | 28.4 | 50.0 | -21.6 | L1(L) |
| 16 | 14.148M | 21.8 | +0.2 | +0.3 | +5.8 | +0.1 | +0.0 | 28.2 | 50.0 | -21.8 | L1(L) |
| 17 | 18.247M | 21.6 | +0.2 | +0.4 | +5.8 | +0.2 | $+0.0$ | 28.2 | 50.0 | -21.8 | L1(L) |


| 18 | 15.616 M | 21.7 | +0.2 | +0.3 | +5.8 | +0.1 | +0.0 | 28.1 | 50.0 | -21.9 | L1(L) |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 19 | 4.696 M | 18.0 | +0.1 | +0.2 | +5.7 | +0.0 | +0.0 | 24.0 | 46.0 | -22.0 | L1(L) |
| 20 | 11.652 M | 21.7 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 28.0 | 50.0 | -22.0 | L1(L) |
| 21 | 11.896 M | 21.6 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 27.9 | 50.0 | -22.1 | L1(L) |
| 22 | 12.202 M | 21.6 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 27.9 | 50.0 | -22.1 | L1(L) |
| 23 | 12.139 M | 21.4 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 27.7 | 50.0 | -22.3 | L1(L) |
| 24 | 17.697 M | 21.1 | +0.2 | +0.4 | +5.8 | +0.2 | +0.0 | 27.7 | 50.0 | -22.3 | L1(L) |
| 25 | 13.355 M | 21.2 | +0.2 | +0.3 | +5.8 | +0.1 | +0.0 | 27.6 | 50.0 | -22.4 | L1(L) |
| 26 | 15.247 M | 21.2 | +0.2 | +0.3 | +5.8 | +0.1 | +0.0 | 27.6 | 50.0 | -22.4 | L1(L) |
| 27 | 11.589 M | 21.2 | +0.2 | +0.2 | +5.8 | +0.1 | +0.0 | 27.5 | 50.0 | -22.5 | L1(L) |
| 28 | 13.418 M | 21.0 | +0.2 | +0.3 | +5.8 | +0.1 | +0.0 | 27.4 | 50.0 | -22.6 | L1(L) |
| 29 | 18.184 M | 20.8 | +0.2 | +0.4 | +5.8 | +0.2 | +0.0 | 27.4 | 50.0 | -22.6 | L1(L) |
| 30 | 18.301 M | 20.8 | +0.2 | +0.4 | +5.8 | +0.2 | +0.0 | 27.4 | 50.0 | -22.6 | L1(L) |

CKC Laboratories, Inc. Date: 9/12/2014 Time: 4:36:58 PM Silicon Laboratories, Inc. WO\#: 95499 15.207 AC Mains - Average Test Lead: L1(L) 120 V 60 Hz Sequence\#: 3 Ext ATTN: 0 dB


|  | Sweep Data |  | Readings |
| :---: | :---: | :---: | :---: |
| $\bigcirc$ | Peak Readings | $\times$ | QP Readings |
| * | Average Readings | V | Ambient |
|  | 1-15.207 AC Mains - Average |  | 2-15.207 AC Mains - Quasi-pea |

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112

| Customer: | Silicon Laboratories, Inc. |  |  |
| :--- | :--- | ---: | :--- |
| Specification: | $\mathbf{1 5 . 2 0 7}$ AC Mains - Average |  | Date: |
| Work Order \#: | 95499 | Time: | $4: 41: 18$ PM |
| Test Type: | Conducted Emissions | Sequence\#: | 4 |
| Equipment: | Thin ZigBee-to-Ethernet gateway | Tested By: | S. Yamamoto |
| Manufacturer: | Silicon Laboratories, Inc. |  |  |
| Model: | 130-0880-000-A0 |  |  |
| S/N: | 70B3D555902A |  |  |

Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |  |
| T1 | AN02343 | High Pass Filter | HE9615-150K- <br> $50-720 B$ | $1 / 10 / 2013$ | $1 / 10 / 2015$ |
| T2 | ANP01910 | Cable | RG-142 | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06085 | Attenuator | SA18N10W-09 | $12 / 14 / 2012$ | $12 / 14 / 2014$ |
|  | AN00847.1 | 50 uH LISN-Line 1 <br> $(\mathrm{~dB})$ | $3816 / 2 \mathrm{NM}$ | $6 / 26 / 2014$ | $6 / 26 / 2015$ |
| T4 | AN00847.1 | 50 uH LISN-Line 2 <br> $(\mathrm{~dB})$ | $3816 / 2 \mathrm{NM}$ | $6 / 26 / 2014$ | $6 / 26 / 2015$ |

## Equipment Under Test (* = EUT):

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Thin ZigBee-to-Ethernet <br> gateway* | Silicon Laboratories, Inc. | 130-0880-000-A0 | 70B3D555902A |

## Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6VDC power adapter | Triad | WDU6-800 | NA |

## Test Conditions / Notes:

The equipment under test (EUT) and power supply are adjacent to each other on the table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which can command the EUT to various test frequencies.
The EUT is set to the channel with the highest power level which is 2405 MHz and +19 dBm .
The EUT is on and continuously transmitting.
Frequency range of data sheet, 150 kHz to $30 \mathrm{MHz} . \mathrm{RBW}=9 \mathrm{kHz}, \mathrm{VBW}=9 \mathrm{kHz}$.

Temperature: $22^{\circ} \mathrm{C}$
Relative Humidity: 44\%
Pressure: 100 kPa
Site D

Ext Attn: 0 dB
Measurement Data: Reading listed by margin. Test Lead: (N)L2

| \# | $\begin{aligned} & \text { Freq } \\ & \text { MHz } \end{aligned}$ | $\begin{aligned} & \text { Rdng } \\ & \text { dBuV } \end{aligned}$ | $\begin{aligned} & \mathrm{T} 1 \\ & \mathrm{~dB} \end{aligned}$ | $\begin{gathered} \mathrm{T} 2 \\ \mathrm{~dB} \end{gathered}$ | $\begin{aligned} & \text { T3 } \\ & \text { dB } \end{aligned}$ | $\begin{aligned} & \mathrm{T} 4 \\ & \mathrm{~dB} \end{aligned}$ | Dist Table | $\begin{gathered} \text { Corr } \\ \mathrm{dB} \mu \mathrm{~V} \end{gathered}$ | $\begin{array}{r} \text { Spec } \\ \mathrm{dB} \mu \mathrm{~V} \\ \hline \end{array}$ | $\begin{gathered} \text { Margin } \\ \mathrm{dB} \end{gathered}$ | $\begin{gathered} \text { Polar } \\ \text { Ant } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 497.604k | 31.3 | +0.2 | +0.0 | +5.7 | +0.0 | +0.0 | 37.2 | 46.0 | -8.8 | (N)L2 |
| 2 | 827.029k | 30.8 | +0.1 | $+0.0$ | +5.7 | $+0.0$ | $+0.0$ | 36.6 | 46.0 | -9.4 | (N)L2 |
| 3 | 877.205k | 29.4 | +0.1 | +0.0 | +5.7 | $+0.0$ | +0.0 | 35.2 | 46.0 | -10.8 | (N)L2 |
| 4 | 11.761M | 27.1 | +0.2 | +0.2 | +5.8 | +0.2 | $+0.0$ | 33.5 | 50.0 | -16.5 | (N)L2 |
| 5 | 18.238M | 23.9 | +0.2 | +0.4 | +5.8 | +0.3 | +0.0 | 30.6 | 50.0 | -19.4 | (N)L2 |
| 6 | 18.301M | 23.3 | +0.2 | +0.4 | +5.8 | +0.3 | $+0.0$ | 30.0 | 50.0 | -20.0 | (N)L2 |
| 7 | 11.824M | 23.0 | +0.2 | +0.2 | +5.8 | +0.2 | +0.0 | 29.4 | 50.0 | -20.6 | (N)L2 |
| 8 | 12.202M | 22.6 | +0.2 | +0.2 | +5.8 | +0.2 | $+0.0$ | 29.0 | 50.0 | -21.0 | (N)L2 |
| 9 | 13.418M | 22.3 | +0.2 | +0.3 | +5.8 | +0.2 | +0.0 | 28.8 | 50.0 | -21.2 | (N)L2 |
| 10 | 12.743M | 22.2 | +0.2 | +0.3 | +5.8 | +0.2 | +0.0 | 28.7 | 50.0 | -21.3 | (N)L2 |
| 11 | 15.247M | 22.1 | +0.2 | +0.3 | +5.8 | $+0.2$ | $+0.0$ | 28.6 | 50.0 | -21.4 | (N)L2 |
| 12 | 4.696M | 18.4 | +0.1 | +0.2 | +5.7 | +0.1 | +0.0 | 24.5 | 46.0 | -21.5 | (N)L2 |
| 13 | 17.697M | 21.9 | +0.2 | +0.4 | +5.8 | $+0.2$ | $+0.0$ | 28.5 | 50.0 | -21.5 | (N)L2 |
| 14 | 11.887M | 21.9 | +0.2 | +0.2 | +5.8 | $+0.2$ | +0.0 | 28.3 | 50.0 | -21.7 | (N)L2 |
| 15 | 18.364M | 21.6 | +0.2 | +0.4 | +5.8 | $+0.3$ | +0.0 | 28.3 | 50.0 | -21.7 | (N)L2 |
| 16 | 4.586M | 18.1 | +0.1 | +0.2 | +5.7 | $+0.1$ | +0.0 | 24.2 | 46.0 | -21.8 | (N)L2 |
| 17 | 16.229M | 21.7 | +0.2 | +0.3 | +5.8 | +0.2 | $+0.0$ | 28.2 | 50.0 | -21.8 | (N)L2 |
| 18 | 11.706M | 21.7 | +0.2 | +0.2 | +5.8 | $+0.2$ | +0.0 | 28.1 | 50.0 | -21.9 | (N)L2 |
| 19 | 4.641M | 17.9 | +0.1 | +0.2 | +5.7 | +0.1 | +0.0 | 24.0 | 46.0 | -22.0 | (N)L2 |
| 20 | 4.526M | 17.8 | +0.1 | $+0.2$ | +5.7 | $+0.1$ | $+0.0$ | 23.9 | 46.0 | -22.1 | ( N )L2 |
| 21 | 9.220 M | 21.5 | +0.2 | +0.2 | +5.8 | $+0.2$ | $+0.0$ | 27.9 | 50.0 | -22.1 | (N)L2 |
| 22 | 12.139M | 21.5 | +0.2 | +0.2 | +5.8 | $+0.2$ | +0.0 | 27.9 | 50.0 | -22.1 | (N)L2 |
| 23 | 12.103 M | 21.4 | $+0.2$ | $+0.2$ | +5.8 | $+0.2$ | $+0.0$ | 27.8 | 50.0 | -22.2 | (N)L2 |
| 24 | 11.589M | 21.3 | $+0.2$ | +0.2 | +5.8 | $+0.2$ | $+0.0$ | 27.7 | 50.0 | -22.3 | (N)L2 |

Page 12 of 67

| 25 | 4.747 M | 17.6 | +0.1 | +0.2 | +5.7 | +0.1 | +0.0 | 23.7 | 46.0 | -22.3 | $(\mathrm{~N}) \mathrm{L} 2$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 13.355 M | 21.2 | +0.2 | +0.3 | +5.8 | +0.2 | +0.0 | 27.7 | 50.0 | -22.3 | $(\mathrm{~N}) \mathrm{L} 2$ |
| 27 | 15.553 M | 21.2 | +0.2 | +0.3 | +5.8 | +0.2 | +0.0 | 27.7 | 50.0 | -22.3 | $(\mathrm{~N}) \mathrm{L} 2$ |
| 28 | 13.481 M | 21.2 | +0.2 | +0.3 | +5.8 | +0.2 | +0.0 | 27.7 | 50.0 | -22.3 | $(\mathrm{~N}) \mathrm{L} 2$ |
| 29 | 11.652 M | 21.2 | +0.2 | +0.2 | +5.8 | +0.2 | +0.0 | 27.6 | 50.0 | -22.4 | $(\mathrm{~N}) \mathrm{L} 2$ |
| 30 | 15.436 M | 21.0 | +0.2 | +0.3 | +5.8 | +0.2 | +0.0 | 27.5 | 50.0 | -22.5 | $(\mathrm{~N}) \mathrm{L} 2$ |

CKC Laboratories, Inc. Date: 9/12/2014 Time: 4:41:18 PM Silicon Laboratories, Inc. WO\#: 95499 15.207 AC Mains - Average Test Lead: (N)L2 120V 60 Hz Sequence\#: 4 Ext ATTN: 0 dB




Test Setup Photos


### 15.247(a)(2) / 15.215(c) -6dB Occupied Bandwidth

## Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: Silicon Laboratories, Inc.
Specification: 15.247(a)(2) 6dB Bandwidth
Work Order \#:
95499
Test Type:
Equipment:
Manufacturer:
Maximized Emissions
Thin ZigBee-to-Ethernet gateway

Model:
Silicon Laboratories, Inc.
Tested By: S. Yamamoto

70 B 3 D 555902 A
Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| T1 | AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |
| T2 | ANP05421 | Cable | Sucoflex 104A | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06661 | Cable | LDF1-50 | $4 / 15 / 2014$ | $4 / 15 / 2016$ |
| T4 | AN00849 | Horn Antenna | 3115 | $3 / 18 / 2014$ | $3 / 18 / 2016$ |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Thin ZigBee-to-Ethernet <br> gateway* | Silicon Laboratories, Inc. | $130-0880-000-A 0$ | 70B3D555902A |

Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6VDC Power Supply | Triad | WDU6-800 | NA |

## Test Conditions / Notes:

The equipment under test (EUT) is stand alone on the Styrofoam table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5e cable. The computer is running Telnet which is commanding the EUT to the appropriate test frequencies.

The test frequencies are $2405 \mathrm{MHz}, 2440 \mathrm{MHz}$, and 2480 MHz .
An external AC to DC power supply is also connected to the EUT.
Nominal voltage of the EUT is 6VDC.
Frequency range of measurement, 2400 MHz to 2483.5 MHz .

Temperature: $31^{\circ} \mathrm{C}$
Relative Humidity: 44\%
Pressure: 100 kPa

Site D

LABORATORIES, INC.

