

PELLA BUILDING SYSTEMS  
906 W 9TH ST  
PELLA, IA 50219

REACTIONS & ANCHOR BOLTS  
FOR  
MEGA Storage

Lee's Summit  
520 NE TOWN CENTRE DRIVE  
LEE'S SUMMIT  
T



BUILDING LAYOUT

Width (ft) = 40.0  
Length (ft) = 112.0  
Eave Height (ft) = 14.8/ 16.5  
Roof Slope (rise/12) = 0.50

BUILDING LOADS

Roof Dead Load (psf) = 2.0  
Wall Dead Load  
    Left Endwall (psf) = 2.0  
    Right Endwall (psf) = 2.0  
    Front Sidewall (psf) = 2.0  
    Back Sidewall (psf) = 2.0  
Live Load (psf) = 20.0  
Collateral Load (psf) = 0.5  
Snow Load (psf) = 13.4  
Minimum Snow (psf) = 16.0  
Wind Speed (mph) = 103.0  
Wind Code = IBC 18  
Closed/Open = C  
Exposure = C  
Internal Wind Coeff = -0.18, +0.18  
Importance - Wind = 1.00  
Importance - Seismic = 1.00  
Seismic Design Category = B  
Seismic Coeff (Fa\*Ss) = 0.16

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Designer :  
Detailer : JB

|        |        |      |      |      |       |                 |         |
|--------|--------|------|------|------|-------|-----------------|---------|
| * Dead | Collat | Live | Snow | Rain | Basic | Wind_Load_Ratio | Seismic |
| * Load | Load   | Load | Load | Load | Wind  | Deflect_Factor  | Load    |
| 2.0    | 0.5    | 20.0 | 13.4 | 0.0  | 19.0  | 0.54            | 0.60    |
|        |        |      |      |      |       |                 | 0.04    |

|   |       |       |                     |
|---|-------|-------|---------------------|
| * | Wind  | Wind  |                     |
| * | Press | Suct  |                     |
|   | 16.6  | -18.3 | .. Ext Column       |
|   | 16.6  | -18.3 | .. Girt/Header      |
|   | 16.6  | -18.3 | .. Jamb             |
|   | 20.5  | -27.3 | .. Ext Panel        |
|   | 43.7  | -28.0 | .. Parapet Girt     |
|   | 10.0  | -10.0 | .. Int Column       |
|   | 10.0  | -10.0 | .. Int Panel        |
|   | 8.4   | -6.1  | .. Bracing          |
|   | 12.8  | -9.1  | .. Bracing, Edge    |
|   | 28.5  | -19.0 | .. Bracing, Parapet |

\*COLUMN, RAFTER & BRACING DESIGN LOADS:

| *No | s Id | Aux Load<br>Id Coef | Dead | Coll | Live | Snow | Drift | Rain | Left | Right | Left | Right | Long_Wind<br>1 | 2    | Column_Wind<br>Press | Suct | Sei  |
|-----|------|---------------------|------|------|------|------|-------|------|------|-------|------|-------|----------------|------|----------------------|------|------|
| 0   | 0    | 52                  | 1    | 1.00 | 1.00 | 1.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 2    | 1.00 | 1.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 3    | 1.00 | 1.00 | 0.00 | 1.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 4    | 1.00 | 1.00 | 0.00 | 1.00  | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 5    | 1.00 | 1.00 | 0.75 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 6    | 1.00 | 1.00 | 0.00 | 0.75  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 7    | 1.00 | 1.00 | 0.00 | 0.75  | 0.75 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.00 | 0.00 |
| 0   | 0    |                     | 8    | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.60           | 0.00 | 0.60                 | 0.00 | 0.00 |
| 0   | 0    |                     | 9    | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.60 | 0.60                 | 0.00 | 0.00 |
| 0   | 0    |                     | 10   | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.60           | 0.00 | 0.00                 | 0.60 | 0.00 |
| 0   | 0    |                     | 11   | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00           | 0.60 | 0.00                 | 0.60 | 0.00 |
| 0   | 0    |                     | 12   | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.60 | 0.00  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.60 | 0.00 |
| 0   | 0    |                     | 13   | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.60  | 0.00 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.60 | 0.00 |
| 0   | 0    |                     | 14   | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.60 | 0.00  | 0.00           | 0.00 | 0.00                 | 0.60 | 0.00 |
| 0   | 0    |                     | 15   | 1.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.60  | 0.00           | 0.00 | 0.00                 | 0.60 | 0.00 |



|   |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 0 | 48   | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0.0  |
|   |   | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 49   | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7  |
|   |   | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 50   | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.7 |
|   |   | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 51   | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.7  |
|   |   | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0 | 0 | 52   | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.7 |
|   |   | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

\*AUXILIARY LOADS:

|      |    |          |     |     |            |  |
|------|----|----------|-----|-----|------------|--|
|      |    |          |     | No. | -Add_Load- |  |
| *No. | Id | Name     | Add | Id  | Coef       |  |
| 1    | 1  | MIN_SNOW | 1   | 1   | 1.00       |  |

\*ADDITIONAL LOADS:

|       |    |      |        |       |      |        |        |      |       |       |               |  |
|-------|----|------|--------|-------|------|--------|--------|------|-------|-------|---------------|--|
|       |    | Surf |        | Basic | Load | Load   |        |      |       |       | ---Surface--- |  |
| * No. | Id | Id   | Load   | Type  | Orn  | W1     | W2     | D1   | D2    | Start | End           |  |
| 1     | 1  | 2    | U_SNOW | D     | T    | -16.00 | -16.00 | 0.00 | 40.03 | 0.00  | 112.00        |  |

| Frame<br>Line | Column<br>Line | -----Foundation_Loads(k)----- |      |       |              |       |       | Anchor_Bolt<br>No.    Dia |  |
|---------------|----------------|-------------------------------|------|-------|--------------|-------|-------|---------------------------|--|
|               |                | Max_Positive                  |      |       | Max_Negative |       |       |                           |  |
|               |                | Load                          | Horz | Vert  | Load         | Horz  | Vert  |                           |  |
| A             | 2              | 1                             | 0.42 | -0.02 | 2            | -0.37 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.37 | -0.34 |                           |  |
| A             | 3              | 1                             | 0.42 | -0.02 | 2            | -0.37 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.37 | -0.34 |                           |  |
| A             | 4              | 1                             | 0.42 | -0.02 | 2            | -0.38 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 5            | 0.42  | -0.34 |                           |  |
| A             | 5              | 1                             | 0.42 | -0.02 | 2            | -0.38 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 5            | 0.42  | -0.34 |                           |  |
| A             | 6              | 1                             | 0.44 | -0.02 | 2            | -0.40 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.40 | -0.34 |                           |  |
| A             | 7              | 1                             | 0.44 | -0.02 | 2            | -0.40 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.40 | -0.34 |                           |  |
| A             | 8              | 1                             | 0.46 | -0.02 | 2            | -0.41 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.34 |                           |  |
| Y             | 8              | 1                             | 0.46 | -0.02 | 2            | -0.41 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.41 | -0.34 |                           |  |
| Y             | 7              | 1                             | 0.44 | -0.02 | 2            | -0.40 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.40 | -0.34 |                           |  |
| Y             | 6              | 1                             | 0.44 | -0.02 | 2            | -0.40 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.40 | -0.34 |                           |  |
| Y             | 5              | 1                             | 0.42 | -0.02 | 2            | -0.38 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 5            | 0.42  | -0.34 |                           |  |
| Y             | 4              | 1                             | 0.42 | -0.02 | 2            | -0.38 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 5            | 0.42  | -0.34 |                           |  |
| Y             | 3              | 1                             | 0.42 | -0.02 | 2            | -0.37 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.37 | -0.34 |                           |  |
| Y             | 2              | 1                             | 0.42 | -0.02 | 2            | -0.37 | -0.31 |                           |  |
|               |                | 3                             | 0.00 | 0.83  | 4            | -0.37 | -0.34 |                           |  |
| A             | 9              | 1                             | 0.05 | 0.02  | 2            | -0.04 | -0.13 |                           |  |
|               |                | 3                             | 0.00 | 0.44  | 4            | -0.04 | -0.14 |                           |  |
| D             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| G             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| J             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| M             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| P             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| S             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| V             | 9              | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
|               |                | 3                             | 0.00 | 0.85  | 4            | 0.00  | -0.32 |                           |  |
| Y             | 9              | 1                             | 0.05 | 0.02  | 2            | -0.04 | -0.13 |                           |  |
|               |                | 3                             | 0.00 | 0.44  | 4            | -0.04 | -0.14 |                           |  |
| Y             | 1              | 1                             | 0.20 | 0.03  | 2            | -0.17 | -0.02 |                           |  |
|               |                | 3                             | 0.00 | 0.17  | 2            | -0.17 | -0.02 |                           |  |
| X             | 1              | 1                             | 0.39 | 0.03  | 2            | -0.34 | -0.08 |                           |  |
|               |                | 3                             | 0.00 | 0.30  | 2            | -0.34 | -0.08 |                           |  |
| W             | 1              | 1                             | 0.39 | 0.03  | 2            | -0.34 | -0.08 |                           |  |
|               |                | 3                             | 0.00 | 0.30  | 2            | -0.34 | -0.08 |                           |  |
| V             | 1              | 3                             | 0.00 | 0.30  | 2            | 0.00  | -0.08 |                           |  |

|                                |   |   |      |       |   |       |       |      |       |
|--------------------------------|---|---|------|-------|---|-------|-------|------|-------|
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| U                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| T                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| S                              | 1 | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| R                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| Q                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| P                              | 1 | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| O                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| N                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| M                              | 1 | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| L                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| K                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| J                              | 1 | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| I                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| H                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| G                              | 1 | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| F                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| E                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| D                              | 1 | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | 0.00  | -0.08 |      |       |
| C                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| B                              | 1 | 1 | 0.39 | 0.03  | 2 | -0.34 | -0.08 |      |       |
|                                |   | 3 | 0.00 | 0.30  | 2 | -0.34 | -0.08 |      |       |
| A                              | 1 | 1 | 0.20 | 0.03  | 2 | -0.17 | -0.02 |      |       |
|                                |   | 3 | 0.00 | 0.17  | 2 | -0.17 | -0.02 |      |       |
| -----                          |   |   |      |       |   |       |       |      |       |
| D *                            | 2 | 1 | 0.23 | -0.09 | 2 | -0.23 | -0.67 | ---- | ----- |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.23 | -0.72 |      |       |
| D *                            | 3 | 1 | 0.23 | -0.09 | 2 | -0.23 | -0.67 |      |       |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.23 | -0.72 |      |       |
| D *                            | 4 | 1 | 0.23 | -0.09 | 2 | -0.23 | -0.67 |      |       |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.23 | -0.72 |      |       |
| D *                            | 5 | 1 | 0.23 | -0.09 | 2 | -0.23 | -0.67 |      |       |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.23 | -0.72 |      |       |
| D *                            | 6 | 1 | 0.24 | -0.09 | 2 | -0.24 | -0.66 |      |       |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.24 | -0.72 |      |       |
| D *                            | 7 | 1 | 0.24 | -0.09 | 2 | -0.24 | -0.66 |      |       |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.24 | -0.72 |      |       |
| D *                            | 8 | 1 | 0.24 | -0.09 | 2 | -0.24 | -0.66 |      |       |
|                                |   | 3 | 0.00 | 1.62  | 4 | -0.24 | -0.72 |      |       |
| -----                          |   |   |      |       |   |       |       |      |       |
| D * Frame Lines: D G J M P S V |   |   |      |       |   |       |       |      |       |

| Load Id | Load Combination                       |
|---------|----------------------------------------|
| 1       | 0.6Dead+0.6Wind_Right2+0.6Wind_Suction |

BRACING/PANEL SHEAR REACTIONS:

[illegible]

Building Data

-----

|                   |      |        |
|-------------------|------|--------|
| Code              | =IBC | 18     |
| Length            | =    | 112.00 |
| Width             | =    | 40.00  |
| Left Eave Height  | =    | 14.79  |
| Right Eave Height | =    | 16.46  |

Seismic Formula

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|                      |   |                                                   |
|----------------------|---|---------------------------------------------------|
| Base Shear, V        | = | $0.667 \cdot I_e \cdot F_a \cdot S_s \cdot W / R$ |
| Vmin                 | = | $0.044 \cdot S_{ds} \cdot I_e \cdot W$            |
| Vmax                 | = | $S_{d1} \cdot I_e \cdot W / (T \cdot R)$          |
| T(Moment_Frame)      | = | 0.252                                             |
| Shear Force, E       | = | $\Omega \cdot \rho \cdot V$                       |
| T(Braced_Frame)      | = | 0.157                                             |
| Fa*Ss                | = | 0.160                                             |
| Zone/Design Category | = | B                                                 |
| Ie                   | = | 1.200                                             |
| S1                   | = | 0.068                                             |
| Sd1                  | = | 0.107                                             |
| Sds                  | = | 0.105                                             |

Seismic Dead Load

-----

|                    |   |             |
|--------------------|---|-------------|
| Roof Dead          | = | 2.50 (psf ) |
| Roof Total         | = | 2.50 (psf ) |
| Endwall Dead       | = | 2.00 (psf ) |
| Sidewall Dead      | = | 2.00 (psf ) |
| Interior Wall Dead | = | 2.00 (psf ) |

Seismic Forces

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Longitudinal Panel

|          |   |              |            |
|----------|---|--------------|------------|
| R        | = | 3.00, Omega= | 3.00       |
| B_SW     | W | =            | 20.32 (k ) |
| Force, V | = | 0.87 (k )    |            |
| Force, E | = | 2.60 (k )    |            |

Transverse Panel

|          |   |              |           |
|----------|---|--------------|-----------|
| R        | = | 3.00, Omega= | 3.00      |
| L_EW     | W | =            | 1.54 (k ) |
| Force, V | = | 0.07 (k )    |           |
| Force, E | = | 0.20 (k )    |           |
| @ 14.0   | W | =            | 2.46 (k ) |
| Force, V | = | 0.11 (k )    |           |
| Force, E | = | 0.32 (k )    |           |
| @ 28.0   | W | =            | 2.46 (k ) |
| Force, V | = | 0.11 (k )    |           |
| Force, E | = | 0.32 (k )    |           |

@ 42.0        W = 2.46 (k )  
Force, V = 0.11 (k )  
Force, E = 0.32 (k )

@ 56.0        W = 2.46 (k )  
Force, V = 0.11 (k )  
Force, E = 0.32 (k )

@ 70.0        W = 2.46 (k )  
Force, V = 0.11 (k )  
Force, E = 0.32 (k )

@ 84.0        W = 2.46 (k )  
Force, V = 0.11 (k )  
Force, E = 0.32 (k )

@ 98.0        W = 2.46 (k )  
Force, V = 0.11 (k )  
Force, E = 0.32 (k )

R\_EW        W = 1.54 (k )  
Force, V = 0.07 (k )  
Force, E = 0.20 (k )

Total Base Shear  
Longitudinal  
Force, V = 0.87 (k )  
Transverse  
Force, V = 0.87 (k )

=====

```
*=====
*T                      Roof Design Input File                      2/13/23 10:19am
*=====
```

```
*( 1)VERSION/UNITS:
*VERSION      Units(I/M)
'2.01'        'I'
```

```
*( 2)JOB IDENTIFICATION:
*   Job Id
'T'
```

```
*( 3)DESIGN CODE:
*Design Steel_Code      ---Build---      Code      Seismic
*Code      Cold      Country      Code      Year      Label      Zone
'WS'      'NAUS16'      '----'      'IBC '      '18'      'IBC 18 '      'B '

```

```
*( 4)DESIGN CONSTANTS:
* ---Steel_Yield---      Stress      Strength_Factors
* C_Sec Z_Sec O_Sec      Ratio      Wind      Seismic
55.0 55.0 55.0 1.03 1.0000 1.0000
```

```
*( 5)DEFLECTION LIMITS:
* -----Purlin----- --Roof_Panel--
* Live Wind Total      Live Wind
180. 150. 0. 60. 60.
```

```
*( 6)REPORTS:
*Input
*Echo Purlin Panel
'I' '2' 'Y'
```

```
*( 7)BUILDING SHAPE:
* Build      Build      L_Eave      R_Eave      Peak      L_Roof      No.
* Width      Length      Height      Height      Offset      Slope      Wall
40.0000 112.0000 14.7917 16.4583 0.0000 0.500 6
```

```
*( 8)WALL OPTIONS:
*Wall Design Detail      -----Notch-----      Base_Type      Base_Trim
* Id Option Option      Depth Width Ext Parapet      Panel Jamb      Panel Jamb
1 'NYYY' 'YYYY' 1.500 1.500 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '
2 'NYYY' 'YYYY' 1.500 11.250 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '
3 'NYYY' 'YYYY' 1.500 1.500 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '
4 'NYYY' 'YYYY' 1.500 1.500 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '

```

```
*( 9)INTERIOR WALL OPTIONS:
*Wall Design Detail      ----Notch---      Base_Type      Base_Trim
* Id Option Option      Depth Width Panel Jamb      Panel Jamb
6 'NYYY' 'YYYY' 0.000 0.000 '-' ' '-' ' 'N ' 'N '

```

```
*(10)STEP ELEVATION:
*No.
*Step      Start      End      Base      Eave      Step      -Slope_Offset-
1 0.0000 112.0000 0.0000 0.0000 '-' 0.0000 0.0000
```

```
*(11)HALL SYSTEM:
* No. Hall
-----
*Hall Id Type Orn Opt      Width Height Locate Offset Length Depth Width L R S
E
0
```

```
*(12)WALL PARTITIONS:
*Sets_Of Wall      Wall      Column
```

|         |           |     |        |          |
|---------|-----------|-----|--------|----------|
| *Purlin | Flg Strap | Set | Purlin | Max Unbr |
|---------|-----------|-----|--------|----------|

| Type | Opt | OS  | IS  | Offset | Depth | Lap    | Length |
|------|-----|-----|-----|--------|-------|--------|--------|
| 'ZB' | '-' | 'C' | 'N' | 0.000  | 6.000 | 1.0000 | 0.0000 |

\*(20) PURLIN SPACING:

| Peak   | No      | ---Purlin--- |     |  |
|--------|---------|--------------|-----|--|
| Space  | Purlins | Location     | Rot |  |
| 0.0000 | 7       | 5.0000       | 'N' |  |
|        |         | 10.0000      | 'N' |  |
|        |         | 15.0000      | 'N' |  |
|        |         | 20.0000      | 'N' |  |
|        |         | 25.0000      | 'N' |  |
|        |         | 30.0000      | 'N' |  |
|        |         | 35.0000      | 'N' |  |

\*(21) PURLIN SIZE:

| No. | Part |
|-----|------|
| 0   |      |

\*(22) EAVE STRUT:

| Id | Type | Depth | Gutter |
|----|------|-------|--------|
| 2  | '-'  | 0.000 | 'N'    |
| 4  | '-'  | 0.000 | 'N'    |

\*(23) EXTERIOR WALL PANEL:

| Id | Part      | Rot | Opt  | Screw | Color |
|----|-----------|-----|------|-------|-------|
| 1  | 'CUSPANL' | '-' | '--' | 'S--' | 'A1'  |
| 2  | 'CUSPANL' | '-' | '--' | 'S--' | 'A1'  |
| 3  | 'CUSPANL' | '-' | '--' | 'S--' | 'A1'  |
| 4  | 'CUSPANL' | '-' | '--' | 'S--' | 'A1'  |

\*(24) INTERIOR WALL PANEL:

| Id | Part    | Rot | Opt  | Screw | Color |
|----|---------|-----|------|-------|-------|
| 6  | 'PBR29' | 'R' | '--' | 'S--' | 'GL'  |

\*(25) ROOF PANEL:

| Panel   | Panel | Screw | -----Standing_Seam----- |      |      |           |             |
|---------|-------|-------|-------------------------|------|------|-----------|-------------|
| Size    | Opt   | Type  | Use                     | Type | Clip | Seam Type | Clamp       |
| 'PBR26' | '-'   | '--'  | 'S--'                   | 'N'  | '3U' | 3.000     | '-----' 'N' |

\*(26) EXTERIOR WIND FRAMING:

| Id | Shear | Type | Opt | Dead | Bay |
|----|-------|------|-----|------|-----|
| 1  | 'Y'   | 'N'  | '-' | 2.00 | 0   |
| 2  | 'Y'   | 'N'  | '-' | 2.00 | 0   |
| 3  | 'Y'   | 'N'  | '-' | 2.00 | 0   |
| 4  | 'Y'   | 'S'  | '-' | 2.00 | 0   |
| 5  | 'Y'   | 'N'  | '-' | 2.50 | 0   |

\*(27) INTERIOR WIND FRAMING:

| Panel | Brace | Wall | No.      |
|-------|-------|------|----------|
| Shear | Type  | Opt  | Dead Bay |
| 'Y'   | 'N'   | '-'  | 2.00 0   |
| 'Y'   | 'N'   | '-'  | 2.00 0   |

\*(28) BASIC LOADS:

|      |        |      |      |      |       | ---Deflection--- |      |      |
|------|--------|------|------|------|-------|------------------|------|------|
| Dead | Collat | Live | Snow | Rain | Basic | Load_Ratio       |      |      |
| Load | Load   | Load | Load | Load | Wind  | Snow             | Wind | Seis |
| 2.0  | 0.5    | 20.0 | 13.4 | 0.0  | 19.0  | 1.00             | 0.54 | 1.00 |

\*(29) WIND PRESSURE/SUCTION:

| Wind | Wind |
|------|------|
|------|------|

|   |       |       |            |
|---|-------|-------|------------|
| * | Press | Suct  |            |
|   | 16.0  | -17.6 | .. Purlins |
|   | 16.0  | -20.5 | .. Panels  |

\*(30) ROOF EDGE & CORNER ZONES:

| *Surf | No   | Zone | ---Purlin--- |        |       |      | ---Panel---- |      |    |                        |
|-------|------|------|--------------|--------|-------|------|--------------|------|----|------------------------|
| * Id  | Zone | Id   | Width        | Length | Press | Suct | Press        | Suct |    |                        |
| 2     | 11   | 1    | 0.00         | 0.00   | 1.00  | 1.00 | 1.00         | 1.00 | .. | Interior               |
|       |      | 2    | 8.88         | 8.88   | 1.00  | 1.45 | 1.00         | 1.74 | .. | Middle                 |
|       |      | 7    | 2.96         | 8.88   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner top-left        |
|       |      | 8    | 2.96         | 8.88   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner top-right       |
|       |      | 9    | 2.96         | 8.88   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner bot-right       |
|       |      | 10   | 2.96         | 8.88   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner bot-left        |
|       |      | 11   | 5.92         | 2.96   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner Gable top-left  |
|       |      | 12   | 5.92         | 2.96   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner Gable top-right |
|       |      | 13   | 5.92         | 2.96   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner Gable bot-right |
|       |      | 14   | 5.92         | 2.96   | 1.00  | 2.15 | 1.00         | 3.13 | .. | Corner Gable bot-left  |
|       |      | 15   | 8.88         | 8.88   | 1.00  | 1.93 | 1.00         | 2.30 | .. | Exterior               |

\*(31) PURLIN DESIGN LOADS:

| * No_Des | Load |      |        |      |      |       |      |       | Wind | Wind | Aux_Load |  |
|----------|------|------|--------|------|------|-------|------|-------|------|------|----------|--|
| * Loads  | Id   | Dead | Collat | Live | Snow | Drift | Rain | Press | Suct | Id   | Coef     |  |
| 20       | 1    | 1.00 | 1.00   | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |  |
|          | 2    | 1.00 | 1.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |  |
|          | 3    | 1.00 | 1.00   | 0.00 | 1.00 | 1.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |  |
|          | 4    | 1.00 | 1.00   | 0.75 | 0.00 | 0.00  | 0.00 | 0.45  | 0.00 | 0    | 0.00     |  |
|          | 5    | 1.00 | 1.00   | 0.00 | 0.75 | 0.00  | 0.00 | 0.45  | 0.00 | 0    | 0.00     |  |
|          | 6    | 1.00 | 1.00   | 0.00 | 0.75 | 0.75  | 0.00 | 0.45  | 0.00 | 0    | 0.00     |  |
|          | 7    | 0.60 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.60 | 0    | 0.00     |  |
|          | 8    | 1.00 | 1.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 1    | 1.00     |  |
|          | 9    | 1.00 | 1.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.45  | 0.00 | 1    | 0.75     |  |
|          | 10   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 4    | 1.00     |  |
|          | 11   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 5    | 1.00     |  |
|          | 12   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 6    | 1.00     |  |
|          | 13   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 7    | 1.00     |  |
|          | 14   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 8    | 1.00     |  |
|          | 15   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 9    | 1.00     |  |
|          | 16   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 10   | 1.00     |  |
|          | 17   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 2    | 1.00     |  |
|          | 18   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 3    | 1.00     |  |
|          | 19   | 1.00 | 1.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 2    | -1.00    |  |
|          | 20   | 1.00 | 1.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 3    | -1.00    |  |

\*(32) PURLIN DESIGN LOADS: Deflection

| * No_Des | Load |      |        |      |      |       |      |       | Wind | Wind | Aux_Load |  |
|----------|------|------|--------|------|------|-------|------|-------|------|------|----------|--|
| * Loads  | Id   | Dead | Collat | Live | Snow | Drift | Rain | Press | Suct | Id   | Coef     |  |
| 20       | 21   | 1.00 | 1.00   | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |  |
|          | 22   | 1.00 | 1.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |  |
|          | 23   | 1.00 | 1.00   | 0.00 | 1.00 | 1.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |  |
|          | 24   | 1.00 | 1.00   | 0.75 | 0.00 | 0.00  | 0.00 | 0.75  | 0.00 | 0    | 0.00     |  |
|          | 25   | 1.00 | 1.00   | 0.00 | 0.75 | 0.00  | 0.00 | 0.75  | 0.00 | 0    | 0.00     |  |
|          | 26   | 1.00 | 1.00   | 0.00 | 0.75 | 0.75  | 0.00 | 0.75  | 0.00 | 0    | 0.00     |  |
|          | 27   | 0.60 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 1.00 | 0    | 0.00     |  |
|          | 28   | 1.00 | 1.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 1    | 1.00     |  |
|          | 29   | 1.00 | 1.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.75  | 0.00 | 1    | 0.75     |  |
|          | 30   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 4    | 1.00     |  |
|          | 31   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 5    | 1.00     |  |
|          | 32   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 6    | 1.00     |  |
|          | 33   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 7    | 1.00     |  |
|          | 34   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 8    | 1.00     |  |
|          | 35   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 9    | 1.00     |  |
|          | 36   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 10   | 1.00     |  |
|          | 37   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 2    | 1.00     |  |
|          | 38   | 1.00 | 1.00   | 0.00 | 0.50 | 0.00  | 0.00 | 0.00  | 0.00 | 3    | 1.00     |  |
|          | 39   | 1.00 | 1.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 2    | -1.00    |  |

|    |      |      |      |      |      |      |      |      |      |   |       |
|----|------|------|------|------|------|------|------|------|------|---|-------|
| 40 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3 | -1.00 |
|----|------|------|------|------|------|------|------|------|------|---|-------|

\*(33) PANEL DESIGN LOADS:

| No_Des | Load |      |        |      |      |       |      |       | Wind | Wind | Aux_Load |
|--------|------|------|--------|------|------|-------|------|-------|------|------|----------|
| Loads  | Id   | Dead | Collat | Live | Snow | Drift | Rain | Press | Suct | Id   | Coef     |
| 8      | 1    | 1.00 | 0.00   | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |
|        | 2    | 1.00 | 0.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |
|        | 3    | 1.00 | 0.00   | 0.00 | 1.00 | 1.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |
|        | 4    | 1.00 | 0.00   | 0.75 | 0.00 | 0.00  | 0.00 | 0.45  | 0.00 | 0    | 0.00     |
|        | 5    | 1.00 | 0.00   | 0.00 | 0.75 | 0.00  | 0.00 | 0.45  | 0.00 | 0    | 0.00     |
|        | 6    | 0.60 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.60 | 0    | 0.00     |
|        | 7    | 1.00 | 0.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 1    | 1.00     |
|        | 8    | 1.00 | 0.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.45  | 0.00 | 1    | 0.75     |

\*(34) PANEL DESIGN LOADS: Deflection

| No_Des | Load |      |        |      |      |       |      |       | Wind | Wind | Aux_Load |
|--------|------|------|--------|------|------|-------|------|-------|------|------|----------|
| Loads  | Id   | Dead | Collat | Live | Snow | Drift | Rain | Press | Suct | Id   | Coef     |
| 6      | 9    | 0.00 | 0.00   | 1.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |
|        | 10   | 0.00 | 0.00   | 0.00 | 1.00 | 0.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |
|        | 11   | 0.00 | 0.00   | 0.00 | 1.00 | 1.00  | 0.00 | 0.00  | 0.00 | 0    | 0.00     |
|        | 12   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 1.00  | 0.00 | 0    | 0.00     |
|        | 13   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 1.00 | 0    | 0.00     |
|        | 14   | 0.00 | 0.00   | 0.00 | 0.01 | 0.00  | 0.00 | 0.00  | 0.00 | 1    | 1.00     |

\*(35) AUXILIARY LOADS:

| No. | Aux | Aux       | No._Add | Add_Load         |
|-----|-----|-----------|---------|------------------|
| Aux | Id  | Name      | Combs   | Id Coef          |
| 10  | 1   | 'MIN_SNOW | ' 1     | 1 1.00           |
|     | 2   | 'PAT_SL_1 | ' 1     | 2 0.50           |
|     | 3   | 'PAT_SL_2 | ' 1     | 9 0.50           |
|     | 4   | 'PAT_SL_3 | ' 2     | 2 0.50<br>3 0.50 |
|     | 5   | 'PAT_SL_4 | ' 2     | 3 0.50<br>4 0.50 |
|     | 6   | 'PAT_SL_5 | ' 2     | 4 0.50<br>5 0.50 |
|     | 7   | 'PAT_SL_6 | ' 2     | 5 0.50<br>6 0.50 |
|     | 8   | 'PAT_SL_7 | ' 2     | 6 0.50<br>7 0.50 |
|     | 9   | 'PAT_SL_8 | ' 2     | 7 0.50<br>8 0.50 |
|     | 10  | 'PAT_SL_9 | ' 2     | 8 0.50<br>9 0.50 |

\*(36) ADDITIONAL LOADS:

| No. | Add | Surf | Basic    | Load | Load | F      |        | D       |         | ---Surface--- |         |
|-----|-----|------|----------|------|------|--------|--------|---------|---------|---------------|---------|
| Add | Id  | Id   | Load     | Type | Orn  | W1     | W2     | D1      | D2      | Start         | End     |
| 9   | 1   | 2    | 'U_SNOW' | 'D ' | 'T'  | -16.00 | -16.00 | 0.0000  | 40.0347 | 0.000         | 112.000 |
|     | 2   | 0    | 'U_SNOW' | 'D ' | 'L'  | -13.44 | -13.44 | 0.0000  | 14.0000 | 0.000         | 0.000   |
|     | 3   | 0    | 'U_SNOW' | 'D ' | 'L'  | -13.44 | -13.44 | 14.0000 | 28.0000 | 0.000         | 0.000   |
|     | 4   | 0    | 'U_SNOW' | 'D ' | 'L'  | -13.44 | -13.44 | 28.0000 | 42.0000 | 0.000         | 0.000   |
|     | 5   | 0    | 'U_SNOW' | 'D ' | 'L'  | -13.44 | -13.44 | 42.0000 | 56.0000 | 0.000         | 0.000   |
|     | 6   | 0    | 'U_SNOW' | 'D ' | 'L'  | -13.44 | -13.44 | 56.0000 | 70.0000 | 0.000         | 0.000   |

|   |   |          |      |     |        |        |         |          |       |       |
|---|---|----------|------|-----|--------|--------|---------|----------|-------|-------|
| 7 | 0 | 'U SNOW' | 'D ' | 'L' | -13.44 | -13.44 | 70.0000 | 84.0000  | 0.000 | 0.000 |
| 8 | 0 | 'U SNOW' | 'D ' | 'L' | -13.44 | -13.44 | 84.0000 | 98.0000  | 0.000 | 0.000 |
| 9 | 0 | 'U SNOW' | 'D ' | 'L' | -13.44 | -13.44 | 98.0000 | 112.0000 | 0.000 | 0.000 |

\*(37) PURLIN BREAK:

| *Opt | No. | Location |
|------|-----|----------|
| '-'  | 0   |          |

\*(38) PANEL SCREWS:

| * No. |         |    |        |       |   |       | Washer |       |                   |       |
|-------|---------|----|--------|-------|---|-------|--------|-------|-------------------|-------|
| *Zone | Locate  | Id | Zone   | Part  |   | Dia   | Limit  | Dia   | -----Spacing----- |       |
| 3     | 'ROOF ' | 0  | 'INT ' | '#17A | ' | 0.209 | 2.900  | 0.500 | 11.429            | 5.714 |
|       | 'ROOF ' | 0  | 'EDGE' | '#17A | ' | 0.209 | 2.900  | 0.500 | 11.429            | 5.714 |
|       | 'ROOF ' | 0  | 'CORN' | '#17A | ' | 0.209 | 2.900  | 0.500 | 11.429            | 5.714 |

\*(39) ADDITIONAL ROOF FRAMING:

| *No. | Id | Use | Orn | Offset | -----Location--- | Start | End | Type | Opt | Rot | Part |
|------|----|-----|-----|--------|------------------|-------|-----|------|-----|-----|------|
| 0    |    |     |     |        |                  |       |     |      |     |     |      |

\*(40) CONNECTION SCREWS:

| *No. | Use    | Part | Limit | Qty |
|------|--------|------|-------|-----|
| 1    | 'LAP ' | '#1A | 2.05  | 6   |

\*AUXILIARY LOAD DESCRIPTIONS:

| * Aux | Id | Description       |
|-------|----|-------------------|
| *     | 1  | Minimum snow load |
| *     | 2  | Pattern snow load |
| *     | 3  | Pattern snow load |
| *     | 4  | Pattern snow load |
| *     | 5  | Pattern snow load |
| *     | 6  | Pattern snow load |
| *     | 7  | Pattern snow load |
| *     | 8  | Pattern snow load |
| *     | 9  | Pattern snow load |
| *     | 10 | Pattern snow load |

\*ADDITIONAL LOAD DESCRIPTIONS:

| * Add | Id | Description                 |
|-------|----|-----------------------------|
| *     | 1  | Minimum snow load surface 2 |
| *     | 2  | Pattern snow load bay 1     |
| *     | 3  | Pattern snow load bay 2     |
| *     | 4  | Pattern snow load bay 3     |
| *     | 5  | Pattern snow load bay 4     |
| *     | 6  | Pattern snow load bay 5     |
| *     | 7  | Pattern snow load bay 6     |
| *     | 8  | Pattern snow load bay 7     |
| *     | 9  | Pattern snow load bay 8     |

\* Code file used was ROOFIBC.18N Version 4.5

STRUCTURAL CODE:  
Design Basis : WS - Working Stress  
Cold Formed Steel : NAUS16

BUILDING CODE:  
Wind Code : IBC 18  
Seismic Zone : B

MODULUS OF ELASTICITY  
Cold Formed Steel : 29500 (ksi )

SURFACE LAYOUT:

| Surface<br>Id | Length | No.<br>Row |
|---------------|--------|------------|
| 2             | 40.035 | 7          |

PURLIN LOCATION:

| Purlin<br>Id | Surf<br>Offset | Space | Load<br>Width | Dead<br>Load | Show<br>Report | -----Max_Load-----<br>Id UC Report |
|--------------|----------------|-------|---------------|--------------|----------------|------------------------------------|
| 1            | 5.004          | 5.004 | 5.004         | 0.54         |                | 4 0.97 Moment                      |
| 2            | 10.009         | 5.004 | 5.004         | 0.54         |                | 4 0.97 Moment                      |
| 3            | 15.013         | 5.004 | 5.004         | 0.54         |                | 4 0.97 Moment                      |
| 4            | 20.017         | 5.004 | 5.004         | 0.54         | Y              | 4 0.97 Moment                      |
| 5            | 25.022         | 5.004 | 5.004         | 0.54         |                | 4 0.97 Moment                      |
| 6            | 30.026         | 5.004 | 5.004         | 0.54         |                | 4 0.97 Moment                      |
| 7            | 35.030         | 5.004 | 5.004         | 0.54         |                | 4 0.97 Moment                      |
|              | 40.035         | 5.004 |               |              |                |                                    |

-----  
Average= 0.54

LAYOUT:

| Bay<br>Id   | Part    | Bay<br>Width | ---Lap(ft)---<br>Left Right | No.<br>Brace | Unit<br>Weight | Total<br>Weight |
|-------------|---------|--------------|-----------------------------|--------------|----------------|-----------------|
| 1           | 6X25Z14 | 28.00        |                             | 1.00         | 0              | 81.2 568.4      |
| 2           | 6X25Z16 | 28.00        | 1.00                        | 1.00         | 0              | 70.2 491.4      |
| 3           | 6X25Z16 | 28.00        | 1.00                        | 1.00         | 0              | 70.2 491.4      |
| 4           | 6X25Z14 | 28.00        | 1.00                        |              | 0              | 81.2 568.4      |
| Total (lb)= |         |              |                             |              | 302.8          | 2119.6          |

LOAD COMBINATIONS:

4 - Dead+Collateral+0.75Live+0.45Wind\_Pressure

ROOF PURLIN

Surface Id = 2

Purlin Id = 4

Offset = 20.02

PURLIN LAYOUT:

| Bay Id | Part    | Design Length (ft) | ---Lap(ft)--- |       | Load Width | No. Brace | Unit Weight | Available Reduction |      |
|--------|---------|--------------------|---------------|-------|------------|-----------|-------------|---------------------|------|
|        |         |                    | Left          | Right |            |           |             | Out                 | In   |
| 1      | 6X25Z14 | 14.00              |               |       | 5.00       | 0         | 39.2        | 0.00                | 0.70 |
| 1      | 6X25Z14 | 14.00              |               | 1.00  | 5.00       | 0         | 42.0        | 0.00                | 0.70 |
| 2      | 6X25Z16 | 14.00              | 1.00          |       | 5.00       | 0         | 35.1        | 0.00                | 0.70 |
| 2      | 6X25Z16 | 14.00              |               | 1.00  | 5.00       | 0         | 35.1        | 0.00                | 0.70 |
| 3      | 6X25Z16 | 14.00              | 1.00          |       | 5.00       | 0         | 35.1        | 0.00                | 0.70 |
| 3      | 6X25Z16 | 14.00              |               | 1.00  | 5.00       | 0         | 35.1        | 0.00                | 0.70 |
| 4      | 6X25Z14 | 14.00              | 1.00          |       | 5.00       | 0         | 42.0        | 0.00                | 0.70 |
| 4      | 6X25Z14 | 14.00              |               |       | 5.00       | 0         | 39.2        | 0.00                | 0.70 |

LOAD ID 1 : Dead+Collateral+Live

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |      |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Loc  | Right Lap | Right Sup |
| 1      | 0.62                |          |           | -0.95     | 0.00                   |          | -1.72        | 5.54 |           | 2.30      |
| 1      | 0.82                |          | -0.64     | -0.75     | 2.30                   |          | -0.70        | 7.30 | 1.13      | 1.82      |
| 2      | 0.79                | 0.67     |           | -0.79     | 1.82                   | 1.09     | -0.93        | 7.00 |           | 1.82      |
| 2      | 0.78                |          | -0.68     | -0.80     | 1.82                   |          | -0.88        | 6.92 | 1.20      | 1.94      |
| 3      | 0.80                | 0.68     |           | -0.78     | 1.94                   | 1.20     | -0.88        | 7.08 |           | 1.82      |
| 3      | 0.79                |          | -0.67     | -0.79     | 1.82                   |          | -0.93        | 7.00 | 1.09      | 1.82      |
| 4      | 0.75                | 0.64     |           | -0.82     | 1.82                   | 1.13     | -0.70        | 6.70 |           | 2.30      |
| 4      | 0.95                |          |           | -0.62     | 2.30                   |          | -1.72        | 8.46 |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup                | -0.95 | 6.04  | 0.16 | RSup                   | 2.30 | 2.79  | 0.82 | RSup      | 0.71 | -0.36       |       |
| 1      | LSup                | 0.82  | 6.04  | 0.14 | LSup                   | 2.30 | 2.77  | 0.83 | LSup      | 0.70 | -0.07       |       |
| 2      | RSup                | -0.79 | 3.86  | 0.20 | RSup                   | 1.82 | 2.05  | 0.89 | RSup      | 0.72 | -0.18       |       |
| 2      | LSup                | 0.78  | 3.86  | 0.20 | LSup                   | 1.82 | 2.05  | 0.89 | LSup      | 0.72 | -0.16       |       |
| 3      | RSup                | -0.78 | 3.86  | 0.20 | RSup                   | 1.82 | 2.05  | 0.89 | RSup      | 0.72 | -0.16       |       |
| 3      | LSup                | 0.79  | 3.86  | 0.20 | LSup                   | 1.82 | 2.05  | 0.89 | LSup      | 0.72 | -0.18       |       |
| 4      | RSup                | -0.82 | 6.04  | 0.14 | RSup                   | 2.30 | 2.77  | 0.83 | RSup      | 0.70 | -0.07       |       |
| 4      | LSup                | 0.95  | 6.04  | 0.16 | LSup                   | 2.30 | 2.79  | 0.82 | LSup      | 0.71 | -0.36       |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2      | 14.0       | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3      | 14.0       | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4      | 14.0       | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5      | 14.0       | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |

|   |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|---|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| 6 | 14.0 | 2.9 | 1.0 | 1.0 | 1.9 | 1.0  | 0.00 | 1.00 | 1.00 | 0.00 | 0.60 | 1.80 | 1.00 | 1.00 | 1.76 | 1.20 |
| 7 | 14.0 | 1.0 | 2.2 | 1.0 | 3.8 | 3.8  | 0.62 | 0.00 | 1.00 | 0.00 | 0.00 | 1.19 | 1.79 | 1.00 | 1.85 | 1.85 |
| 8 | 14.0 | 2.9 | 1.0 | 1.0 | 1.0 | 11.1 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.77 | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 2 : Dead+Collateral+Snow

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |      |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Loc  | Right Lap | Right Sup |
| 1      | 0.44                |          |           | -0.67     | 0.00                   |          | -1.22        | 5.54 |           | 1.62      |
| 1      | 0.58                |          | -0.45     | -0.53     | 1.62                   |          | -0.49        | 7.30 | 0.80      | 1.29      |
| 2      | 0.56                | 0.48     |           | -0.56     | 1.29                   | 0.77     | -0.66        | 7.00 |           | 1.28      |
| 2      | 0.55                |          | -0.48     | -0.56     | 1.28                   |          | -0.62        | 6.92 | 0.85      | 1.37      |
| 3      | 0.56                | 0.48     |           | -0.55     | 1.37                   | 0.85     | -0.62        | 7.08 |           | 1.28      |
| 3      | 0.56                |          | -0.48     | -0.56     | 1.28                   |          | -0.66        | 7.00 | 0.77      | 1.29      |
| 4      | 0.53                | 0.45     |           | -0.58     | 1.29                   | 0.80     | -0.49        | 6.70 |           | 1.62      |
| 4      | 0.67                |          |           | -0.44     | 1.62                   |          | -1.22        | 8.46 |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup                | -0.67 | 6.04  | 0.11 | RSup                   | 1.62 | 2.79  | 0.58 | RSup      | 0.50 | -0.26       |       |
| 1      | LSup                | 0.58  | 6.04  | 0.10 | LSup                   | 1.62 | 2.77  | 0.59 | LSup      | 0.50 | -0.05       |       |
| 2      | RSup                | -0.56 | 3.86  | 0.14 | RSup                   | 1.28 | 2.05  | 0.63 | RSup      | 0.51 | -0.13       |       |
| 2      | LSup                | 0.55  | 3.86  | 0.14 | LSup                   | 1.28 | 2.05  | 0.63 | LSup      | 0.51 | -0.11       |       |
| 3      | RSup                | -0.55 | 3.86  | 0.14 | RSup                   | 1.28 | 2.05  | 0.63 | RSup      | 0.51 | -0.11       |       |
| 3      | LSup                | 0.56  | 3.86  | 0.14 | LSup                   | 1.28 | 2.05  | 0.63 | LSup      | 0.51 | -0.13       |       |
| 4      | RSup                | -0.58 | 6.04  | 0.10 | RSup                   | 1.62 | 2.77  | 0.59 | RSup      | 0.50 | -0.05       |       |
| 4      | LSup                | 0.67  | 6.04  | 0.11 | LSup                   | 1.62 | 2.79  | 0.58 | LSup      | 0.50 | -0.26       |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2      | 14.0       | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3      | 14.0       | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4      | 14.0       | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5      | 14.0       | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6      | 14.0       | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.60 | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7      | 14.0       | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00 | 1.00 | 0.00 | 0.00 | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8      | 14.0       | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 3 : Dead+Collateral+Snow+Snow\_Drift

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |      |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Loc  | Right Lap | Right Sup |
| 1      | 0.44                |          |           | -0.67     | 0.00                   |          | -1.22        | 5.54 |           | 1.62      |
| 1      | 0.58                |          | -0.45     | -0.53     | 1.62                   |          | -0.49        | 7.30 | 0.80      | 1.29      |
| 2      | 0.56                | 0.48     |           | -0.56     | 1.29                   | 0.77     | -0.66        | 7.00 |           | 1.28      |
| 2      | 0.55                |          | -0.48     | -0.56     | 1.28                   |          | -0.62        | 6.92 | 0.85      | 1.37      |
| 3      | 0.56                | 0.48     |           | -0.55     | 1.37                   | 0.85     | -0.62        | 7.08 |           | 1.28      |
| 3      | 0.56                |          | -0.48     | -0.56     | 1.28                   |          | -0.66        | 7.00 | 0.77      | 1.29      |
| 4      | 0.53                | 0.45     |           | -0.58     | 1.29                   | 0.80     | -0.49        | 6.70 |           | 1.62      |
| 4      | 0.67                |          |           | -0.44     | 1.62                   |          | -1.22        | 8.46 |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
| Id  | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup                | -0.67 | 6.04  | 0.11 | RSup                   | 1.62 | 2.79  | 0.58 | RSup      | 0.50 | -0.26       |       |
| 1   | LSup                | 0.58  | 6.04  | 0.10 | LSup                   | 1.62 | 2.77  | 0.59 | LSup      | 0.50 | -0.05       |       |
| 2   | RSup                | -0.56 | 3.86  | 0.14 | RSup                   | 1.28 | 2.05  | 0.63 | RSup      | 0.51 | -0.13       |       |
| 2   | LSup                | 0.55  | 3.86  | 0.14 | LSup                   | 1.28 | 2.05  | 0.63 | LSup      | 0.51 | -0.11       |       |
| 3   | RSup                | -0.55 | 3.86  | 0.14 | RSup                   | 1.28 | 2.05  | 0.63 | RSup      | 0.51 | -0.11       |       |
| 3   | LSup                | 0.56  | 3.86  | 0.14 | LSup                   | 1.28 | 2.05  | 0.63 | LSup      | 0.51 | -0.13       |       |
| 4   | RSup                | -0.58 | 6.04  | 0.10 | RSup                   | 1.62 | 2.77  | 0.59 | RSup      | 0.50 | -0.05       |       |
| 4   | LSup                | 0.67  | 6.04  | 0.11 | LSup                   | 1.62 | 2.79  | 0.58 | LSup      | 0.50 | -0.26       |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2   | 14.0  | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3   | 14.0  | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4   | 14.0  | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.60 | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7   | 14.0  | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00 | 1.00 | 0.00 | 0.00 | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID     4 : Dead+Collateral+0.75Live+0.45Wind\_Pressure

REACTIONS:

| Bay | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |      |           |           |
|-----|---------------------|----------|-----------|-----------|------------------------|----------|--------------|------|-----------|-----------|
| Id  | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Loc  | Right Lap | Right Sup |
| 1   | 0.68                |          |           | -1.04     | 0.00                   |          | -1.89        | 5.54 |           | 2.53      |
| 1   | 0.90                |          | -0.70     | -0.83     | 2.53                   |          | -0.77        | 7.30 | 1.24      | 2.00      |
| 2   | 0.86                | 0.74     |           | -0.86     | 2.00                   | 1.20     | -1.03        | 7.00 |           | 2.00      |
| 2   | 0.85                |          | -0.75     | -0.87     | 2.00                   |          | -0.96        | 6.92 | 1.32      | 2.13      |
| 3   | 0.87                | 0.75     |           | -0.85     | 2.13                   | 1.32     | -0.96        | 7.08 |           | 2.00      |
| 3   | 0.86                |          | -0.74     | -0.86     | 2.00                   |          | -1.03        | 7.00 | 1.20      | 2.00      |
| 4   | 0.83                | 0.70     |           | -0.90     | 2.00                   | 1.24     | -0.77        | 6.70 |           | 2.53      |
| 4   | 1.04                |          |           | -0.68     | 2.53                   |          | -1.89        | 8.46 |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
| Id  | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup                | -1.04 | 6.04  | 0.17 | RSup                   | 2.53 | 2.79  | 0.90 | RSup      | 0.78 | -0.40       |       |
| 1   | LSup                | 0.90  | 6.04  | 0.15 | LSup                   | 2.53 | 2.77  | 0.91 | LSup      | 0.77 | -0.08       |       |
| 2   | RSup                | -0.86 | 3.86  | 0.22 | RSup                   | 2.00 | 2.05  | 0.97 | RSup      | 0.79 | -0.20       |       |
| 2   | LSup                | 0.85  | 3.86  | 0.22 | LSup                   | 2.00 | 2.05  | 0.97 | LSup      | 0.79 | -0.17       |       |
| 3   | RSup                | -0.85 | 3.86  | 0.22 | RSup                   | 2.00 | 2.05  | 0.97 | RSup      | 0.79 | -0.17       |       |
| 3   | LSup                | 0.86  | 3.86  | 0.22 | LSup                   | 2.00 | 2.05  | 0.97 | LSup      | 0.79 | -0.20       |       |
| 4   | RSup                | -0.90 | 6.04  | 0.15 | RSup                   | 2.53 | 2.77  | 0.91 | RSup      | 0.77 | -0.08       |       |
| 4   | LSup                | 1.04  | 6.04  | 0.17 | LSup                   | 2.53 | 2.79  | 0.90 | LSup      | 0.78 | -0.40       |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2   | 14.0  | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3   | 14.0  | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4   | 14.0  | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.60 | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |

|   |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|---|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| 7 | 14.0 | 1.0 | 2.2 | 1.0 | 3.8 | 3.8  | 0.62 | 0.00 | 1.00 | 0.00 | 0.00 | 1.19 | 1.79 | 1.00 | 1.85 | 1.85 |
| 8 | 14.0 | 2.9 | 1.0 | 1.0 | 1.0 | 11.1 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.77 | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 5 : Dead+Collateral+0.75Snow+0.45Wind\_Pressure

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.55                |          |           | -0.84     | 0.00                   |          | -1.51        | 5.54         |           | 2.02      |
| 1      | 0.72                |          | -0.56     | -0.66     | 2.02                   |          | -0.61        | 7.30         | 0.99      | 1.60      |
| 2      | 0.69                | 0.59     |           | -0.69     | 1.60                   | 0.96     | -0.82        | 7.00         |           | 1.60      |
| 2      | 0.68                |          | -0.60     | -0.70     | 1.60                   |          | -0.77        | 6.92         | 1.05      | 1.70      |
| 3      | 0.70                | 0.60     |           | -0.68     | 1.70                   | 1.05     | -0.77        | 7.08         |           | 1.60      |
| 3      | 0.69                |          | -0.59     | -0.69     | 1.60                   |          | -0.82        | 7.00         | 0.96      | 1.60      |
| 4      | 0.66                | 0.56     |           | -0.72     | 1.60                   | 0.99     | -0.61        | 6.70         |           | 2.02      |
| 4      | 0.84                |          |           | -0.55     | 2.02                   |          | -1.51        | 8.46         |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup                | -0.84 | 6.04  | 0.14 | RSup                   | 2.02 | 2.79  | 0.72 | RSup      | 0.62 | -0.32       |       |
| 1      | LSup                | 0.72  | 6.04  | 0.12 | LSup                   | 2.02 | 2.77  | 0.73 | LSup      | 0.62 | -0.07       |       |
| 2      | RSup                | -0.69 | 3.86  | 0.18 | RSup                   | 1.60 | 2.05  | 0.78 | RSup      | 0.63 | -0.16       |       |
| 2      | LSup                | 0.68  | 3.86  | 0.18 | LSup                   | 1.60 | 2.05  | 0.78 | LSup      | 0.63 | -0.14       |       |
| 3      | RSup                | -0.68 | 3.86  | 0.18 | RSup                   | 1.60 | 2.05  | 0.78 | RSup      | 0.63 | -0.14       |       |
| 3      | LSup                | 0.69  | 3.86  | 0.18 | LSup                   | 1.60 | 2.05  | 0.78 | LSup      | 0.63 | -0.16       |       |
| 4      | RSup                | -0.72 | 6.04  | 0.12 | RSup                   | 2.02 | 2.77  | 0.73 | RSup      | 0.62 | -0.07       |       |
| 4      | LSup                | 0.84  | 6.04  | 0.14 | LSup                   | 2.02 | 2.79  | 0.72 | LSup      | 0.62 | -0.32       |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2      | 14.0       | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3      | 14.0       | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4      | 14.0       | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5      | 14.0       | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6      | 14.0       | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.60 | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7      | 14.0       | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00 | 1.00 | 0.00 | 0.00 | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8      | 14.0       | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 6 : Dead+Collateral+0.75Snow+0.45Wind\_Pressure+0.75Snow\_Drift

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |              |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|--------------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Mid-Span Loc | Right Lap | Right Sup |
| 1      | 0.55                |          |           | -0.84     | 0.00                   |          | -1.51        | 5.54         |           | 2.02      |
| 1      | 0.72                |          | -0.56     | -0.66     | 2.02                   |          | -0.61        | 7.30         | 0.99      | 1.60      |
| 2      | 0.69                | 0.59     |           | -0.69     | 1.60                   | 0.96     | -0.82        | 7.00         |           | 1.60      |
| 2      | 0.68                |          | -0.60     | -0.70     | 1.60                   |          | -0.77        | 6.92         | 1.05      | 1.70      |
| 3      | 0.70                | 0.60     |           | -0.68     | 1.70                   | 1.05     | -0.77        | 7.08         |           | 1.60      |
| 3      | 0.69                |          | -0.59     | -0.69     | 1.60                   |          | -0.82        | 7.00         | 0.96      | 1.60      |
| 4      | 0.66                | 0.56     |           | -0.72     | 1.60                   | 0.99     | -0.61        | 6.70         |           | 2.02      |
| 4      | 0.84                |          |           | -0.55     | 2.02                   |          | -1.51        | 8.46         |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |  |  |  | -----Moment(f-k )----- |  |  |  | Mom+Shear | Deflect(in) |
|-----|---------------------|--|--|--|------------------------|--|--|--|-----------|-------------|
|-----|---------------------|--|--|--|------------------------|--|--|--|-----------|-------------|

| Id | Loc  | Calc  | Limit | UC   | Loc  | Calc | Limit | UC   | Loc  | UC   | Calc  | Limit |
|----|------|-------|-------|------|------|------|-------|------|------|------|-------|-------|
| 1  | RSup | -0.84 | 6.04  | 0.14 | RSup | 2.02 | 2.79  | 0.72 | RSup | 0.62 | -0.32 |       |
| 1  | LSup | 0.72  | 6.04  | 0.12 | LSup | 2.02 | 2.77  | 0.73 | LSup | 0.62 | -0.07 |       |
| 2  | RSup | -0.69 | 3.86  | 0.18 | RSup | 1.60 | 2.05  | 0.78 | RSup | 0.63 | -0.16 |       |
| 2  | LSup | 0.68  | 3.86  | 0.18 | LSup | 1.60 | 2.05  | 0.78 | LSup | 0.63 | -0.14 |       |
| 3  | RSup | -0.68 | 3.86  | 0.18 | RSup | 1.60 | 2.05  | 0.78 | RSup | 0.63 | -0.14 |       |
| 3  | LSup | 0.69  | 3.86  | 0.18 | LSup | 1.60 | 2.05  | 0.78 | LSup | 0.63 | -0.16 |       |
| 4  | RSup | -0.72 | 6.04  | 0.12 | RSup | 2.02 | 2.77  | 0.73 | RSup | 0.62 | -0.07 |       |
| 4  | LSup | 0.84  | 6.04  | 0.14 | LSup | 2.02 | 2.79  | 0.72 | LSup | 0.62 | -0.32 |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2   | 14.0  | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3   | 14.0  | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4   | 14.0  | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.60 | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7   | 14.0  | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00 | 1.00 | 0.00 | 0.00 | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID     7 : 0.6Dead+0.6Wind\_Suction

REACTIONS:

| Bay | -----Shear(k )----- |       |       |       | -----Moment(f-k )----- |       |          |      |       |       |
|-----|---------------------|-------|-------|-------|------------------------|-------|----------|------|-------|-------|
|     | Left                | Left  | Right | Right | Left                   | Left  | Mid-Span |      | Right | Right |
| Id  | Sup                 | Lap   | Lap   | Sup   | Sup                    | Lap   | Mom      | Loc  | Lap   | Sup   |
| 1   | -0.54               |       |       | 0.68  | 0.00                   |       | 1.49     | 6.20 |       | -1.55 |
| 1   | -0.48               |       | 0.24  | 0.29  | -1.55                  |       | 0.17     | 8.65 | -0.42 | -0.69 |
| 2   | -0.33               | -0.29 |       | 0.35  | -0.69                  | -0.38 | 0.45     | 6.81 |       | -0.82 |
| 2   | -0.34               |       | 0.30  | 0.34  | -0.82                  |       | 0.38     | 6.99 | -0.51 | -0.83 |
| 3   | -0.34               | -0.30 |       | 0.34  | -0.83                  | -0.51 | 0.38     | 7.01 |       | -0.82 |
| 3   | -0.35               |       | 0.29  | 0.33  | -0.82                  |       | 0.45     | 7.19 | -0.38 | -0.69 |
| 4   | -0.29               | -0.24 |       | 0.48  | -0.69                  | -0.42 | 0.17     | 5.35 |       | -1.55 |
| 4   | -0.68               |       |       | 0.54  | -1.55                  |       | 1.49     | 7.80 |       | 0.00  |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|-------|-------|------|-----------|------|-------------|-------|
| Id  | Loc                 | Calc  | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup                | 0.68  | 6.04  | 0.11 | MidS                   | 1.49  | 2.33  | 0.64 | RSup      | 0.48 | 0.33        |       |
| 1   | LSup                | -0.48 | 6.04  | 0.08 | LSup                   | -1.55 | 2.63  | 0.59 | LSup      | 0.47 | -0.01       |       |
| 2   | RSup                | 0.35  | 3.86  | 0.09 | RSup                   | -0.82 | 1.93  | 0.43 | RSup      | 0.33 | 0.09        |       |
| 2   | LSup                | -0.34 | 3.86  | 0.09 | LSup                   | -0.82 | 1.93  | 0.43 | LSup      | 0.33 | 0.07        |       |
| 3   | RSup                | 0.34  | 3.86  | 0.09 | RSup                   | -0.82 | 1.93  | 0.43 | RSup      | 0.33 | 0.07        |       |
| 3   | LSup                | -0.35 | 3.86  | 0.09 | LSup                   | -0.82 | 1.93  | 0.43 | LSup      | 0.33 | 0.09        |       |
| 4   | RSup                | 0.48  | 6.04  | 0.08 | RSup                   | -1.55 | 2.63  | 0.59 | RSup      | 0.47 | -0.01       |       |
| 4   | LSup                | -0.68 | 6.04  | 0.11 | MidS                   | 1.49  | 2.33  | 0.64 | LSup      | 0.48 | 0.33        |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.2                | 11.2 | 11.2 | 11.2 | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.14         | 1.14 | 1.14 | 1.14 | 1.00 |
| 2   | 14.0  | 1.0                 | 1.0  | 4.1  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.07 | 1.00 | 1.00 |
| 3   | 14.0  | 1.0                 | 1.0  | 8.1  | 8.1  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.12 | 1.12 | 1.00 |
| 4   | 14.0  | 1.0                 | 7.3  | 7.3  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.12 | 1.12 | 1.00 | 1.00 |
| 5   | 14.0  | 1.0                 | 1.0  | 7.3  | 7.3  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.12 | 1.12 | 1.00 |
| 6   | 14.0  | 1.0                 | 8.1  | 8.1  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.12 | 1.12 | 1.00 | 1.00 |
| 7   | 14.0  | 1.0                 | 1.0  | 4.1  | 1.0  | 1.0  | 1.00                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00         | 1.00 | 1.07 | 1.00 | 1.00 |

8 14.0 1.0 11.2 11.2 11.2 11.2 1.00 1.00 1.00 1.00 1.00 1.00 1.14 1.14 1.14 1.14

LOAD ID 8 : Dead+Collateral+MIN\_SNOW

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REACTIONS:

| Bay<br>Id | -----Shear(k )----- |             |              |              | -----Moment(f-k )----- |             |                 |                 |              |              |
|-----------|---------------------|-------------|--------------|--------------|------------------------|-------------|-----------------|-----------------|--------------|--------------|
|           | Left<br>Sup         | Left<br>Lap | Right<br>Lap | Right<br>Sup | Left<br>Sup            | Left<br>Lap | Mid-Span<br>Mom | Mid-Span<br>Loc | Right<br>Lap | Right<br>Sup |
| 1         | 0.51                |             |              | -0.78        | 0.00                   |             | -1.42           | 5.54            |              | 1.89         |
| 1         | 0.67                |             | -0.53        | -0.62        | 1.89                   |             | -0.57           | 7.30            | 0.93         | 1.50         |
| 2         | 0.65                | 0.55        |              | -0.65        | 1.50                   | 0.90        | -0.77           | 7.00            |              | 1.49         |
| 2         | 0.64                |             | -0.56        | -0.65        | 1.49                   |             | -0.72           | 6.92            | 0.99         | 1.59         |
| 3         | 0.65                | 0.56        |              | -0.64        | 1.59                   | 0.99        | -0.72           | 7.08            |              | 1.49         |
| 3         | 0.65                |             | -0.55        | -0.65        | 1.49                   |             | -0.77           | 7.00            | 0.90         | 1.50         |
| 4         | 0.62                | 0.53        |              | -0.67        | 1.50                   | 0.93        | -0.57           | 6.70            |              | 1.89         |
| 4         | 0.78                |             |              | -0.51        | 1.89                   |             | -1.42           | 8.46            |              | 0.00         |

STRENGTH/DEFLECTION:

| Bay<br>Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|           | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1         | RSup                | -0.78 | 6.04  | 0.13 | RSup                   | 1.89 | 2.79  | 0.68 | RSup      | 0.58 | -0.30       |       |
| 1         | LSup                | 0.67  | 6.04  | 0.11 | LSup                   | 1.89 | 2.76  | 0.68 | LSup      | 0.58 | -0.06       |       |
| 2         | RSup                | -0.65 | 3.86  | 0.17 | RSup                   | 1.49 | 2.05  | 0.73 | RSup      | 0.59 | -0.15       |       |
| 2         | LSup                | 0.64  | 3.86  | 0.17 | LSup                   | 1.49 | 2.05  | 0.73 | LSup      | 0.59 | -0.13       |       |
| 3         | RSup                | -0.64 | 3.86  | 0.17 | RSup                   | 1.49 | 2.05  | 0.73 | RSup      | 0.59 | -0.13       |       |
| 3         | LSup                | 0.65  | 3.86  | 0.17 | LSup                   | 1.49 | 2.05  | 0.73 | LSup      | 0.59 | -0.15       |       |
| 4         | RSup                | -0.67 | 6.04  | 0.11 | RSup                   | 1.89 | 2.76  | 0.68 | RSup      | 0.58 | -0.06       |       |
| 4         | LSup                | 0.78  | 6.04  | 0.13 | LSup                   | 1.89 | 2.79  | 0.68 | LSup      | 0.58 | -0.30       |       |

UNBRACED LENGTH:

| Bay<br>Id | Major<br>(ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----------|---------------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|           |               | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1         | 14.0          | 11.0                | 1.0  | 1.0  | 1.0  | 3.0  | 1.00                | 1.00  | 1.00 | 1.00  | -0.03 | 1.13         | 1.00 | 1.00 | 1.00 | 1.83 |
| 2         | 14.0          | 4.0                 | 4.0  | 1.0  | 2.3  | 1.0  | -0.04               | -0.04 | 1.00 | -0.04 | 0.62  | 1.94         | 1.94 | 1.00 | 1.85 | 1.19 |
| 3         | 14.0          | 1.0                 | 2.0  | 1.0  | 1.0  | 3.1  | 0.60                | -0.03 | 1.00 | 1.00  | -0.04 | 1.20         | 1.81 | 1.00 | 1.00 | 1.87 |
| 4         | 14.0          | 3.1                 | 1.0  | 1.0  | 2.2  | 1.0  | -0.04               | 1.00  | 1.00 | -0.04 | 0.62  | 1.87         | 1.00 | 1.00 | 1.83 | 1.19 |
| 5         | 14.0          | 1.0                 | 2.2  | 1.0  | 1.0  | 3.1  | 0.62                | -0.04 | 1.00 | 1.00  | -0.04 | 1.19         | 1.83 | 1.00 | 1.00 | 1.87 |
| 6         | 14.0          | 3.1                 | 1.0  | 1.0  | 2.0  | 1.0  | -0.04               | 1.00  | 1.00 | -0.03 | 0.60  | 1.87         | 1.00 | 1.00 | 1.81 | 1.20 |
| 7         | 14.0          | 1.0                 | 2.3  | 1.0  | 4.0  | 4.0  | 0.62                | -0.04 | 1.00 | -0.04 | -0.04 | 1.19         | 1.85 | 1.00 | 1.94 | 1.94 |
| 8         | 14.0          | 3.0                 | 1.0  | 1.0  | 1.0  | 11.0 | -0.03               | 1.00  | 1.00 | 1.00  | 1.00  | 1.83         | 1.00 | 1.00 | 1.00 | 1.13 |

LOAD ID 9 : Dead+Collateral+0.45Wind\_Pressure+0.75MIN\_SNOW

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REACTIONS:

| Bay<br>Id | -----Shear(k )----- |             |              |              | -----Moment(f-k )----- |             |                 |                 |              |              |
|-----------|---------------------|-------------|--------------|--------------|------------------------|-------------|-----------------|-----------------|--------------|--------------|
|           | Left<br>Sup         | Left<br>Lap | Right<br>Lap | Right<br>Sup | Left<br>Sup            | Left<br>Lap | Mid-Span<br>Mom | Mid-Span<br>Loc | Right<br>Lap | Right<br>Sup |
| 1         | 0.60                |             |              | -0.92        | 0.00                   |             | -1.66           | 5.54            |              | 2.22         |
| 1         | 0.79                |             | -0.62        | -0.73        | 2.22                   |             | -0.67           | 7.30            | 1.09         | 1.76         |
| 2         | 0.76                | 0.65        |              | -0.76        | 1.76                   | 1.05        | -0.90           | 7.00            |              | 1.75         |
| 2         | 0.75                |             | -0.66        | -0.77        | 1.75                   |             | -0.85           | 6.92            | 1.16         | 1.87         |
| 3         | 0.77                | 0.66        |              | -0.75        | 1.87                   | 1.16        | -0.85           | 7.08            |              | 1.75         |
| 3         | 0.76                |             | -0.65        | -0.76        | 1.75                   |             | -0.90           | 7.00            | 1.05         | 1.76         |
| 4         | 0.73                | 0.62        |              | -0.79        | 1.76                   | 1.09        | -0.67           | 6.70            |              | 2.22         |
| 4         | 0.92                |             |              | -0.60        | 2.22                   |             | -1.66           | 8.46            |              | 0.00         |