## Test Data


$-6 d B$ Bandwidth, 2405 MHz Low Channel

-6dB Bandwidth, 2440 MHz Middle Channel

-6dB Bandwidth, 2480 MHz High Channel

## Test Setup Photo



### 15.247(b)(3) RF Power Output

## Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112

| Customer: | Silicon Laboratories, Inc. |
| :--- | :--- |
| Specification: | $\mathbf{1 5 . 2 4 7}(\mathbf{b})(\mathbf{3})$ Power Output (2400-2483.5 MHz) |

Work Order \#:
Test Type:
Equipment:
Manufacturer:
Model:
S/N:
15.247(b)(3) Power Output (2400-2483.5 MHz) 95499
Maximized Emissions
Test Date: 09/05/2014
Thin ZigBee-to-Ethernet gateway
Silicon Laboratories, Inc.
130-0880-000-A0
70B3D555902A

Tested By: S. Yamamoto

Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| T1 | AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |
| T2 | ANP05421 | Cable | Sucoflex 104A | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06661 | Cable | LDF1-50 | $4 / 15 / 2014$ | $4 / 15 / 2016$ |
| T4 | AN00849 | Horn Antenna | 3115 | $3 / 18 / 2014$ | $3 / 18 / 2016$ |

Equipment Under Test (* = EUT):

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Thin ZigBee-to-Ethernet gateway* | Silicon Laboratories, Inc. | 130-0880-000-A0 | 70B3D555902A |

## Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6VDC Power Supply | Triad | WDU6-800 | NA |

## Test Conditions / Notes:

The equipment under test (EUT) is stand alone on the Styrofoam table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which is commanding the EUT to the appropriate test frequencies.
The test frequencies are $2405 \mathrm{MHz}, 2440 \mathrm{MHz}$, and 2480 MHz . RBW $=1.8 \mathrm{MHz}, \mathrm{VBW}=6 \mathrm{MHz} . \mathrm{n}$ external AC to DC power supply is also connected to the EUT.
Nominal voltage of the EUT is 6VDC.

Frequency range of measurement, 2400 MHz to 2483.5 MHz .
Temperature: $30^{\circ} \mathrm{C}$
Relative Humidity: 46\%
Pressure: 100 kPa

Site D
Frequency: 2405 MHz . Firmware power setting $=0 x f f,+19 \mathrm{dBm}$
Frequency: 2440 MHz . Firmware power setting $=0 x f e,+18 \mathrm{dBm}$
Frequency: 2480 MHz . Firmware power setting $=0 x e 6,-6 \mathrm{dBm}$

Test Conditions / Notes: (continued)
Data presented below is representative of worst case emissions.
Calculations sample as follows:
From ANSI C63.10
$\mathrm{P}_{\mathrm{t}}=(\mathrm{Ex} \mathrm{d})^{2} /\left(30^{*} \mathrm{G}_{\mathrm{t}}\right)$
Where:
$\mathrm{P}_{\mathrm{t}}=$ the power in watts
$\mathrm{G}_{\mathrm{t}}=$ the numeric gain of the radiating antenna
$\mathrm{E}=$ the measured peak field strength in $\mathrm{V} / \mathrm{m}$
$\mathrm{d}=$ the distance at which the measurement was made in meters
$\mathrm{P}_{\mathrm{t}}=\mathbf{T B D}$
$\mathrm{G}_{\mathrm{t}}=2.75$ (Manufacturers declared gain)
$\mathrm{E}=115.9 \mathrm{dBuV} / \mathrm{m}=0.624 \mathrm{~V} / \mathrm{m}$
$\mathrm{d}=3$
$P_{t}=(0.624 \times 3)^{2} /(30 * 2.75)$
$P_{t}=0.0425 \mathrm{~W}$

| Frequency | Peak output power calculated from <br> measured peak field strength <br> $(\mathrm{WH})$ | 15.247(b)(3) Peak output power limit |
| :---: | :---: | :---: |
| 2405 | 0.0425 | $(\mathrm{~W})$ |
| 2440 | 0.0361 | 1 |
| 2480 | 0.00013 | 1 |

Note: The high channel power is lower than the other two channels because it is nearer to the band edge. Due to this, the power level was reduced in order to fall within the band edge requirements.

## Test Data

Measurement Data: $\quad$ Reading listed by frequency.
Test Distance: 3 Meters

| $\#$ | Freq <br> MHz | Rang <br> $\mathrm{dB} \mu \mathrm{V}$ | T 1 <br> dB | T 2 <br> dB | T 3 <br> dB | T 4 <br> dB | Dist <br> Table | Corr <br> $\mathrm{dB} \mu \mathrm{V} / \mathrm{m}$ | Spec <br> $\mathrm{dB} \mu \mathrm{V} / \mathrm{m}$ | Margin <br> dB | Polar <br> Ant |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2405.000 M | 85.4 | +0.0 | +1.1 | +4.1 | +25.3 | +0.0 | 115.9 | 127.4 | -11.5 | Horiz |
| 2 | 2440.000 M | 84.5 | +0.0 | +1.2 | +4.1 | +25.4 | +0.0 | 115.2 | 127.4 | -12.2 | Vert |
| 3 | 2480.000 M | 60.0 | +0.0 | +1.3 | +4.2 | +25.4 | +0.0 | 90.9 | 127.4 | -36.5 | Horiz |

## Test Setup Photo



LABORATORIES, INC.

### 15.31(e) Voltage Variations

## Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112
Customer: Silicon Laboratories, Inc.
Specification: 15.31(e) Voltage Variation on Power
Work Order \#: 95499
Test Type:
Equipment:
Maximized Emissions
Thin ZigBee-to-Ethernet gateway
Manufacturer: Silicon Laboratories, Inc. Tested By: S. Yamamoto
Model: $\quad 130-0880-000-A 0$
S/N: 70B3D555902A
Date: 9/10/2014

Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| T1 | AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |
| T2 | ANP05421 | Cable | Sucoflex 104A | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06661 | Cable | LDF1-50 | $4 / 15 / 2014$ | $4 / 15 / 2016$ |
| T4 | AN00849 | Horn Antenna | 3115 | $3 / 18 / 2014$ | $3 / 18 / 2016$ |

Equipment Under Test (* = EUT):

| Function <br> Thin ZigBee-to-Ethernet <br> gateway* | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |

Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| DC Power Supply | Xantrex | XTS 30-2X | 58738 |

## Test Conditions / Notes:

The equipment under test (EUT) is stand alone on the Styrofoam table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which is commanding the EUT to the appropriate test frequencies. The EUT is set at the rated output power.
The test frequencies are $2405 \mathrm{MHz}, 2440 \mathrm{MHz}$, and 2480 MHz .
An external AC to DC power supply is also connected to the EUT.
Nominal voltage of the EUT is 6VDC.
Frequency range of measurement, 2400 MHz to $2483.5 \mathrm{MHz} . \mathrm{RBW}=1.8 \mathrm{MHz}, \mathrm{VBW}=6 \mathrm{MHz}$.
Temperature: $31^{\circ} \mathrm{C}$
Relative Humidity: 44\%
Pressure: 100 kPa
Site D
Firmware power setting: $2405 \mathrm{MHz} 0 x f f 19 \mathrm{dBm}, 2440 \mathrm{MHz} 0 \mathrm{xfe} 18 \mathrm{dBm}, 2480 \mathrm{MHz} 0 \mathrm{xe} 6-6 \mathrm{dBm}$
15.31(e) Compliance: The supply voltage was varied between $85 \%$ and $115 \%$ of the nominal rated voltage of 6.0 VDC .

No change in the fundamental signal level was observed.

Test Setup Photo


LABORATORIES, INC.

### 15.247(d) Radiated Spurious Emissions and Band Edge

## Test Conditions / Setup / Data

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: Silicon Laboratories, Inc.
Specification:
15.247(d) / 15.209 Radiated Spurious Emissions

Work Order \#:
Test Type:
Equipment:
Manufacturer:
Model:
95499
Maximized Emissions
Thin ZigBee-to-Ethernet gateway
Silicon Laboratories, Inc.
130-0880-000-A0
S/N: 70B3D555902A

Date: 9/14/2014
Time: 13:44:41
Sequence\#: 2
Tested By: S. Yamamoto

Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| T1 | AN02869 | Spectrum Analyzer | E4440A | 7/10/2014 | 7/10/2015 |
| T2 | ANP05421 | Cable | Sucoflex 104A | 1/8/2014 | 1/8/2016 |
| T3 | ANP06661 | Cable | LDF1-50 | 4/15/2014 | 4/15/2016 |
| T4 | AN00786 | Preamp | 83017A | 4/25/2014 | 4/25/2016 |
| T5 | AN02946 | Cable | $\begin{aligned} & 32022-2-2909 \mathrm{~K}- \\ & 36 \mathrm{TC} \end{aligned}$ | 7/31/2013 | 7/31/2015 |
| T6 | AN00849 | Horn Antenna | 3115 | 3/18/2014 | 3/18/2016 |
| T7 | AN03385 | High Pass Filter | $\begin{aligned} & \text { 11SH10- } \\ & \text { 3000/T10000- } \\ & \text { O/O } \end{aligned}$ | 6/5/2013 | 6/5/2015 |
| T9 | AN01413 | $\begin{aligned} & \text { Horn Antenna-ANSI } \\ & \text { C63.5 }(\mathrm{dB} / \mathrm{m}) \end{aligned}$ | 84125-80008 | 11/9/2012 | 11/9/2014 |
|  | AN01413 | Horn Antenna-SAE ARP958 (dB/m) | 84125-80008 | 11/9/2012 | 11/9/2014 |
| T10 | ANP06543 | Cable | $\begin{aligned} & 32022-29094 \mathrm{~K}- \\ & 29094 \mathrm{~K}-24 \mathrm{TC} \end{aligned}$ | 11/20/2013 | 11/20/2015 |
| T11 | AN03158 | Active Horn Antenna | $\begin{aligned} & \hline \text { AMFW-5F- } \\ & 26004000-33-8 \mathrm{P} \end{aligned}$ | 12/18/2012 | 12/18/2014 |
|  | AN00309 | Preamp | 8447D | 3/12/2014 | 3/12/2016 |
|  | AN01995 | Biconilog Antenna | CBL6111C | 4/30/2014 | 4/30/2016 |
|  | ANP05050 | Cable | RG223/U | 1/21/2013 | 1/21/2015 |
|  | ANP05198 | Cable-Amplitude 15 to 45 deg C (dB) | 8268 | 12/11/2012 | 12/11/2014 |
|  | ANP05198 | Cable-Amplitude -15 to 15 deg C | 8268 | 12/11/2012 | 12/11/2014 |
|  | AN00314 | Loop Antenna | 6502 | 7/2/2014 | 7/2/2016 |
| T11 | AN | Duty Cycle Correction Factor |  | NCR | NCR |

NCR = No Calibration Required

Equipment Under Test (* = EUT):

| Function <br> Thin ZigBee-to-Ethernet <br> gateway* | Manufacturer | Silicon Laboratories, Inc. | 130-0880-000-A0 |
| :--- | :--- | :--- | :--- |

Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6VDC power adapter | Triad | WDU6-800 | NA |

## Test Conditions / Notes:

The equipment under test (EUT) is stand alone on the Styrofoam table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which is commanding the EUT to the test frequencies.
The EUT is set at its rated output power for each of the test frequencies: $2405 \mathrm{MHz}, 2440 \mathrm{MHz}$, and 2480 MHz . An external AC to 6VDC power adapter is also connected to the EUT.
Data contained within this report is worst case emissions with the EUT in three different axis systems (X, Y, and Z).

Highest frequency used or generated in the device is 4.800 GHz .
Frequency range of data sheet, 9 kHz to 40000 MHz .9 kHz to 150 kHz RBW $=200 \mathrm{~Hz}=\mathrm{VBW} .150 \mathrm{kHz}$ to 30 MHz $\mathrm{RBW}=9 \mathrm{kHz}=\mathrm{VBW} .30 \mathrm{MHz}$ to $1000 \mathrm{MHz} \mathrm{RBW}=120 \mathrm{kHz}=\mathrm{VBW} .1 \mathrm{GHz}$ to $40 \mathrm{GHz} \mathrm{RBW}=1 \mathrm{MHz}=\mathrm{VBW}$.

Temperature: $30^{\circ} \mathrm{C}$
Relative Humidity: 59\%
Pressure: 100 kPa
Site D

Data is representative of worst case emissions.
Duty Cycle Correction Factor: The Manufacturer declares maximum duty cycle applicable to the standard is $66 \%$. $20 \log (66 / 100)=-3.6$ (See Appendix A for Duty Cycle Correction Factor Calculation).