STRENGTH/DEFLECTION:

| Bay<br>Id | -----Shear(k )----- |      |       |    | -----Moment(f-k )----- |      |       |    | Mom+Shear |    | Deflect(in) |       |
|-----------|---------------------|------|-------|----|------------------------|------|-------|----|-----------|----|-------------|-------|
|           | Loc                 | Calc | Limit | UC | Loc                    | Calc | Limit | UC | Loc       | UC | Calc        | Limit |

|   |      |       |      |      |      |      |      |      |      |      |       |
|---|------|-------|------|------|------|------|------|------|------|------|-------|
| 1 | RSup | -0.92 | 6.04 | 0.15 | RSup | 2.22 | 2.79 | 0.80 | RSup | 0.68 | -0.35 |
| 1 | LSup | 0.79  | 6.04 | 0.13 | LSup | 2.22 | 2.76 | 0.80 | LSup | 0.68 | -0.07 |
| 2 | RSup | -0.76 | 3.86 | 0.20 | RSup | 1.75 | 2.05 | 0.86 | RSup | 0.69 | -0.17 |
| 2 | LSup | 0.75  | 3.86 | 0.19 | LSup | 1.75 | 2.05 | 0.86 | LSup | 0.69 | -0.15 |
| 3 | RSup | -0.75 | 3.86 | 0.19 | RSup | 1.75 | 2.05 | 0.86 | RSup | 0.69 | -0.15 |
| 3 | LSup | 0.76  | 3.86 | 0.20 | LSup | 1.75 | 2.05 | 0.86 | LSup | 0.69 | -0.17 |
| 4 | RSup | -0.79 | 6.04 | 0.13 | RSup | 2.22 | 2.76 | 0.80 | RSup | 0.68 | -0.07 |
| 4 | LSup | 0.92  | 6.04 | 0.15 | LSup | 2.22 | 2.79 | 0.80 | LSup | 0.68 | -0.35 |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.0                | 1.0  | 1.0  | 1.0  | 3.0  | 1.00                | 1.00  | 1.00 | 1.00  | -0.03 | 1.13         | 1.00 | 1.00 | 1.00 | 1.83 |
| 2   | 14.0  | 4.0                 | 4.0  | 1.0  | 2.3  | 1.0  | -0.04               | -0.04 | 1.00 | -0.04 | 0.62  | 1.94         | 1.94 | 1.00 | 1.85 | 1.19 |
| 3   | 14.0  | 1.0                 | 2.0  | 1.0  | 1.0  | 3.1  | 0.60                | -0.03 | 1.00 | 1.00  | -0.04 | 1.20         | 1.81 | 1.00 | 1.00 | 1.87 |
| 4   | 14.0  | 3.1                 | 1.0  | 1.0  | 2.2  | 1.0  | -0.04               | 1.00  | 1.00 | -0.04 | 0.62  | 1.87         | 1.00 | 1.00 | 1.83 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.2  | 1.0  | 1.0  | 3.1  | 0.62                | -0.04 | 1.00 | 1.00  | -0.04 | 1.19         | 1.83 | 1.00 | 1.00 | 1.87 |
| 6   | 14.0  | 3.1                 | 1.0  | 1.0  | 2.0  | 1.0  | -0.04               | 1.00  | 1.00 | -0.03 | 0.60  | 1.87         | 1.00 | 1.00 | 1.81 | 1.20 |
| 7   | 14.0  | 1.0                 | 2.3  | 1.0  | 4.0  | 4.0  | 0.62                | -0.04 | 1.00 | -0.04 | -0.04 | 1.19         | 1.85 | 1.00 | 1.94 | 1.94 |
| 8   | 14.0  | 3.0                 | 1.0  | 1.0  | 1.0  | 11.0 | -0.03               | 1.00  | 1.00 | 1.00  | 1.00  | 1.83         | 1.00 | 1.00 | 1.00 | 1.13 |

LOAD ID 10 : Dead+Collateral+Snow/2+PAT\_SL\_3

REACTIONS:

| Bay | -----Shear(k )----- |      |       |       | -----Moment(f-k )----- |      |          |       |       |      |
|-----|---------------------|------|-------|-------|------------------------|------|----------|-------|-------|------|
|     | Left                | Left | Right | Right | Left                   | Left | Mid-Span | Right | Right |      |
| Id  | Sup                 | Lap  | Lap   | Sup   | Sup                    | Lap  | Mom      | Loc   | Lap   | Sup  |
| 1   | 0.43                |      |       | -0.68 | 0.00                   |      | -1.19    | 5.47  |       | 1.71 |
| 1   | 0.61                |      | -0.42 | -0.50 | 1.71                   |      | -0.63    | 7.66  | 0.51  | 0.97 |
| 2   | 0.34                | 0.30 |       | -0.30 | 0.97                   | 0.65 | -0.30    | 7.45  |       | 0.68 |
| 2   | 0.31                |      | -0.28 | -0.33 | 0.68                   |      | -0.38    | 6.80  | 0.50  | 0.81 |
| 3   | 0.33                | 0.28 |       | -0.32 | 0.81                   | 0.51 | -0.35    | 7.11  |       | 0.74 |
| 3   | 0.32                |      | -0.28 | -0.32 | 0.74                   |      | -0.38    | 6.99  | 0.45  | 0.75 |
| 4   | 0.31                | 0.26 |       | -0.34 | 0.75                   | 0.46 | -0.28    | 6.70  |       | 0.94 |
| 4   | 0.39                |      |       | -0.25 | 0.94                   |      | -0.71    | 8.46  |       | 0.00 |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|     | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup                | -0.68 | 6.04  | 0.11 | RSup                   | 1.71 | 2.79  | 0.61 | RSup      | 0.52 | -0.24       |       |
| 1   | LSup                | 0.61  | 6.04  | 0.10 | LSup                   | 1.71 | 2.77  | 0.62 | LSup      | 0.52 | -0.09       |       |
| 2   | RSup                | -0.30 | 3.86  | 0.08 | RSup                   | 0.68 | 2.05  | 0.33 | RSup      | 0.27 | -0.04       |       |
| 2   | LSup                | 0.31  | 3.86  | 0.08 | LSup                   | 0.68 | 2.05  | 0.33 | LSup      | 0.27 | -0.07       |       |
| 3   | RSup                | -0.32 | 3.86  | 0.08 | RSup                   | 0.74 | 2.05  | 0.36 | RSup      | 0.29 | -0.06       |       |
| 3   | LSup                | 0.32  | 3.86  | 0.08 | LSup                   | 0.74 | 2.05  | 0.36 | LSup      | 0.29 | -0.07       |       |
| 4   | RSup                | -0.34 | 6.04  | 0.06 | RSup                   | 0.94 | 2.77  | 0.34 | RSup      | 0.29 | -0.03       |       |
| 4   | LSup                | 0.39  | 6.04  | 0.06 | LSup                   | 0.94 | 2.79  | 0.34 | LSup      | 0.29 | -0.15       |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 10.8                | 1.0  | 1.0  | 1.0  | 3.2  | 1.00                | 1.00  | 1.00 | 1.00  | -0.02 | 1.13         | 1.00 | 1.00 | 1.00 | 1.82 |
| 2   | 14.0  | 3.9                 | 3.9  | 1.0  | 1.6  | 1.0  | -0.03               | -0.03 | 1.00 | -0.13 | 0.52  | 1.90         | 1.90 | 1.00 | 1.95 | 1.25 |
| 3   | 14.0  | 1.0                 | 2.8  | 1.0  | 1.0  | 2.9  | 0.67                | 0.00  | 1.00 | 1.00  | 0.00  | 1.16         | 1.81 | 1.00 | 1.00 | 1.81 |
| 4   | 14.0  | 2.7                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00  | 0.62  | 1.79         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.2  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00  | 1.00 | 1.00  | 0.00  | 1.18         | 1.78 | 1.00 | 1.00 | 1.81 |
| 6   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00  | 0.60  | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7   | 14.0  | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00  | 1.00 | 0.00  | 0.00  | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00  | 1.00 | 1.00  | 1.00  | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

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| Bay Id | Shear (k ) |          |           |           | Moment (f-k ) |          |              |           |           |      |
|--------|------------|----------|-----------|-----------|---------------|----------|--------------|-----------|-----------|------|
|        | Left Sup   | Left Lap | Right Lap | Right Sup | Left Sup      | Left Lap | Mid-Span Mom | Right Lap | Right Sup |      |
| 1      | 0.24       |          |           | -0.41     | 0.00          |          | -0.62        | 5.19      |           | 1.17 |
| 1      | 0.53       |          | -0.50     | -0.58     | 1.17          |          | -0.63        | 6.71      | 0.95      | 1.49 |
| 2      | 0.59       | 0.51     |           | -0.52     | 1.49          | 0.93     | -0.72        | 7.45      |           | 0.99 |
| 2      | 0.34       |          | -0.26     | -0.30     | 0.99          |          | -0.28        | 7.41      | 0.44      | 0.72 |
| 3      | 0.32       | 0.27     |           | -0.32     | 0.72          | 0.43     | -0.38        | 6.94      |           | 0.76 |
| 3      | 0.32       |          | -0.27     | -0.32     | 0.76          |          | -0.38        | 7.03      | 0.44      | 0.74 |
| 4      | 0.31       | 0.26     |           | -0.34     | 0.74          | 0.46     | -0.29        | 6.69      |           | 0.94 |
| 4      | 0.39       |          |           | -0.25     | 0.94          |          | -0.70        | 8.46      |           | 0.00 |

| Bay | -----Shear(k)----- |       |       |      | -----Moment(f-k)----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|--------------------|-------|-------|------|-----------------------|------|-------|------|-----------|------|-------------|-------|
| Id  | Loc                | Calc  | Limit | UC   | Loc                   | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup               | -0.41 | 6.04  | 0.07 | RSup                  | 1.17 | 2.77  | 0.42 | RSup      | 0.36 | -0.11       |       |
| 1   | LSup               | 0.53  | 6.04  | 0.09 | LSup                  | 1.17 | 2.80  | 0.42 | LSup      | 0.36 | -0.09       |       |
| 2   | RSup               | -0.52 | 3.86  | 0.14 | RSup                  | 0.99 | 2.07  | 0.48 | RSup      | 0.40 | -0.15       |       |
| 2   | LSup               | 0.34  | 3.86  | 0.09 | LSup                  | 0.99 | 2.03  | 0.49 | LSup      | 0.39 | -0.03       |       |
| 3   | RSup               | -0.32 | 3.86  | 0.08 | RSup                  | 0.76 | 2.05  | 0.37 | RSup      | 0.30 | -0.07       |       |
| 3   | LSup               | 0.32  | 3.86  | 0.08 | LSup                  | 0.76 | 2.05  | 0.37 | LSup      | 0.30 | -0.07       |       |
| 4   | RSup               | -0.34 | 6.04  | 0.06 | RSup                  | 0.94 | 2.77  | 0.34 | RSup      | 0.29 | -0.03       |       |
| 4   | LSup               | 0.39  | 6.04  | 0.06 | LSup                  | 0.94 | 2.79  | 0.34 | LSup      | 0.29 | -0.15       |       |

| Bay<br>Id | Major<br>(ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----------|---------------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|           |               | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1         | 14.0          | 10.4                | 1.0  | 1.0  | 3.6  | 3.6  | 1.00                | 1.00  | 1.00 | 0.00  | 0.00  | 1.14         | 1.00 | 1.00 | 1.80 | 1.80 |
| 2         | 14.0          | 3.0                 | 1.0  | 1.0  | 2.4  | 1.0  | -0.05               | 1.00  | 1.00 | -0.04 | 0.64  | 1.90         | 1.00 | 1.00 | 1.84 | 1.18 |
| 3         | 14.0          | 1.0                 | 2.3  | 1.0  | 1.0  | 2.6  | 0.63                | -0.03 | 1.00 | 1.00  | -0.10 | 1.18         | 1.82 | 1.00 | 1.00 | 1.94 |
| 4         | 14.0          | 4.0                 | 4.0  | 1.0  | 2.1  | 1.0  | 0.00                | 0.00  | 1.00 | 0.00  | 0.61  | 1.86         | 1.86 | 1.00 | 1.79 | 1.19 |
| 5         | 14.0          | 1.0                 | 1.9  | 1.0  | 1.0  | 3.0  | 0.59                | 0.00  | 1.00 | 1.00  | 0.00  | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 6         | 14.0          | 3.0                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00  | 0.60  | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7         | 14.0          | 1.0                 | 2.1  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00  | 1.00 | 0.00  | 0.00  | 1.19         | 1.78 | 1.00 | 1.85 | 1.85 |
| 8         | 14.0          | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00  | 1.00 | 1.00  | 1.00  | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

| Bay Id | Shear (k ) |          |           |           | Moment (f-k ) |          |              |           |           |           |
|--------|------------|----------|-----------|-----------|---------------|----------|--------------|-----------|-----------|-----------|
|        | Left Sup   | Left Lap | Right Lap | Right Sup | Left Sup      | Left Lap | Mid-Span Mom | Right Loc | Right Lap | Right Sup |
| 1      | 0.26       |          |           | -0.38     | 0.00          |          | -0.73        | 5.65      |           | 0.87      |
| 1      | 0.31       |          | -0.29     | -0.33     | 0.87          |          | -0.18        | 6.74      | 0.73      | 1.04      |
| 2      | 0.53       | 0.45     |           | -0.58     | 1.04          | 0.55     | -0.72        | 6.65      |           | 1.42      |
| 2      | 0.58       |          | -0.45     | -0.53     | 1.42          |          | -0.71        | 7.32      | 0.57      | 1.06      |
| 3      | 0.35       | 0.30     |           | -0.29     | 1.06          | 0.74     | -0.27        | 7.61      |           | 0.67      |
| 3      | 0.31       |          | -0.28     | -0.33     | 0.67          |          | -0.41        | 6.85      | 0.46      | 0.77      |
| 4      | 0.31       | 0.26     |           | -0.33     | 0.77          | 0.48     | -0.28        | 6.74      |           | 0.93      |
| 4      | 0.39       |          |           | -0.26     | 0.93          |          | -0.71        | 8.45      |           | 0.00      |

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |       | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|-------|-------|------|-----------|-------|-------------|-------|
| Id  | Loc                 | Calc  | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC    | Calc        | Limit |
| --- | ----                | ----- | ----- | ---- | ----                   | ----- | ----- | ---- | -----     | ----- | -----       | ----- |

|   |      |       |      |      |      |      |      |      |      |      |       |
|---|------|-------|------|------|------|------|------|------|------|------|-------|
| 1 | RSup | -0.38 | 6.04 | 0.06 | RSup | 0.87 | 2.80 | 0.31 | RSup | 0.27 | -0.16 |
| 1 | LSup | 0.31  | 6.04 | 0.05 | LSup | 0.87 | 2.76 | 0.31 | LSup | 0.27 | 0.00  |
| 2 | RSup | -0.58 | 3.86 | 0.15 | RSup | 1.42 | 2.04 | 0.70 | RSup | 0.56 | -0.15 |
| 2 | LSup | 0.58  | 3.86 | 0.15 | LSup | 1.42 | 2.04 | 0.70 | LSup | 0.56 | -0.14 |
| 3 | LLap | 0.30  | 3.86 | 0.08 | LLap | 0.74 | 2.04 | 0.36 | LLap | 0.29 | -0.03 |
| 3 | LSup | 0.31  | 3.86 | 0.08 | LSup | 0.67 | 2.06 | 0.33 | LSup | 0.27 | -0.08 |
| 4 | RSup | -0.33 | 6.04 | 0.06 | RSup | 0.93 | 2.77 | 0.34 | RSup | 0.29 | -0.03 |
| 4 | LSup | 0.39  | 6.04 | 0.06 | LSup | 0.93 | 2.79 | 0.33 | LSup | 0.29 | -0.15 |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      |  | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|--|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup |  | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.3                | 1.0  | 1.0  | 1.0  | 2.7  |  | 1.00                | 1.00  | 1.00 | 1.00  | 0.00  | 1.14         | 1.00 | 1.00 | 1.00 | 1.76 |
| 2   | 14.0  | 4.0                 | 4.0  | 1.0  | 3.5  | 1.0  |  | 0.00                | 0.00  | 1.00 | 0.00  | 0.70  | 1.89         | 1.89 | 1.00 | 1.87 | 1.14 |
| 3   | 14.0  | 1.0                 | 1.6  | 1.0  | 1.0  | 3.2  |  | 0.53                | -0.13 | 1.00 | 1.00  | -0.03 | 1.24         | 1.94 | 1.00 | 1.00 | 1.85 |
| 4   | 14.0  | 3.2                 | 1.0  | 1.0  | 1.7  | 1.0  |  | -0.03               | 1.00  | 1.00 | -0.13 | 0.54  | 1.85         | 1.00 | 1.00 | 1.95 | 1.24 |
| 5   | 14.0  | 1.0                 | 3.2  | 1.0  | 1.0  | 3.0  |  | 0.69                | 0.00  | 1.00 | 1.00  | 0.00  | 1.14         | 1.83 | 1.00 | 1.00 | 1.82 |
| 6   | 14.0  | 2.6                 | 1.0  | 1.0  | 1.9  | 1.0  |  | 0.00                | 1.00  | 1.00 | 0.00  | 0.60  | 1.79         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7   | 14.0  | 1.0                 | 2.3  | 1.0  | 3.8  | 3.8  |  | 0.63                | 0.00  | 1.00 | 0.00  | 0.00  | 1.18         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 |  | 0.00                | 1.00  | 1.00 | 1.00  | 1.00  | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 13 : Dead+Collateral+Snow/2+PAT\_SL\_6

REACTIONS:

| Bay | -----Shear(k )----- |      |       |       | -----Moment(f-k )----- |      |          |       |       |      |
|-----|---------------------|------|-------|-------|------------------------|------|----------|-------|-------|------|
|     | Left                | Left | Right | Right | Left                   | Left | Mid-Span | Right | Right |      |
| Id  | Sup                 | Lap  | Lap   | Sup   | Sup                    | Lap  | Mom      | Loc   | Lap   | Sup  |
| 1   | 0.25                |      |       | -0.39 | 0.00                   |      | -0.70    | 5.51  |       | 0.96 |
| 1   | 0.34                |      | -0.26 | -0.30 | 0.96                   |      | -0.32    | 7.45  | 0.39  | 0.67 |
| 2   | 0.30                | 0.25 |       | -0.34 | 0.67                   | 0.39 | -0.30    | 6.50  |       | 0.99 |
| 2   | 0.52                |      | -0.52 | -0.60 | 0.99                   |      | -0.70    | 6.52  | 0.97  | 1.53 |
| 3   | 0.60                | 0.52 |       | -0.52 | 1.53                   | 0.97 | -0.70    | 7.48  |       | 0.99 |
| 3   | 0.34                |      | -0.25 | -0.30 | 0.99                   |      | -0.30    | 7.50  | 0.39  | 0.67 |
| 4   | 0.30                | 0.26 |       | -0.34 | 0.67                   | 0.39 | -0.32    | 6.55  |       | 0.96 |
| 4   | 0.39                |      |       | -0.25 | 0.96                   |      | -0.70    | 8.49  |       | 0.00 |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|     | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup                | -0.39 | 6.04  | 0.06 | RSup                   | 0.96 | 2.79  | 0.34 | RSup      | 0.30 | -0.14       |       |
| 1   | LSup                | 0.34  | 6.04  | 0.06 | LSup                   | 0.96 | 2.77  | 0.35 | LSup      | 0.29 | -0.04       |       |
| 2   | RSup                | -0.34 | 3.86  | 0.09 | RSup                   | 0.99 | 2.03  | 0.49 | RSup      | 0.39 | -0.04       |       |
| 2   | LSup                | 0.52  | 3.86  | 0.13 | LSup                   | 0.99 | 2.07  | 0.48 | LSup      | 0.40 | -0.14       |       |
| 3   | RSup                | -0.52 | 3.86  | 0.13 | RSup                   | 0.99 | 2.07  | 0.48 | RSup      | 0.40 | -0.14       |       |
| 3   | LSup                | 0.34  | 3.86  | 0.09 | LSup                   | 0.99 | 2.03  | 0.49 | LSup      | 0.39 | -0.04       |       |
| 4   | RSup                | -0.34 | 6.04  | 0.06 | RSup                   | 0.96 | 2.77  | 0.35 | RSup      | 0.29 | -0.04       |       |
| 4   | LSup                | 0.39  | 6.04  | 0.06 | LSup                   | 0.96 | 2.79  | 0.34 | LSup      | 0.30 | -0.14       |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      |  | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|--|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup |  | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.0                | 1.0  | 1.0  | 1.0  | 3.0  |  | 1.00                | 1.00  | 1.00 | 1.00  | 0.00  | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2   | 14.0  | 3.7                 | 3.7  | 1.0  | 1.8  | 1.0  |  | 0.00                | 0.00  | 1.00 | 0.00  | 0.58  | 1.84         | 1.84 | 1.00 | 1.77 | 1.21 |
| 3   | 14.0  | 1.0                 | 1.9  | 1.0  | 3.9  | 3.9  |  | 0.59                | 0.00  | 1.00 | 0.00  | 0.00  | 1.21         | 1.77 | 1.00 | 1.85 | 1.85 |
| 4   | 14.0  | 2.6                 | 1.0  | 1.0  | 2.4  | 1.0  |  | -0.09               | 1.00  | 1.00 | -0.04 | 0.64  | 1.94         | 1.00 | 1.00 | 1.83 | 1.18 |
| 5   | 14.0  | 1.0                 | 2.4  | 1.0  | 1.0  | 2.6  |  | 0.64                | -0.04 | 1.00 | 1.00  | -0.09 | 1.18         | 1.83 | 1.00 | 1.00 | 1.94 |
| 6   | 14.0  | 3.9                 | 3.9  | 1.0  | 1.9  | 1.0  |  | 0.00                | 0.00  | 1.00 | 0.00  | 0.59  | 1.85         | 1.85 | 1.00 | 1.77 | 1.21 |
| 7   | 14.0  | 1.0                 | 1.8  | 1.0  | 3.7  | 3.7  |  | 0.58                | 0.00  | 1.00 | 0.00  | 0.00  | 1.21         | 1.77 | 1.00 | 1.84 | 1.84 |
| 8   | 14.0  | 3.0                 | 1.0  | 1.0  | 1.0  | 11.0 |  | 0.00                | 1.00  | 1.00 | 1.00  | 1.00  | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 14 : Dead+Collateral+Snow/2+PAT\_SL\_7

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |      |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Loc  | Right Lap | Right Sup |
| 1      | 0.26                |          |           | -0.39     | 0.00                   |          | -0.71        | 5.55 |           | 0.93      |
| 1      | 0.33                |          | -0.26     | -0.31     | 0.93                   |          | -0.28        | 7.26 | 0.48      | 0.77      |
| 2      | 0.33                | 0.28     |           | -0.31     | 0.77                   | 0.46     | -0.41        | 7.15 |           | 0.67      |
| 2      | 0.29                |          | -0.30     | -0.35     | 0.67                   |          | -0.27        | 6.39 | 0.74      | 1.06      |
| 3      | 0.53                | 0.45     |           | -0.58     | 1.06                   | 0.57     | -0.71        | 6.68 |           | 1.42      |
| 3      | 0.58                |          | -0.45     | -0.53     | 1.42                   |          | -0.72        | 7.35 | 0.55      | 1.04      |
| 4      | 0.33                | 0.29     |           | -0.31     | 1.04                   | 0.73     | -0.18        | 7.26 |           | 0.87      |
| 4      | 0.38                |          |           | -0.26     | 0.87                   |          | -0.73        | 8.35 |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup                | -0.39 | 6.04  | 0.06 | RSup                   | 0.93 | 2.79  | 0.33 | RSup      | 0.29 | -0.15       |       |
| 1      | LSup                | 0.33  | 6.04  | 0.06 | LSup                   | 0.93 | 2.77  | 0.34 | LSup      | 0.29 | -0.03       |       |
| 2      | RSup                | -0.31 | 3.86  | 0.08 | RSup                   | 0.67 | 2.06  | 0.33 | RSup      | 0.27 | -0.08       |       |
| 2      | RLap                | -0.30 | 3.86  | 0.08 | RLap                   | 0.74 | 2.04  | 0.36 | RLap      | 0.29 | -0.03       |       |
| 3      | RSup                | -0.58 | 3.86  | 0.15 | RSup                   | 1.42 | 2.04  | 0.70 | RSup      | 0.56 | -0.14       |       |
| 3      | LSup                | 0.58  | 3.86  | 0.15 | LSup                   | 1.42 | 2.04  | 0.70 | LSup      | 0.56 | -0.15       |       |
| 4      | RSup                | -0.31 | 6.04  | 0.05 | RSup                   | 0.87 | 2.76  | 0.31 | RSup      | 0.27 | 0.00        |       |
| 4      | LSup                | 0.38  | 6.04  | 0.06 | LSup                   | 0.87 | 2.80  | 0.31 | LSup      | 0.27 | -0.16       |       |

UNBRACED LENGTH:

| Bay Id | Major (ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|--------|------------|---------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|        |            | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1      | 14.0       | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00  | 1.00 | 1.00  | 0.00  | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2      | 14.0       | 3.8                 | 3.8  | 1.0  | 2.3  | 1.0  | 0.00                | 0.00  | 1.00 | 0.00  | 0.63  | 1.85         | 1.85 | 1.00 | 1.79 | 1.18 |
| 3      | 14.0       | 1.0                 | 1.9  | 1.0  | 1.0  | 2.6  | 0.60                | 0.00  | 1.00 | 1.00  | 0.00  | 1.20         | 1.76 | 1.00 | 1.00 | 1.79 |
| 4      | 14.0       | 3.0                 | 1.0  | 1.0  | 3.2  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00  | 0.69  | 1.82         | 1.00 | 1.00 | 1.83 | 1.14 |
| 5      | 14.0       | 1.0                 | 1.7  | 1.0  | 1.0  | 3.2  | 0.54                | -0.13 | 1.00 | 1.00  | -0.03 | 1.24         | 1.95 | 1.00 | 1.00 | 1.85 |
| 6      | 14.0       | 3.2                 | 1.0  | 1.0  | 1.6  | 1.0  | -0.03               | 1.00  | 1.00 | -0.13 | 0.53  | 1.85         | 1.00 | 1.00 | 1.94 | 1.24 |
| 7      | 14.0       | 1.0                 | 3.5  | 1.0  | 4.0  | 4.0  | 0.70                | 0.00  | 1.00 | 0.00  | 0.00  | 1.14         | 1.87 | 1.00 | 1.89 | 1.89 |
| 8      | 14.0       | 2.7                 | 1.0  | 1.0  | 1.0  | 11.3 | 0.00                | 1.00  | 1.00 | 1.00  | 1.00  | 1.76         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 15 : Dead+Collateral+Snow/2+PAT\_SL\_8

REACTIONS:

| Bay Id | -----Shear(k )----- |          |           |           | -----Moment(f-k )----- |          |              |      |           |           |
|--------|---------------------|----------|-----------|-----------|------------------------|----------|--------------|------|-----------|-----------|
|        | Left Sup            | Left Lap | Right Lap | Right Sup | Left Sup               | Left Lap | Mid-Span Mom | Loc  | Right Lap | Right Sup |
| 1      | 0.25                |          |           | -0.39     | 0.00                   |          | -0.70        | 5.54 |           | 0.94      |
| 1      | 0.34                |          | -0.26     | -0.31     | 0.94                   |          | -0.29        | 7.31 | 0.46      | 0.74      |
| 2      | 0.32                | 0.27     |           | -0.32     | 0.74                   | 0.44     | -0.38        | 6.97 |           | 0.76      |
| 2      | 0.32                |          | -0.27     | -0.32     | 0.76                   |          | -0.38        | 7.06 | 0.43      | 0.72      |
| 3      | 0.30                | 0.26     |           | -0.34     | 0.72                   | 0.44     | -0.28        | 6.59 |           | 0.99      |
| 3      | 0.52                |          | -0.51     | -0.59     | 0.99                   |          | -0.72        | 6.55 | 0.93      | 1.49      |
| 4      | 0.58                | 0.50     |           | -0.53     | 1.49                   | 0.95     | -0.63        | 7.29 |           | 1.17      |
| 4      | 0.41                |          |           | -0.24     | 1.17                   |          | -0.62        | 8.81 |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|--------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|        | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1      | RSup                | -0.39 | 6.04  | 0.06 | RSup                   | 0.94 | 2.79  | 0.34 | RSup      | 0.29 | -0.15       |       |

|   |      |       |      |      |      |      |      |      |      |      |       |
|---|------|-------|------|------|------|------|------|------|------|------|-------|
| 1 | LSup | 0.34  | 6.04 | 0.06 | LSup | 0.94 | 2.77 | 0.34 | LSup | 0.29 | -0.03 |
| 2 | RSup | -0.32 | 3.86 | 0.08 | RSup | 0.76 | 2.05 | 0.37 | RSup | 0.30 | -0.07 |
| 2 | LSup | 0.32  | 3.86 | 0.08 | LSup | 0.76 | 2.05 | 0.37 | LSup | 0.30 | -0.07 |
| 3 | RSup | -0.34 | 3.86 | 0.09 | RSup | 0.99 | 2.03 | 0.49 | RSup | 0.39 | -0.03 |
| 3 | LSup | 0.52  | 3.86 | 0.14 | LSup | 0.99 | 2.07 | 0.48 | LSup | 0.40 | -0.15 |
| 4 | RSup | -0.53 | 6.04 | 0.09 | RSup | 1.17 | 2.80 | 0.42 | RSup | 0.36 | -0.09 |
| 4 | LSup | 0.41  | 6.04 | 0.07 | LSup | 1.17 | 2.77 | 0.42 | LSup | 0.36 | -0.11 |

UNBRACED LENGTH:

| Bay<br>Id | Major<br>(ft) | -----Minor (ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |       |       | -----Cb----- |      |      |      |      |
|-----------|---------------|----------------------|------|------|------|------|---------------------|-------|------|-------|-------|--------------|------|------|------|------|
|           |               | LSup                 | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1         | 14.0          | 11.1                 | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00  | 1.00 | 1.00  | 0.00  | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2         | 14.0          | 3.8                  | 3.8  | 1.0  | 2.1  | 1.0  | 0.00                | 0.00  | 1.00 | 0.00  | 0.62  | 1.85         | 1.85 | 1.00 | 1.78 | 1.19 |
| 3         | 14.0          | 1.0                  | 1.9  | 1.0  | 1.0  | 3.0  | 0.60                | 0.00  | 1.00 | 1.00  | 0.00  | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4         | 14.0          | 3.0                  | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00  | 0.59  | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 5         | 14.0          | 1.0                  | 2.1  | 1.0  | 4.0  | 4.0  | 0.61                | 0.00  | 1.00 | 0.00  | 0.00  | 1.19         | 1.79 | 1.00 | 1.86 | 1.86 |
| 6         | 14.0          | 2.6                  | 1.0  | 1.0  | 2.3  | 1.0  | -0.10               | 1.00  | 1.00 | -0.03 | 0.63  | 1.94         | 1.00 | 1.00 | 1.82 | 1.18 |
| 7         | 14.0          | 1.0                  | 2.4  | 1.0  | 1.0  | 3.0  | 0.64                | -0.04 | 1.00 | 1.00  | -0.05 | 1.18         | 1.84 | 1.00 | 1.00 | 1.90 |
| 8         | 14.0          | 3.6                  | 3.6  | 1.0  | 1.0  | 10.4 | 0.00                | 0.00  | 1.00 | 1.00  | 1.00  | 1.80         | 1.80 | 1.00 | 1.00 | 1.14 |

LOAD ID 16 : Dead+Collateral+Snow/2+PAT\_SL\_9

REACTIONS:

| Bay Id | -----Shear (k )----- |          |           |           | -----Moment (f-k )----- |          |              |          |           |           |
|--------|----------------------|----------|-----------|-----------|-------------------------|----------|--------------|----------|-----------|-----------|
|        | Left Sup             | Left Lap | Right Lap | Right Sup | Left Sup                | Left Lap | Mid-Span Mom | Span Loc | Right Lap | Right Sup |
| 1      | 0.25                 |          |           | -0.39     | 0.00                    |          | -0.71        | 5.54     |           | 0.94      |
| 1      | 0.34                 |          | -0.26     | -0.31     | 0.94                    |          | -0.28        | 7.30     | 0.46      | 0.75      |
| 2      | 0.32                 | 0.28     |           | -0.32     | 0.75                    | 0.45     | -0.38        | 7.01     |           | 0.74      |
| 2      | 0.32                 |          | -0.28     | -0.33     | 0.74                    |          | -0.35        | 6.89     | 0.51      | 0.81      |
| 3      | 0.33                 | 0.28     |           | -0.31     | 0.81                    | 0.50     | -0.38        | 7.20     |           | 0.68      |
| 3      | 0.30                 |          | -0.30     | -0.34     | 0.68                    |          | -0.30        | 6.55     | 0.65      | 0.97      |
| 4      | 0.50                 | 0.42     |           | -0.61     | 0.97                    | 0.51     | -0.63        | 6.34     |           | 1.71      |
| 4      | 0.68                 |          |           | -0.43     | 1.71                    |          | -1.19        | 8.53     |           | 0.00      |

STRENGTH/DEFLECTION:

| Bay Id | -----Shear (k )----- |       |       |      | -----Moment (f-k )----- |      |       |      | Mom+Shear |      | Deflect (in) |       |
|--------|----------------------|-------|-------|------|-------------------------|------|-------|------|-----------|------|--------------|-------|
|        | Loc                  | Calc  | Limit | UC   | Loc                     | Calc | Limit | UC   | Loc       | UC   | Calc         | Limit |
| 1      | RSup                 | -0.39 | 6.04  | 0.06 | RSup                    | 0.94 | 2.79  | 0.34 | RSup      | 0.29 | -0.15        |       |
| 1      | LSup                 | 0.34  | 6.04  | 0.06 | LSup                    | 0.94 | 2.77  | 0.34 | LSup      | 0.29 | -0.03        |       |
| 2      | RSup                 | -0.32 | 3.86  | 0.08 | RSup                    | 0.74 | 2.05  | 0.36 | RSup      | 0.29 | -0.07        |       |
| 2      | LSup                 | 0.32  | 3.86  | 0.08 | LSup                    | 0.74 | 2.05  | 0.36 | LSup      | 0.29 | -0.06        |       |
| 3      | RSup                 | -0.31 | 3.86  | 0.08 | RSup                    | 0.68 | 2.05  | 0.33 | RSup      | 0.27 | -0.07        |       |
| 3      | LSup                 | 0.30  | 3.86  | 0.08 | LSup                    | 0.68 | 2.05  | 0.33 | LSup      | 0.27 | -0.04        |       |
| 4      | RSup                 | -0.61 | 6.04  | 0.10 | RSup                    | 1.71 | 2.77  | 0.62 | RSup      | 0.52 | -0.09        |       |
| 4      | LSup                 | 0.68  | 6.04  | 0.11 | LSup                    | 1.71 | 2.79  | 0.61 | LSup      | 0.52 | -0.24        |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor (ft)----- |       |       |       |       | -----Mom1/Mom2----- |       |       |       |       | -----Cb----- |       |       |       |       |
|-----|-------|----------------------|-------|-------|-------|-------|---------------------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|
| Id  | (ft)  | LSup                 | LLap  | MidS  | RLap  | RSup  | LSup                | LLap  | MidS  | RLap  | RSup  | LSup         | LLap  | MidS  | RLap  | RSup  |
| --- | ----- | -----                | ----- | ----- | ----- | ----- | -----               | ----- | ----- | ----- | ----- | -----        | ----- | ----- | ----- | ----- |
| 1   | 14.0  | 11.1                 | 1.0   | 1.0   | 1.0   | 2.9   | 1.00                | 1.00  | 1.00  | 1.00  | 0.00  | 1.14         | 1.00  | 1.00  | 1.00  | 1.77  |
| 2   | 14.0  | 3.8                  | 3.8   | 1.0   | 2.2   | 1.0   | 0.00                | 0.00  | 1.00  | 0.00  | 0.62  | 1.85         | 1.85  | 1.00  | 1.79  | 1.19  |
| 3   | 14.0  | 1.0                  | 1.9   | 1.0   | 1.0   | 2.9   | 0.60                | 0.00  | 1.00  | 1.00  | 0.00  | 1.20         | 1.76  | 1.00  | 1.00  | 1.80  |
| 4   | 14.0  | 3.0                  | 1.0   | 1.0   | 2.2   | 1.0   | 0.00                | 1.00  | 1.00  | 0.00  | 0.62  | 1.81         | 1.00  | 1.00  | 1.78  | 1.18  |
| 5   | 14.0  | 1.0                  | 2.1   | 1.0   | 1.0   | 2.7   | 0.62                | 0.00  | 1.00  | 1.00  | 0.00  | 1.19         | 1.77  | 1.00  | 1.00  | 1.79  |
| 6   | 14.0  | 2.9                  | 1.0   | 1.0   | 2.8   | 1.0   | 0.00                | 1.00  | 1.00  | 0.00  | 0.67  | 1.81         | 1.00  | 1.00  | 1.81  | 1.16  |
| 7   | 14.0  | 1.0                  | 1.6   | 1.0   | 3.9   | 3.9   | 0.52                | -0.13 | 1.00  | -0.03 | -0.03 | 1.25         | 1.95  | 1.00  | 1.90  | 1.90  |
| 8   | 14.0  | 3.2                  | 1.0   | 1.0   | 1.0   | 10.8  | -0.02               | 1.00  | 1.00  | 1.00  | 1.00  | 1.82         | 1.00  | 1.00  | 1.00  | 1.13  |

LOAD ID 17 : Dead+Collateral+Snow/2+PAT\_SL\_1

REACTIONS:

| Bay<br>Id | -----Shear(k )----- |             |              |              | -----Moment(f-k )----- |             |                 |      |              |              |
|-----------|---------------------|-------------|--------------|--------------|------------------------|-------------|-----------------|------|--------------|--------------|
|           | Left<br>Sup         | Left<br>Lap | Right<br>Lap | Right<br>Sup | Left<br>Sup            | Left<br>Lap | Mid-Span<br>Mom | Loc  | Right<br>Lap | Right<br>Sup |
| 1         | 0.46                |             |              | -0.66        | 0.00                   |             | -1.32           | 5.76 |              | 1.38         |
| 1         | 0.38                |             | -0.22        | -0.27        | 1.38                   |             | -0.15           | 8.16 | 0.39         | 0.63         |
| 2         | 0.31                | 0.27        |              | -0.33        | 0.63                   | 0.34        | -0.43           | 6.78 |              | 0.77         |
| 2         | 0.32                |             | -0.28        | -0.32        | 0.77                   |             | -0.35           | 6.98 | 0.48         | 0.78         |
| 3         | 0.32                | 0.28        |              | -0.32        | 0.78                   | 0.48        | -0.36           | 7.06 |              | 0.75         |
| 3         | 0.32                |             | -0.28        | -0.32        | 0.75                   |             | -0.38           | 7.00 | 0.45         | 0.74         |
| 4         | 0.31                | 0.26        |              | -0.34        | 0.74                   | 0.46        | -0.29           | 6.70 |              | 0.94         |
| 4         | 0.39                |             |              | -0.25        | 0.94                   |             | -0.71           | 8.46 |              | 0.00         |

STRENGTH/DEFLECTION:

| Bay<br>Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |       |       |      | Mom+Shear |      | Deflect(in) |       |
|-----------|---------------------|-------|-------|------|------------------------|-------|-------|------|-----------|------|-------------|-------|
|           | Loc                 | Calc  | Limit | UC   | Loc                    | Calc  | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1         | RSup                | -0.66 | 6.04  | 0.11 | MidS                   | -1.32 | 2.63  | 0.50 | RSup      | 0.43 | -0.29       |       |
| 1         | LSup                | 0.38  | 6.04  | 0.06 | LSup                   | 1.38  | 2.73  | 0.50 | LSup      | 0.42 | 0.02        |       |
| 2         | RSup                | -0.33 | 3.86  | 0.09 | RSup                   | 0.77  | 2.05  | 0.38 | RSup      | 0.31 | -0.09       |       |
| 2         | LSup                | 0.32  | 3.86  | 0.08 | LSup                   | 0.77  | 2.04  | 0.38 | LSup      | 0.31 | -0.06       |       |
| 3         | RSup                | -0.32 | 3.86  | 0.08 | RSup                   | 0.75  | 2.05  | 0.36 | RSup      | 0.30 | -0.07       |       |
| 3         | LSup                | 0.32  | 3.86  | 0.08 | LSup                   | 0.75  | 2.05  | 0.36 | LSup      | 0.30 | -0.07       |       |
| 4         | RSup                | -0.34 | 6.04  | 0.06 | RSup                   | 0.94  | 2.77  | 0.34 | RSup      | 0.29 | -0.03       |       |
| 4         | LSup                | 0.39  | 6.04  | 0.06 | LSup                   | 0.94  | 2.79  | 0.34 | LSup      | 0.29 | -0.15       |       |

UNBRACED LENGTH:

| Bay<br>Id | Major<br>(ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |      |      |      |       | -----Cb----- |      |      |      |      |
|-----------|---------------|---------------------|------|------|------|------|---------------------|------|------|------|-------|--------------|------|------|------|------|
|           |               | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap | MidS | RLap | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1         | 14.0          | 11.3                | 1.0  | 1.0  | 1.0  | 2.7  | 1.00                | 1.00 | 1.00 | 1.00 | -0.06 | 1.13         | 1.00 | 1.00 | 1.00 | 1.85 |
| 2         | 14.0          | 5.6                 | 5.6  | 1.0  | 2.3  | 1.0  | 0.00                | 0.00 | 1.00 | 0.00 | 0.61  | 1.96         | 1.96 | 1.00 | 1.82 | 1.19 |
| 3         | 14.0          | 1.0                 | 1.5  | 1.0  | 1.0  | 2.9  | 0.54                | 0.00 | 1.00 | 1.00 | 0.00  | 1.23         | 1.74 | 1.00 | 1.00 | 1.80 |
| 4         | 14.0          | 3.1                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62  | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5         | 14.0          | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00  | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6         | 14.0          | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  | 0.00                | 1.00 | 1.00 | 0.00 | 0.60  | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7         | 14.0          | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  | 0.62                | 0.00 | 1.00 | 0.00 | 0.00  | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8         | 14.0          | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 | 0.00                | 1.00 | 1.00 | 1.00 | 1.00  | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 18 : Dead+Collateral+Snow/2+PAT\_SL\_2

REACTIONS:

| Bay<br>Id | -----Shear(k )----- |             |              |              | -----Moment(f-k )----- |             |                 |      |              |              |
|-----------|---------------------|-------------|--------------|--------------|------------------------|-------------|-----------------|------|--------------|--------------|
|           | Left<br>Sup         | Left<br>Lap | Right<br>Lap | Right<br>Sup | Left<br>Sup            | Left<br>Lap | Mid-Span<br>Mom | Loc  | Right<br>Lap | Right<br>Sup |
| 1         | 0.25                |             |              | -0.39        | 0.00                   |             | -0.71           | 5.54 |              | 0.94         |
| 1         | 0.34                |             | -0.26        | -0.31        | 0.94                   |             | -0.29           | 7.30 | 0.46         | 0.74         |
| 2         | 0.32                | 0.28        |              | -0.32        | 0.74                   | 0.45        | -0.38           | 7.00 |              | 0.75         |
| 2         | 0.32                |             | -0.28        | -0.32        | 0.75                   |             | -0.36           | 6.94 | 0.48         | 0.78         |
| 3         | 0.32                | 0.28        |              | -0.32        | 0.78                   | 0.48        | -0.35           | 7.02 |              | 0.77         |
| 3         | 0.33                |             | -0.27        | -0.31        | 0.77                   |             | -0.43           | 7.22 | 0.34         | 0.63         |
| 4         | 0.27                | 0.22        |              | -0.38        | 0.63                   | 0.39        | -0.15           | 5.84 |              | 1.38         |
| 4         | 0.66                |             |              | -0.46        | 1.38                   |             | -1.32           | 8.24 |              | 0.00         |

STRENGTH/DEFLECTION:

| Bay<br>Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|           | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1         | RSup                | -0.39 | 6.04  | 0.06 | RSup                   | 0.94 | 2.79  | 0.34 | RSup      | 0.29 | -0.15       |       |
| 1         | LSup                | 0.34  | 6.04  | 0.06 | LSup                   | 0.94 | 2.77  | 0.34 | LSup      | 0.29 | -0.03       |       |

|   |      |       |      |      |      |       |      |      |      |      |       |
|---|------|-------|------|------|------|-------|------|------|------|------|-------|
| 2 | RSup | -0.32 | 3.86 | 0.08 | RSup | 0.75  | 2.05 | 0.36 | RSup | 0.30 | -0.07 |
| 2 | LSup | 0.32  | 3.86 | 0.08 | LSup | 0.75  | 2.05 | 0.36 | LSup | 0.30 | -0.07 |
| 3 | RSup | -0.32 | 3.86 | 0.08 | RSup | 0.77  | 2.04 | 0.38 | RSup | 0.31 | -0.06 |
| 3 | LSup | 0.33  | 3.86 | 0.09 | LSup | 0.77  | 2.05 | 0.38 | LSup | 0.31 | -0.09 |
| 4 | RSup | -0.38 | 6.04 | 0.06 | RSup | 1.38  | 2.73 | 0.50 | RSup | 0.42 | 0.02  |
| 4 | LSup | 0.66  | 6.04 | 0.11 | MidS | -1.32 | 2.63 | 0.50 | LSup | 0.43 | -0.29 |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      |  | -----Mom1/Mom2----- |      |      |      |      | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|--|---------------------|------|------|------|------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup |  | LSup                | LLap | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  |  | 1.00                | 1.00 | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2   | 14.0  | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  |  | 0.00                | 0.00 | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3   | 14.0  | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  |  | 0.60                | 0.00 | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4   | 14.0  | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  |  | 0.00                | 1.00 | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.1  | 1.0  | 1.0  | 3.1  |  | 0.62                | 0.00 | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.5  | 1.0  |  | 0.00                | 1.00 | 1.00 | 0.00 | 0.54 | 1.80         | 1.00 | 1.00 | 1.74 | 1.23 |
| 7   | 14.0  | 1.0                 | 2.3  | 1.0  | 5.6  | 5.6  |  | 0.61                | 0.00 | 1.00 | 0.00 | 0.00 | 1.19         | 1.82 | 1.00 | 1.96 | 1.96 |
| 8   | 14.0  | 2.7                 | 1.0  | 1.0  | 1.0  | 11.3 |  | -0.06               | 1.00 | 1.00 | 1.00 | 1.00 | 1.85         | 1.00 | 1.00 | 1.00 | 1.13 |

LOAD ID 19 : Dead+Collateral+Snow-PAT\_SL\_1

REACTIONS:

| Bay | -----Shear(k )----- |      |       |       | -----Moment(f-k )----- |      |          |       |       |      |
|-----|---------------------|------|-------|-------|------------------------|------|----------|-------|-------|------|
|     | Left                | Left | Right | Right | Left                   | Left | Mid-Span | Right | Right |      |
| Id  | Sup                 | Lap  | Lap   | Sup   | Sup                    | Lap  | Mom      | Loc   | Lap   | Sup  |
| 1   | 0.24                |      |       | -0.41 | 0.00                   |      | -0.61    | 5.15  |       | 1.19 |
| 1   | 0.54                |      | -0.49 | -0.57 | 1.19                   |      | -0.65    | 6.80  | 0.87  | 1.40 |
| 2   | 0.57                | 0.49 |       | -0.55 | 1.40                   | 0.88 | -0.62    | 7.14  |       | 1.25 |
| 2   | 0.55                |      | -0.49 | -0.57 | 1.25                   |      | -0.63    | 6.89  | 0.85  | 1.38 |
| 3   | 0.56                | 0.48 |       | -0.55 | 1.38                   | 0.85 | -0.62    | 7.09  |       | 1.28 |
| 3   | 0.56                |      | -0.48 | -0.56 | 1.28                   |      | -0.66    | 6.99  | 0.77  | 1.29 |
| 4   | 0.53                | 0.45 |       | -0.58 | 1.29                   | 0.80 | -0.49    | 6.70  |       | 1.62 |
| 4   | 0.67                |      |       | -0.44 | 1.62                   |      | -1.22    | 8.46  |       | 0.00 |

STRENGTH/DEFLECTION:

| Bay | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|     | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1   | RSup                | -0.41 | 6.04  | 0.07 | RSup                   | 1.19 | 2.77  | 0.43 | RSup      | 0.36 | -0.11       |       |
| 1   | LSup                | 0.54  | 6.04  | 0.09 | LSup                   | 1.19 | 2.80  | 0.42 | LSup      | 0.37 | -0.10       |       |
| 2   | RSup                | -0.55 | 3.86  | 0.14 | RSup                   | 1.25 | 2.05  | 0.61 | RSup      | 0.50 | -0.11       |       |
| 2   | LSup                | 0.55  | 3.86  | 0.14 | LSup                   | 1.25 | 2.05  | 0.61 | LSup      | 0.50 | -0.12       |       |
| 3   | RSup                | -0.55 | 3.86  | 0.14 | RSup                   | 1.28 | 2.05  | 0.63 | RSup      | 0.51 | -0.11       |       |
| 3   | LSup                | 0.56  | 3.86  | 0.14 | LSup                   | 1.28 | 2.05  | 0.63 | LSup      | 0.51 | -0.13       |       |
| 4   | RSup                | -0.58 | 6.04  | 0.10 | RSup                   | 1.62 | 2.77  | 0.59 | RSup      | 0.50 | -0.05       |       |
| 4   | LSup                | 0.67  | 6.04  | 0.11 | LSup                   | 1.62 | 2.79  | 0.58 | LSup      | 0.50 | -0.26       |       |

UNBRACED LENGTH:

| Bay | Major | -----Minor(ft)----- |      |      |      |      |  | -----Mom1/Mom2----- |      |      |       |       | -----Cb----- |      |      |      |      |
|-----|-------|---------------------|------|------|------|------|--|---------------------|------|------|-------|-------|--------------|------|------|------|------|
| Id  | (ft)  | LSup                | LLap | MidS | RLap | RSup |  | LSup                | LLap | MidS | RLap  | RSup  | LSup         | LLap | MidS | RLap | RSup |
| 1   | 14.0  | 10.1                | 1.0  | 1.0  | 3.9  | 3.9  |  | 1.00                | 1.00 | 1.00 | -0.04 | -0.04 | 1.13         | 1.00 | 1.00 | 1.87 | 1.87 |
| 2   | 14.0  | 2.7                 | 1.0  | 1.0  | 2.1  | 1.0  |  | 0.00                | 1.00 | 1.00 | 0.00  | 0.62  | 1.80         | 1.00 | 1.00 | 1.77 | 1.19 |
| 3   | 14.0  | 1.0                 | 2.2  | 1.0  | 1.0  | 2.9  |  | 0.62                | 0.00 | 1.00 | 1.00  | 0.00  | 1.18         | 1.78 | 1.00 | 1.00 | 1.80 |
| 4   | 14.0  | 2.9                 | 1.0  | 1.0  | 2.1  | 1.0  |  | 0.00                | 1.00 | 1.00 | 0.00  | 0.62  | 1.80         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5   | 14.0  | 1.0                 | 2.1  | 1.0  | 1.0  | 3.0  |  | 0.62                | 0.00 | 1.00 | 1.00  | 0.00  | 1.19         | 1.77 | 1.00 | 1.00 | 1.81 |
| 6   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.9  | 1.0  |  | 0.00                | 1.00 | 1.00 | 0.00  | 0.60  | 1.80         | 1.00 | 1.00 | 1.76 | 1.20 |
| 7   | 14.0  | 1.0                 | 2.2  | 1.0  | 3.8  | 3.8  |  | 0.62                | 0.00 | 1.00 | 0.00  | 0.00  | 1.19         | 1.79 | 1.00 | 1.85 | 1.85 |
| 8   | 14.0  | 2.9                 | 1.0  | 1.0  | 1.0  | 11.1 |  | 0.00                | 1.00 | 1.00 | 1.00  | 1.00  | 1.77         | 1.00 | 1.00 | 1.00 | 1.14 |

LOAD ID 20 : Dead+Collateral+Snow-PAT\_SL\_2

REACTIONS:

| Bay<br>Id | -----Shear(k )----- |             |              |              | -----Moment(f-k )----- |             |                 |      |              |              |
|-----------|---------------------|-------------|--------------|--------------|------------------------|-------------|-----------------|------|--------------|--------------|
|           | Left<br>Sup         | Left<br>Lap | Right<br>Lap | Right<br>Sup | Left<br>Sup            | Left<br>Lap | Mid-Span<br>Mom | Loc  | Right<br>Lap | Right<br>Sup |
| 1         | 0.44                |             |              | -0.67        | 0.00                   |             | -1.22           | 5.54 |              | 1.62         |
| 1         | 0.58                |             | -0.45        | -0.53        | 1.62                   |             | -0.49           | 7.30 | 0.80         | 1.29         |
| 2         | 0.56                | 0.48        |              | -0.56        | 1.29                   | 0.77        | -0.66           | 7.01 |              | 1.28         |
| 2         | 0.55                |             | -0.48        | -0.56        | 1.28                   |             | -0.62           | 6.91 | 0.85         | 1.38         |
| 3         | 0.57                | 0.49        |              | -0.55        | 1.38                   | 0.85        | -0.63           | 7.11 |              | 1.25         |
| 3         | 0.55                |             | -0.49        | -0.57        | 1.25                   |             | -0.62           | 6.86 | 0.88         | 1.40         |
| 4         | 0.57                | 0.49        |              | -0.54        | 1.40                   | 0.87        | -0.65           | 7.20 |              | 1.19         |
| 4         | 0.41                |             |              | -0.24        | 1.19                   |             | -0.61           | 8.85 |              | 0.00         |

STRENGTH/DEFLECTION:

| Bay<br>Id | -----Shear(k )----- |       |       |      | -----Moment(f-k )----- |      |       |      | Mom+Shear |      | Deflect(in) |       |
|-----------|---------------------|-------|-------|------|------------------------|------|-------|------|-----------|------|-------------|-------|
|           | Loc                 | Calc  | Limit | UC   | Loc                    | Calc | Limit | UC   | Loc       | UC   | Calc        | Limit |
| 1         | RSup                | -0.67 | 6.04  | 0.11 | RSup                   | 1.62 | 2.79  | 0.58 | RSup      | 0.50 | -0.26       |       |
| 1         | LSup                | 0.58  | 6.04  | 0.10 | LSup                   | 1.62 | 2.77  | 0.59 | LSup      | 0.50 | -0.05       |       |
| 2         | RSup                | -0.56 | 3.86  | 0.14 | RSup                   | 1.28 | 2.05  | 0.63 | RSup      | 0.51 | -0.13       |       |
| 2         | LSup                | 0.55  | 3.86  | 0.14 | LSup                   | 1.28 | 2.05  | 0.63 | LSup      | 0.51 | -0.11       |       |
| 3         | RSup                | -0.55 | 3.86  | 0.14 | RSup                   | 1.25 | 2.05  | 0.61 | RSup      | 0.50 | -0.12       |       |
| 3         | LSup                | 0.55  | 3.86  | 0.14 | LSup                   | 1.25 | 2.05  | 0.61 | LSup      | 0.50 | -0.11       |       |
| 4         | RSup                | -0.54 | 6.04  | 0.09 | RSup                   | 1.19 | 2.80  | 0.42 | RSup      | 0.37 | -0.10       |       |
| 4         | LSup                | 0.41  | 6.04  | 0.07 | LSup                   | 1.19 | 2.77  | 0.43 | LSup      | 0.36 | -0.11       |       |

UNBRACED LENGTH:

| Bay<br>Id | Major<br>(ft) | -----Minor(ft)----- |      |      |      |      | -----Mom1/Mom2----- |       |      |      |      | -----Cb----- |      |      |      |      |
|-----------|---------------|---------------------|------|------|------|------|---------------------|-------|------|------|------|--------------|------|------|------|------|
|           |               | LSup                | LLap | MidS | RLap | RSup | LSup                | LLap  | MidS | RLap | RSup | LSup         | LLap | MidS | RLap | RSup |
| 1         | 14.0          | 11.1                | 1.0  | 1.0  | 1.0  | 2.9  | 1.00                | 1.00  | 1.00 | 1.00 | 0.00 | 1.14         | 1.00 | 1.00 | 1.00 | 1.77 |
| 2         | 14.0          | 3.8                 | 3.8  | 1.0  | 2.2  | 1.0  | 0.00                | 0.00  | 1.00 | 0.00 | 0.62 | 1.85         | 1.85 | 1.00 | 1.79 | 1.19 |
| 3         | 14.0          | 1.0                 | 1.9  | 1.0  | 1.0  | 2.9  | 0.60                | 0.00  | 1.00 | 1.00 | 0.00 | 1.20         | 1.76 | 1.00 | 1.00 | 1.80 |
| 4         | 14.0          | 3.0                 | 1.0  | 1.0  | 2.1  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00 | 0.62 | 1.81         | 1.00 | 1.00 | 1.77 | 1.19 |
| 5         | 14.0          | 1.0                 | 2.1  | 1.0  | 1.0  | 2.9  | 0.62                | 0.00  | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.80 |
| 6         | 14.0          | 2.9                 | 1.0  | 1.0  | 2.2  | 1.0  | 0.00                | 1.00  | 1.00 | 0.00 | 0.62 | 1.80         | 1.00 | 1.00 | 1.78 | 1.18 |
| 7         | 14.0          | 1.0                 | 2.1  | 1.0  | 1.0  | 2.7  | 0.62                | 0.00  | 1.00 | 1.00 | 0.00 | 1.19         | 1.77 | 1.00 | 1.00 | 1.80 |
| 8         | 14.0          | 3.9                 | 3.9  | 1.0  | 1.0  | 10.1 | -0.04               | -0.04 | 1.00 | 1.00 | 1.00 | 1.87         | 1.87 | 1.00 | 1.00 | 1.13 |

DEFLECTION:

LOAD ID 21 : Dead+Collateral+Live

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| 1         | -0.36          | 1.87  | 0.19  |
| 1         | -0.07          | 1.87  | 0.04  |
| 2         | -0.18          | 1.87  | 0.10  |
| 2         | -0.16          | 1.87  | 0.08  |
| 3         | -0.16          | 1.87  | 0.08  |
| 3         | -0.18          | 1.87  | 0.10  |
| 4         | -0.07          | 1.87  | 0.04  |
| 4         | -0.36          | 1.87  | 0.19  |

LOAD ID 22 : Dead+Collateral+Snow

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| 1         | -0.26          | 1.87  | 0.14  |
| 1         | -0.05          | 1.87  | 0.03  |

|   |       |      |      |
|---|-------|------|------|
| 2 | -0.13 | 1.87 | 0.07 |
| 2 | -0.11 | 1.87 | 0.06 |
| 3 | -0.11 | 1.87 | 0.06 |
| 3 | -0.13 | 1.87 | 0.07 |
| 4 | -0.05 | 1.87 | 0.03 |
| 4 | -0.26 | 1.87 | 0.14 |

LOAD ID 23 : Dead+Collateral+Snow+Snow\_Drift

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.26          | 1.87  | 0.14  |
| 1      | -0.05          | 1.87  | 0.03  |
| 2      | -0.13          | 1.87  | 0.07  |
| 2      | -0.11          | 1.87  | 0.06  |
| 3      | -0.11          | 1.87  | 0.06  |
| 3      | -0.13          | 1.87  | 0.07  |
| 4      | -0.05          | 1.87  | 0.03  |
| 4      | -0.26          | 1.87  | 0.14  |

LOAD ID 24 : Dead+Collateral+0.75Live+0.41Wind\_Pressure

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.38          | 2.24  | 0.17  |
| 1      | -0.08          | 2.24  | 0.04  |
| 2      | -0.19          | 2.24  | 0.09  |
| 2      | -0.17          | 2.24  | 0.08  |
| 3      | -0.17          | 2.24  | 0.08  |
| 3      | -0.19          | 2.24  | 0.09  |
| 4      | -0.08          | 2.24  | 0.04  |
| 4      | -0.38          | 2.24  | 0.17  |

LOAD ID 25 : Dead+Collateral+0.75Snow+0.41Wind\_Pressure

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.31          | 2.24  | 0.14  |
| 1      | -0.06          | 2.24  | 0.03  |
| 2      | -0.15          | 2.24  | 0.07  |
| 2      | -0.13          | 2.24  | 0.06  |
| 3      | -0.13          | 2.24  | 0.06  |
| 3      | -0.15          | 2.24  | 0.07  |
| 4      | -0.06          | 2.24  | 0.03  |
| 4      | -0.31          | 2.24  | 0.14  |

LOAD ID 26 : Dead+Collateral+0.75Snow+0.41Wind\_Pressure+0.75Snow\_Drift

| Bay Id | DEFLECTION(in) |       | Ratio |
|--------|----------------|-------|-------|
|        | Calc           | Limit |       |
| 1      | -0.31          | 2.24  | 0.14  |
| 1      | -0.06          | 2.24  | 0.03  |
| 2      | -0.15          | 2.24  | 0.07  |
| 2      | -0.13          | 2.24  | 0.06  |
| 3      | -0.13          | 2.24  | 0.06  |
| 3      | -0.15          | 2.24  | 0.07  |
| 4      | -0.06          | 2.24  | 0.03  |
| 4      | -0.31          | 2.24  | 0.14  |

LOAD ID 27 : 0.6Dead+0.54Wind\_Suction

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| ---       |                |       |       |
| 1         | 0.29           | 2.24  | 0.13  |
| 1         | -0.01          | 2.24  | 0.01  |
| 2         | 0.08           | 2.24  | 0.04  |
| 2         | 0.06           | 2.24  | 0.03  |
| 3         | 0.06           | 2.24  | 0.03  |
| 3         | 0.08           | 2.24  | 0.04  |
| 4         | -0.01          | 2.24  | 0.01  |
| 4         | 0.29           | 2.24  | 0.13  |

LOAD ID 28 : Dead+Collateral+MIN\_SNOW

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| -----     |                |       |       |
| 1         | -0.30          | 1.87  | 0.16  |
| 1         | -0.06          | 1.87  | 0.03  |
| 2         | -0.15          | 1.87  | 0.08  |
| 2         | -0.13          | 1.87  | 0.07  |
| 3         | -0.13          | 1.87  | 0.07  |
| 3         | -0.15          | 1.87  | 0.08  |
| 4         | -0.06          | 1.87  | 0.03  |
| 4         | -0.30          | 1.87  | 0.16  |

LOAD ID 29 : Dead+Collateral+0.41Wind\_Pressure+0.75MIN\_SNOW

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| -----     |                |       |       |
| 1         | -0.34          | 2.24  | 0.15  |
| 1         | -0.07          | 2.24  | 0.03  |
| 2         | -0.17          | 2.24  | 0.08  |
| 2         | -0.15          | 2.24  | 0.07  |
| 3         | -0.15          | 2.24  | 0.07  |
| 3         | -0.17          | 2.24  | 0.08  |
| 4         | -0.07          | 2.24  | 0.03  |
| 4         | -0.34          | 2.24  | 0.15  |

LOAD ID 30 : Dead+Collateral+Snow/2+PAT\_SL\_3

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| -----     |                |       |       |
| 1         | -0.24          | 1.87  | 0.13  |
| 1         | -0.09          | 1.87  | 0.05  |
| 2         | -0.04          | 1.87  | 0.02  |
| 2         | -0.07          | 1.87  | 0.04  |
| 3         | -0.06          | 1.87  | 0.03  |
| 3         | -0.07          | 1.87  | 0.04  |
| 4         | -0.03          | 1.87  | 0.02  |
| 4         | -0.15          | 1.87  | 0.08  |

LOAD ID 31 : Dead+Collateral+Snow/2+PAT\_SL\_4

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| -----     |                |       |       |
| 1         | -0.11          | 1.87  | 0.06  |
| 1         | -0.09          | 1.87  | 0.05  |
| 2         | -0.15          | 1.87  | 0.08  |
| 2         | -0.03          | 1.87  | 0.02  |
| 3         | -0.07          | 1.87  | 0.04  |
| 3         | -0.07          | 1.87  | 0.04  |

|   |       |      |      |
|---|-------|------|------|
| 4 | -0.03 | 1.87 | 0.02 |
| 4 | -0.15 | 1.87 | 0.08 |

LOAD ID 32 : Dead+Collateral+Snow/2+PAT\_SL\_5

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| ---       | -----          | ----- | ----- |
| 1         | -0.16          | 1.87  | 0.09  |
| 1         | 0.00           | 1.87  | 0.00  |
| 2         | -0.15          | 1.87  | 0.08  |
| 2         | -0.14          | 1.87  | 0.08  |
| 3         | -0.03          | 1.87  | 0.01  |
| 3         | -0.08          | 1.87  | 0.04  |
| 4         | -0.03          | 1.87  | 0.01  |
| 4         | -0.15          | 1.87  | 0.08  |

LOAD ID 33 : Dead+Collateral+Snow/2+PAT\_SL\_6

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| ---       | -----          | ----- | ----- |
| 1         | -0.14          | 1.87  | 0.08  |
| 1         | -0.04          | 1.87  | 0.02  |
| 2         | -0.04          | 1.87  | 0.02  |
| 2         | -0.14          | 1.87  | 0.07  |
| 3         | -0.14          | 1.87  | 0.07  |
| 3         | -0.04          | 1.87  | 0.02  |
| 4         | -0.04          | 1.87  | 0.02  |
| 4         | -0.14          | 1.87  | 0.08  |

LOAD ID 34 : Dead+Collateral+Snow/2+PAT\_SL\_7

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| ---       | -----          | ----- | ----- |
| 1         | -0.15          | 1.87  | 0.08  |
| 1         | -0.03          | 1.87  | 0.01  |
| 2         | -0.08          | 1.87  | 0.04  |
| 2         | -0.03          | 1.87  | 0.01  |
| 3         | -0.14          | 1.87  | 0.08  |
| 3         | -0.15          | 1.87  | 0.08  |
| 4         | 0.00           | 1.87  | 0.00  |
| 4         | -0.16          | 1.87  | 0.09  |

LOAD ID 35 : Dead+Collateral+Snow/2+PAT\_SL\_8

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| ---       | -----          | ----- | ----- |
| 1         | -0.15          | 1.87  | 0.08  |
| 1         | -0.03          | 1.87  | 0.02  |
| 2         | -0.07          | 1.87  | 0.04  |
| 2         | -0.07          | 1.87  | 0.04  |
| 3         | -0.03          | 1.87  | 0.02  |
| 3         | -0.15          | 1.87  | 0.08  |
| 4         | -0.09          | 1.87  | 0.05  |
| 4         | -0.11          | 1.87  | 0.06  |

LOAD ID 36 : Dead+Collateral+Snow/2+PAT\_SL\_9

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| ---       | -----          | ----- | ----- |
| 1         | -0.15          | 1.87  | 0.08  |

|   |       |      |      |
|---|-------|------|------|
| 1 | -0.03 | 1.87 | 0.02 |
| 2 | -0.07 | 1.87 | 0.04 |
| 2 | -0.06 | 1.87 | 0.03 |
| 3 | -0.07 | 1.87 | 0.04 |
| 3 | -0.04 | 1.87 | 0.02 |
| 4 | -0.09 | 1.87 | 0.05 |
| 4 | -0.24 | 1.87 | 0.13 |

LOAD ID 37 : Dead+Collateral+Snow/2+PAT\_SL\_1

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| 1         | -0.29          | 1.87  | 0.16  |
| 1         | 0.02           | 1.87  | 0.01  |
| 2         | -0.09          | 1.87  | 0.05  |
| 2         | -0.06          | 1.87  | 0.03  |
| 3         | -0.07          | 1.87  | 0.04  |
| 3         | -0.07          | 1.87  | 0.04  |
| 4         | -0.03          | 1.87  | 0.02  |
| 4         | -0.15          | 1.87  | 0.08  |

LOAD ID 38 : Dead+Collateral+Snow/2+PAT\_SL\_2

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| 1         | -0.15          | 1.87  | 0.08  |
| 1         | -0.03          | 1.87  | 0.02  |
| 2         | -0.07          | 1.87  | 0.04  |
| 2         | -0.07          | 1.87  | 0.04  |
| 3         | -0.06          | 1.87  | 0.03  |
| 3         | -0.09          | 1.87  | 0.05  |
| 4         | 0.02           | 1.87  | 0.01  |
| 4         | -0.29          | 1.87  | 0.16  |

LOAD ID 39 : Dead+Collateral+Snow-PAT\_SL\_1

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| 1         | -0.11          | 1.87  | 0.06  |
| 1         | -0.10          | 1.87  | 0.06  |
| 2         | -0.11          | 1.87  | 0.06  |
| 2         | -0.12          | 1.87  | 0.06  |
| 3         | -0.11          | 1.87  | 0.06  |
| 3         | -0.13          | 1.87  | 0.07  |
| 4         | -0.05          | 1.87  | 0.03  |
| 4         | -0.26          | 1.87  | 0.14  |

LOAD ID 40 : Dead+Collateral+Snow-PAT\_SL\_2

| Bay<br>Id | DEFLECTION(in) |       |       |
|-----------|----------------|-------|-------|
|           | Calc           | Limit | Ratio |
| 1         | -0.26          | 1.87  | 0.14  |
| 1         | -0.05          | 1.87  | 0.03  |
| 2         | -0.13          | 1.87  | 0.07  |
| 2         | -0.11          | 1.87  | 0.06  |
| 3         | -0.12          | 1.87  | 0.06  |
| 3         | -0.11          | 1.87  | 0.06  |
| 4         | -0.10          | 1.87  | 0.06  |
| 4         | -0.11          | 1.87  | 0.06  |

LAP SCREW SHEAR:  
Screw Part =#1A  
Screw Quan =6

| Surf<br>Id | Bay<br>Id | -----Left_Lap(k )----- |      |       |      | -----Right_Lap(k )----- |      |       |      |
|------------|-----------|------------------------|------|-------|------|-------------------------|------|-------|------|
|            |           | Load                   | Calc | Limit | UC   | Load                    | Calc | Limit | UC   |
| 2          | 1         |                        |      |       |      | 4                       | 0.18 | 0.68  | 0.27 |
|            | 2         | 4                      | 0.15 | 0.68  | 0.22 | 4                       | 0.18 | 0.68  | 0.26 |
|            | 3         | 4                      | 0.18 | 0.68  | 0.26 | 4                       | 0.15 | 0.68  | 0.22 |
|            | 4         | 4                      | 0.18 | 0.68  | 0.27 |                         |      |       |      |

|   |                    |  |  |  |  |                 |
|---|--------------------|--|--|--|--|-----------------|
| T | Roof Panel Summary |  |  |  |  | 2/13/23 10:19am |
|---|--------------------|--|--|--|--|-----------------|

# PANEL LAYOUT:

| Surf<br>Id | Part  | Type | Gage  | Yield | Surface<br>Length | Rotation<br>Stiffness |
|------------|-------|------|-------|-------|-------------------|-----------------------|
| 2          | PBR26 | PR   | 26.00 | 60.0  | 40.03             | 0.00                  |