Ext Attn: 0 dB
Measurement Data: $\quad$ Reading listed by margin. Test Distance: 3 Meters


|  | $\begin{aligned} & 12397.320 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 41.7 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 53.0 | 54.0 | -1.0 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | 9757.838M | 40.2 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | $+0.0$ | 52.9 | 54.0 | -1.1 | Horiz |
| 8 | 9621.980M | 40.2 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 52.9 | 54.0 | -1.1 | Vert |
| 9 | 9621.667M | 40.2 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 52.9 | 54.0 | -1.1 | Vert |
|  | $\begin{gathered} 12402.270 \\ \mathrm{M} \end{gathered}$ | 37.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.8 | 54.0 | -1.2 | Vert |
| $11$ | $\begin{gathered} 14642.600 \\ \mathrm{M} \end{gathered}$ | 31.7 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 52.8 | 54.0 | -1.2 | Horiz |
|  | $\begin{gathered} 16832.120 \\ \mathrm{M} \end{gathered}$ | 29.6 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline-34.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.7 | 54.0 | -1.3 | Vert |
| 13 | 9617.933M | 39.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 52.6 | 54.0 | -1.4 | Vert |
|  | $\begin{aligned} & 12402.430 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 41.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.6 | 54.0 | -1.4 | Vert |
| 15 | 9761.871M | 39.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | $+0.0$ | 52.6 | 54.0 | -1.4 | Horiz |
|  | $\begin{aligned} & 12027.400 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 42.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.6 | 54.0 | -1.4 | Vert |
|  | $\begin{gathered} 14882.480 \\ \mathrm{M} \end{gathered}$ | 31.7 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.1 \\ +0.0 \end{array}$ | $+0.0$ | 52.5 | 54.0 | -1.5 | Vert |
| 18 | $\begin{gathered} 14427.100 \\ \mathrm{M} \end{gathered}$ | 31.5 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 52.5 | 54.0 | -1.5 | Horiz |
| 19 | $\begin{gathered} 12397.100 \\ \mathrm{M} \end{gathered}$ | 37.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.5 | 54.0 | -1.5 | Vert |
|  | $\begin{gathered} 16832.200 \\ \mathrm{M} \end{gathered}$ | 29.4 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.5 | 54.0 | -1.5 | Horiz |
| 21 | 9921.882M | 39.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +9.1 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 52.5 | 54.0 | -1.5 | Vert |
| 22 | 7438.508M | 45.2 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.4 | 54.0 | -1.6 | Vert |

Page 25 of 67

|  | $\begin{gathered} 14876.770 \\ M \end{gathered}$ | 31.6 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 52.4 | 54.0 | -1.6 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 9621.883 M | 39.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 52.3 | 54.0 | -1.7 | Vert |
|  | $\begin{gathered} 17082.450 \\ \mathrm{M} \end{gathered}$ | 27.7 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 52.2 | 54.0 | -1.8 | Vert |
| 26 | 9917.848M | 39.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 52.2 | 54.0 | -1.8 | Vert |
| 27 | $\begin{gathered} 14876.840 \\ M \end{gathered}$ | 31.0 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 51.8 | 54.0 | -2.2 | Horiz |
| 28 | 7321.542M | 44.3 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | +0.0 | 51.7 | 54.0 | -2.3 | Horiz |
| 29 | $\begin{gathered} 17082.220 \\ \mathrm{M} \end{gathered}$ | 27.2 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 51.7 | 54.0 | -2.3 | Vert |
| 30 | $\begin{aligned} & 12202.470 \\ & \quad \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 41.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.6 \\ +0.0 \end{array}$ | $+0.0$ | 51.7 | 54.0 | -2.3 | Vert |
| 31 | 9921.692M | 38.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 51.5 | 54.0 | -2.5 | Horiz |
| 32 | 9617.847M | 38.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 51.5 | 54.0 | -2.5 | Vert |
| 33 | 9917.795M | 38.2 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +9.1 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 51.4 | 54.0 | -2.6 | Vert |
| 34 | 9617.850M | 38.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 51.3 | 54.0 | -2.7 | Vert |
| 35 | 9917.938M | 38.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 51.2 | 54.0 | -2.8 | Horiz |
| 36 | $\begin{gathered} 14882.400 \\ \mathrm{M} \end{gathered}$ | 30.3 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 51.1 | 54.0 | -2.9 | Vert |
| 37 | 9922.063M | 38.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +9.1 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.3 \\ +0.0 \end{array}$ | $+0.0$ | 51.1 | 54.0 | -2.9 | Horiz |
| 38 | 9758.041M | 38.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | +0.0 | 51.0 | 54.0 | -3.0 | Horiz |
| 39 | $\begin{gathered} 14644.930 \\ \mathrm{M} \end{gathered}$ | 29.9 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 50.9 | 54.0 | -3.1 | Vert |

Page 26 of 67

| 40 | 9621.933M | 38.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 50.8 | 54.0 | -3.2 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41 | $\begin{gathered} 14877.130 \\ M \end{gathered}$ | 29.9 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 50.7 | 54.0 | -3.3 | Horiz |
| 42 | 9621.742M | 38.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | +0.0 | 50.7 | 54.0 | -3.3 | Vert |
| 43 | $\begin{gathered} 14642.700 \\ \mathrm{M} \end{gathered}$ | 29.6 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 50.7 | 54.0 | -3.3 | Vert |
| 44 | $\begin{aligned} & 12197.510 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 40.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | +0.0 | 50.7 | 54.0 | -3.3 | Vert |
| 45 | 9917.893M | 37.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 50.6 | 54.0 | -3.4 | Vert |
| 46 | 9917.742M | 37.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -36.3 \\ +0.0 \end{gathered}$ | $+0.0$ | 50.6 | 54.0 | -3.4 | Vert |
| 47 | 9921.927M | 37.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 50.5 | 54.0 | -3.5 | Vert |
| 48 | $\begin{gathered} 16839.070 \\ \mathrm{M} \end{gathered}$ | 27.2 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.5 \\ +0.0 \end{array}$ | $+0.0$ | 50.4 | 54.0 | -3.6 | Horiz |
| 49 | 9917.990M | 37.1 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.3 \\ +0.0 \end{array}$ | $+0.0$ | 50.3 | 54.0 | -3.7 | Vert |
| 50 | 9761.925M | 37.5 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | $+0.0$ | 50.2 | 54.0 | -3.8 | Vert |
| 51 | 9761.941M | 37.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -36.4 \\ +0.0 \end{gathered}$ | $+0.0$ | 50.2 | 54.0 | -3.8 | Horiz |
| 52 | 9757.907M | 37.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | +0.0 | 50.1 | 54.0 | -3.9 | Vert |
| 53 | 9917.640M | 36.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 50.0 | 54.0 | -4.0 | Horiz |
| 54 | 9921.980M | 36.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 49.9 | 54.0 | -4.1 | Vert |
| 55 | 9762.057M | 37.2 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -36.4 \\ +0.0 \end{gathered}$ | $+0.0$ | 49.9 | 54.0 | -4.1 | Vert |
| 56 | $\begin{gathered} 14637.600 \\ \mathrm{M} \end{gathered}$ | 28.6 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 49.7 | 54.0 | -4.3 | Vert |

Page 27 of 67

| 57 | 9921.680M | 36.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-36.3 \\ +0.0 \end{array}$ | +0.0 | 49.7 | 54.0 | -4.3 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58 | 7318.208M | 42.3 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | +0.0 | 49.7 | 54.0 | -4.3 | Vert |
| 59 | 9757.783M | 37.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | +0.0 | 49.7 | 54.0 | -4.3 | Vert |
| 60 | 9621.870M | 36.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | $+0.0$ | 49.5 | 54.0 | -4.5 | Vert |
| 61 | $\begin{aligned} & 12027.370 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 38.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 49.4 | 54.0 | -4.6 | Horiz |
|  | $\begin{gathered} 12027.370 \\ \mathrm{M} \end{gathered}$ | 45.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 60.1 | 54.0 | +6.1 | Horiz |
|  | $\begin{gathered} 12027.450 \\ \mathrm{M} \end{gathered}$ | 45.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 60.1 | 54.0 | +6.1 | Horiz |
| $\wedge$ | $\begin{gathered} 12027.400 \\ \mathrm{M} \end{gathered}$ | 45.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 59.6 | 54.0 | +5.6 | Horiz |
|  | $\begin{gathered} 12027.450 \\ \mathrm{M} \end{gathered}$ | 45.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 59.2 | 54.0 | +5.2 | Horiz |
|  | $\begin{gathered} 12027.330 \\ \mathrm{M} \end{gathered}$ | 44.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 59.0 | 54.0 | +5.0 | Horiz |
|  | $\begin{gathered} 12027.360 \\ \mathrm{M} \end{gathered}$ | 41.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | +0.0 | 56.1 | 54.0 | +2.1 | Horiz |
|  | $\begin{aligned} & 12027.450 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 38.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | $+0.0$ | 49.3 | 54.0 | -4.7 | Horiz |
|  | $\begin{gathered} 12022.320 \\ \mathrm{M} \\ \text { Ave } \\ \hline \end{gathered}$ | 38.7 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | +0.0 | 49.3 | 54.0 | -4.7 | Horiz |
|  | $\begin{gathered} \hline 12022.290 \\ \mathrm{M} \end{gathered}$ | 46.1 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 60.3 | 54.0 | +6.3 | Horiz |
| $\wedge$ | $\begin{gathered} 12022.370 \\ \mathrm{M} \end{gathered}$ | 45.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 60.1 | 54.0 | +6.1 | Horiz |
| $\wedge$ | $\begin{gathered} 12022.320 \\ \mathrm{M} \end{gathered}$ | 45.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 60.0 | 54.0 | +6.0 | Horiz |
| $\wedge$ | $\begin{gathered} 12022.330 \\ \mathrm{M} \end{gathered}$ | 45.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 59.7 | 54.0 | +5.7 | Horiz |

Page 28 of 67


Page 29 of 67


Page 30 of 67

| $\wedge$ | 9921.860M | 40.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 53.1 | 54.0 | -0.9 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge$ | 9921.920M | 35.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | $+0.0$ | 48.8 | 54.0 | -5.2 | Horiz |
| 110 | 9761.867M | 36.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +9.0 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.4 \\ +0.0 \end{array}$ | $+0.0$ | 48.7 | 54.0 | -5.3 | Vert |
| 111 | 9757.783M | 36.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | $+0.0$ | 48.7 | 54.0 | -5.3 | Horiz |
|  | $\begin{gathered} 17356.220 \\ M \\ \text { Ave } \end{gathered}$ | 22.9 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 48.7 | 54.0 | -5.3 | Vert |
|  | $\begin{gathered} 14875.760 \\ \mathrm{M} \end{gathered}$ | 27.8 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} +11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 48.6 | 54.0 | -5.4 | Horiz |
|  | $\begin{aligned} & 17076.680 \\ & M \\ & \text { Ave } \end{aligned}$ | 27.7 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.5 \\ +1.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 48.6 | 54.0 | -5.4 | Vert |
|  | $\begin{gathered} 17076.680 \\ \mathrm{M} \end{gathered}$ | 29.7 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 54.2 | 54.0 | +0.2 | Vert |
|  | $\begin{aligned} & 17075.780 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 27.7 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 48.6 | 54.0 | -5.4 | Vert |
|  | $\begin{gathered} 17075.780 \\ \mathrm{M} \end{gathered}$ | 29.6 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 54.1 | 54.0 | +0.1 | Vert |
|  | $\begin{aligned} & 12027.410 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 38.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 48.6 | 54.0 | -5.4 | Vert |
|  | $\begin{gathered} 12027.400 \\ \mathrm{M} \end{gathered}$ | 48.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | $+0.0$ | 63.1 | 54.0 | +9.1 | Vert |
| $\wedge$ | $\begin{gathered} 12027.410 \\ \mathrm{M} \end{gathered}$ | 45.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 59.6 | 54.0 | +5.6 | Vert |
| $\wedge$ | $\begin{gathered} 12027.420 \\ \mathrm{M} \end{gathered}$ | 44.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 58.6 | 54.0 | +4.6 | Vert |
|  | $\begin{gathered} 12027.380 \\ \mathrm{M} \end{gathered}$ | 44.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 58.5 | 54.0 | +4.5 | Vert |
| $\wedge$ | $\begin{gathered} 12027.370 \\ \mathrm{M} \end{gathered}$ | 43.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.8 | 54.0 | +3.8 | Vert |
| $\wedge$ | $\begin{gathered} 12027.370 \\ \mathrm{M} \end{gathered}$ | 42.1 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 56.3 | 54.0 | +2.3 | Vert |

Page 31 of 67

| 125 | 9762.030M | 35.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{gathered} -36.4 \\ +0.0 \end{gathered}$ | +0.0 | 48.6 | 54.0 | -5.4 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 126 | 9921.947M | 35.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 48.4 | 54.0 | -5.6 | Vert |
|  | $\begin{aligned} & 12022.370 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 37.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 48.4 | 54.0 | -5.6 | Horiz |
| 128 | 7318.617M | 41.0 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 48.4 | 54.0 | -5.6 | Vert |
| 129 | 9761.870M | 35.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -36.4 \\ +0.0 \end{gathered}$ | +0.0 | 48.3 | 54.0 | -5.7 | Vert |
| 130 | 9621.965M | 35.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +9.0 \\ +0.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | +0.0 | 48.2 | 54.0 | -5.8 | Horiz |
| 131 | 9617.842M | 35.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 48.2 | 54.0 | -5.8 | Vert |
|  | $\begin{gathered} 12022.330 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 37.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 48.2 | 54.0 | -5.8 | Horiz |
|  | $\begin{aligned} & 12197.380 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 33.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 48.2 | 54.0 | -5.8 | Horiz |
|  | $\begin{gathered} 12197.290 \\ \mathrm{M} \end{gathered}$ | 44.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 58.4 | 54.0 | +4.4 | Horiz |
|  | $\begin{gathered} 12197.310 \\ \mathrm{M} \end{gathered}$ | 43.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.6 \\ +0.0 \end{array}$ | +0.0 | 57.6 | 54.0 | +3.6 | Horiz |
|  | $\begin{gathered} 12197.380 \\ \mathrm{M} \end{gathered}$ | 42.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 56.6 | 54.0 | +2.6 | Horiz |
|  | $\begin{gathered} 12197.320 \\ \mathrm{M} \end{gathered}$ | 41.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 55.4 | 54.0 | +1.4 | Horiz |
|  | $\begin{aligned} & 12027.400 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 37.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 48.2 | 54.0 | -5.8 | Horiz |
|  | $\begin{gathered} 17363.250 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 22.4 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 48.2 | 54.0 | -5.8 | Horiz |
|  | $\begin{gathered} 17363.250 \\ \mathrm{M} \end{gathered}$ | 32.4 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline+3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 58.2 | 54.0 | +4.2 | Horiz |
|  | $\begin{aligned} & \text { 7321.430M } \\ & \text { Ave } \end{aligned}$ | 40.7 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 48.1 | 54.0 | -5.9 | Horiz |

Page 32 of 67

|  | $\begin{aligned} & 12027.450 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 37.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 48.1 | 54.0 | -5.9 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 143 | 9922.090M | 35.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +36.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 48.1 | 54.0 | -5.9 | Horiz |
|  | $\begin{aligned} & 12402.460 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 33.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 48.0 | 54.0 | -6.0 | Vert |
|  | $\begin{gathered} 12402.430 \\ \mathrm{M} \end{gathered}$ | 48.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 63.4 | 54.0 | +9.4 | Vert |
|  | $\begin{gathered} 12402.390 \\ \mathrm{M} \end{gathered}$ | 42.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.8 | 54.0 | +3.8 | Vert |
|  | $\begin{gathered} 12402.460 \\ \mathrm{M} \end{gathered}$ | 40.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.5 \\ +0.0 \end{gathered}$ | $+0.0$ | 55.6 | 54.0 | +1.6 | Vert |
| $\wedge$ | $\begin{gathered} 12402.400 \\ \mathrm{M} \end{gathered}$ | 38.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 53.7 | 54.0 | -0.3 | Vert |
|  | $\begin{aligned} & \hline 12397.420 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 33.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 48.0 | 54.0 | -6.0 | Vert |
|  | $\begin{gathered} 12397.350 \\ \mathrm{M} \end{gathered}$ | 42.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.7 | 54.0 | +3.7 | Vert |
|  | $\begin{gathered} 12397.420 \\ \mathrm{M} \end{gathered}$ | 41.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 56.2 | 54.0 | +2.2 | Vert |
|  | $\begin{aligned} & 14636.830 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 26.9 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 48.0 | 54.0 | -6.0 | Horiz |
|  | $7216.448 \mathrm{M}$ <br> Ave | 43.9 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{gathered} -37.0 \\ +0.0 \end{gathered}$ | $+0.0$ | 48.0 | 54.0 | -6.0 | Horiz |
|  | $\begin{aligned} & 9621.856 \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 38.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} +9.0 \\ +0.0 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ |  | 47.9 | 54.0 | -6.1 | Horiz |
| $\wedge$ | 9621.925M | 40.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | $+0.0$ | 53.4 | 54.0 | -0.6 | Horiz |
| $\wedge$ | 9621.896M | 38.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 51.6 | 54.0 | -2.4 | Horiz |
| $\wedge$ | 9621.925M | 37.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | $+0.0$ | 50.2 | 54.0 | -3.8 | Horiz |
| 158 | $\begin{aligned} & 17076.330 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 27.0 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.9 | 54.0 | -6.1 | Horiz |

Page 33 of 67

|  | $\begin{gathered} 17076.330 \\ \mathrm{M} \end{gathered}$ | 35.9 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 60.4 | 54.0 | +6.4 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 17076.300 \\ \mathrm{M} \end{gathered}$ | 32.9 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 57.4 | 54.0 | +3.4 | Horiz |
| $\wedge$ | $\begin{gathered} 17076.270 \\ M \end{gathered}$ | 30.4 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 54.9 | 54.0 | +0.9 | Horiz |
| 162 | $\begin{gathered} 21955.100 \\ \mathrm{M} \end{gathered}$ | 46.4 | $\begin{aligned} & +0.0 \\ & +2.3 \\ & +1.4 \\ & \hline \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -33.2 \\ +40.5 \end{array}$ | -9.5 | 47.9 | 54.0 | -6.1 | Vert |
| 163 | 9757.866M | 35.2 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | +0.0 | 47.9 | 54.0 | -6.1 | Vert |
| $164$ | $7213.423 \mathrm{M}$ <br> Ave | 43.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-37.0 \\ +0.0 \end{array}$ | $+0.0$ | 47.9 | 54.0 | -6.1 | Horiz |
|  | $\begin{aligned} & 17083.480 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 27.0 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} +12.5 \\ +1.4 \\ -3.6 \end{array}$ | $\begin{array}{r} \hline-34.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.9 | 54.0 | -6.1 | Horiz |
|  | $\begin{gathered} 17083.480 \\ M \end{gathered}$ | 35.4 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 59.9 | 54.0 | +5.9 | Horiz |
|  | $\begin{gathered} 17083.430 \\ \mathrm{M} \end{gathered}$ | 32.5 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 57.0 | 54.0 | +3.0 | Horiz |
|  | $\begin{aligned} & 12022.330 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 37.2 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.8 | 54.0 | -6.2 | Horiz |
|  | $\begin{aligned} & 17083.300 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 23.3 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.8 | 54.0 | -6.2 | Horiz |
|  | $\begin{gathered} 17083.300 \\ \mathrm{M} \end{gathered}$ | 32.4 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline-34.3 \\ +0.0 \end{array}$ | $+0.0$ | 56.9 | 54.0 | +2.9 | Horiz |
| $171$ | $\begin{gathered} 12027.330 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 37.2 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 47.8 | 54.0 | -6.2 | Horiz |
| $172$ | $\begin{aligned} & 17076.330 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 23.3 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.8 | 54.0 | -6.2 | Vert |
|  | $\begin{gathered} 17076.330 \\ M \end{gathered}$ | 33.7 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 58.2 | 54.0 | +4.2 | Vert |
|  | $\begin{aligned} & 12027.420 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 37.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.7 | 54.0 | -6.3 | Vert |
| 175 | $\begin{aligned} & 17083.430 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 23.2 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.7 | 54.0 | -6.3 | Vert |

Page 34 of 67

| $\begin{gathered} \wedge \\ 17083.430 \\ M \end{gathered}$ | 32.8 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 57.3 | 54.0 | +3.3 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} 17083.360 \\ M \end{gathered}$ | 29.6 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 54.1 | 54.0 | +0.1 | Vert |
| $\begin{array}{cc} 178 & 21955.050 \\ M \end{array}$ | 46.2 | $\begin{aligned} & +0.0 \\ & +2.3 \\ & +1.4 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -33.2 \\ +40.5 \end{array}$ | -9.5 | 47.7 | 54.0 | -6.3 | Horiz |
| $\begin{aligned} & 1797438.398 \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 40.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.7 | 54.0 | -6.3 | Vert |
| 180 9761.675M | 35.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -36.4 \\ +0.0 \end{gathered}$ | $+0.0$ | 47.7 | 54.0 | -6.3 | Vert |
| $\begin{aligned} & 1817441.499 \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 40.4 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.6 | 54.0 | -6.4 | Vert |
| $\begin{aligned} & 1827213.400 \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 43.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+7.8 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{gathered} -37.0 \\ +0.0 \end{gathered}$ | $+0.0$ | 47.6 | 54.0 | -6.4 | Horiz |
| $\begin{array}{cc} 183 & 12197.290 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}$ | 36.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | $+0.0$ | 47.6 | 54.0 | -6.4 | Horiz |
|  | 26.5 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline-35.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.5 | 54.0 | -6.5 | Horiz |
| $\begin{gathered} \wedge \\ \hline 14432.980 \\ M \end{gathered}$ | 35.4 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 56.4 | 54.0 | +2.4 | Horiz |
| $\begin{array}{cc} \wedge & 14432.950 \\ M \end{array}$ | 35.2 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} +11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 56.2 | 54.0 | +2.2 | Horiz |
| $\begin{gathered} \wedge \\ 14433.010 \\ M \end{gathered}$ | 30.2 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 51.2 | 54.0 | -2.8 | Horiz |
| $188 \quad 12202.350$ M Ave | 36.8 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 47.5 | 54.0 | -6.5 | Horiz |
| $\begin{gathered} \wedge 12202.280 \\ M \end{gathered}$ | 43.2 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | $+0.0$ | 57.5 | 54.0 | +3.5 | Horiz |
| $\begin{gathered} 190 \quad 12022.330 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 36.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.5 | 54.0 | -6.5 | Vert |
| $\begin{aligned} & 1917318.533 \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 40.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | $+0.0$ | 47.5 | 54.0 | -6.5 | Horiz |
| $\wedge 7318.533 \mathrm{M}$ | 47.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | $+0.0$ | 55.2 | 54.0 | +1.2 | Horiz |

Page 35 of 67

|  | $\begin{aligned} & \hline 14426.640 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 26.5 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} +11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline-35.3 \\ +0.0 \end{array}$ | +0.0 | 47.5 | 54.0 | -6.5 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 14426.600 \\ \text { M } \end{gathered}$ | 36.1 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.3 \\ +0.0 \end{array}$ | +0.0 | 57.1 | 54.0 | +3.1 | Horiz |
|  | $\begin{gathered} 14426.640 \\ \text { M } \end{gathered}$ | 36.0 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.3 \\ +0.0 \end{array}$ | +0.0 | 57.0 | 54.0 | +3.0 | Horiz |
| $196$ | $7216.450 \mathrm{M}$ <br> Ave | 43.4 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & -3.6 \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | +0.0 | 47.5 | 54.0 | -6.5 | Horiz |
| 197 | 9761.917M | 34.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.6 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.4 \\ +0.0 \end{array}$ | +0.0 | 47.5 | 54.0 | -6.5 | Vert |
| $198$ | $\begin{aligned} & \text { 9617.807M } \\ & \text { Ave } \end{aligned}$ | 38.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +9.0 \\ +0.0 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | $+0.0$ | 47.5 | 54.0 | -6.5 | Horiz |
| $\wedge$ | 9617.807M | 45.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | $+0.0$ | 58.0 | 54.0 | +4.0 | Horiz |
| $\wedge$ | 9617.780M | 39.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 52.5 | 54.0 | -1.5 | Horiz |
| $\wedge$ | 9617.825M | 39.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+9.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 52.0 | 54.0 | -2.0 | Horiz |
| $\wedge$ | 9617.779M | 39.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 51.7 | 54.0 | -2.3 | Horiz |
| $\wedge$ | 9617.818M | 38.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | $+0.0$ | 51.5 | 54.0 | -2.5 | Horiz |
| $\wedge$ | 9617.765M | 36.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 48.7 | 54.0 | -5.3 | Horiz |
|  | $\begin{gathered} 14643.030 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 26.3 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | +0.0 | 47.4 | 54.0 | -6.6 | Horiz |
|  | $\begin{aligned} & 12197.320 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 33.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.6 \\ +0.0 \end{array}$ | $+0.0$ | 47.4 | 54.0 | -6.6 | Horiz |
| $207$ | $\begin{aligned} & \text { 7321.414M } \\ & \text { Ave } \end{aligned}$ | 40.0 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -37.4 \\ +0.0 \end{gathered}$ | +0.0 | 47.4 | 54.0 | -6.6 | Horiz |
| $\wedge$ | 7321.430M | 48.3 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 55.7 | 54.0 | +1.7 | Horiz |
| $\wedge$ | 7321.414M | 47.4 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | +0.0 | 54.8 | 54.0 | +0.8 | Horiz |

Page 36 of 67

| $\wedge$ | 7321.422M | 47.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | $+0.0$ | 54.4 | 54.0 | +0.4 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge$ | 7321.438M | 46.5 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | $+0.0$ | 53.9 | 54.0 | -0.1 | Horiz |
|  | $\begin{aligned} & 12197.410 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 33.1 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 47.4 | 54.0 | -6.6 | Vert |
|  | $\begin{gathered} 12197.510 \\ \mathrm{M} \end{gathered}$ | 47.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 61.9 | 54.0 | +7.9 | Vert |
|  | $\begin{gathered} 12197.320 \\ \mathrm{M} \end{gathered}$ | 42.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 56.3 | 54.0 | +2.3 | Vert |
|  | $\begin{gathered} 12197.410 \\ \mathrm{M} \end{gathered}$ | 41.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 55.9 | 54.0 | +1.9 | Vert |
|  | $\begin{gathered} 12197.350 \\ \mathrm{M} \end{gathered}$ | 40.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 54.7 | 54.0 | +0.7 | Vert |
|  | $\begin{gathered} 12197.450 \\ \mathrm{M} \end{gathered}$ | 39.2 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 53.5 | 54.0 | -0.5 | Vert |
|  | $\begin{gathered} 12197.420 \\ \mathrm{M} \end{gathered}$ | 37.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 51.3 | 54.0 | -2.7 | Vert |
|  | $\begin{aligned} & 12202.540 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 33.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 47.3 | 54.0 | -6.7 | Vert |
|  | $\begin{gathered} 12202.470 \\ \mathrm{M} \end{gathered}$ | 48.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 63.1 | 54.0 | +9.1 | Vert |
|  | $\begin{gathered} 12202.450 \\ \mathrm{M} \end{gathered}$ | 41.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 55.7 | 54.0 | +1.7 | Vert |
|  | $\begin{gathered} 12202.540 \\ \mathrm{M} \end{gathered}$ | 40.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 55.0 | 54.0 | +1.0 | Vert |
|  | $\begin{gathered} 12202.520 \\ \mathrm{M} \end{gathered}$ | 38.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 52.9 | 54.0 | -1.1 | Vert |
|  | $\begin{aligned} & 12202.390 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 33.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ |  | 47.3 | 54.0 | -6.7 | Horiz |
| $225$ | $\begin{aligned} & 16838.380 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 24.1 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.3 | 54.0 | -6.7 | Vert |
| $\wedge$ | $\begin{gathered} 16838.380 \\ \mathrm{M} \end{gathered}$ | 32.6 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \end{array}$ | $\begin{array}{r} +12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 55.8 | 54.0 | +1.8 | Vert |

Page 37 of 67

|  | $\begin{aligned} & 14432.950 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 26.3 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 47.3 | 54.0 | -6.7 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 12397.280 \\ \mathrm{M} \\ \text { Ave } \end{gathered}$ | 35.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 47.2 | 54.0 | -6.8 | Horiz |
|  | $\begin{aligned} & 14426.850 \\ & M \\ & \text { Ave } \end{aligned}$ | 26.2 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.2 | 54.0 | -6.8 | Horiz |
|  | $\begin{gathered} 16831.180 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 24.1 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.2 | 54.0 | -6.8 | Vert |
|  | $\begin{gathered} 12197.350 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 32.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 47.2 | 54.0 | -6.8 | Vert |
|  | $\begin{gathered} 12197.290 \\ \mathrm{M} \end{gathered}$ | 38.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 53.0 | 54.0 | -1.0 | Vert |
|  | $\begin{gathered} 17076.270 \\ \mathrm{M} \\ \text { Ave } \\ \hline \end{gathered}$ | 22.6 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 47.1 | 54.0 | -6.9 | Horiz |
|  | $\begin{aligned} & 12027.380 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 36.5 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 47.1 | 54.0 | -6.9 | Vert |
|  | $\begin{gathered} 16831.180 \\ \mathrm{M} \\ \text { Ave } \end{gathered}$ | 24.0 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} +12.3 \\ +1.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 47.1 | 54.0 | -6.9 | Horiz |
|  | $\begin{gathered} 16831.230 \\ \mathrm{M} \end{gathered}$ | 31.7 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 54.8 | 54.0 | +0.8 | Horiz |
|  | $\begin{aligned} & 12202.450 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 32.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 47.1 | 54.0 | -6.9 | Vert |
|  | $\begin{gathered} 12202.370 \\ \mathrm{M} \end{gathered}$ | 42.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 56.9 | 54.0 | +2.9 | Vert |
|  | $\begin{gathered} 12202.370 \\ \mathrm{M} \end{gathered}$ | 39.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 54.1 | 54.0 | +0.1 | Vert |
|  | $\begin{gathered} 14636.730 \\ M \\ \text { Ave } \end{gathered}$ | 26.0 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 47.1 | 54.0 | -6.9 | Horiz |
| 241 | 9918.000M | 33.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+2.7 \\ +36.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.1 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -36.3 \\ +0.0 \end{array}$ | +0.0 | 47.1 | 54.0 | -6.9 | Vert |
|  | $\begin{aligned} & \hline 14432.800 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 25.9 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ |  | 46.9 | 54.0 | -7.1 | Horiz |
| $\wedge$ | $\begin{gathered} 14432.770 \\ \mathrm{M} \end{gathered}$ | 35.6 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 56.6 | 54.0 | +2.6 | Horiz |