# PANEL STRENGTH:

| Surf<br>Id | Area   | Load<br>Id | -----Support----- |                   |       |       | -----Midspan----- |                   |       |       |
|------------|--------|------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------|-------|
|            |        |            | Offset<br>(ft)    | Moment (ft-lb/ft) |       |       | Offset<br>(ft)    | Moment (ft-lb/ft) |       |       |
|            |        |            |                   | Calc              | Limit | Ratio |                   | Calc              | Limit | Ratio |
| 2          | Left   | 1          | 35.0              | 58.1              | 153.1 | 0.38  | 38.1              | -42.8             | 111.4 | 0.38  |
|            |        | 2          | 35.0              | 40.7              | 153.1 | 0.27  | 38.1              | -29.9             | 111.4 | 0.27  |
|            |        | 3          | 35.0              | 40.7              | 153.1 | 0.27  | 38.1              | -29.9             | 111.4 | 0.27  |
|            |        | 4          | 35.0              | 64.0              | 153.1 | 0.42  | 38.1              | -47.1             | 111.4 | 0.42  |
|            |        | 5          | 35.0              | 50.9              | 153.1 | 0.33  | 38.1              | -37.4             | 111.4 | 0.34  |
|            |        | 6          | 35.0              | -100              | 111.4 | 0.90  | 38.1              | 72.0              | 153.1 | 0.47  |
|            |        | 7          | 35.0              | 47.6              | 153.1 | 0.31  | 38.1              | -35.0             | 111.4 | 0.31  |
|            |        | 8          | 35.0              | 56.0              | 153.1 | 0.37  | 38.1              | -41.2             | 111.4 | 0.37  |
| 2          | Center | 1          | 35.0              | 58.1              | 153.1 | 0.38  | 38.1              | -42.8             | 111.4 | 0.38  |
|            |        | 2          | 35.0              | 40.7              | 153.1 | 0.27  | 38.1              | -29.9             | 111.4 | 0.27  |
|            |        | 3          | 35.0              | 40.7              | 153.1 | 0.27  | 38.1              | -29.9             | 111.4 | 0.27  |
|            |        | 4          | 35.0              | 64.0              | 153.1 | 0.42  | 38.1              | -47.1             | 111.4 | 0.42  |
|            |        | 5          | 35.0              | 50.9              | 153.1 | 0.33  | 38.1              | -37.4             | 111.4 | 0.34  |
|            |        | 6          | 35.0              | -72.7             | 111.4 | 0.65  | 38.1              | 52.4              | 153.1 | 0.34  |
|            |        | 7          | 35.0              | 47.6              | 153.1 | 0.31  | 38.1              | -35.0             | 111.4 | 0.31  |
|            |        | 8          | 35.0              | 56.0              | 153.1 | 0.37  | 38.1              | -41.2             | 111.4 | 0.37  |
| 2          | Right  | 1          | 35.0              | 58.1              | 153.1 | 0.38  | 38.1              | -42.8             | 111.4 | 0.38  |
|            |        | 2          | 35.0              | 40.7              | 153.1 | 0.27  | 38.1              | -29.9             | 111.4 | 0.27  |
|            |        | 3          | 35.0              | 40.7              | 153.1 | 0.27  | 38.1              | -29.9             | 111.4 | 0.27  |
|            |        | 4          | 35.0              | 64.0              | 153.1 | 0.42  | 38.1              | -47.1             | 111.4 | 0.42  |
|            |        | 5          | 35.0              | 50.9              | 153.1 | 0.33  | 38.1              | -37.4             | 111.4 | 0.34  |
|            |        | 6          | 35.0              | -100              | 111.4 | 0.90  | 38.1              | 72.0              | 153.1 | 0.47  |
|            |        | 7          | 35.0              | 47.6              | 153.1 | 0.31  | 38.1              | -35.0             | 111.4 | 0.31  |
|            |        | 8          | 35.0              | 56.0              | 153.1 | 0.37  | 38.1              | -41.2             | 111.4 | 0.37  |

# PANEL DEFLECTION:

| Surf<br>Id | Area   | Load<br>Id | -----Deflection (in) ----- |       |       |       |
|------------|--------|------------|----------------------------|-------|-------|-------|
|            |        |            | Offset                     | Calc  | Limit | Ratio |
| 2          | Left   | 9          | 37.5                       | -0.16 | 1.00  | 0.16  |
|            |        | 10         | 37.5                       | -0.11 | 1.00  | 0.11  |
|            |        | 11         | 37.5                       | -0.11 | 1.00  | 0.11  |
|            |        | 12         | 37.5                       | -0.07 | 1.00  | 0.07  |
|            |        | 13         | 37.5                       | 0.27  | 1.00  | 0.27  |
|            |        | 14         | 37.5                       | -0.13 | 1.00  | 0.13  |
| 2          | Center | 9          | 37.5                       | -0.16 | 1.00  | 0.16  |
|            |        | 10         | 37.5                       | -0.11 | 1.00  | 0.11  |
|            |        | 11         | 37.5                       | -0.11 | 1.00  | 0.11  |
|            |        | 12         | 37.5                       | -0.07 | 1.00  | 0.07  |
|            |        | 13         | 37.5                       | 0.20  | 1.00  | 0.20  |
|            |        | 14         | 37.5                       | -0.13 | 1.00  | 0.13  |
| 2          | Right  | 9          | 37.5                       | -0.16 | 1.00  | 0.16  |
|            |        | 10         | 37.5                       | -0.11 | 1.00  | 0.11  |
|            |        | 11         | 37.5                       | -0.11 | 1.00  | 0.11  |
|            |        | 12         | 37.5                       | -0.07 | 1.00  | 0.07  |
|            |        | 13         | 37.5                       | 0.27  | 1.00  | 0.27  |

14            37.5 -0.13   1.00   0.13

LOAD COMBINATION:

| Load |                                     |
|------|-------------------------------------|
| Id   | Description                         |
| ---- | -----                               |
| 1    | Dead+Live                           |
| 2    | Dead+Snow                           |
| 3    | Dead+Snow+Snow_Drift                |
| 4    | Dead+0.75Live+0.45Wind_Pressure     |
| 5    | Dead+0.75Snow+0.45Wind_Pressure     |
| 6    | 0.6Dead+0.6Wind_Suction             |
| 7    | Dead+MIN_SNOW                       |
| 8    | Dead+0.45Wind_Pressure+0.75MIN_SNOW |
| 9    | Live                                |
| 10   | Snow                                |
| 11   | Snow+Snow_Drift                     |
| 12   | 0.54Wind_Pressure                   |
| 13   | 0.54Wind_Suction                    |
| 14   | MIN_SNOW                            |

|   |                  |                 |
|---|------------------|-----------------|
| T | Roof Panel Zones | 2/13/23 10:19am |
|---|------------------|-----------------|

# PANEL:

| Part  | Thick<br>(in) | Yield<br>(ksi ) | Tensile<br>Strength<br>(ksi ) |
|-------|---------------|-----------------|-------------------------------|
| PBR26 | 0.019         | 60.00           | 78.00                         |

# PURLIN SCREWS:

| Part | Dia<br>(in) | Washer<br>(in) | Limit<br>(k ) |
|------|-------------|----------------|---------------|
| #17A | 0.209       | 0.50           | 2.90          |

# PANEL ZONE LAYOUT:

| Surf |    | -----Zone-----  | ---Locate(ft)--- |        | --Surface(ft)-- |         | Bay | -Purlin(ft,in)- |       |              | Panel        |
|------|----|-----------------|------------------|--------|-----------------|---------|-----|-----------------|-------|--------------|--------------|
| Id   | Id | Description     | Start            | End    | Offset1         | Offset2 | Id  | Id              | Width | Min<br>Thick | Zone<br>(ft) |
| 2    | 1  | Interior        | 17.76            | 94.24  | 17.76           | 22.27   | 2   | 4               | 5.00  | 0.062        | 5.00         |
| 2    | 2  | Middle          | 8.88             | 103.12 | 8.88            | 31.15   | 2   | 3               | 5.00  | 0.062        | 5.00         |
| 2    | 7  | Lt top corner   | 0.00             | 8.88   | 0.00            | 2.96    | 1   | 1               | 5.00  | 0.074        | 5.00         |
| 2    | 8  | Rt top corner   | 103.12           | 112.00 | 0.00            | 2.96    | 4   | 1               | 5.00  | 0.074        | 5.00         |
| 2    | 9  | Rt bot corner   | 103.12           | 112.00 | 37.07           | 40.03   | 4   | 7               | 5.00  | 0.074        | 5.00         |
| 2    | 10 | Lt bot corner   | 0.00             | 8.88   | 37.07           | 40.03   | 1   | 7               | 5.00  | 0.074        | 5.00         |
| 2    | 11 | Lt top cor gabl | 0.00             | 2.96   | 2.96            | 8.88    | 1   | 1               | 5.00  | 0.074        | 5.00         |
| 2    | 12 | Rt top cor gabl | 109.04           | 112.00 | 2.96            | 8.88    | 4   | 1               | 5.00  | 0.074        | 5.00         |
| 2    | 13 | Rt bot cor gabl | 109.04           | 112.00 | 31.15           | 37.07   | 4   | 7               | 5.00  | 0.074        | 5.00         |
| 2    | 14 | Lt bot cor gabl | 0.00             | 2.96   | 31.15           | 37.07   | 1   | 7               | 5.00  | 0.074        | 5.00         |
| 2    | 15 | Exterior        | 0.00             | 112.00 | 0.00            | 40.03   | 2   | 7               | 5.00  | 0.062        | 5.00         |

# PURLIN SCREW CHECK:

| Surf |            | Wind           |                   | -----Limit(k )----- |                   |                   |                  |           |
|------|------------|----------------|-------------------|---------------------|-------------------|-------------------|------------------|-----------|
| Id   | Zone<br>Id | Screw<br>Space | Suction<br>(psf ) | Load<br>(k )        | Purlin<br>Pullout | Panel<br>Pullover | Screw<br>Tension | Max<br>UC |
| 2    | 1          | 0.95           | 12.30             | 0.06                | 0.23              | 0.37              | 0.77             | 0.25      |
| 2    | 2          | 0.95           | 21.40             | 0.10                | 0.23              | 0.37              | 0.77             | 0.44      |
| 2    | 7          | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 8          | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 9          | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 10         | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 11         | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 12         | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 13         | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 14         | 0.95           | 38.50             | 0.18                | 0.27              | 0.37              | 0.77             | 0.67      |
| 2    | 15         | 0.95           | 28.29             | 0.13                | 0.23              | 0.37              | 0.77             | 0.59      |

|   |                            |                 |
|---|----------------------------|-----------------|
| T | Roof Design Warning Report | 2/13/23 10:19am |
|---|----------------------------|-----------------|

.. No Warnings

```
*=====
*T                               Wall Design Input File                               2/13/23 10:19am
*=====
```

```
*( 1)VERSION/UNITS:
*VERSION      Units(I/M)
'2.01'        'I'
```

```
*( 2)JOB IDENTIFICATION:
*   Job Id
'T'
```

```
*( 3)DESIGN CODE:
*Design Steel_Code      ---Build---      Code      Seismic
*Code      Cold      Country      Code      Year      Label      Zone
'WS'      'NAUS16'      '----'      'IBC '      '18'      'IBC 18 '      'B '

```

```
*( 4)DESIGN CONSTANTS:
* ---Steel_Yield---      Stress      Strength_Factors
* C_Sec Z_Sec O_Sec      Ratio      Wind      Seismic
55.0 55.0 55.0 1.03 1.0000 1.0000
```

```
*( 5)DEFLECTION LIMITS:
* -----Rafter-----      Girt      Panel      Part
* Live      Wind      Total      Column      Wall      Wall      Wall
180. 180. 0. 180. 90. 60. 90.
```

```
*( 6)REPORTS:
*   Input      Column      Wall      Door      Wall      Cable
*   Echo      Rafter      Girt      Jamb      Panel      Brace
'I'      'Y'      'Y'      'Y'      'Y'      'Y'
```

```
*( 7)BUILDING SHAPE:
*   Build      Build      L_Eave      R_Eave      Peak      L_Roof      No.
*   Width      Length      Height      Height      Offset      Slope      Wall
40.0000 112.0000 14.7917 16.4583 0.0000 0.500 6
```

```
*( 8)WALL OPTIONS:
*Wall Design Detail      -----Notch-----      Base_Type      Base_Trim
* Id      Option      Option      Depth      Width      Ext      Parapet      Panel      Jamb      Panel      Jamb
1 'NYYY' 'YYYY' 1.500 1.500 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '
2 'NYYY' 'YYYY' 1.500 11.250 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '
3 'NYYY' 'YYYY' 1.500 1.500 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '
4 'NYYY' 'YYYY' 1.500 1.500 1.500 0.0000 'O ' 'O ' 'Y ' 'Y '

```

```
*( 9)INTERIOR WALL OPTIONS:
*Wall Design Detail      ----Notch---      Base_Type      Base_Trim
* Id      Option      Option      Depth      Width      Panel      Jamb      Panel      Jamb
6 'NYYY' 'YYYY' 0.000 0.000 '-' ' - ' 'N ' 'N '

```

```
*(10)STEP ELEVATION:
*No.
*Step      Start      End      Base      Eave      Step      -Slope_Offset-
1 0.0000 112.0000 0.0000 0.0000 '-' 0.0000 0.0000
```

```
*(11)HALL SYSTEM:
* No. Hall
-----
*Hall Id Type Orn Opt Width Height Locate Offset Length Depth Width L R S
E
0
```

```
*(12)WALL PARTITIONS:
*Sets_Of Wall Wall Column
```

| * Walls | Id | (L/T) | Offset | Length  | Quan | Location | Side |
|---------|----|-------|--------|---------|------|----------|------|
| 1       | 6  | 'T'   | 0.0000 | 40.0000 | 7    | 14.0000  | 'L'  |
|         |    |       |        |         |      | 28.0000  | 'L'  |
|         |    |       |        |         |      | 42.0000  | 'L'  |
|         |    |       |        |         |      | 56.0000  | 'L'  |
|         |    |       |        |         |      | 70.0000  | 'L'  |
|         |    |       |        |         |      | 84.0000  | 'L'  |
|         |    |       |        |         |      | 98.0000  | 'L'  |

\* (13) SPECIAL WALLS:

| * No. | --Location-- | -----Offset---- | Material | ---Extend--- | Base | Frame  |
|-------|--------------|-----------------|----------|--------------|------|--------|
| *Wall | Use          | Id              | Start    | End          | Type | Thick  |
|       |              |                 |          |              | Type | Offset |
|       |              |                 |          |              |      | Opt    |
| 0     |              |                 |          |              |      |        |

\* (14) RECESS:

| * No.   | -Location- |    |      |     |        |       |       |        |        | Wall_Id |
|---------|------------|----|------|-----|--------|-------|-------|--------|--------|---------|
| *Recess | Use        | Id | Type | Orn | Offset | Width | Depth | Height | Option | L C R   |
| 0       |            |    |      |     |        |       |       |        |        |         |

\* (15) BAY SPACING:

| *Wall | Sets_Of | Bay     | No.  |
|-------|---------|---------|------|
| * Id  | Bays    | Width   | Bays |
| 1     | 1       | 5.0000  | 8    |
| 2     | 1       | 14.0000 | 8    |
| 3     | 1       | 5.0000  | 8    |
| 4     | 1       | 4.6667  | 24   |
| 5     | 1       | 28.0000 | 4    |
| 6     | 1       | 5.0000  | 8    |

\* (16) BAY OPENINGS:

| *No.  | Wall | Bay | Bay    |      | Bay     | Open    | Open    | Sill   |     | Access  | Jamb_Type | Head   |
|-------|------|-----|--------|------|---------|---------|---------|--------|-----|---------|-----------|--------|
| Set   | Id   | Id  | Offset | Type | Depth   | Width   | Height  | Height | Opt | Id      | Lt        | Rt     |
| *Open | Id   | Id  | Offset | Type | Depth   | Width   | Height  | Height | Opt | Id      | Lt        | Rt     |
| epth  |      |     |        |      |         |         |         |        |     |         |           | Type D |
| 8     | 2    | 1   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 2   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 3   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 4   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 5   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 6   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 7   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |
|       | 2    | 8   | 1.0000 | 2    | 40.0000 | 12.0000 | 14.0000 | 0.0000 | '-' | 'DOOR62 | 'C        | 'C     |
| .000  |      |     |        |      |         |         |         |        |     |         |           | 'C ' 6 |

\* (17) DOORS:

| *No.  | -Location- |    | Door   | Door  |        | Access |
|-------|------------|----|--------|-------|--------|--------|
| *Door | Use        | Id | Locate | Width | Height | Rot    |
|       |            |    |        |       |        | Opt    |
|       |            |    |        |       |        | Id     |
| 0     |            |    |        |       |        |        |

\* (18) OPEN WALLS:

| *No.  | -Location- | --Bay_Id-- | Wall  | ----Type---- | Base   | Full |
|-------|------------|------------|-------|--------------|--------|------|
| *Wall | Use        | Id         | Start | End          | Height | Use  |
|       |            |            |       |              |        | Id   |
|       |            |            |       |              |        | Opt  |
|       |            |            |       |              |        | Type |
|       |            |            |       |              |        | Load |
| 0     |            |            |       |              |        |      |

\* (19) COLUMNS:

| *Wall | No. | Col | Col | Col | Col | Set |
|-------|-----|-----|-----|-----|-----|-----|
|-------|-----|-----|-----|-----|-----|-----|

| * Id | Col | Id | Type | Rot | Opt | Depth |
|------|-----|----|------|-----|-----|-------|
| 1    | 9   | 1  | '-'  | 'R' | '-' | 6.000 |
|      |     | 2  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 3  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 4  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 5  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 6  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 7  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 8  | 'C'  | 'F' | '-' | 6.000 |
|      |     | 9  | '-'  | 'R' | '-' | 6.000 |
| 2    | 9   | 10 | 'C'  | 'R' | '-' | 6.000 |
|      |     | 11 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 12 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 13 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 14 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 15 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 16 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 17 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 18 | 'C'  | 'L' | '-' | 6.000 |
| 3    | 9   | 19 | '-'  | 'L' | '-' | 6.000 |
|      |     | 20 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 21 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 22 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 23 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 24 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 25 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 26 | 'C'  | 'F' | '-' | 6.000 |
|      |     | 27 | '-'  | 'L' | '-' | 6.000 |
| 4    | 25  | 28 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 29 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 30 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 31 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 32 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 33 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 34 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 35 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 36 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 37 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 38 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 39 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 40 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 41 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 42 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 43 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 44 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 45 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 46 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 47 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 48 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 49 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 50 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 51 | 'C'  | 'L' | '-' | 6.000 |
|      |     | 52 | 'C'  | 'R' | '-' | 6.000 |

\* (20) INTERIOR COLUMNS:

| *Wall | No. | Col | Col  | Col | Col | Set   |
|-------|-----|-----|------|-----|-----|-------|
| * Id  | Col | Id  | Type | Rot | Opt | Depth |
| 6     | 9   | 53  | '-'  | 'L' | '-' | 6.000 |
|       |     | 54  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 55  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 56  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 57  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 58  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 59  | 'C'  | 'F' | '-' | 6.000 |
|       |     | 60  | 'C'  | 'F' | '-' | 6.000 |

61        '-'                'L'    '-'    6.000

\* (21) ADDITIONAL COLUMNS:

| *No. | Col | Location | Col | Col    | Col    | Col  | Col | Set |       |
|------|-----|----------|-----|--------|--------|------|-----|-----|-------|
| *Col | Id  | Use      | Id  | Locate | Offset | Type | Rot | Opt | Depth |
| 0    |     |          |     |        |        |      |     |     |       |

\* (22) RAFTERS:

| *Wall | No. | Raf | Raf     | Raf  | Raf | Raf | Set   |
|-------|-----|-----|---------|------|-----|-----|-------|
| * Id  | Raf | Id  | Offset  | Type | Rot | Opt | Depth |
| 1     | 0   |     |         |      |     |     |       |
| 2     | 4   | 1   | 0.0000  | 'O'  | '-' | '-' | 6.125 |
|       |     | 2   | 28.0000 | 'O'  | '-' | '-' | 6.125 |
|       |     | 3   | 56.0000 | 'O'  | '-' | '-' | 6.125 |
|       |     | 4   | 84.0000 | 'O'  | '-' | '-' | 6.125 |
| 3     | 0   |     |         |      |     |     |       |
| 4     | 4   | 5   | 0.0000  | 'O'  | '-' | '-' | 6.125 |
|       |     | 6   | 28.0000 | 'O'  | '-' | '-' | 6.125 |
|       |     | 7   | 56.0000 | 'O'  | '-' | '-' | 6.125 |
|       |     | 8   | 84.0000 | 'O'  | '-' | '-' | 6.125 |

\* (23) INTERIOR RAFTERS:

| *Wall | No. | Raf | Raf    | Raf  | Raf | Raf | Set   |
|-------|-----|-----|--------|------|-----|-----|-------|
| * Id  | Raf | Id  | Offset | Type | Rot | Opt | Depth |
| 6     | 0   |     |        |      |     |     |       |

\* (24) ADDITIONAL RAFTERS:

| *No. | Raf | Location | Raf | -----Offset----- | Raf   | Raf | Raf  | Set |     |       |
|------|-----|----------|-----|------------------|-------|-----|------|-----|-----|-------|
| *Raf | Id  | Use      | Id  | Locate           | Start | End | Type | Rot | Opt | Depth |
| 0    |     |          |     |                  |       |     |      |     |     |       |

\* (25) GIRT LAYOUT:

| *No.  | Wall | Top  | Girt | Flange | Set   | Max   | Max_Unbr |         |
|-------|------|------|------|--------|-------|-------|----------|---------|
| *Wall | Id   | Type | Type | Opt    | Strap | Depth | Space    | Length  |
| 4     | 1    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |
|       | 2    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |
|       | 3    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |
|       | 4    | 'CF' | '--' | '-'    | 'N'   | 6.000 | 10.0000  | 10.0000 |

\* (26) GIRT LOCATION:

| * No. | Wall | Set | No.  | Girt                        |
|-------|------|-----|------|-----------------------------|
| *Wall | Id   | Loc | Girt | Location                    |
| 4     | 1    | 'Y' | 3    | 3.6667    7.3333    11.0000 |
|       | 2    | 'Y' | 3    | 4.0000    8.0000    12.0000 |
|       | 3    | 'Y' | 3    | 3.6667    7.3333    11.0000 |
|       | 4    | 'Y' | 3    | 3.6667    7.3333    11.0000 |

\* (27) ROOF PURLINS:

| * Purlin | Peak   | No.    | ---Purlin---    |
|----------|--------|--------|-----------------|
| * Type   | Space  | Purlin | Location    Rot |
| 'ZB'     | 0.0000 | 7      | 5.0000    'N'   |
|          |        |        | 10.0000    'N'  |
|          |        |        | 15.0000    'N'  |
|          |        |        | 20.0000    'N'  |
|          |        |        | 25.0000    'N'  |
|          |        |        | 30.0000    'N'  |
|          |        |        | 35.0000    'N'  |

\* (28) EXTERIOR WALL PANEL:

| *Wall | -----Wall_Panel----- |     |      |       |       |
|-------|----------------------|-----|------|-------|-------|
| * Id  | Part                 | Rot | Opt  | Screw | Color |
| 1     | 'CUSPANL             | '-' | '--' | 'S--' | 'A1   |
| 2     | 'CUSPANL             | '-' | '--' | 'S--' | 'A1   |

3 'CUSPANL ' '-' '---' 'S--' 'A1 '

4 'CUSPANL ' '-' '---' 'S--' 'A1 '

\*(29) INTERIOR WALL PANEL:

\*Wall -----Wall\_Panel-----

| * Id | Part   | Rot | Opt | Screw | Color      |
|------|--------|-----|-----|-------|------------|
| 6    | 'PBR29 | '   | 'R' | '--'  | 'S--' 'GL' |

\*(30) ROOF PANEL:

| * Panel | Panel | Screw | -----Standing_Seam----- |      |      |           |             |
|---------|-------|-------|-------------------------|------|------|-----------|-------------|
| * Size  | Opt   | Type  | Use                     | Type | Clip | Seam Type | Clamp       |
| 'PBR26  | '     | '--'  | 'S--'                   | 'N'  | '3U' | 3.000     | '-----' 'N' |

\*(31) ADDITIONAL PANELS:

| * No.   | -Location- | -----Offset---- |       | Panel |      |     |     | Screw |       |     | Base |
|---------|------------|-----------------|-------|-------|------|-----|-----|-------|-------|-----|------|
| * Panel | Use        | Id              | Start | End   | Part | Rot | Opt | Type  | Color | Opt |      |
| 0       |            |                 |       |       |      |     |     |       |       |     |      |

\*(32) EXTERIOR WIND FRAMING:

| * Wall | Panel | Brace | Wall No. |      |     |
|--------|-------|-------|----------|------|-----|
| * Id   | Shear | Type  | Opt      | Dead | Bay |
| 1      | 'Y'   | 'N'   | '--'     | 2.00 | 0   |
| 2      | 'Y'   | 'N'   | '--'     | 2.00 | 0   |
| 3      | 'Y'   | 'N'   | '--'     | 2.00 | 0   |
| 4      | 'Y'   | 'S'   | '--'     | 2.00 | 0   |
| 5      | 'Y'   | 'N'   | '--'     | 2.50 | 0   |

\*(33) INTERIOR WIND FRAMING:

| * Panel | Brace | Wall No. |      |     |
|---------|-------|----------|------|-----|
| * Shear | Type  | Opt      | Dead | Bay |
| 'Y'     | 'N'   | '--'     | 2.00 | 0   |
| 'Y'     | 'N'   | '--'     | 2.00 | 0   |

\*(34) BASIC LOADS:

|        |        |      |      |      |       | ---Deflection--- |      |      | Wind   | Seis   |
|--------|--------|------|------|------|-------|------------------|------|------|--------|--------|
|        |        |      |      |      |       | Load_Ratio       |      |      | Load   | Load   |
| * Dead | Collat | Live | Snow | Rain | Basic | Snow             | Wind | Seis | Factor | Factor |
| * Load | Load   | Load | Load | Load | Wind  | Snow             | Wind | Seis |        |        |
| 2.0    | 0.5    | 20.0 | 13.4 | 0.0  | 19.0  | 1.00             | 0.54 | 1.00 | 0.60   | 1.00   |

\*(35) EDGE ZONE:

|         |      |       |      | Brace |
|---------|------|-------|------|-------|
| * Zone  | Col/ |       |      | Zone  |
| * Width | Girt | Panel | Jamb | Width |
| 4.000   | 1.07 | 1.00  | 1.07 | 4.000 |

\*(36) WIND PRESSURE/SUCTION:

| * Wind  | Wind  |                     |  |  |
|---------|-------|---------------------|--|--|
| * Press | Suct  |                     |  |  |
| 16.6    | -18.3 | .. Ext Column       |  |  |
| 16.6    | -18.3 | .. Girt/Header      |  |  |
| 16.6    | -18.3 | .. Jamb             |  |  |
| 20.5    | -27.3 | .. Ext Panel        |  |  |
| 43.7    | -28.0 | .. Parapet Girt     |  |  |
| 10.0    | -10.0 | .. Int Column       |  |  |
| 10.0    | -10.0 | .. Int Panel        |  |  |
| 8.4     | -6.1  | .. Bracing          |  |  |
| 12.8    | -9.1  | .. Bracing, Edge    |  |  |
| 28.5    | -19.0 | .. Bracing, Parapet |  |  |

\*(37) WIND COEFFICIENTS:

| * Surf | Wind_1 |       | Wind_2 |       | Long_Wind |       | Surface  |
|--------|--------|-------|--------|-------|-----------|-------|----------|
| * Id   | Left   | Right | Left   | Right | 1         | 2     | Friction |
| 1      | 0.41   | -0.54 | 0.85   | -0.18 | -0.64     | -0.64 | 0.00     |

|                                             |    |          |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|---------------------------------------------|----|----------|-------|-------|-------|-------|-------|------|--------|------|--------|------|-----------|-------------|------|---|
|                                             | 2  | -1.06    | -0.63 | -0.70 | -0.27 | -1.06 | -0.63 | 0.00 |        |      |        |      |           |             |      |   |
|                                             | 3  | -0.69    | 0.32  | -0.22 | 0.68  | -0.64 | -0.64 | 0.00 |        |      |        |      |           |             |      |   |
| *(38) COLUMN, RAFTER, BRACING DESIGN LOADS: |    |          |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
| * Load                                      |    |          |       |       |       |       |       |      | Wind_1 |      | Wind_2 |      | Long_Wind | Column_Wind |      |   |
|                                             |    | Aux_Load |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
| *No.                                        | Id | Dead     | Coll  | Live  | Snow  | Drift | Rain  | Left | Right  | Left | Right  | 1    | 2         | Press       | Suct | S |
| eis                                         | Id | Coef     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
| 52                                          | 1  | 1.00     | 1.00  | 1.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 2  | 1.00     | 1.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 3  | 1.00     | 1.00  | 0.00  | 1.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 4  | 1.00     | 1.00  | 0.00  | 1.00  | 1.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 5  | 1.00     | 1.00  | 0.75  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 6  | 1.00     | 1.00  | 0.00  | 0.75  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 7  | 1.00     | 1.00  | 0.00  | 0.75  | 0.75  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 8  | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.60 | 0.00      | 0.60        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 9  | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.60      | 0.60        | 0.00 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 10 | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.60 | 0.00      | 0.00        | 0.60 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 11 | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.00   | 0.00 | 0.60      | 0.00        | 0.60 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 12 | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.60 | 0.00   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.60 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 13 | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.60   | 0.00 | 0.00   | 0.00 | 0.00      | 0.00        | 0.60 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 14 | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.60 | 0.00   | 0.00 | 0.00      | 0.00        | 0.60 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 15 | 1.00     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 | 0.00   | 0.00 | 0.60   | 0.00 | 0.00      | 0.00        | 0.60 | 0 |
| .00                                         | 0  | 0.00     |       |       |       |       |       |      |        |      |        |      |           |             |      |   |
|                                             | 16 | 1.00     | 1.00  | 0.75  | 0.00  | 0.00  | 0.00  | 0    |        |      |        |      |           |             |      |   |

[illegible]

|      |    |        |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|------|----|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 0.00 | 6  | 1.00   | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 7  | 1.00   | 1.00 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 8  | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 9  | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 10 | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 11 | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 12 | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 13 | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 14 | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 15 | 1.00   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 16 | 1.00   | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 17 | 1.00   | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 18 | 1.00   | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 19 | 1.00   | 1.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 20 | 1.00   | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 21 | 1.00   | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 22 | 1.00   | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00   |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.00 | 23 | 1.00   | 1.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.75 | 0 |
|      | 0  | 0.00</ |      |      |      |      |      |      |      |      |      |      |      |      |      |   |

|     |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|     | 38 | 1.02 | 1.02 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| .53 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 39 | 1.02 | 1.02 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| .53 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 40 | 1.02 | 1.02 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| .53 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 41 | 1.02 | 1.02 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| .53 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 42 | 1.02 | 1.02 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| .53 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 43 | 1.02 | 1.02 | 0.00 | 0.75 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| .53 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 44 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| .70 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 45 | 0.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0 |
| .70 | 0  | 0.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 46 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0  |
| .00 | 1  | 1.00 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 47 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0  |
| .00 | 1  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|     | 48 | 1.00 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.45 | 0  |
| .00 | 1  | 0.75 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |

\* (40) AUXILIARY LOADS:

| * No. | Aux | Aux       | No.  | Add | Add  | Load |
|-------|-----|-----------|------|-----|------|------|
| * Aux | Id  | Name      | Comb | Id  | Coef |      |
| 1     | 1   | 'MIN_SNOW | '    | 1   | 1    | 1.00 |

\* (41) ADDITIONAL LOADS:

| *No. | Add | Surf | Basic    | Load | Load | F      |        | D      |         | ---   | Surface--- |
|------|-----|------|----------|------|------|--------|--------|--------|---------|-------|------------|
| *Add | Id  | Id   | Load     | Type | Orn  | W1     | W2     | D1     | D2      | Start | End        |
| 1    | 1   | 2    | 'U_SNOW' | 'D'  | 'T'  | -16.00 | -16.00 | 0.0000 | 40.0347 | 0.000 | 112.000    |

\* (42) TRIM STYLES:

| * No. | --Location-- |     | Jamb |
|-------|--------------|-----|------|
| *Trim | Type         | Id  | Trim |
| 14    | 'EXT         | ' 1 | '--' |
|       | 'EXT         | ' 2 | '--' |
|       | 'EXT         | ' 3 | '--' |
|       | 'EXT         | ' 4 | '--' |
|       | 'INT         | ' 0 | '--' |
|       | 'HALL        | ' 0 | '--' |
|       | 'RECE        | ' 0 | '--' |
|       | 'XTND        | ' 0 | '--' |
|       | 'STEP        | ' 0 | '--' |
|       | 'JAMB        | ' 0 | '--' |
|       | 'PARA        | ' 0 | '--' |
|       | 'FIRE        | ' 0 | '--' |
|       | 'CLIM        | ' 0 | '--' |
|       | 'LINE        | ' 0 | '--' |

\* (43) PANEL SCREWS:

| * No.  |        |       |         |       | Washer |                    |
|--------|--------|-------|---------|-------|--------|--------------------|
| * Zone | Zone   | Part  | Dia     | Limit | Dia    | -----Spacing-----  |
| 2      | 'INT'  | ' #29 | ' 0.209 | 2.900 | 0.500  | 12.000 6.000 0.000 |
|        | 'EDGE' | ' #29 | ' 0.209 | 2.900 | 0.500  | 12.000 6.000 0.000 |

\* AUXILIARY LOAD DESCRIPTIONS:

| * Aux |                   |  |
|-------|-------------------|--|
| * Id  | Description       |  |
| 1     | Minimum snow load |  |

\*

\*ADDITIONAL LOAD DESCRIPTIONS:

\* Add

\* Id Description

\* 1 Minimum snow load surface 2

\* Code file used was EW\_IBC.18N Version 4.0

STRUCTURAL CODE:  
Design Basis : WS  
Cold Formed Steel : NAUS16

BUILDING CODE:  
Wind Code : IBC 18  
Seismic Zone : B

MODULUS OF ELASTICITY  
Cold Formed Steel : 29500 (ksi )

ROOF LAYOUT:

| System |      | Roof_Extents |       | Roof   | Panel |
|--------|------|--------------|-------|--------|-------|
| Id     | Type | Start        | End   | Length | Part  |
| -----  | ---- | -----        | ----- | -----  | ----- |
| 1      | Long | 0.0          | 112.0 | 112.0  | PBR26 |

PANEL SHEAR:

| System |      | ---Offset--- |       | -Shear(k )- |       | Panel_Shear(lb/ft) |       |       |
|--------|------|--------------|-------|-------------|-------|--------------------|-------|-------|
| Id     | Type | Start        | End   | Wind        | Seis  | Wind               | Seis  | Limit |
| -----  | ---- | -----        | ----- | -----       | ----- | -----              | ----- | ----- |
| 1      | Long | 0.0          | 5.0   | 2.75        | 1.58  | 24.6               | 14.1  | 100.0 |
|        |      | 5.0          | 10.0  | 2.38        | 1.39  | 21.2               | 12.4  | 100.0 |
|        |      | 10.0         | 15.0  | 2.05        | 1.20  | 18.3               | 10.7  | 100.0 |
|        |      | 15.0         | 20.0  | 1.71        | 1.02  | 15.3               | 9.1   | 100.0 |
|        |      | 20.0         | 25.0  | 1.37        | 0.83  | 12.2               | 7.4   | 100.0 |
|        |      | 25.0         | 30.0  | 1.03        | 0.64  | 9.2                | 5.7   | 100.0 |
|        |      | 30.0         | 35.0  | 0.68        | 0.45  | 6.0                | 4.0   | 100.0 |
|        |      | 35.0         | 40.0  | 0.27        | 0.26  | 2.4                | 2.3   | 100.0 |

PANEL SHEAR:

| Wall | Offset | Wall_Extents<br>Start | End   | Base<br>Length | Panel<br>Part | -Force(k )-<br>Wind | Seis | Panel_Shear(lb/ft)<br>Wind | Seis | Limit |
|------|--------|-----------------------|-------|----------------|---------------|---------------------|------|----------------------------|------|-------|
| B_SW | 0.0    | 0.0                   | 112.0 | 112.0          | CUSPANL       | 3.00                | 1.82 | 26.8                       | 16.3 | 50.0  |
| F_SW | 40.0   | 0.0                   | 112.0 | Open           |               |                     |      |                            |      |       |
| L_EW | 0.0    | 0.0                   | 40.0  | 40.0           | CUSPANL       | 0.59                | 0.14 | 14.7                       | 3.5  | 50.0  |
| Tran | 14.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| Tran | 28.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| Tran | 42.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| Tran | 56.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| Tran | 70.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| Tran | 84.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| Tran | 98.0   | 0.0                   | 40.0  | 40.0           | PBR29         | 1.18                | 0.22 | 29.4                       | 5.5  | 100.0 |
| R_EW | 112.0  | 0.0                   | 40.0  | 40.0           | CUSPANL       | 0.59                | 0.14 | 14.7                       | 3.5  | 50.0  |

WALL LAYOUT:

| Wall Id | Orn | Load Width |
|---------|-----|------------|
| 1       | T   | 7.00       |

MEMBER LAYOUT:

| Id     | Locate |        | ---Web(in)-- |       | -Flange(in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|--------------|-------|--------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth        | Thick | Width        | Thick |             |             | Id               | UC   | Report  |
| Col2   | 5.0    | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.0        | 32.9        | 15               | 0.60 | Mom+Axl |
| Col3   | 10.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.3        | 33.4        | 15               | 0.60 | Mom+Axl |
| Col4   | 15.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.5        | 33.9        | 15               | 0.62 | Mom+Axl |
| Col5   | 20.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.7        | 34.3        | 10               | 0.64 | Deflect |
| Col6   | 25.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.9        | 34.8        | 10               | 0.67 | Deflect |
| Col7   | 30.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.1        | 35.2        | 10               | 0.70 | Deflect |
| Col8   | 35.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.3        | 35.7        | 10               | 0.74 | Deflect |
| Total= |        |        |              |       |              |       |             | 240.2       |                  |      |         |

DESIGN ACTIONS/STRENGTH:

| Id   | Load Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity_Check----- |       |               |               |
|------|---------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|---------------|---------------|
|      |         | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Axial+ Moment | Shear+ Moment |
| Col2 | 1       | 0.83        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.10                  | 0.00  | 0.10          | 0.00          |
| Col2 | 2       | 0.13        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.02                  | 0.00  | 0.02          | 0.00          |
| Col2 | 3       | 0.60        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.07                  | 0.00  | 0.07          | 0.00          |
| Col2 | 4       | 0.60        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.07                  | 0.00  | 0.07          | 0.00          |
| Col2 | 5       | 0.65        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.08                  | 0.00  | 0.08          | 0.00          |
| Col2 | 6       | 0.48        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.06                  | 0.00  | 0.06          | 0.00          |
| Col2 | 7       | 0.48        | 8.15  | 0.00        | 3.32  | 0.00         | 2.65  | 0.06                  | 0.00  | 0.06          | 0.00          |
| Col2 | 8       | -0.31       | 21.18 | 0.37        | 3.32  | -1.41        | 2.65  | 0.01                  | 0.11  | 0.52          | 0.00          |
| Col2 | 9       | -0.14       | 21.18 | 0.37        | 3.32  | -1.41        | 2.65  | 0.01                  | 0.11  | 0.53          | 0.00          |
| Col2 | 10      | -0.31       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.58          | 0.00          |
| Col2 | 11      | -0.14       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.59          | 0.00          |
| Col2 | 12      | -0.31       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.58          | 0.00          |
| Col2 | 13      | -0.14       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.59          | 0.00          |
| Col2 | 14      | -0.17       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.59          | 0.00          |
| Col2 | 15      | 0.00        | 8.15  | -0.42       | 3.32  | 1.59         | 2.65  | 0.00                  | 0.13  | 0.60          | 0.00          |
| Col2 | 16      | 0.44        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.05                  | 0.10  | 0.50          | 0.00          |
| Col2 | 17      | 0.57        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.07                  | 0.10  | 0.52          | 0.00          |
| Col2 | 18      | 0.34        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.04                  | 0.10  | 0.49          | 0.00          |
| Col2 | 19      | 0.47        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.06                  | 0.10  | 0.51          | 0.00          |
| Col2 | 20      | 0.27        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.03                  | 0.10  | 0.48          | 0.00          |
| Col2 | 21      | 0.40        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.05                  | 0.10  | 0.50          | 0.00          |
| Col2 | 22      | 0.16        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.02                  | 0.10  | 0.47          | 0.00          |
| Col2 | 23      | 0.29        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.04                  | 0.10  | 0.49          | 0.00          |
| Col2 | 24      | 0.27        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.03                  | 0.10  | 0.48          | 0.00          |
| Col2 | 25      | 0.40        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.05                  | 0.10  | 0.50          | 0.00          |
| Col2 | 26      | 0.16        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.02                  | 0.10  | 0.47          | 0.00          |
| Col2 | 27      | 0.29        | 8.15  | -0.32       | 3.32  | 1.19         | 2.65  | 0.04                  | 0.10  | 0.49          | 0.00          |
| Col2 | 28      | -0.34       | 21.18 | 0.37        | 3.32  | -1.41        | 2.65  | 0.02                  | 0.11  | 0.52          | 0.00          |
| Col2 | 29      | -0.17       | 21.18 | 0.37        | 3.32  | -1.41        | 2.65  | 0.01                  | 0.11  | 0.52          | 0.00          |
| Col2 | 30      | -0.34       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.02                  | 0.13  | 0.58          | 0.00          |
| Col2 | 31      | -0.17       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.59          | 0.00          |
| Col2 | 32      | -0.34       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.02                  | 0.13  | 0.58          | 0.00          |
| Col2 | 33      | -0.17       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.59          | 0.00          |
| Col2 | 34      | -0.20       | 21.18 | -0.42       | 3.32  | 1.59         | 2.65  | 0.01                  | 0.13  | 0.59          | 0.00          |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col2 | 35 | -0.02 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col2 | 36 | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 37 | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 38 | 0.66  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col2 | 39 | 0.66  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col2 | 40 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col2 | 41 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col2 | 42 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col2 | 43 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col2 | 44 | 0.08  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 45 | 0.08  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 46 | 0.69  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col2 | 47 | 0.34  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.04 | 0.10 | 0.49 | 0.00 |
| Col2 | 48 | 0.47  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.06 | 0.10 | 0.51 | 0.00 |
| Col2 | 49 | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 50 | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col2 | 51 | 0.08  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col2 | 52 | 0.08  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 1  | 0.83  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col3 | 2  | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 3  | 0.60  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 4  | 0.60  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 5  | 0.66  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 6  | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col3 | 7  | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col3 | 8  | -0.31 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.01 | 0.11 | 0.53 | 0.00 |
| Col3 | 9  | -0.14 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.01 | 0.11 | 0.54 | 0.00 |
| Col3 | 10 | -0.31 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col3 | 11 | -0.14 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col3 | 12 | -0.31 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col3 | 13 | -0.14 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col3 | 14 | -0.17 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col3 | 15 | 0.00  | 7.92  | -0.42 | 3.32 | 1.60  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col3 | 16 | 0.45  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.06 | 0.09 | 0.51 | 0.00 |
| Col3 | 17 | 0.57  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.07 | 0.09 | 0.52 | 0.00 |
| Col3 | 18 | 0.34  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.49 | 0.00 |
| Col3 | 19 | 0.47  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.06 | 0.09 | 0.51 | 0.00 |
| Col3 | 20 | 0.27  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.03 | 0.09 | 0.49 | 0.00 |
| Col3 | 21 | 0.40  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.05 | 0.09 | 0.50 | 0.00 |
| Col3 | 22 | 0.16  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.02 | 0.09 | 0.47 | 0.00 |
| Col3 | 23 | 0.29  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.49 | 0.00 |
| Col3 | 24 | 0.27  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.03 | 0.09 | 0.49 | 0.00 |
| Col3 | 25 | 0.40  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.05 | 0.09 | 0.50 | 0.00 |
| Col3 | 26 | 0.16  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.02 | 0.09 | 0.47 | 0.00 |
| Col3 | 27 | 0.29  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.49 | 0.00 |
| Col3 | 28 | -0.34 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.02 | 0.11 | 0.53 | 0.00 |
| Col3 | 29 | -0.17 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.01 | 0.11 | 0.54 | 0.00 |
| Col3 | 30 | -0.34 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.02 | 0.13 | 0.59 | 0.00 |
| Col3 | 31 | -0.17 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col3 | 32 | -0.34 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.02 | 0.13 | 0.59 | 0.00 |
| Col3 | 33 | -0.17 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col3 | 34 | -0.20 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col3 | 35 | -0.02 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col3 | 36 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 37 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col3 | 38 | 0.66  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 39 | 0.66  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col3 | 40 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col3 | 41 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col3 | 42 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col3 | 43 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col3 | 44 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 45 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col3 | 46 | 0.69  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col3 | 47 | 0.34  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.50 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col13 | 48 | 0.47  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.06 | 0.09 | 0.51 | 0.00 |
| Col13 | 49 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 50 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 51 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 52 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 1  | 0.83  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col14 | 2  | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 3  | 0.60  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col14 | 4  | 0.60  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col14 | 5  | 0.66  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col14 | 6  | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 7  | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 8  | -0.31 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.01 | 0.12 | 0.55 | 0.00 |
| Col14 | 9  | -0.14 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.01 | 0.12 | 0.56 | 0.00 |
| Col14 | 10 | -0.31 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col14 | 11 | -0.14 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col14 | 12 | -0.31 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col14 | 13 | -0.14 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col14 | 14 | -0.17 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col14 | 15 | 0.01  | 7.69  | -0.42 | 3.32 | 1.64  | 2.65 | 0.00 | 0.13 | 0.62 | 0.00 |
| Col14 | 16 | 0.45  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.06 | 0.10 | 0.52 | 0.00 |
| Col14 | 17 | 0.57  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.07 | 0.10 | 0.54 | 0.00 |
| Col14 | 18 | 0.34  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col14 | 19 | 0.47  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.06 | 0.10 | 0.53 | 0.00 |
| Col14 | 20 | 0.27  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col14 | 21 | 0.40  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col14 | 22 | 0.16  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.02 | 0.10 | 0.49 | 0.00 |
| Col14 | 23 | 0.29  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col14 | 24 | 0.27  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col14 | 25 | 0.40  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col14 | 26 | 0.16  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.02 | 0.10 | 0.49 | 0.00 |
| Col14 | 27 | 0.29  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col14 | 28 | -0.34 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.02 | 0.12 | 0.55 | 0.00 |
| Col14 | 29 | -0.17 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.01 | 0.12 | 0.55 | 0.00 |
| Col14 | 30 | -0.34 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.02 | 0.13 | 0.60 | 0.00 |
| Col14 | 31 | -0.17 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col14 | 32 | -0.34 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.02 | 0.13 | 0.60 | 0.00 |
| Col14 | 33 | -0.17 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col14 | 34 | -0.19 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col14 | 35 | -0.02 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.00 | 0.13 | 0.62 | 0.00 |
| Col14 | 36 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 37 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 38 | 0.66  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col14 | 39 | 0.66  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col14 | 40 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 41 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 42 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 43 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 44 | 0.08  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 45 | 0.08  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 46 | 0.69  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col14 | 47 | 0.34  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col14 | 48 | 0.47  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.06 | 0.10 | 0.53 | 0.00 |
| Col14 | 49 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 50 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 51 | 0.09  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 52 | 0.08  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 1  | 0.83  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col15 | 2  | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 3  | 0.60  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col15 | 4  | 0.60  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col15 | 5  | 0.66  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col15 | 6  | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col15 | 7  | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col15 | 8  | -0.31 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.01 | 0.12 | 0.56 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col15 | 9  | -0.14 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.01 | 0.12 | 0.57 | 0.00 |
| Col15 | 10 | -0.31 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.62 | 0.00 |
| Col15 | 11 | -0.14 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col15 | 12 | -0.31 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.62 | 0.00 |
| Col15 | 13 | -0.14 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col15 | 14 | -0.17 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col15 | 15 | 0.01  | 7.46  | -0.43 | 3.32 | 1.68  | 2.65 | 0.00 | 0.13 | 0.64 | 0.00 |
| Col15 | 16 | 0.45  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.06 | 0.10 | 0.54 | 0.00 |
| Col15 | 17 | 0.58  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.08 | 0.10 | 0.55 | 0.00 |
| Col15 | 18 | 0.34  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col15 | 19 | 0.47  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.06 | 0.10 | 0.54 | 0.00 |
| Col15 | 20 | 0.27  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col15 | 21 | 0.40  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.53 | 0.00 |
| Col15 | 22 | 0.17  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.02 | 0.10 | 0.50 | 0.00 |
| Col15 | 23 | 0.29  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.52 | 0.00 |
| Col15 | 24 | 0.27  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col15 | 25 | 0.40  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.53 | 0.00 |
| Col15 | 26 | 0.17  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.02 | 0.10 | 0.50 | 0.00 |
| Col15 | 27 | 0.29  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.52 | 0.00 |
| Col15 | 28 | -0.34 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.02 | 0.12 | 0.56 | 0.00 |
| Col15 | 29 | -0.17 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.01 | 0.12 | 0.57 | 0.00 |
| Col15 | 30 | -0.34 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.02 | 0.13 | 0.62 | 0.00 |
| Col15 | 31 | -0.17 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col15 | 32 | -0.34 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.02 | 0.13 | 0.62 | 0.00 |
| Col15 | 33 | -0.17 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col15 | 34 | -0.19 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col15 | 35 | -0.02 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.00 | 0.13 | 0.64 | 0.00 |
| Col15 | 36 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 37 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 38 | 0.66  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col15 | 39 | 0.66  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col15 | 40 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col15 | 41 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col15 | 42 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col15 | 43 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col15 | 44 | 0.08  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 45 | 0.08  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 46 | 0.69  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col15 | 47 | 0.34  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col15 | 48 | 0.47  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.06 | 0.10 | 0.54 | 0.00 |
| Col15 | 49 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 50 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 51 | 0.09  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 52 | 0.09  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 1  | 0.83  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col16 | 2  | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 3  | 0.60  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col16 | 4  | 0.60  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col16 | 5  | 0.66  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col16 | 6  | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col16 | 7  | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col16 | 8  | -0.31 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.01 | 0.12 | 0.58 | 0.00 |
| Col16 | 9  | -0.14 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.01 | 0.12 | 0.59 | 0.00 |
| Col16 | 10 | -0.31 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col16 | 11 | -0.14 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col16 | 12 | -0.31 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col16 | 13 | -0.14 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col16 | 14 | -0.17 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col16 | 15 | 0.01  | 7.22  | -0.44 | 3.32 | 1.73  | 2.65 | 0.00 | 0.13 | 0.65 | 0.00 |
| Col16 | 16 | 0.45  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col16 | 17 | 0.58  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.08 | 0.10 | 0.57 | 0.00 |
| Col16 | 18 | 0.34  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.05 | 0.10 | 0.54 | 0.00 |
| Col16 | 19 | 0.47  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col16 | 20 | 0.27  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col16 | 21 | 0.40  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col6 | 22 | 0.17  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.02 | 0.10 | 0.51 | 0.00 |
| Col6 | 23 | 0.29  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col6 | 24 | 0.27  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col6 | 25 | 0.40  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col6 | 26 | 0.17  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.02 | 0.10 | 0.51 | 0.00 |
| Col6 | 27 | 0.29  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col6 | 28 | -0.34 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.02 | 0.12 | 0.58 | 0.00 |
| Col6 | 29 | -0.17 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.01 | 0.12 | 0.58 | 0.00 |
| Col6 | 30 | -0.34 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col6 | 31 | -0.17 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col6 | 32 | -0.34 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col6 | 33 | -0.17 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col6 | 34 | -0.19 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col6 | 35 | -0.02 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.00 | 0.13 | 0.65 | 0.00 |
| Col6 | 36 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 37 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 38 | 0.66  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col6 | 39 | 0.66  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col6 | 40 | 0.49  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 41 | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 42 | 0.49  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 43 | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col6 | 44 | 0.08  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 45 | 0.08  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 46 | 0.69  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col6 | 47 | 0.34  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.05 | 0.10 | 0.54 | 0.00 |
| Col6 | 48 | 0.47  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.07 | 0.10 | 0.56 | 0.00 |
| Col6 | 49 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 50 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col6 | 51 | 0.09  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col6 | 52 | 0.09  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 1  | 0.83  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col7 | 2  | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 3  | 0.60  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col7 | 4  | 0.60  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col7 | 5  | 0.66  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col7 | 6  | 0.48  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 7  | 0.48  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 8  | -0.31 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.01 | 0.12 | 0.59 | 0.00 |
| Col7 | 9  | -0.14 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.01 | 0.12 | 0.60 | 0.00 |
| Col7 | 10 | -0.31 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 11 | -0.14 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 12 | -0.31 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 13 | -0.14 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 14 | -0.17 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 15 | 0.01  | 6.99  | -0.44 | 3.32 | 1.78  | 2.65 | 0.00 | 0.13 | 0.67 | 0.00 |
| Col7 | 16 | 0.45  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.06 | 0.10 | 0.57 | 0.00 |
| Col7 | 17 | 0.58  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.08 | 0.10 | 0.59 | 0.00 |
| Col7 | 18 | 0.34  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.05 | 0.10 | 0.55 | 0.00 |
| Col7 | 19 | 0.47  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.07 | 0.10 | 0.57 | 0.00 |
| Col7 | 20 | 0.27  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.54 | 0.00 |
| Col7 | 21 | 0.40  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.06 | 0.10 | 0.56 | 0.00 |
| Col7 | 22 | 0.17  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.02 | 0.10 | 0.53 | 0.00 |
| Col7 | 23 | 0.29  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.55 | 0.00 |
| Col7 | 24 | 0.27  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.54 | 0.00 |
| Col7 | 25 | 0.40  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.06 | 0.10 | 0.56 | 0.00 |
| Col7 | 26 | 0.17  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.02 | 0.10 | 0.53 | 0.00 |
| Col7 | 27 | 0.29  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.55 | 0.00 |
| Col7 | 28 | -0.34 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.02 | 0.12 | 0.59 | 0.00 |
| Col7 | 29 | -0.17 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.01 | 0.12 | 0.60 | 0.00 |
| Col7 | 30 | -0.34 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col7 | 31 | -0.17 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 32 | -0.34 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col7 | 33 | -0.17 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col7 | 34 | -0.19 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |

|      |    |       |       |       |      |       |      |      |      |      |      |
|------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col7 | 35 | -0.02 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.00 | 0.13 | 0.67 | 0.00 |
| Col7 | 36 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 37 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 38 | 0.66  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col7 | 39 | 0.66  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col7 | 40 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 41 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 42 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 43 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col7 | 44 | 0.08  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 45 | 0.08  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 46 | 0.69  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col7 | 47 | 0.34  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.05 | 0.10 | 0.55 | 0.00 |
| Col7 | 48 | 0.47  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.07 | 0.10 | 0.57 | 0.00 |
| Col7 | 49 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 50 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col7 | 51 | 0.09  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col7 | 52 | 0.09  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 1  | 0.83  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col8 | 2  | 0.13  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 3  | 0.60  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col8 | 4  | 0.60  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col8 | 5  | 0.66  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 6  | 0.48  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 7  | 0.48  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 8  | -0.31 | 21.18 | 0.41  | 3.32 | -1.65 | 2.65 | 0.01 | 0.12 | 0.61 | 0.00 |
| Col8 | 9  | -0.14 | 21.18 | 0.41  | 3.32 | -1.65 | 2.65 | 0.01 | 0.12 | 0.62 | 0.00 |
| Col8 | 10 | -0.31 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col8 | 11 | -0.14 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.70 | 0.00 |
| Col8 | 12 | -0.31 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col8 | 13 | -0.14 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.70 | 0.00 |
| Col8 | 14 | -0.16 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col8 | 15 | 0.01  | 6.75  | -0.46 | 3.32 | 1.86  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col8 | 16 | 0.45  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.07 | 0.10 | 0.59 | 0.00 |
| Col8 | 17 | 0.58  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.09 | 0.10 | 0.61 | 0.00 |
| Col8 | 18 | 0.34  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |
| Col8 | 19 | 0.47  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.07 | 0.10 | 0.60 | 0.00 |
| Col8 | 20 | 0.27  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col8 | 21 | 0.40  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.59 | 0.00 |
| Col8 | 22 | 0.17  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.02 | 0.10 | 0.55 | 0.00 |
| Col8 | 23 | 0.30  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col8 | 24 | 0.27  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col8 | 25 | 0.40  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.06 | 0.10 | 0.59 | 0.00 |
| Col8 | 26 | 0.17  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.02 | 0.10 | 0.55 | 0.00 |
| Col8 | 27 | 0.30  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.04 | 0.10 | 0.57 | 0.00 |
| Col8 | 28 | -0.34 | 21.18 | 0.41  | 3.32 | -1.65 | 2.65 | 0.02 | 0.12 | 0.61 | 0.00 |
| Col8 | 29 | -0.16 | 21.18 | 0.41  | 3.32 | -1.65 | 2.65 | 0.01 | 0.12 | 0.62 | 0.00 |
| Col8 | 30 | -0.34 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.02 | 0.14 | 0.69 | 0.00 |
| Col8 | 31 | -0.16 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col8 | 32 | -0.34 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.02 | 0.14 | 0.69 | 0.00 |
| Col8 | 33 | -0.16 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col8 | 34 | -0.19 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.01 | 0.14 | 0.69 | 0.00 |
| Col8 | 35 | -0.02 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col8 | 36 | 0.14  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 37 | 0.13  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 38 | 0.66  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 39 | 0.66  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 40 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 41 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 42 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 43 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col8 | 44 | 0.08  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 45 | 0.08  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 46 | 0.69  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col8 | 47 | 0.34  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |

|      |    |      |      |       |      |      |      |      |      |      |      |
|------|----|------|------|-------|------|------|------|------|------|------|------|
| Col8 | 48 | 0.47 | 6.75 | -0.34 | 3.32 | 1.39 | 2.65 | 0.07 | 0.10 | 0.60 | 0.00 |
| Col8 | 49 | 0.13 | 6.75 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 50 | 0.13 | 6.75 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col8 | 51 | 0.09 | 6.75 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col8 | 52 | 0.09 | 6.75 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

COLUMN REACTIONS:

| Id   | Load |           | In_Plane  | Out_Plane |
|------|------|-----------|-----------|-----------|
|      | Id   | Vert (k ) | Horz (k ) | Horz (k ) |
| Col2 | 1    | 0.83      | 0.00      | 0.00      |
| Col2 | 2    | 0.13      | 0.00      | 0.00      |
| Col2 | 3    | 0.60      | 0.00      | 0.00      |
| Col2 | 4    | 0.60      | 0.00      | 0.00      |
| Col2 | 5    | 0.65      | 0.00      | 0.00      |
| Col2 | 6    | 0.48      | 0.00      | 0.00      |
| Col2 | 7    | 0.48      | 0.00      | 0.00      |
| Col2 | 8    | -0.31     | 0.00      | -0.37     |
| Col2 | 9    | -0.14     | 0.00      | -0.37     |
| Col2 | 10   | -0.31     | 0.00      | 0.42      |
| Col2 | 11   | -0.14     | 0.00      | 0.42      |
| Col2 | 12   | -0.31     | 0.00      | 0.42      |
| Col2 | 13   | -0.14     | 0.00      | 0.42      |
| Col2 | 14   | -0.17     | 0.00      | 0.42      |
| Col2 | 15   | 0.00      | 0.00      | 0.42      |
| Col2 | 16   | 0.44      | 0.00      | 0.32      |
| Col2 | 17   | 0.57      | 0.00      | 0.32      |
| Col2 | 18   | 0.34      | 0.00      | 0.32      |
| Col2 | 19   | 0.47      | 0.00      | 0.32      |
| Col2 | 20   | 0.27      | 0.00      | 0.32      |
| Col2 | 21   | 0.40      | 0.00      | 0.32      |
| Col2 | 22   | 0.16      | 0.00      | 0.32      |
| Col2 | 23   | 0.29      | 0.00      | 0.32      |
| Col2 | 24   | 0.27      | 0.00      | 0.32      |
| Col2 | 25   | 0.40      | 0.00      | 0.32      |
| Col2 | 26   | 0.16      | 0.00      | 0.32      |
| Col2 | 27   | 0.29      | 0.00      | 0.32      |
| Col2 | 28   | -0.34     | 0.00      | -0.37     |
| Col2 | 29   | -0.17     | 0.00      | -0.37     |
| Col2 | 30   | -0.34     | 0.00      | 0.42      |
| Col2 | 31   | -0.17     | 0.00      | 0.42      |
| Col2 | 32   | -0.34     | 0.00      | 0.42      |
| Col2 | 33   | -0.17     | 0.00      | 0.42      |
| Col2 | 34   | -0.20     | 0.00      | 0.42      |
| Col2 | 35   | -0.02     | 0.00      | 0.42      |
| Col2 | 36   | 0.13      | 0.00      | 0.00      |
| Col2 | 37   | 0.13      | 0.00      | 0.00      |
| Col2 | 38   | 0.66      | 0.00      | 0.00      |
| Col2 | 39   | 0.66      | 0.00      | 0.00      |
| Col2 | 40   | 0.48      | 0.00      | 0.00      |
| Col2 | 41   | 0.48      | 0.00      | 0.00      |
| Col2 | 42   | 0.48      | 0.00      | 0.00      |
| Col2 | 43   | 0.48      | 0.00      | 0.00      |
| Col2 | 44   | 0.08      | 0.00      | 0.00      |
| Col2 | 45   | 0.08      | 0.00      | 0.00      |
| Col2 | 46   | 0.69      | 0.00      | 0.00      |
| Col2 | 47   | 0.34      | 0.00      | 0.32      |
| Col2 | 48   | 0.47      | 0.00      | 0.32      |
| Col2 | 49   | 0.13      | 0.00      | 0.00      |
| Col2 | 50   | 0.13      | 0.00      | 0.00      |
| Col2 | 51   | 0.08      | 0.00      | 0.00      |
| Col2 | 52   | 0.08      | 0.00      | 0.00      |
| Col3 | 1    | 0.83      | 0.00      | 0.00      |
| Col3 | 2    | 0.13      | 0.00      | 0.00      |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col3 | 3  | 0.60  | 0.00 | 0.00  |
| Col3 | 4  | 0.60  | 0.00 | 0.00  |
| Col3 | 5  | 0.66  | 0.00 | 0.00  |
| Col3 | 6  | 0.48  | 0.00 | 0.00  |
| Col3 | 7  | 0.48  | 0.00 | 0.00  |
| Col3 | 8  | -0.31 | 0.00 | -0.38 |
| Col3 | 9  | -0.14 | 0.00 | -0.38 |
| Col3 | 10 | -0.31 | 0.00 | 0.42  |
| Col3 | 11 | -0.14 | 0.00 | 0.42  |
| Col3 | 12 | -0.31 | 0.00 | 0.42  |
| Col3 | 13 | -0.14 | 0.00 | 0.42  |
| Col3 | 14 | -0.17 | 0.00 | 0.42  |
| Col3 | 15 | 0.00  | 0.00 | 0.42  |
| Col3 | 16 | 0.45  | 0.00 | 0.31  |
| Col3 | 17 | 0.57  | 0.00 | 0.31  |
| Col3 | 18 | 0.34  | 0.00 | 0.31  |
| Col3 | 19 | 0.47  | 0.00 | 0.31  |
| Col3 | 20 | 0.27  | 0.00 | 0.31  |
| Col3 | 21 | 0.40  | 0.00 | 0.31  |
| Col3 | 22 | 0.16  | 0.00 | 0.31  |
| Col3 | 23 | 0.29  | 0.00 | 0.31  |
| Col3 | 24 | 0.27  | 0.00 | 0.31  |
| Col3 | 25 | 0.40  | 0.00 | 0.31  |
| Col3 | 26 | 0.16  | 0.00 | 0.31  |
| Col3 | 27 | 0.29  | 0.00 | 0.31  |
| Col3 | 28 | -0.34 | 0.00 | -0.38 |
| Col3 | 29 | -0.17 | 0.00 | -0.38 |
| Col3 | 30 | -0.34 | 0.00 | 0.42  |
| Col3 | 31 | -0.17 | 0.00 | 0.42  |
| Col3 | 32 | -0.34 | 0.00 | 0.42  |
| Col3 | 33 | -0.17 | 0.00 | 0.42  |
| Col3 | 34 | -0.20 | 0.00 | 0.42  |
| Col3 | 35 | -0.02 | 0.00 | 0.42  |
| Col3 | 36 | 0.13  | 0.00 | 0.00  |
| Col3 | 37 | 0.13  | 0.00 | 0.00  |
| Col3 | 38 | 0.66  | 0.00 | 0.00  |
| Col3 | 39 | 0.66  | 0.00 | 0.00  |
| Col3 | 40 | 0.48  | 0.00 | 0.00  |
| Col3 | 41 | 0.48  | 0.00 | 0.00  |
| Col3 | 42 | 0.48  | 0.00 | 0.00  |
| Col3 | 43 | 0.48  | 0.00 | 0.00  |
| Col3 | 44 | 0.08  | 0.00 | 0.00  |
| Col3 | 45 | 0.08  | 0.00 | 0.00  |
| Col3 | 46 | 0.69  | 0.00 | 0.00  |
| Col3 | 47 | 0.34  | 0.00 | 0.31  |
| Col3 | 48 | 0.47  | 0.00 | 0.31  |
| Col3 | 49 | 0.13  | 0.00 | 0.00  |
| Col3 | 50 | 0.13  | 0.00 | 0.00  |
| Col3 | 51 | 0.08  | 0.00 | 0.00  |
| Col3 | 52 | 0.08  | 0.00 | 0.00  |
| Col4 | 1  | 0.83  | 0.00 | 0.00  |
| Col4 | 2  | 0.13  | 0.00 | 0.00  |
| Col4 | 3  | 0.60  | 0.00 | 0.00  |
| Col4 | 4  | 0.60  | 0.00 | 0.00  |
| Col4 | 5  | 0.66  | 0.00 | 0.00  |
| Col4 | 6  | 0.48  | 0.00 | 0.00  |
| Col4 | 7  | 0.48  | 0.00 | 0.00  |
| Col4 | 8  | -0.31 | 0.00 | -0.38 |
| Col4 | 9  | -0.14 | 0.00 | -0.38 |
| Col4 | 10 | -0.31 | 0.00 | 0.42  |
| Col4 | 11 | -0.14 | 0.00 | 0.42  |
| Col4 | 12 | -0.31 | 0.00 | 0.42  |
| Col4 | 13 | -0.14 | 0.00 | 0.42  |
| Col4 | 14 | -0.17 | 0.00 | 0.42  |
| Col4 | 15 | 0.01  | 0.00 | 0.42  |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col4 | 16 | 0.45  | 0.00 | 0.32  |
| Col4 | 17 | 0.57  | 0.00 | 0.32  |
| Col4 | 18 | 0.34  | 0.00 | 0.32  |
| Col4 | 19 | 0.47  | 0.00 | 0.32  |
| Col4 | 20 | 0.27  | 0.00 | 0.32  |
| Col4 | 21 | 0.40  | 0.00 | 0.32  |
| Col4 | 22 | 0.16  | 0.00 | 0.32  |
| Col4 | 23 | 0.29  | 0.00 | 0.32  |
| Col4 | 24 | 0.27  | 0.00 | 0.32  |
| Col4 | 25 | 0.40  | 0.00 | 0.32  |
| Col4 | 26 | 0.16  | 0.00 | 0.32  |
| Col4 | 27 | 0.29  | 0.00 | 0.32  |
| Col4 | 28 | -0.34 | 0.00 | -0.38 |
| Col4 | 29 | -0.17 | 0.00 | -0.38 |
| Col4 | 30 | -0.34 | 0.00 | 0.42  |
| Col4 | 31 | -0.17 | 0.00 | 0.42  |
| Col4 | 32 | -0.34 | 0.00 | 0.42  |
| Col4 | 33 | -0.17 | 0.00 | 0.42  |
| Col4 | 34 | -0.19 | 0.00 | 0.42  |
| Col4 | 35 | -0.02 | 0.00 | 0.42  |
| Col4 | 36 | 0.13  | 0.00 | 0.00  |
| Col4 | 37 | 0.13  | 0.00 | 0.00  |
| Col4 | 38 | 0.66  | 0.00 | 0.00  |
| Col4 | 39 | 0.66  | 0.00 | 0.00  |
| Col4 | 40 | 0.48  | 0.00 | 0.00  |
| Col4 | 41 | 0.48  | 0.00 | 0.00  |
| Col4 | 42 | 0.48  | 0.00 | 0.00  |
| Col4 | 43 | 0.48  | 0.00 | 0.00  |
| Col4 | 44 | 0.08  | 0.00 | 0.00  |
| Col4 | 45 | 0.08  | 0.00 | 0.00  |
| Col4 | 46 | 0.69  | 0.00 | 0.00  |
| Col4 | 47 | 0.34  | 0.00 | 0.32  |
| Col4 | 48 | 0.47  | 0.00 | 0.32  |
| Col4 | 49 | 0.13  | 0.00 | 0.00  |
| Col4 | 50 | 0.13  | 0.00 | 0.00  |
| Col4 | 51 | 0.09  | 0.00 | 0.00  |
| Col4 | 52 | 0.08  | 0.00 | 0.00  |
| Col5 | 1  | 0.83  | 0.00 | 0.00  |
| Col5 | 2  | 0.13  | 0.00 | 0.00  |
| Col5 | 3  | 0.60  | 0.00 | 0.00  |
| Col5 | 4  | 0.60  | 0.00 | 0.00  |
| Col5 | 5  | 0.66  | 0.00 | 0.00  |
| Col5 | 6  | 0.48  | 0.00 | 0.00  |
| Col5 | 7  | 0.48  | 0.00 | 0.00  |
| Col5 | 8  | -0.31 | 0.00 | -0.39 |
| Col5 | 9  | -0.14 | 0.00 | -0.39 |
| Col5 | 10 | -0.31 | 0.00 | 0.43  |
| Col5 | 11 | -0.14 | 0.00 | 0.43  |
| Col5 | 12 | -0.31 | 0.00 | 0.43  |
| Col5 | 13 | -0.14 | 0.00 | 0.43  |
| Col5 | 14 | -0.17 | 0.00 | 0.43  |
| Col5 | 15 | 0.01  | 0.00 | 0.43  |
| Col5 | 16 | 0.45  | 0.00 | 0.32  |
| Col5 | 17 | 0.58  | 0.00 | 0.32  |
| Col5 | 18 | 0.34  | 0.00 | 0.32  |
| Col5 | 19 | 0.47  | 0.00 | 0.32  |
| Col5 | 20 | 0.27  | 0.00 | 0.32  |
| Col5 | 21 | 0.40  | 0.00 | 0.32  |
| Col5 | 22 | 0.17  | 0.00 | 0.32  |
| Col5 | 23 | 0.29  | 0.00 | 0.32  |
| Col5 | 24 | 0.27  | 0.00 | 0.32  |
| Col5 | 25 | 0.40  | 0.00 | 0.32  |
| Col5 | 26 | 0.17  | 0.00 | 0.32  |
| Col5 | 27 | 0.29  | 0.00 | 0.32  |
| Col5 | 28 | -0.34 | 0.00 | -0.39 |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col5 | 29 | -0.17 | 0.00 | -0.39 |
| Col5 | 30 | -0.34 | 0.00 | 0.43  |
| Col5 | 31 | -0.17 | 0.00 | 0.43  |
| Col5 | 32 | -0.34 | 0.00 | 0.43  |
| Col5 | 33 | -0.17 | 0.00 | 0.43  |
| Col5 | 34 | -0.19 | 0.00 | 0.43  |
| Col5 | 35 | -0.02 | 0.00 | 0.43  |
| Col5 | 36 | 0.13  | 0.00 | 0.00  |
| Col5 | 37 | 0.13  | 0.00 | 0.00  |
| Col5 | 38 | 0.66  | 0.00 | 0.00  |
| Col5 | 39 | 0.66  | 0.00 | 0.00  |
| Col5 | 40 | 0.48  | 0.00 | 0.00  |
| Col5 | 41 | 0.48  | 0.00 | 0.00  |
| Col5 | 42 | 0.48  | 0.00 | 0.00  |
| Col5 | 43 | 0.48  | 0.00 | 0.00  |
| Col5 | 44 | 0.08  | 0.00 | 0.00  |
| Col5 | 45 | 0.08  | 0.00 | 0.00  |
| Col5 | 46 | 0.69  | 0.00 | 0.00  |
| Col5 | 47 | 0.34  | 0.00 | 0.32  |
| Col5 | 48 | 0.47  | 0.00 | 0.32  |
| Col5 | 49 | 0.13  | 0.00 | 0.00  |
| Col5 | 50 | 0.13  | 0.00 | 0.00  |
| Col5 | 51 | 0.09  | 0.00 | 0.00  |
| Col5 | 52 | 0.09  | 0.00 | 0.00  |
| Col6 | 1  | 0.83  | 0.00 | 0.00  |
| Col6 | 2  | 0.13  | 0.00 | 0.00  |
| Col6 | 3  | 0.60  | 0.00 | 0.00  |
| Col6 | 4  | 0.60  | 0.00 | 0.00  |
| Col6 | 5  | 0.66  | 0.00 | 0.00  |
| Col6 | 6  | 0.48  | 0.00 | 0.00  |
| Col6 | 7  | 0.48  | 0.00 | 0.00  |
| Col6 | 8  | -0.31 | 0.00 | -0.40 |
| Col6 | 9  | -0.14 | 0.00 | -0.40 |
| Col6 | 10 | -0.31 | 0.00 | 0.44  |
| Col6 | 11 | -0.14 | 0.00 | 0.44  |
| Col6 | 12 | -0.31 | 0.00 | 0.44  |
| Col6 | 13 | -0.14 | 0.00 | 0.44  |
| Col6 | 14 | -0.17 | 0.00 | 0.44  |
| Col6 | 15 | 0.01  | 0.00 | 0.44  |
| Col6 | 16 | 0.45  | 0.00 | 0.33  |
| Col6 | 17 | 0.58  | 0.00 | 0.33  |
| Col6 | 18 | 0.34  | 0.00 | 0.33  |
| Col6 | 19 | 0.47  | 0.00 | 0.33  |
| Col6 | 20 | 0.27  | 0.00 | 0.33  |
| Col6 | 21 | 0.40  | 0.00 | 0.33  |
| Col6 | 22 | 0.17  | 0.00 | 0.33  |
| Col6 | 23 | 0.29  | 0.00 | 0.33  |
| Col6 | 24 | 0.27  | 0.00 | 0.33  |
| Col6 | 25 | 0.40  | 0.00 | 0.33  |
| Col6 | 26 | 0.17  | 0.00 | 0.33  |
| Col6 | 27 | 0.29  | 0.00 | 0.33  |
| Col6 | 28 | -0.34 | 0.00 | -0.40 |
| Col6 | 29 | -0.17 | 0.00 | -0.40 |
| Col6 | 30 | -0.34 | 0.00 | 0.44  |
| Col6 | 31 | -0.17 | 0.00 | 0.44  |
| Col6 | 32 | -0.34 | 0.00 | 0.44  |
| Col6 | 33 | -0.17 | 0.00 | 0.44  |
| Col6 | 34 | -0.19 | 0.00 | 0.44  |
| Col6 | 35 | -0.02 | 0.00 | 0.44  |
| Col6 | 36 | 0.13  | 0.00 | 0.00  |
| Col6 | 37 | 0.13  | 0.00 | 0.00  |
| Col6 | 38 | 0.66  | 0.00 | 0.00  |
| Col6 | 39 | 0.66  | 0.00 | 0.00  |
| Col6 | 40 | 0.49  | 0.00 | 0.00  |
| Col6 | 41 | 0.48  | 0.00 | 0.00  |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col6 | 42 | 0.49  | 0.00 | 0.00  |
| Col6 | 43 | 0.48  | 0.00 | 0.00  |
| Col6 | 44 | 0.08  | 0.00 | 0.00  |
| Col6 | 45 | 0.08  | 0.00 | 0.00  |
| Col6 | 46 | 0.69  | 0.00 | 0.00  |
| Col6 | 47 | 0.34  | 0.00 | 0.33  |
| Col6 | 48 | 0.47  | 0.00 | 0.33  |
| Col6 | 49 | 0.13  | 0.00 | 0.00  |
| Col6 | 50 | 0.13  | 0.00 | 0.00  |
| Col6 | 51 | 0.09  | 0.00 | 0.00  |
| Col6 | 52 | 0.09  | 0.00 | 0.00  |
| Col7 | 1  | 0.83  | 0.00 | 0.00  |
| Col7 | 2  | 0.13  | 0.00 | 0.00  |
| Col7 | 3  | 0.60  | 0.00 | 0.00  |
| Col7 | 4  | 0.60  | 0.00 | 0.00  |
| Col7 | 5  | 0.66  | 0.00 | 0.00  |
| Col7 | 6  | 0.48  | 0.00 | 0.00  |
| Col7 | 7  | 0.48  | 0.00 | 0.00  |
| Col7 | 8  | -0.31 | 0.00 | -0.40 |
| Col7 | 9  | -0.14 | 0.00 | -0.40 |
| Col7 | 10 | -0.31 | 0.00 | 0.44  |
| Col7 | 11 | -0.14 | 0.00 | 0.44  |
| Col7 | 12 | -0.31 | 0.00 | 0.44  |
| Col7 | 13 | -0.14 | 0.00 | 0.44  |
| Col7 | 14 | -0.17 | 0.00 | 0.44  |
| Col7 | 15 | 0.01  | 0.00 | 0.44  |
| Col7 | 16 | 0.45  | 0.00 | 0.33  |
| Col7 | 17 | 0.58  | 0.00 | 0.33  |
| Col7 | 18 | 0.34  | 0.00 | 0.33  |
| Col7 | 19 | 0.47  | 0.00 | 0.33  |
| Col7 | 20 | 0.27  | 0.00 | 0.33  |
| Col7 | 21 | 0.40  | 0.00 | 0.33  |
| Col7 | 22 | 0.17  | 0.00 | 0.33  |
| Col7 | 23 | 0.29  | 0.00 | 0.33  |
| Col7 | 24 | 0.27  | 0.00 | 0.33  |
| Col7 | 25 | 0.40  | 0.00 | 0.33  |
| Col7 | 26 | 0.17  | 0.00 | 0.33  |
| Col7 | 27 | 0.29  | 0.00 | 0.33  |
| Col7 | 28 | -0.34 | 0.00 | -0.40 |
| Col7 | 29 | -0.17 | 0.00 | -0.40 |
| Col7 | 30 | -0.34 | 0.00 | 0.44  |
| Col7 | 31 | -0.17 | 0.00 | 0.44  |
| Col7 | 32 | -0.34 | 0.00 | 0.44  |
| Col7 | 33 | -0.17 | 0.00 | 0.44  |
| Col7 | 34 | -0.19 | 0.00 | 0.44  |
| Col7 | 35 | -0.02 | 0.00 | 0.44  |
| Col7 | 36 | 0.13  | 0.00 | 0.00  |
| Col7 | 37 | 0.13  | 0.00 | 0.00  |
| Col7 | 38 | 0.66  | 0.00 | 0.00  |
| Col7 | 39 | 0.66  | 0.00 | 0.00  |
| Col7 | 40 | 0.49  | 0.00 | 0.00  |
| Col7 | 41 | 0.49  | 0.00 | 0.00  |
| Col7 | 42 | 0.49  | 0.00 | 0.00  |
| Col7 | 43 | 0.49  | 0.00 | 0.00  |
| Col7 | 44 | 0.08  | 0.00 | 0.00  |
| Col7 | 45 | 0.08  | 0.00 | 0.00  |
| Col7 | 46 | 0.69  | 0.00 | 0.00  |
| Col7 | 47 | 0.34  | 0.00 | 0.33  |
| Col7 | 48 | 0.47  | 0.00 | 0.33  |
| Col7 | 49 | 0.13  | 0.00 | 0.00  |
| Col7 | 50 | 0.13  | 0.00 | 0.00  |
| Col7 | 51 | 0.09  | 0.00 | 0.00  |
| Col7 | 52 | 0.09  | 0.00 | 0.00  |
| Col8 | 1  | 0.83  | 0.00 | 0.00  |
| Col8 | 2  | 0.13  | 0.00 | 0.00  |

|      |    |       |      |       |
|------|----|-------|------|-------|
| Col8 | 3  | 0.60  | 0.00 | 0.00  |
| Col8 | 4  | 0.60  | 0.00 | 0.00  |
| Col8 | 5  | 0.66  | 0.00 | 0.00  |
| Col8 | 6  | 0.48  | 0.00 | 0.00  |
| Col8 | 7  | 0.48  | 0.00 | 0.00  |
| Col8 | 8  | -0.31 | 0.00 | -0.41 |
| Col8 | 9  | -0.14 | 0.00 | -0.41 |
| Col8 | 10 | -0.31 | 0.00 | 0.46  |
| Col8 | 11 | -0.14 | 0.00 | 0.46  |
| Col8 | 12 | -0.31 | 0.00 | 0.46  |
| Col8 | 13 | -0.14 | 0.00 | 0.46  |
| Col8 | 14 | -0.16 | 0.00 | 0.46  |
| Col8 | 15 | 0.01  | 0.00 | 0.46  |
| Col8 | 16 | 0.45  | 0.00 | 0.34  |
| Col8 | 17 | 0.58  | 0.00 | 0.34  |
| Col8 | 18 | 0.34  | 0.00 | 0.34  |
| Col8 | 19 | 0.47  | 0.00 | 0.34  |
| Col8 | 20 | 0.27  | 0.00 | 0.34  |
| Col8 | 21 | 0.40  | 0.00 | 0.34  |
| Col8 | 22 | 0.17  | 0.00 | 0.34  |
| Col8 | 23 | 0.30  | 0.00 | 0.34  |
| Col8 | 24 | 0.27  | 0.00 | 0.34  |
| Col8 | 25 | 0.40  | 0.00 | 0.34  |
| Col8 | 26 | 0.17  | 0.00 | 0.34  |
| Col8 | 27 | 0.30  | 0.00 | 0.34  |
| Col8 | 28 | -0.34 | 0.00 | -0.41 |
| Col8 | 29 | -0.16 | 0.00 | -0.41 |
| Col8 | 30 | -0.34 | 0.00 | 0.46  |
| Col8 | 31 | -0.16 | 0.00 | 0.46  |
| Col8 | 32 | -0.34 | 0.00 | 0.46  |
| Col8 | 33 | -0.16 | 0.00 | 0.46  |
| Col8 | 34 | -0.19 | 0.00 | 0.46  |
| Col8 | 35 | -0.02 | 0.00 | 0.46  |
| Col8 | 36 | 0.14  | 0.00 | 0.00  |
| Col8 | 37 | 0.13  | 0.00 | 0.00  |
| Col8 | 38 | 0.66  | 0.00 | 0.00  |
| Col8 | 39 | 0.66  | 0.00 | 0.00  |
| Col8 | 40 | 0.49  | 0.00 | 0.00  |
| Col8 | 41 | 0.49  | 0.00 | 0.00  |
| Col8 | 42 | 0.49  | 0.00 | 0.00  |
| Col8 | 43 | 0.49  | 0.00 | 0.00  |
| Col8 | 44 | 0.08  | 0.00 | 0.00  |
| Col8 | 45 | 0.08  | 0.00 | 0.00  |
| Col8 | 46 | 0.69  | 0.00 | 0.00  |
| Col8 | 47 | 0.34  | 0.00 | 0.34  |
| Col8 | 48 | 0.47  | 0.00 | 0.34  |
| Col8 | 49 | 0.13  | 0.00 | 0.00  |
| Col8 | 50 | 0.13  | 0.00 | 0.00  |
| Col8 | 51 | 0.09  | 0.00 | 0.00  |
| Col8 | 52 | 0.09  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

| Id   | Load | Deflection(in) |       |
|------|------|----------------|-------|
|      | Id   | Calc           | Limit |
| Col2 | 1    | 0.00           | 1.00  |
| Col2 | 2    | 0.00           | 1.00  |
| Col2 | 3    | 0.00           | 1.00  |
| Col2 | 4    | 0.00           | 1.00  |
| Col2 | 5    | 0.00           | 1.00  |
| Col2 | 6    | 0.00           | 1.00  |
| Col2 | 7    | 0.00           | 1.00  |
| Col2 | 8    | -0.52          | 1.00  |
| Col2 | 9    | -0.52          | 1.00  |

|      |    |       |      |
|------|----|-------|------|
| Col2 | 10 | 0.58  | 1.00 |
| Col2 | 11 | 0.58  | 1.00 |
| Col2 | 12 | 0.58  | 1.00 |
| Col2 | 13 | 0.58  | 1.00 |
| Col2 | 14 | 0.58  | 1.00 |
| Col2 | 15 | 0.58  | 1.00 |
| Col2 | 16 | 0.44  | 1.00 |
| Col2 | 17 | 0.44  | 1.00 |
| Col2 | 18 | 0.44  | 1.00 |
| Col2 | 19 | 0.44  | 1.00 |
| Col2 | 20 | 0.44  | 1.00 |
| Col2 | 21 | 0.44  | 1.00 |
| Col2 | 22 | 0.44  | 1.00 |
| Col2 | 23 | 0.44  | 1.00 |
| Col2 | 24 | 0.44  | 1.00 |
| Col2 | 25 | 0.44  | 1.00 |
| Col2 | 26 | 0.44  | 1.00 |
| Col2 | 27 | 0.44  | 1.00 |
| Col2 | 28 | -0.52 | 1.00 |
| Col2 | 29 | -0.52 | 1.00 |
| Col2 | 30 | 0.58  | 1.00 |
| Col2 | 31 | 0.58  | 1.00 |
| Col2 | 32 | 0.58  | 1.00 |
| Col2 | 33 | 0.58  | 1.00 |
| Col2 | 34 | 0.58  | 1.00 |
| Col2 | 35 | 0.58  | 1.00 |
| Col2 | 36 | 0.00  | 1.00 |
| Col2 | 37 | 0.00  | 1.00 |
| Col2 | 38 | 0.00  | 1.00 |
| Col2 | 39 | 0.00  | 1.00 |
| Col2 | 40 | 0.00  | 1.00 |
| Col2 | 41 | 0.00  | 1.00 |
| Col2 | 42 | 0.00  | 1.00 |
| Col2 | 43 | 0.00  | 1.00 |
| Col2 | 44 | 0.00  | 1.00 |
| Col2 | 45 | 0.00  | 1.00 |
| Col2 | 46 | 0.00  | 1.00 |
| Col2 | 47 | 0.26  | 1.00 |
| Col2 | 48 | 0.26  | 1.00 |
| Col3 | 1  | 0.00  | 1.02 |
| Col3 | 2  | 0.00  | 1.02 |
| Col3 | 3  | 0.00  | 1.02 |
| Col3 | 4  | 0.00  | 1.02 |
| Col3 | 5  | 0.00  | 1.02 |
| Col3 | 6  | 0.00  | 1.02 |
| Col3 | 7  | 0.00  | 1.02 |
| Col3 | 8  | -0.55 | 1.02 |
| Col3 | 9  | -0.55 | 1.02 |
| Col3 | 10 | 0.60  | 1.02 |
| Col3 | 11 | 0.60  | 1.02 |
| Col3 | 12 | 0.60  | 1.02 |
| Col3 | 13 | 0.60  | 1.02 |
| Col3 | 14 | 0.60  | 1.02 |
| Col3 | 15 | 0.60  | 1.02 |
| Col3 | 16 | 0.45  | 1.02 |
| Col3 | 17 | 0.45  | 1.02 |
| Col3 | 18 | 0.45  | 1.02 |
| Col3 | 19 | 0.45  | 1.02 |
| Col3 | 20 | 0.45  | 1.02 |
| Col3 | 21 | 0.45  | 1.02 |
| Col3 | 22 | 0.45  | 1.02 |
| Col3 | 23 | 0.45  | 1.02 |
| Col3 | 24 | 0.45  | 1.02 |
| Col3 | 25 | 0.45  | 1.02 |
| Col3 | 26 | 0.45  | 1.02 |

|      |    |       |      |
|------|----|-------|------|
| Col3 | 27 | 0.45  | 1.02 |
| Col3 | 28 | -0.55 | 1.02 |
| Col3 | 29 | -0.55 | 1.02 |
| Col3 | 30 | 0.60  | 1.02 |
| Col3 | 31 | 0.60  | 1.02 |
| Col3 | 32 | 0.60  | 1.02 |
| Col3 | 33 | 0.60  | 1.02 |
| Col3 | 34 | 0.60  | 1.02 |
| Col3 | 35 | 0.60  | 1.02 |
| Col3 | 36 | 0.00  | 1.02 |
| Col3 | 37 | 0.00  | 1.02 |
| Col3 | 38 | 0.00  | 1.02 |
| Col3 | 39 | 0.00  | 1.02 |
| Col3 | 40 | 0.00  | 1.02 |
| Col3 | 41 | 0.00  | 1.02 |
| Col3 | 42 | 0.00  | 1.02 |
| Col3 | 43 | 0.00  | 1.02 |
| Col3 | 44 | 0.00  | 1.02 |
| Col3 | 45 | 0.00  | 1.02 |
| Col3 | 46 | 0.00  | 1.02 |
| Col3 | 47 | 0.27  | 1.02 |
| Col3 | 48 | 0.27  | 1.02 |
| Col4 | 1  | 0.00  | 1.03 |
| Col4 | 2  | 0.00  | 1.03 |
| Col4 | 3  | 0.00  | 1.03 |
| Col4 | 4  | 0.00  | 1.03 |
| Col4 | 5  | 0.00  | 1.03 |
| Col4 | 6  | 0.00  | 1.03 |
| Col4 | 7  | 0.00  | 1.03 |
| Col4 | 8  | -0.58 | 1.03 |
| Col4 | 9  | -0.58 | 1.03 |
| Col4 | 10 | 0.64  | 1.03 |
| Col4 | 11 | 0.64  | 1.03 |
| Col4 | 12 | 0.64  | 1.03 |
| Col4 | 13 | 0.64  | 1.03 |
| Col4 | 14 | 0.64  | 1.03 |
| Col4 | 15 | 0.64  | 1.03 |
| Col4 | 16 | 0.48  | 1.03 |
| Col4 | 17 | 0.48  | 1.03 |
| Col4 | 18 | 0.48  | 1.03 |
| Col4 | 19 | 0.48  | 1.03 |
| Col4 | 20 | 0.48  | 1.03 |
| Col4 | 21 | 0.48  | 1.03 |
| Col4 | 22 | 0.48  | 1.03 |
| Col4 | 23 | 0.48  | 1.03 |
| Col4 | 24 | 0.48  | 1.03 |
| Col4 | 25 | 0.48  | 1.03 |
| Col4 | 26 | 0.48  | 1.03 |
| Col4 | 27 | 0.48  | 1.03 |
| Col4 | 28 | -0.58 | 1.03 |
| Col4 | 29 | -0.58 | 1.03 |
| Col4 | 30 | 0.64  | 1.03 |
| Col4 | 31 | 0.64  | 1.03 |
| Col4 | 32 | 0.64  | 1.03 |
| Col4 | 33 | 0.64  | 1.03 |
| Col4 | 34 | 0.64  | 1.03 |
| Col4 | 35 | 0.64  | 1.03 |
| Col4 | 36 | 0.00  | 1.03 |
| Col4 | 37 | 0.00  | 1.03 |
| Col4 | 38 | 0.00  | 1.03 |
| Col4 | 39 | 0.00  | 1.03 |
| Col4 | 40 | 0.00  | 1.03 |
| Col4 | 41 | 0.00  | 1.03 |
| Col4 | 42 | 0.00  | 1.03 |
| Col4 | 43 | 0.00  | 1.03 |

|       |    |       |      |
|-------|----|-------|------|
| Col14 | 44 | 0.00  | 1.03 |
| Col14 | 45 | 0.00  | 1.03 |
| Col14 | 46 | 0.00  | 1.03 |
| Col14 | 47 | 0.29  | 1.03 |
| Col14 | 48 | 0.29  | 1.03 |
| Col15 | 1  | 0.00  | 1.04 |
| Col15 | 2  | 0.00  | 1.04 |
| Col15 | 3  | 0.00  | 1.04 |
| Col15 | 4  | 0.00  | 1.04 |
| Col15 | 5  | 0.00  | 1.04 |
| Col15 | 6  | 0.00  | 1.04 |
| Col15 | 7  | 0.00  | 1.04 |
| Col15 | 8  | -0.61 | 1.04 |
| Col15 | 9  | -0.61 | 1.04 |
| Col15 | 10 | 0.67  | 1.04 |
| Col15 | 11 | 0.67  | 1.04 |
| Col15 | 12 | 0.67  | 1.04 |
| Col15 | 13 | 0.67  | 1.04 |
| Col15 | 14 | 0.67  | 1.04 |
| Col15 | 15 | 0.67  | 1.04 |
| Col15 | 16 | 0.50  | 1.04 |
| Col15 | 17 | 0.50  | 1.04 |
| Col15 | 18 | 0.50  | 1.04 |
| Col15 | 19 | 0.50  | 1.04 |
| Col15 | 20 | 0.50  | 1.04 |
| Col15 | 21 | 0.50  | 1.04 |
| Col15 | 22 | 0.50  | 1.04 |
| Col15 | 23 | 0.50  | 1.04 |
| Col15 | 24 | 0.50  | 1.04 |
| Col15 | 25 | 0.50  | 1.04 |
| Col15 | 26 | 0.50  | 1.04 |
| Col15 | 27 | 0.50  | 1.04 |
| Col15 | 28 | -0.61 | 1.04 |
| Col15 | 29 | -0.61 | 1.04 |
| Col15 | 30 | 0.67  | 1.04 |
| Col15 | 31 | 0.67  | 1.04 |
| Col15 | 32 | 0.67  | 1.04 |
| Col15 | 33 | 0.67  | 1.04 |
| Col15 | 34 | 0.67  | 1.04 |
| Col15 | 35 | 0.67  | 1.04 |
| Col15 | 36 | 0.00  | 1.04 |
| Col15 | 37 | 0.00  | 1.04 |
| Col15 | 38 | 0.00  | 1.04 |
| Col15 | 39 | 0.00  | 1.04 |
| Col15 | 40 | 0.00  | 1.04 |
| Col15 | 41 | 0.00  | 1.04 |
| Col15 | 42 | 0.00  | 1.04 |
| Col15 | 43 | 0.00  | 1.04 |
| Col15 | 44 | 0.00  | 1.04 |
| Col15 | 45 | 0.00  | 1.04 |
| Col15 | 46 | 0.00  | 1.04 |
| Col15 | 47 | 0.30  | 1.04 |
| Col15 | 48 | 0.30  | 1.04 |
| Col16 | 1  | 0.00  | 1.06 |
| Col16 | 2  | 0.00  | 1.06 |
| Col16 | 3  | 0.00  | 1.06 |
| Col16 | 4  | 0.00  | 1.06 |
| Col16 | 5  | 0.00  | 1.06 |
| Col16 | 6  | 0.00  | 1.06 |
| Col16 | 7  | 0.00  | 1.06 |
| Col16 | 8  | -0.64 | 1.06 |
| Col16 | 9  | -0.64 | 1.06 |
| Col16 | 10 | 0.71  | 1.06 |
| Col16 | 11 | 0.71  | 1.06 |
| Col16 | 12 | 0.71  | 1.06 |

|      |    |       |      |
|------|----|-------|------|
| Col6 | 13 | 0.71  | 1.06 |
| Col6 | 14 | 0.71  | 1.06 |
| Col6 | 15 | 0.71  | 1.06 |
| Col6 | 16 | 0.53  | 1.06 |
| Col6 | 17 | 0.53  | 1.06 |
| Col6 | 18 | 0.53  | 1.06 |
| Col6 | 19 | 0.53  | 1.06 |
| Col6 | 20 | 0.53  | 1.06 |
| Col6 | 21 | 0.53  | 1.06 |
| Col6 | 22 | 0.53  | 1.06 |
| Col6 | 23 | 0.53  | 1.06 |
| Col6 | 24 | 0.53  | 1.06 |
| Col6 | 25 | 0.53  | 1.06 |
| Col6 | 26 | 0.53  | 1.06 |
| Col6 | 27 | 0.53  | 1.06 |
| Col6 | 28 | -0.64 | 1.06 |
| Col6 | 29 | -0.64 | 1.06 |
| Col6 | 30 | 0.71  | 1.06 |
| Col6 | 31 | 0.71  | 1.06 |
| Col6 | 32 | 0.71  | 1.06 |
| Col6 | 33 | 0.71  | 1.06 |
| Col6 | 34 | 0.71  | 1.06 |
| Col6 | 35 | 0.71  | 1.06 |
| Col6 | 36 | 0.00  | 1.06 |
| Col6 | 37 | 0.00  | 1.06 |
| Col6 | 38 | 0.00  | 1.06 |
| Col6 | 39 | 0.00  | 1.06 |
| Col6 | 40 | 0.00  | 1.06 |
| Col6 | 41 | 0.00  | 1.06 |
| Col6 | 42 | 0.00  | 1.06 |
| Col6 | 43 | 0.00  | 1.06 |
| Col6 | 44 | 0.00  | 1.06 |
| Col6 | 45 | 0.00  | 1.06 |
| Col6 | 46 | 0.00  | 1.06 |
| Col6 | 47 | 0.32  | 1.06 |
| Col6 | 48 | 0.32  | 1.06 |
| Col7 | 1  | 0.00  | 1.07 |
| Col7 | 2  | 0.00  | 1.07 |
| Col7 | 3  | 0.00  | 1.07 |
| Col7 | 4  | 0.00  | 1.07 |
| Col7 | 5  | 0.00  | 1.07 |
| Col7 | 6  | 0.00  | 1.07 |
| Col7 | 7  | 0.00  | 1.07 |
| Col7 | 8  | -0.68 | 1.07 |
| Col7 | 9  | -0.68 | 1.07 |
| Col7 | 10 | 0.75  | 1.07 |
| Col7 | 11 | 0.75  | 1.07 |
| Col7 | 12 | 0.75  | 1.07 |
| Col7 | 13 | 0.75  | 1.07 |
| Col7 | 14 | 0.75  | 1.07 |
| Col7 | 15 | 0.75  | 1.07 |
| Col7 | 16 | 0.56  | 1.07 |
| Col7 | 17 | 0.56  | 1.07 |
| Col7 | 18 | 0.56  | 1.07 |
| Col7 | 19 | 0.56  | 1.07 |
| Col7 | 20 | 0.56  | 1.07 |
| Col7 | 21 | 0.56  | 1.07 |
| Col7 | 22 | 0.56  | 1.07 |
| Col7 | 23 | 0.56  | 1.07 |
| Col7 | 24 | 0.56  | 1.07 |
| Col7 | 25 | 0.56  | 1.07 |
| Col7 | 26 | 0.56  | 1.07 |
| Col7 | 27 | 0.56  | 1.07 |
| Col7 | 28 | -0.68 | 1.07 |
| Col7 | 29 | -0.68 | 1.07 |

|      |    |       |      |
|------|----|-------|------|
| Col7 | 30 | 0.75  | 1.07 |
| Col7 | 31 | 0.75  | 1.07 |
| Col7 | 32 | 0.75  | 1.07 |
| Col7 | 33 | 0.75  | 1.07 |
| Col7 | 34 | 0.75  | 1.07 |
| Col7 | 35 | 0.75  | 1.07 |
| Col7 | 36 | 0.00  | 1.07 |
| Col7 | 37 | 0.00  | 1.07 |
| Col7 | 38 | 0.00  | 1.07 |
| Col7 | 39 | 0.00  | 1.07 |
| Col7 | 40 | 0.00  | 1.07 |
| Col7 | 41 | 0.00  | 1.07 |
| Col7 | 42 | 0.00  | 1.07 |
| Col7 | 43 | 0.00  | 1.07 |
| Col7 | 44 | 0.00  | 1.07 |
| Col7 | 45 | 0.00  | 1.07 |
| Col7 | 46 | 0.00  | 1.07 |
| Col7 | 47 | 0.34  | 1.07 |
| Col7 | 48 | 0.34  | 1.07 |
| Col8 | 1  | 0.00  | 1.09 |
| Col8 | 2  | 0.00  | 1.09 |
| Col8 | 3  | 0.00  | 1.09 |
| Col8 | 4  | 0.00  | 1.09 |
| Col8 | 5  | 0.00  | 1.09 |
| Col8 | 6  | 0.00  | 1.09 |
| Col8 | 7  | 0.00  | 1.09 |
| Col8 | 8  | -0.71 | 1.09 |
| Col8 | 9  | -0.71 | 1.09 |
| Col8 | 10 | 0.80  | 1.09 |
| Col8 | 11 | 0.80  | 1.09 |
| Col8 | 12 | 0.80  | 1.09 |
| Col8 | 13 | 0.80  | 1.09 |
| Col8 | 14 | 0.80  | 1.09 |
| Col8 | 15 | 0.80  | 1.09 |
| Col8 | 16 | 0.60  | 1.09 |
| Col8 | 17 | 0.60  | 1.09 |
| Col8 | 18 | 0.60  | 1.09 |
| Col8 | 19 | 0.60  | 1.09 |
| Col8 | 20 | 0.60  | 1.09 |
| Col8 | 21 | 0.60  | 1.09 |
| Col8 | 22 | 0.60  | 1.09 |
| Col8 | 23 | 0.60  | 1.09 |
| Col8 | 24 | 0.60  | 1.09 |
| Col8 | 25 | 0.60  | 1.09 |
| Col8 | 26 | 0.60  | 1.09 |
| Col8 | 27 | 0.60  | 1.09 |
| Col8 | 28 | -0.71 | 1.09 |
| Col8 | 29 | -0.71 | 1.09 |
| Col8 | 30 | 0.80  | 1.09 |
| Col8 | 31 | 0.80  | 1.09 |
| Col8 | 32 | 0.80  | 1.09 |
| Col8 | 33 | 0.80  | 1.09 |
| Col8 | 34 | 0.80  | 1.09 |
| Col8 | 35 | 0.80  | 1.09 |
| Col8 | 36 | 0.00  | 1.09 |
| Col8 | 37 | 0.00  | 1.09 |
| Col8 | 38 | 0.00  | 1.09 |
| Col8 | 39 | 0.00  | 1.09 |
| Col8 | 40 | 0.00  | 1.09 |
| Col8 | 41 | 0.00  | 1.09 |
| Col8 | 42 | 0.00  | 1.09 |
| Col8 | 43 | 0.00  | 1.09 |
| Col8 | 44 | 0.00  | 1.09 |
| Col8 | 45 | 0.00  | 1.09 |
| Col8 | 46 | 0.00  | 1.09 |

|      |    |      |      |
|------|----|------|------|
| Col8 | 47 | 0.36 | 1.09 |
| Col8 | 48 | 0.36 | 1.09 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id   | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|      |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col2 | 15.0          | 4.0            | 4.0   | 78           | 65    | 0.00                             | 0.00 |
| Col3 | 15.3          | 4.3            | 4.3   | 79           | 68    | 0.00                             | 0.00 |
| Col4 | 15.5          | 4.5            | 4.5   | 80           | 72    | 0.00                             | 0.00 |
| Col5 | 15.7          | 4.7            | 4.7   | 81           | 75    | 0.00                             | 0.00 |
| Col6 | 15.9          | 4.9            | 4.9   | 82           | 79    | 0.00                             | 0.00 |
| Col7 | 16.1          | 5.1            | 5.1   | 83           | 82    | 0.00                             | 0.00 |
| Col8 | 16.3          | 5.3            | 5.3   | 85           | 85    | 0.00                             | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 1      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 2      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 3      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 4      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 5      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 6      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 7      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 8      | 1       | 3.667  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.625         | 0.00                       | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k) - |       | Moment(f-k) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|-------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc        | Limit |        | Calc        | Limit |
| 1      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.08       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
| 2      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
| 3      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
| 4      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
| 5      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.12        | 2.65  | 0.04   | 0.00        | 0.60  |
| 6      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.05   | 0.00        | 0.60  |
| 7      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |

|   |   |    |       |      |       |      |      |      |      |
|---|---|----|-------|------|-------|------|------|------|------|
|   | 3 | WP | -0.10 | 3.32 | -0.11 | 2.65 | 0.04 | 0.00 | 0.60 |
|   |   | WS | 0.11  | 3.32 | 0.12  | 2.65 | 0.05 | 0.00 | 0.60 |
| 8 | 1 | WP | -0.08 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.62 |
|   |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.62 |
|   | 3 | WP | -0.10 | 3.32 | -0.12 | 2.65 | 0.05 | 0.00 | 0.62 |
|   |   | WS | 0.12  | 3.32 | 0.14  | 2.65 | 0.05 | 0.00 | 0.62 |

WP - Wind\_Pressure

WS - Wind\_Suction

```
=====
T                               Left EW - Wall Panel Design                               2/13/23 10:19am
=====
```

PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| --- | -----   | ---- | ----- | ----- |
| 8   | CUSPANL | CP   | 20.00 | 50.0  |

MOMENTS & DEFLECTION:

|      |             | -----Moment (ft-lb/ft)----- |      |       |       |         |       |       |       |       |              |       |  |
|------|-------------|-----------------------------|------|-------|-------|---------|-------|-------|-------|-------|--------------|-------|--|
| Span | Locate (ft) |                             |      | Start |       | Midspan |       | End   |       | Max   | Deflect (in) |       |  |
| Id   | Start       | End                         | Load | Calc  | Limit | Calc    | Limit | Calc  | Limit | UC    | Calc         | Limit |  |
| ---- | -----       | -----                       | ---- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----        | ----- |  |
| 1    | 0.00        | 3.67                        | WP   | 0.0   | 38.1  | -12.4   | 49.1  | 18.7  | 38.1  | 0.49  | -0.10        | 0.73  |  |
|      |             |                             | WS   | 0.0   | 38.1  | 16.5    | 38.1  | -25.0 | 49.1  | 0.51  | 0.13         | 0.73  |  |
| 2    | 3.67        | 7.33                        | WP   | 18.7  | 38.1  | -7.8    | 49.1  | 7.7   | 38.1  | 0.49  | -0.05        | 0.73  |  |
|      |             |                             | WS   | -25.0 | 49.1  | 10.4    | 38.1  | -10.3 | 49.1  | 0.51  | 0.07         | 0.73  |  |
| 3    | 7.33        | 11.00                       | WP   | 7.7   | 38.1  | -2.2    | 49.1  | 33.0  | 38.1  | 0.87  | 0.04         | 0.73  |  |
|      |             |                             | WS   | -10.3 | 49.1  | 3.0     | 38.1  | -43.9 | 49.1  | 0.89  | -0.05        | 0.73  |  |
| 4    | 11.00       | 16.35                       | WP   | 33.0  | 38.1  | -29.1   | 49.1  | 0.0   | 38.1  | 0.87  | -0.56        | 1.07  |  |
|      |             |                             | WS   | -43.9 | 49.1  | 38.8    | 38.1  | 0.0   | 38.1  | 1.02  | 0.74         | 1.07  |  |

WP - Wind\_Pressure

WS - Wind\_Suction

---

T Left EW - Panel Zones 2/13/23 10:19am

PANEL:

GIRT SCREWS:

PANEL ZONE LAYOUT:

GIRT SCREW CHECK:

|   |                                   |                 |
|---|-----------------------------------|-----------------|
| T | Front SW - Column & Rafter Design | 2/13/23 10:19am |
|---|-----------------------------------|-----------------|

# WALL LAYOUT:

| Wall<br>Id | Orn | Load<br>Width |
|------------|-----|---------------|
| 2          | L   | 2.50          |

# MEMBER LAYOUT:

| Id     | Locate |        | ---Web(in)-- |       | -Flange(in)- |       | Length<br>(ft) | Weight<br>(lb) | ----Max_Load---- |      |         |
|--------|--------|--------|--------------|-------|--------------|-------|----------------|----------------|------------------|------|---------|
|        | (ft)   | Part   | Depth        | Thick | Width        | Thick |                |                | Id               | UC   | Report  |
| Col10  | 0.0    | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 17               | 0.10 | Mom+Axl |
| Col11  | 14.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col12  | 28.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col13  | 42.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col14  | 56.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col15  | 70.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col16  | 84.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col17  | 98.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 1                | 0.09 | Mom+Axl |
| Col18  | 112.0  | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.5           | 36.0           | 17               | 0.10 | Mom+Axl |
| Raf1   |        | PB6EC  | 6.13         | 16ga  | 2.06         | 16ga  | 28.0           | 58.8           |                  |      |         |
| Raf2   |        | PB6EC  | 6.13         | 16ga  | 2.06         | 16ga  | 28.0           | 58.8           |                  |      |         |
| Raf3   |        | PB6EC  | 6.13         | 16ga  | 2.06         | 16ga  | 28.0           | 58.8           |                  |      |         |
| Raf4   |        | PB6EC  | 6.13         | 16ga  | 2.06         | 16ga  | 28.0           | 58.8           |                  |      |         |
| Total= |        |        |              |       |              |       |                | 559.6          |                  |      |         |

# DESIGN ACTIONS/STRENGTH:

| Id    | Load<br>Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity_Check----- |       |        |        |
|-------|------------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|--------|--------|
|       |            | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Moment | Shear+ |
| Col10 | 1          | 0.44        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.06                  | 0.00  | 0.06   | 0.00   |
| Col10 | 2          | 0.09        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.01                  | 0.00  | 0.01   | 0.00   |
| Col10 | 3          | 0.33        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col10 | 4          | 0.33        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col10 | 5          | 0.36        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.05                  | 0.00  | 0.05   | 0.00   |
| Col10 | 6          | 0.27        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col10 | 7          | 0.27        | 7.32  | 0.00        | 3.32  | 0.00         | 2.65  | 0.04                  | 0.00  | 0.04   | 0.00   |
| Col10 | 8          | -0.13       | 21.18 | 0.04        | 3.32  | -0.17        | 2.65  | 0.01                  | 0.01  | 0.06   | 0.00   |
| Col10 | 9          | -0.04       | 21.18 | 0.04        | 3.32  | -0.17        | 2.65  | 0.00                  | 0.01  | 0.06   | 0.00   |
| Col10 | 10         | -0.13       | 21.18 | -0.05       | 3.32  | 0.20         | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col10 | 11         | -0.04       | 21.18 | -0.05       | 3.32  | 0.20         | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col10 | 12         | -0.13       | 21.18 | -0.05       | 3.32  | 0.20         | 2.65  | 0.01                  | 0.01  | 0.07   | 0.00   |
| Col10 | 13         | -0.04       | 21.18 | -0.05       | 3.32  | 0.20         | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col10 | 14         | -0.05       | 21.18 | -0.05       | 3.32  | 0.20         | 2.65  | 0.00                  | 0.01  | 0.07   | 0.00   |
| Col10 | 15         | 0.03        | 7.32  | -0.05       | 3.32  | 0.20         | 2.65  | 0.00                  | 0.01  | 0.08   | 0.00   |
| Col10 | 16         | 0.25        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.03                  | 0.01  | 0.09   | 0.00   |
| Col10 | 17         | 0.32        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.04                  | 0.01  | 0.10   | 0.00   |
| Col10 | 18         | 0.20        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.03                  | 0.01  | 0.08   | 0.00   |
| Col10 | 19         | 0.26        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.04                  | 0.01  | 0.09   | 0.00   |
| Col10 | 20         | 0.17        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col10 | 21         | 0.23        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.03                  | 0.01  | 0.09   | 0.00   |
| Col10 | 22         | 0.11        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col10 | 23         | 0.18        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col10 | 24         | 0.17        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |
| Col10 | 25         | 0.23        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.03                  | 0.01  | 0.09   | 0.00   |
| Col10 | 26         | 0.11        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.02                  | 0.01  | 0.07   | 0.00   |
| Col10 | 27         | 0.18        | 7.32  | -0.04       | 3.32  | 0.15         | 2.65  | 0.02                  | 0.01  | 0.08   | 0.00   |



|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col11 | 41 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col11 | 42 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col11 | 43 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col11 | 44 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col11 | 45 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col11 | 46 | 0.71  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col11 | 47 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col11 | 48 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col11 | 49 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 50 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col11 | 51 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col11 | 52 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 1  | 0.85  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col12 | 2  | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 3  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col12 | 4  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col12 | 5  | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col12 | 6  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col12 | 7  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col12 | 8  | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 9  | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 10 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 11 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 12 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 13 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 14 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col12 | 15 | 0.03  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col12 | 16 | 0.47  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col12 | 17 | 0.60  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col12 | 18 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col12 | 19 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col12 | 20 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col12 | 21 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col12 | 22 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col12 | 23 | 0.32  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col12 | 24 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col12 | 25 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col12 | 26 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 |      |      |      |      |      |

|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col13 | 2  | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 3  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 4  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 5  | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col13 | 6  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col13 | 7  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col13 | 8  | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 9  | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 10 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 11 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 12 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 13 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 14 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 15 | 0.03  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col13 | 16 | 0.47  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col13 | 17 | 0.60  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col13 | 18 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col13 | 19 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col13 | 20 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col13 | 21 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col13 | 22 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 23 | 0.32  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col13 | 24 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col13 | 25 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col13 | 26 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 27 | 0.32  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col13 | 28 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 29 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 30 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 31 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 32 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 33 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 34 | -0.17 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col13 | 35 | 0.00  | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col13 | 36 | 0.16  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 37 | 0.16  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col13 | 38 | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col13 | 39 | 0.68  | 9.80  | 0.00 | 3.32 |      |      |      |      |      |      |

|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col14 | 15 | 0.03  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col14 | 16 | 0.47  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 17 | 0.60  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col14 | 18 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col14 | 19 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 20 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col14 | 21 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col14 | 22 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 23 | 0.32  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col14 | 24 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col14 | 25 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col14 | 26 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 27 | 0.32  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col14 | 28 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 29 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 30 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 31 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 32 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 33 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 34 | -0.17 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 35 | 0.00  | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col14 | 36 | 0.16  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 37 | 0.16  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 38 | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col14 | 39 | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col14 | 40 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 41 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 42 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 43 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 44 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 45 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 46 | 0.71  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col14 | 47 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col14 | 48 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col14 | 49 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 50 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col14 | 51 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col14 | 52 | 0.11  | 9.80  | 0.00 | 3.32 |      |      |      |      |      |      |

|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col15 | 28 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 29 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 30 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 31 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 32 | -0.32 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 33 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 34 | -0.17 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 35 | 0.00  | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col15 | 36 | 0.16  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 37 | 0.16  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 38 | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col15 | 39 | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col15 | 40 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 41 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 42 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 43 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 44 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 45 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 46 | 0.71  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col15 | 47 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col15 | 48 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col15 | 49 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 50 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col15 | 51 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col15 | 52 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 1  | 0.85  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col16 | 2  | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 3  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 4  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col16 | 5  | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col16 | 6  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 7  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 8  | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 9  | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 10 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 11 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 12 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 13 | -0.12 | 21.18 | 0.00 | 3.32 | 0    |      |      |      |      |      |

|       |    |       |       |      |      |      |      |      |      |      |      |
|-------|----|-------|-------|------|------|------|------|------|------|------|------|
| Col16 | 41 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 42 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 43 | 0.51  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 44 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 45 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 46 | 0.71  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col16 | 47 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col16 | 48 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col16 | 49 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 50 | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col16 | 51 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col16 | 52 | 0.11  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 1  | 0.85  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col17 | 2  | 0.15  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 3  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col17 | 4  | 0.62  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col17 | 5  | 0.68  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col17 | 6  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 7  | 0.50  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 8  | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 9  | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 10 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 11 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 12 | -0.29 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 13 | -0.12 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 14 | -0.14 | 21.18 | 0.00 | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col17 | 15 | 0.03  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col17 | 16 | 0.47  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 17 | 0.60  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col17 | 18 | 0.36  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 19 | 0.49  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col17 | 20 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col17 | 21 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 22 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col17 | 23 | 0.32  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col17 | 24 | 0.30  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col17 | 25 | 0.42  | 9.80  | 0.00 | 3.32 | 0.00 | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col17 | 26 | 0.19  | 9.80  | 0.00 | 3.32 | 0.00 |      |      |      |      |      |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col18 | 2  | 0.09  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 3  | 0.33  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 4  | 0.33  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 5  | 0.36  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col18 | 6  | 0.27  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 7  | 0.27  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 8  | -0.13 | 21.18 | 0.04  | 3.32 | -0.17 | 2.65 | 0.01 | 0.01 | 0.06 | 0.00 |
| Col18 | 9  | -0.04 | 21.18 | 0.04  | 3.32 | -0.17 | 2.65 | 0.00 | 0.01 | 0.06 | 0.00 |
| Col18 | 10 | -0.13 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col18 | 11 | -0.04 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col18 | 12 | -0.13 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col18 | 13 | -0.04 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col18 | 14 | -0.05 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col18 | 15 | 0.03  | 7.32  | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.08 | 0.00 |
| Col18 | 16 | 0.25  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col18 | 17 | 0.32  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.04 | 0.01 | 0.10 | 0.00 |
| Col18 | 18 | 0.20  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col18 | 19 | 0.26  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.04 | 0.01 | 0.09 | 0.00 |
| Col18 | 20 | 0.17  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col18 | 21 | 0.23  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col18 | 22 | 0.11  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col18 | 23 | 0.18  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col18 | 24 | 0.17  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col18 | 25 | 0.23  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.03 | 0.01 | 0.09 | 0.00 |
| Col18 | 26 | 0.11  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.02 | 0.01 | 0.07 | 0.00 |
| Col18 | 27 | 0.18  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.02 | 0.01 | 0.08 | 0.00 |
| Col18 | 28 | -0.14 | 21.18 | 0.04  | 3.32 | -0.17 | 2.65 | 0.01 | 0.01 | 0.06 | 0.00 |
| Col18 | 29 | -0.05 | 21.18 | 0.04  | 3.32 | -0.17 | 2.65 | 0.00 | 0.01 | 0.06 | 0.00 |
| Col18 | 30 | -0.14 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col18 | 31 | -0.05 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col18 | 32 | -0.14 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.01 | 0.01 | 0.07 | 0.00 |
| Col18 | 33 | -0.05 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col18 | 34 | -0.07 | 21.18 | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.07 | 0.00 |
| Col18 | 35 | 0.02  | 7.32  | -0.05 | 3.32 | 0.20  | 2.65 | 0.00 | 0.01 | 0.08 | 0.00 |
| Col18 | 36 | 0.10  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 37 | 0.10  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 38 | 0.36  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col18 | 39 | 0.36  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col18 | 40 | 0.27  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 41 | 0.27  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 42 | 0.27  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 43 | 0.27  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col18 | 44 | 0.07  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 45 | 0.07  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 46 | 0.37  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.05 | 0.00 | 0.05 | 0.00 |
| Col18 | 47 | 0.20  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.03 | 0.01 | 0.08 | 0.00 |
| Col18 | 48 | 0.26  | 7.32  | -0.04 | 3.32 | 0.15  | 2.65 | 0.04 | 0.01 | 0.09 | 0.00 |
| Col18 | 49 | 0.09  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 50 | 0.09  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 51 | 0.07  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col18 | 52 | 0.07  | 7.32  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|      |    |      |      |      |      |      |      |      |      |      |      |
|------|----|------|------|------|------|------|------|------|------|------|------|
| Raf1 | 1  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 2  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 3  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 4  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 5  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 6  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 7  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 8  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 9  | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 10 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 11 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 12 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf1 | 13 | 0.00 | 5.27 | 0.00 | 3.77 | 0.00 | 1.71 | 0.00 | 0.00 | 0.00 | 0.00 |

[illegible]

[illegible]

[illegible]

COLUMN REACTIONS:

| Id | Load |          | In_Plane | Out_Plane |
|----|------|----------|----------|-----------|
|    | Id   | Vert(k ) | Horz(k ) | Horz(k )  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col10 | 1  | 0.44  | 0.00 | 0.00  |
| Col10 | 2  | 0.09  | 0.00 | 0.00  |
| Col10 | 3  | 0.33  | 0.00 | 0.00  |
| Col10 | 4  | 0.33  | 0.00 | 0.00  |
| Col10 | 5  | 0.36  | 0.00 | 0.00  |
| Col10 | 6  | 0.27  | 0.00 | 0.00  |
| Col10 | 7  | 0.27  | 0.00 | 0.00  |
| Col10 | 8  | -0.13 | 0.00 | -0.04 |
| Col10 | 9  | -0.04 | 0.00 | -0.04 |
| Col10 | 10 | -0.13 | 0.00 | 0.05  |
| Col10 | 11 | -0.04 | 0.00 | 0.05  |
| Col10 | 12 | -0.13 | 0.00 | 0.05  |
| Col10 | 13 | -0.04 | 0.00 | 0.05  |
| Col10 | 14 | -0.05 | 0.00 | 0.05  |
| Col10 | 15 | 0.03  | 0.00 | 0.05  |
| Col10 | 16 | 0.25  | 0.00 | 0.04  |
| Col10 | 17 | 0.32  | 0.00 | 0.04  |
| Col10 | 18 | 0.20  | 0.00 | 0.04  |
| Col10 | 19 | 0.26  | 0.00 | 0.04  |
| Col10 | 20 | 0.17  | 0.00 | 0.04  |
| Col10 | 21 | 0.23  | 0.00 | 0.04  |
| Col10 | 22 | 0.11  | 0.00 | 0.04  |
| Col10 | 23 | 0.18  | 0.00 | 0.04  |
| Col10 | 24 | 0.17  | 0.00 | 0.04  |
| Col10 | 25 | 0.23  | 0.00 | 0.04  |
| Col10 | 26 | 0.11  | 0.00 | 0.04  |
| Col10 | 27 | 0.18  | 0.00 | 0.04  |
| Col10 | 28 | -0.14 | 0.00 | -0.04 |
| Col10 | 29 | -0.05 | 0.00 | -0.04 |
| Col10 | 30 | -0.14 | 0.00 | 0.05  |
| Col10 | 31 | -0.05 | 0.00 | 0.05  |
| Col10 | 32 | -0.14 | 0.00 | 0.05  |
| Col10 | 33 | -0.05 | 0.00 | 0.05  |
| Col10 | 34 | -0.07 | 0.00 | 0.05  |
| Col10 | 35 | 0.02  | 0.00 | 0.05  |
| Col10 | 36 | 0.10  | 0.00 | 0.00  |
| Col10 | 37 | 0.10  | 0.00 | 0.00  |
| Col10 | 38 | 0.36  | 0.00 | 0.00  |
| Col10 | 39 | 0.36  | 0.00 | 0.00  |
| Col10 | 40 | 0.27  | 0.00 | 0.00  |
| Col10 | 41 | 0.27  | 0.00 | 0.00  |
| Col10 | 42 | 0.27  | 0.00 | 0.00  |
| Col10 | 43 | 0.27  | 0.00 | 0.00  |
| Col10 | 44 | 0.07  | 0.00 | 0.00  |
| Col10 | 45 | 0.07  | 0.00 | 0.00  |
| Col10 | 46 | 0.37  | 0.00 | 0.00  |
| Col10 | 47 | 0.20  | 0.00 | 0.04  |
| Col10 | 48 | 0.26  | 0.00 | 0.04  |
| Col10 | 49 | 0.09  | 0.00 | 0.00  |
| Col10 | 50 | 0.09  | 0.00 | 0.00  |
| Col10 | 51 | 0.07  | 0.00 | 0.00  |
| Col10 | 52 | 0.07  | 0.00 | 0.00  |
| Col11 | 1  | 0.85  | 0.00 | 0.00  |
| Col11 | 2  | 0.15  | 0.00 | 0.00  |
| Col11 | 3  | 0.62  | 0.00 | 0.00  |
| Col11 | 4  | 0.62  | 0.00 | 0.00  |
| Col11 | 5  | 0.68  | 0.00 | 0.00  |
| Col11 | 6  | 0.50  | 0.00 | 0.00  |
| Col11 | 7  | 0.50  | 0.00 | 0.00  |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col11 | 8  | -0.29 | 0.00 | 0.00 |
| Col11 | 9  | -0.12 | 0.00 | 0.00 |
| Col11 | 10 | -0.29 | 0.00 | 0.00 |
| Col11 | 11 | -0.12 | 0.00 | 0.00 |
| Col11 | 12 | -0.29 | 0.00 | 0.00 |
| Col11 | 13 | -0.12 | 0.00 | 0.00 |
| Col11 | 14 | -0.14 | 0.00 | 0.00 |
| Col11 | 15 | 0.03  | 0.00 | 0.00 |
| Col11 | 16 | 0.47  | 0.00 | 0.00 |
| Col11 | 17 | 0.60  | 0.00 | 0.00 |
| Col11 | 18 | 0.36  | 0.00 | 0.00 |
| Col11 | 19 | 0.49  | 0.00 | 0.00 |
| Col11 | 20 | 0.30  | 0.00 | 0.00 |
| Col11 | 21 | 0.42  | 0.00 | 0.00 |
| Col11 | 22 | 0.19  | 0.00 | 0.00 |
| Col11 | 23 | 0.32  | 0.00 | 0.00 |
| Col11 | 24 | 0.30  | 0.00 | 0.00 |
| Col11 | 25 | 0.42  | 0.00 | 0.00 |
| Col11 | 26 | 0.19  | 0.00 | 0.00 |
| Col11 | 27 | 0.32  | 0.00 | 0.00 |
| Col11 | 28 | -0.32 | 0.00 | 0.00 |
| Col11 | 29 | -0.14 | 0.00 | 0.00 |
| Col11 | 30 | -0.32 | 0.00 | 0.00 |
| Col11 | 31 | -0.14 | 0.00 | 0.00 |
| Col11 | 32 | -0.32 | 0.00 | 0.00 |
| Col11 | 33 | -0.14 | 0.00 | 0.00 |
| Col11 | 34 | -0.17 | 0.00 | 0.00 |
| Col11 | 35 | 0.00  | 0.00 | 0.00 |
| Col11 | 36 | 0.16  | 0.00 | 0.00 |
| Col11 | 37 | 0.16  | 0.00 | 0.00 |
| Col11 | 38 | 0.68  | 0.00 | 0.00 |
| Col11 | 39 | 0.68  | 0.00 | 0.00 |
| Col11 | 40 | 0.51  | 0.00 | 0.00 |
| Col11 | 41 | 0.51  | 0.00 | 0.00 |
| Col11 | 42 | 0.51  | 0.00 | 0.00 |
| Col11 | 43 | 0.51  | 0.00 | 0.00 |
| Col11 | 44 | 0.11  | 0.00 | 0.00 |
| Col11 | 45 | 0.11  | 0.00 | 0.00 |
| Col11 | 46 | 0.71  | 0.00 | 0.00 |
| Col11 | 47 | 0.36  | 0.00 | 0.00 |
| Col11 | 48 | 0.49  | 0.00 | 0.00 |
| Col11 | 49 | 0.15  | 0.00 | 0.00 |
| Col11 | 50 | 0.15  | 0.00 | 0.00 |
| Col11 | 51 | 0.11  | 0.00 | 0.00 |
| Col11 | 52 | 0.11  | 0.00 | 0.00 |
| Col12 | 1  | 0.85  | 0.00 | 0.00 |
| Col12 | 2  | 0.15  | 0.00 | 0.00 |
| Col12 | 3  | 0.62  | 0.00 | 0.00 |
| Col12 | 4  | 0.62  | 0.00 | 0.00 |
| Col12 | 5  | 0.68  | 0.00 | 0.00 |
| Col12 | 6  | 0.50  | 0.00 | 0.00 |
| Col12 | 7  | 0.50  | 0.00 | 0.00 |
| Col12 | 8  | -0.29 | 0.00 | 0.00 |
| Col12 | 9  | -0.12 | 0.00 | 0.00 |
| Col12 | 10 | -0.29 | 0.00 | 0.00 |
| Col12 | 11 | -0.12 | 0.00 | 0.00 |
| Col12 | 12 | -0.29 | 0.00 | 0.00 |
| Col12 | 13 | -0.12 | 0.00 | 0.00 |
| Col12 | 14 | -0.14 | 0.00 | 0.00 |
| Col12 | 15 | 0.03  | 0.00 | 0.00 |
| Col12 | 16 | 0.47  | 0.00 | 0.00 |
| Col12 | 17 | 0.60  | 0.00 | 0.00 |
| Col12 | 18 | 0.36  | 0.00 | 0.00 |
| Col12 | 19 | 0.49  | 0.00 | 0.00 |
| Col12 | 20 | 0.30  | 0.00 | 0.00 |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col12 | 21 | 0.42  | 0.00 | 0.00 |
| Col12 | 22 | 0.19  | 0.00 | 0.00 |
| Col12 | 23 | 0.32  | 0.00 | 0.00 |
| Col12 | 24 | 0.30  | 0.00 | 0.00 |
| Col12 | 25 | 0.42  | 0.00 | 0.00 |
| Col12 | 26 | 0.19  | 0.00 | 0.00 |
| Col12 | 27 | 0.32  | 0.00 | 0.00 |
| Col12 | 28 | -0.32 | 0.00 | 0.00 |
| Col12 | 29 | -0.14 | 0.00 | 0.00 |
| Col12 | 30 | -0.32 | 0.00 | 0.00 |
| Col12 | 31 | -0.14 | 0.00 | 0.00 |
| Col12 | 32 | -0.32 | 0.00 | 0.00 |
| Col12 | 33 | -0.14 | 0.00 | 0.00 |
| Col12 | 34 | -0.17 | 0.00 | 0.00 |
| Col12 | 35 | 0.00  | 0.00 | 0.00 |
| Col12 | 36 | 0.16  | 0.00 | 0.00 |
| Col12 | 37 | 0.16  | 0.00 | 0.00 |
| Col12 | 38 | 0.68  | 0.00 | 0.00 |
| Col12 | 39 | 0.68  | 0.00 | 0.00 |
| Col12 | 40 | 0.51  | 0.00 | 0.00 |
| Col12 | 41 | 0.51  | 0.00 | 0.00 |
| Col12 | 42 | 0.51  | 0.00 | 0.00 |
| Col12 | 43 | 0.51  | 0.00 | 0.00 |
| Col12 | 44 | 0.11  | 0.00 | 0.00 |
| Col12 | 45 | 0.11  | 0.00 | 0.00 |
| Col12 | 46 | 0.71  | 0.00 | 0.00 |
| Col12 | 47 | 0.36  | 0.00 | 0.00 |
| Col12 | 48 | 0.49  | 0.00 | 0.00 |
| Col12 | 49 | 0.15  | 0.00 | 0.00 |
| Col12 | 50 | 0.15  | 0.00 | 0.00 |
| Col12 | 51 | 0.11  | 0.00 | 0.00 |
| Col12 | 52 | 0.11  | 0.00 | 0.00 |
| Col13 | 1  | 0.85  | 0.00 | 0.00 |
| Col13 | 2  | 0.15  | 0.00 | 0.00 |
| Col13 | 3  | 0.62  | 0.00 | 0.00 |
| Col13 | 4  | 0.62  | 0.00 | 0.00 |
| Col13 | 5  | 0.68  | 0.00 | 0.00 |
| Col13 | 6  | 0.50  | 0.00 | 0.00 |
| Col13 | 7  | 0.50  | 0.00 | 0.00 |
| Col13 | 8  | -0.29 | 0.00 | 0.00 |
| Col13 | 9  | -0.12 | 0.00 | 0.00 |
| Col13 | 10 | -0.29 | 0.00 | 0.00 |
| Col13 | 11 | -0.12 | 0.00 | 0.00 |
| Col13 | 12 | -0.29 | 0.00 | 0.00 |
| Col13 | 13 | -0.12 | 0.00 | 0.00 |
| Col13 | 14 | -0.14 | 0.00 | 0.00 |
| Col13 | 15 | 0.03  | 0.00 | 0.00 |
| Col13 | 16 | 0.47  | 0.00 | 0.00 |
| Col13 | 17 | 0.60  | 0.00 | 0.00 |
| Col13 | 18 | 0.36  | 0.00 | 0.00 |
| Col13 | 19 | 0.49  | 0.00 | 0.00 |
| Col13 | 20 | 0.30  | 0.00 | 0.00 |
| Col13 | 21 | 0.42  | 0.00 | 0.00 |
| Col13 | 22 | 0.19  | 0.00 | 0.00 |
| Col13 | 23 | 0.32  | 0.00 | 0.00 |
| Col13 | 24 | 0.30  | 0.00 | 0.00 |
| Col13 | 25 | 0.42  | 0.00 | 0.00 |
| Col13 | 26 | 0.19  | 0.00 | 0.00 |
| Col13 | 27 | 0.32  | 0.00 | 0.00 |
| Col13 | 28 | -0.32 | 0.00 | 0.00 |
| Col13 | 29 | -0.14 | 0.00 | 0.00 |
| Col13 | 30 | -0.32 | 0.00 | 0.00 |
| Col13 | 31 | -0.14 | 0.00 | 0.00 |
| Col13 | 32 | -0.32 | 0.00 | 0.00 |
| Col13 | 33 | -0.14 | 0.00 | 0.00 |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col13 | 34 | -0.17 | 0.00 | 0.00 |
| Col13 | 35 | 0.00  | 0.00 | 0.00 |
| Col13 | 36 | 0.16  | 0.00 | 0.00 |
| Col13 | 37 | 0.16  | 0.00 | 0.00 |
| Col13 | 38 | 0.68  | 0.00 | 0.00 |
| Col13 | 39 | 0.68  | 0.00 | 0.00 |
| Col13 | 40 | 0.51  | 0.00 | 0.00 |
| Col13 | 41 | 0.51  | 0.00 | 0.00 |
| Col13 | 42 | 0.51  | 0.00 | 0.00 |
| Col13 | 43 | 0.51  | 0.00 | 0.00 |
| Col13 | 44 | 0.11  | 0.00 | 0.00 |
| Col13 | 45 | 0.11  | 0.00 | 0.00 |
| Col13 | 46 | 0.71  | 0.00 | 0.00 |
| Col13 | 47 | 0.36  | 0.00 | 0.00 |
| Col13 | 48 | 0.49  | 0.00 | 0.00 |
| Col13 | 49 | 0.15  | 0.00 | 0.00 |
| Col13 | 50 | 0.15  | 0.00 | 0.00 |
| Col13 | 51 | 0.11  | 0.00 | 0.00 |
| Col13 | 52 | 0.11  | 0.00 | 0.00 |
| Col14 | 1  | 0.85  | 0.00 | 0.00 |
| Col14 | 2  | 0.15  | 0.00 | 0.00 |
| Col14 | 3  | 0.62  | 0.00 | 0.00 |
| Col14 | 4  | 0.62  | 0.00 | 0.00 |
| Col14 | 5  | 0.68  | 0.00 | 0.00 |
| Col14 | 6  | 0.50  | 0.00 | 0.00 |
| Col14 | 7  | 0.50  | 0.00 | 0.00 |
| Col14 | 8  | -0.29 | 0.00 | 0.00 |
| Col14 | 9  | -0.12 | 0.00 | 0.00 |
| Col14 | 10 | -0.29 | 0.00 | 0.00 |
| Col14 | 11 | -0.12 | 0.00 | 0.00 |
| Col14 | 12 | -0.29 | 0.00 | 0.00 |
| Col14 | 13 | -0.12 | 0.00 | 0.00 |
| Col14 | 14 | -0.14 | 0.00 | 0.00 |
| Col14 | 15 | 0.03  | 0.00 | 0.00 |
| Col14 | 16 | 0.47  | 0.00 | 0.00 |
| Col14 | 17 | 0.60  | 0.00 | 0.00 |
| Col14 | 18 | 0.36  | 0.00 | 0.00 |
| Col14 | 19 | 0.49  | 0.00 | 0.00 |
| Col14 | 20 | 0.30  | 0.00 | 0.00 |
| Col14 | 21 | 0.42  | 0.00 | 0.00 |
| Col14 | 22 | 0.19  | 0.00 | 0.00 |
| Col14 | 23 | 0.32  | 0.00 | 0.00 |
| Col14 | 24 | 0.30  | 0.00 | 0.00 |
| Col14 | 25 | 0.42  | 0.00 | 0.00 |
| Col14 | 26 | 0.19  | 0.00 | 0.00 |
| Col14 | 27 | 0.32  | 0.00 | 0.00 |
| Col14 | 28 | -0.32 | 0.00 | 0.00 |
| Col14 | 29 | -0.14 | 0.00 | 0.00 |
| Col14 | 30 | -0.32 | 0.00 | 0.00 |
| Col14 | 31 | -0.14 | 0.00 | 0.00 |
| Col14 | 32 | -0.32 | 0.00 | 0.00 |
| Col14 | 33 | -0.14 | 0.00 | 0.00 |
| Col14 | 34 | -0.17 | 0.00 | 0.00 |
| Col14 | 35 | 0.00  | 0.00 | 0.00 |
| Col14 | 36 | 0.16  | 0.00 | 0.00 |
| Col14 | 37 | 0.16  | 0.00 | 0.00 |
| Col14 | 38 | 0.68  | 0.00 | 0.00 |
| Col14 | 39 | 0.68  | 0.00 | 0.00 |
| Col14 | 40 | 0.51  | 0.00 | 0.00 |
| Col14 | 41 | 0.51  | 0.00 | 0.00 |
| Col14 | 42 | 0.51  | 0.00 | 0.00 |
| Col14 | 43 | 0.51  | 0.00 | 0.00 |
| Col14 | 44 | 0.11  | 0.00 | 0.00 |
| Col14 | 45 | 0.11  | 0.00 | 0.00 |
| Col14 | 46 | 0.71  | 0.00 | 0.00 |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col14 | 47 | 0.36  | 0.00 | 0.00 |
| Col14 | 48 | 0.49  | 0.00 | 0.00 |
| Col14 | 49 | 0.15  | 0.00 | 0.00 |
| Col14 | 50 | 0.15  | 0.00 | 0.00 |
| Col14 | 51 | 0.11  | 0.00 | 0.00 |
| Col14 | 52 | 0.11  | 0.00 | 0.00 |
| Col15 | 1  | 0.85  | 0.00 | 0.00 |
| Col15 | 2  | 0.15  | 0.00 | 0.00 |
| Col15 | 3  | 0.62  | 0.00 | 0.00 |
| Col15 | 4  | 0.62  | 0.00 | 0.00 |
| Col15 | 5  | 0.68  | 0.00 | 0.00 |
| Col15 | 6  | 0.50  | 0.00 | 0.00 |
| Col15 | 7  | 0.50  | 0.00 | 0.00 |
| Col15 | 8  | -0.29 | 0.00 | 0.00 |
| Col15 | 9  | -0.12 | 0.00 | 0.00 |
| Col15 | 10 | -0.29 | 0.00 | 0.00 |
| Col15 | 11 | -0.12 | 0.00 | 0.00 |
| Col15 | 12 | -0.29 | 0.00 | 0.00 |
| Col15 | 13 | -0.12 | 0.00 | 0.00 |
| Col15 | 14 | -0.14 | 0.00 | 0.00 |
| Col15 | 15 | 0.03  | 0.00 | 0.00 |
| Col15 | 16 | 0.47  | 0.00 | 0.00 |
| Col15 | 17 | 0.60  | 0.00 | 0.00 |
| Col15 | 18 | 0.36  | 0.00 | 0.00 |
| Col15 | 19 | 0.49  | 0.00 | 0.00 |
| Col15 | 20 | 0.30  | 0.00 | 0.00 |
| Col15 | 21 | 0.42  | 0.00 | 0.00 |
| Col15 | 22 | 0.19  | 0.00 | 0.00 |
| Col15 | 23 | 0.32  | 0.00 | 0.00 |
| Col15 | 24 | 0.30  | 0.00 | 0.00 |
| Col15 | 25 | 0.42  | 0.00 | 0.00 |
| Col15 | 26 | 0.19  | 0.00 | 0.00 |
| Col15 | 27 | 0.32  | 0.00 | 0.00 |
| Col15 | 28 | -0.32 | 0.00 | 0.00 |
| Col15 | 29 | -0.14 | 0.00 | 0.00 |
| Col15 | 30 | -0.32 | 0.00 | 0.00 |
| Col15 | 31 | -0.14 | 0.00 | 0.00 |
| Col15 | 32 | -0.32 | 0.00 | 0.00 |
| Col15 | 33 | -0.14 | 0.00 | 0.00 |
| Col15 | 34 | -0.17 | 0.00 | 0.00 |
| Col15 | 35 | 0.00  | 0.00 | 0.00 |
| Col15 | 36 | 0.16  | 0.00 | 0.00 |
| Col15 | 37 | 0.16  | 0.00 | 0.00 |
| Col15 | 38 | 0.68  | 0.00 | 0.00 |
| Col15 | 39 | 0.68  | 0.00 | 0.00 |
| Col15 | 40 | 0.51  | 0.00 | 0.00 |
| Col15 | 41 | 0.51  | 0.00 | 0.00 |
| Col15 | 42 | 0.51  | 0.00 | 0.00 |
| Col15 | 43 | 0.51  | 0.00 | 0.00 |
| Col15 | 44 | 0.11  | 0.00 | 0.00 |
| Col15 | 45 | 0.11  | 0.00 | 0.00 |
| Col15 | 46 | 0.71  | 0.00 | 0.00 |
| Col15 | 47 | 0.36  | 0.00 | 0.00 |
| Col15 | 48 | 0.49  | 0.00 | 0.00 |
| Col15 | 49 | 0.15  | 0.00 | 0.00 |
| Col15 | 50 | 0.15  | 0.00 | 0.00 |
| Col15 | 51 | 0.11  | 0.00 | 0.00 |
| Col15 | 52 | 0.11  | 0.00 | 0.00 |
| Col16 | 1  | 0.85  | 0.00 | 0.00 |
| Col16 | 2  | 0.15  | 0.00 | 0.00 |
| Col16 | 3  | 0.62  | 0.00 | 0.00 |
| Col16 | 4  | 0.62  | 0.00 | 0.00 |
| Col16 | 5  | 0.68  | 0.00 | 0.00 |
| Col16 | 6  | 0.50  | 0.00 | 0.00 |
| Col16 | 7  | 0.50  | 0.00 | 0.00 |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col16 | 8  | -0.29 | 0.00 | 0.00 |
| Col16 | 9  | -0.12 | 0.00 | 0.00 |
| Col16 | 10 | -0.29 | 0.00 | 0.00 |
| Col16 | 11 | -0.12 | 0.00 | 0.00 |
| Col16 | 12 | -0.29 | 0.00 | 0.00 |
| Col16 | 13 | -0.12 | 0.00 | 0.00 |
| Col16 | 14 | -0.14 | 0.00 | 0.00 |
| Col16 | 15 | 0.03  | 0.00 | 0.00 |
| Col16 | 16 | 0.47  | 0.00 | 0.00 |
| Col16 | 17 | 0.60  | 0.00 | 0.00 |
| Col16 | 18 | 0.36  | 0.00 | 0.00 |
| Col16 | 19 | 0.49  | 0.00 | 0.00 |
| Col16 | 20 | 0.30  | 0.00 | 0.00 |
| Col16 | 21 | 0.42  | 0.00 | 0.00 |
| Col16 | 22 | 0.19  | 0.00 | 0.00 |
| Col16 | 23 | 0.32  | 0.00 | 0.00 |
| Col16 | 24 | 0.30  | 0.00 | 0.00 |
| Col16 | 25 | 0.42  | 0.00 | 0.00 |
| Col16 | 26 | 0.19  | 0.00 | 0.00 |
| Col16 | 27 | 0.32  | 0.00 | 0.00 |
| Col16 | 28 | -0.32 | 0.00 | 0.00 |
| Col16 | 29 | -0.14 | 0.00 | 0.00 |
| Col16 | 30 | -0.32 | 0.00 | 0.00 |
| Col16 | 31 | -0.14 | 0.00 | 0.00 |
| Col16 | 32 | -0.32 | 0.00 | 0.00 |
| Col16 | 33 | -0.14 | 0.00 | 0.00 |
| Col16 | 34 | -0.17 | 0.00 | 0.00 |
| Col16 | 35 | 0.00  | 0.00 | 0.00 |
| Col16 | 36 | 0.16  | 0.00 | 0.00 |
| Col16 | 37 | 0.16  | 0.00 | 0.00 |
| Col16 | 38 | 0.68  | 0.00 | 0.00 |
| Col16 | 39 | 0.68  | 0.00 | 0.00 |
| Col16 | 40 | 0.51  | 0.00 | 0.00 |
| Col16 | 41 | 0.51  | 0.00 | 0.00 |
| Col16 | 42 | 0.51  | 0.00 | 0.00 |
| Col16 | 43 | 0.51  | 0.00 | 0.00 |
| Col16 | 44 | 0.11  | 0.00 | 0.00 |
| Col16 | 45 | 0.11  | 0.00 | 0.00 |
| Col16 | 46 | 0.71  | 0.00 | 0.00 |
| Col16 | 47 | 0.36  | 0.00 | 0.00 |
| Col16 | 48 | 0.49  | 0.00 | 0.00 |
| Col16 | 49 | 0.15  | 0.00 | 0.00 |
| Col16 | 50 | 0.15  | 0.00 | 0.00 |
| Col16 | 51 | 0.11  | 0.00 | 0.00 |
| Col16 | 52 | 0.11  | 0.00 | 0.00 |
| Col17 | 1  | 0.85  | 0.00 | 0.00 |
| Col17 | 2  | 0.15  | 0.00 | 0.00 |
| Col17 | 3  | 0.62  | 0.00 | 0.00 |
| Col17 | 4  | 0.62  | 0.00 | 0.00 |
| Col17 | 5  | 0.68  | 0.00 | 0.00 |
| Col17 | 6  | 0.50  | 0.00 | 0.00 |
| Col17 | 7  | 0.50  | 0.00 | 0.00 |
| Col17 | 8  | -0.29 | 0.00 | 0.00 |
| Col17 | 9  | -0.12 | 0.00 | 0.00 |
| Col17 | 10 | -0.29 | 0.00 | 0.00 |
| Col17 | 11 | -0.12 | 0.00 | 0.00 |
| Col17 | 12 | -0.29 | 0.00 | 0.00 |
| Col17 | 13 | -0.12 | 0.00 | 0.00 |
| Col17 | 14 | -0.14 | 0.00 | 0.00 |
| Col17 | 15 | 0.03  | 0.00 | 0.00 |
| Col17 | 16 | 0.47  | 0.00 | 0.00 |
| Col17 | 17 | 0.60  | 0.00 | 0.00 |
| Col17 | 18 | 0.36  | 0.00 | 0.00 |
| Col17 | 19 | 0.49  | 0.00 | 0.00 |
| Col17 | 20 | 0.30  | 0.00 | 0.00 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col17 | 21 | 0.42  | 0.00 | 0.00  |
| Col17 | 22 | 0.19  | 0.00 | 0.00  |
| Col17 | 23 | 0.32  | 0.00 | 0.00  |
| Col17 | 24 | 0.30  | 0.00 | 0.00  |
| Col17 | 25 | 0.42  | 0.00 | 0.00  |
| Col17 | 26 | 0.19  | 0.00 | 0.00  |
| Col17 | 27 | 0.32  | 0.00 | 0.00  |
| Col17 | 28 | -0.32 | 0.00 | 0.00  |
| Col17 | 29 | -0.14 | 0.00 | 0.00  |
| Col17 | 30 | -0.32 | 0.00 | 0.00  |
| Col17 | 31 | -0.14 | 0.00 | 0.00  |
| Col17 | 32 | -0.32 | 0.00 | 0.00  |
| Col17 | 33 | -0.14 | 0.00 | 0.00  |
| Col17 | 34 | -0.17 | 0.00 | 0.00  |
| Col17 | 35 | 0.00  | 0.00 | 0.00  |
| Col17 | 36 | 0.16  | 0.00 | 0.00  |
| Col17 | 37 | 0.16  | 0.00 | 0.00  |
| Col17 | 38 | 0.68  | 0.00 | 0.00  |
| Col17 | 39 | 0.68  | 0.00 | 0.00  |
| Col17 | 40 | 0.51  | 0.00 | 0.00  |
| Col17 | 41 | 0.51  | 0.00 | 0.00  |
| Col17 | 42 | 0.51  | 0.00 | 0.00  |
| Col17 | 43 | 0.51  | 0.00 | 0.00  |
| Col17 | 44 | 0.11  | 0.00 | 0.00  |
| Col17 | 45 | 0.11  | 0.00 | 0.00  |
| Col17 | 46 | 0.71  | 0.00 | 0.00  |
| Col17 | 47 | 0.36  | 0.00 | 0.00  |
| Col17 | 48 | 0.49  | 0.00 | 0.00  |
| Col17 | 49 | 0.15  | 0.00 | 0.00  |
| Col17 | 50 | 0.15  | 0.00 | 0.00  |
| Col17 | 51 | 0.11  | 0.00 | 0.00  |
| Col17 | 52 | 0.11  | 0.00 | 0.00  |
| Col18 | 1  | 0.44  | 0.00 | 0.00  |
| Col18 | 2  | 0.09  | 0.00 | 0.00  |
| Col18 | 3  | 0.33  | 0.00 | 0.00  |
| Col18 | 4  | 0.33  | 0.00 | 0.00  |
| Col18 | 5  | 0.36  | 0.00 | 0.00  |
| Col18 | 6  | 0.27  | 0.00 | 0.00  |
| Col18 | 7  | 0.27  | 0.00 | 0.00  |
| Col18 | 8  | -0.13 | 0.00 | -0.04 |
| Col18 | 9  | -0.04 | 0.00 | -0.04 |
| Col18 | 10 | -0.13 | 0.00 | 0.05  |
| Col18 | 11 | -0.04 | 0.00 | 0.05  |
| Col18 | 12 | -0.13 | 0.00 | 0.05  |
| Col18 | 13 | -0.04 | 0.00 | 0.05  |
| Col18 | 14 | -0.05 | 0.00 | 0.05  |
| Col18 | 15 | 0.03  | 0.00 | 0.05  |
| Col18 | 16 | 0.25  | 0.00 | 0.04  |
| Col18 | 17 | 0.32  | 0.00 | 0.04  |
| Col18 | 18 | 0.20  | 0.00 | 0.04  |
| Col18 | 19 | 0.26  | 0.00 | 0.04  |
| Col18 | 20 | 0.17  | 0.00 | 0.04  |
| Col18 | 21 | 0.23  | 0.00 | 0.04  |
| Col18 | 22 | 0.11  | 0.00 | 0.04  |
| Col18 | 23 | 0.18  | 0.00 | 0.04  |
| Col18 | 24 | 0.17  | 0.00 | 0.04  |
| Col18 | 25 | 0.23  | 0.00 | 0.04  |
| Col18 | 26 | 0.11  | 0.00 | 0.04  |
| Col18 | 27 | 0.18  | 0.00 | 0.04  |
| Col18 | 28 | -0.14 | 0.00 | -0.04 |
| Col18 | 29 | -0.05 | 0.00 | -0.04 |
| Col18 | 30 | -0.14 | 0.00 | 0.05  |
| Col18 | 31 | -0.05 | 0.00 | 0.05  |
| Col18 | 32 | -0.14 | 0.00 | 0.05  |
| Col18 | 33 | -0.05 | 0.00 | 0.05  |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col18 | 34 | -0.07 | 0.00 | 0.05 |
| Col18 | 35 | 0.02  | 0.00 | 0.05 |
| Col18 | 36 | 0.10  | 0.00 | 0.00 |
| Col18 | 37 | 0.10  | 0.00 | 0.00 |
| Col18 | 38 | 0.36  | 0.00 | 0.00 |
| Col18 | 39 | 0.36  | 0.00 | 0.00 |
| Col18 | 40 | 0.27  | 0.00 | 0.00 |
| Col18 | 41 | 0.27  | 0.00 | 0.00 |
| Col18 | 42 | 0.27  | 0.00 | 0.00 |
| Col18 | 43 | 0.27  | 0.00 | 0.00 |
| Col18 | 44 | 0.07  | 0.00 | 0.00 |
| Col18 | 45 | 0.07  | 0.00 | 0.00 |
| Col18 | 46 | 0.37  | 0.00 | 0.00 |
| Col18 | 47 | 0.20  | 0.00 | 0.04 |
| Col18 | 48 | 0.26  | 0.00 | 0.04 |
| Col18 | 49 | 0.09  | 0.00 | 0.00 |
| Col18 | 50 | 0.09  | 0.00 | 0.00 |
| Col18 | 51 | 0.07  | 0.00 | 0.00 |
| Col18 | 52 | 0.07  | 0.00 | 0.00 |