Page 38 of 67

| $\begin{gathered} \wedge \\ \hline 14432.800 \\ M \end{gathered}$ | 35.3 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 56.3 | 54.0 | +2.3 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{cc} 245 & 12022.310 \\ \mathrm{M} \\ \text { Ave } \end{array}$ | 36.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 46.9 | 54.0 | -7.1 | Vert |
| $\begin{gathered} \hline 246 \quad 12397.320 \\ \text { M } \\ \text { Ave } \end{gathered}$ | 35.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 46.9 | 54.0 | -7.1 | Horiz |
| $\begin{gathered} \wedge 12397.280 \\ M \end{gathered}$ | 44.3 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 59.2 | 54.0 | +5.2 | Horiz |
| $\begin{gathered} 12397.320 \\ M \end{gathered}$ | 43.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.9 | 54.0 | +3.9 | Horiz |
| $\begin{gathered} \wedge 12397.320 \\ M \end{gathered}$ | 42.8 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.7 | 54.0 | +3.7 | Horiz |
| $\begin{gathered} \wedge 12397.310 \\ M \end{gathered}$ | 42.2 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.1 | 54.0 | +3.1 | Horiz |
| $\begin{gathered} \wedge 12397.340 \\ M \end{gathered}$ | 41.9 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 56.8 | 54.0 | +2.8 | Horiz |
| $\begin{gathered} \wedge 12397.360 \\ M \end{gathered}$ | 40.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 54.9 | 54.0 | +0.9 | Horiz |
| $\begin{array}{cc} 253 & 12397.350 \\ \text { M } \\ \text { Ave } \end{array}$ | 35.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.9 | 54.0 | -7.1 | Vert |
| $\begin{gathered} \wedge 12397.320 \\ \mathrm{M} \end{gathered}$ | 49.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 64.0 | 54.0 | +10.0 | Vert |
| $\begin{array}{cc} \hline 255 & 17356.410 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}$ | 21.1 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} +12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.9 | 54.0 | -7.1 | Horiz |
| $\begin{gathered} 17356.410 \\ \mathrm{M} \end{gathered}$ | 32.5 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 58.3 | 54.0 | +4.3 | Horiz |
| $\begin{gathered} 25714432.770 \\ \text { Ave } \\ \hline \end{gathered}$ | 25.9 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 46.9 | 54.0 | -7.1 | Horiz |
| $\begin{gathered} 2587213.383 \mathrm{M} \\ \text { Ave } \end{gathered}$ | $42.7$ | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \end{array}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ |  | 46.8 | 54.0 | -7.2 | Vert |
| $\wedge 7213.417 \mathrm{M}$ | 51.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 59.4 | 54.0 | +5.4 | Vert |
| $\wedge 7213.383 \mathrm{M}$ | 50.2 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 57.9 | 54.0 | +3.9 | Vert |

Page 39 of 67


Page 40 of 67

|  | $\begin{gathered} 14426.910 \\ M \end{gathered}$ | 32.6 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline-35.3 \\ +0.0 \end{array}$ | $+0.0$ | 53.6 | 54.0 | -0.4 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 12402.400 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 35.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.7 | 54.0 | -7.3 | Horiz |
|  | $\begin{aligned} & 12402.450 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 35.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.7 | 54.0 | -7.3 | Horiz |
|  | $\begin{gathered} 12402.450 \\ \mathrm{M} \end{gathered}$ | 43.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 58.3 | 54.0 | +4.3 | Horiz |
|  | $\begin{gathered} 12402.400 \\ \mathrm{M} \end{gathered}$ | 43.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 58.0 | 54.0 | +4.0 | Horiz |
|  | $\begin{gathered} 12402.430 \\ \mathrm{M} \end{gathered}$ | 42.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.0 | 54.0 | +3.0 | Horiz |
|  | $\begin{gathered} 12402.410 \\ \mathrm{M} \end{gathered}$ | 41.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 56.8 | 54.0 | +2.8 | Horiz |
| $\wedge$ | $\begin{gathered} 12402.390 \\ \mathrm{M} \end{gathered}$ | 41.7 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 56.6 | 54.0 | +2.6 | Horiz |
|  | $\begin{gathered} 12402.370 \\ \mathrm{M} \end{gathered}$ | 38.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 53.5 | 54.0 | -0.5 | Horiz |
| $287$ | $\begin{gathered} 21964.250 \\ \mathrm{M} \end{gathered}$ | 45.2 | $\begin{aligned} & \hline+0.0 \\ & +2.3 \\ & +1.4 \\ & \hline \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -33.2 \\ +40.5 \end{array}$ | -9.5 | 46.7 | 54.0 | -7.3 | Horiz |
| $288$ | $\begin{aligned} & \hline 14642.780 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 25.6 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.7 | 54.0 | -7.3 | Horiz |
|  | $\begin{gathered} 14642.780 \\ \mathrm{M} \end{gathered}$ | 35.5 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.2 \\ +0.0 \end{array}$ | $+0.0$ | 56.6 | 54.0 | +2.6 | Horiz |
|  | $\begin{aligned} & 12397.360 \\ & \quad \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 31.7 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.6 | 54.0 | -7.4 | Horiz |
|  | $\begin{gathered} 14636.820 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 25.5 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.6 | 54.0 | -7.4 | Vert |
|  | $\begin{gathered} 14636.820 \\ \text { M } \end{gathered}$ | 34.7 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 55.8 | 54.0 | +1.8 | Vert |
|  | $\begin{gathered} 14636.730 \\ M \end{gathered}$ | 32.9 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.2 \\ +0.0 \end{array}$ | $+0.0$ | 54.0 | 54.0 | $+0.0$ | Vert |
| $\wedge$ | $\begin{gathered} 14636.890 \\ \mathrm{M} \end{gathered}$ | 32.7 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 53.8 | 54.0 | -0.2 | Vert |

Page 41 of 67

|  | $\begin{aligned} & 12202.360 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 35.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.6 \\ +0.0 \end{array}$ | $+0.0$ | 46.5 | 54.0 | -7.5 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 14426.600 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 25.5 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 46.5 | 54.0 | -7.5 | Horiz |
|  | $\begin{aligned} & 17075.990 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 22.0 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 46.5 | 54.0 | -7.5 | Horiz |
|  | $\begin{gathered} \hline 17075.990 \\ \mathrm{M} \end{gathered}$ | 30.4 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} +12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.3 \\ +0.0 \end{array}$ | +0.0 | 54.9 | 54.0 | +0.9 | Horiz |
| $299$ | $\begin{aligned} & 9621.770 \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 33.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -36.1 \\ +0.0 \end{array}$ | +0.0 | 46.5 | 54.0 | -7.5 | Horiz |
| $\wedge$ | 9621.856M | 46.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | $+0.0$ | 58.7 | 54.0 | +4.7 | Horiz |
| $\wedge$ | 9621.770M | 42.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.7 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +9.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-36.1 \\ +0.0 \end{array}$ | +0.0 | 54.7 | 54.0 | +0.7 | Horiz |
|  | $\begin{aligned} & 17355.760 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 20.7 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 46.5 | 54.0 | -7.5 | Horiz |
|  | $\begin{gathered} 17355.760 \\ \mathrm{M} \end{gathered}$ | 29.9 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 55.7 | 54.0 | +1.7 | Horiz |
|  | $\begin{aligned} & 12197.310 \\ & \quad \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 35.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | +0.0 | 46.5 | 54.0 | -7.5 | Horiz |
|  | $\begin{aligned} & 12022.250 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 35.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 46.5 | 54.0 | -7.5 | Vert |
|  | $\begin{aligned} & 17356.250 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 24.2 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.7 \\ +1.7 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.2 \\ +0.0 \end{array}$ | +0.0 | 46.4 | 54.0 | -7.6 | Vert |
|  | $\begin{gathered} 17356.250 \\ M \end{gathered}$ | 34.8 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 60.6 | 54.0 | +6.6 | Vert |
|  | $\begin{gathered} 17356.220 \\ \mathrm{M} \end{gathered}$ | 32.5 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 58.3 | 54.0 | +4.3 | Vert |
|  | $\begin{aligned} & 14882.860 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 25.6 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.1 \\ +0.0 \end{array}$ | +0.0 | 46.4 | 54.0 | -7.6 | Horiz |
|  | $\begin{gathered} 14882.860 \\ \mathrm{M} \end{gathered}$ | 34.4 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | +0.0 | 55.2 | 54.0 | +1.2 | Horiz |
| $\wedge$ | $\begin{gathered} 14882.930 \\ \text { M } \end{gathered}$ | 33.0 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | +0.0 | 53.8 | 54.0 | -0.2 | Horiz |

Page 42 of 67

| $\begin{gathered} \hline 3127321.440 \mathrm{M} \\ \text { Ave } \end{gathered}$ | 42.6 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+7.8 \\ +0.2 \\ -3.6 \end{array}$ | $\begin{gathered} \hline-37.4 \\ +0.0 \end{gathered}$ | +0.0 | 46.4 | 54.0 | -7.6 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{cc} 313 & 12027.370 \\ \mathrm{M} \\ \text { Ave } \end{array}$ | 35.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \end{array}$ | $\begin{array}{r} +10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 46.4 | 54.0 | -7.6 | Vert |
| $\begin{array}{cc} \hline 314 & 17355.470 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}$ | 20.5 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.3 | 54.0 | -7.7 | Vert |
| $\begin{gathered} \wedge \\ 17355.470 \\ M \end{gathered}$ | 31.6 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 57.4 | 54.0 | +3.4 | Vert |
| $\begin{gathered} \hline 316 \quad 17363.650 \\ \text { M } \\ \text { Ave } \end{gathered}$ | 24.1 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 46.3 | 54.0 | -7.7 | Vert |
| $\begin{gathered} \wedge \\ 17363.650 \\ M \end{gathered}$ | 32.4 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | +0.0 | 58.2 | 54.0 | +4.2 | Vert |
| $\begin{array}{cc} \hline 318 & 16837.870 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}$ | 26.7 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 46.3 | 54.0 | -7.7 | Vert |
| $\begin{gathered} \wedge 16837.870 \\ M \end{gathered}$ | 30.7 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 53.9 | 54.0 | -0.1 | Vert |
| $\begin{array}{cc} \hline 320 & 17076.220 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}$ | 21.8 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.3 \\ +0.0 \end{array}$ | +0.0 | 46.3 | 54.0 | -7.7 | Vert |
| $\begin{gathered} 17076.220 \\ M \end{gathered}$ | 30.6 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | +0.0 | 55.1 | 54.0 | +1.1 | Vert |
| $\begin{gathered} 322 \begin{array}{c} 12402.430 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}{ }^{2} \\ \hline \end{gathered}$ | 35.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 46.3 | 54.0 | -7.7 | Horiz |
| $\begin{gathered} 3237438.325 \mathrm{M} \\ \text { Ave } \end{gathered}$ | 39.0 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 46.2 | 54.0 | -7.8 | Horiz |
| $\wedge 7438.413 \mathrm{M}$ | 49.4 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 56.6 | 54.0 | +2.6 | Horiz |
| $\wedge 7438.325 \mathrm{M}$ | 47.6 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 54.8 | 54.0 | +0.8 | Horiz |
| $\wedge 7438.342 \mathrm{M}$ | 47.0 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 54.2 | 54.0 | +0.2 | Horiz |
| ^ 7438.370M | 46.5 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 53.7 | 54.0 | -0.3 | Horiz |
| $\wedge 7438.357 \mathrm{M}$ | 46.4 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 53.6 | 54.0 | -0.4 | Horiz |

Page 43 of 67

| $\wedge$ | 7438.413M | 43.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 50.8 | 54.0 | -3.2 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 17353.820 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 20.4 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.2 | 54.0 | -7.8 | Horiz |
|  | $\begin{gathered} 17353.820 \\ \mathrm{M} \end{gathered}$ | 30.2 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} +12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 56.0 | 54.0 | $+2.0$ | Horiz |
| $332$ | $7216.425 \mathrm{M}$ <br> Ave | 42.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 46.2 | 54.0 | -7.8 | Horiz |
| $\wedge$ | 7216.448M | 52.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline+2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | +0.0 | 59.7 | 54.0 | +5.7 | Horiz |
| $\wedge$ | 7216.450M | 51.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 58.7 | 54.0 | +4.7 | Horiz |
| $\wedge$ | 7216.425M | 49.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 57.2 | 54.0 | +3.2 | Horiz |
| $\wedge$ | 7216.400M | 49.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 56.8 | 54.0 | +2.8 | Horiz |
| $\wedge$ | 7216.383M | 48.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 56.6 | 54.0 | +2.6 | Horiz |
| $\wedge$ | 7216.408 M | 43.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | +0.0 | 51.4 | 54.0 | -2.6 | Horiz |
| $339$ | $\begin{aligned} & 16838.530 \\ & \mathrm{M} \\ & \text { Ave } \end{aligned}$ | 26.6 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.2 | 54.0 | -7.8 | Horiz |
|  | $\begin{gathered} 16838.530 \\ \mathrm{M} \end{gathered}$ | 31.1 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 54.3 | 54.0 | $+0.3$ | Horiz |
| $341$ | $\begin{aligned} & \text { 7318.414M } \\ & \text { Ave } \end{aligned}$ | 42.4 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 46.2 | 54.0 | -7.8 | Vert |
| $342$ | $\begin{aligned} & \hline 17357.140 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 20.3 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.1 | 54.0 | -7.9 | Horiz |
|  | $\begin{gathered} 17357.190 \\ \mathrm{M} \end{gathered}$ | 30.1 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 55.9 | 54.0 | +1.9 | Horiz |
|  | $\begin{gathered} 17357.140 \\ \mathrm{M} \end{gathered}$ | 30.0 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 55.8 | 54.0 | +1.8 | Horiz |
| $345$ | $\begin{aligned} & 14433.010 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 25.1 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 46.1 | 54.0 | -7.9 | Vert |