COLUMN DEFLECTIONS:

| Load   |      | Deflection(in) |       |
|--------|------|----------------|-------|
| Id     | Id   | Calc           | Limit |
| -----  | ---- | -----          | ----- |
| Col110 | 1    | 0.00           | 1.10  |
| Col110 | 2    | 0.00           | 1.10  |
| Col110 | 3    | 0.00           | 1.10  |
| Col110 | 4    | 0.00           | 1.10  |
| Col110 | 5    | 0.00           | 1.10  |
| Col110 | 6    | 0.00           | 1.10  |
| Col110 | 7    | 0.00           | 1.10  |
| Col110 | 8    | -0.07          | 1.10  |
| Col110 | 9    | -0.07          | 1.10  |
| Col110 | 10   | 0.09           | 1.10  |
| Col110 | 11   | 0.09           | 1.10  |
| Col110 | 12   | 0.09           | 1.10  |
| Col110 | 13   | 0.09           | 1.10  |
| Col110 | 14   | 0.09           | 1.10  |
| Col110 | 15   | 0.09           | 1.10  |
| Col110 | 16   | 0.07           | 1.10  |
| Col110 | 17   | 0.07           | 1.10  |
| Col110 | 18   | 0.07           | 1.10  |
| Col110 | 19   | 0.07           | 1.10  |
| Col110 | 20   | 0.07           | 1.10  |
| Col110 | 21   | 0.07           | 1.10  |
| Col110 | 22   | 0.07           | 1.10  |
| Col110 | 23   | 0.07           | 1.10  |
| Col110 | 24   | 0.07           | 1.10  |
| Col110 | 25   | 0.07           | 1.10  |
| Col110 | 26   | 0.07           | 1.10  |
| Col110 | 27   | 0.07           | 1.10  |
| Col110 | 28   | -0.07          | 1.10  |
| Col110 | 29   | -0.07          | 1.10  |
| Col110 | 30   | 0.09           | 1.10  |
| Col110 | 31   | 0.09           | 1.10  |
| Col110 | 32   | 0.09           | 1.10  |
| Col110 | 33   | 0.09           | 1.10  |
| Col110 | 34   | 0.09           | 1.10  |
| Col110 | 35   | 0.09           | 1.10  |
| Col110 | 36   | 0.00           | 1.10  |
| Col110 | 37   | 0.00           | 1.10  |
| Col110 | 38   | 0.00           | 1.10  |
| Col110 | 39   | 0.00           | 1.10  |
| Col110 | 40   | 0.00           | 1.10  |

|       |    |      |      |
|-------|----|------|------|
| Col10 | 41 | 0.00 | 1.10 |
| Col10 | 42 | 0.00 | 1.10 |
| Col10 | 43 | 0.00 | 1.10 |
| Col10 | 44 | 0.00 | 1.10 |
| Col10 | 45 | 0.00 | 1.10 |
| Col10 | 46 | 0.00 | 1.10 |
| Col10 | 47 | 0.04 | 1.10 |
| Col10 | 48 | 0.04 | 1.10 |
| Col11 | 1  | 0.00 | 1.10 |
| Col11 | 2  | 0.00 | 1.10 |
| Col11 | 3  | 0.00 | 1.10 |
| Col11 | 4  | 0.00 | 1.10 |
| Col11 | 5  | 0.00 | 1.10 |
| Col11 | 6  | 0.00 | 1.10 |
| Col11 | 7  | 0.00 | 1.10 |
| Col11 | 8  | 0.00 | 1.10 |
| Col11 | 9  | 0.00 | 1.10 |
| Col11 | 10 | 0.00 | 1.10 |
| Col11 | 11 | 0.00 | 1.10 |
| Col11 | 12 | 0.00 | 1.10 |
| Col11 | 13 | 0.00 | 1.10 |
| Col11 | 14 | 0.00 | 1.10 |
| Col11 | 15 | 0.00 | 1.10 |
| Col11 | 16 | 0.00 | 1.10 |
| Col11 | 17 | 0.00 | 1.10 |
| Col11 | 18 | 0.00 | 1.10 |
| Col11 | 19 | 0.00 | 1.10 |
| Col11 | 20 | 0.00 | 1.10 |
| Col11 | 21 | 0.00 | 1.10 |
| Col11 | 22 | 0.00 | 1.10 |
| Col11 | 23 | 0.00 | 1.10 |
| Col11 | 24 | 0.00 | 1.10 |
| Col11 | 25 | 0.00 | 1.10 |
| Col11 | 26 | 0.00 | 1.10 |
| Col11 | 27 | 0.00 | 1.10 |
| Col11 | 28 | 0.00 | 1.10 |
| Col11 | 29 | 0.00 | 1.10 |
| Col11 | 30 | 0.00 | 1.10 |
| Col11 | 31 | 0.00 | 1.10 |
| Col11 | 32 | 0.00 | 1.10 |
| Col11 | 33 | 0.00 | 1.10 |
| Col11 | 34 | 0.00 | 1.10 |
| Col11 | 35 | 0.00 | 1.10 |
| Col11 | 36 | 0.00 | 1.10 |
| Col11 | 37 | 0.00 | 1.10 |
| Col11 | 38 | 0.00 | 1.10 |
| Col11 | 39 | 0.00 | 1.10 |
| Col11 | 40 | 0.00 | 1.10 |
| Col11 | 41 | 0.00 | 1.10 |
| Col11 | 42 | 0.00 | 1.10 |
| Col11 | 43 | 0.00 | 1.10 |
| Col11 | 44 | 0.00 | 1.10 |
| Col11 | 45 | 0.00 | 1.10 |
| Col11 | 46 | 0.00 | 1.10 |
| Col11 | 47 | 0.00 | 1.10 |
| Col11 | 48 | 0.00 | 1.10 |
| Col12 | 1  | 0.00 | 1.10 |
| Col12 | 2  | 0.00 | 1.10 |
| Col12 | 3  | 0.00 | 1.10 |
| Col12 | 4  | 0.00 | 1.10 |
| Col12 | 5  | 0.00 | 1.10 |
| Col12 | 6  | 0.00 | 1.10 |
| Col12 | 7  | 0.00 | 1.10 |
| Col12 | 8  | 0.00 | 1.10 |
| Col12 | 9  | 0.00 | 1.10 |

|       |    |      |      |
|-------|----|------|------|
| Col12 | 10 | 0.00 | 1.10 |
| Col12 | 11 | 0.00 | 1.10 |
| Col12 | 12 | 0.00 | 1.10 |
| Col12 | 13 | 0.00 | 1.10 |
| Col12 | 14 | 0.00 | 1.10 |
| Col12 | 15 | 0.00 | 1.10 |
| Col12 | 16 | 0.00 | 1.10 |
| Col12 | 17 | 0.00 | 1.10 |
| Col12 | 18 | 0.00 | 1.10 |
| Col12 | 19 | 0.00 | 1.10 |
| Col12 | 20 | 0.00 | 1.10 |
| Col12 | 21 | 0.00 | 1.10 |
| Col12 | 22 | 0.00 | 1.10 |
| Col12 | 23 | 0.00 | 1.10 |
| Col12 | 24 | 0.00 | 1.10 |
| Col12 | 25 | 0.00 | 1.10 |
| Col12 | 26 | 0.00 | 1.10 |
| Col12 | 27 | 0.00 | 1.10 |
| Col12 | 28 | 0.00 | 1.10 |
| Col12 | 29 | 0.00 | 1.10 |
| Col12 | 30 | 0.00 | 1.10 |
| Col12 | 31 | 0.00 | 1.10 |
| Col12 | 32 | 0.00 | 1.10 |
| Col12 | 33 | 0.00 | 1.10 |
| Col12 | 34 | 0.00 | 1.10 |
| Col12 | 35 | 0.00 | 1.10 |
| Col12 | 36 | 0.00 | 1.10 |
| Col12 | 37 | 0.00 | 1.10 |
| Col12 | 38 | 0.00 | 1.10 |
| Col12 | 39 | 0.00 | 1.10 |
| Col12 | 40 | 0.00 | 1.10 |
| Col12 | 41 | 0.00 | 1.10 |
| Col12 | 42 | 0.00 | 1.10 |
| Col12 | 43 | 0.00 | 1.10 |
| Col12 | 44 | 0.00 | 1.10 |
| Col12 | 45 | 0.00 | 1.10 |
| Col12 | 46 | 0.00 | 1.10 |
| Col12 | 47 | 0.00 | 1.10 |
| Col12 | 48 | 0.00 | 1.10 |
| Col13 | 1  | 0.00 | 1.10 |
| Col13 | 2  | 0.00 | 1.10 |
| Col13 | 3  | 0.00 | 1.10 |
| Col13 | 4  | 0.00 | 1.10 |
| Col13 | 5  | 0.00 | 1.10 |
| Col13 | 6  | 0.00 | 1.10 |
| Col13 | 7  | 0.00 | 1.10 |
| Col13 | 8  | 0.00 | 1.10 |
| Col13 | 9  | 0.00 | 1.10 |
| Col13 | 10 | 0.00 | 1.10 |
| Col13 | 11 | 0.00 | 1.10 |
| Col13 | 12 | 0.00 | 1.10 |
| Col13 | 13 | 0.00 | 1.10 |
| Col13 | 14 | 0.00 | 1.10 |
| Col13 | 15 | 0.00 | 1.10 |
| Col13 | 16 | 0.00 | 1.10 |
| Col13 | 17 | 0.00 | 1.10 |
| Col13 | 18 | 0.00 | 1.10 |
| Col13 | 19 | 0.00 | 1.10 |
| Col13 | 20 | 0.00 | 1.10 |
| Col13 | 21 | 0.00 | 1.10 |
| Col13 | 22 | 0.00 | 1.10 |
| Col13 | 23 | 0.00 | 1.10 |
| Col13 | 24 | 0.00 | 1.10 |
| Col13 | 25 | 0.00 | 1.10 |
| Col13 | 26 | 0.00 | 1.10 |

|       |    |      |      |
|-------|----|------|------|
| Col13 | 27 | 0.00 | 1.10 |
| Col13 | 28 | 0.00 | 1.10 |
| Col13 | 29 | 0.00 | 1.10 |
| Col13 | 30 | 0.00 | 1.10 |
| Col13 | 31 | 0.00 | 1.10 |
| Col13 | 32 | 0.00 | 1.10 |
| Col13 | 33 | 0.00 | 1.10 |
| Col13 | 34 | 0.00 | 1.10 |
| Col13 | 35 | 0.00 | 1.10 |
| Col13 | 36 | 0.00 | 1.10 |
| Col13 | 37 | 0.00 | 1.10 |
| Col13 | 38 | 0.00 | 1.10 |
| Col13 | 39 | 0.00 | 1.10 |
| Col13 | 40 | 0.00 | 1.10 |
| Col13 | 41 | 0.00 | 1.10 |
| Col13 | 42 | 0.00 | 1.10 |
| Col13 | 43 | 0.00 | 1.10 |
| Col13 | 44 | 0.00 | 1.10 |
| Col13 | 45 | 0.00 | 1.10 |
| Col13 | 46 | 0.00 | 1.10 |
| Col13 | 47 | 0.00 | 1.10 |
| Col13 | 48 | 0.00 | 1.10 |
| Col14 | 1  | 0.00 | 1.10 |
| Col14 | 2  | 0.00 | 1.10 |
| Col14 | 3  | 0.00 | 1.10 |
| Col14 | 4  | 0.00 | 1.10 |
| Col14 | 5  | 0.00 | 1.10 |
| Col14 | 6  | 0.00 | 1.10 |
| Col14 | 7  | 0.00 | 1.10 |
| Col14 | 8  | 0.00 | 1.10 |
| Col14 | 9  | 0.00 | 1.10 |
| Col14 | 10 | 0.00 | 1.10 |
| Col14 | 11 | 0.00 | 1.10 |
| Col14 | 12 | 0.00 | 1.10 |
| Col14 | 13 | 0.00 | 1.10 |
| Col14 | 14 | 0.00 | 1.10 |
| Col14 | 15 | 0.00 | 1.10 |
| Col14 | 16 | 0.00 | 1.10 |
| Col14 | 17 | 0.00 | 1.10 |
| Col14 | 18 | 0.00 | 1.10 |
| Col14 | 19 | 0.00 | 1.10 |
| Col14 | 20 | 0.00 | 1.10 |
| Col14 | 21 | 0.00 | 1.10 |
| Col14 | 22 | 0.00 | 1.10 |
| Col14 | 23 | 0.00 | 1.10 |
| Col14 | 24 | 0.00 | 1.10 |
| Col14 | 25 | 0.00 | 1.10 |
| Col14 | 26 | 0.00 | 1.10 |
| Col14 | 27 | 0.00 | 1.10 |
| Col14 | 28 | 0.00 | 1.10 |
| Col14 | 29 | 0.00 | 1.10 |
| Col14 | 30 | 0.00 | 1.10 |
| Col14 | 31 | 0.00 | 1.10 |
| Col14 | 32 | 0.00 | 1.10 |
| Col14 | 33 | 0.00 | 1.10 |
| Col14 | 34 | 0.00 | 1.10 |
| Col14 | 35 | 0.00 | 1.10 |
| Col14 | 36 | 0.00 | 1.10 |
| Col14 | 37 | 0.00 | 1.10 |
| Col14 | 38 | 0.00 | 1.10 |
| Col14 | 39 | 0.00 | 1.10 |
| Col14 | 40 | 0.00 | 1.10 |
| Col14 | 41 | 0.00 | 1.10 |
| Col14 | 42 | 0.00 | 1.10 |
| Col14 | 43 | 0.00 | 1.10 |

|       |    |      |      |
|-------|----|------|------|
| Col14 | 44 | 0.00 | 1.10 |
| Col14 | 45 | 0.00 | 1.10 |
| Col14 | 46 | 0.00 | 1.10 |
| Col14 | 47 | 0.00 | 1.10 |
| Col14 | 48 | 0.00 | 1.10 |
| Col15 | 1  | 0.00 | 1.10 |
| Col15 | 2  | 0.00 | 1.10 |
| Col15 | 3  | 0.00 | 1.10 |
| Col15 | 4  | 0.00 | 1.10 |
| Col15 | 5  | 0.00 | 1.10 |
| Col15 | 6  | 0.00 | 1.10 |
| Col15 | 7  | 0.00 | 1.10 |
| Col15 | 8  | 0.00 | 1.10 |
| Col15 | 9  | 0.00 | 1.10 |
| Col15 | 10 | 0.00 | 1.10 |
| Col15 | 11 | 0.00 | 1.10 |
| Col15 | 12 | 0.00 | 1.10 |
| Col15 | 13 | 0.00 | 1.10 |
| Col15 | 14 | 0.00 | 1.10 |
| Col15 | 15 | 0.00 | 1.10 |
| Col15 | 16 | 0.00 | 1.10 |
| Col15 | 17 | 0.00 | 1.10 |
| Col15 | 18 | 0.00 | 1.10 |
| Col15 | 19 | 0.00 | 1.10 |
| Col15 | 20 | 0.00 | 1.10 |
| Col15 | 21 | 0.00 | 1.10 |
| Col15 | 22 | 0.00 | 1.10 |
| Col15 | 23 | 0.00 | 1.10 |
| Col15 | 24 | 0.00 | 1.10 |
| Col15 | 25 | 0.00 | 1.10 |
| Col15 | 26 | 0.00 | 1.10 |
| Col15 | 27 | 0.00 | 1.10 |
| Col15 | 28 | 0.00 | 1.10 |
| Col15 | 29 | 0.00 | 1.10 |
| Col15 | 30 | 0.00 | 1.10 |
| Col15 | 31 | 0.00 | 1.10 |
| Col15 | 32 | 0.00 | 1.10 |
| Col15 | 33 | 0.00 | 1.10 |
| Col15 | 34 | 0.00 | 1.10 |
| Col15 | 35 | 0.00 | 1.10 |
| Col15 | 36 | 0.00 | 1.10 |
| Col15 | 37 | 0.00 | 1.10 |
| Col15 | 38 | 0.00 | 1.10 |
| Col15 | 39 | 0.00 | 1.10 |
| Col15 | 40 | 0.00 | 1.10 |
| Col15 | 41 | 0.00 | 1.10 |
| Col15 | 42 | 0.00 | 1.10 |
| Col15 | 43 | 0.00 | 1.10 |
| Col15 | 44 | 0.00 | 1.10 |
| Col15 | 45 | 0.00 | 1.10 |
| Col15 | 46 | 0.00 | 1.10 |
| Col15 | 47 | 0.00 | 1.10 |
| Col15 | 48 | 0.00 | 1.10 |
| Col16 | 1  | 0.00 | 1.10 |
| Col16 | 2  | 0.00 | 1.10 |
| Col16 | 3  | 0.00 | 1.10 |
| Col16 | 4  | 0.00 | 1.10 |
| Col16 | 5  | 0.00 | 1.10 |
| Col16 | 6  | 0.00 | 1.10 |
| Col16 | 7  | 0.00 | 1.10 |
| Col16 | 8  | 0.00 | 1.10 |
| Col16 | 9  | 0.00 | 1.10 |
| Col16 | 10 | 0.00 | 1.10 |
| Col16 | 11 | 0.00 | 1.10 |
| Col16 | 12 | 0.00 | 1.10 |

|       |    |      |      |
|-------|----|------|------|
| Col16 | 13 | 0.00 | 1.10 |
| Col16 | 14 | 0.00 | 1.10 |
| Col16 | 15 | 0.00 | 1.10 |
| Col16 | 16 | 0.00 | 1.10 |
| Col16 | 17 | 0.00 | 1.10 |
| Col16 | 18 | 0.00 | 1.10 |
| Col16 | 19 | 0.00 | 1.10 |
| Col16 | 20 | 0.00 | 1.10 |
| Col16 | 21 | 0.00 | 1.10 |
| Col16 | 22 | 0.00 | 1.10 |
| Col16 | 23 | 0.00 | 1.10 |
| Col16 | 24 | 0.00 | 1.10 |
| Col16 | 25 | 0.00 | 1.10 |
| Col16 | 26 | 0.00 | 1.10 |
| Col16 | 27 | 0.00 | 1.10 |
| Col16 | 28 | 0.00 | 1.10 |
| Col16 | 29 | 0.00 | 1.10 |
| Col16 | 30 | 0.00 | 1.10 |
| Col16 | 31 | 0.00 | 1.10 |
| Col16 | 32 | 0.00 | 1.10 |
| Col16 | 33 | 0.00 | 1.10 |
| Col16 | 34 | 0.00 | 1.10 |
| Col16 | 35 | 0.00 | 1.10 |
| Col16 | 36 | 0.00 | 1.10 |
| Col16 | 37 | 0.00 | 1.10 |
| Col16 | 38 | 0.00 | 1.10 |
| Col16 | 39 | 0.00 | 1.10 |
| Col16 | 40 | 0.00 | 1.10 |
| Col16 | 41 | 0.00 | 1.10 |
| Col16 | 42 | 0.00 | 1.10 |
| Col16 | 43 | 0.00 | 1.10 |
| Col16 | 44 | 0.00 | 1.10 |
| Col16 | 45 | 0.00 | 1.10 |
| Col16 | 46 | 0.00 | 1.10 |
| Col16 | 47 | 0.00 | 1.10 |
| Col16 | 48 | 0.00 | 1.10 |
| Col17 | 1  | 0.00 | 1.10 |
| Col17 | 2  | 0.00 | 1.10 |
| Col17 | 3  | 0.00 | 1.10 |
| Col17 | 4  | 0.00 | 1.10 |
| Col17 | 5  | 0.00 | 1.10 |
| Col17 | 6  | 0.00 | 1.10 |
| Col17 | 7  | 0.00 | 1.10 |
| Col17 | 8  | 0.00 | 1.10 |
| Col17 | 9  | 0.00 | 1.10 |
| Col17 | 10 | 0.00 | 1.10 |
| Col17 | 11 | 0.00 | 1.10 |
| Col17 | 12 | 0.00 | 1.10 |
| Col17 | 13 | 0.00 | 1.10 |
| Col17 | 14 | 0.00 | 1.10 |
| Col17 | 15 | 0.00 | 1.10 |
| Col17 | 16 | 0.00 | 1.10 |
| Col17 | 17 | 0.00 | 1.10 |
| Col17 | 18 | 0.00 | 1.10 |
| Col17 | 19 | 0.00 | 1.10 |
| Col17 | 20 | 0.00 | 1.10 |
| Col17 | 21 | 0.00 | 1.10 |
| Col17 | 22 | 0.00 | 1.10 |
| Col17 | 23 | 0.00 | 1.10 |
| Col17 | 24 | 0.00 | 1.10 |
| Col17 | 25 | 0.00 | 1.10 |
| Col17 | 26 | 0.00 | 1.10 |
| Col17 | 27 | 0.00 | 1.10 |
| Col17 | 28 | 0.00 | 1.10 |
| Col17 | 29 | 0.00 | 1.10 |

|       |    |       |      |
|-------|----|-------|------|
| Col17 | 30 | 0.00  | 1.10 |
| Col17 | 31 | 0.00  | 1.10 |
| Col17 | 32 | 0.00  | 1.10 |
| Col17 | 33 | 0.00  | 1.10 |
| Col17 | 34 | 0.00  | 1.10 |
| Col17 | 35 | 0.00  | 1.10 |
| Col17 | 36 | 0.00  | 1.10 |
| Col17 | 37 | 0.00  | 1.10 |
| Col17 | 38 | 0.00  | 1.10 |
| Col17 | 39 | 0.00  | 1.10 |
| Col17 | 40 | 0.00  | 1.10 |
| Col17 | 41 | 0.00  | 1.10 |
| Col17 | 42 | 0.00  | 1.10 |
| Col17 | 43 | 0.00  | 1.10 |
| Col17 | 44 | 0.00  | 1.10 |
| Col17 | 45 | 0.00  | 1.10 |
| Col17 | 46 | 0.00  | 1.10 |
| Col17 | 47 | 0.00  | 1.10 |
| Col17 | 48 | 0.00  | 1.10 |
| Col18 | 1  | 0.00  | 1.10 |
| Col18 | 2  | 0.00  | 1.10 |
| Col18 | 3  | 0.00  | 1.10 |
| Col18 | 4  | 0.00  | 1.10 |
| Col18 | 5  | 0.00  | 1.10 |
| Col18 | 6  | 0.00  | 1.10 |
| Col18 | 7  | 0.00  | 1.10 |
| Col18 | 8  | -0.07 | 1.10 |
| Col18 | 9  | -0.07 | 1.10 |
| Col18 | 10 | 0.09  | 1.10 |
| Col18 | 11 | 0.09  | 1.10 |
| Col18 | 12 | 0.09  | 1.10 |
| Col18 | 13 | 0.09  | 1.10 |
| Col18 | 14 | 0.09  | 1.10 |
| Col18 | 15 | 0.09  | 1.10 |
| Col18 | 16 | 0.07  | 1.10 |
| Col18 | 17 | 0.07  | 1.10 |
| Col18 | 18 | 0.07  | 1.10 |
| Col18 | 19 | 0.07  | 1.10 |
| Col18 | 20 | 0.07  | 1.10 |
| Col18 | 21 | 0.07  | 1.10 |
| Col18 | 22 | 0.07  | 1.10 |
| Col18 | 23 | 0.07  | 1.10 |
| Col18 | 24 | 0.07  | 1.10 |
| Col18 | 25 | 0.07  | 1.10 |
| Col18 | 26 | 0.07  | 1.10 |
| Col18 | 27 | 0.07  | 1.10 |
| Col18 | 28 | -0.07 | 1.10 |
| Col18 | 29 | -0.07 | 1.10 |
| Col18 | 30 | 0.09  | 1.10 |
| Col18 | 31 | 0.09  | 1.10 |
| Col18 | 32 | 0.09  | 1.10 |
| Col18 | 33 | 0.09  | 1.10 |
| Col18 | 34 | 0.09  | 1.10 |
| Col18 | 35 | 0.09  | 1.10 |
| Col18 | 36 | 0.00  | 1.10 |
| Col18 | 37 | 0.00  | 1.10 |
| Col18 | 38 | 0.00  | 1.10 |
| Col18 | 39 | 0.00  | 1.10 |
| Col18 | 40 | 0.00  | 1.10 |
| Col18 | 41 | 0.00  | 1.10 |
| Col18 | 42 | 0.00  | 1.10 |
| Col18 | 43 | 0.00  | 1.10 |
| Col18 | 44 | 0.00  | 1.10 |
| Col18 | 45 | 0.00  | 1.10 |
| Col18 | 46 | 0.00  | 1.10 |

|       |    |      |      |
|-------|----|------|------|
| Col18 | 47 | 0.04 | 1.10 |
| Col18 | 48 | 0.04 | 1.10 |

RAFTER DEFLECTIONS:

| Load  |       | Deflection(in) |       |
|-------|-------|----------------|-------|
| Id    | Id    | Calc           | Limit |
| ----- | ----- | -----          | ----- |
| Raf1  | 1     | 0.00           | 0.93  |
| Raf1  | 2     | 0.00           | 0.93  |
| Raf1  | 3     | 0.00           | 0.93  |
| Raf1  | 4     | 0.00           | 0.93  |
| Raf1  | 5     | 0.00           | 0.93  |
| Raf1  | 6     | 0.00           | 0.93  |
| Raf1  | 7     | 0.00           | 0.93  |
| Raf1  | 8     | 0.00           | 0.93  |
| Raf1  | 9     | 0.00           | 0.93  |
| Raf1  | 10    | 0.00           | 0.93  |
| Raf1  | 11    | 0.00           | 0.93  |
| Raf1  | 12    | 0.00           | 0.93  |
| Raf1  | 13    | 0.00           | 0.93  |
| Raf1  | 14    | 0.00           | 0.93  |
| Raf1  | 15    | 0.00           | 0.93  |
| Raf1  | 16    | 0.00           | 0.93  |
| Raf1  | 17    | 0.00           | 0.93  |
| Raf1  | 18    | 0.00           | 0.93  |
| Raf1  | 19    | 0.00           | 0.93  |
| Raf1  | 20    | 0.00           | 0.93  |
| Raf1  | 21    | 0.00           | 0.93  |
| Raf1  | 22    | 0.00           | 0.93  |
| Raf1  | 23    | 0.00           | 0.93  |
| Raf1  | 24    | 0.00           | 0.93  |
| Raf1  | 25    | 0.00           | 0.93  |
| Raf1  | 26    | 0.00           | 0.93  |
| Raf1  | 27    | 0.00           | 0.93  |
| Raf1  | 28    | 0.00           | 0.93  |
| Raf1  | 29    | 0.00           | 0.93  |
| Raf1  | 30    | 0.00           | 0.93  |
| Raf1  | 31    | 0.00           | 0.93  |
| Raf1  | 32    | 0.00           | 0.93  |
| Raf1  | 33    | 0.00           | 0.93  |
| Raf1  | 34    | 0.00           | 0.93  |
| Raf1  | 35    | 0.00           | 0.93  |
| Raf1  | 36    | 0.00           | 0.93  |
| Raf1  | 37    | 0.00           | 0.93  |
| Raf1  | 38    | 0.00           | 0.93  |
| Raf1  | 39    | 0.00           | 0.93  |
| Raf1  | 40    | 0.00           | 0.93  |
| Raf1  | 41    | 0.00           | 0.93  |
| Raf1  | 42    | 0.00           | 0.93  |
| Raf1  | 43    | 0.00           | 0.93  |
| Raf1  | 44    | 0.00           | 0.93  |
| Raf1  | 45    | 0.00           | 0.93  |
| Raf1  | 46    | 0.00           | 0.93  |
| Raf1  | 47    | 0.00           | 0.93  |
| Raf1  | 48    | 0.00           | 0.93  |
| Raf2  | 1     | 0.00           | 0.93  |
| Raf2  | 2     | 0.00           | 0.93  |
| Raf2  | 3     | 0.00           | 0.93  |
| Raf2  | 4     | 0.00           | 0.93  |
| Raf2  | 5     | 0.00           | 0.93  |
| Raf2  | 6     | 0.00           | 0.93  |
| Raf2  | 7     | 0.00           | 0.93  |
| Raf2  | 8     | 0.00           | 0.93  |
| Raf2  | 9     | 0.00           | 0.93  |

|      |    |      |      |
|------|----|------|------|
| Raf2 | 10 | 0.00 | 0.93 |
| Raf2 | 11 | 0.00 | 0.93 |
| Raf2 | 12 | 0.00 | 0.93 |
| Raf2 | 13 | 0.00 | 0.93 |
| Raf2 | 14 | 0.00 | 0.93 |
| Raf2 | 15 | 0.00 | 0.93 |
| Raf2 | 16 | 0.00 | 0.93 |
| Raf2 | 17 | 0.00 | 0.93 |
| Raf2 | 18 | 0.00 | 0.93 |
| Raf2 | 19 | 0.00 | 0.93 |
| Raf2 | 20 | 0.00 | 0.93 |
| Raf2 | 21 | 0.00 | 0.93 |
| Raf2 | 22 | 0.00 | 0.93 |
| Raf2 | 23 | 0.00 | 0.93 |
| Raf2 | 24 | 0.00 | 0.93 |
| Raf2 | 25 | 0.00 | 0.93 |
| Raf2 | 26 | 0.00 | 0.93 |
| Raf2 | 27 | 0.00 | 0.93 |
| Raf2 | 28 | 0.00 | 0.93 |
| Raf2 | 29 | 0.00 | 0.93 |
| Raf2 | 30 | 0.00 | 0.93 |
| Raf2 | 31 | 0.00 | 0.93 |
| Raf2 | 32 | 0.00 | 0.93 |
| Raf2 | 33 | 0.00 | 0.93 |
| Raf2 | 34 | 0.00 | 0.93 |
| Raf2 | 35 | 0.00 | 0.93 |
| Raf2 | 36 | 0.00 | 0.93 |
| Raf2 | 37 | 0.00 | 0.93 |
| Raf2 | 38 | 0.00 | 0.93 |
| Raf2 | 39 | 0.00 | 0.93 |
| Raf2 | 40 | 0.00 | 0.93 |
| Raf2 | 41 | 0.00 | 0.93 |
| Raf2 | 42 | 0.00 | 0.93 |
| Raf2 | 43 | 0.00 | 0.93 |
| Raf2 | 44 | 0.00 | 0.93 |
| Raf2 | 45 | 0.00 | 0.93 |
| Raf2 | 46 | 0.00 | 0.93 |
| Raf2 | 47 | 0.00 | 0.93 |
| Raf2 | 48 | 0.00 | 0.93 |
| Raf3 | 1  | 0.00 | 0.93 |
| Raf3 | 2  | 0.00 | 0.93 |
| Raf3 | 3  | 0.00 | 0.93 |
| Raf3 | 4  | 0.00 | 0.93 |
| Raf3 | 5  | 0.00 | 0.93 |
| Raf3 | 6  | 0.00 | 0.93 |
| Raf3 | 7  | 0.00 | 0.93 |
| Raf3 | 8  | 0.00 | 0.93 |
| Raf3 | 9  | 0.00 | 0.93 |
| Raf3 | 10 | 0.00 | 0.93 |
| Raf3 | 11 | 0.00 | 0.93 |
| Raf3 | 12 | 0.00 | 0.93 |
| Raf3 | 13 | 0.00 | 0.93 |
| Raf3 | 14 | 0.00 | 0.93 |
| Raf3 | 15 | 0.00 | 0.93 |
| Raf3 | 16 | 0.00 | 0.93 |
| Raf3 | 17 | 0.00 | 0.93 |
| Raf3 | 18 | 0.00 | 0.93 |
| Raf3 | 19 | 0.00 | 0.93 |
| Raf3 | 20 | 0.00 | 0.93 |
| Raf3 | 21 | 0.00 | 0.93 |
| Raf3 | 22 | 0.00 | 0.93 |
| Raf3 | 23 | 0.00 | 0.93 |
| Raf3 | 24 | 0.00 | 0.93 |
| Raf3 | 25 | 0.00 | 0.93 |
| Raf3 | 26 | 0.00 | 0.93 |

|      |    |      |      |
|------|----|------|------|
| Raf3 | 27 | 0.00 | 0.93 |
| Raf3 | 28 | 0.00 | 0.93 |
| Raf3 | 29 | 0.00 | 0.93 |
| Raf3 | 30 | 0.00 | 0.93 |
| Raf3 | 31 | 0.00 | 0.93 |
| Raf3 | 32 | 0.00 | 0.93 |
| Raf3 | 33 | 0.00 | 0.93 |
| Raf3 | 34 | 0.00 | 0.93 |
| Raf3 | 35 | 0.00 | 0.93 |
| Raf3 | 36 | 0.00 | 0.93 |
| Raf3 | 37 | 0.00 | 0.93 |
| Raf3 | 38 | 0.00 | 0.93 |
| Raf3 | 39 | 0.00 | 0.93 |
| Raf3 | 40 | 0.00 | 0.93 |
| Raf3 | 41 | 0.00 | 0.93 |
| Raf3 | 42 | 0.00 | 0.93 |
| Raf3 | 43 | 0.00 | 0.93 |
| Raf3 | 44 | 0.00 | 0.93 |
| Raf3 | 45 | 0.00 | 0.93 |
| Raf3 | 46 | 0.00 | 0.93 |
| Raf3 | 47 | 0.00 | 0.93 |
| Raf3 | 48 | 0.00 | 0.93 |
| Raf4 | 1  | 0.00 | 0.93 |
| Raf4 | 2  | 0.00 | 0.93 |
| Raf4 | 3  | 0.00 | 0.93 |
| Raf4 | 4  | 0.00 | 0.93 |
| Raf4 | 5  | 0.00 | 0.93 |
| Raf4 | 6  | 0.00 | 0.93 |
| Raf4 | 7  | 0.00 | 0.93 |
| Raf4 | 8  | 0.00 | 0.93 |
| Raf4 | 9  | 0.00 | 0.93 |
| Raf4 | 10 | 0.00 | 0.93 |
| Raf4 | 11 | 0.00 | 0.93 |
| Raf4 | 12 | 0.00 | 0.93 |
| Raf4 | 13 | 0.00 | 0.93 |
| Raf4 | 14 | 0.00 | 0.93 |
| Raf4 | 15 | 0.00 | 0.93 |
| Raf4 | 16 | 0.00 | 0.93 |
| Raf4 | 17 | 0.00 | 0.93 |
| Raf4 | 18 | 0.00 | 0.93 |
| Raf4 | 19 | 0.00 | 0.93 |
| Raf4 | 20 | 0.00 | 0.93 |
| Raf4 | 21 | 0.00 | 0.93 |
| Raf4 | 22 | 0.00 | 0.93 |
| Raf4 | 23 | 0.00 | 0.93 |
| Raf4 | 24 | 0.00 | 0.93 |
| Raf4 | 25 | 0.00 | 0.93 |
| Raf4 | 26 | 0.00 | 0.93 |
| Raf4 | 27 | 0.00 | 0.93 |
| Raf4 | 28 | 0.00 | 0.93 |
| Raf4 | 29 | 0.00 | 0.93 |
| Raf4 | 30 | 0.00 | 0.93 |
| Raf4 | 31 | 0.00 | 0.93 |
| Raf4 | 32 | 0.00 | 0.93 |
| Raf4 | 33 | 0.00 | 0.93 |
| Raf4 | 34 | 0.00 | 0.93 |
| Raf4 | 35 | 0.00 | 0.93 |
| Raf4 | 36 | 0.00 | 0.93 |
| Raf4 | 37 | 0.00 | 0.93 |
| Raf4 | 38 | 0.00 | 0.93 |
| Raf4 | 39 | 0.00 | 0.93 |
| Raf4 | 40 | 0.00 | 0.93 |
| Raf4 | 41 | 0.00 | 0.93 |
| Raf4 | 42 | 0.00 | 0.93 |
| Raf4 | 43 | 0.00 | 0.93 |

|      |    |      |      |
|------|----|------|------|
| Raf4 | 44 | 0.00 | 0.93 |
| Raf4 | 45 | 0.00 | 0.93 |
| Raf4 | 46 | 0.00 | 0.93 |
| Raf4 | 47 | 0.00 | 0.93 |
| Raf4 | 48 | 0.00 | 0.93 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col10 | 16.5          | 4.5            | 4.5   | 85           | 72    | 0.00                             | 0.00 |
| Col11 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col12 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col13 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col14 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col15 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col16 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col17 | 0.1           | 4.5            | 4.5   | 1            | 72    | 0.00                             | 0.00 |
| Col18 | 16.5          | 4.5            | 4.5   | 85           | 72    | 0.00                             | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 1      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 2      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 3      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 4      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 5      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 6      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 7      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |
| 8      | 1       | 4.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 2       | 8.000  | 6X2C16 | 0.333         | 0.00                       | 0.70 |
|        | 3       | 12.000 | 6X2C16 | 0.333         | 0.00                       | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k )- |       | Moment(f-k ) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|--------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc         | Limit |        | Calc        | Limit |
| 1      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 2      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 3      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 4      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 5      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 6      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 7      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |
| 8      | 1       | WP   | -0.01       | 3.32  | 0.00         | 2.65  | 0.00   | 0.00        | 0.04  |
|        |         | WS   | 0.01        | 3.32  | 0.00         | 3.07  | 0.00   | 0.00        | 0.04  |

WP - Wind\_Pressure  
WS - Wind\_Suction

JAMB/HEADER LAYOUT:

| Bay<br>Id | Id     | Part    | Length | Weight |
|-----------|--------|---------|--------|--------|
| ---       | -----  | -----   | -----  | -----  |
| 1         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 2         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 3         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 4         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 5         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 6         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 7         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |
| 8         | JambL  | PBMJ6   | 16.46  | 57.3   |
|           | JambR  | PBMJ6   | 16.46  | 57.3   |
|           | Header | 6X25C16 | 12.00  | 28.1   |

STRENGTH/DEFLECTION:

| Bay<br>Id | Id     | Load | -Shear(k )- |       | Moment(f-k ) |       | Max<br>UC | Deflect(in) |       |
|-----------|--------|------|-------------|-------|--------------|-------|-----------|-------------|-------|
| ---       | -----  | ---  | Calc        | Limit | Calc         | Limit | ---       | Calc        | Limit |
| 1         | JambL  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.61        | 5.26  | 2.51         | 3.90  | 0.64      | 0.36        | 2.19  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | Header | WP   | -0.07       | 3.86  | -0.22        | 0.98  | 0.22      | -0.03       | 1.60  |
|           |        | WS   | 0.08        | 3.86  | 0.25         | 1.93  | 0.13      | 0.03        | 1.60  |
| 2         | JambL  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | Header | WP   | -0.07       | 3.86  | -0.22        | 0.98  | 0.22      | -0.03       | 1.60  |
|           |        | WS   | 0.08        | 3.86  | 0.24         | 1.93  | 0.13      | 0.03        | 1.60  |
| 3         | JambL  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | Header | WP   | -0.07       | 3.86  | -0.22        | 0.98  | 0.22      | -0.03       | 1.60  |
|           |        | WS   | 0.08        | 3.86  | 0.24         | 1.93  | 0.13      | 0.03        | 1.60  |
| 4         | JambL  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | Header | WP   | -0.07       | 3.86  | -0.22        | 0.98  | 0.22      | -0.03       | 1.60  |
|           |        | WS   | 0.08        | 3.86  | 0.24         | 1.93  | 0.13      | 0.03        | 1.60  |
| 5         | JambL  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |
|           |        | WS   | 0.59        | 5.26  | 2.42         | 3.90  | 0.62      | 0.34        | 2.19  |
|           | JambR  | WP   | -0.53       | 5.26  | -2.19        | 3.90  | 0.56      | -0.31       | 2.19  |

|   |        |    |       |      |       |      |      |       |      |
|---|--------|----|-------|------|-------|------|------|-------|------|
|   | Header | WS | 0.59  | 5.26 | 2.42  | 3.90 | 0.62 | 0.34  | 2.19 |
|   |        | WP | -0.07 | 3.86 | -0.22 | 0.98 | 0.22 | -0.03 | 1.60 |
|   |        | WS | 0.08  | 3.86 | 0.24  | 1.93 | 0.13 | 0.03  | 1.60 |
| 6 | JambL  | WP | -0.53 | 5.26 | -2.19 | 3.90 | 0.56 | -0.31 | 2.19 |
|   |        | WS | 0.59  | 5.26 | 2.42  | 3.90 | 0.62 | 0.34  | 2.19 |
|   |        | WP | -0.53 | 5.26 | -2.19 | 3.90 | 0.56 | -0.31 | 2.19 |
|   | JambR  | WS | 0.59  | 5.26 | 2.42  | 3.90 | 0.62 | 0.34  | 2.19 |
|   |        | WP | -0.07 | 3.86 | -0.22 | 0.98 | 0.22 | -0.03 | 1.60 |
|   |        | WS | 0.08  | 3.86 | 0.24  | 1.93 | 0.13 | 0.03  | 1.60 |
| 7 | JambL  | WP | -0.53 | 5.26 | -2.19 | 3.90 | 0.56 | -0.31 | 2.19 |
|   |        | WS | 0.59  | 5.26 | 2.42  | 3.90 | 0.62 | 0.34  | 2.19 |
|   |        | WP | -0.53 | 5.26 | -2.19 | 3.90 | 0.56 | -0.31 | 2.19 |
|   | JambR  | WS | 0.59  | 5.26 | 2.42  | 3.90 | 0.62 | 0.34  | 2.19 |
|   |        | WP | -0.07 | 3.86 | -0.22 | 0.98 | 0.22 | -0.03 | 1.60 |
|   |        | WS | 0.08  | 3.86 | 0.24  | 1.93 | 0.13 | 0.03  | 1.60 |
| 8 | JambL  | WP | -0.53 | 5.26 | -2.19 | 3.90 | 0.56 | -0.31 | 2.19 |
|   |        | WS | 0.59  | 5.26 | 2.42  | 3.90 | 0.62 | 0.34  | 2.19 |
|   |        | WP | -0.53 | 5.26 | -2.19 | 3.90 | 0.56 | -0.31 | 2.19 |
|   | JambR  | WS | 0.61  | 5.26 | 2.51  | 3.90 | 0.64 | 0.36  | 2.19 |
|   |        | WP | -0.07 | 3.86 | -0.22 | 0.98 | 0.22 | -0.03 | 1.60 |
|   |        | WS | 0.08  | 3.86 | 0.25  | 1.93 | 0.13 | 0.03  | 1.60 |

WP - Wind Pressure

WS - Wind\_Suction

```
=====
T                               Front SW - Wall Panel Design                               2/13/23 10:19am
=====
```

# PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| --- | -----   | ---- | ----- | ----- |
| 1   | CUSPANL | CP   | 20.00 | 50.0  |

# MOMENTS & DEFLECTION:

|            |             | -----Moment (ft-lb/ft)----- |      |       |       |         |       |       |       |           |              |       |  |
|------------|-------------|-----------------------------|------|-------|-------|---------|-------|-------|-------|-----------|--------------|-------|--|
| Span<br>Id | Locate (ft) |                             | Load | Start |       | Midspan |       | End   |       | Max<br>UC | Deflect (in) |       |  |
|            | Start       | End                         |      | Calc  | Limit | Calc    | Limit | Calc  | Limit |           | Calc         | Limit |  |
| ----       | -----       | -----                       | ---- | ----- | ----- | -----   | ----- | ----- | ----- | -----     | -----        | ----- |  |
| 1          | 14.00       | 16.46                       | WP   | 0.0   | 38.1  | -9.3    | 49.1  | 0.0   | 38.1  | 0.19      | -0.04        | 0.49  |  |
|            |             |                             | WS   | 0.0   | 38.1  | 12.4    | 38.1  | 0.0   | 38.1  | 0.32      | 0.06         | 0.49  |  |

WP - Wind\_Pressure

WS - Wind\_Suction

PANEL:

| Part    | Thick<br>(in) | Yield<br>(ksi ) | Tensile<br>Strength<br>(ksi ) |
|---------|---------------|-----------------|-------------------------------|
| CUSPANL | 0.038         | 50.00           | 65.00                         |

GIRT SCREWS:

| Part | Dia<br>(in) | Washer<br>(in) | Limit<br>(k ) |
|------|-------------|----------------|---------------|
| #29  | 0.21        | 0.50           | 2.90          |

PANEL ZONE LAYOUT:

|            |             | ---Wall (ft)--- |         | Bay |        | --Girt (ft,ft,in)-- |              |  | Panel        |
|------------|-------------|-----------------|---------|-----|--------|---------------------|--------------|--|--------------|
| Zone<br>Id | Description | Offset1         | Offset2 | Id  | Locate | Load<br>Width       | Min<br>Thick |  | Span<br>(ft) |
| 1          | Interior    | 4.00            | 108.00  | 1   | 12.00  | 4.23                | 0.059        |  | 4.46         |
| 2          | Lt Edge     | 0.00            | 4.00    | 1   | 12.00  | 4.23                | 0.059        |  | 4.46         |
| 3          | Rt Edge     | 108.00          | 112.00  | 8   | 12.00  | 4.23                | 0.059        |  | 4.46         |

GIRT SCREW CHECK:

|            |                | Wind              | -----Limit(k )----- |                 |                   |                  |           |
|------------|----------------|-------------------|---------------------|-----------------|-------------------|------------------|-----------|
| Zone<br>Id | Screw<br>Space | Suction<br>(psf ) | Load<br>(k )        | Girt<br>Pullout | Panel<br>Pullover | Screw<br>Tension | Max<br>UC |
| 1          | 1.00           | 16.38             | 0.07                | 0.22            | 0.61              | 0.77             | 0.32      |
| 2          | 1.00           | 16.38             | 0.07                | 0.22            | 0.61              | 0.77             | 0.32      |
| 3          | 1.00           | 16.38             | 0.07                | 0.22            | 0.61              | 0.77             | 0.32      |

WALL LAYOUT:

| Wall Id | Orn | Load Width |
|---------|-----|------------|
| 3       | T   | 7.00       |

MEMBER LAYOUT:

| Id     | Locate |        | ---Web(in)-- |       | -Flange(in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|--------------|-------|--------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth        | Thick | Width        | Thick |             |             | Id               | UC   | Report  |
| Col20  | 5.0    | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.3        | 35.7        | 10               | 0.74 | Deflect |
| Col21  | 10.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.1        | 35.2        | 10               | 0.70 | Deflect |
| Col22  | 15.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.9        | 34.8        | 10               | 0.67 | Deflect |
| Col23  | 20.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.7        | 34.3        | 10               | 0.64 | Deflect |
| Col24  | 25.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.5        | 33.9        | 15               | 0.62 | Mom+Axl |
| Col25  | 30.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.3        | 33.4        | 15               | 0.60 | Mom+Axl |
| Col26  | 35.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.0        | 32.9        | 15               | 0.60 | Mom+Axl |
| Total= |        |        |              |       |              |       |             | 240.2       |                  |      |         |

DESIGN ACTIONS/STRENGTH:

| Id    | Load Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity_Check----- |       |               |               |
|-------|---------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|---------------|---------------|
|       |         | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Axial+ Moment | Shear+ Moment |
| Col20 | 1       | 0.83        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.12                  | 0.00  | 0.12          | 0.00          |
| Col20 | 2       | 0.13        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.02                  | 0.00  | 0.02          | 0.00          |
| Col20 | 3       | 0.60        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.09                  | 0.00  | 0.09          | 0.00          |
| Col20 | 4       | 0.60        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.09                  | 0.00  | 0.09          | 0.00          |
| Col20 | 5       | 0.66        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.10                  | 0.00  | 0.10          | 0.00          |
| Col20 | 6       | 0.48        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.07                  | 0.00  | 0.07          | 0.00          |
| Col20 | 7       | 0.48        | 6.75  | 0.00        | 3.32  | 0.00         | 2.65  | 0.07                  | 0.00  | 0.07          | 0.00          |
| Col20 | 8       | -0.31       | 21.18 | 0.41        | 3.32  | -1.65        | 2.65  | 0.01                  | 0.12  | 0.61          | 0.00          |
| Col20 | 9       | -0.14       | 21.18 | 0.41        | 3.32  | -1.65        | 2.65  | 0.01                  | 0.12  | 0.62          | 0.00          |
| Col20 | 10      | -0.31       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.69          | 0.00          |
| Col20 | 11      | -0.14       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.70          | 0.00          |
| Col20 | 12      | -0.31       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.69          | 0.00          |
| Col20 | 13      | -0.14       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.70          | 0.00          |
| Col20 | 14      | -0.16       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.69          | 0.00          |
| Col20 | 15      | 0.01        | 6.75  | -0.46       | 3.32  | 1.86         | 2.65  | 0.00                  | 0.14  | 0.70          | 0.00          |
| Col20 | 16      | 0.45        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.07                  | 0.10  | 0.59          | 0.00          |
| Col20 | 17      | 0.58        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.09                  | 0.10  | 0.61          | 0.00          |
| Col20 | 18      | 0.34        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.05                  | 0.10  | 0.58          | 0.00          |
| Col20 | 19      | 0.47        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.07                  | 0.10  | 0.60          | 0.00          |
| Col20 | 20      | 0.27        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.04                  | 0.10  | 0.57          | 0.00          |
| Col20 | 21      | 0.40        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.06                  | 0.10  | 0.59          | 0.00          |
| Col20 | 22      | 0.17        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.02                  | 0.10  | 0.55          | 0.00          |
| Col20 | 23      | 0.30        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.04                  | 0.10  | 0.57          | 0.00          |
| Col20 | 24      | 0.27        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.04                  | 0.10  | 0.57          | 0.00          |
| Col20 | 25      | 0.40        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.06                  | 0.10  | 0.59          | 0.00          |
| Col20 | 26      | 0.17        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.02                  | 0.10  | 0.55          | 0.00          |
| Col20 | 27      | 0.30        | 6.75  | -0.34       | 3.32  | 1.39         | 2.65  | 0.04                  | 0.10  | 0.57          | 0.00          |
| Col20 | 28      | -0.34       | 21.18 | 0.41        | 3.32  | -1.65        | 2.65  | 0.02                  | 0.12  | 0.61          | 0.00          |
| Col20 | 29      | -0.16       | 21.18 | 0.41        | 3.32  | -1.65        | 2.65  | 0.01                  | 0.12  | 0.62          | 0.00          |
| Col20 | 30      | -0.34       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.02                  | 0.14  | 0.69          | 0.00          |
| Col20 | 31      | -0.16       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.69          | 0.00          |
| Col20 | 32      | -0.34       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.02                  | 0.14  | 0.69          | 0.00          |
| Col20 | 33      | -0.16       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.69          | 0.00          |
| Col20 | 34      | -0.19       | 21.18 | -0.46       | 3.32  | 1.86         | 2.65  | 0.01                  | 0.14  | 0.69          | 0.00          |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col120 | 35 | -0.02 | 21.18 | -0.46 | 3.32 | 1.86  | 2.65 | 0.00 | 0.14 | 0.70 | 0.00 |
| Col120 | 36 | 0.13  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col120 | 37 | 0.14  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col120 | 38 | 0.66  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col120 | 39 | 0.66  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col120 | 40 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col120 | 41 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col120 | 42 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col120 | 43 | 0.49  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col120 | 44 | 0.08  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col120 | 45 | 0.08  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col120 | 46 | 0.69  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col120 | 47 | 0.34  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.05 | 0.10 | 0.58 | 0.00 |
| Col120 | 48 | 0.47  | 6.75  | -0.34 | 3.32 | 1.39  | 2.65 | 0.07 | 0.10 | 0.60 | 0.00 |
| Col120 | 49 | 0.13  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col120 | 50 | 0.13  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col120 | 51 | 0.09  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col120 | 52 | 0.09  | 6.75  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 1  | 0.83  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col121 | 2  | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 3  | 0.60  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 4  | 0.60  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 5  | 0.66  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 6  | 0.48  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col121 | 7  | 0.48  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col121 | 8  | -0.31 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.01 | 0.12 | 0.59 | 0.00 |
| Col121 | 9  | -0.14 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.01 | 0.12 | 0.60 | 0.00 |
| Col121 | 10 | -0.31 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 11 | -0.14 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 12 | -0.31 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 13 | -0.14 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 14 | -0.17 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 15 | 0.01  | 6.99  | -0.44 | 3.32 | 1.78  | 2.65 | 0.00 | 0.13 | 0.67 | 0.00 |
| Col121 | 16 | 0.45  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.06 | 0.10 | 0.57 | 0.00 |
| Col121 | 17 | 0.58  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.08 | 0.10 | 0.59 | 0.00 |
| Col121 | 18 | 0.34  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.05 | 0.10 | 0.55 | 0.00 |
| Col121 | 19 | 0.47  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.07 | 0.10 | 0.57 | 0.00 |
| Col121 | 20 | 0.27  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.54 | 0.00 |
| Col121 | 21 | 0.40  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.06 | 0.10 | 0.56 | 0.00 |
| Col121 | 22 | 0.17  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.02 | 0.10 | 0.53 | 0.00 |
| Col121 | 23 | 0.29  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.55 | 0.00 |
| Col121 | 24 | 0.27  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.54 | 0.00 |
| Col121 | 25 | 0.40  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.06 | 0.10 | 0.56 | 0.00 |
| Col121 | 26 | 0.17  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.02 | 0.10 | 0.53 | 0.00 |
| Col121 | 27 | 0.29  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.04 | 0.10 | 0.55 | 0.00 |
| Col121 | 28 | -0.34 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.02 | 0.12 | 0.59 | 0.00 |
| Col121 | 29 | -0.17 | 21.18 | 0.40  | 3.32 | -1.61 | 2.65 | 0.01 | 0.12 | 0.60 | 0.00 |
| Col121 | 30 | -0.34 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col121 | 31 | -0.17 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 32 | -0.34 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.02 | 0.13 | 0.65 | 0.00 |
| Col121 | 33 | -0.17 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 34 | -0.19 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.01 | 0.13 | 0.66 | 0.00 |
| Col121 | 35 | -0.02 | 21.18 | -0.44 | 3.32 | 1.78  | 2.65 | 0.00 | 0.13 | 0.67 | 0.00 |
| Col121 | 36 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 37 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 38 | 0.66  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 39 | 0.66  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col121 | 40 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col121 | 41 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col121 | 42 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col121 | 43 | 0.49  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col121 | 44 | 0.08  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 45 | 0.08  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 46 | 0.69  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col121 | 47 | 0.34  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.05 | 0.10 | 0.55 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col121 | 48 | 0.47  | 6.99  | -0.33 | 3.32 | 1.33  | 2.65 | 0.07 | 0.10 | 0.57 | 0.00 |
| Col121 | 49 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 50 | 0.13  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col121 | 51 | 0.09  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col121 | 52 | 0.09  | 6.99  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 1  | 0.83  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.12 | 0.00 | 0.12 | 0.00 |
| Col122 | 2  | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 3  | 0.60  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col122 | 4  | 0.60  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col122 | 5  | 0.66  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col122 | 6  | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 7  | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 8  | -0.31 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.01 | 0.12 | 0.58 | 0.00 |
| Col122 | 9  | -0.14 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.01 | 0.12 | 0.59 | 0.00 |
| Col122 | 10 | -0.31 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col122 | 11 | -0.14 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col122 | 12 | -0.31 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col122 | 13 | -0.14 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col122 | 14 | -0.17 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col122 | 15 | 0.01  | 7.22  | -0.44 | 3.32 | 1.73  | 2.65 | 0.00 | 0.13 | 0.65 | 0.00 |
| Col122 | 16 | 0.45  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col122 | 17 | 0.58  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.08 | 0.10 | 0.57 | 0.00 |
| Col122 | 18 | 0.34  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.05 | 0.10 | 0.54 | 0.00 |
| Col122 | 19 | 0.47  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col122 | 20 | 0.27  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col122 | 21 | 0.40  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col122 | 22 | 0.17  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.02 | 0.10 | 0.51 | 0.00 |
| Col122 | 23 | 0.29  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col122 | 24 | 0.27  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col122 | 25 | 0.40  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.06 | 0.10 | 0.55 | 0.00 |
| Col122 | 26 | 0.17  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.02 | 0.10 | 0.51 | 0.00 |
| Col122 | 27 | 0.29  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.04 | 0.10 | 0.53 | 0.00 |
| Col122 | 28 | -0.34 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.02 | 0.12 | 0.58 | 0.00 |
| Col122 | 29 | -0.17 | 21.18 | 0.40  | 3.32 | -1.57 | 2.65 | 0.01 | 0.12 | 0.58 | 0.00 |
| Col122 | 30 | -0.34 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col122 | 31 | -0.17 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col122 | 32 | -0.34 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.02 | 0.13 | 0.64 | 0.00 |
| Col122 | 33 | -0.17 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.65 | 0.00 |
| Col122 | 34 | -0.19 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.01 | 0.13 | 0.64 | 0.00 |
| Col122 | 35 | -0.02 | 21.18 | -0.44 | 3.32 | 1.73  | 2.65 | 0.00 | 0.13 | 0.65 | 0.00 |
| Col122 | 36 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 37 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 38 | 0.66  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col122 | 39 | 0.66  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col122 | 40 | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 41 | 0.49  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 42 | 0.48  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 43 | 0.49  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col122 | 44 | 0.08  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 45 | 0.08  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 46 | 0.69  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col122 | 47 | 0.34  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.05 | 0.10 | 0.54 | 0.00 |
| Col122 | 48 | 0.47  | 7.22  | -0.33 | 3.32 | 1.30  | 2.65 | 0.07 | 0.10 | 0.56 | 0.00 |
| Col122 | 49 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 50 | 0.13  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col122 | 51 | 0.09  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col122 | 52 | 0.09  | 7.22  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 1  | 0.83  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col123 | 2  | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 3  | 0.60  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col123 | 4  | 0.60  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col123 | 5  | 0.66  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 6  | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col123 | 7  | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col123 | 8  | -0.31 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.01 | 0.12 | 0.56 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col123 | 9  | -0.14 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.01 | 0.12 | 0.57 | 0.00 |
| Col123 | 10 | -0.31 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.62 | 0.00 |
| Col123 | 11 | -0.14 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col123 | 12 | -0.31 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.62 | 0.00 |
| Col123 | 13 | -0.14 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col123 | 14 | -0.17 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col123 | 15 | 0.01  | 7.46  | -0.43 | 3.32 | 1.68  | 2.65 | 0.00 | 0.13 | 0.64 | 0.00 |
| Col123 | 16 | 0.45  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.06 | 0.10 | 0.54 | 0.00 |
| Col123 | 17 | 0.58  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.08 | 0.10 | 0.55 | 0.00 |
| Col123 | 18 | 0.34  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col123 | 19 | 0.47  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.06 | 0.10 | 0.54 | 0.00 |
| Col123 | 20 | 0.27  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col123 | 21 | 0.40  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.53 | 0.00 |
| Col123 | 22 | 0.17  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.02 | 0.10 | 0.50 | 0.00 |
| Col123 | 23 | 0.29  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.52 | 0.00 |
| Col123 | 24 | 0.27  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col123 | 25 | 0.40  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.53 | 0.00 |
| Col123 | 26 | 0.17  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.02 | 0.10 | 0.50 | 0.00 |
| Col123 | 27 | 0.29  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.04 | 0.10 | 0.52 | 0.00 |
| Col123 | 28 | -0.34 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.02 | 0.12 | 0.56 | 0.00 |
| Col123 | 29 | -0.17 | 21.18 | 0.39  | 3.32 | -1.53 | 2.65 | 0.01 | 0.12 | 0.57 | 0.00 |
| Col123 | 30 | -0.34 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.02 | 0.13 | 0.62 | 0.00 |
| Col123 | 31 | -0.17 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col123 | 32 | -0.34 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.02 | 0.13 | 0.62 | 0.00 |
| Col123 | 33 | -0.17 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col123 | 34 | -0.19 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.01 | 0.13 | 0.63 | 0.00 |
| Col123 | 35 | -0.02 | 21.18 | -0.43 | 3.32 | 1.68  | 2.65 | 0.00 | 0.13 | 0.64 | 0.00 |
| Col123 | 36 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 37 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 38 | 0.66  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 39 | 0.66  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 40 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col123 | 41 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col123 | 42 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col123 | 43 | 0.48  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col123 | 44 | 0.08  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 45 | 0.08  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 46 | 0.69  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col123 | 47 | 0.34  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col123 | 48 | 0.47  | 7.46  | -0.32 | 3.32 | 1.26  | 2.65 | 0.06 | 0.10 | 0.54 | 0.00 |
| Col123 | 49 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 50 | 0.13  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col123 | 51 | 0.09  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col123 | 52 | 0.09  | 7.46  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col124 | 1  | 0.83  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col124 | 2  | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col124 | 3  | 0.60  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col124 | 4  | 0.60  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col124 | 5  | 0.66  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col124 | 6  | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col124 | 7  | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col124 | 8  | -0.31 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.01 | 0.12 | 0.55 | 0.00 |
| Col124 | 9  | -0.14 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.01 | 0.12 | 0.56 | 0.00 |
| Col124 | 10 | -0.31 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col124 | 11 | -0.14 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col124 | 12 | -0.31 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col124 | 13 | -0.14 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col124 | 14 | -0.17 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col124 | 15 | 0.01  | 7.69  | -0.42 | 3.32 | 1.64  | 2.65 | 0.00 | 0.13 | 0.62 | 0.00 |
| Col124 | 16 | 0.45  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.06 | 0.10 | 0.52 | 0.00 |
| Col124 | 17 | 0.57  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.07 | 0.10 | 0.54 | 0.00 |
| Col124 | 18 | 0.34  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col124 | 19 | 0.47  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.06 | 0.10 | 0.53 | 0.00 |
| Col124 | 20 | 0.27  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col124 | 21 | 0.40  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col24 | 22 | 0.16  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.02 | 0.10 | 0.49 | 0.00 |
| Col24 | 23 | 0.29  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col24 | 24 | 0.27  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col24 | 25 | 0.40  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.05 | 0.10 | 0.52 | 0.00 |
| Col24 | 26 | 0.16  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.02 | 0.10 | 0.49 | 0.00 |
| Col24 | 27 | 0.29  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.50 | 0.00 |
| Col24 | 28 | -0.34 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.02 | 0.12 | 0.55 | 0.00 |
| Col24 | 29 | -0.17 | 21.18 | 0.38  | 3.32 | -1.49 | 2.65 | 0.01 | 0.12 | 0.55 | 0.00 |
| Col24 | 30 | -0.34 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.02 | 0.13 | 0.60 | 0.00 |
| Col24 | 31 | -0.17 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col24 | 32 | -0.34 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.02 | 0.13 | 0.60 | 0.00 |
| Col24 | 33 | -0.17 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col24 | 34 | -0.19 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.01 | 0.13 | 0.61 | 0.00 |
| Col24 | 35 | -0.02 | 21.18 | -0.42 | 3.32 | 1.64  | 2.65 | 0.00 | 0.13 | 0.62 | 0.00 |
| Col24 | 36 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col24 | 37 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col24 | 38 | 0.66  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col24 | 39 | 0.66  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col24 | 40 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col24 | 41 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col24 | 42 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col24 | 43 | 0.48  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col24 | 44 | 0.08  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col24 | 45 | 0.08  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col24 | 46 | 0.69  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col24 | 47 | 0.34  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.04 | 0.10 | 0.51 | 0.00 |
| Col24 | 48 | 0.47  | 7.69  | -0.32 | 3.32 | 1.23  | 2.65 | 0.06 | 0.10 | 0.53 | 0.00 |
| Col24 | 49 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col24 | 50 | 0.13  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col24 | 51 | 0.08  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col24 | 52 | 0.09  | 7.69  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 1  | 0.83  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col25 | 2  | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 3  | 0.60  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col25 | 4  | 0.60  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col25 | 5  | 0.66  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col25 | 6  | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col25 | 7  | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col25 | 8  | -0.31 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.01 | 0.11 | 0.53 | 0.00 |
| Col25 | 9  | -0.14 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.01 | 0.11 | 0.54 | 0.00 |
| Col25 | 10 | -0.31 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col25 | 11 | -0.14 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col25 | 12 | -0.31 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col25 | 13 | -0.14 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col25 | 14 | -0.17 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col25 | 15 | 0.00  | 7.92  | -0.42 | 3.32 | 1.60  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col25 | 16 | 0.45  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.06 | 0.09 | 0.51 | 0.00 |
| Col25 | 17 | 0.57  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.07 | 0.09 | 0.52 | 0.00 |
| Col25 | 18 | 0.34  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.49 | 0.00 |
| Col25 | 19 | 0.47  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.06 | 0.09 | 0.51 | 0.00 |
| Col25 | 20 | 0.27  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.03 | 0.09 | 0.49 | 0.00 |
| Col25 | 21 | 0.40  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.05 | 0.09 | 0.50 | 0.00 |
| Col25 | 22 | 0.16  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.02 | 0.09 | 0.47 | 0.00 |
| Col25 | 23 | 0.29  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.49 | 0.00 |
| Col25 | 24 | 0.27  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.03 | 0.09 | 0.49 | 0.00 |
| Col25 | 25 | 0.40  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.05 | 0.09 | 0.50 | 0.00 |
| Col25 | 26 | 0.16  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.02 | 0.09 | 0.47 | 0.00 |
| Col25 | 27 | 0.29  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.49 | 0.00 |
| Col25 | 28 | -0.34 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.02 | 0.11 | 0.53 | 0.00 |
| Col25 | 29 | -0.17 | 21.18 | 0.38  | 3.32 | -1.45 | 2.65 | 0.01 | 0.11 | 0.54 | 0.00 |
| Col25 | 30 | -0.34 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.02 | 0.13 | 0.59 | 0.00 |
| Col25 | 31 | -0.17 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col25 | 32 | -0.34 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.02 | 0.13 | 0.59 | 0.00 |
| Col25 | 33 | -0.17 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.60 | 0.00 |
| Col25 | 34 | -0.20 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col25 | 35 | -0.02 | 21.18 | -0.42 | 3.32 | 1.60  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col25 | 36 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 37 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 38 | 0.66  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col25 | 39 | 0.66  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col25 | 40 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col25 | 41 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col25 | 42 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col25 | 43 | 0.48  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col25 | 44 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 45 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 46 | 0.69  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.09 | 0.00 | 0.09 | 0.00 |
| Col25 | 47 | 0.34  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.04 | 0.09 | 0.50 | 0.00 |
| Col25 | 48 | 0.47  | 7.92  | -0.31 | 3.32 | 1.20  | 2.65 | 0.06 | 0.09 | 0.51 | 0.00 |
| Col25 | 49 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 50 | 0.13  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col25 | 51 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col25 | 52 | 0.08  | 7.92  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 1  | 0.83  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col26 | 2  | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 3  | 0.60  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 4  | 0.60  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.07 | 0.00 | 0.07 | 0.00 |
| Col26 | 5  | 0.65  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col26 | 6  | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col26 | 7  | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col26 | 8  | -0.31 | 21.18 | 0.37  | 3.32 | -1.41 | 2.65 | 0.01 | 0.11 | 0.52 | 0.00 |
| Col26 | 9  | -0.14 | 21.18 | 0.37  | 3.32 | -1.41 | 2.65 | 0.01 | 0.11 | 0.53 | 0.00 |
| Col26 | 10 | -0.31 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.58 | 0.00 |
| Col26 | 11 | -0.14 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col26 | 12 | -0.31 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.58 | 0.00 |
| Col26 | 13 | -0.14 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col26 | 14 | -0.17 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col26 | 15 | 0.00  | 8.15  | -0.42 | 3.32 | 1.59  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col26 | 16 | 0.44  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.05 | 0.10 | 0.50 | 0.00 |
| Col26 | 17 | 0.57  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.07 | 0.10 | 0.52 | 0.00 |
| Col26 | 18 | 0.34  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.04 | 0.10 | 0.49 | 0.00 |
| Col26 | 19 | 0.47  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.06 | 0.10 | 0.51 | 0.00 |
| Col26 | 20 | 0.27  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.03 | 0.10 | 0.48 | 0.00 |
| Col26 | 21 | 0.40  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.05 | 0.10 | 0.50 | 0.00 |
| Col26 | 22 | 0.16  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.02 | 0.10 | 0.47 | 0.00 |
| Col26 | 23 | 0.29  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.04 | 0.10 | 0.49 | 0.00 |
| Col26 | 24 | 0.27  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.03 | 0.10 | 0.48 | 0.00 |
| Col26 | 25 | 0.40  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.05 | 0.10 | 0.50 | 0.00 |
| Col26 | 26 | 0.16  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.02 | 0.10 | 0.47 | 0.00 |
| Col26 | 27 | 0.29  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.04 | 0.10 | 0.49 | 0.00 |
| Col26 | 28 | -0.34 | 21.18 | 0.37  | 3.32 | -1.41 | 2.65 | 0.02 | 0.11 | 0.52 | 0.00 |
| Col26 | 29 | -0.17 | 21.18 | 0.37  | 3.32 | -1.41 | 2.65 | 0.01 | 0.11 | 0.52 | 0.00 |
| Col26 | 30 | -0.34 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.02 | 0.13 | 0.58 | 0.00 |
| Col26 | 31 | -0.17 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col26 | 32 | -0.34 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.02 | 0.13 | 0.58 | 0.00 |
| Col26 | 33 | -0.17 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col26 | 34 | -0.20 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.01 | 0.13 | 0.59 | 0.00 |
| Col26 | 35 | -0.02 | 21.18 | -0.42 | 3.32 | 1.59  | 2.65 | 0.00 | 0.13 | 0.60 | 0.00 |
| Col26 | 36 | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 37 | 0.13  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 38 | 0.66  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col26 | 39 | 0.66  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col26 | 40 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col26 | 41 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col26 | 42 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col26 | 43 | 0.48  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.06 | 0.00 | 0.06 | 0.00 |
| Col26 | 44 | 0.08  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 45 | 0.08  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 46 | 0.69  | 8.15  | 0.00  | 3.32 | 0.00  | 2.65 | 0.08 | 0.00 | 0.08 | 0.00 |
| Col26 | 47 | 0.34  | 8.15  | -0.32 | 3.32 | 1.19  | 2.65 | 0.04 | 0.10 | 0.49 | 0.00 |

|       |    |      |      |       |      |      |      |      |      |      |      |
|-------|----|------|------|-------|------|------|------|------|------|------|------|
| Col26 | 48 | 0.47 | 8.15 | -0.32 | 3.32 | 1.19 | 2.65 | 0.06 | 0.10 | 0.51 | 0.00 |
| Col26 | 49 | 0.13 | 8.15 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 50 | 0.13 | 8.15 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col26 | 51 | 0.08 | 8.15 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col26 | 52 | 0.08 | 8.15 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

COLUMN REACTIONS:

| Id    | Load |           | In_Plane  | Out_Plane |
|-------|------|-----------|-----------|-----------|
|       | Id   | Vert (k ) | Horz (k ) | Horz (k ) |
| ----- | ---- | -----     | -----     | -----     |
| Col20 | 1    | 0.83      | 0.00      | 0.00      |
| Col20 | 2    | 0.13      | 0.00      | 0.00      |
| Col20 | 3    | 0.60      | 0.00      | 0.00      |
| Col20 | 4    | 0.60      | 0.00      | 0.00      |
| Col20 | 5    | 0.66      | 0.00      | 0.00      |
| Col20 | 6    | 0.48      | 0.00      | 0.00      |
| Col20 | 7    | 0.48      | 0.00      | 0.00      |
| Col20 | 8    | -0.31     | 0.00      | -0.41     |
| Col20 | 9    | -0.14     | 0.00      | -0.41     |
| Col20 | 10   | -0.31     | 0.00      | 0.46      |
| Col20 | 11   | -0.14     | 0.00      | 0.46      |
| Col20 | 12   | -0.31     | 0.00      | 0.46      |
| Col20 | 13   | -0.14     | 0.00      | 0.46      |
| Col20 | 14   | -0.16     | 0.00      | 0.46      |
| Col20 | 15   | 0.01      | 0.00      | 0.46      |
| Col20 | 16   | 0.45      | 0.00      | 0.34      |
| Col20 | 17   | 0.58      | 0.00      | 0.34      |
| Col20 | 18   | 0.34      | 0.00      | 0.34      |
| Col20 | 19   | 0.47      | 0.00      | 0.34      |
| Col20 | 20   | 0.27      | 0.00      | 0.34      |
| Col20 | 21   | 0.40      | 0.00      | 0.34      |
| Col20 | 22   | 0.17      | 0.00      | 0.34      |
| Col20 | 23   | 0.30      | 0.00      | 0.34      |
| Col20 | 24   | 0.27      | 0.00      | 0.34      |
| Col20 | 25   | 0.40      | 0.00      | 0.34      |
| Col20 | 26   | 0.17      | 0.00      | 0.34      |
| Col20 | 27   | 0.30      | 0.00      | 0.34      |
| Col20 | 28   | -0.34     | 0.00      | -0.41     |
| Col20 | 29   | -0.16     | 0.00      | -0.41     |
| Col20 | 30   | -0.34     | 0.00      | 0.46      |
| Col20 | 31   | -0.16     | 0.00      | 0.46      |
| Col20 | 32   | -0.34     | 0.00      | 0.46      |
| Col20 | 33   | -0.16     | 0.00      | 0.46      |
| Col20 | 34   | -0.19     | 0.00      | 0.46      |
| Col20 | 35   | -0.02     | 0.00      | 0.46      |
| Col20 | 36   | 0.13      | 0.00      | 0.00      |
| Col20 | 37   | 0.14      | 0.00      | 0.00      |
| Col20 | 38   | 0.66      | 0.00      | 0.00      |
| Col20 | 39   | 0.66      | 0.00      | 0.00      |
| Col20 | 40   | 0.49      | 0.00      | 0.00      |
| Col20 | 41   | 0.49      | 0.00      | 0.00      |
| Col20 | 42   | 0.49      | 0.00      | 0.00      |
| Col20 | 43   | 0.49      | 0.00      | 0.00      |
| Col20 | 44   | 0.08      | 0.00      | 0.00      |
| Col20 | 45   | 0.08      | 0.00      | 0.00      |
| Col20 | 46   | 0.69      | 0.00      | 0.00      |
| Col20 | 47   | 0.34      | 0.00      | 0.34      |
| Col20 | 48   | 0.47      | 0.00      | 0.34      |
| Col20 | 49   | 0.13      | 0.00      | 0.00      |
| Col20 | 50   | 0.13      | 0.00      | 0.00      |
| Col20 | 51   | 0.09      | 0.00      | 0.00      |
| Col20 | 52   | 0.09      | 0.00      | 0.00      |
| Col21 | 1    | 0.83      | 0.00      | 0.00      |
| Col21 | 2    | 0.13      | 0.00      | 0.00      |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col21 | 3  | 0.60  | 0.00 | 0.00  |
| Col21 | 4  | 0.60  | 0.00 | 0.00  |
| Col21 | 5  | 0.66  | 0.00 | 0.00  |
| Col21 | 6  | 0.48  | 0.00 | 0.00  |
| Col21 | 7  | 0.48  | 0.00 | 0.00  |
| Col21 | 8  | -0.31 | 0.00 | -0.40 |
| Col21 | 9  | -0.14 | 0.00 | -0.40 |
| Col21 | 10 | -0.31 | 0.00 | 0.44  |
| Col21 | 11 | -0.14 | 0.00 | 0.44  |
| Col21 | 12 | -0.31 | 0.00 | 0.44  |
| Col21 | 13 | -0.14 | 0.00 | 0.44  |
| Col21 | 14 | -0.17 | 0.00 | 0.44  |
| Col21 | 15 | 0.01  | 0.00 | 0.44  |
| Col21 | 16 | 0.45  | 0.00 | 0.33  |
| Col21 | 17 | 0.58  | 0.00 | 0.33  |
| Col21 | 18 | 0.34  | 0.00 | 0.33  |
| Col21 | 19 | 0.47  | 0.00 | 0.33  |
| Col21 | 20 | 0.27  | 0.00 | 0.33  |
| Col21 | 21 | 0.40  | 0.00 | 0.33  |
| Col21 | 22 | 0.17  | 0.00 | 0.33  |
| Col21 | 23 | 0.29  | 0.00 | 0.33  |
| Col21 | 24 | 0.27  | 0.00 | 0.33  |
| Col21 | 25 | 0.40  | 0.00 | 0.33  |
| Col21 | 26 | 0.17  | 0.00 | 0.33  |
| Col21 | 27 | 0.29  | 0.00 | 0.33  |
| Col21 | 28 | -0.34 | 0.00 | -0.40 |
| Col21 | 29 | -0.17 | 0.00 | -0.40 |
| Col21 | 30 | -0.34 | 0.00 | 0.44  |
| Col21 | 31 | -0.17 | 0.00 | 0.44  |
| Col21 | 32 | -0.34 | 0.00 | 0.44  |
| Col21 | 33 | -0.17 | 0.00 | 0.44  |
| Col21 | 34 | -0.19 | 0.00 | 0.44  |
| Col21 | 35 | -0.02 | 0.00 | 0.44  |
| Col21 | 36 | 0.13  | 0.00 | 0.00  |
| Col21 | 37 | 0.13  | 0.00 | 0.00  |
| Col21 | 38 | 0.66  | 0.00 | 0.00  |
| Col21 | 39 | 0.66  | 0.00 | 0.00  |
| Col21 | 40 | 0.49  | 0.00 | 0.00  |
| Col21 | 41 | 0.49  | 0.00 | 0.00  |
| Col21 | 42 | 0.49  | 0.00 | 0.00  |
| Col21 | 43 | 0.49  | 0.00 | 0.00  |
| Col21 | 44 | 0.08  | 0.00 | 0.00  |
| Col21 | 45 | 0.08  | 0.00 | 0.00  |
| Col21 | 46 | 0.69  | 0.00 | 0.00  |
| Col21 | 47 | 0.34  | 0.00 | 0.33  |
| Col21 | 48 | 0.47  | 0.00 | 0.33  |
| Col21 | 49 | 0.13  | 0.00 | 0.00  |
| Col21 | 50 | 0.13  | 0.00 | 0.00  |
| Col21 | 51 | 0.09  | 0.00 | 0.00  |
| Col21 | 52 | 0.09  | 0.00 | 0.00  |
| Col22 | 1  | 0.83  | 0.00 | 0.00  |
| Col22 | 2  | 0.13  | 0.00 | 0.00  |
| Col22 | 3  | 0.60  | 0.00 | 0.00  |
| Col22 | 4  | 0.60  | 0.00 | 0.00  |
| Col22 | 5  | 0.66  | 0.00 | 0.00  |
| Col22 | 6  | 0.48  | 0.00 | 0.00  |
| Col22 | 7  | 0.48  | 0.00 | 0.00  |
| Col22 | 8  | -0.31 | 0.00 | -0.40 |
| Col22 | 9  | -0.14 | 0.00 | -0.40 |
| Col22 | 10 | -0.31 | 0.00 | 0.44  |
| Col22 | 11 | -0.14 | 0.00 | 0.44  |
| Col22 | 12 | -0.31 | 0.00 | 0.44  |
| Col22 | 13 | -0.14 | 0.00 | 0.44  |
| Col22 | 14 | -0.17 | 0.00 | 0.44  |
| Col22 | 15 | 0.01  | 0.00 | 0.44  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col122 | 16 | 0.45  | 0.00 | 0.33  |
| Col122 | 17 | 0.58  | 0.00 | 0.33  |
| Col122 | 18 | 0.34  | 0.00 | 0.33  |
| Col122 | 19 | 0.47  | 0.00 | 0.33  |
| Col122 | 20 | 0.27  | 0.00 | 0.33  |
| Col122 | 21 | 0.40  | 0.00 | 0.33  |
| Col122 | 22 | 0.17  | 0.00 | 0.33  |
| Col122 | 23 | 0.29  | 0.00 | 0.33  |
| Col122 | 24 | 0.27  | 0.00 | 0.33  |
| Col122 | 25 | 0.40  | 0.00 | 0.33  |
| Col122 | 26 | 0.17  | 0.00 | 0.33  |
| Col122 | 27 | 0.29  | 0.00 | 0.33  |
| Col122 | 28 | -0.34 | 0.00 | -0.40 |
| Col122 | 29 | -0.17 | 0.00 | -0.40 |
| Col122 | 30 | -0.34 | 0.00 | 0.44  |
| Col122 | 31 | -0.17 | 0.00 | 0.44  |
| Col122 | 32 | -0.34 | 0.00 | 0.44  |
| Col122 | 33 | -0.17 | 0.00 | 0.44  |
| Col122 | 34 | -0.19 | 0.00 | 0.44  |
| Col122 | 35 | -0.02 | 0.00 | 0.44  |
| Col122 | 36 | 0.13  | 0.00 | 0.00  |
| Col122 | 37 | 0.13  | 0.00 | 0.00  |
| Col122 | 38 | 0.66  | 0.00 | 0.00  |
| Col122 | 39 | 0.66  | 0.00 | 0.00  |
| Col122 | 40 | 0.48  | 0.00 | 0.00  |
| Col122 | 41 | 0.49  | 0.00 | 0.00  |
| Col122 | 42 | 0.48  | 0.00 | 0.00  |
| Col122 | 43 | 0.49  | 0.00 | 0.00  |
| Col122 | 44 | 0.08  | 0.00 | 0.00  |
| Col122 | 45 | 0.08  | 0.00 | 0.00  |
| Col122 | 46 | 0.69  | 0.00 | 0.00  |
| Col122 | 47 | 0.34  | 0.00 | 0.33  |
| Col122 | 48 | 0.47  | 0.00 | 0.33  |
| Col122 | 49 | 0.13  | 0.00 | 0.00  |
| Col122 | 50 | 0.13  | 0.00 | 0.00  |
| Col122 | 51 | 0.09  | 0.00 | 0.00  |
| Col122 | 52 | 0.09  | 0.00 | 0.00  |
| Col123 | 1  | 0.83  | 0.00 | 0.00  |
| Col123 | 2  | 0.13  | 0.00 | 0.00  |
| Col123 | 3  | 0.60  | 0.00 | 0.00  |
| Col123 | 4  | 0.60  | 0.00 | 0.00  |
| Col123 | 5  | 0.66  | 0.00 | 0.00  |
| Col123 | 6  | 0.48  | 0.00 | 0.00  |
| Col123 | 7  | 0.48  | 0.00 | 0.00  |
| Col123 | 8  | -0.31 | 0.00 | -0.39 |
| Col123 | 9  | -0.14 | 0.00 | -0.39 |
| Col123 | 10 | -0.31 | 0.00 | 0.43  |
| Col123 | 11 | -0.14 | 0.00 | 0.43  |
| Col123 | 12 | -0.31 | 0.00 | 0.43  |
| Col123 | 13 | -0.14 | 0.00 | 0.43  |
| Col123 | 14 | -0.17 | 0.00 | 0.43  |
| Col123 | 15 | 0.01  | 0.00 | 0.43  |
| Col123 | 16 | 0.45  | 0.00 | 0.32  |
| Col123 | 17 | 0.58  | 0.00 | 0.32  |
| Col123 | 18 | 0.34  | 0.00 | 0.32  |
| Col123 | 19 | 0.47  | 0.00 | 0.32  |
| Col123 | 20 | 0.27  | 0.00 | 0.32  |
| Col123 | 21 | 0.40  | 0.00 | 0.32  |
| Col123 | 22 | 0.17  | 0.00 | 0.32  |
| Col123 | 23 | 0.29  | 0.00 | 0.32  |
| Col123 | 24 | 0.27  | 0.00 | 0.32  |
| Col123 | 25 | 0.40  | 0.00 | 0.32  |
| Col123 | 26 | 0.17  | 0.00 | 0.32  |
| Col123 | 27 | 0.29  | 0.00 | 0.32  |
| Col123 | 28 | -0.34 | 0.00 | -0.39 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col23 | 29 | -0.17 | 0.00 | -0.39 |
| Col23 | 30 | -0.34 | 0.00 | 0.43  |
| Col23 | 31 | -0.17 | 0.00 | 0.43  |
| Col23 | 32 | -0.34 | 0.00 | 0.43  |
| Col23 | 33 | -0.17 | 0.00 | 0.43  |
| Col23 | 34 | -0.19 | 0.00 | 0.43  |
| Col23 | 35 | -0.02 | 0.00 | 0.43  |
| Col23 | 36 | 0.13  | 0.00 | 0.00  |
| Col23 | 37 | 0.13  | 0.00 | 0.00  |
| Col23 | 38 | 0.66  | 0.00 | 0.00  |
| Col23 | 39 | 0.66  | 0.00 | 0.00  |
| Col23 | 40 | 0.48  | 0.00 | 0.00  |
| Col23 | 41 | 0.48  | 0.00 | 0.00  |
| Col23 | 42 | 0.48  | 0.00 | 0.00  |
| Col23 | 43 | 0.48  | 0.00 | 0.00  |
| Col23 | 44 | 0.08  | 0.00 | 0.00  |
| Col23 | 45 | 0.08  | 0.00 | 0.00  |
| Col23 | 46 | 0.69  | 0.00 | 0.00  |
| Col23 | 47 | 0.34  | 0.00 | 0.32  |
| Col23 | 48 | 0.47  | 0.00 | 0.32  |
| Col23 | 49 | 0.13  | 0.00 | 0.00  |
| Col23 | 50 | 0.13  | 0.00 | 0.00  |
| Col23 | 51 | 0.09  | 0.00 | 0.00  |
| Col23 | 52 | 0.09  | 0.00 | 0.00  |
| Col24 | 1  | 0.83  | 0.00 | 0.00  |
| Col24 | 2  | 0.13  | 0.00 | 0.00  |
| Col24 | 3  | 0.60  | 0.00 | 0.00  |
| Col24 | 4  | 0.60  | 0.00 | 0.00  |
| Col24 | 5  | 0.66  | 0.00 | 0.00  |
| Col24 | 6  | 0.48  | 0.00 | 0.00  |
| Col24 | 7  | 0.48  | 0.00 | 0.00  |
| Col24 | 8  | -0.31 | 0.00 | -0.38 |
| Col24 | 9  | -0.14 | 0.00 | -0.38 |
| Col24 | 10 | -0.31 | 0.00 | 0.42  |
| Col24 | 11 | -0.14 | 0.00 | 0.42  |
| Col24 | 12 | -0.31 | 0.00 | 0.42  |
| Col24 | 13 | -0.14 | 0.00 | 0.42  |
| Col24 | 14 | -0.17 | 0.00 | 0.42  |
| Col24 | 15 | 0.01  | 0.00 | 0.42  |
| Col24 | 16 | 0.45  | 0.00 | 0.32  |
| Col24 | 17 | 0.57  | 0.00 | 0.32  |
| Col24 | 18 | 0.34  | 0.00 | 0.32  |
| Col24 | 19 | 0.47  | 0.00 | 0.32  |
| Col24 | 20 | 0.27  | 0.00 | 0.32  |
| Col24 | 21 | 0.40  | 0.00 | 0.32  |
| Col24 | 22 | 0.16  | 0.00 | 0.32  |
| Col24 | 23 | 0.29  | 0.00 | 0.32  |
| Col24 | 24 | 0.27  | 0.00 | 0.32  |
| Col24 | 25 | 0.40  | 0.00 | 0.32  |
| Col24 | 26 | 0.16  | 0.00 | 0.32  |
| Col24 | 27 | 0.29  | 0.00 | 0.32  |
| Col24 | 28 | -0.34 | 0.00 | -0.38 |
| Col24 | 29 | -0.17 | 0.00 | -0.38 |
| Col24 | 30 | -0.34 | 0.00 | 0.42  |
| Col24 | 31 | -0.17 | 0.00 | 0.42  |
| Col24 | 32 | -0.34 | 0.00 | 0.42  |
| Col24 | 33 | -0.17 | 0.00 | 0.42  |
| Col24 | 34 | -0.19 | 0.00 | 0.42  |
| Col24 | 35 | -0.02 | 0.00 | 0.42  |
| Col24 | 36 | 0.13  | 0.00 | 0.00  |
| Col24 | 37 | 0.13  | 0.00 | 0.00  |
| Col24 | 38 | 0.66  | 0.00 | 0.00  |
| Col24 | 39 | 0.66  | 0.00 | 0.00  |
| Col24 | 40 | 0.48  | 0.00 | 0.00  |
| Col24 | 41 | 0.48  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col24 | 42 | 0.48  | 0.00 | 0.00  |
| Col24 | 43 | 0.48  | 0.00 | 0.00  |
| Col24 | 44 | 0.08  | 0.00 | 0.00  |
| Col24 | 45 | 0.08  | 0.00 | 0.00  |
| Col24 | 46 | 0.69  | 0.00 | 0.00  |
| Col24 | 47 | 0.34  | 0.00 | 0.32  |
| Col24 | 48 | 0.47  | 0.00 | 0.32  |
| Col24 | 49 | 0.13  | 0.00 | 0.00  |
| Col24 | 50 | 0.13  | 0.00 | 0.00  |
| Col24 | 51 | 0.08  | 0.00 | 0.00  |
| Col24 | 52 | 0.09  | 0.00 | 0.00  |
| Col25 | 1  | 0.83  | 0.00 | 0.00  |
| Col25 | 2  | 0.13  | 0.00 | 0.00  |
| Col25 | 3  | 0.60  | 0.00 | 0.00  |
| Col25 | 4  | 0.60  | 0.00 | 0.00  |
| Col25 | 5  | 0.66  | 0.00 | 0.00  |
| Col25 | 6  | 0.48  | 0.00 | 0.00  |
| Col25 | 7  | 0.48  | 0.00 | 0.00  |
| Col25 | 8  | -0.31 | 0.00 | -0.38 |
| Col25 | 9  | -0.14 | 0.00 | -0.38 |
| Col25 | 10 | -0.31 | 0.00 | 0.42  |
| Col25 | 11 | -0.14 | 0.00 | 0.42  |
| Col25 | 12 | -0.31 | 0.00 | 0.42  |
| Col25 | 13 | -0.14 | 0.00 | 0.42  |
| Col25 | 14 | -0.17 | 0.00 | 0.42  |
| Col25 | 15 | 0.00  | 0.00 | 0.42  |
| Col25 | 16 | 0.45  | 0.00 | 0.31  |
| Col25 | 17 | 0.57  | 0.00 | 0.31  |
| Col25 | 18 | 0.34  | 0.00 | 0.31  |
| Col25 | 19 | 0.47  | 0.00 | 0.31  |
| Col25 | 20 | 0.27  | 0.00 | 0.31  |
| Col25 | 21 | 0.40  | 0.00 | 0.31  |
| Col25 | 22 | 0.16  | 0.00 | 0.31  |
| Col25 | 23 | 0.29  | 0.00 | 0.31  |
| Col25 | 24 | 0.27  | 0.00 | 0.31  |
| Col25 | 25 | 0.40  | 0.00 | 0.31  |
| Col25 | 26 | 0.16  | 0.00 | 0.31  |
| Col25 | 27 | 0.29  | 0.00 | 0.31  |
| Col25 | 28 | -0.34 | 0.00 | -0.38 |
| Col25 | 29 | -0.17 | 0.00 | -0.38 |
| Col25 | 30 | -0.34 | 0.00 | 0.42  |
| Col25 | 31 | -0.17 | 0.00 | 0.42  |
| Col25 | 32 | -0.34 | 0.00 | 0.42  |
| Col25 | 33 | -0.17 | 0.00 | 0.42  |
| Col25 | 34 | -0.20 | 0.00 | 0.42  |
| Col25 | 35 | -0.02 | 0.00 | 0.42  |
| Col25 | 36 | 0.13  | 0.00 | 0.00  |
| Col25 | 37 | 0.13  | 0.00 | 0.00  |
| Col25 | 38 | 0.66  | 0.00 | 0.00  |
| Col25 | 39 | 0.66  | 0.00 | 0.00  |
| Col25 | 40 | 0.48  | 0.00 | 0.00  |
| Col25 | 41 | 0.48  | 0.00 | 0.00  |
| Col25 | 42 | 0.48  | 0.00 | 0.00  |
| Col25 | 43 | 0.48  | 0.00 | 0.00  |
| Col25 | 44 | 0.08  | 0.00 | 0.00  |
| Col25 | 45 | 0.08  | 0.00 | 0.00  |
| Col25 | 46 | 0.69  | 0.00 | 0.00  |
| Col25 | 47 | 0.34  | 0.00 | 0.31  |
| Col25 | 48 | 0.47  | 0.00 | 0.31  |
| Col25 | 49 | 0.13  | 0.00 | 0.00  |
| Col25 | 50 | 0.13  | 0.00 | 0.00  |
| Col25 | 51 | 0.08  | 0.00 | 0.00  |
| Col25 | 52 | 0.08  | 0.00 | 0.00  |
| Col26 | 1  | 0.83  | 0.00 | 0.00  |
| Col26 | 2  | 0.13  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col26 | 3  | 0.60  | 0.00 | 0.00  |
| Col26 | 4  | 0.60  | 0.00 | 0.00  |
| Col26 | 5  | 0.65  | 0.00 | 0.00  |
| Col26 | 6  | 0.48  | 0.00 | 0.00  |
| Col26 | 7  | 0.48  | 0.00 | 0.00  |
| Col26 | 8  | -0.31 | 0.00 | -0.37 |
| Col26 | 9  | -0.14 | 0.00 | -0.37 |
| Col26 | 10 | -0.31 | 0.00 | 0.42  |
| Col26 | 11 | -0.14 | 0.00 | 0.42  |
| Col26 | 12 | -0.31 | 0.00 | 0.42  |
| Col26 | 13 | -0.14 | 0.00 | 0.42  |
| Col26 | 14 | -0.17 | 0.00 | 0.42  |
| Col26 | 15 | 0.00  | 0.00 | 0.42  |
| Col26 | 16 | 0.44  | 0.00 | 0.32  |
| Col26 | 17 | 0.57  | 0.00 | 0.32  |
| Col26 | 18 | 0.34  | 0.00 | 0.32  |
| Col26 | 19 | 0.47  | 0.00 | 0.32  |
| Col26 | 20 | 0.27  | 0.00 | 0.32  |
| Col26 | 21 | 0.40  | 0.00 | 0.32  |
| Col26 | 22 | 0.16  | 0.00 | 0.32  |
| Col26 | 23 | 0.29  | 0.00 | 0.32  |
| Col26 | 24 | 0.27  | 0.00 | 0.32  |
| Col26 | 25 | 0.40  | 0.00 | 0.32  |
| Col26 | 26 | 0.16  | 0.00 | 0.32  |
| Col26 | 27 | 0.29  | 0.00 | 0.32  |
| Col26 | 28 | -0.34 | 0.00 | -0.37 |
| Col26 | 29 | -0.17 | 0.00 | -0.37 |
| Col26 | 30 | -0.34 | 0.00 | 0.42  |
| Col26 | 31 | -0.17 | 0.00 | 0.42  |
| Col26 | 32 | -0.34 | 0.00 | 0.42  |
| Col26 | 33 | -0.17 | 0.00 | 0.42  |
| Col26 | 34 | -0.20 | 0.00 | 0.42  |
| Col26 | 35 | -0.02 | 0.00 | 0.42  |
| Col26 | 36 | 0.13  | 0.00 | 0.00  |
| Col26 | 37 | 0.13  | 0.00 | 0.00  |
| Col26 | 38 | 0.66  | 0.00 | 0.00  |
| Col26 | 39 | 0.66  | 0.00 | 0.00  |
| Col26 | 40 | 0.48  | 0.00 | 0.00  |
| Col26 | 41 | 0.48  | 0.00 | 0.00  |
| Col26 | 42 | 0.48  | 0.00 | 0.00  |
| Col26 | 43 | 0.48  | 0.00 | 0.00  |
| Col26 | 44 | 0.08  | 0.00 | 0.00  |
| Col26 | 45 | 0.08  | 0.00 | 0.00  |
| Col26 | 46 | 0.69  | 0.00 | 0.00  |
| Col26 | 47 | 0.34  | 0.00 | 0.32  |
| Col26 | 48 | 0.47  | 0.00 | 0.32  |
| Col26 | 49 | 0.13  | 0.00 | 0.00  |
| Col26 | 50 | 0.13  | 0.00 | 0.00  |
| Col26 | 51 | 0.08  | 0.00 | 0.00  |
| Col26 | 52 | 0.08  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

| Id    | Load |       | Deflection(in) |  |
|-------|------|-------|----------------|--|
|       | Id   | Calc  | Limit          |  |
| Col20 | 1    | 0.00  | 1.09           |  |
| Col20 | 2    | 0.00  | 1.09           |  |
| Col20 | 3    | 0.00  | 1.09           |  |
| Col20 | 4    | 0.00  | 1.09           |  |
| Col20 | 5    | 0.00  | 1.09           |  |
| Col20 | 6    | 0.00  | 1.09           |  |
| Col20 | 7    | 0.00  | 1.09           |  |
| Col20 | 8    | -0.71 | 1.09           |  |
| Col20 | 9    | -0.71 | 1.09           |  |

|       |    |       |      |
|-------|----|-------|------|
| Col20 | 10 | 0.80  | 1.09 |
| Col20 | 11 | 0.80  | 1.09 |
| Col20 | 12 | 0.80  | 1.09 |
| Col20 | 13 | 0.80  | 1.09 |
| Col20 | 14 | 0.80  | 1.09 |
| Col20 | 15 | 0.80  | 1.09 |
| Col20 | 16 | 0.60  | 1.09 |
| Col20 | 17 | 0.60  | 1.09 |
| Col20 | 18 | 0.60  | 1.09 |
| Col20 | 19 | 0.60  | 1.09 |
| Col20 | 20 | 0.60  | 1.09 |
| Col20 | 21 | 0.60  | 1.09 |
| Col20 | 22 | 0.60  | 1.09 |
| Col20 | 23 | 0.60  | 1.09 |
| Col20 | 24 | 0.60  | 1.09 |
| Col20 | 25 | 0.60  | 1.09 |
| Col20 | 26 | 0.60  | 1.09 |
| Col20 | 27 | 0.60  | 1.09 |
| Col20 | 28 | -0.71 | 1.09 |
| Col20 | 29 | -0.71 | 1.09 |
| Col20 | 30 | 0.80  | 1.09 |
| Col20 | 31 | 0.80  | 1.09 |
| Col20 | 32 | 0.80  | 1.09 |
| Col20 | 33 | 0.80  | 1.09 |
| Col20 | 34 | 0.80  | 1.09 |
| Col20 | 35 | 0.80  | 1.09 |
| Col20 | 36 | 0.00  | 1.09 |
| Col20 | 37 | 0.00  | 1.09 |
| Col20 | 38 | 0.00  | 1.09 |
| Col20 | 39 | 0.00  | 1.09 |
| Col20 | 40 | 0.00  | 1.09 |
| Col20 | 41 | 0.00  | 1.09 |
| Col20 | 42 | 0.00  | 1.09 |
| Col20 | 43 | 0.00  | 1.09 |
| Col20 | 44 | 0.00  | 1.09 |
| Col20 | 45 | 0.00  | 1.09 |
| Col20 | 46 | 0.00  | 1.09 |
| Col20 | 47 | 0.36  | 1.09 |
| Col20 | 48 | 0.36  | 1.09 |
| Col21 | 1  | 0.00  | 1.07 |
| Col21 | 2  | 0.00  | 1.07 |
| Col21 | 3  | 0.00  | 1.07 |
| Col21 | 4  | 0.00  | 1.07 |
| Col21 | 5  | 0.00  | 1.07 |
| Col21 | 6  | 0.00  | 1.07 |
| Col21 | 7  | 0.00  | 1.07 |
| Col21 | 8  | -0.68 | 1.07 |
| Col21 | 9  | -0.68 | 1.07 |
| Col21 | 10 | 0.75  | 1.07 |
| Col21 | 11 | 0.75  | 1.07 |
| Col21 | 12 | 0.75  | 1.07 |
| Col21 | 13 | 0.75  | 1.07 |
| Col21 | 14 | 0.75  | 1.07 |
| Col21 | 15 | 0.75  | 1.07 |
| Col21 | 16 | 0.56  | 1.07 |
| Col21 | 17 | 0.56  | 1.07 |
| Col21 | 18 | 0.56  | 1.07 |
| Col21 | 19 | 0.56  | 1.07 |
| Col21 | 20 | 0.56  | 1.07 |
| Col21 | 21 | 0.56  | 1.07 |
| Col21 | 22 | 0.56  | 1.07 |
| Col21 | 23 | 0.56  | 1.07 |
| Col21 | 24 | 0.56  | 1.07 |
| Col21 | 25 | 0.56  | 1.07 |
| Col21 | 26 | 0.56  | 1.07 |

|       |    |       |      |
|-------|----|-------|------|
| Col21 | 27 | 0.56  | 1.07 |
| Col21 | 28 | -0.68 | 1.07 |
| Col21 | 29 | -0.68 | 1.07 |
| Col21 | 30 | 0.75  | 1.07 |
| Col21 | 31 | 0.75  | 1.07 |
| Col21 | 32 | 0.75  | 1.07 |
| Col21 | 33 | 0.75  | 1.07 |
| Col21 | 34 | 0.75  | 1.07 |
| Col21 | 35 | 0.75  | 1.07 |
| Col21 | 36 | 0.00  | 1.07 |
| Col21 | 37 | 0.00  | 1.07 |
| Col21 | 38 | 0.00  | 1.07 |
| Col21 | 39 | 0.00  | 1.07 |
| Col21 | 40 | 0.00  | 1.07 |
| Col21 | 41 | 0.00  | 1.07 |
| Col21 | 42 | 0.00  | 1.07 |
| Col21 | 43 | 0.00  | 1.07 |
| Col21 | 44 | 0.00  | 1.07 |
| Col21 | 45 | 0.00  | 1.07 |
| Col21 | 46 | 0.00  | 1.07 |
| Col21 | 47 | 0.34  | 1.07 |
| Col21 | 48 | 0.34  | 1.07 |
| Col22 | 1  | 0.00  | 1.06 |
| Col22 | 2  | 0.00  | 1.06 |
| Col22 | 3  | 0.00  | 1.06 |
| Col22 | 4  | 0.00  | 1.06 |
| Col22 | 5  | 0.00  | 1.06 |
| Col22 | 6  | 0.00  | 1.06 |
| Col22 | 7  | 0.00  | 1.06 |
| Col22 | 8  | -0.64 | 1.06 |
| Col22 | 9  | -0.64 | 1.06 |
| Col22 | 10 | 0.71  | 1.06 |
| Col22 | 11 | 0.71  | 1.06 |
| Col22 | 12 | 0.71  | 1.06 |
| Col22 | 13 | 0.71  | 1.06 |
| Col22 | 14 | 0.71  | 1.06 |
| Col22 | 15 | 0.71  | 1.06 |
| Col22 | 16 | 0.53  | 1.06 |
| Col22 | 17 | 0.53  | 1.06 |
| Col22 | 18 | 0.53  | 1.06 |
| Col22 | 19 | 0.53  | 1.06 |
| Col22 | 20 | 0.53  | 1.06 |
| Col22 | 21 | 0.53  | 1.06 |
| Col22 | 22 | 0.53  | 1.06 |
| Col22 | 23 | 0.53  | 1.06 |
| Col22 | 24 | 0.53  | 1.06 |
| Col22 | 25 | 0.53  | 1.06 |
| Col22 | 26 | 0.53  | 1.06 |
| Col22 | 27 | 0.53  | 1.06 |
| Col22 | 28 | -0.64 | 1.06 |
| Col22 | 29 | -0.64 | 1.06 |
| Col22 | 30 | 0.71  | 1.06 |
| Col22 | 31 | 0.71  | 1.06 |
| Col22 | 32 | 0.71  | 1.06 |
| Col22 | 33 | 0.71  | 1.06 |
| Col22 | 34 | 0.71  | 1.06 |
| Col22 | 35 | 0.71  | 1.06 |
| Col22 | 36 | 0.00  | 1.06 |
| Col22 | 37 | 0.00  | 1.06 |
| Col22 | 38 | 0.00  | 1.06 |
| Col22 | 39 | 0.00  | 1.06 |
| Col22 | 40 | 0.00  | 1.06 |
| Col22 | 41 | 0.00  | 1.06 |
| Col22 | 42 | 0.00  | 1.06 |
| Col22 | 43 | 0.00  | 1.06 |

|       |    |       |      |
|-------|----|-------|------|
| Col22 | 44 | 0.00  | 1.06 |
| Col22 | 45 | 0.00  | 1.06 |
| Col22 | 46 | 0.00  | 1.06 |
| Col22 | 47 | 0.32  | 1.06 |
| Col22 | 48 | 0.32  | 1.06 |
| Col23 | 1  | 0.00  | 1.04 |
| Col23 | 2  | 0.00  | 1.04 |
| Col23 | 3  | 0.00  | 1.04 |
| Col23 | 4  | 0.00  | 1.04 |
| Col23 | 5  | 0.00  | 1.04 |
| Col23 | 6  | 0.00  | 1.04 |
| Col23 | 7  | 0.00  | 1.04 |
| Col23 | 8  | -0.61 | 1.04 |
| Col23 | 9  | -0.61 | 1.04 |
| Col23 | 10 | 0.67  | 1.04 |
| Col23 | 11 | 0.67  | 1.04 |
| Col23 | 12 | 0.67  | 1.04 |
| Col23 | 13 | 0.67  | 1.04 |
| Col23 | 14 | 0.67  | 1.04 |
| Col23 | 15 | 0.67  | 1.04 |
| Col23 | 16 | 0.50  | 1.04 |
| Col23 | 17 | 0.50  | 1.04 |
| Col23 | 18 | 0.50  | 1.04 |
| Col23 | 19 | 0.50  | 1.04 |
| Col23 | 20 | 0.50  | 1.04 |
| Col23 | 21 | 0.50  | 1.04 |
| Col23 | 22 | 0.50  | 1.04 |
| Col23 | 23 | 0.50  | 1.04 |
| Col23 | 24 | 0.50  | 1.04 |
| Col23 | 25 | 0.50  | 1.04 |
| Col23 | 26 | 0.50  | 1.04 |
| Col23 | 27 | 0.50  | 1.04 |
| Col23 | 28 | -0.61 | 1.04 |
| Col23 | 29 | -0.61 | 1.04 |
| Col23 | 30 | 0.67  | 1.04 |
| Col23 | 31 | 0.67  | 1.04 |
| Col23 | 32 | 0.67  | 1.04 |
| Col23 | 33 | 0.67  | 1.04 |
| Col23 | 34 | 0.67  | 1.04 |
| Col23 | 35 | 0.67  | 1.04 |
| Col23 | 36 | 0.00  | 1.04 |
| Col23 | 37 | 0.00  | 1.04 |
| Col23 | 38 | 0.00  | 1.04 |
| Col23 | 39 | 0.00  | 1.04 |
| Col23 | 40 | 0.00  | 1.04 |
| Col23 | 41 | 0.00  | 1.04 |
| Col23 | 42 | 0.00  | 1.04 |
| Col23 | 43 | 0.00  | 1.04 |
| Col23 | 44 | 0.00  | 1.04 |
| Col23 | 45 | 0.00  | 1.04 |
| Col23 | 46 | 0.00  | 1.04 |
| Col23 | 47 | 0.30  | 1.04 |
| Col23 | 48 | 0.30  | 1.04 |
| Col24 | 1  | 0.00  | 1.03 |
| Col24 | 2  | 0.00  | 1.03 |
| Col24 | 3  | 0.00  | 1.03 |
| Col24 | 4  | 0.00  | 1.03 |
| Col24 | 5  | 0.00  | 1.03 |
| Col24 | 6  | 0.00  | 1.03 |
| Col24 | 7  | 0.00  | 1.03 |
| Col24 | 8  | -0.58 | 1.03 |
| Col24 | 9  | -0.58 | 1.03 |
| Col24 | 10 | 0.64  | 1.03 |
| Col24 | 11 | 0.64  | 1.03 |
| Col24 | 12 | 0.64  | 1.03 |

|       |    |       |      |
|-------|----|-------|------|
| Col24 | 13 | 0.64  | 1.03 |
| Col24 | 14 | 0.64  | 1.03 |
| Col24 | 15 | 0.64  | 1.03 |
| Col24 | 16 | 0.48  | 1.03 |
| Col24 | 17 | 0.48  | 1.03 |
| Col24 | 18 | 0.48  | 1.03 |
| Col24 | 19 | 0.48  | 1.03 |
| Col24 | 20 | 0.48  | 1.03 |
| Col24 | 21 | 0.48  | 1.03 |
| Col24 | 22 | 0.48  | 1.03 |
| Col24 | 23 | 0.48  | 1.03 |
| Col24 | 24 | 0.48  | 1.03 |
| Col24 | 25 | 0.48  | 1.03 |
| Col24 | 26 | 0.48  | 1.03 |
| Col24 | 27 | 0.48  | 1.03 |
| Col24 | 28 | -0.58 | 1.03 |
| Col24 | 29 | -0.58 | 1.03 |
| Col24 | 30 | 0.64  | 1.03 |
| Col24 | 31 | 0.64  | 1.03 |
| Col24 | 32 | 0.64  | 1.03 |
| Col24 | 33 | 0.64  | 1.03 |
| Col24 | 34 | 0.64  | 1.03 |
| Col24 | 35 | 0.64  | 1.03 |
| Col24 | 36 | 0.00  | 1.03 |
| Col24 | 37 | 0.00  | 1.03 |
| Col24 | 38 | 0.00  | 1.03 |
| Col24 | 39 | 0.00  | 1.03 |
| Col24 | 40 | 0.00  | 1.03 |
| Col24 | 41 | 0.00  | 1.03 |
| Col24 | 42 | 0.00  | 1.03 |
| Col24 | 43 | 0.00  | 1.03 |
| Col24 | 44 | 0.00  | 1.03 |
| Col24 | 45 | 0.00  | 1.03 |
| Col24 | 46 | 0.00  | 1.03 |
| Col24 | 47 | 0.29  | 1.03 |
| Col24 | 48 | 0.29  | 1.03 |
| Col25 | 1  | 0.00  | 1.02 |
| Col25 | 2  | 0.00  | 1.02 |
| Col25 | 3  | 0.00  | 1.02 |
| Col25 | 4  | 0.00  | 1.02 |
| Col25 | 5  | 0.00  | 1.02 |
| Col25 | 6  | 0.00  | 1.02 |
| Col25 | 7  | 0.00  | 1.02 |
| Col25 | 8  | -0.55 | 1.02 |
| Col25 | 9  | -0.55 | 1.02 |
| Col25 | 10 | 0.60  | 1.02 |
| Col25 | 11 | 0.60  | 1.02 |
| Col25 | 12 | 0.60  | 1.02 |
| Col25 | 13 | 0.60  | 1.02 |
| Col25 | 14 | 0.60  | 1.02 |
| Col25 | 15 | 0.60  | 1.02 |
| Col25 | 16 | 0.45  | 1.02 |
| Col25 | 17 | 0.45  | 1.02 |
| Col25 | 18 | 0.45  | 1.02 |
| Col25 | 19 | 0.45  | 1.02 |
| Col25 | 20 | 0.45  | 1.02 |
| Col25 | 21 | 0.45  | 1.02 |
| Col25 | 22 | 0.45  | 1.02 |
| Col25 | 23 | 0.45  | 1.02 |
| Col25 | 24 | 0.45  | 1.02 |
| Col25 | 25 | 0.45  | 1.02 |
| Col25 | 26 | 0.45  | 1.02 |
| Col25 | 27 | 0.45  | 1.02 |
| Col25 | 28 | -0.55 | 1.02 |
| Col25 | 29 | -0.55 | 1.02 |

|       |    |       |      |
|-------|----|-------|------|
| Col25 | 30 | 0.60  | 1.02 |
| Col25 | 31 | 0.60  | 1.02 |
| Col25 | 32 | 0.60  | 1.02 |
| Col25 | 33 | 0.60  | 1.02 |
| Col25 | 34 | 0.60  | 1.02 |
| Col25 | 35 | 0.60  | 1.02 |
| Col25 | 36 | 0.00  | 1.02 |
| Col25 | 37 | 0.00  | 1.02 |
| Col25 | 38 | 0.00  | 1.02 |
| Col25 | 39 | 0.00  | 1.02 |
| Col25 | 40 | 0.00  | 1.02 |
| Col25 | 41 | 0.00  | 1.02 |
| Col25 | 42 | 0.00  | 1.02 |
| Col25 | 43 | 0.00  | 1.02 |
| Col25 | 44 | 0.00  | 1.02 |
| Col25 | 45 | 0.00  | 1.02 |
| Col25 | 46 | 0.00  | 1.02 |
| Col25 | 47 | 0.27  | 1.02 |
| Col25 | 48 | 0.27  | 1.02 |
| Col26 | 1  | 0.00  | 1.00 |
| Col26 | 2  | 0.00  | 1.00 |
| Col26 | 3  | 0.00  | 1.00 |
| Col26 | 4  | 0.00  | 1.00 |
| Col26 | 5  | 0.00  | 1.00 |
| Col26 | 6  | 0.00  | 1.00 |
| Col26 | 7  | 0.00  | 1.00 |
| Col26 | 8  | -0.52 | 1.00 |
| Col26 | 9  | -0.52 | 1.00 |
| Col26 | 10 | 0.58  | 1.00 |
| Col26 | 11 | 0.58  | 1.00 |
| Col26 | 12 | 0.58  | 1.00 |
| Col26 | 13 | 0.58  | 1.00 |
| Col26 | 14 | 0.58  | 1.00 |
| Col26 | 15 | 0.58  | 1.00 |
| Col26 | 16 | 0.44  | 1.00 |
| Col26 | 17 | 0.44  | 1.00 |
| Col26 | 18 | 0.44  | 1.00 |
| Col26 | 19 | 0.44  | 1.00 |
| Col26 | 20 | 0.44  | 1.00 |
| Col26 | 21 | 0.44  | 1.00 |
| Col26 | 22 | 0.44  | 1.00 |
| Col26 | 23 | 0.44  | 1.00 |
| Col26 | 24 | 0.44  | 1.00 |
| Col26 | 25 | 0.44  | 1.00 |
| Col26 | 26 | 0.44  | 1.00 |
| Col26 | 27 | 0.44  | 1.00 |
| Col26 | 28 | -0.52 | 1.00 |
| Col26 | 29 | -0.52 | 1.00 |
| Col26 | 30 | 0.58  | 1.00 |
| Col26 | 31 | 0.58  | 1.00 |
| Col26 | 32 | 0.58  | 1.00 |
| Col26 | 33 | 0.58  | 1.00 |
| Col26 | 34 | 0.58  | 1.00 |
| Col26 | 35 | 0.58  | 1.00 |
| Col26 | 36 | 0.00  | 1.00 |
| Col26 | 37 | 0.00  | 1.00 |
| Col26 | 38 | 0.00  | 1.00 |
| Col26 | 39 | 0.00  | 1.00 |
| Col26 | 40 | 0.00  | 1.00 |
| Col26 | 41 | 0.00  | 1.00 |
| Col26 | 42 | 0.00  | 1.00 |
| Col26 | 43 | 0.00  | 1.00 |
| Col26 | 44 | 0.00  | 1.00 |
| Col26 | 45 | 0.00  | 1.00 |
| Col26 | 46 | 0.00  | 1.00 |

|       |    |      |      |
|-------|----|------|------|
| Col26 | 47 | 0.26 | 1.00 |
| Col26 | 48 | 0.26 | 1.00 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col20 | 16.3          | 5.3            | 5.3   | 85           | 85    | 0.00                             | 0.00 |
| Col21 | 16.1          | 5.1            | 5.1   | 83           | 82    | 0.00                             | 0.00 |
| Col22 | 15.9          | 4.9            | 4.9   | 82           | 79    | 0.00                             | 0.00 |
| Col23 | 15.7          | 4.7            | 4.7   | 81           | 75    | 0.00                             | 0.00 |
| Col24 | 15.5          | 4.5            | 4.5   | 80           | 72    | 0.00                             | 0.00 |
| Col25 | 15.3          | 4.3            | 4.3   | 79           | 68    | 0.00                             | 0.00 |
| Col26 | 15.0          | 4.0            | 4.0   | 78           | 65    | 0.00                             | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 1      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 2      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 3      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 4      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 5      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 6      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 7      | 1       | 3.667  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.500         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.500         | 0.00                       | 0.70 |
| 8      | 1       | 3.667  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.625         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.625         | 0.00                       | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k) - |       | Moment(f-k) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|-------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc        | Limit |        | Calc        | Limit |
| 1      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.12        | 3.32  | 0.13        | 2.65  | 0.05   | 0.00        | 0.60  |
| 2      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.05   | 0.00        | 0.60  |
| 3      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.10       | 3.32  | -0.11       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.11        | 3.32  | 0.12        | 2.65  | 0.04   | 0.00        | 0.60  |
| 4      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.12        | 2.65  | 0.04   | 0.00        | 0.60  |
| 5      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
| 6      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |
|        | 3       | WP   | -0.09       | 3.32  | -0.10       | 2.65  | 0.04   | 0.00        | 0.60  |
|        |         | WS   | 0.10        | 3.32  | 0.11        | 2.65  | 0.04   | 0.00        | 0.60  |
| 7      | 1       | WP   | -0.08       | 3.32  | -0.09       | 2.65  | 0.03   | 0.00        | 0.60  |
|        |         | WS   | 0.09        | 3.32  | 0.10        | 2.65  | 0.04   | 0.00        | 0.60  |

|   |   |    |       |      |       |      |      |      |      |
|---|---|----|-------|------|-------|------|------|------|------|
|   | 3 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.60 |
|   |   | WS | 0.09  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.60 |
| 8 | 1 | WP | -0.08 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.62 |
|   |   | WS | 0.10  | 3.32 | 0.11  | 2.65 | 0.04 | 0.00 | 0.62 |
|   | 3 | WP | -0.09 | 3.32 | -0.10 | 2.65 | 0.04 | 0.00 | 0.62 |
|   |   | WS | 0.10  | 3.32 | 0.12  | 2.65 | 0.04 | 0.00 | 0.62 |

WP - Wind\_Pressure

WS - Wind\_Suction

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=====
T                               Right EW - Wall Panel Design                2/13/23 10:19am
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PANEL DATA:

| Bay | Part    | Type | Gage  | Yield |
|-----|---------|------|-------|-------|
| --- | -----   | ---- | ----- | ----- |
| 1   | CUSPANL | CP   | 20.00 | 50.0  |

MOMENTS & DEFLECTION:

|      |             | -----Moment (ft-lb/ft)----- |      |       |       |         |       |       |       |       |              |       |  |
|------|-------------|-----------------------------|------|-------|-------|---------|-------|-------|-------|-------|--------------|-------|--|
| Span | Locate (ft) |                             |      | Start |       | Midspan |       | End   |       | Max   | Deflect (in) |       |  |
| Id   | Start       | End                         | Load | Calc  | Limit | Calc    | Limit | Calc  | Limit | UC    | Calc         | Limit |  |
| ---- | -----       | -----                       | ---- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----        | ----- |  |
| 1    | 0.00        | 3.67                        | WP   | 0.0   | 38.1  | -12.4   | 49.1  | 18.7  | 38.1  | 0.49  | -0.10        | 0.73  |  |
|      |             |                             | WS   | 0.0   | 38.1  | 16.5    | 38.1  | -24.9 | 49.1  | 0.51  | 0.14         | 0.73  |  |
| 2    | 3.67        | 7.33                        | WP   | 18.7  | 38.1  | -7.7    | 49.1  | 8.0   | 38.1  | 0.49  | -0.05        | 0.73  |  |
|      |             |                             | WS   | -24.9 | 49.1  | 10.2    | 38.1  | -10.7 | 49.1  | 0.51  | 0.07         | 0.73  |  |
| 3    | 7.33        | 11.00                       | WP   | 8.0   | 38.1  | -2.4    | 49.1  | 32.0  | 38.1  | 0.84  | 0.04         | 0.73  |  |
|      |             |                             | WS   | -10.7 | 49.1  | 3.2     | 38.1  | -42.6 | 49.1  | 0.87  | -0.05        | 0.73  |  |
| 4    | 11.00       | 16.26                       | WP   | 32.0  | 38.1  | -28.1   | 49.1  | 0.0   | 38.1  | 0.84  | -0.52        | 1.05  |  |
|      |             |                             | WS   | -42.6 | 49.1  | 37.5    | 38.1  | 0.0   | 38.1  | 0.98  | 0.69         | 1.05  |  |

WP - Wind\_Pressure

WS - Wind\_Suction

PANEL:

| Part    | Thick<br>(in) | Yield<br>(ksi ) | Tensile<br>Strength<br>(ksi ) |
|---------|---------------|-----------------|-------------------------------|
| CUSPANL | 0.038         | 50.00           | 65.00                         |

GIRT SCREWS:

| Part | Dia<br>(in) | Washer<br>(in) | Limit<br>(k ) |
|------|-------------|----------------|---------------|
| #29  | 0.21        | 0.50           | 2.90          |

PANEL ZONE LAYOUT:

|      |             | --Girt (ft,ft,in)-- |         |     |        | Panel |       |
|------|-------------|---------------------|---------|-----|--------|-------|-------|
| Zone |             | ----Wall (ft)----   |         | Bay | Load   | Min   | Span  |
| Id   | Description | Offset1             | Offset2 | Id  | Locate | Width | Thick |
|      |             | Offset1             | Offset2 | Id  | Locate | Width | Thick |
| 1    | Interior    | 4.00                | 36.00   | 1   | 11.00  | 4.47  | 0.059 |
| 2    | Lt Edge     | 0.00                | 4.00    | 1   | 11.00  | 4.47  | 0.059 |
| 3    | Rt Edge     | 36.00               | 40.00   | 8   | 11.00  | 3.74  | 0.059 |

GIRT SCREW CHECK:

|      |       | Wind    | -----Limit(k )----- |         |          |         |      |
|------|-------|---------|---------------------|---------|----------|---------|------|
| Zone | Screw | Suction | Load                | Girt    | Panel    | Screw   | Max  |
| Id   | Space | (psf )  | (k )                | Pullout | Pullover | Tension | UC   |
| 1    | 1.00  | 16.38   | 0.07                | 0.22    | 0.61     | 0.77    | 0.33 |
| 2    | 1.00  | 16.38   | 0.07                | 0.22    | 0.61     | 0.77    | 0.33 |
| 3    | 1.00  | 16.38   | 0.06                | 0.22    | 0.61     | 0.77    | 0.28 |

# WALL LAYOUT:

| Wall<br>Id | Orn | Load<br>Width |
|------------|-----|---------------|
| 4          | L   | 2.50          |

# MEMBER LAYOUT:

| Locate |       | ---Web (in)--- |       | -Flange (in)- |       | Length | Weight | ----Max_Load---- |    |      |         |
|--------|-------|----------------|-------|---------------|-------|--------|--------|------------------|----|------|---------|
| Id     | (ft)  | Part           | Depth | Thick         | Width | Thick  | (ft)   | (lb)             | Id | UC   | Report  |
| Col28  | 0.0   | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.29 | Mom+Axl |
| Col29  | 4.7   | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.55 | Mom+Axl |
| Col30  | 9.3   | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col31  | 14.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col32  | 18.7  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col33  | 23.3  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col34  | 28.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col35  | 32.7  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col36  | 37.3  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col37  | 42.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col38  | 46.7  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col39  | 51.3  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col40  | 56.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col41  | 60.7  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col42  | 65.3  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col43  | 70.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col44  | 74.7  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col45  | 79.3  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col46  | 84.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col47  | 88.7  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col48  | 93.3  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col49  | 98.0  | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 1  | 0.03 | Mom+Axl |
| Col50  | 102.7 | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.53 | Mom+Axl |
| Col51  | 107.3 | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.55 | Mom+Axl |
| Col52  | 112.0 | 6X2C16         | 6.00  | 16ga          | 2.00  | 16ga   | 14.8   | 32.4             | 15 | 0.29 | Mom+Axl |
| Raf5   |       | PB6EC          | 6.13  | 16ga          | 2.06  | 16ga   | 28.0   | 58.8             |    |      |         |
| Raf6   |       | PB6EC          | 6.13  | 16ga          | 2.06  | 16ga   | 28.0   | 58.8             |    |      |         |
| Raf7   |       | PB6EC          | 6.13  | 16ga          | 2.06  | 16ga   | 28.0   | 58.8             |    |      |         |
| Raf8   |       | PB6EC          | 6.13  | 16ga          | 2.06  | 16ga   | 28.0   | 58.8             |    |      |         |
| Total= |       |                |       |               |       |        |        | 1045.0           |    |      |         |