Page 44 of 67

|  | $\begin{gathered} 14433.080 \\ \text { M } \end{gathered}$ | 34.0 | $\begin{aligned} & +0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} +11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 55.0 | 54.0 | +1.0 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 17357.850 \\ & M \\ & \text { Ave } \end{aligned}$ | 20.3 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline+3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.1 | 54.0 | -7.9 | Vert |
|  | $\begin{gathered} 17357.850 \\ \mathrm{M} \end{gathered}$ | 30.9 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.2 \\ +0.0 \end{array}$ | $+0.0$ | 56.7 | 54.0 | +2.7 | Vert |
|  | $\begin{gathered} 17357.190 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 20.3 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.1 | 54.0 | -7.9 | Horiz |
|  | $7441.417 \mathrm{M}$ <br> Ave | 38.9 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.1 | 54.0 | -7.9 | Vert |
| $\wedge$ | 7441.325M | 41.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 48.9 | 54.0 | -5.1 | Vert |
|  | $\begin{gathered} 12397.310 \\ \text { M } \\ \text { Ave } \end{gathered}$ | 34.8 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 46.1 | 54.0 | -7.9 | Horiz |
|  | $\begin{gathered} 14643.070 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 24.9 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.0 | 54.0 | -8.0 | Vert |
|  | $\begin{gathered} 14643.070 \\ \mathrm{M} \end{gathered}$ | 35.3 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline-35.2 \\ +0.0 \end{array}$ | $+0.0$ | 56.4 | 54.0 | +2.4 | Vert |
|  | $\begin{gathered} 14643.080 \\ \mathrm{M} \end{gathered}$ | 32.7 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 53.8 | 54.0 | -0.2 | Vert |
|  | $\begin{gathered} 14643.000 \\ \text { M } \end{gathered}$ | 32.6 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 53.7 | 54.0 | -0.3 | Vert |
|  | $\begin{gathered} 12397.320 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 34.7 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 46.0 | 54.0 | -8.0 | Horiz |
|  | $7216.400 \mathrm{M}$ <br> Ave | 41.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 46.0 | 54.0 | -8.0 | Horiz |
|  | $\begin{aligned} & 17357.310 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 20.2 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.7 \\ +40.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.0 | 54.0 | $-8.0$ | Vert |
|  | $\begin{gathered} 17357.310 \\ \mathrm{M} \end{gathered}$ | 29.4 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline+3.7 \\ +40.0 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.7 \\ +1.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.2 \\ +0.0 \end{array}$ | $+0.0$ | 55.2 | 54.0 | +1.2 | Vert |
|  | $\begin{aligned} & \hline 14636.840 \\ & \quad \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 24.9 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.2 \\ +0.0 \end{array}$ | $+0.0$ | 46.0 | 54.0 | $-8.0$ | Horiz |
| $\wedge$ | $\begin{gathered} 14636.830 \\ \mathrm{M} \end{gathered}$ | 35.0 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | +0.0 | 56.1 | 54.0 | +2.1 | Horiz |

Page 45 of 67

| $\begin{gathered} \wedge 14636.820 \\ M \end{gathered}$ | 33.6 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 54.7 | 54.0 | +0.7 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \wedge \\ 14636.840 \\ M \end{gathered}$ | 33.2 | $\begin{aligned} & \hline+0.0 \\ & +1.8 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | $+0.0$ | 54.3 | 54.0 | +0.3 | Horiz |
| $\begin{gathered} 3657213.365 \mathrm{M} \\ \text { Ave } \end{gathered}$ | 41.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline+2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 45.9 | 54.0 | -8.1 | Horiz |
| $\wedge 7213.423 \mathrm{M}$ | 50.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-37.0 \\ +0.0 \end{array}$ | $+0.0$ | 58.5 | 54.0 | +4.5 | Horiz |
| $\wedge 7213.400 \mathrm{M}$ | 50.3 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 58.0 | 54.0 | +4.0 | Horiz |
| $\wedge 7213.365 \mathrm{M}$ | 48.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 56.6 | 54.0 | +2.6 | Horiz |
| $\wedge 7213.446 \mathrm{M}$ | 48.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 56.5 | 54.0 | +2.5 | Horiz |
| $\wedge 7213.383 \mathrm{M}$ | 47.4 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-37.0 \\ +0.0 \end{array}$ | $+0.0$ | 55.1 | 54.0 | +1.1 | Horiz |
| ^ 7213.458M | 42.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 50.5 | 54.0 | -3.5 | Horiz |
| $\begin{array}{ll} \hline 372 & 12202.370 \end{array}$ <br> M Ave | 35.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | $+0.0$ | 45.8 | 54.0 | -8.2 | Vert |
| $\begin{gathered} 12202.340 \\ \mathrm{M} \end{gathered}$ | 39.0 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.6 \\ +0.0 \end{array}$ | $+0.0$ | 53.3 | 54.0 | -0.7 | Vert |
| $\begin{array}{cc} \hline 374 & 12402.410 \\ \text { A } \\ \text { Ave } \\ \hline \end{array}$ | 34.4 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.5 \\ +0.0 \end{array}$ | $+0.0$ | 45.7 | 54.0 | -8.3 | Horiz |
| $\begin{gathered} 375 \text { 7213.446M } \\ \text { Ave } \end{gathered}$ | 41.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 45.7 | 54.0 | -8.3 | Horiz |
| $\begin{gathered} 3767438.413 \mathrm{M} \\ \text { Ave } \end{gathered}$ | 42.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 45.7 | 54.0 | -8.3 | Horiz |
| $\begin{gathered} \hline 377 \quad 17076.230 \\ \text { M } \\ \text { Ave } \end{gathered}$ | 24.8 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 45.7 | 54.0 | -8.3 | Horiz |
| $\begin{gathered} 17076.230 \\ M \end{gathered}$ | 33.6 | $\begin{aligned} & +0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 58.1 | 54.0 | +4.1 | Horiz |
| 379 4809.000M | 44.2 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{array}{r} +6.1 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -37.8 \\ +0.0 \end{array}$ | $+0.0$ | 45.6 | 54.0 | -8.4 | Vert |

Page 46 of 67

|  | $\begin{gathered} 14636.820 \\ M \\ \text { Ave } \end{gathered}$ | 24.5 | $\begin{aligned} & +0.0 \\ & +1.8 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline+3.3 \\ +39.4 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.2 \\ +0.0 \end{array}$ | +0.0 | 45.6 | 54.0 | -8.4 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge$ | 14636.730 | 34.6 | $+0.0$ | +3.3 | +11.6 | -35.2 | $+0.0$ | 55.7 | 54.0 | +1.7 | Horiz |
| M |  |  | +1.8 | +39.4 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| 382 | 16838.530 | 22.4 | +0.0 | +3.6 | +12.3 | -34.5 | +0.0 | 45.6 | 54.0 | -8.4 | Vert |
|  | M |  | +2.2 | +38.4 | +1.2 | +0.0 |  |  |  |  |  |
| Ave |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 16838.530 | 31.9 | +0.0 | +3.6 | +12.3 | -34.5 | $+0.0$ | 55.1 | 54.0 | +1.1 | Vert |
| M |  |  | +2.2 | +38.4 | +1.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
|  | 7213.420M | 41.4 | +0.0 | +2.4 | +7.8 | -37.0 | +0.0 | 45.5 | 54.0 | -8.5 | Vert |
| Ave |  |  | +1.2 | +33.1 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | -3.6 |  |  |  |  |  |  |
| 385 | 14643.010 | 24.4 | +0.0 | +3.3 | +11.6 | -35.2 | +0.0 | 45.5 | 54.0 | -8.5 | Horiz |
|  | M |  | +1.8 | +39.4 | +0.2 | +0.0 |  |  |  |  |  |
| Ave |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14643.030 | 37.1 | +0.0 | +3.3 | +11.6 | -35.2 | +0.0 | 58.2 | 54.0 | +4.2 | Horiz |
| M |  |  | +1.8 | +39.4 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14642.970 | 34.4 | +0.0 | +3.3 | +11.6 | -35.2 | +0.0 | 55.5 | 54.0 | +1.5 | Horiz |
| M |  |  | +1.8 | +39.4 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14643.010 | 34.0 | +0.0 | +3.3 | +11.6 | -35.2 | +0.0 | 55.1 | 54.0 | +1.1 | Horiz |
| M |  |  | +1.8 | +39.4 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| 389 | 4810.900M | 44.1 | +0.0 | +1.9 | +6.1 | -37.8 | +0.0 | 45.5 | 54.0 | -8.5 | Vert |
|  |  |  | +1.2 | +29.9 | +0.1 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| 390 | $\begin{aligned} & 14426.610 \\ & \quad \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 28.1 | +0.0 | +3.3 | +11.6 | -35.3 | +0.0 | 45.5 | 54.0 | -8.5 | Vert |
|  |  |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | -3.6 |  |  |  |  |  |  |
|  | 14426.610 | 33.6 | $+0.0$ | +3.3 | +11.6 | -35.3 | $+0.0$ | 54.6 | 54.0 | +0.6 | Vert |
|  | M |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14426.680 | 32.0 | +0.0 | +3.3 | +11.6 | -35.3 | +0.0 | 53.0 | 54.0 | -1.0 | Vert |
| M |  |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| 393 | 14432.930 | 24.5 | +0.0 | +3.3 | +11.6 | -35.3 | +0.0 | 45.5 | 54.0 | -8.5 | Vert |
|  | M |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
| Ave |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14432.930 | 33.8 | +0.0 | +3.3 | +11.6 | -35.3 | $+0.0$ | 54.8 | 54.0 | $+0.8$ | Vert |
| M |  |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14433.010 | 33.7 | +0.0 | +3.3 | +11.6 | -35.3 | +0.0 | 54.7 | 54.0 | +0.7 | Vert |
| M |  |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |
| $\wedge$ | 14432.870 | 33.0 | +0.0 | +3.3 | +11.6 | -35.3 | +0.0 | 54.0 | 54.0 | $+0.0$ | Vert |
| M |  |  | +1.7 | +39.5 | +0.2 | +0.0 |  |  |  |  |  |
|  |  |  | +0.0 | +0.0 | +0.0 |  |  |  |  |  |  |

Page 47 of 67

|  | $\begin{gathered} 14432.880 \\ \mathrm{M} \end{gathered}$ | 32.3 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.3 \\ +0.0 \end{array}$ | +0.0 | 53.3 | 54.0 | -0.7 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 16831.080 \\ \mathrm{M} \\ \text { Ave } \end{gathered}$ | 25.9 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ -3.6 \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 45.4 | 54.0 | -8.6 | Horiz |
|  | $\begin{gathered} 16831.180 \\ \mathrm{M} \end{gathered}$ | 33.9 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.0 | 54.0 | +3.0 | Horiz |
|  | $\begin{gathered} 16831.080 \\ \mathrm{M} \end{gathered}$ | 33.6 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 56.7 | 54.0 | +2.7 | Horiz |
| $401$ | $7441.440 \mathrm{M}$ <br> Ave | 41.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 45.4 | 54.0 | -8.6 | Vert |
| $\wedge$ | 7441.440M | 48.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 56.0 | 54.0 | +2.0 | Vert |
| $\wedge$ | 7441.499M | 47.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 54.9 | 54.0 | +0.9 | Vert |
| $\wedge$ | 7441.417M | 47.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+7.8 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 54.7 | 54.0 | +0.7 | Vert |
| $\wedge$ | 7441.470 M | 46.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 53.7 | 54.0 | -0.3 | Vert |
| $\wedge$ | 7441.467 M | 44.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 52.1 | 54.0 | -1.9 | Vert |
| $407$ | $\begin{aligned} & 12202.370 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 31.1 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | $+0.0$ | 45.4 | 54.0 | -8.6 | Vert |
|  | $\begin{aligned} & 16838.360 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 22.2 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.5 \\ +0.0 \end{array}$ | $+0.0$ | 45.4 | 54.0 | -8.6 | Horiz |
| $409$ | $\begin{gathered} 12197.320 \\ \mathrm{M} \\ \text { Ave } \\ \hline \end{gathered}$ | 34.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 45.3 | 54.0 | -8.7 | Vert |
| $410$ | $\begin{aligned} & 16838.290 \\ & \mathrm{M} \\ & \text { Ave } \\ & \hline \end{aligned}$ | 25.7 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-34.5 \\ +0.0 \end{array}$ | $+0.0$ | 45.3 | 54.0 | -8.7 | Horiz |
|  | $\begin{gathered} 16838.290 \\ \mathrm{M} \end{gathered}$ | 35.2 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 58.4 | 54.0 | +4.4 | Horiz |
|  | $\begin{gathered} 16838.360 \\ \mathrm{M} \end{gathered}$ | 32.1 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 55.3 | 54.0 | +1.3 | Horiz |
| $413$ | $\begin{gathered} 17083.430 \\ \mathrm{M} \\ \text { Ave } \\ \hline \end{gathered}$ | 24.4 | $\begin{aligned} & \hline+0.0 \\ & +2.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +39.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.5 \\ +1.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -34.3 \\ +0.0 \end{array}$ | $+0.0$ | 45.3 | 54.0 | -8.7 | Horiz |

Page 48 of 67

|  | $\begin{aligned} & 14426.830 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 24.3 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 45.3 | 54.0 | -8.7 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 14426.830 \\ \text { M } \end{gathered}$ | 34.8 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 55.8 | 54.0 | +1.8 | Vert |
|  | $\begin{gathered} 14426.740 \\ \text { M } \end{gathered}$ | 32.7 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | +0.0 | 53.7 | 54.0 | -0.3 | Vert |
|  | $\begin{gathered} 14426.930 \\ \mathrm{M} \end{gathered}$ | 31.2 | $\begin{aligned} & \hline+0.0 \\ & +1.7 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.3 \\ +39.5 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.6 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.3 \\ +0.0 \end{array}$ | $+0.0$ | 52.2 | 54.0 | -1.8 | Vert |
| $418$ | $\begin{aligned} & \text { 7438.350M } \\ & \text { Ave } \end{aligned}$ | 41.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & -3.6 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 45.2 | 54.0 | -8.8 | Vert |
| $\wedge$ | 7438.350M | 49.3 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 56.5 | 54.0 | +2.5 | Vert |
| $\wedge$ | 7438.398M | 47.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 55.0 | 54.0 | +1.0 | Vert |
| $\wedge$ | 7438.392M | 47.3 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+7.8 \\ +0.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 54.5 | 54.0 | +0.5 | Vert |
| $\wedge$ | 7438.390M | 46.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | $+0.0$ | 54.1 | 54.0 | +0.1 | Vert |
| $\wedge$ | 7438.375M | 41.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.5 \\ +0.0 \end{array}$ | +0.0 | 48.3 | 54.0 | -5.7 | Vert |
| 424 | 4810.792M | 43.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.1 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.8 \\ +0.0 \end{array}$ | $+0.0$ | 45.2 | 54.0 | -8.8 | Horiz |
|  | $\begin{gathered} 12202.420 \\ \mathrm{M} \\ \text { Ave } \\ \hline \end{gathered}$ | 34.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 45.1 | 54.0 | -8.9 | Horiz |
|  | $\begin{gathered} 12202.350 \\ \mathrm{M} \end{gathered}$ | 44.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 58.7 | 54.0 | +4.7 | Horiz |
|  | $\begin{gathered} 12202.360 \\ \mathrm{M} \end{gathered}$ | 43.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 57.7 | 54.0 | +3.7 | Horiz |
|  | $\begin{gathered} 12202.420 \\ \mathrm{M} \end{gathered}$ | 42.6 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{gathered} -36.6 \\ +0.0 \end{gathered}$ | $+0.0$ | 56.9 | 54.0 | +2.9 | Horiz |
|  | $\begin{gathered} 12202.390 \\ \mathrm{M} \end{gathered}$ | 40.4 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | $+0.0$ | 54.7 | 54.0 | +0.7 | Horiz |
|  | $\begin{gathered} 12397.340 \\ \text { M } \\ \text { Ave } \\ \hline \end{gathered}$ | 33.8 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | $+0.0$ | 45.1 | 54.0 | -8.9 | Horiz |

Page 49 of 67


Page 50 of 67

| 448 4958.925M | 43.4 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | +0.0 | 44.8 | 54.0 | -9.2 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 449 4809.000M | 43.4 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.8 \\ +0.0 \end{array}$ | +0.0 | 44.8 | 54.0 | -9.2 | Horiz |
| $\begin{gathered} 4507321.450 \mathrm{M} \\ \text { Ave } \end{gathered}$ | 41.0 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \end{array}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | $+0.0$ | 44.8 | 54.0 | -9.2 | Vert |
| $\wedge 7321.440 \mathrm{M}$ | 49.6 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 57.0 | 54.0 | +3.0 | Vert |
| ^ 7321.450M | 49.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 56.4 | 54.0 | +2.4 | Vert |
| $\wedge 7321.433 \mathrm{M}$ | 46.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | $+0.0$ | 53.9 | 54.0 | -0.1 | Vert |
| $\wedge 7321.425 \mathrm{M}$ | 46.3 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | $+0.0$ | 53.7 | 54.0 | -0.3 | Vert |
| ^ 7321.417M | 46.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | $+0.0$ | 53.4 | 54.0 | -0.6 | Vert |
| $\wedge 7321.467 \mathrm{M}$ | 42.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-37.4 \\ +0.0 \end{array}$ | +0.0 | 49.4 | 54.0 | -4.6 | Vert |
| ^ 7321.442M | 40.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 48.3 | 54.0 | -5.7 | Vert |
| $\begin{gathered} 458 \text { 7213.383M } \\ \text { Ave } \end{gathered}$ | 40.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -37.0 \\ +0.0 \end{array}$ | $+0.0$ | 44.7 | 54.0 | -9.3 | Horiz |
| $\begin{gathered} 459 \text { 7213.392M } \\ \text { Ave } \end{gathered}$ | 40.6 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-37.0 \\ +0.0 \end{array}$ | $+0.0$ | 44.7 | 54.0 | -9.3 | Vert |
| $\begin{array}{cc} \hline 460 & 12197.380 \\ \text { M } \\ \text { Ave } \end{array}$ | 33.9 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.7 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.2 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} \hline-36.6 \\ +0.0 \end{array}$ | +0.0 | 44.6 | 54.0 | -9.4 | Horiz |
| $\begin{aligned} & 461 \text { 7216.392M } \\ & \text { Ave } \end{aligned}$ | 40.5 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.1 \\ +0.0 \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \end{array}$ | $\begin{array}{r} \hline-37.0 \\ +0.0 \end{array}$ | $+0.0$ | 44.6 | 54.0 | -9.4 | Vert |
| $462 \quad 12027.370$ <br> M <br> Ave | 34.0 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.1 \\ +35.6 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.4 \\ +0.1 \\ -3.6 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 44.6 | 54.0 | -9.4 | Vert |
| $\begin{gathered} 4637318.380 \mathrm{M} \\ \text { Ave } \end{gathered}$ | 40.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} +7.8 \\ +0.2 \\ -3.6 \end{array}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ |  | 44.6 | 54.0 | -9.4 | Horiz |
| $\wedge 7318.380 \mathrm{M}$ | 48.2 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.4 \\ +33.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +7.8 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.4 \\ +0.0 \end{array}$ | +0.0 | 55.6 | 54.0 | +1.6 | Horiz |

Page 51 of 67


Page 52 of 67

|  | $\begin{gathered} 14883.030 \\ \mathrm{M} \end{gathered}$ | 30.1 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | +0.0 | 50.9 | 54.0 | -3.1 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 14876.830 \\ M \\ \text { Ave } \end{gathered}$ | 27.0 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ -3.6 \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | +0.0 | 44.2 | 54.0 | -9.8 | Vert |
|  | $\begin{gathered} 14876.830 \\ \mathrm{M} \end{gathered}$ | 33.4 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 54.2 | 54.0 | +0.2 | Vert |
| $485$ | $\begin{gathered} 14876.700 \\ M \\ \text { Ave } \end{gathered}$ | 27.0 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ -3.6 \end{array}$ | $\begin{array}{r} \hline-35.1 \\ +0.0 \end{array}$ | $+0.0$ | 44.2 | 54.0 | -9.8 | Vert |
|  | $\begin{gathered} 14876.700 \\ \mathrm{M} \end{gathered}$ | 33.6 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | +0.0 | 54.4 | 54.0 | $+0.4$ | Vert |
| $\wedge$ | $\begin{gathered} 14876.720 \\ \mathrm{M} \end{gathered}$ | 32.7 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline-35.1 \\ +0.0 \end{array}$ | $+0.0$ | 53.5 | 54.0 | -0.5 | Vert |
|  | $\begin{aligned} & \hline 14876.660 \\ & M \\ & \text { Ave } \end{aligned}$ | 27.0 | $\begin{aligned} & +0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ -3.6 \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 44.2 | 54.0 | -9.8 | Horiz |
|  | $\begin{gathered} 14876.660 \\ \mathrm{M} \end{gathered}$ | 33.4 | $\begin{aligned} & \hline+0.0 \\ & +1.9 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.4 \\ +38.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+11.5 \\ +0.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -35.1 \\ +0.0 \end{array}$ | $+0.0$ | 54.2 | 54.0 | +0.2 | Horiz |
|  | $\begin{aligned} & 16831.230 \\ & \text { M } \\ & \text { Ave } \end{aligned}$ | 21.1 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 44.2 | 54.0 | -9.8 | Vert |
|  | $\begin{gathered} 16831.180 \\ \mathrm{M} \end{gathered}$ | 34.4 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 57.5 | 54.0 | +3.5 | Vert |
| $\wedge$ | $\begin{gathered} 16831.150 \\ \mathrm{M} \end{gathered}$ | 31.0 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 54.1 | 54.0 | +0.1 | Vert |
|  | $\begin{gathered} 16831.230 \\ \mathrm{M} \end{gathered}$ | 30.1 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 53.2 | 54.0 | -0.8 | Vert |
|  | $\begin{gathered} 16831.140 \\ \mathrm{M} \end{gathered}$ | 29.3 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 52.4 | 54.0 | -1.6 | Vert |
|  | $\begin{gathered} 16831.290 \\ \mathrm{M} \end{gathered}$ | 29.1 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | $+0.0$ | 52.2 | 54.0 | -1.8 | Vert |
| 496 | 4960.908M | 42.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | $+0.0$ | 43.9 | 54.0 | -10.1 | Vert |
| 497 | 4810.975M | 42.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-37.8 \\ +0.0 \end{array}$ | $+0.0$ | 43.9 | 54.0 | -10.1 | Horiz |
| 498 | 4878.858M | 42.4 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | +0.0 | 43.8 | 54.0 | -10.2 | Vert |

Page 53 of 67

| 499 4879.005M | 41.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | +0.0 | 43.2 | 54.0 | -10.8 | Horiz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{cc} \hline 500 & 16831.540 \\ \text { M } \\ \text { Ave } \end{array}$ | 20.0 | $\begin{aligned} & +0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 43.1 | 54.0 | -10.9 | Horiz |
| $\begin{gathered} 16831.440 \\ \mathrm{M} \end{gathered}$ | 27.8 | $\begin{aligned} & \hline+0.0 \\ & +2.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +3.6 \\ +38.3 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+12.3 \\ +1.2 \\ +0.0 \end{array}$ | $\begin{array}{r} -34.5 \\ +0.0 \end{array}$ | +0.0 | 50.9 | 54.0 | -3.1 | Horiz |
| 502 4808.795M | 41.4 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-37.8 \\ +0.0 \end{array}$ | +0.0 | 42.8 | 54.0 | -11.2 | Horiz |
| $\begin{array}{cc} \hline 503 & 21649.390 \\ M \end{array}$ | 41.0 | $\begin{aligned} & +0.0 \\ & +2.3 \\ & +1.4 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -33.3 \\ +40.6 \end{array}$ | -9.5 | 42.5 | 54.0 | -11.5 | Vert |
| $\begin{array}{cc} 504 & 21640.150 \\ M \end{array}$ | 40.9 | $\begin{array}{r} +0.0 \\ +2.3 \\ +1.4 \\ \hline \end{array}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-33.3 \\ +40.6 \end{array}$ | -9.5 | 42.4 | 54.0 | -11.6 | Horiz |
| 505 4958.988M | 40.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | +0.0 | 42.2 | 54.0 | -11.8 | Horiz |
| 506 4958.958M | 40.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | +0.0 | 42.0 | 54.0 | -12.0 | Horiz |
| 507 4879.155M | 40.6 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | +0.0 | 42.0 | 54.0 | -12.0 | Horiz |
| $\begin{array}{cc} \hline 508 & 12397.530 \\ \text { M } \\ \text { Ave } \\ \hline \end{array}$ | 30.6 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ -3.6 \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 41.9 | 54.0 | -12.1 | Vert |
| $\begin{gathered} \wedge 12397.530 \\ \mathrm{M} \end{gathered}$ | 39.1 | $\begin{aligned} & \hline+0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 54.0 | 54.0 | $+0.0$ | Vert |
| 510 4960.980M | 40.2 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline-38.1 \\ +0.0 \end{array}$ | +0.0 | 41.5 | 54.0 | -12.5 | Horiz |
| $\begin{array}{cc} \hline 511 & 21640.220 \\ M \end{array}$ | 40.0 | $\begin{aligned} & \hline+0.0 \\ & +2.3 \\ & +1.4 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -33.3 \\ +40.6 \end{array}$ | -9.5 | 41.5 | 54.0 | -12.5 | Vert |
| 512 4959.083M | 39.9 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | +0.0 | 41.3 | 54.0 | -12.7 | Horiz |
| 513 4880.862M | 39.8 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | +0.0 | 41.2 | 54.0 | -12.8 | Horiz |
| 514 4812.242M | 39.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-37.8 \\ +0.0 \end{array}$ | +0.0 | 41.1 | 54.0 | -12.9 | Horiz |
| 515 4808.825M | 39.7 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.8 \\ +0.0 \end{array}$ | +0.0 | 41.1 | 54.0 | -12.9 | Horiz |