# DESIGN ACTIONS/STRENGTH:

| Id    | Load<br>Id | -Axial(k )-<br>Calc Limit | -Shear(k )-<br>Calc Limit | Moment(f-k )<br>Calc Limit | -----Unity Check-----<br>Axial+ Shear+<br>Moment Moment |
|-------|------------|---------------------------|---------------------------|----------------------------|---------------------------------------------------------|
| Col28 | 1          | 0.17 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.02 0.00 0.02 0.00                                     |
| Col28 | 2          | 0.05 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.01 0.00 0.01 0.00                                     |
| Col28 | 3          | 0.13 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.02 0.00 0.02 0.00                                     |
| Col28 | 4          | 0.13 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.02 0.00 0.02 0.00                                     |
| Col28 | 5          | 0.14 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.02 0.00 0.02 0.00                                     |
| Col28 | 6          | 0.11 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.01 0.00 0.01 0.00                                     |
| Col28 | 7          | 0.11 8.41                 | 0.00 3.32                 | 0.00 2.65                  | 0.01 0.00 0.01 0.00                                     |
| Col28 | 8          | -0.02 21.18               | 0.17 3.32                 | -0.64 2.65                 | 0.00 0.05 0.24 0.00                                     |
| Col28 | 9          | 0.01 8.41                 | 0.17 3.32                 | -0.64 2.65                 | 0.00 0.05 0.24 0.00                                     |
| Col28 | 10         | -0.02 21.18               | -0.20 3.32                | 0.75 2.65                  | 0.00 0.06 0.28 0.00                                     |
| Col28 | 11         | 0.01 8.41                 | -0.20 3.32                | 0.75 2.65                  | 0.00 0.06 0.28 0.00                                     |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col28 | 12 | -0.02 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 13 | 0.01  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 14 | 0.00  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 15 | 0.03  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.29 | 0.00 |
| Col28 | 16 | 0.10  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 17 | 0.13  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.23 | 0.00 |
| Col28 | 18 | 0.09  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 19 | 0.11  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.23 | 0.00 |
| Col28 | 20 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 21 | 0.10  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 22 | 0.06  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 23 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 24 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 25 | 0.10  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 26 | 0.06  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 27 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 28 | -0.03 | 21.18 | 0.17  | 3.32 | -0.64 | 2.65 | 0.00 | 0.05 | 0.24 | 0.00 |
| Col28 | 29 | 0.00  | 8.41  | 0.17  | 3.32 | -0.64 | 2.65 | 0.00 | 0.05 | 0.24 | 0.00 |
| Col28 | 30 | -0.03 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 31 | 0.00  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 32 | -0.03 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 33 | 0.00  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 34 | 0.00  | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col28 | 35 | 0.03  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.29 | 0.00 |
| Col28 | 36 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 37 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 38 | 0.14  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 39 | 0.14  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 40 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 41 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 42 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 43 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 44 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 45 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 46 | 0.15  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col28 | 47 | 0.09  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col28 | 48 | 0.11  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.23 | 0.00 |
| Col28 | 49 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 50 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 51 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col28 | 52 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col29 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col29 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col29 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col29 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col29 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col29 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col29 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col29 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col29 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col29 | 10 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col29 | 11 | -0.02 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col29 | 12 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col29 | 13 | -0.02 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col29 | 14 | -0.03 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col29 | 15 | 0.03  | 8.41  | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.55 | 0.00 |
| Col29 | 16 | 0.18  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col29 | 17 | 0.22  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.03 | 0.09 | 0.43 | 0.00 |
| Col29 | 18 | 0.14  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col29 | 19 | 0.18  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col29 | 20 | 0.12  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col29 | 21 | 0.16  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col29 | 22 | 0.08  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col29 | 23 | 0.13  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col29 | 24 | 0.12  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col129 | 25 | 0.16  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col129 | 26 | 0.08  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col129 | 27 | 0.13  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col129 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col129 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col129 | 30 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col129 | 31 | -0.03 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col129 | 32 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col129 | 33 | -0.03 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col129 | 34 | -0.04 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col129 | 35 | 0.02  | 8.41  | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.55 | 0.00 |
| Col129 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col129 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col129 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col129 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col129 | 47 | 0.14  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col129 | 48 | 0.18  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col129 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col129 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col130 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col130 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col130 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col130 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col130 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col130 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col130 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col130 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col130 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col130 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col130 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col130 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col130 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col130 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col130 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col130 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col130 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col130 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col130 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col130 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col130 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col130 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col130 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col130 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col130 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|       |    |       |       |       |      |      |      |      |      |      |      |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|
| Col30 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col30 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col30 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col30 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col30 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col30 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col30 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col30 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col30 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col30 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05 | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col30 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05 | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col30 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col30 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col30 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col30 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col31 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col31 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col31 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col31 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col31 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col31 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col31 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col31 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col31 | 23 | 0.13  | 10.79 | 0.00  | 3    |      |      |      |      |      |      |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col131 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col131 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col132 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col132 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col132 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col132 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col132 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col132 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col132 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col132 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col132 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col132 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col132 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col132 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col132 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col132 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col132 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col132 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col132 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col132 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col132 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col132 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col132 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col132 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col132 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col132 | 36 |       |       |       |      |       |      |      |      |      |      |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col133 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col133 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col133 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col133 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col133 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col133 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col133 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col133 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col133 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col133 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col133 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col133 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col133 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col133 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col133 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col133 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col133 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col133 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col133 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col133 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col133 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col133 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col133 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col133 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col133 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col133 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col134 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col134 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col134 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 23 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col134 | 24 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col34 | 25 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 26 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 27 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 28 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 29 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 30 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 31 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 32 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 33 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 34 | -0.04 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 35 | 0.02  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col34 | 36 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 37 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 38 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 39 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 40 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 41 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 42 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 43 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 44 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 45 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 46 | 0.26  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 47 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 48 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col34 | 49 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 50 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col34 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col35 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col35 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col35 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col35 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col35 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col35 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col35 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col35 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col35 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col35 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col35 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col35 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col35 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col35 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col35 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col35 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col35 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col35 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col35 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col35 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col35 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col35 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col35 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col35 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col35 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col35 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col35 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col35 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col35 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col35 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col35 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col35 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col35 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col35 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col36 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col36 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col36 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col36 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col36 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col36 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col36 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col36 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col36 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col36 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col36 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col36 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col36 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col36 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col36 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col36 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col36 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col36 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col36 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col36 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col36 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col36 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col36 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  |      |      |      |      |      |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col136 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col136 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col137 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 23 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 24 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 25 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 26 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 27 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 28 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 29 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 30 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 31 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 32 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 33 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 34 | -0.04 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 35 | 0.02  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col137 | 36 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 37 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 38 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 39 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 40 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 41 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 42 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 43 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 44 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 45 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 46 | 0.26  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 47 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 48 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col137 | 49 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 50 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col137 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col138 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col138 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col138 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col138 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col138 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col138 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col138 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col138 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col138 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col138 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col138 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col138 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col138 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col138 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col138 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col138 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col138 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col138 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col138 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col138 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col138 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col138 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col138 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col138 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col138 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col138 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col138 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col138 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col138 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col138 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col138 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col138 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col138 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col138 | 4  |       |       |       |      |       |      |      |      |      |      |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col139 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col139 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col139 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col139 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col139 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col139 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col139 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col139 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col139 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col139 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col139 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col139 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col139 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col139 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col139 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col139 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col139 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col139 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col139 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col139 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col139 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col139 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col140 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col140 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 23 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 24 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 25 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 26 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 27 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 28 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 29 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 30 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 31 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 32 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 33 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 34 | -0.04 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 35 | 0.02  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col140 | 36 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col140 | 37 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col40 | 38 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 39 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 40 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 41 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 42 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 43 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 44 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col40 | 45 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col40 | 46 | 0.26  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 47 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col40 | 48 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col40 | 49 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col40 | 50 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col40 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col40 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col41 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col41 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col41 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col41 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col41 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col41 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col41 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col41 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col41 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col41 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col41 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col41 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col41 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col41 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col41 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col41 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col41 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col41 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col41 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col41 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col41 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col41 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col41 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col41 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col41 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col41 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col41 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col41 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col141 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col141 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col142 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col142 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col142 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col142 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col142 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col142 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col142 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col142 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col142 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col142 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col142 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col142 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col142 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col142 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col142 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col142 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col142 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col142 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col142 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col142 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col142 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col142 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col142 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col142 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col142 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col142 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col142 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col142 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col142 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col142 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col142 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col142 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col142 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col143 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col143 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 23 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 24 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 25 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 26 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 27 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 28 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 29 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 30 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 31 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 32 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 33 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 34 | -0.04 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 35 | 0.02  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col143 | 36 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 37 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 38 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 39 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 40 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 41 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 42 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 43 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 44 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 45 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 46 | 0.26  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 47 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 48 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col143 | 49 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 50 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col143 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col144 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col144 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col144 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col144 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col144 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col144 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col144 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col144 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col144 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col144 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col144 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col144 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col144 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col144 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col144 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col144 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col144 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col144 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col144 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col144 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col144 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col144 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col144 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col144 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col144 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col144 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col144 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col144 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col145 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col145 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col145 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col145 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col145 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col145 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col145 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col145 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col145 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col145 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col145 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col145 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col145 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col145 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col145 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col145 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col145 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col145 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col145 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col145 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col145 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col145 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col145 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col145 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col145 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col145 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|       |    |       |       |       |      |      |      |      |      |      |      |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|
| Col45 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col45 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col45 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col45 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col45 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col45 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col45 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col45 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col45 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col45 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05 | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col45 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05 | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col45 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col45 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col45 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col45 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col46 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col46 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col46 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00 | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 23 | 0.13  | 10.79 | 0.00  | 3    |      |      |      |      |      |      |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col46 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col46 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col47 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col47 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col47 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col47 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col47 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col47 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col47 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col47 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col47 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col47 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col47 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col47 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col47 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col47 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col47 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col47 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col47 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col47 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col47 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col47 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col47 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col47 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col47 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col47 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col47 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col47 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col47 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col47 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col48 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col48 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col48 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col48 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col48 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col48 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col48 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col48 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col48 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col48 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col48 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col148 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col148 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col148 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col148 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col148 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col148 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col148 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col148 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col148 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col148 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col148 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col148 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col148 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col148 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col148 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col148 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col148 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col148 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col148 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col148 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col148 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col148 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col148 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col148 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col148 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col148 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 1  | 0.30  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col149 | 2  | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 3  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 4  | 0.23  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 5  | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 6  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 7  | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 8  | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 9  | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 10 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 11 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 12 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 13 | -0.02 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 14 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 15 | 0.03  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 16 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 17 | 0.22  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 18 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 19 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 20 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 21 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 22 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 23 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 24 | 0.12  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col149 | 25 | 0.16  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 26 | 0.08  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 27 | 0.13  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 28 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 29 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 30 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 31 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 32 | -0.08 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 33 | -0.03 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 34 | -0.04 | 21.18 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 35 | 0.02  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| Col149 | 36 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 37 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 38 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 39 | 0.25  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 40 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 41 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 42 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 43 | 0.19  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 44 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 45 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 46 | 0.26  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 47 | 0.14  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 48 | 0.18  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col149 | 49 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 50 | 0.07  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 51 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col149 | 52 | 0.06  | 10.79 | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col150 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col150 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col150 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col150 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col150 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col150 | 10 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 11 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 12 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 13 | -0.02 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 14 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 15 | 0.03  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 16 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col150 | 17 | 0.22  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.03 | 0.09 | 0.42 | 0.00 |
| Col150 | 18 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col150 | 19 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col150 | 20 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col150 | 21 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col150 | 22 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col150 | 23 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col150 | 24 | 0.12  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col150 | 25 | 0.16  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col150 | 26 | 0.08  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col150 | 27 | 0.13  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.01 | 0.09 | 0.41 | 0.00 |
| Col150 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col150 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col150 | 30 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 31 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 32 | -0.08 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 33 | -0.03 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 34 | -0.04 | 21.18 | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 35 | 0.02  | 8.41  | -0.38 | 3.32 | 1.40  | 2.65 | 0.00 | 0.11 | 0.53 | 0.00 |
| Col150 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col150 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col150 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col150 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col150 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col150 | 47 | 0.14  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.41 | 0.00 |
| Col150 | 48 | 0.18  | 8.41  | -0.28 | 3.32 | 1.05  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col150 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col150 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 1  | 0.30  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.04 | 0.00 | 0.04 | 0.00 |
| Col151 | 2  | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 3  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col151 | 4  | 0.23  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col151 | 5  | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col151 | 6  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 7  | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 8  | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col151 | 9  | -0.02 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col151 | 10 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 11 | -0.02 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 12 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 13 | -0.02 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 14 | -0.03 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 15 | 0.03  | 8.41  | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.55 | 0.00 |
| Col151 | 16 | 0.18  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col151 | 17 | 0.22  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.03 | 0.09 | 0.43 | 0.00 |
| Col151 | 18 | 0.14  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col151 | 19 | 0.18  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col151 | 20 | 0.12  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col151 | 21 | 0.16  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col151 | 22 | 0.08  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col151 | 23 | 0.13  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col151 | 24 | 0.12  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col151 | 25 | 0.16  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col151 | 26 | 0.08  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col151 | 27 | 0.13  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.01 | 0.09 | 0.42 | 0.00 |
| Col151 | 28 | -0.08 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col151 | 29 | -0.03 | 21.18 | 0.34  | 3.32 | -1.27 | 2.65 | 0.00 | 0.10 | 0.48 | 0.00 |
| Col151 | 30 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 31 | -0.03 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 32 | -0.08 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 33 | -0.03 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 34 | -0.04 | 21.18 | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.54 | 0.00 |
| Col151 | 35 | 0.02  | 8.41  | -0.39 | 3.32 | 1.44  | 2.65 | 0.00 | 0.12 | 0.55 | 0.00 |
| Col151 | 36 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 37 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 38 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col151 | 39 | 0.25  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col151 | 40 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 41 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 42 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 43 | 0.19  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col151 | 44 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 45 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 46 | 0.26  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col151 | 47 | 0.14  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.42 | 0.00 |
| Col151 | 48 | 0.18  | 8.41  | -0.29 | 3.32 | 1.08  | 2.65 | 0.02 | 0.09 | 0.43 | 0.00 |
| Col151 | 49 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 50 | 0.07  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col151 | 51 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col151 | 52 | 0.06  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 1  | 0.17  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 2  | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 3  | 0.13  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 4  | 0.13  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 5  | 0.14  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 6  | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 7  | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 8  | -0.02 | 21.18 | 0.17  | 3.32 | -0.64 | 2.65 | 0.00 | 0.05 | 0.24 | 0.00 |
| Col152 | 9  | 0.01  | 8.41  | 0.17  | 3.32 | -0.64 | 2.65 | 0.00 | 0.05 | 0.24 | 0.00 |
| Col152 | 10 | -0.02 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 11 | 0.01  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 12 | -0.02 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 13 | 0.01  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 14 | 0.00  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 15 | 0.03  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.29 | 0.00 |
| Col152 | 16 | 0.10  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 17 | 0.13  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.23 | 0.00 |
| Col152 | 18 | 0.09  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 19 | 0.11  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.23 | 0.00 |
| Col152 | 20 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 21 | 0.10  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 22 | 0.06  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 23 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 24 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 25 | 0.10  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 26 | 0.06  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 27 | 0.08  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 28 | -0.03 | 21.18 | 0.17  | 3.32 | -0.64 | 2.65 | 0.00 | 0.05 | 0.24 | 0.00 |
| Col152 | 29 | 0.00  | 8.41  | 0.17  | 3.32 | -0.64 | 2.65 | 0.00 | 0.05 | 0.24 | 0.00 |
| Col152 | 30 | -0.03 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 31 | 0.00  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 32 | -0.03 | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 33 | 0.00  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 34 | 0.00  | 21.18 | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.28 | 0.00 |
| Col152 | 35 | 0.03  | 8.41  | -0.20 | 3.32 | 0.75  | 2.65 | 0.00 | 0.06 | 0.29 | 0.00 |
| Col152 | 36 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 37 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 38 | 0.14  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 39 | 0.14  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 40 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 41 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 42 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 43 | 0.11  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 44 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 45 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 46 | 0.15  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col152 | 47 | 0.09  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.22 | 0.00 |
| Col152 | 48 | 0.11  | 8.41  | -0.15 | 3.32 | 0.56  | 2.65 | 0.01 | 0.05 | 0.23 | 0.00 |
| Col152 | 49 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 50 | 0.05  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 51 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col152 | 52 | 0.04  | 8.41  | 0.00  | 3.32 | 0.00  | 2.65 | 0.01 | 0.00 | 0.01 | 0.00 |

[illegible]

[illegible]

[illegible]

|      |    |      |      |      |      |      |      |      |      |      |      |
|------|----|------|------|------|------|------|------|------|------|------|------|
| Raf8 | 50 | 0.00 | 5.99 | 0.00 | 3.77 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf8 | 51 | 0.00 | 5.99 | 0.00 | 3.77 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| Raf8 | 52 | 0.00 | 5.99 | 0.00 | 3.77 | 0.00 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 |

COLUMN REACTIONS:

| Id    | Load |           | In_Plane  |           | Out_Plane |
|-------|------|-----------|-----------|-----------|-----------|
|       | Id   | Vert (k ) | Horz (k ) | Horz (k ) |           |
| Col28 | 1    | 0.17      | 0.00      | 0.00      |           |
| Col28 | 2    | 0.05      | 0.00      | 0.00      |           |
| Col28 | 3    | 0.13      | 0.00      | 0.00      |           |
| Col28 | 4    | 0.13      | 0.00      | 0.00      |           |
| Col28 | 5    | 0.14      | 0.00      | 0.00      |           |
| Col28 | 6    | 0.11      | 0.00      | 0.00      |           |
| Col28 | 7    | 0.11      | 0.00      | 0.00      |           |
| Col28 | 8    | -0.02     | 0.00      | -0.17     |           |
| Col28 | 9    | 0.01      | 0.00      | -0.17     |           |
| Col28 | 10   | -0.02     | 0.00      | 0.20      |           |
| Col28 | 11   | 0.01      | 0.00      | 0.20      |           |
| Col28 | 12   | -0.02     | 0.00      | 0.20      |           |
| Col28 | 13   | 0.01      | 0.00      | 0.20      |           |
| Col28 | 14   | 0.00      | 0.00      | 0.20      |           |
| Col28 | 15   | 0.03      | 0.00      | 0.20      |           |
| Col28 | 16   | 0.10      | 0.00      | 0.15      |           |
| Col28 | 17   | 0.13      | 0.00      | 0.15      |           |
| Col28 | 18   | 0.09      | 0.00      | 0.15      |           |
| Col28 | 19   | 0.11      | 0.00      | 0.15      |           |
| Col28 | 20   | 0.08      | 0.00      | 0.15      |           |
| Col28 | 21   | 0.10      | 0.00      | 0.15      |           |
| Col28 | 22   | 0.06      | 0.00      | 0.15      |           |
| Col28 | 23   | 0.08      | 0.00      | 0.15      |           |
| Col28 | 24   | 0.08      | 0.00      | 0.15      |           |
| Col28 | 25   | 0.10      | 0.00      | 0.15      |           |
| Col28 | 26   | 0.06      | 0.00      | 0.15      |           |
| Col28 | 27   | 0.08      | 0.00      | 0.15      |           |
| Col28 | 28   | -0.03     | 0.00      | -0.17     |           |
| Col28 | 29   | 0.00      | 0.00      | -0.17     |           |
| Col28 | 30   | -0.03     | 0.00      | 0.20      |           |
| Col28 | 31   | 0.00      | 0.00      | 0.20      |           |
| Col28 | 32   | -0.03     | 0.00      | 0.20      |           |
| Col28 | 33   | 0.00      | 0.00      | 0.20      |           |
| Col28 | 34   | 0.00      | 0.00      | 0.20      |           |
| Col28 | 35   | 0.03      | 0.00      | 0.20      |           |
| Col28 | 36   | 0.05      | 0.00      | 0.00      |           |
| Col28 | 37   | 0.05      | 0.00      | 0.00      |           |
| Col28 | 38   | 0.14      | 0.00      | 0.00      |           |
| Col28 | 39   | 0.14      | 0.00      | 0.00      |           |
| Col28 | 40   | 0.11      | 0.00      | 0.00      |           |
| Col28 | 41   | 0.11      | 0.00      | 0.00      |           |
| Col28 | 42   | 0.11      | 0.00      | 0.00      |           |
| Col28 | 43   | 0.11      | 0.00      | 0.00      |           |
| Col28 | 44   | 0.04      | 0.00      | 0.00      |           |
| Col28 | 45   | 0.04      | 0.00      | 0.00      |           |
| Col28 | 46   | 0.15      | 0.00      | 0.00      |           |
| Col28 | 47   | 0.09      | 0.00      | 0.15      |           |
| Col28 | 48   | 0.11      | 0.00      | 0.15      |           |
| Col28 | 49   | 0.05      | 0.00      | 0.00      |           |
| Col28 | 50   | 0.05      | 0.00      | 0.00      |           |
| Col28 | 51   | 0.04      | 0.00      | 0.00      |           |
| Col28 | 52   | 0.04      | 0.00      | 0.00      |           |
| Col29 | 1    | 0.30      | 0.00      | 0.00      |           |
| Col29 | 2    | 0.07      | 0.00      | 0.00      |           |
| Col29 | 3    | 0.23      | 0.00      | 0.00      |           |
| Col29 | 4    | 0.23      | 0.00      | 0.00      |           |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col129 | 5  | 0.25  | 0.00 | 0.00  |
| Col129 | 6  | 0.19  | 0.00 | 0.00  |
| Col129 | 7  | 0.19  | 0.00 | 0.00  |
| Col129 | 8  | -0.08 | 0.00 | -0.34 |
| Col129 | 9  | -0.02 | 0.00 | -0.34 |
| Col129 | 10 | -0.08 | 0.00 | 0.39  |
| Col129 | 11 | -0.02 | 0.00 | 0.39  |
| Col129 | 12 | -0.08 | 0.00 | 0.39  |
| Col129 | 13 | -0.02 | 0.00 | 0.39  |
| Col129 | 14 | -0.03 | 0.00 | 0.39  |
| Col129 | 15 | 0.03  | 0.00 | 0.39  |
| Col129 | 16 | 0.18  | 0.00 | 0.29  |
| Col129 | 17 | 0.22  | 0.00 | 0.29  |
| Col129 | 18 | 0.14  | 0.00 | 0.29  |
| Col129 | 19 | 0.18  | 0.00 | 0.29  |
| Col129 | 20 | 0.12  | 0.00 | 0.29  |
| Col129 | 21 | 0.16  | 0.00 | 0.29  |
| Col129 | 22 | 0.08  | 0.00 | 0.29  |
| Col129 | 23 | 0.13  | 0.00 | 0.29  |
| Col129 | 24 | 0.12  | 0.00 | 0.29  |
| Col129 | 25 | 0.16  | 0.00 | 0.29  |
| Col129 | 26 | 0.08  | 0.00 | 0.29  |
| Col129 | 27 | 0.13  | 0.00 | 0.29  |
| Col129 | 28 | -0.08 | 0.00 | -0.34 |
| Col129 | 29 | -0.03 | 0.00 | -0.34 |
| Col129 | 30 | -0.08 | 0.00 | 0.39  |
| Col129 | 31 | -0.03 | 0.00 | 0.39  |
| Col129 | 32 | -0.08 | 0.00 | 0.39  |
| Col129 | 33 | -0.03 | 0.00 | 0.39  |
| Col129 | 34 | -0.04 | 0.00 | 0.39  |
| Col129 | 35 | 0.02  | 0.00 | 0.39  |
| Col129 | 36 | 0.07  | 0.00 | 0.00  |
| Col129 | 37 | 0.07  | 0.00 | 0.00  |
| Col129 | 38 | 0.25  | 0.00 | 0.00  |
| Col129 | 39 | 0.25  | 0.00 | 0.00  |
| Col129 | 40 | 0.19  | 0.00 | 0.00  |
| Col129 | 41 | 0.19  | 0.00 | 0.00  |
| Col129 | 42 | 0.19  | 0.00 | 0.00  |
| Col129 | 43 | 0.19  | 0.00 | 0.00  |
| Col129 | 44 | 0.06  | 0.00 | 0.00  |
| Col129 | 45 | 0.06  | 0.00 | 0.00  |
| Col129 | 46 | 0.26  | 0.00 | 0.00  |
| Col129 | 47 | 0.14  | 0.00 | 0.29  |
| Col129 | 48 | 0.18  | 0.00 | 0.29  |
| Col129 | 49 | 0.07  | 0.00 | 0.00  |
| Col129 | 50 | 0.07  | 0.00 | 0.00  |
| Col129 | 51 | 0.06  | 0.00 | 0.00  |
| Col129 | 52 | 0.06  | 0.00 | 0.00  |
| Col130 | 1  | 0.30  | 0.00 | 0.00  |
| Col130 | 2  | 0.07  | 0.00 | 0.00  |
| Col130 | 3  | 0.23  | 0.00 | 0.00  |
| Col130 | 4  | 0.23  | 0.00 | 0.00  |
| Col130 | 5  | 0.25  | 0.00 | 0.00  |
| Col130 | 6  | 0.19  | 0.00 | 0.00  |
| Col130 | 7  | 0.19  | 0.00 | 0.00  |
| Col130 | 8  | -0.08 | 0.00 | -0.34 |
| Col130 | 9  | -0.02 | 0.00 | -0.34 |
| Col130 | 10 | -0.08 | 0.00 | 0.38  |
| Col130 | 11 | -0.02 | 0.00 | 0.38  |
| Col130 | 12 | -0.08 | 0.00 | 0.38  |
| Col130 | 13 | -0.02 | 0.00 | 0.38  |
| Col130 | 14 | -0.03 | 0.00 | 0.38  |
| Col130 | 15 | 0.03  | 0.00 | 0.38  |
| Col130 | 16 | 0.18  | 0.00 | 0.28  |
| Col130 | 17 | 0.22  | 0.00 | 0.28  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col130 | 18 | 0.14  | 0.00 | 0.28  |
| Col130 | 19 | 0.18  | 0.00 | 0.28  |
| Col130 | 20 | 0.12  | 0.00 | 0.28  |
| Col130 | 21 | 0.16  | 0.00 | 0.28  |
| Col130 | 22 | 0.08  | 0.00 | 0.28  |
| Col130 | 23 | 0.13  | 0.00 | 0.28  |
| Col130 | 24 | 0.12  | 0.00 | 0.28  |
| Col130 | 25 | 0.16  | 0.00 | 0.28  |
| Col130 | 26 | 0.08  | 0.00 | 0.28  |
| Col130 | 27 | 0.13  | 0.00 | 0.28  |
| Col130 | 28 | -0.08 | 0.00 | -0.34 |
| Col130 | 29 | -0.03 | 0.00 | -0.34 |
| Col130 | 30 | -0.08 | 0.00 | 0.38  |
| Col130 | 31 | -0.03 | 0.00 | 0.38  |
| Col130 | 32 | -0.08 | 0.00 | 0.38  |
| Col130 | 33 | -0.03 | 0.00 | 0.38  |
| Col130 | 34 | -0.04 | 0.00 | 0.38  |
| Col130 | 35 | 0.02  | 0.00 | 0.38  |
| Col130 | 36 | 0.07  | 0.00 | 0.00  |
| Col130 | 37 | 0.07  | 0.00 | 0.00  |
| Col130 | 38 | 0.25  | 0.00 | 0.00  |
| Col130 | 39 | 0.25  | 0.00 | 0.00  |
| Col130 | 40 | 0.19  | 0.00 | 0.00  |
| Col130 | 41 | 0.19  | 0.00 | 0.00  |
| Col130 | 42 | 0.19  | 0.00 | 0.00  |
| Col130 | 43 | 0.19  | 0.00 | 0.00  |
| Col130 | 44 | 0.06  | 0.00 | 0.00  |
| Col130 | 45 | 0.06  | 0.00 | 0.00  |
| Col130 | 46 | 0.26  | 0.00 | 0.00  |
| Col130 | 47 | 0.14  | 0.00 | 0.28  |
| Col130 | 48 | 0.18  | 0.00 | 0.28  |
| Col130 | 49 | 0.07  | 0.00 | 0.00  |
| Col130 | 50 | 0.07  | 0.00 | 0.00  |
| Col130 | 51 | 0.06  | 0.00 | 0.00  |
| Col130 | 52 | 0.06  | 0.00 | 0.00  |
| Col131 | 1  | 0.30  | 0.00 | 0.00  |
| Col131 | 2  | 0.07  | 0.00 | 0.00  |
| Col131 | 3  | 0.23  | 0.00 | 0.00  |
| Col131 | 4  | 0.23  | 0.00 | 0.00  |
| Col131 | 5  | 0.25  | 0.00 | 0.00  |
| Col131 | 6  | 0.19  | 0.00 | 0.00  |
| Col131 | 7  | 0.19  | 0.00 | 0.00  |
| Col131 | 8  | -0.08 | 0.00 | 0.00  |
| Col131 | 9  | -0.02 | 0.00 | 0.00  |
| Col131 | 10 | -0.08 | 0.00 | 0.00  |
| Col131 | 11 | -0.02 | 0.00 | 0.00  |
| Col131 | 12 | -0.08 | 0.00 | 0.00  |
| Col131 | 13 | -0.02 | 0.00 | 0.00  |
| Col131 | 14 | -0.03 | 0.00 | 0.00  |
| Col131 | 15 | 0.03  | 0.00 | 0.00  |
| Col131 | 16 | 0.18  | 0.00 | 0.00  |
| Col131 | 17 | 0.22  | 0.00 | 0.00  |
| Col131 | 18 | 0.14  | 0.00 | 0.00  |
| Col131 | 19 | 0.18  | 0.00 | 0.00  |
| Col131 | 20 | 0.12  | 0.00 | 0.00  |
| Col131 | 21 | 0.16  | 0.00 | 0.00  |
| Col131 | 22 | 0.08  | 0.00 | 0.00  |
| Col131 | 23 | 0.13  | 0.00 | 0.00  |
| Col131 | 24 | 0.12  | 0.00 | 0.00  |
| Col131 | 25 | 0.16  | 0.00 | 0.00  |
| Col131 | 26 | 0.08  | 0.00 | 0.00  |
| Col131 | 27 | 0.13  | 0.00 | 0.00  |
| Col131 | 28 | -0.08 | 0.00 | 0.00  |
| Col131 | 29 | -0.03 | 0.00 | 0.00  |
| Col131 | 30 | -0.08 | 0.00 | 0.00  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col131 | 31 | -0.03 | 0.00 | 0.00  |
| Col131 | 32 | -0.08 | 0.00 | 0.00  |
| Col131 | 33 | -0.03 | 0.00 | 0.00  |
| Col131 | 34 | -0.04 | 0.00 | 0.00  |
| Col131 | 35 | 0.02  | 0.00 | 0.00  |
| Col131 | 36 | 0.07  | 0.00 | 0.00  |
| Col131 | 37 | 0.07  | 0.00 | 0.00  |
| Col131 | 38 | 0.25  | 0.00 | 0.00  |
| Col131 | 39 | 0.25  | 0.00 | 0.00  |
| Col131 | 40 | 0.19  | 0.00 | 0.00  |
| Col131 | 41 | 0.19  | 0.00 | 0.00  |
| Col131 | 42 | 0.19  | 0.00 | 0.00  |
| Col131 | 43 | 0.19  | 0.00 | 0.00  |
| Col131 | 44 | 0.06  | 0.00 | 0.00  |
| Col131 | 45 | 0.06  | 0.00 | 0.00  |
| Col131 | 46 | 0.26  | 0.00 | 0.00  |
| Col131 | 47 | 0.14  | 0.00 | 0.00  |
| Col131 | 48 | 0.18  | 0.00 | 0.00  |
| Col131 | 49 | 0.07  | 0.00 | 0.00  |
| Col131 | 50 | 0.07  | 0.00 | 0.00  |
| Col131 | 51 | 0.06  | 0.00 | 0.00  |
| Col131 | 52 | 0.06  | 0.00 | 0.00  |
| Col132 | 1  | 0.30  | 0.00 | 0.00  |
| Col132 | 2  | 0.07  | 0.00 | 0.00  |
| Col132 | 3  | 0.23  | 0.00 | 0.00  |
| Col132 | 4  | 0.23  | 0.00 | 0.00  |
| Col132 | 5  | 0.25  | 0.00 | 0.00  |
| Col132 | 6  | 0.19  | 0.00 | 0.00  |
| Col132 | 7  | 0.19  | 0.00 | 0.00  |
| Col132 | 8  | -0.08 | 0.00 | -0.34 |
| Col132 | 9  | -0.02 | 0.00 | -0.34 |
| Col132 | 10 | -0.08 | 0.00 | 0.38  |
| Col132 | 11 | -0.02 | 0.00 | 0.38  |
| Col132 | 12 | -0.08 | 0.00 | 0.38  |
| Col132 | 13 | -0.02 | 0.00 | 0.38  |
| Col132 | 14 | -0.03 | 0.00 | 0.38  |
| Col132 | 15 | 0.03  | 0.00 | 0.38  |
| Col132 | 16 | 0.18  | 0.00 | 0.28  |
| Col132 | 17 | 0.22  | 0.00 | 0.28  |
| Col132 | 18 | 0.14  | 0.00 | 0.28  |
| Col132 | 19 | 0.18  | 0.00 | 0.28  |
| Col132 | 20 | 0.12  | 0.00 | 0.28  |
| Col132 | 21 | 0.16  | 0.00 | 0.28  |
| Col132 | 22 | 0.08  | 0.00 | 0.28  |
| Col132 | 23 | 0.13  | 0.00 | 0.28  |
| Col132 | 24 | 0.12  | 0.00 | 0.28  |
| Col132 | 25 | 0.16  | 0.00 | 0.28  |
| Col132 | 26 | 0.08  | 0.00 | 0.28  |
| Col132 | 27 | 0.13  | 0.00 | 0.28  |
| Col132 | 28 | -0.08 | 0.00 | -0.34 |
| Col132 | 29 | -0.03 | 0.00 | -0.34 |
| Col132 | 30 | -0.08 | 0.00 | 0.38  |
| Col132 | 31 | -0.03 | 0.00 | 0.38  |
| Col132 | 32 | -0.08 | 0.00 | 0.38  |
| Col132 | 33 | -0.03 | 0.00 | 0.38  |
| Col132 | 34 | -0.04 | 0.00 | 0.38  |
| Col132 | 35 | 0.02  | 0.00 | 0.38  |
| Col132 | 36 | 0.07  | 0.00 | 0.00  |
| Col132 | 37 | 0.07  | 0.00 | 0.00  |
| Col132 | 38 | 0.25  | 0.00 | 0.00  |
| Col132 | 39 | 0.25  | 0.00 | 0.00  |
| Col132 | 40 | 0.19  | 0.00 | 0.00  |
| Col132 | 41 | 0.19  | 0.00 | 0.00  |
| Col132 | 42 | 0.19  | 0.00 | 0.00  |
| Col132 | 43 | 0.19  | 0.00 | 0.00  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col132 | 44 | 0.06  | 0.00 | 0.00  |
| Col132 | 45 | 0.06  | 0.00 | 0.00  |
| Col132 | 46 | 0.26  | 0.00 | 0.00  |
| Col132 | 47 | 0.14  | 0.00 | 0.28  |
| Col132 | 48 | 0.18  | 0.00 | 0.28  |
| Col132 | 49 | 0.07  | 0.00 | 0.00  |
| Col132 | 50 | 0.07  | 0.00 | 0.00  |
| Col132 | 51 | 0.06  | 0.00 | 0.00  |
| Col132 | 52 | 0.06  | 0.00 | 0.00  |
| Col133 | 1  | 0.30  | 0.00 | 0.00  |
| Col133 | 2  | 0.07  | 0.00 | 0.00  |
| Col133 | 3  | 0.23  | 0.00 | 0.00  |
| Col133 | 4  | 0.23  | 0.00 | 0.00  |
| Col133 | 5  | 0.25  | 0.00 | 0.00  |
| Col133 | 6  | 0.19  | 0.00 | 0.00  |
| Col133 | 7  | 0.19  | 0.00 | 0.00  |
| Col133 | 8  | -0.08 | 0.00 | -0.34 |
| Col133 | 9  | -0.02 | 0.00 | -0.34 |
| Col133 | 10 | -0.08 | 0.00 | 0.38  |
| Col133 | 11 | -0.02 | 0.00 | 0.38  |
| Col133 | 12 | -0.08 | 0.00 | 0.38  |
| Col133 | 13 | -0.02 | 0.00 | 0.38  |
| Col133 | 14 | -0.03 | 0.00 | 0.38  |
| Col133 | 15 | 0.03  | 0.00 | 0.38  |
| Col133 | 16 | 0.18  | 0.00 | 0.28  |
| Col133 | 17 | 0.22  | 0.00 | 0.28  |
| Col133 | 18 | 0.14  | 0.00 | 0.28  |
| Col133 | 19 | 0.18  | 0.00 | 0.28  |
| Col133 | 20 | 0.12  | 0.00 | 0.28  |
| Col133 | 21 | 0.16  | 0.00 | 0.28  |
| Col133 | 22 | 0.08  | 0.00 | 0.28  |
| Col133 | 23 | 0.13  | 0.00 | 0.28  |
| Col133 | 24 | 0.12  | 0.00 | 0.28  |
| Col133 | 25 | 0.16  | 0.00 | 0.28  |
| Col133 | 26 | 0.08  | 0.00 | 0.28  |
| Col133 | 27 | 0.13  | 0.00 | 0.28  |
| Col133 | 28 | -0.08 | 0.00 | -0.34 |
| Col133 | 29 | -0.03 | 0.00 | -0.34 |
| Col133 | 30 | -0.08 | 0.00 | 0.38  |
| Col133 | 31 | -0.03 | 0.00 | 0.38  |
| Col133 | 32 | -0.08 | 0.00 | 0.38  |
| Col133 | 33 | -0.03 | 0.00 | 0.38  |
| Col133 | 34 | -0.04 | 0.00 | 0.38  |
| Col133 | 35 | 0.02  | 0.00 | 0.38  |
| Col133 | 36 | 0.07  | 0.00 | 0.00  |
| Col133 | 37 | 0.07  | 0.00 | 0.00  |
| Col133 | 38 | 0.25  | 0.00 | 0.00  |
| Col133 | 39 | 0.25  | 0.00 | 0.00  |
| Col133 | 40 | 0.19  | 0.00 | 0.00  |
| Col133 | 41 | 0.19  | 0.00 | 0.00  |
| Col133 | 42 | 0.19  | 0.00 | 0.00  |
| Col133 | 43 | 0.19  | 0.00 | 0.00  |
| Col133 | 44 | 0.06  | 0.00 | 0.00  |
| Col133 | 45 | 0.06  | 0.00 | 0.00  |
| Col133 | 46 | 0.26  | 0.00 | 0.00  |
| Col133 | 47 | 0.14  | 0.00 | 0.28  |
| Col133 | 48 | 0.18  | 0.00 | 0.28  |
| Col133 | 49 | 0.07  | 0.00 | 0.00  |
| Col133 | 50 | 0.07  | 0.00 | 0.00  |
| Col133 | 51 | 0.06  | 0.00 | 0.00  |
| Col133 | 52 | 0.06  | 0.00 | 0.00  |
| Col134 | 1  | 0.30  | 0.00 | 0.00  |
| Col134 | 2  | 0.07  | 0.00 | 0.00  |
| Col134 | 3  | 0.23  | 0.00 | 0.00  |
| Col134 | 4  | 0.23  | 0.00 | 0.00  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col134 | 5  | 0.25  | 0.00 | 0.00  |
| Col134 | 6  | 0.19  | 0.00 | 0.00  |
| Col134 | 7  | 0.19  | 0.00 | 0.00  |
| Col134 | 8  | -0.08 | 0.00 | 0.00  |
| Col134 | 9  | -0.02 | 0.00 | 0.00  |
| Col134 | 10 | -0.08 | 0.00 | 0.00  |
| Col134 | 11 | -0.02 | 0.00 | 0.00  |
| Col134 | 12 | -0.08 | 0.00 | 0.00  |
| Col134 | 13 | -0.02 | 0.00 | 0.00  |
| Col134 | 14 | -0.03 | 0.00 | 0.00  |
| Col134 | 15 | 0.03  | 0.00 | 0.00  |
| Col134 | 16 | 0.18  | 0.00 | 0.00  |
| Col134 | 17 | 0.22  | 0.00 | 0.00  |
| Col134 | 18 | 0.14  | 0.00 | 0.00  |
| Col134 | 19 | 0.18  | 0.00 | 0.00  |
| Col134 | 20 | 0.12  | 0.00 | 0.00  |
| Col134 | 21 | 0.16  | 0.00 | 0.00  |
| Col134 | 22 | 0.08  | 0.00 | 0.00  |
| Col134 | 23 | 0.13  | 0.00 | 0.00  |
| Col134 | 24 | 0.12  | 0.00 | 0.00  |
| Col134 | 25 | 0.16  | 0.00 | 0.00  |
| Col134 | 26 | 0.08  | 0.00 | 0.00  |
| Col134 | 27 | 0.13  | 0.00 | 0.00  |
| Col134 | 28 | -0.08 | 0.00 | 0.00  |
| Col134 | 29 | -0.03 | 0.00 | 0.00  |
| Col134 | 30 | -0.08 | 0.00 | 0.00  |
| Col134 | 31 | -0.03 | 0.00 | 0.00  |
| Col134 | 32 | -0.08 | 0.00 | 0.00  |
| Col134 | 33 | -0.03 | 0.00 | 0.00  |
| Col134 | 34 | -0.04 | 0.00 | 0.00  |
| Col134 | 35 | 0.02  | 0.00 | 0.00  |
| Col134 | 36 | 0.07  | 0.00 | 0.00  |
| Col134 | 37 | 0.07  | 0.00 | 0.00  |
| Col134 | 38 | 0.25  | 0.00 | 0.00  |
| Col134 | 39 | 0.25  | 0.00 | 0.00  |
| Col134 | 40 | 0.19  | 0.00 | 0.00  |
| Col134 | 41 | 0.19  | 0.00 | 0.00  |
| Col134 | 42 | 0.19  | 0.00 | 0.00  |
| Col134 | 43 | 0.19  | 0.00 | 0.00  |
| Col134 | 44 | 0.06  | 0.00 | 0.00  |
| Col134 | 45 | 0.06  | 0.00 | 0.00  |
| Col134 | 46 | 0.26  | 0.00 | 0.00  |
| Col134 | 47 | 0.14  | 0.00 | 0.00  |
| Col134 | 48 | 0.18  | 0.00 | 0.00  |
| Col134 | 49 | 0.07  | 0.00 | 0.00  |
| Col134 | 50 | 0.07  | 0.00 | 0.00  |
| Col134 | 51 | 0.06  | 0.00 | 0.00  |
| Col134 | 52 | 0.06  | 0.00 | 0.00  |
| Col135 | 1  | 0.30  | 0.00 | 0.00  |
| Col135 | 2  | 0.07  | 0.00 | 0.00  |
| Col135 | 3  | 0.23  | 0.00 | 0.00  |
| Col135 | 4  | 0.23  | 0.00 | 0.00  |
| Col135 | 5  | 0.25  | 0.00 | 0.00  |
| Col135 | 6  | 0.19  | 0.00 | 0.00  |
| Col135 | 7  | 0.19  | 0.00 | 0.00  |
| Col135 | 8  | -0.08 | 0.00 | -0.34 |
| Col135 | 9  | -0.02 | 0.00 | -0.34 |
| Col135 | 10 | -0.08 | 0.00 | 0.38  |
| Col135 | 11 | -0.02 | 0.00 | 0.38  |
| Col135 | 12 | -0.08 | 0.00 | 0.38  |
| Col135 | 13 | -0.02 | 0.00 | 0.38  |
| Col135 | 14 | -0.03 | 0.00 | 0.38  |
| Col135 | 15 | 0.03  | 0.00 | 0.38  |
| Col135 | 16 | 0.18  | 0.00 | 0.28  |
| Col135 | 17 | 0.22  | 0.00 | 0.28  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col135 | 18 | 0.14  | 0.00 | 0.28  |
| Col135 | 19 | 0.18  | 0.00 | 0.28  |
| Col135 | 20 | 0.12  | 0.00 | 0.28  |
| Col135 | 21 | 0.16  | 0.00 | 0.28  |
| Col135 | 22 | 0.08  | 0.00 | 0.28  |
| Col135 | 23 | 0.13  | 0.00 | 0.28  |
| Col135 | 24 | 0.12  | 0.00 | 0.28  |
| Col135 | 25 | 0.16  | 0.00 | 0.28  |
| Col135 | 26 | 0.08  | 0.00 | 0.28  |
| Col135 | 27 | 0.13  | 0.00 | 0.28  |
| Col135 | 28 | -0.08 | 0.00 | -0.34 |
| Col135 | 29 | -0.03 | 0.00 | -0.34 |
| Col135 | 30 | -0.08 | 0.00 | 0.38  |
| Col135 | 31 | -0.03 | 0.00 | 0.38  |
| Col135 | 32 | -0.08 | 0.00 | 0.38  |
| Col135 | 33 | -0.03 | 0.00 | 0.38  |
| Col135 | 34 | -0.04 | 0.00 | 0.38  |
| Col135 | 35 | 0.02  | 0.00 | 0.38  |
| Col135 | 36 | 0.07  | 0.00 | 0.00  |
| Col135 | 37 | 0.07  | 0.00 | 0.00  |
| Col135 | 38 | 0.25  | 0.00 | 0.00  |
| Col135 | 39 | 0.25  | 0.00 | 0.00  |
| Col135 | 40 | 0.19  | 0.00 | 0.00  |
| Col135 | 41 | 0.19  | 0.00 | 0.00  |
| Col135 | 42 | 0.19  | 0.00 | 0.00  |
| Col135 | 43 | 0.19  | 0.00 | 0.00  |
| Col135 | 44 | 0.06  | 0.00 | 0.00  |
| Col135 | 45 | 0.06  | 0.00 | 0.00  |
| Col135 | 46 | 0.26  | 0.00 | 0.00  |
| Col135 | 47 | 0.14  | 0.00 | 0.28  |
| Col135 | 48 | 0.18  | 0.00 | 0.28  |
| Col135 | 49 | 0.07  | 0.00 | 0.00  |
| Col135 | 50 | 0.07  | 0.00 | 0.00  |
| Col135 | 51 | 0.06  | 0.00 | 0.00  |
| Col135 | 52 | 0.06  | 0.00 | 0.00  |
| Col136 | 1  | 0.30  | 0.00 | 0.00  |
| Col136 | 2  | 0.07  | 0.00 | 0.00  |
| Col136 | 3  | 0.23  | 0.00 | 0.00  |
| Col136 | 4  | 0.23  | 0.00 | 0.00  |
| Col136 | 5  | 0.25  | 0.00 | 0.00  |
| Col136 | 6  | 0.19  | 0.00 | 0.00  |
| Col136 | 7  | 0.19  | 0.00 | 0.00  |
| Col136 | 8  | -0.08 | 0.00 | -0.34 |
| Col136 | 9  | -0.02 | 0.00 | -0.34 |
| Col136 | 10 | -0.08 | 0.00 | 0.38  |
| Col136 | 11 | -0.02 | 0.00 | 0.38  |
| Col136 | 12 | -0.08 | 0.00 | 0.38  |
| Col136 | 13 | -0.02 | 0.00 | 0.38  |
| Col136 | 14 | -0.03 | 0.00 | 0.38  |
| Col136 | 15 | 0.03  | 0.00 | 0.38  |
| Col136 | 16 | 0.18  | 0.00 | 0.28  |
| Col136 | 17 | 0.22  | 0.00 | 0.28  |
| Col136 | 18 | 0.14  | 0.00 | 0.28  |
| Col136 | 19 | 0.18  | 0.00 | 0.28  |
| Col136 | 20 | 0.12  | 0.00 | 0.28  |
| Col136 | 21 | 0.16  | 0.00 | 0.28  |
| Col136 | 22 | 0.08  | 0.00 | 0.28  |
| Col136 | 23 | 0.13  | 0.00 | 0.28  |
| Col136 | 24 | 0.12  | 0.00 | 0.28  |
| Col136 | 25 | 0.16  | 0.00 | 0.28  |
| Col136 | 26 | 0.08  | 0.00 | 0.28  |
| Col136 | 27 | 0.13  | 0.00 | 0.28  |
| Col136 | 28 | -0.08 | 0.00 | -0.34 |
| Col136 | 29 | -0.03 | 0.00 | -0.34 |
| Col136 | 30 | -0.08 | 0.00 | 0.38  |

|        |    |       |      |      |
|--------|----|-------|------|------|
| Col136 | 31 | -0.03 | 0.00 | 0.38 |
| Col136 | 32 | -0.08 | 0.00 | 0.38 |
| Col136 | 33 | -0.03 | 0.00 | 0.38 |
| Col136 | 34 | -0.04 | 0.00 | 0.38 |
| Col136 | 35 | 0.02  | 0.00 | 0.38 |
| Col136 | 36 | 0.07  | 0.00 | 0.00 |
| Col136 | 37 | 0.07  | 0.00 | 0.00 |
| Col136 | 38 | 0.25  | 0.00 | 0.00 |
| Col136 | 39 | 0.25  | 0.00 | 0.00 |
| Col136 | 40 | 0.19  | 0.00 | 0.00 |
| Col136 | 41 | 0.19  | 0.00 | 0.00 |
| Col136 | 42 | 0.19  | 0.00 | 0.00 |
| Col136 | 43 | 0.19  | 0.00 | 0.00 |
| Col136 | 44 | 0.06  | 0.00 | 0.00 |
| Col136 | 45 | 0.06  | 0.00 | 0.00 |
| Col136 | 46 | 0.26  | 0.00 | 0.00 |
| Col136 | 47 | 0.14  | 0.00 | 0.28 |
| Col136 | 48 | 0.18  | 0.00 | 0.28 |
| Col136 | 49 | 0.07  | 0.00 | 0.00 |
| Col136 | 50 | 0.07  | 0.00 | 0.00 |
| Col136 | 51 | 0.06  | 0.00 | 0.00 |
| Col136 | 52 | 0.06  | 0.00 | 0.00 |
| Col137 | 1  | 0.30  | 0.00 | 0.00 |
| Col137 | 2  | 0.07  | 0.00 | 0.00 |
| Col137 | 3  | 0.23  | 0.00 | 0.00 |
| Col137 | 4  | 0.23  | 0.00 | 0.00 |
| Col137 | 5  | 0.25  | 0.00 | 0.00 |
| Col137 | 6  | 0.19  | 0.00 | 0.00 |
| Col137 | 7  | 0.19  | 0.00 | 0.00 |
| Col137 | 8  | -0.08 | 0.00 | 0.00 |
| Col137 | 9  | -0.02 | 0.00 | 0.00 |
| Col137 | 10 | -0.08 | 0.00 | 0.00 |
| Col137 | 11 | -0.02 | 0.00 | 0.00 |
| Col137 | 12 | -0.08 | 0.00 | 0.00 |
| Col137 | 13 | -0.02 | 0.00 | 0.00 |
| Col137 | 14 | -0.03 | 0.00 | 0.00 |
| Col137 | 15 | 0.03  | 0.00 | 0.00 |
| Col137 | 16 | 0.18  | 0.00 | 0.00 |
| Col137 | 17 | 0.22  | 0.00 | 0.00 |
| Col137 | 18 | 0.14  | 0.00 | 0.00 |
| Col137 | 19 | 0.18  | 0.00 | 0.00 |
| Col137 | 20 | 0.12  | 0.00 | 0.00 |
| Col137 | 21 | 0.16  | 0.00 | 0.00 |
| Col137 | 22 | 0.08  | 0.00 | 0.00 |
| Col137 | 23 | 0.13  | 0.00 | 0.00 |
| Col137 | 24 | 0.12  | 0.00 | 0.00 |
| Col137 | 25 | 0.16  | 0.00 | 0.00 |
| Col137 | 26 | 0.08  | 0.00 | 0.00 |
| Col137 | 27 | 0.13  | 0.00 | 0.00 |
| Col137 | 28 | -0.08 | 0.00 | 0.00 |
| Col137 | 29 | -0.03 | 0.00 | 0.00 |
| Col137 | 30 | -0.08 | 0.00 | 0.00 |
| Col137 | 31 | -0.03 | 0.00 | 0.00 |
| Col137 | 32 | -0.08 | 0.00 | 0.00 |
| Col137 | 33 | -0.03 | 0.00 | 0.00 |
| Col137 | 34 | -0.04 | 0.00 | 0.00 |
| Col137 | 35 | 0.02  | 0.00 | 0.00 |
| Col137 | 36 | 0.07  | 0.00 | 0.00 |
| Col137 | 37 | 0.07  | 0.00 | 0.00 |
| Col137 | 38 | 0.25  | 0.00 | 0.00 |
| Col137 | 39 | 0.25  | 0.00 | 0.00 |
| Col137 | 40 | 0.19  | 0.00 | 0.00 |
| Col137 | 41 | 0.19  | 0.00 | 0.00 |
| Col137 | 42 | 0.19  | 0.00 | 0.00 |
| Col137 | 43 | 0.19  | 0.00 | 0.00 |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col137 | 44 | 0.06  | 0.00 | 0.00  |
| Col137 | 45 | 0.06  | 0.00 | 0.00  |
| Col137 | 46 | 0.26  | 0.00 | 0.00  |
| Col137 | 47 | 0.14  | 0.00 | 0.00  |
| Col137 | 48 | 0.18  | 0.00 | 0.00  |
| Col137 | 49 | 0.07  | 0.00 | 0.00  |
| Col137 | 50 | 0.07  | 0.00 | 0.00  |
| Col137 | 51 | 0.06  | 0.00 | 0.00  |
| Col137 | 52 | 0.06  | 0.00 | 0.00  |
| Col138 | 1  | 0.30  | 0.00 | 0.00  |
| Col138 | 2  | 0.07  | 0.00 | 0.00  |
| Col138 | 3  | 0.23  | 0.00 | 0.00  |
| Col138 | 4  | 0.23  | 0.00 | 0.00  |
| Col138 | 5  | 0.25  | 0.00 | 0.00  |
| Col138 | 6  | 0.19  | 0.00 | 0.00  |
| Col138 | 7  | 0.19  | 0.00 | 0.00  |
| Col138 | 8  | -0.08 | 0.00 | -0.34 |
| Col138 | 9  | -0.02 | 0.00 | -0.34 |
| Col138 | 10 | -0.08 | 0.00 | 0.38  |
| Col138 | 11 | -0.02 | 0.00 | 0.38  |
| Col138 | 12 | -0.08 | 0.00 | 0.38  |
| Col138 | 13 | -0.02 | 0.00 | 0.38  |
| Col138 | 14 | -0.03 | 0.00 | 0.38  |
| Col138 | 15 | 0.03  | 0.00 | 0.38  |
| Col138 | 16 | 0.18  | 0.00 | 0.28  |
| Col138 | 17 | 0.22  | 0.00 | 0.28  |
| Col138 | 18 | 0.14  | 0.00 | 0.28  |
| Col138 | 19 | 0.18  | 0.00 | 0.28  |
| Col138 | 20 | 0.12  | 0.00 | 0.28  |
| Col138 | 21 | 0.16  | 0.00 | 0.28  |
| Col138 | 22 | 0.08  | 0.00 | 0.28  |
| Col138 | 23 | 0.13  | 0.00 | 0.28  |
| Col138 | 24 | 0.12  | 0.00 | 0.28  |
| Col138 | 25 | 0.16  | 0.00 | 0.28  |
| Col138 | 26 | 0.08  | 0.00 | 0.28  |
| Col138 | 27 | 0.13  | 0.00 | 0.28  |
| Col138 | 28 | -0.08 | 0.00 | -0.34 |
| Col138 | 29 | -0.03 | 0.00 | -0.34 |
| Col138 | 30 | -0.08 | 0.00 | 0.38  |
| Col138 | 31 | -0.03 | 0.00 | 0.38  |
| Col138 | 32 | -0.08 | 0.00 | 0.38  |
| Col138 | 33 | -0.03 | 0.00 | 0.38  |
| Col138 | 34 | -0.04 | 0.00 | 0.38  |
| Col138 | 35 | 0.02  | 0.00 | 0.38  |
| Col138 | 36 | 0.07  | 0.00 | 0.00  |
| Col138 | 37 | 0.07  | 0.00 | 0.00  |
| Col138 | 38 | 0.25  | 0.00 | 0.00  |
| Col138 | 39 | 0.25  | 0.00 | 0.00  |
| Col138 | 40 | 0.19  | 0.00 | 0.00  |
| Col138 | 41 | 0.19  | 0.00 | 0.00  |
| Col138 | 42 | 0.19  | 0.00 | 0.00  |
| Col138 | 43 | 0.19  | 0.00 | 0.00  |
| Col138 | 44 | 0.06  | 0.00 | 0.00  |
| Col138 | 45 | 0.06  | 0.00 | 0.00  |
| Col138 | 46 | 0.26  | 0.00 | 0.00  |
| Col138 | 47 | 0.14  | 0.00 | 0.28  |
| Col138 | 48 | 0.18  | 0.00 | 0.28  |
| Col138 | 49 | 0.07  | 0.00 | 0.00  |
| Col138 | 50 | 0.07  | 0.00 | 0.00  |
| Col138 | 51 | 0.06  | 0.00 | 0.00  |
| Col138 | 52 | 0.06  | 0.00 | 0.00  |
| Col139 | 1  | 0.30  | 0.00 | 0.00  |
| Col139 | 2  | 0.07  | 0.00 | 0.00  |
| Col139 | 3  | 0.23  | 0.00 | 0.00  |
| Col139 | 4  | 0.23  | 0.00 | 0.00  |

|        |    |       |      |       |
|--------|----|-------|------|-------|
| Col139 | 5  | 0.25  | 0.00 | 0.00  |
| Col139 | 6  | 0.19  | 0.00 | 0.00  |
| Col139 | 7  | 0.19  | 0.00 | 0.00  |
| Col139 | 8  | -0.08 | 0.00 | -0.34 |
| Col139 | 9  | -0.02 | 0.00 | -0.34 |
| Col139 | 10 | -0.08 | 0.00 | 0.38  |
| Col139 | 11 | -0.02 | 0.00 | 0.38  |
| Col139 | 12 | -0.08 | 0.00 | 0.38  |
| Col139 | 13 | -0.02 | 0.00 | 0.38  |
| Col139 | 14 | -0.03 | 0.00 | 0.38  |
| Col139 | 15 | 0.03  | 0.00 | 0.38  |
| Col139 | 16 | 0.18  | 0.00 | 0.28  |
| Col139 | 17 | 0.22  | 0.00 | 0.28  |
| Col139 | 18 | 0.14  | 0.00 | 0.28  |
| Col139 | 19 | 0.18  | 0.00 | 0.28  |
| Col139 | 20 | 0.12  | 0.00 | 0.28  |
| Col139 | 21 | 0.16  | 0.00 | 0.28  |
| Col139 | 22 | 0.08  | 0.00 | 0.28  |
| Col139 | 23 | 0.13  | 0.00 | 0.28  |
| Col139 | 24 | 0.12  | 0.00 | 0.28  |
| Col139 | 25 | 0.16  | 0.00 | 0.28  |
| Col139 | 26 | 0.08  | 0.00 | 0.28  |
| Col139 | 27 | 0.13  | 0.00 | 0.28  |
| Col139 | 28 | -0.08 | 0.00 | -0.34 |
| Col139 | 29 | -0.03 | 0.00 | -0.34 |
| Col139 | 30 | -0.08 | 0.00 | 0.38  |
| Col139 | 31 | -0.03 | 0.00 | 0.38  |
| Col139 | 32 | -0.08 | 0.00 | 0.38  |
| Col139 | 33 | -0.03 | 0.00 | 0.38  |
| Col139 | 34 | -0.04 | 0.00 | 0.38  |
| Col139 | 35 | 0.02  | 0.00 | 0.38  |
| Col139 | 36 | 0.07  | 0.00 | 0.00  |
| Col139 | 37 | 0.07  | 0.00 | 0.00  |
| Col139 | 38 | 0.25  | 0.00 | 0.00  |
| Col139 | 39 | 0.25  | 0.00 | 0.00  |
| Col139 | 40 | 0.19  | 0.00 | 0.00  |
| Col139 | 41 | 0.19  | 0.00 | 0.00  |
| Col139 | 42 | 0.19  | 0.00 | 0.00  |
| Col139 | 43 | 0.19  | 0.00 | 0.00  |
| Col139 | 44 | 0.06  | 0.00 | 0.00  |
| Col139 | 45 | 0.06  | 0.00 | 0.00  |
| Col139 | 46 | 0.26  | 0.00 | 0.00  |
| Col139 | 47 | 0.14  | 0.00 | 0.28  |
| Col139 | 48 | 0.18  | 0.00 | 0.28  |
| Col139 | 49 | 0.07  | 0.00 | 0.00  |
| Col139 | 50 | 0.07  | 0.00 | 0.00  |
| Col139 | 51 | 0.06  | 0.00 | 0.00  |
| Col139 | 52 | 0.06  | 0.00 | 0.00  |
| Col140 | 1  | 0.30  | 0.00 | 0.00  |
| Col140 | 2  | 0.07  | 0.00 | 0.00  |
| Col140 | 3  | 0.23  | 0.00 | 0.00  |
| Col140 | 4  | 0.23  | 0.00 | 0.00  |
| Col140 | 5  | 0.25  | 0.00 | 0.00  |
| Col140 | 6  | 0.19  | 0.00 | 0.00  |
| Col140 | 7  | 0.19  | 0.00 | 0.00  |
| Col140 | 8  | -0.08 | 0.00 | 0.00  |
| Col140 | 9  | -0.02 | 0.00 | 0.00  |
| Col140 | 10 | -0.08 | 0.00 | 0.00  |
| Col140 | 11 | -0.02 | 0.00 | 0.00  |
| Col140 | 12 | -0.08 | 0.00 | 0.00  |
| Col140 | 13 | -0.02 | 0.00 | 0.00  |
| Col140 | 14 | -0.03 | 0.00 | 0.00  |
| Col140 | 15 | 0.03  | 0.00 | 0.00  |
| Col140 | 16 | 0.18  | 0.00 | 0.00  |
| Col140 | 17 | 0.22  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col40 | 18 | 0.14  | 0.00 | 0.00  |
| Col40 | 19 | 0.18  | 0.00 | 0.00  |
| Col40 | 20 | 0.12  | 0.00 | 0.00  |
| Col40 | 21 | 0.16  | 0.00 | 0.00  |
| Col40 | 22 | 0.08  | 0.00 | 0.00  |
| Col40 | 23 | 0.13  | 0.00 | 0.00  |
| Col40 | 24 | 0.12  | 0.00 | 0.00  |
| Col40 | 25 | 0.16  | 0.00 | 0.00  |
| Col40 | 26 | 0.08  | 0.00 | 0.00  |
| Col40 | 27 | 0.13  | 0.00 | 0.00  |
| Col40 | 28 | -0.08 | 0.00 | 0.00  |
| Col40 | 29 | -0.03 | 0.00 | 0.00  |
| Col40 | 30 | -0.08 | 0.00 | 0.00  |
| Col40 | 31 | -0.03 | 0.00 | 0.00  |
| Col40 | 32 | -0.08 | 0.00 | 0.00  |
| Col40 | 33 | -0.03 | 0.00 | 0.00  |
| Col40 | 34 | -0.04 | 0.00 | 0.00  |
| Col40 | 35 | 0.02  | 0.00 | 0.00  |
| Col40 | 36 | 0.07  | 0.00 | 0.00  |
| Col40 | 37 | 0.07  | 0.00 | 0.00  |
| Col40 | 38 | 0.25  | 0.00 | 0.00  |
| Col40 | 39 | 0.25  | 0.00 | 0.00  |
| Col40 | 40 | 0.19  | 0.00 | 0.00  |
| Col40 | 41 | 0.19  | 0.00 | 0.00  |
| Col40 | 42 | 0.19  | 0.00 | 0.00  |
| Col40 | 43 | 0.19  | 0.00 | 0.00  |
| Col40 | 44 | 0.06  | 0.00 | 0.00  |
| Col40 | 45 | 0.06  | 0.00 | 0.00  |
| Col40 | 46 | 0.26  | 0.00 | 0.00  |
| Col40 | 47 | 0.14  | 0.00 | 0.00  |
| Col40 | 48 | 0.18  | 0.00 | 0.00  |
| Col40 | 49 | 0.07  | 0.00 | 0.00  |
| Col40 | 50 | 0.07  | 0.00 | 0.00  |
| Col40 | 51 | 0.06  | 0.00 | 0.00  |
| Col40 | 52 | 0.06  | 0.00 | 0.00  |
| Col41 | 1  | 0.30  | 0.00 | 0.00  |
| Col41 | 2  | 0.07  | 0.00 | 0.00  |
| Col41 | 3  | 0.23  | 0.00 | 0.00  |
| Col41 | 4  | 0.23  | 0.00 | 0.00  |
| Col41 | 5  | 0.25  | 0.00 | 0.00  |
| Col41 | 6  | 0.19  | 0.00 | 0.00  |
| Col41 | 7  | 0.19  | 0.00 | 0.00  |
| Col41 | 8  | -0.08 | 0.00 | -0.34 |
| Col41 | 9  | -0.02 | 0.00 | -0.34 |
| Col41 | 10 | -0.08 | 0.00 | 0.38  |
| Col41 | 11 | -0.02 | 0.00 | 0.38  |
| Col41 | 12 | -0.08 | 0.00 | 0.38  |
| Col41 | 13 | -0.02 | 0.00 | 0.38  |
| Col41 | 14 | -0.03 | 0.00 | 0.38  |
| Col41 | 15 | 0.03  | 0.00 | 0.38  |
| Col41 | 16 | 0.18  | 0.00 | 0.28  |
| Col41 | 17 | 0.22  | 0.00 | 0.28  |
| Col41 | 18 | 0.14  | 0.00 | 0.28  |
| Col41 | 19 | 0.18  | 0.00 | 0.28  |
| Col41 | 20 | 0.12  | 0.00 | 0.28  |
| Col41 | 21 | 0.16  | 0.00 | 0.28  |
| Col41 | 22 | 0.08  | 0.00 | 0.28  |
| Col41 | 23 | 0.13  | 0.00 | 0.28  |
| Col41 | 24 | 0.12  | 0.00 | 0.28  |
| Col41 | 25 | 0.16  | 0.00 | 0.28  |
| Col41 | 26 | 0.08  | 0.00 | 0.28  |
| Col41 | 27 | 0.13  | 0.00 | 0.28  |
| Col41 | 28 | -0.08 | 0.00 | -0.34 |
| Col41 | 29 | -0.03 | 0.00 | -0.34 |
| Col41 | 30 | -0.08 | 0.00 | 0.38  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col41 | 31 | -0.03 | 0.00 | 0.38  |
| Col41 | 32 | -0.08 | 0.00 | 0.38  |
| Col41 | 33 | -0.03 | 0.00 | 0.38  |
| Col41 | 34 | -0.04 | 0.00 | 0.38  |
| Col41 | 35 | 0.02  | 0.00 | 0.38  |
| Col41 | 36 | 0.07  | 0.00 | 0.00  |
| Col41 | 37 | 0.07  | 0.00 | 0.00  |
| Col41 | 38 | 0.25  | 0.00 | 0.00  |
| Col41 | 39 | 0.25  | 0.00 | 0.00  |
| Col41 | 40 | 0.19  | 0.00 | 0.00  |
| Col41 | 41 | 0.19  | 0.00 | 0.00  |
| Col41 | 42 | 0.19  | 0.00 | 0.00  |
| Col41 | 43 | 0.19  | 0.00 | 0.00  |
| Col41 | 44 | 0.06  | 0.00 | 0.00  |
| Col41 | 45 | 0.06  | 0.00 | 0.00  |
| Col41 | 46 | 0.26  | 0.00 | 0.00  |
| Col41 | 47 | 0.14  | 0.00 | 0.28  |
| Col41 | 48 | 0.18  | 0.00 | 0.28  |
| Col41 | 49 | 0.07  | 0.00 | 0.00  |
| Col41 | 50 | 0.07  | 0.00 | 0.00  |
| Col41 | 51 | 0.06  | 0.00 | 0.00  |
| Col41 | 52 | 0.06  | 0.00 | 0.00  |
| Col42 | 1  | 0.30  | 0.00 | 0.00  |
| Col42 | 2  | 0.07  | 0.00 | 0.00  |
| Col42 | 3  | 0.23  | 0.00 | 0.00  |
| Col42 | 4  | 0.23  | 0.00 | 0.00  |
| Col42 | 5  | 0.25  | 0.00 | 0.00  |
| Col42 | 6  | 0.19  | 0.00 | 0.00  |
| Col42 | 7  | 0.19  | 0.00 | 0.00  |
| Col42 | 8  | -0.08 | 0.00 | -0.34 |
| Col42 | 9  | -0.02 | 0.00 | -0.34 |
| Col42 | 10 | -0.08 | 0.00 | 0.38  |
| Col42 | 11 | -0.02 | 0.00 | 0.38  |
| Col42 | 12 | -0.08 | 0.00 | 0.38  |
| Col42 | 13 | -0.02 | 0.00 | 0.38  |
| Col42 | 14 | -0.03 | 0.00 | 0.38  |
| Col42 | 15 | 0.03  | 0.00 | 0.38  |
| Col42 | 16 | 0.18  | 0.00 | 0.28  |
| Col42 | 17 | 0.22  | 0.00 | 0.28  |
| Col42 | 18 | 0.14  | 0.00 | 0.28  |
| Col42 | 19 | 0.18  | 0.00 | 0.28  |
| Col42 | 20 | 0.12  | 0.00 | 0.28  |
| Col42 | 21 | 0.16  | 0.00 | 0.28  |
| Col42 | 22 | 0.08  | 0.00 | 0.28  |
| Col42 | 23 | 0.13  | 0.00 | 0.28  |
| Col42 | 24 | 0.12  | 0.00 | 0.28  |
| Col42 | 25 | 0.16  | 0.00 | 0.28  |
| Col42 | 26 | 0.08  | 0.00 | 0.28  |
| Col42 | 27 | 0.13  | 0.00 | 0.28  |
| Col42 | 28 | -0.08 | 0.00 | -0.34 |
| Col42 | 29 | -0.03 | 0.00 | -0.34 |
| Col42 | 30 | -0.08 | 0.00 | 0.38  |
| Col42 | 31 | -0.03 | 0.00 | 0.38  |
| Col42 | 32 | -0.08 | 0.00 | 0.38  |
| Col42 | 33 | -0.03 | 0.00 | 0.38  |
| Col42 | 34 | -0.04 | 0.00 | 0.38  |
| Col42 | 35 | 0.02  | 0.00 | 0.38  |
| Col42 | 36 | 0.07  | 0.00 | 0.00  |
| Col42 | 37 | 0.07  | 0.00 | 0.00  |
| Col42 | 38 | 0.25  | 0.00 | 0.00  |
| Col42 | 39 | 0.25  | 0.00 | 0.00  |
| Col42 | 40 | 0.19  | 0.00 | 0.00  |
| Col42 | 41 | 0.19  | 0.00 | 0.00  |
| Col42 | 42 | 0.19  | 0.00 | 0.00  |
| Col42 | 43 | 0.19  | 0.00 | 0.00  |