Page 54 of 67

| 516 | 4810.872M | 39.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{gathered} -37.8 \\ +0.0 \end{gathered}$ | +0.0 | 41.0 | 54.0 | -13.0 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 517 | 4961.067M | 39.6 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | +0.0 | 40.9 | 54.0 | -13.1 | Horiz |
| 518 | 4880.556M | 39.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | $+0.0$ | 40.9 | 54.0 | -13.1 | Vert |
| 519 | 4878.875M | 39.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | $+0.0$ | 40.9 | 54.0 | -13.1 | Vert |
| 520 | 4958.740M | 39.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | $+0.0$ | 40.5 | 54.0 | -13.5 | Vert |
| 521 | 4880.692M | 39.1 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | $+0.0$ | 40.5 | 54.0 | -13.5 | Horiz |
| 522 | 4959.598M | 39.0 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | $+0.0$ | 40.3 | 54.0 | -13.7 | Vert |
| 523 | 4809.433M | 38.9 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{gathered} -37.8 \\ +0.0 \end{gathered}$ | $+0.0$ | 40.3 | 54.0 | -13.7 | Vert |
| 524 | 4880.325M | 38.5 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | $+0.0$ | 39.9 | 54.0 | -14.1 | Vert |
| 525 | $\begin{gathered} 21649.390 \\ \mathrm{M} \end{gathered}$ | 38.3 | $\begin{aligned} & +0.0 \\ & +2.3 \\ & +1.4 \\ & \hline \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -33.3 \\ +40.6 \end{array}$ | -9.5 | 39.8 | 54.0 | -14.2 | Vert |
| 526 | 4959.200M | 38.4 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | +0.0 | 39.7 | 54.0 | -14.3 | Horiz |
| 527 | 4812.067M | 38.3 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -37.8 \\ +0.0 \end{array}$ | $+0.0$ | 39.7 | 54.0 | -14.3 | Vert |
|  | $\begin{aligned} & 12397.420 \\ & \text { M } \\ & \text { Ave } \\ & \hline \end{aligned}$ | 24.8 | $\begin{aligned} & +0.0 \\ & +1.5 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +3.2 \\ +35.8 \\ +0.0 \end{array}$ | $\begin{array}{r} \hline+10.5 \\ +0.4 \\ +0.0 \\ \hline \end{array}$ | $\begin{array}{r} -36.5 \\ +0.0 \end{array}$ | +0.0 | 39.7 | 54.0 | -14.3 | Vert |
| 529 | 4808.992M | 38.2 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +1.9 \\ +29.9 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.1 \\ & +0.1 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} -37.8 \\ +0.0 \end{array}$ | $+0.0$ | 39.6 | 54.0 | -14.4 | Vert |
| 530 | 4880.617M | 38.2 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ | +0.0 | 39.6 | 54.0 | -14.4 | Horiz |
| 531 | 4880.025M | 37.8 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.0 \\ +0.0 \end{array}$ |  | 39.2 | 54.0 | -14.8 | Vert |
| 532 | 4958.492M | 37.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{array}{r} -38.1 \\ +0.0 \end{array}$ | $+0.0$ | 39.1 | 54.0 | -14.9 | Vert |


| 533 | 4877.950M | 37.7 | $\begin{aligned} & \hline+0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.0 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & \hline+6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-38.0 \\ +0.0 \end{array}$ | $+0.0$ | 39.1 | 54.0 | -14.9 | Vert |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 534 | 4958.882M | 37.3 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-38.1 \\ +0.0 \end{array}$ | $+0.0$ | 38.7 | 54.0 | -15.3 | Horiz |
| 535 | 4959.042M | 36.7 | $\begin{aligned} & +0.0 \\ & +1.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +30.1 \\ +0.0 \\ \hline \end{array}$ | $\begin{aligned} & +6.0 \\ & +0.2 \\ & +0.0 \end{aligned}$ | $\begin{array}{r} \hline-38.1 \\ +0.0 \end{array}$ | $+0.0$ | 38.1 | 54.0 | -15.9 | Vert |
| 536 | $\begin{gathered} 28865.650 \\ M \end{gathered}$ | 39.1 | $\begin{aligned} & +0.0 \\ & +2.8 \\ & +1.7 \end{aligned}$ | $\begin{array}{r} +0.0 \\ +0.0 \\ +3.8 \\ \hline \end{array}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \end{aligned}$ | -9.5 | 37.9 | 54.0 | -16.1 | Horiz |
| 537 | $\begin{gathered} 28853.550 \\ \mathrm{M} \end{gathered}$ | 38.0 | $\begin{aligned} & +0.0 \\ & +2.8 \\ & +1.7 \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +3.8 \\ & + \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \end{aligned}$ | -9.5 | 36.8 | 54.0 | -17.2 | Horiz |
| 538 | $\begin{gathered} 28853.550 \\ \mathrm{M} \end{gathered}$ | 37.4 | $\begin{array}{r} +0.0 \\ +2.8 \\ +1.7 \\ \hline \end{array}$ | $\begin{array}{r} +0.0 \\ +0.0 \\ +3.8 \\ \hline \end{array}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \\ & +0.0 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \end{aligned}$ | -9.5 | 36.2 | 54.0 | -17.8 | Vert |
| 539 | $\begin{gathered} 28853.750 \\ \mathrm{M} \end{gathered}$ | 37.2 | $\begin{aligned} & +0.0 \\ & +2.8 \\ & +1.7 \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.8 \\ & +3.8 \end{aligned}$ | $\begin{aligned} & +0.0 \\ & +0.0 \\ & +0.0 \end{aligned}$ | $\begin{aligned} & \hline+0.0 \\ & +0.0 \end{aligned}$ | -9.5 | 36.0 | 54.0 | -18.0 | Vert |

CKC Laboratories, Inc. Date: 1016/2014 Time: 10:12:25 Silicon Laboratories, Inc. MO\#: 95499 15.247(d)/15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence\#: 2 Ext ATTN: 0 dB


Note: The plot was revised to correct an error and the date and time stamp were accidently updated to the current time. They should read 9/14/2014 at 13:44:41

## Band Edge

## Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112
Customer: Silicon Laboratories, Inc.
Specification: Band Edge Compliance
Work Order \#: 95499
Test Type:
Equipment:
Manufacturer:
Maximized Emissions
Test Date: 09/10/2014
Thin ZigBee-to-Ethernet gateway
Silicon Laboratories, Inc.
130-0880-000-A0
S/N: 70B3D555902A
Tested By: S. Yamamoto

## Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| T1 | AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |
| T2 | ANP05421 | Cable | Sucoflex 104A | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06661 | Cable | LDF1-50 | $4 / 15 / 2014$ | $4 / 15 / 2016$ |
| T4 | AN00849 | Horn Antenna | 3115 | $3 / 18 / 2014$ | $3 / 18 / 2016$ |

Equipment Under Test (* ( EUT):

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Thin ZigBee-to-Ethernet <br> gateway* | Silicon Laboratories, Inc. | $130-0880-000-A 0$ | 70B3D555902A |

## Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6VDC Power Supply | Triad | WDU6-800 | NA |

## Test Conditions / Notes:

The equipment under test (EUT) is stand alone on the Styrofoam table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which is commanding the EUT to the appropriate test frequencies.
The test frequencies are $2405 \mathrm{MHz}, 2440 \mathrm{MHz}$, and 2480 MHz .
An external AC to DC power supply is also connected to the EUT.
Nominal voltage of the EUT is 6VDC.
Frequency range of measurement, 2400 MHz to 2483.5 MHz .
Temperature: $30^{\circ} \mathrm{C}$
Relative Humidity: 46\%
Pressure: 100 kPa
Site D

Frequency: 2405 MHz . Firmware power setting $=0 x f f,+19 \mathrm{dBm}$
Frequency: 2440 MHz . Firmware power setting $=0 x f e,+18 \mathrm{dBm}$
Frequency: 2480 MHz . Firmware power setting $=0 x e 6,-6 \mathrm{dBm}$

## Test Data




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Test Setup Photos


Radiated Spurious Emissions, 9kHz-40GHz Overall Test Setup


Band Edge Overall Test Setup

LABORATORIES, INC.

## 15. 247(e) Power Spectral Density

## Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • 714-993-6112
Customer: Silicon Laboratories, Inc.
Specification: 15.247(e) Power Spectral Density
Work Order \#:
95499
Test Type: Maximized Emissions
Test Date: 09/10/2014
Equipment: Thin ZigBee-to-Ethernet gateway
Manufacturer: Silicon Laboratories, Inc. Tested By: S. Yamamoto
Model: $\quad 130-0880-000-A 0$
S/N: 70B3D555902A
Test Equipment:

| ID | Asset \# | Description | Model | Calibration Date | Cal Due Date |
| :--- | :--- | :--- | :--- | :--- | :--- |
| T1 | AN02869 | Spectrum Analyzer | E4440A | $7 / 10 / 2014$ | $7 / 10 / 2015$ |
| T2 | ANP05421 | Cable | Sucoflex 104A | $1 / 8 / 2014$ | $1 / 8 / 2016$ |
| T3 | ANP06661 | Cable | LDF1-50 | $4 / 15 / 2014$ | $4 / 15 / 2016$ |
| T4 | AN00849 | Horn Antenna | 3115 | $3 / 18 / 2014$ | $3 / 18 / 2016$ |

Equipment Under Test (* = EUT):

| Function <br> Thin ZigBee-to-Ethernet <br> gateway* | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |

Support Devices:

| Function | Manufacturer | Model \# | S/N |
| :--- | :--- | :--- | :--- |
| Laptop Computer | Lenovo | Thinkpad T500 | L3B3906 |
| AC to 6Vdc Power Supply | Triad | WDU6-800 | NA |

## Test Conditions / Notes:

The equipment under test (EUT) is stand alone on the Styrofoam table top. The EUT is connected to a remotely located laptop computer via unshielded cat 5 e cable. The computer is running Telnet which is commanding the EUT to the appropriate test frequencies.
The test frequencies are $2405 \mathrm{MHz}, 2440 \mathrm{MHz}$, and 2480 MHz .
An external AC to DC power supply is also connected to the EUT.
Nominal voltage of the EUT is 6VDC.
Frequency range of measurement, 2400 MHz to 2483.5 MHz .
Temperature: $30^{\circ} \mathrm{C}$
Relative Humidity: 46\%
Pressure: 100 kPa
Site D
Frequency: 2405 MHz . Firmware power setting $=0 x f f,+19 \mathrm{dBm}$
Frequency: 2440 MHz . Firmware power setting $=0 x f e,+18 \mathrm{dBm}$
Frequency: 2480 MHz . Firmware power setting $=0 x e 6,-6 \mathrm{dBm}$

LABORATORIES, INC.

Test Data


Low Channel, 2405MHz


Middle Channel, 2440MHz


High Channel, 2480 MHz

## Test Setup Photo



LABORATORIES, INC.

## APPENDIX A: CUSTOMER PROVIDED INFORMATION

## DUTY CYCLE CORRECTION FACTOR CALCULATION

## CONSTANTS

One symbol time $=0.016 \mathrm{msec}$
One byte $=2$ symbols
One byte time $=0.032 \mathrm{msec}$
802.15.4 packet overhead $=6$ bytes
802.15.4 maximum packet size, excluding payload = 127 bytes
802.15.4 maximum total packet size $=133$ bytes
802.15.4 ACK packet size $=5$ bytes plus 6 bytes overhead $=11$ bytes
802.15.4 backoff period after receipt of $\mathrm{msg}=70$ symbols
802.15.4 clear channel assessment (CCA) period before $t x=8$ symbols

ON TIME
802.15.4 Max packet TX time $=133$ bytes * $0.032 \mathrm{~ms} /$ byte $=4.256 \mathrm{msec}$

TOTAL ON TIME $=4.256 \mathrm{msec}$

## OFF TIME

Minimum delay before start of recepit of ACK $=0.192 \mathrm{msec}$
Time to receive ACK $=11$ bytes * $0.032 \mathrm{~ms} / \mathrm{byte}=0.352 \mathrm{msec}$
802.15.4 backoff time $=70$ symbols $* 0.016 \mathrm{~ms} /$ symbol $=1.12 \mathrm{msec}$

Minimum ACK processing time $=0.2 \mathrm{msec}$
802.15 .4 CCA time $=8$ symbols $* 0.016 \mathrm{~ms} / \mathrm{sym}=0.128 \mathrm{msec}$

RX-to-TX hardware turnaround time $=0.192 \mathrm{msec}$
TOTAL OFF TIME $=0.192+0.352+1.12+.2+0.128+0.192=2.184 \mathrm{msec}$

## DUTY CYCLE

Since the total cycle time is less than 100 msec , we assume continuous transmission over a 100 msec window, but the overall on and off times will be multiples of the above numbers.
Thus, the worst- case duty cycle is:
(TOTAL ON TIME) / (TOTAL ON TIME + TOTAL OFF TIME)
4.256 / ( $4.256+2.184$ )
4.256 / $6.44=0.6609$ or $66.09 \%$,

## DUTY CYCLE CORRECTION FACTOR

DCCF $=20$ * $\log 10$ (duty cycle)
$=20 * \log 10(0.6609)$
$=-3.597 \mathrm{~dB}$
$\mathrm{P}_{\mathrm{t}}=0.0425 \mathrm{~W}$

## SUPPLEMENTAL INFORMATION

## Measurement Uncertainty

| Uncertainty Value | Parameter |
| :---: | :---: |
| 4.73 dB | Radiated Emissions |
| 3.34 dB | Mains Conducted Emissions |
| 3.30 dB | Disturbance Power |

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the $95 \%$ confidence level using a coverage factor of $\mathrm{k}=2$. Compliance is deemed to occur provided measurements are below the specified limits.

## Emissions Test Details

## TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

## CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in $\mathrm{dB} \mu \mathrm{V} / \mathrm{m}$, the spectrum analyzer reading in $\mathrm{dB} \mu \mathrm{V}$ was corrected by using the following formula. This reading was then compared to the applicable specification limit.

| SAMPLE CALCULATIONS |  |  |  |
| :--- | :--- | :--- | :---: |
|  | Meter reading | $(\mathrm{dB} \mathrm{\mu V})$ |  |
| + | Antenna Factor | $(\mathrm{dB})$ |  |
| + | Cable Loss | $(\mathrm{dB})$ |  |
| - | Distance Correction | $(\mathrm{dB})$ |  |
| - | Preamplifier Gain | $(\mathrm{dB})$ |  |
| $=$ | Corrected Reading | $(\mathrm{dB} \mathrm{\mu V/m)}$ |  |

## TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

| MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE |  |  |  |
| :---: | :---: | :---: | :---: |
| TEST | BEGINNING FREQUENCY | ENDING FREQUENCY | BANDWIDTH SETTING |
| CONDUCTED EMISSIONS | 150 kHz | 30 MHz | 9 kHz |
| RADIATED EMISSIONS | 9 kHz | 150 kHz | 200 Hz |
| RADIATED EMISSIONS | 150 kHz | 30 MHz | 9 kHz |
| RADIATED EMISSIONS | 30 MHz | 1000 MHz | 120 kHz |
| RADIATED EMISSIONS | 1000 MHz | $>1 \mathrm{GHz}$ | 1 MHz |

## SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or carrot ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

## Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

## Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

## Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