|       |    |       |      |      |
|-------|----|-------|------|------|
| Col42 | 44 | 0.06  | 0.00 | 0.00 |
| Col42 | 45 | 0.06  | 0.00 | 0.00 |
| Col42 | 46 | 0.26  | 0.00 | 0.00 |
| Col42 | 47 | 0.14  | 0.00 | 0.28 |
| Col42 | 48 | 0.18  | 0.00 | 0.28 |
| Col42 | 49 | 0.07  | 0.00 | 0.00 |
| Col42 | 50 | 0.07  | 0.00 | 0.00 |
| Col42 | 51 | 0.06  | 0.00 | 0.00 |
| Col42 | 52 | 0.06  | 0.00 | 0.00 |
| Col43 | 1  | 0.30  | 0.00 | 0.00 |
| Col43 | 2  | 0.07  | 0.00 | 0.00 |
| Col43 | 3  | 0.23  | 0.00 | 0.00 |
| Col43 | 4  | 0.23  | 0.00 | 0.00 |
| Col43 | 5  | 0.25  | 0.00 | 0.00 |
| Col43 | 6  | 0.19  | 0.00 | 0.00 |
| Col43 | 7  | 0.19  | 0.00 | 0.00 |
| Col43 | 8  | -0.08 | 0.00 | 0.00 |
| Col43 | 9  | -0.02 | 0.00 | 0.00 |
| Col43 | 10 | -0.08 | 0.00 | 0.00 |
| Col43 | 11 | -0.02 | 0.00 | 0.00 |
| Col43 | 12 | -0.08 | 0.00 | 0.00 |
| Col43 | 13 | -0.02 | 0.00 | 0.00 |
| Col43 | 14 | -0.03 | 0.00 | 0.00 |
| Col43 | 15 | 0.03  | 0.00 | 0.00 |
| Col43 | 16 | 0.18  | 0.00 | 0.00 |
| Col43 | 17 | 0.22  | 0.00 | 0.00 |
| Col43 | 18 | 0.14  | 0.00 | 0.00 |
| Col43 | 19 | 0.18  | 0.00 | 0.00 |
| Col43 | 20 | 0.12  | 0.00 | 0.00 |
| Col43 | 21 | 0.16  | 0.00 | 0.00 |
| Col43 | 22 | 0.08  | 0.00 | 0.00 |
| Col43 | 23 | 0.13  | 0.00 | 0.00 |
| Col43 | 24 | 0.12  | 0.00 | 0.00 |
| Col43 | 25 | 0.16  | 0.00 | 0.00 |
| Col43 | 26 | 0.08  | 0.00 | 0.00 |
| Col43 | 27 | 0.13  | 0.00 | 0.00 |
| Col43 | 28 | -0.08 | 0.00 | 0.00 |
| Col43 | 29 | -0.03 | 0.00 | 0.00 |
| Col43 | 30 | -0.08 | 0.00 | 0.00 |
| Col43 | 31 | -0.03 | 0.00 | 0.00 |
| Col43 | 32 | -0.08 | 0.00 | 0.00 |
| Col43 | 33 | -0.03 | 0.00 | 0.00 |
| Col43 | 34 | -0.04 | 0.00 | 0.00 |
| Col43 | 35 | 0.02  | 0.00 | 0.00 |
| Col43 | 36 | 0.07  | 0.00 | 0.00 |
| Col43 | 37 | 0.07  | 0.00 | 0.00 |
| Col43 | 38 | 0.25  | 0.00 | 0.00 |
| Col43 | 39 | 0.25  | 0.00 | 0.00 |
| Col43 | 40 | 0.19  | 0.00 | 0.00 |
| Col43 | 41 | 0.19  | 0.00 | 0.00 |
| Col43 | 42 | 0.19  | 0.00 | 0.00 |
| Col43 | 43 | 0.19  | 0.00 | 0.00 |
| Col43 | 44 | 0.06  | 0.00 | 0.00 |
| Col43 | 45 | 0.06  | 0.00 | 0.00 |
| Col43 | 46 | 0.26  | 0.00 | 0.00 |
| Col43 | 47 | 0.14  | 0.00 | 0.00 |
| Col43 | 48 | 0.18  | 0.00 | 0.00 |
| Col43 | 49 | 0.07  | 0.00 | 0.00 |
| Col43 | 50 | 0.07  | 0.00 | 0.00 |
| Col43 | 51 | 0.06  | 0.00 | 0.00 |
| Col43 | 52 | 0.06  | 0.00 | 0.00 |
| Col44 | 1  | 0.30  | 0.00 | 0.00 |
| Col44 | 2  | 0.07  | 0.00 | 0.00 |
| Col44 | 3  | 0.23  | 0.00 | 0.00 |
| Col44 | 4  | 0.23  | 0.00 | 0.00 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col44 | 5  | 0.25  | 0.00 | 0.00  |
| Col44 | 6  | 0.19  | 0.00 | 0.00  |
| Col44 | 7  | 0.19  | 0.00 | 0.00  |
| Col44 | 8  | -0.08 | 0.00 | -0.34 |
| Col44 | 9  | -0.02 | 0.00 | -0.34 |
| Col44 | 10 | -0.08 | 0.00 | 0.38  |
| Col44 | 11 | -0.02 | 0.00 | 0.38  |
| Col44 | 12 | -0.08 | 0.00 | 0.38  |
| Col44 | 13 | -0.02 | 0.00 | 0.38  |
| Col44 | 14 | -0.03 | 0.00 | 0.38  |
| Col44 | 15 | 0.03  | 0.00 | 0.38  |
| Col44 | 16 | 0.18  | 0.00 | 0.28  |
| Col44 | 17 | 0.22  | 0.00 | 0.28  |
| Col44 | 18 | 0.14  | 0.00 | 0.28  |
| Col44 | 19 | 0.18  | 0.00 | 0.28  |
| Col44 | 20 | 0.12  | 0.00 | 0.28  |
| Col44 | 21 | 0.16  | 0.00 | 0.28  |
| Col44 | 22 | 0.08  | 0.00 | 0.28  |
| Col44 | 23 | 0.13  | 0.00 | 0.28  |
| Col44 | 24 | 0.12  | 0.00 | 0.28  |
| Col44 | 25 | 0.16  | 0.00 | 0.28  |
| Col44 | 26 | 0.08  | 0.00 | 0.28  |
| Col44 | 27 | 0.13  | 0.00 | 0.28  |
| Col44 | 28 | -0.08 | 0.00 | -0.34 |
| Col44 | 29 | -0.03 | 0.00 | -0.34 |
| Col44 | 30 | -0.08 | 0.00 | 0.38  |
| Col44 | 31 | -0.03 | 0.00 | 0.38  |
| Col44 | 32 | -0.08 | 0.00 | 0.38  |
| Col44 | 33 | -0.03 | 0.00 | 0.38  |
| Col44 | 34 | -0.04 | 0.00 | 0.38  |
| Col44 | 35 | 0.02  | 0.00 | 0.38  |
| Col44 | 36 | 0.07  | 0.00 | 0.00  |
| Col44 | 37 | 0.07  | 0.00 | 0.00  |
| Col44 | 38 | 0.25  | 0.00 | 0.00  |
| Col44 | 39 | 0.25  | 0.00 | 0.00  |
| Col44 | 40 | 0.19  | 0.00 | 0.00  |
| Col44 | 41 | 0.19  | 0.00 | 0.00  |
| Col44 | 42 | 0.19  | 0.00 | 0.00  |
| Col44 | 43 | 0.19  | 0.00 | 0.00  |
| Col44 | 44 | 0.06  | 0.00 | 0.00  |
| Col44 | 45 | 0.06  | 0.00 | 0.00  |
| Col44 | 46 | 0.26  | 0.00 | 0.00  |
| Col44 | 47 | 0.14  | 0.00 | 0.28  |
| Col44 | 48 | 0.18  | 0.00 | 0.28  |
| Col44 | 49 | 0.07  | 0.00 | 0.00  |
| Col44 | 50 | 0.07  | 0.00 | 0.00  |
| Col44 | 51 | 0.06  | 0.00 | 0.00  |
| Col44 | 52 | 0.06  | 0.00 | 0.00  |
| Col45 | 1  | 0.30  | 0.00 | 0.00  |
| Col45 | 2  | 0.07  | 0.00 | 0.00  |
| Col45 | 3  | 0.23  | 0.00 | 0.00  |
| Col45 | 4  | 0.23  | 0.00 | 0.00  |
| Col45 | 5  | 0.25  | 0.00 | 0.00  |
| Col45 | 6  | 0.19  | 0.00 | 0.00  |
| Col45 | 7  | 0.19  | 0.00 | 0.00  |
| Col45 | 8  | -0.08 | 0.00 | -0.34 |
| Col45 | 9  | -0.02 | 0.00 | -0.34 |
| Col45 | 10 | -0.08 | 0.00 | 0.38  |
| Col45 | 11 | -0.02 | 0.00 | 0.38  |
| Col45 | 12 | -0.08 | 0.00 | 0.38  |
| Col45 | 13 | -0.02 | 0.00 | 0.38  |
| Col45 | 14 | -0.03 | 0.00 | 0.38  |
| Col45 | 15 | 0.03  | 0.00 | 0.38  |
| Col45 | 16 | 0.18  | 0.00 | 0.28  |
| Col45 | 17 | 0.22  | 0.00 | 0.28  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col45 | 18 | 0.14  | 0.00 | 0.28  |
| Col45 | 19 | 0.18  | 0.00 | 0.28  |
| Col45 | 20 | 0.12  | 0.00 | 0.28  |
| Col45 | 21 | 0.16  | 0.00 | 0.28  |
| Col45 | 22 | 0.08  | 0.00 | 0.28  |
| Col45 | 23 | 0.13  | 0.00 | 0.28  |
| Col45 | 24 | 0.12  | 0.00 | 0.28  |
| Col45 | 25 | 0.16  | 0.00 | 0.28  |
| Col45 | 26 | 0.08  | 0.00 | 0.28  |
| Col45 | 27 | 0.13  | 0.00 | 0.28  |
| Col45 | 28 | -0.08 | 0.00 | -0.34 |
| Col45 | 29 | -0.03 | 0.00 | -0.34 |
| Col45 | 30 | -0.08 | 0.00 | 0.38  |
| Col45 | 31 | -0.03 | 0.00 | 0.38  |
| Col45 | 32 | -0.08 | 0.00 | 0.38  |
| Col45 | 33 | -0.03 | 0.00 | 0.38  |
| Col45 | 34 | -0.04 | 0.00 | 0.38  |
| Col45 | 35 | 0.02  | 0.00 | 0.38  |
| Col45 | 36 | 0.07  | 0.00 | 0.00  |
| Col45 | 37 | 0.07  | 0.00 | 0.00  |
| Col45 | 38 | 0.25  | 0.00 | 0.00  |
| Col45 | 39 | 0.25  | 0.00 | 0.00  |
| Col45 | 40 | 0.19  | 0.00 | 0.00  |
| Col45 | 41 | 0.19  | 0.00 | 0.00  |
| Col45 | 42 | 0.19  | 0.00 | 0.00  |
| Col45 | 43 | 0.19  | 0.00 | 0.00  |
| Col45 | 44 | 0.06  | 0.00 | 0.00  |
| Col45 | 45 | 0.06  | 0.00 | 0.00  |
| Col45 | 46 | 0.26  | 0.00 | 0.00  |
| Col45 | 47 | 0.14  | 0.00 | 0.28  |
| Col45 | 48 | 0.18  | 0.00 | 0.28  |
| Col45 | 49 | 0.07  | 0.00 | 0.00  |
| Col45 | 50 | 0.07  | 0.00 | 0.00  |
| Col45 | 51 | 0.06  | 0.00 | 0.00  |
| Col45 | 52 | 0.06  | 0.00 | 0.00  |
| Col46 | 1  | 0.30  | 0.00 | 0.00  |
| Col46 | 2  | 0.07  | 0.00 | 0.00  |
| Col46 | 3  | 0.23  | 0.00 | 0.00  |
| Col46 | 4  | 0.23  | 0.00 | 0.00  |
| Col46 | 5  | 0.25  | 0.00 | 0.00  |
| Col46 | 6  | 0.19  | 0.00 | 0.00  |
| Col46 | 7  | 0.19  | 0.00 | 0.00  |
| Col46 | 8  | -0.08 | 0.00 | 0.00  |
| Col46 | 9  | -0.02 | 0.00 | 0.00  |
| Col46 | 10 | -0.08 | 0.00 | 0.00  |
| Col46 | 11 | -0.02 | 0.00 | 0.00  |
| Col46 | 12 | -0.08 | 0.00 | 0.00  |
| Col46 | 13 | -0.02 | 0.00 | 0.00  |
| Col46 | 14 | -0.03 | 0.00 | 0.00  |
| Col46 | 15 | 0.03  | 0.00 | 0.00  |
| Col46 | 16 | 0.18  | 0.00 | 0.00  |
| Col46 | 17 | 0.22  | 0.00 | 0.00  |
| Col46 | 18 | 0.14  | 0.00 | 0.00  |
| Col46 | 19 | 0.18  | 0.00 | 0.00  |
| Col46 | 20 | 0.12  | 0.00 | 0.00  |
| Col46 | 21 | 0.16  | 0.00 | 0.00  |
| Col46 | 22 | 0.08  | 0.00 | 0.00  |
| Col46 | 23 | 0.13  | 0.00 | 0.00  |
| Col46 | 24 | 0.12  | 0.00 | 0.00  |
| Col46 | 25 | 0.16  | 0.00 | 0.00  |
| Col46 | 26 | 0.08  | 0.00 | 0.00  |
| Col46 | 27 | 0.13  | 0.00 | 0.00  |
| Col46 | 28 | -0.08 | 0.00 | 0.00  |
| Col46 | 29 | -0.03 | 0.00 | 0.00  |
| Col46 | 30 | -0.08 | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col46 | 31 | -0.03 | 0.00 | 0.00  |
| Col46 | 32 | -0.08 | 0.00 | 0.00  |
| Col46 | 33 | -0.03 | 0.00 | 0.00  |
| Col46 | 34 | -0.04 | 0.00 | 0.00  |
| Col46 | 35 | 0.02  | 0.00 | 0.00  |
| Col46 | 36 | 0.07  | 0.00 | 0.00  |
| Col46 | 37 | 0.07  | 0.00 | 0.00  |
| Col46 | 38 | 0.25  | 0.00 | 0.00  |
| Col46 | 39 | 0.25  | 0.00 | 0.00  |
| Col46 | 40 | 0.19  | 0.00 | 0.00  |
| Col46 | 41 | 0.19  | 0.00 | 0.00  |
| Col46 | 42 | 0.19  | 0.00 | 0.00  |
| Col46 | 43 | 0.19  | 0.00 | 0.00  |
| Col46 | 44 | 0.06  | 0.00 | 0.00  |
| Col46 | 45 | 0.06  | 0.00 | 0.00  |
| Col46 | 46 | 0.26  | 0.00 | 0.00  |
| Col46 | 47 | 0.14  | 0.00 | 0.00  |
| Col46 | 48 | 0.18  | 0.00 | 0.00  |
| Col46 | 49 | 0.07  | 0.00 | 0.00  |
| Col46 | 50 | 0.07  | 0.00 | 0.00  |
| Col46 | 51 | 0.06  | 0.00 | 0.00  |
| Col46 | 52 | 0.06  | 0.00 | 0.00  |
| Col47 | 1  | 0.30  | 0.00 | 0.00  |
| Col47 | 2  | 0.07  | 0.00 | 0.00  |
| Col47 | 3  | 0.23  | 0.00 | 0.00  |
| Col47 | 4  | 0.23  | 0.00 | 0.00  |
| Col47 | 5  | 0.25  | 0.00 | 0.00  |
| Col47 | 6  | 0.19  | 0.00 | 0.00  |
| Col47 | 7  | 0.19  | 0.00 | 0.00  |
| Col47 | 8  | -0.08 | 0.00 | -0.34 |
| Col47 | 9  | -0.02 | 0.00 | -0.34 |
| Col47 | 10 | -0.08 | 0.00 | 0.38  |
| Col47 | 11 | -0.02 | 0.00 | 0.38  |
| Col47 | 12 | -0.08 | 0.00 | 0.38  |
| Col47 | 13 | -0.02 | 0.00 | 0.38  |
| Col47 | 14 | -0.03 | 0.00 | 0.38  |
| Col47 | 15 | 0.03  | 0.00 | 0.38  |
| Col47 | 16 | 0.18  | 0.00 | 0.28  |
| Col47 | 17 | 0.22  | 0.00 | 0.28  |
| Col47 | 18 | 0.14  | 0.00 | 0.28  |
| Col47 | 19 | 0.18  | 0.00 | 0.28  |
| Col47 | 20 | 0.12  | 0.00 | 0.28  |
| Col47 | 21 | 0.16  | 0.00 | 0.28  |
| Col47 | 22 | 0.08  | 0.00 | 0.28  |
| Col47 | 23 | 0.13  | 0.00 | 0.28  |
| Col47 | 24 | 0.12  | 0.00 | 0.28  |
| Col47 | 25 | 0.16  | 0.00 | 0.28  |
| Col47 | 26 | 0.08  | 0.00 | 0.28  |
| Col47 | 27 | 0.13  | 0.00 | 0.28  |
| Col47 | 28 | -0.08 | 0.00 | -0.34 |
| Col47 | 29 | -0.03 | 0.00 | -0.34 |
| Col47 | 30 | -0.08 | 0.00 | 0.38  |
| Col47 | 31 | -0.03 | 0.00 | 0.38  |
| Col47 | 32 | -0.08 | 0.00 | 0.38  |
| Col47 | 33 | -0.03 | 0.00 | 0.38  |
| Col47 | 34 | -0.04 | 0.00 | 0.38  |
| Col47 | 35 | 0.02  | 0.00 | 0.38  |
| Col47 | 36 | 0.07  | 0.00 | 0.00  |
| Col47 | 37 | 0.07  | 0.00 | 0.00  |
| Col47 | 38 | 0.25  | 0.00 | 0.00  |
| Col47 | 39 | 0.25  | 0.00 | 0.00  |
| Col47 | 40 | 0.19  | 0.00 | 0.00  |
| Col47 | 41 | 0.19  | 0.00 | 0.00  |
| Col47 | 42 | 0.19  | 0.00 | 0.00  |
| Col47 | 43 | 0.19  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col47 | 44 | 0.06  | 0.00 | 0.00  |
| Col47 | 45 | 0.06  | 0.00 | 0.00  |
| Col47 | 46 | 0.26  | 0.00 | 0.00  |
| Col47 | 47 | 0.14  | 0.00 | 0.28  |
| Col47 | 48 | 0.18  | 0.00 | 0.28  |
| Col47 | 49 | 0.07  | 0.00 | 0.00  |
| Col47 | 50 | 0.07  | 0.00 | 0.00  |
| Col47 | 51 | 0.06  | 0.00 | 0.00  |
| Col47 | 52 | 0.06  | 0.00 | 0.00  |
| Col48 | 1  | 0.30  | 0.00 | 0.00  |
| Col48 | 2  | 0.07  | 0.00 | 0.00  |
| Col48 | 3  | 0.23  | 0.00 | 0.00  |
| Col48 | 4  | 0.23  | 0.00 | 0.00  |
| Col48 | 5  | 0.25  | 0.00 | 0.00  |
| Col48 | 6  | 0.19  | 0.00 | 0.00  |
| Col48 | 7  | 0.19  | 0.00 | 0.00  |
| Col48 | 8  | -0.08 | 0.00 | -0.34 |
| Col48 | 9  | -0.02 | 0.00 | -0.34 |
| Col48 | 10 | -0.08 | 0.00 | 0.38  |
| Col48 | 11 | -0.02 | 0.00 | 0.38  |
| Col48 | 12 | -0.08 | 0.00 | 0.38  |
| Col48 | 13 | -0.02 | 0.00 | 0.38  |
| Col48 | 14 | -0.03 | 0.00 | 0.38  |
| Col48 | 15 | 0.03  | 0.00 | 0.38  |
| Col48 | 16 | 0.18  | 0.00 | 0.28  |
| Col48 | 17 | 0.22  | 0.00 | 0.28  |
| Col48 | 18 | 0.14  | 0.00 | 0.28  |
| Col48 | 19 | 0.18  | 0.00 | 0.28  |
| Col48 | 20 | 0.12  | 0.00 | 0.28  |
| Col48 | 21 | 0.16  | 0.00 | 0.28  |
| Col48 | 22 | 0.08  | 0.00 | 0.28  |
| Col48 | 23 | 0.13  | 0.00 | 0.28  |
| Col48 | 24 | 0.12  | 0.00 | 0.28  |
| Col48 | 25 | 0.16  | 0.00 | 0.28  |
| Col48 | 26 | 0.08  | 0.00 | 0.28  |
| Col48 | 27 | 0.13  | 0.00 | 0.28  |
| Col48 | 28 | -0.08 | 0.00 | -0.34 |
| Col48 | 29 | -0.03 | 0.00 | -0.34 |
| Col48 | 30 | -0.08 | 0.00 | 0.38  |
| Col48 | 31 | -0.03 | 0.00 | 0.38  |
| Col48 | 32 | -0.08 | 0.00 | 0.38  |
| Col48 | 33 | -0.03 | 0.00 | 0.38  |
| Col48 | 34 | -0.04 | 0.00 | 0.38  |
| Col48 | 35 | 0.02  | 0.00 | 0.38  |
| Col48 | 36 | 0.07  | 0.00 | 0.00  |
| Col48 | 37 | 0.07  | 0.00 | 0.00  |
| Col48 | 38 | 0.25  | 0.00 | 0.00  |
| Col48 | 39 | 0.25  | 0.00 | 0.00  |
| Col48 | 40 | 0.19  | 0.00 | 0.00  |
| Col48 | 41 | 0.19  | 0.00 | 0.00  |
| Col48 | 42 | 0.19  | 0.00 | 0.00  |
| Col48 | 43 | 0.19  | 0.00 | 0.00  |
| Col48 | 44 | 0.06  | 0.00 | 0.00  |
| Col48 | 45 | 0.06  | 0.00 | 0.00  |
| Col48 | 46 | 0.26  | 0.00 | 0.00  |
| Col48 | 47 | 0.14  | 0.00 | 0.28  |
| Col48 | 48 | 0.18  | 0.00 | 0.28  |
| Col48 | 49 | 0.07  | 0.00 | 0.00  |
| Col48 | 50 | 0.07  | 0.00 | 0.00  |
| Col48 | 51 | 0.06  | 0.00 | 0.00  |
| Col48 | 52 | 0.06  | 0.00 | 0.00  |
| Col49 | 1  | 0.30  | 0.00 | 0.00  |
| Col49 | 2  | 0.07  | 0.00 | 0.00  |
| Col49 | 3  | 0.23  | 0.00 | 0.00  |
| Col49 | 4  | 0.23  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col49 | 5  | 0.25  | 0.00 | 0.00  |
| Col49 | 6  | 0.19  | 0.00 | 0.00  |
| Col49 | 7  | 0.19  | 0.00 | 0.00  |
| Col49 | 8  | -0.08 | 0.00 | 0.00  |
| Col49 | 9  | -0.02 | 0.00 | 0.00  |
| Col49 | 10 | -0.08 | 0.00 | 0.00  |
| Col49 | 11 | -0.02 | 0.00 | 0.00  |
| Col49 | 12 | -0.08 | 0.00 | 0.00  |
| Col49 | 13 | -0.02 | 0.00 | 0.00  |
| Col49 | 14 | -0.03 | 0.00 | 0.00  |
| Col49 | 15 | 0.03  | 0.00 | 0.00  |
| Col49 | 16 | 0.18  | 0.00 | 0.00  |
| Col49 | 17 | 0.22  | 0.00 | 0.00  |
| Col49 | 18 | 0.14  | 0.00 | 0.00  |
| Col49 | 19 | 0.18  | 0.00 | 0.00  |
| Col49 | 20 | 0.12  | 0.00 | 0.00  |
| Col49 | 21 | 0.16  | 0.00 | 0.00  |
| Col49 | 22 | 0.08  | 0.00 | 0.00  |
| Col49 | 23 | 0.13  | 0.00 | 0.00  |
| Col49 | 24 | 0.12  | 0.00 | 0.00  |
| Col49 | 25 | 0.16  | 0.00 | 0.00  |
| Col49 | 26 | 0.08  | 0.00 | 0.00  |
| Col49 | 27 | 0.13  | 0.00 | 0.00  |
| Col49 | 28 | -0.08 | 0.00 | 0.00  |
| Col49 | 29 | -0.03 | 0.00 | 0.00  |
| Col49 | 30 | -0.08 | 0.00 | 0.00  |
| Col49 | 31 | -0.03 | 0.00 | 0.00  |
| Col49 | 32 | -0.08 | 0.00 | 0.00  |
| Col49 | 33 | -0.03 | 0.00 | 0.00  |
| Col49 | 34 | -0.04 | 0.00 | 0.00  |
| Col49 | 35 | 0.02  | 0.00 | 0.00  |
| Col49 | 36 | 0.07  | 0.00 | 0.00  |
| Col49 | 37 | 0.07  | 0.00 | 0.00  |
| Col49 | 38 | 0.25  | 0.00 | 0.00  |
| Col49 | 39 | 0.25  | 0.00 | 0.00  |
| Col49 | 40 | 0.19  | 0.00 | 0.00  |
| Col49 | 41 | 0.19  | 0.00 | 0.00  |
| Col49 | 42 | 0.19  | 0.00 | 0.00  |
| Col49 | 43 | 0.19  | 0.00 | 0.00  |
| Col49 | 44 | 0.06  | 0.00 | 0.00  |
| Col49 | 45 | 0.06  | 0.00 | 0.00  |
| Col49 | 46 | 0.26  | 0.00 | 0.00  |
| Col49 | 47 | 0.14  | 0.00 | 0.00  |
| Col49 | 48 | 0.18  | 0.00 | 0.00  |
| Col49 | 49 | 0.07  | 0.00 | 0.00  |
| Col49 | 50 | 0.07  | 0.00 | 0.00  |
| Col49 | 51 | 0.06  | 0.00 | 0.00  |
| Col49 | 52 | 0.06  | 0.00 | 0.00  |
| Col50 | 1  | 0.30  | 0.00 | 0.00  |
| Col50 | 2  | 0.07  | 0.00 | 0.00  |
| Col50 | 3  | 0.23  | 0.00 | 0.00  |
| Col50 | 4  | 0.23  | 0.00 | 0.00  |
| Col50 | 5  | 0.25  | 0.00 | 0.00  |
| Col50 | 6  | 0.19  | 0.00 | 0.00  |
| Col50 | 7  | 0.19  | 0.00 | 0.00  |
| Col50 | 8  | -0.08 | 0.00 | -0.34 |
| Col50 | 9  | -0.02 | 0.00 | -0.34 |
| Col50 | 10 | -0.08 | 0.00 | 0.38  |
| Col50 | 11 | -0.02 | 0.00 | 0.38  |
| Col50 | 12 | -0.08 | 0.00 | 0.38  |
| Col50 | 13 | -0.02 | 0.00 | 0.38  |
| Col50 | 14 | -0.03 | 0.00 | 0.38  |
| Col50 | 15 | 0.03  | 0.00 | 0.38  |
| Col50 | 16 | 0.18  | 0.00 | 0.28  |
| Col50 | 17 | 0.22  | 0.00 | 0.28  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col50 | 18 | 0.14  | 0.00 | 0.28  |
| Col50 | 19 | 0.18  | 0.00 | 0.28  |
| Col50 | 20 | 0.12  | 0.00 | 0.28  |
| Col50 | 21 | 0.16  | 0.00 | 0.28  |
| Col50 | 22 | 0.08  | 0.00 | 0.28  |
| Col50 | 23 | 0.13  | 0.00 | 0.28  |
| Col50 | 24 | 0.12  | 0.00 | 0.28  |
| Col50 | 25 | 0.16  | 0.00 | 0.28  |
| Col50 | 26 | 0.08  | 0.00 | 0.28  |
| Col50 | 27 | 0.13  | 0.00 | 0.28  |
| Col50 | 28 | -0.08 | 0.00 | -0.34 |
| Col50 | 29 | -0.03 | 0.00 | -0.34 |
| Col50 | 30 | -0.08 | 0.00 | 0.38  |
| Col50 | 31 | -0.03 | 0.00 | 0.38  |
| Col50 | 32 | -0.08 | 0.00 | 0.38  |
| Col50 | 33 | -0.03 | 0.00 | 0.38  |
| Col50 | 34 | -0.04 | 0.00 | 0.38  |
| Col50 | 35 | 0.02  | 0.00 | 0.38  |
| Col50 | 36 | 0.07  | 0.00 | 0.00  |
| Col50 | 37 | 0.07  | 0.00 | 0.00  |
| Col50 | 38 | 0.25  | 0.00 | 0.00  |
| Col50 | 39 | 0.25  | 0.00 | 0.00  |
| Col50 | 40 | 0.19  | 0.00 | 0.00  |
| Col50 | 41 | 0.19  | 0.00 | 0.00  |
| Col50 | 42 | 0.19  | 0.00 | 0.00  |
| Col50 | 43 | 0.19  | 0.00 | 0.00  |
| Col50 | 44 | 0.06  | 0.00 | 0.00  |
| Col50 | 45 | 0.06  | 0.00 | 0.00  |
| Col50 | 46 | 0.26  | 0.00 | 0.00  |
| Col50 | 47 | 0.14  | 0.00 | 0.28  |
| Col50 | 48 | 0.18  | 0.00 | 0.28  |
| Col50 | 49 | 0.07  | 0.00 | 0.00  |
| Col50 | 50 | 0.07  | 0.00 | 0.00  |
| Col50 | 51 | 0.06  | 0.00 | 0.00  |
| Col50 | 52 | 0.06  | 0.00 | 0.00  |
| Col51 | 1  | 0.30  | 0.00 | 0.00  |
| Col51 | 2  | 0.07  | 0.00 | 0.00  |
| Col51 | 3  | 0.23  | 0.00 | 0.00  |
| Col51 | 4  | 0.23  | 0.00 | 0.00  |
| Col51 | 5  | 0.25  | 0.00 | 0.00  |
| Col51 | 6  | 0.19  | 0.00 | 0.00  |
| Col51 | 7  | 0.19  | 0.00 | 0.00  |
| Col51 | 8  | -0.08 | 0.00 | -0.34 |
| Col51 | 9  | -0.02 | 0.00 | -0.34 |
| Col51 | 10 | -0.08 | 0.00 | 0.39  |
| Col51 | 11 | -0.02 | 0.00 | 0.39  |
| Col51 | 12 | -0.08 | 0.00 | 0.39  |
| Col51 | 13 | -0.02 | 0.00 | 0.39  |
| Col51 | 14 | -0.03 | 0.00 | 0.39  |
| Col51 | 15 | 0.03  | 0.00 | 0.39  |
| Col51 | 16 | 0.18  | 0.00 | 0.29  |
| Col51 | 17 | 0.22  | 0.00 | 0.29  |
| Col51 | 18 | 0.14  | 0.00 | 0.29  |
| Col51 | 19 | 0.18  | 0.00 | 0.29  |
| Col51 | 20 | 0.12  | 0.00 | 0.29  |
| Col51 | 21 | 0.16  | 0.00 | 0.29  |
| Col51 | 22 | 0.08  | 0.00 | 0.29  |
| Col51 | 23 | 0.13  | 0.00 | 0.29  |
| Col51 | 24 | 0.12  | 0.00 | 0.29  |
| Col51 | 25 | 0.16  | 0.00 | 0.29  |
| Col51 | 26 | 0.08  | 0.00 | 0.29  |
| Col51 | 27 | 0.13  | 0.00 | 0.29  |
| Col51 | 28 | -0.08 | 0.00 | -0.34 |
| Col51 | 29 | -0.03 | 0.00 | -0.34 |
| Col51 | 30 | -0.08 | 0.00 | 0.39  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col51 | 31 | -0.03 | 0.00 | 0.39  |
| Col51 | 32 | -0.08 | 0.00 | 0.39  |
| Col51 | 33 | -0.03 | 0.00 | 0.39  |
| Col51 | 34 | -0.04 | 0.00 | 0.39  |
| Col51 | 35 | 0.02  | 0.00 | 0.39  |
| Col51 | 36 | 0.07  | 0.00 | 0.00  |
| Col51 | 37 | 0.07  | 0.00 | 0.00  |
| Col51 | 38 | 0.25  | 0.00 | 0.00  |
| Col51 | 39 | 0.25  | 0.00 | 0.00  |
| Col51 | 40 | 0.19  | 0.00 | 0.00  |
| Col51 | 41 | 0.19  | 0.00 | 0.00  |
| Col51 | 42 | 0.19  | 0.00 | 0.00  |
| Col51 | 43 | 0.19  | 0.00 | 0.00  |
| Col51 | 44 | 0.06  | 0.00 | 0.00  |
| Col51 | 45 | 0.06  | 0.00 | 0.00  |
| Col51 | 46 | 0.26  | 0.00 | 0.00  |
| Col51 | 47 | 0.14  | 0.00 | 0.29  |
| Col51 | 48 | 0.18  | 0.00 | 0.29  |
| Col51 | 49 | 0.07  | 0.00 | 0.00  |
| Col51 | 50 | 0.07  | 0.00 | 0.00  |
| Col51 | 51 | 0.06  | 0.00 | 0.00  |
| Col51 | 52 | 0.06  | 0.00 | 0.00  |
| Col52 | 1  | 0.17  | 0.00 | 0.00  |
| Col52 | 2  | 0.05  | 0.00 | 0.00  |
| Col52 | 3  | 0.13  | 0.00 | 0.00  |
| Col52 | 4  | 0.13  | 0.00 | 0.00  |
| Col52 | 5  | 0.14  | 0.00 | 0.00  |
| Col52 | 6  | 0.11  | 0.00 | 0.00  |
| Col52 | 7  | 0.11  | 0.00 | 0.00  |
| Col52 | 8  | -0.02 | 0.00 | -0.17 |
| Col52 | 9  | 0.01  | 0.00 | -0.17 |
| Col52 | 10 | -0.02 | 0.00 | 0.20  |
| Col52 | 11 | 0.01  | 0.00 | 0.20  |
| Col52 | 12 | -0.02 | 0.00 | 0.20  |
| Col52 | 13 | 0.01  | 0.00 | 0.20  |
| Col52 | 14 | 0.00  | 0.00 | 0.20  |
| Col52 | 15 | 0.03  | 0.00 | 0.20  |
| Col52 | 16 | 0.10  | 0.00 | 0.15  |
| Col52 | 17 | 0.13  | 0.00 | 0.15  |
| Col52 | 18 | 0.09  | 0.00 | 0.15  |
| Col52 | 19 | 0.11  | 0.00 | 0.15  |
| Col52 | 20 | 0.08  | 0.00 | 0.15  |
| Col52 | 21 | 0.10  | 0.00 | 0.15  |
| Col52 | 22 | 0.06  | 0.00 | 0.15  |
| Col52 | 23 | 0.08  | 0.00 | 0.15  |
| Col52 | 24 | 0.08  | 0.00 | 0.15  |
| Col52 | 25 | 0.10  | 0.00 | 0.15  |
| Col52 | 26 | 0.06  | 0.00 | 0.15  |
| Col52 | 27 | 0.08  | 0.00 | 0.15  |
| Col52 | 28 | -0.03 | 0.00 | -0.17 |
| Col52 | 29 | 0.00  | 0.00 | -0.17 |
| Col52 | 30 | -0.03 | 0.00 | 0.20  |
| Col52 | 31 | 0.00  | 0.00 | 0.20  |
| Col52 | 32 | -0.03 | 0.00 | 0.20  |
| Col52 | 33 | 0.00  | 0.00 | 0.20  |
| Col52 | 34 | 0.00  | 0.00 | 0.20  |
| Col52 | 35 | 0.03  | 0.00 | 0.20  |
| Col52 | 36 | 0.05  | 0.00 | 0.00  |
| Col52 | 37 | 0.05  | 0.00 | 0.00  |
| Col52 | 38 | 0.14  | 0.00 | 0.00  |
| Col52 | 39 | 0.14  | 0.00 | 0.00  |
| Col52 | 40 | 0.11  | 0.00 | 0.00  |
| Col52 | 41 | 0.11  | 0.00 | 0.00  |
| Col52 | 42 | 0.11  | 0.00 | 0.00  |
| Col52 | 43 | 0.11  | 0.00 | 0.00  |

|       |    |      |      |      |
|-------|----|------|------|------|
| Col52 | 44 | 0.04 | 0.00 | 0.00 |
| Col52 | 45 | 0.04 | 0.00 | 0.00 |
| Col52 | 46 | 0.15 | 0.00 | 0.00 |
| Col52 | 47 | 0.09 | 0.00 | 0.15 |
| Col52 | 48 | 0.11 | 0.00 | 0.15 |
| Col52 | 49 | 0.05 | 0.00 | 0.00 |
| Col52 | 50 | 0.05 | 0.00 | 0.00 |
| Col52 | 51 | 0.04 | 0.00 | 0.00 |
| Col52 | 52 | 0.04 | 0.00 | 0.00 |

COLUMN DEFLECTIONS:

| Load  |      | Deflection(in) |       |
|-------|------|----------------|-------|
| Id    | Id   | Calc           | Limit |
| ----- | ---- | -----          | ----- |
| Col28 | 1    | 0.00           | 0.99  |
| Col28 | 2    | 0.00           | 0.99  |
| Col28 | 3    | 0.00           | 0.99  |
| Col28 | 4    | 0.00           | 0.99  |
| Col28 | 5    | 0.00           | 0.99  |
| Col28 | 6    | 0.00           | 0.99  |
| Col28 | 7    | 0.00           | 0.99  |
| Col28 | 8    | -0.23          | 0.99  |
| Col28 | 9    | -0.23          | 0.99  |
| Col28 | 10   | 0.27           | 0.99  |
| Col28 | 11   | 0.27           | 0.99  |
| Col28 | 12   | 0.27           | 0.99  |
| Col28 | 13   | 0.27           | 0.99  |
| Col28 | 14   | 0.27           | 0.99  |
| Col28 | 15   | 0.27           | 0.99  |
| Col28 | 16   | 0.20           | 0.99  |
| Col28 | 17   | 0.20           | 0.99  |
| Col28 | 18   | 0.20           | 0.99  |
| Col28 | 19   | 0.20           | 0.99  |
| Col28 | 20   | 0.20           | 0.99  |
| Col28 | 21   | 0.20           | 0.99  |
| Col28 | 22   | 0.20           | 0.99  |
| Col28 | 23   | 0.20           | 0.99  |
| Col28 | 24   | 0.20           | 0.99  |
| Col28 | 25   | 0.20           | 0.99  |
| Col28 | 26   | 0.20           | 0.99  |
| Col28 | 27   | 0.20           | 0.99  |
| Col28 | 28   | -0.23          | 0.99  |
| Col28 | 29   | -0.23          | 0.99  |
| Col28 | 30   | 0.27           | 0.99  |
| Col28 | 31   | 0.27           | 0.99  |
| Col28 | 32   | 0.27           | 0.99  |
| Col28 | 33   | 0.27           | 0.99  |
| Col28 | 34   | 0.27           | 0.99  |
| Col28 | 35   | 0.27           | 0.99  |
| Col28 | 36   | 0.00           | 0.99  |
| Col28 | 37   | 0.00           | 0.99  |
| Col28 | 38   | 0.00           | 0.99  |
| Col28 | 39   | 0.00           | 0.99  |
| Col28 | 40   | 0.00           | 0.99  |
| Col28 | 41   | 0.00           | 0.99  |
| Col28 | 42   | 0.00           | 0.99  |
| Col28 | 43   | 0.00           | 0.99  |
| Col28 | 44   | 0.00           | 0.99  |
| Col28 | 45   | 0.00           | 0.99  |
| Col28 | 46   | 0.00           | 0.99  |
| Col28 | 47   | 0.12           | 0.99  |
| Col28 | 48   | 0.12           | 0.99  |
| Col29 | 1    | 0.00           | 0.99  |
| Col29 | 2    | 0.00           | 0.99  |

|        |    |       |      |
|--------|----|-------|------|
| Col129 | 3  | 0.00  | 0.99 |
| Col129 | 4  | 0.00  | 0.99 |
| Col129 | 5  | 0.00  | 0.99 |
| Col129 | 6  | 0.00  | 0.99 |
| Col129 | 7  | 0.00  | 0.99 |
| Col129 | 8  | -0.45 | 0.99 |
| Col129 | 9  | -0.45 | 0.99 |
| Col129 | 10 | 0.51  | 0.99 |
| Col129 | 11 | 0.51  | 0.99 |
| Col129 | 12 | 0.51  | 0.99 |
| Col129 | 13 | 0.51  | 0.99 |
| Col129 | 14 | 0.51  | 0.99 |
| Col129 | 15 | 0.51  | 0.99 |
| Col129 | 16 | 0.38  | 0.99 |
| Col129 | 17 | 0.38  | 0.99 |
| Col129 | 18 | 0.38  | 0.99 |
| Col129 | 19 | 0.38  | 0.99 |
| Col129 | 20 | 0.38  | 0.99 |
| Col129 | 21 | 0.38  | 0.99 |
| Col129 | 22 | 0.38  | 0.99 |
| Col129 | 23 | 0.38  | 0.99 |
| Col129 | 24 | 0.38  | 0.99 |
| Col129 | 25 | 0.38  | 0.99 |
| Col129 | 26 | 0.38  | 0.99 |
| Col129 | 27 | 0.38  | 0.99 |
| Col129 | 28 | -0.45 | 0.99 |
| Col129 | 29 | -0.45 | 0.99 |
| Col129 | 30 | 0.51  | 0.99 |
| Col129 | 31 | 0.51  | 0.99 |
| Col129 | 32 | 0.51  | 0.99 |
| Col129 | 33 | 0.51  | 0.99 |
| Col129 | 34 | 0.51  | 0.99 |
| Col129 | 35 | 0.51  | 0.99 |
| Col129 | 36 | 0.00  | 0.99 |
| Col129 | 37 | 0.00  | 0.99 |
| Col129 | 38 | 0.00  | 0.99 |
| Col129 | 39 | 0.00  | 0.99 |
| Col129 | 40 | 0.00  | 0.99 |
| Col129 | 41 | 0.00  | 0.99 |
| Col129 | 42 | 0.00  | 0.99 |
| Col129 | 43 | 0.00  | 0.99 |
| Col129 | 44 | 0.00  | 0.99 |
| Col129 | 45 | 0.00  | 0.99 |
| Col129 | 46 | 0.00  | 0.99 |
| Col129 | 47 | 0.23  | 0.99 |
| Col129 | 48 | 0.23  | 0.99 |
| Col130 | 1  | 0.00  | 0.99 |
| Col130 | 2  | 0.00  | 0.99 |
| Col130 | 3  | 0.00  | 0.99 |
| Col130 | 4  | 0.00  | 0.99 |
| Col130 | 5  | 0.00  | 0.99 |
| Col130 | 6  | 0.00  | 0.99 |
| Col130 | 7  | 0.00  | 0.99 |
| Col130 | 8  | -0.45 | 0.99 |
| Col130 | 9  | -0.45 | 0.99 |
| Col130 | 10 | 0.50  | 0.99 |
| Col130 | 11 | 0.50  | 0.99 |
| Col130 | 12 | 0.50  | 0.99 |
| Col130 | 13 | 0.50  | 0.99 |
| Col130 | 14 | 0.50  | 0.99 |
| Col130 | 15 | 0.50  | 0.99 |
| Col130 | 16 | 0.37  | 0.99 |
| Col130 | 17 | 0.37  | 0.99 |
| Col130 | 18 | 0.37  | 0.99 |
| Col130 | 19 | 0.37  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col130 | 20 | 0.37  | 0.99 |
| Col130 | 21 | 0.37  | 0.99 |
| Col130 | 22 | 0.37  | 0.99 |
| Col130 | 23 | 0.37  | 0.99 |
| Col130 | 24 | 0.37  | 0.99 |
| Col130 | 25 | 0.37  | 0.99 |
| Col130 | 26 | 0.37  | 0.99 |
| Col130 | 27 | 0.37  | 0.99 |
| Col130 | 28 | -0.45 | 0.99 |
| Col130 | 29 | -0.45 | 0.99 |
| Col130 | 30 | 0.50  | 0.99 |
| Col130 | 31 | 0.50  | 0.99 |
| Col130 | 32 | 0.50  | 0.99 |
| Col130 | 33 | 0.50  | 0.99 |
| Col130 | 34 | 0.50  | 0.99 |
| Col130 | 35 | 0.50  | 0.99 |
| Col130 | 36 | 0.00  | 0.99 |
| Col130 | 37 | 0.00  | 0.99 |
| Col130 | 38 | 0.00  | 0.99 |
| Col130 | 39 | 0.00  | 0.99 |
| Col130 | 40 | 0.00  | 0.99 |
| Col130 | 41 | 0.00  | 0.99 |
| Col130 | 42 | 0.00  | 0.99 |
| Col130 | 43 | 0.00  | 0.99 |
| Col130 | 44 | 0.00  | 0.99 |
| Col130 | 45 | 0.00  | 0.99 |
| Col130 | 46 | 0.00  | 0.99 |
| Col130 | 47 | 0.22  | 0.99 |
| Col130 | 48 | 0.22  | 0.99 |
| Col131 | 1  | 0.00  | 0.99 |
| Col131 | 2  | 0.00  | 0.99 |
| Col131 | 3  | 0.00  | 0.99 |
| Col131 | 4  | 0.00  | 0.99 |
| Col131 | 5  | 0.00  | 0.99 |
| Col131 | 6  | 0.00  | 0.99 |
| Col131 | 7  | 0.00  | 0.99 |
| Col131 | 8  | 0.00  | 0.99 |
| Col131 | 9  | 0.00  | 0.99 |
| Col131 | 10 | 0.00  | 0.99 |
| Col131 | 11 | 0.00  | 0.99 |
| Col131 | 12 | 0.00  | 0.99 |
| Col131 | 13 | 0.00  | 0.99 |
| Col131 | 14 | 0.00  | 0.99 |
| Col131 | 15 | 0.00  | 0.99 |
| Col131 | 16 | 0.00  | 0.99 |
| Col131 | 17 | 0.00  | 0.99 |
| Col131 | 18 | 0.00  | 0.99 |
| Col131 | 19 | 0.00  | 0.99 |
| Col131 | 20 | 0.00  | 0.99 |
| Col131 | 21 | 0.00  | 0.99 |
| Col131 | 22 | 0.00  | 0.99 |
| Col131 | 23 | 0.00  | 0.99 |
| Col131 | 24 | 0.00  | 0.99 |
| Col131 | 25 | 0.00  | 0.99 |
| Col131 | 26 | 0.00  | 0.99 |
| Col131 | 27 | 0.00  | 0.99 |
| Col131 | 28 | 0.00  | 0.99 |
| Col131 | 29 | 0.00  | 0.99 |
| Col131 | 30 | 0.00  | 0.99 |
| Col131 | 31 | 0.00  | 0.99 |
| Col131 | 32 | 0.00  | 0.99 |
| Col131 | 33 | 0.00  | 0.99 |
| Col131 | 34 | 0.00  | 0.99 |
| Col131 | 35 | 0.00  | 0.99 |
| Col131 | 36 | 0.00  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col131 | 37 | 0.00  | 0.99 |
| Col131 | 38 | 0.00  | 0.99 |
| Col131 | 39 | 0.00  | 0.99 |
| Col131 | 40 | 0.00  | 0.99 |
| Col131 | 41 | 0.00  | 0.99 |
| Col131 | 42 | 0.00  | 0.99 |
| Col131 | 43 | 0.00  | 0.99 |
| Col131 | 44 | 0.00  | 0.99 |
| Col131 | 45 | 0.00  | 0.99 |
| Col131 | 46 | 0.00  | 0.99 |
| Col131 | 47 | 0.00  | 0.99 |
| Col131 | 48 | 0.00  | 0.99 |
| Col132 | 1  | 0.00  | 0.99 |
| Col132 | 2  | 0.00  | 0.99 |
| Col132 | 3  | 0.00  | 0.99 |
| Col132 | 4  | 0.00  | 0.99 |
| Col132 | 5  | 0.00  | 0.99 |
| Col132 | 6  | 0.00  | 0.99 |
| Col132 | 7  | 0.00  | 0.99 |
| Col132 | 8  | -0.45 | 0.99 |
| Col132 | 9  | -0.45 | 0.99 |
| Col132 | 10 | 0.50  | 0.99 |
| Col132 | 11 | 0.50  | 0.99 |
| Col132 | 12 | 0.50  | 0.99 |
| Col132 | 13 | 0.50  | 0.99 |
| Col132 | 14 | 0.50  | 0.99 |
| Col132 | 15 | 0.50  | 0.99 |
| Col132 | 16 | 0.37  | 0.99 |
| Col132 | 17 | 0.37  | 0.99 |
| Col132 | 18 | 0.37  | 0.99 |
| Col132 | 19 | 0.37  | 0.99 |
| Col132 | 20 | 0.37  | 0.99 |
| Col132 | 21 | 0.37  | 0.99 |
| Col132 | 22 | 0.37  | 0.99 |
| Col132 | 23 | 0.37  | 0.99 |
| Col132 | 24 | 0.37  | 0.99 |
| Col132 | 25 | 0.37  | 0.99 |
| Col132 | 26 | 0.37  | 0.99 |
| Col132 | 27 | 0.37  | 0.99 |
| Col132 | 28 | -0.45 | 0.99 |
| Col132 | 29 | -0.45 | 0.99 |
| Col132 | 30 | 0.50  | 0.99 |
| Col132 | 31 | 0.50  | 0.99 |
| Col132 | 32 | 0.50  | 0.99 |
| Col132 | 33 | 0.50  | 0.99 |
| Col132 | 34 | 0.50  | 0.99 |
| Col132 | 35 | 0.50  | 0.99 |
| Col132 | 36 | 0.00  | 0.99 |
| Col132 | 37 | 0.00  | 0.99 |
| Col132 | 38 | 0.00  | 0.99 |
| Col132 | 39 | 0.00  | 0.99 |
| Col132 | 40 | 0.00  | 0.99 |
| Col132 | 41 | 0.00  | 0.99 |
| Col132 | 42 | 0.00  | 0.99 |
| Col132 | 43 | 0.00  | 0.99 |
| Col132 | 44 | 0.00  | 0.99 |
| Col132 | 45 | 0.00  | 0.99 |
| Col132 | 46 | 0.00  | 0.99 |
| Col132 | 47 | 0.22  | 0.99 |
| Col132 | 48 | 0.22  | 0.99 |
| Col133 | 1  | 0.00  | 0.99 |
| Col133 | 2  | 0.00  | 0.99 |
| Col133 | 3  | 0.00  | 0.99 |
| Col133 | 4  | 0.00  | 0.99 |
| Col133 | 5  | 0.00  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col133 | 6  | 0.00  | 0.99 |
| Col133 | 7  | 0.00  | 0.99 |
| Col133 | 8  | -0.45 | 0.99 |
| Col133 | 9  | -0.45 | 0.99 |
| Col133 | 10 | 0.50  | 0.99 |
| Col133 | 11 | 0.50  | 0.99 |
| Col133 | 12 | 0.50  | 0.99 |
| Col133 | 13 | 0.50  | 0.99 |
| Col133 | 14 | 0.50  | 0.99 |
| Col133 | 15 | 0.50  | 0.99 |
| Col133 | 16 | 0.37  | 0.99 |
| Col133 | 17 | 0.37  | 0.99 |
| Col133 | 18 | 0.37  | 0.99 |
| Col133 | 19 | 0.37  | 0.99 |
| Col133 | 20 | 0.37  | 0.99 |
| Col133 | 21 | 0.37  | 0.99 |
| Col133 | 22 | 0.37  | 0.99 |
| Col133 | 23 | 0.37  | 0.99 |
| Col133 | 24 | 0.37  | 0.99 |
| Col133 | 25 | 0.37  | 0.99 |
| Col133 | 26 | 0.37  | 0.99 |
| Col133 | 27 | 0.37  | 0.99 |
| Col133 | 28 | -0.45 | 0.99 |
| Col133 | 29 | -0.45 | 0.99 |
| Col133 | 30 | 0.50  | 0.99 |
| Col133 | 31 | 0.50  | 0.99 |
| Col133 | 32 | 0.50  | 0.99 |
| Col133 | 33 | 0.50  | 0.99 |
| Col133 | 34 | 0.50  | 0.99 |
| Col133 | 35 | 0.50  | 0.99 |
| Col133 | 36 | 0.00  | 0.99 |
| Col133 | 37 | 0.00  | 0.99 |
| Col133 | 38 | 0.00  | 0.99 |
| Col133 | 39 | 0.00  | 0.99 |
| Col133 | 40 | 0.00  | 0.99 |
| Col133 | 41 | 0.00  | 0.99 |
| Col133 | 42 | 0.00  | 0.99 |
| Col133 | 43 | 0.00  | 0.99 |
| Col133 | 44 | 0.00  | 0.99 |
| Col133 | 45 | 0.00  | 0.99 |
| Col133 | 46 | 0.00  | 0.99 |
| Col133 | 47 | 0.22  | 0.99 |
| Col133 | 48 | 0.22  | 0.99 |
| Col134 | 1  | 0.00  | 0.99 |
| Col134 | 2  | 0.00  | 0.99 |
| Col134 | 3  | 0.00  | 0.99 |
| Col134 | 4  | 0.00  | 0.99 |
| Col134 | 5  | 0.00  | 0.99 |
| Col134 | 6  | 0.00  | 0.99 |
| Col134 | 7  | 0.00  | 0.99 |
| Col134 | 8  | 0.00  | 0.99 |
| Col134 | 9  | 0.00  | 0.99 |
| Col134 | 10 | 0.00  | 0.99 |
| Col134 | 11 | 0.00  | 0.99 |
| Col134 | 12 | 0.00  | 0.99 |
| Col134 | 13 | 0.00  | 0.99 |
| Col134 | 14 | 0.00  | 0.99 |
| Col134 | 15 | 0.00  | 0.99 |
| Col134 | 16 | 0.00  | 0.99 |
| Col134 | 17 | 0.00  | 0.99 |
| Col134 | 18 | 0.00  | 0.99 |
| Col134 | 19 | 0.00  | 0.99 |
| Col134 | 20 | 0.00  | 0.99 |
| Col134 | 21 | 0.00  | 0.99 |
| Col134 | 22 | 0.00  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col134 | 23 | 0.00  | 0.99 |
| Col134 | 24 | 0.00  | 0.99 |
| Col134 | 25 | 0.00  | 0.99 |
| Col134 | 26 | 0.00  | 0.99 |
| Col134 | 27 | 0.00  | 0.99 |
| Col134 | 28 | 0.00  | 0.99 |
| Col134 | 29 | 0.00  | 0.99 |
| Col134 | 30 | 0.00  | 0.99 |
| Col134 | 31 | 0.00  | 0.99 |
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| Col134 | 33 | 0.00  | 0.99 |
| Col134 | 34 | 0.00  | 0.99 |
| Col134 | 35 | 0.00  | 0.99 |
| Col134 | 36 | 0.00  | 0.99 |
| Col134 | 37 | 0.00  | 0.99 |
| Col134 | 38 | 0.00  | 0.99 |
| Col134 | 39 | 0.00  | 0.99 |
| Col134 | 40 | 0.00  | 0.99 |
| Col134 | 41 | 0.00  | 0.99 |
| Col134 | 42 | 0.00  | 0.99 |
| Col134 | 43 | 0.00  | 0.99 |
| Col134 | 44 | 0.00  | 0.99 |
| Col134 | 45 | 0.00  | 0.99 |
| Col134 | 46 | 0.00  | 0.99 |
| Col134 | 47 | 0.00  | 0.99 |
| Col134 | 48 | 0.00  | 0.99 |
| Col135 | 1  | 0.00  | 0.99 |
| Col135 | 2  | 0.00  | 0.99 |
| Col135 | 3  | 0.00  | 0.99 |
| Col135 | 4  | 0.00  | 0.99 |
| Col135 | 5  | 0.00  | 0.99 |
| Col135 | 6  | 0.00  | 0.99 |
| Col135 | 7  | 0.00  | 0.99 |
| Col135 | 8  | -0.45 | 0.99 |
| Col135 | 9  | -0.45 | 0.99 |
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| Col135 | 11 | 0.50  | 0.99 |
| Col135 | 12 | 0.50  | 0.99 |
| Col135 | 13 | 0.50  | 0.99 |
| Col135 | 14 | 0.50  | 0.99 |
| Col135 | 15 | 0.50  | 0.99 |
| Col135 | 16 | 0.37  | 0.99 |
| Col135 | 17 | 0.37  | 0.99 |
| Col135 | 18 | 0.37  | 0.99 |
| Col135 | 19 | 0.37  | 0.99 |
| Col135 | 20 | 0.37  | 0.99 |
| Col135 | 21 | 0.37  | 0.99 |
| Col135 | 22 | 0.37  | 0.99 |
| Col135 | 23 | 0.37  | 0.99 |
| Col135 | 24 | 0.37  | 0.99 |
| Col135 | 25 | 0.37  | 0.99 |
| Col135 | 26 | 0.37  | 0.99 |
| Col135 | 27 | 0.37  | 0.99 |
| Col135 | 28 | -0.45 | 0.99 |
| Col135 | 29 | -0.45 | 0.99 |
| Col135 | 30 | 0.50  | 0.99 |
| Col135 | 31 | 0.50  | 0.99 |
| Col135 | 32 | 0.50  | 0.99 |
| Col135 | 33 | 0.50  | 0.99 |
| Col135 | 34 | 0.50  | 0.99 |
| Col135 | 35 | 0.50  | 0.99 |
| Col135 | 36 | 0.00  | 0.99 |
| Col135 | 37 | 0.00  | 0.99 |
| Col135 | 38 | 0.00  | 0.99 |
| Col135 | 39 | 0.00  | 0.99 |

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|--------|----|-------|------|
| Col135 | 40 | 0.00  | 0.99 |
| Col135 | 41 | 0.00  | 0.99 |
| Col135 | 42 | 0.00  | 0.99 |
| Col135 | 43 | 0.00  | 0.99 |
| Col135 | 44 | 0.00  | 0.99 |
| Col135 | 45 | 0.00  | 0.99 |
| Col135 | 46 | 0.00  | 0.99 |
| Col135 | 47 | 0.22  | 0.99 |
| Col135 | 48 | 0.22  | 0.99 |
| Col136 | 1  | 0.00  | 0.99 |
| Col136 | 2  | 0.00  | 0.99 |
| Col136 | 3  | 0.00  | 0.99 |
| Col136 | 4  | 0.00  | 0.99 |
| Col136 | 5  | 0.00  | 0.99 |
| Col136 | 6  | 0.00  | 0.99 |
| Col136 | 7  | 0.00  | 0.99 |
| Col136 | 8  | -0.45 | 0.99 |
| Col136 | 9  | -0.45 | 0.99 |
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| Col136 | 13 | 0.50  | 0.99 |
| Col136 | 14 | 0.50  | 0.99 |
| Col136 | 15 | 0.50  | 0.99 |
| Col136 | 16 | 0.37  | 0.99 |
| Col136 | 17 | 0.37  | 0.99 |
| Col136 | 18 | 0.37  | 0.99 |
| Col136 | 19 | 0.37  | 0.99 |
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| Col136 | 21 | 0.37  | 0.99 |
| Col136 | 22 | 0.37  | 0.99 |
| Col136 | 23 | 0.37  | 0.99 |
| Col136 | 24 | 0.37  | 0.99 |
| Col136 | 25 | 0.37  | 0.99 |
| Col136 | 26 | 0.37  | 0.99 |
| Col136 | 27 | 0.37  | 0.99 |
| Col136 | 28 | -0.45 | 0.99 |
| Col136 | 29 | -0.45 | 0.99 |
| Col136 | 30 | 0.50  | 0.99 |
| Col136 | 31 | 0.50  | 0.99 |
| Col136 | 32 | 0.50  | 0.99 |
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| Col136 | 34 | 0.50  | 0.99 |
| Col136 | 35 | 0.50  | 0.99 |
| Col136 | 36 | 0.00  | 0.99 |
| Col136 | 37 | 0.00  | 0.99 |
| Col136 | 38 | 0.00  | 0.99 |
| Col136 | 39 | 0.00  | 0.99 |
| Col136 | 40 | 0.00  | 0.99 |
| Col136 | 41 | 0.00  | 0.99 |
| Col136 | 42 | 0.00  | 0.99 |
| Col136 | 43 | 0.00  | 0.99 |
| Col136 | 44 | 0.00  | 0.99 |
| Col136 | 45 | 0.00  | 0.99 |
| Col136 | 46 | 0.00  | 0.99 |
| Col136 | 47 | 0.22  | 0.99 |
| Col136 | 48 | 0.22  | 0.99 |
| Col137 | 1  | 0.00  | 0.99 |
| Col137 | 2  | 0.00  | 0.99 |
| Col137 | 3  | 0.00  | 0.99 |
| Col137 | 4  | 0.00  | 0.99 |
| Col137 | 5  | 0.00  | 0.99 |
| Col137 | 6  | 0.00  | 0.99 |
| Col137 | 7  | 0.00  | 0.99 |
| Col137 | 8  | 0.00  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col137 | 9  | 0.00  | 0.99 |
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| Col137 | 12 | 0.00  | 0.99 |
| Col137 | 13 | 0.00  | 0.99 |
| Col137 | 14 | 0.00  | 0.99 |
| Col137 | 15 | 0.00  | 0.99 |
| Col137 | 16 | 0.00  | 0.99 |
| Col137 | 17 | 0.00  | 0.99 |
| Col137 | 18 | 0.00  | 0.99 |
| Col137 | 19 | 0.00  | 0.99 |
| Col137 | 20 | 0.00  | 0.99 |
| Col137 | 21 | 0.00  | 0.99 |
| Col137 | 22 | 0.00  | 0.99 |
| Col137 | 23 | 0.00  | 0.99 |
| Col137 | 24 | 0.00  | 0.99 |
| Col137 | 25 | 0.00  | 0.99 |
| Col137 | 26 | 0.00  | 0.99 |
| Col137 | 27 | 0.00  | 0.99 |
| Col137 | 28 | 0.00  | 0.99 |
| Col137 | 29 | 0.00  | 0.99 |
| Col137 | 30 | 0.00  | 0.99 |
| Col137 | 31 | 0.00  | 0.99 |
| Col137 | 32 | 0.00  | 0.99 |
| Col137 | 33 | 0.00  | 0.99 |
| Col137 | 34 | 0.00  | 0.99 |
| Col137 | 35 | 0.00  | 0.99 |
| Col137 | 36 | 0.00  | 0.99 |
| Col137 | 37 | 0.00  | 0.99 |
| Col137 | 38 | 0.00  | 0.99 |
| Col137 | 39 | 0.00  | 0.99 |
| Col137 | 40 | 0.00  | 0.99 |
| Col137 | 41 | 0.00  | 0.99 |
| Col137 | 42 | 0.00  | 0.99 |
| Col137 | 43 | 0.00  | 0.99 |
| Col137 | 44 | 0.00  | 0.99 |
| Col137 | 45 | 0.00  | 0.99 |
| Col137 | 46 | 0.00  | 0.99 |
| Col137 | 47 | 0.00  | 0.99 |
| Col137 | 48 | 0.00  | 0.99 |
| Col138 | 1  | 0.00  | 0.99 |
| Col138 | 2  | 0.00  | 0.99 |
| Col138 | 3  | 0.00  | 0.99 |
| Col138 | 4  | 0.00  | 0.99 |
| Col138 | 5  | 0.00  | 0.99 |
| Col138 | 6  | 0.00  | 0.99 |
| Col138 | 7  | 0.00  | 0.99 |
| Col138 | 8  | -0.45 | 0.99 |
| Col138 | 9  | -0.45 | 0.99 |
| Col138 | 10 | 0.50  | 0.99 |
| Col138 | 11 | 0.50  | 0.99 |
| Col138 | 12 | 0.50  | 0.99 |
| Col138 | 13 | 0.50  | 0.99 |
| Col138 | 14 | 0.50  | 0.99 |
| Col138 | 15 | 0.50  | 0.99 |
| Col138 | 16 | 0.37  | 0.99 |
| Col138 | 17 | 0.37  | 0.99 |
| Col138 | 18 | 0.37  | 0.99 |
| Col138 | 19 | 0.37  | 0.99 |
| Col138 | 20 | 0.37  | 0.99 |
| Col138 | 21 | 0.37  | 0.99 |
| Col138 | 22 | 0.37  | 0.99 |
| Col138 | 23 | 0.37  | 0.99 |
| Col138 | 24 | 0.37  | 0.99 |
| Col138 | 25 | 0.37  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col138 | 26 | 0.37  | 0.99 |
| Col138 | 27 | 0.37  | 0.99 |
| Col138 | 28 | -0.45 | 0.99 |
| Col138 | 29 | -0.45 | 0.99 |
| Col138 | 30 | 0.50  | 0.99 |
| Col138 | 31 | 0.50  | 0.99 |
| Col138 | 32 | 0.50  | 0.99 |
| Col138 | 33 | 0.50  | 0.99 |
| Col138 | 34 | 0.50  | 0.99 |
| Col138 | 35 | 0.50  | 0.99 |
| Col138 | 36 | 0.00  | 0.99 |
| Col138 | 37 | 0.00  | 0.99 |
| Col138 | 38 | 0.00  | 0.99 |
| Col138 | 39 | 0.00  | 0.99 |
| Col138 | 40 | 0.00  | 0.99 |
| Col138 | 41 | 0.00  | 0.99 |
| Col138 | 42 | 0.00  | 0.99 |
| Col138 | 43 | 0.00  | 0.99 |
| Col138 | 44 | 0.00  | 0.99 |
| Col138 | 45 | 0.00  | 0.99 |
| Col138 | 46 | 0.00  | 0.99 |
| Col138 | 47 | 0.22  | 0.99 |
| Col138 | 48 | 0.22  | 0.99 |
| Col139 | 1  | 0.00  | 0.99 |
| Col139 | 2  | 0.00  | 0.99 |
| Col139 | 3  | 0.00  | 0.99 |
| Col139 | 4  | 0.00  | 0.99 |
| Col139 | 5  | 0.00  | 0.99 |
| Col139 | 6  | 0.00  | 0.99 |
| Col139 | 7  | 0.00  | 0.99 |
| Col139 | 8  | -0.45 | 0.99 |
| Col139 | 9  | -0.45 | 0.99 |
| Col139 | 10 | 0.50  | 0.99 |
| Col139 | 11 | 0.50  | 0.99 |
| Col139 | 12 | 0.50  | 0.99 |
| Col139 | 13 | 0.50  | 0.99 |
| Col139 | 14 | 0.50  | 0.99 |
| Col139 | 15 | 0.50  | 0.99 |
| Col139 | 16 | 0.37  | 0.99 |
| Col139 | 17 | 0.37  | 0.99 |
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| Col139 | 20 | 0.37  | 0.99 |
| Col139 | 21 | 0.37  | 0.99 |
| Col139 | 22 | 0.37  | 0.99 |
| Col139 | 23 | 0.37  | 0.99 |
| Col139 | 24 | 0.37  | 0.99 |
| Col139 | 25 | 0.37  | 0.99 |
| Col139 | 26 | 0.37  | 0.99 |
| Col139 | 27 | 0.37  | 0.99 |
| Col139 | 28 | -0.45 | 0.99 |
| Col139 | 29 | -0.45 | 0.99 |
| Col139 | 30 | 0.50  | 0.99 |
| Col139 | 31 | 0.50  | 0.99 |
| Col139 | 32 | 0.50  | 0.99 |
| Col139 | 33 | 0.50  | 0.99 |
| Col139 | 34 | 0.50  | 0.99 |
| Col139 | 35 | 0.50  | 0.99 |
| Col139 | 36 | 0.00  | 0.99 |
| Col139 | 37 | 0.00  | 0.99 |
| Col139 | 38 | 0.00  | 0.99 |
| Col139 | 39 | 0.00  | 0.99 |
| Col139 | 40 | 0.00  | 0.99 |
| Col139 | 41 | 0.00  | 0.99 |
| Col139 | 42 | 0.00  | 0.99 |

|        |    |       |      |
|--------|----|-------|------|
| Col139 | 43 | 0.00  | 0.99 |
| Col139 | 44 | 0.00  | 0.99 |
| Col139 | 45 | 0.00  | 0.99 |
| Col139 | 46 | 0.00  | 0.99 |
| Col139 | 47 | 0.22  | 0.99 |
| Col139 | 48 | 0.22  | 0.99 |
| Col140 | 1  | 0.00  | 0.99 |
| Col140 | 2  | 0.00  | 0.99 |
| Col140 | 3  | 0.00  | 0.99 |
| Col140 | 4  | 0.00  | 0.99 |
| Col140 | 5  | 0.00  | 0.99 |
| Col140 | 6  | 0.00  | 0.99 |
| Col140 | 7  | 0.00  | 0.99 |
| Col140 | 8  | 0.00  | 0.99 |
| Col140 | 9  | 0.00  | 0.99 |
| Col140 | 10 | 0.00  | 0.99 |
| Col140 | 11 | 0.00  | 0.99 |
| Col140 | 12 | 0.00  | 0.99 |
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| Col140 | 15 | 0.00  | 0.99 |
| Col140 | 16 | 0.00  | 0.99 |
| Col140 | 17 | 0.00  | 0.99 |
| Col140 | 18 | 0.00  | 0.99 |
| Col140 | 19 | 0.00  | 0.99 |
| Col140 | 20 | 0.00  | 0.99 |
| Col140 | 21 | 0.00  | 0.99 |
| Col140 | 22 | 0.00  | 0.99 |
| Col140 | 23 | 0.00  | 0.99 |
| Col140 | 24 | 0.00  | 0.99 |
| Col140 | 25 | 0.00  | 0.99 |
| Col140 | 26 | 0.00  | 0.99 |
| Col140 | 27 | 0.00  | 0.99 |
| Col140 | 28 | 0.00  | 0.99 |
| Col140 | 29 | 0.00  | 0.99 |
| Col140 | 30 | 0.00  | 0.99 |
| Col140 | 31 | 0.00  | 0.99 |
| Col140 | 32 | 0.00  | 0.99 |
| Col140 | 33 | 0.00  | 0.99 |
| Col140 | 34 | 0.00  | 0.99 |
| Col140 | 35 | 0.00  | 0.99 |
| Col140 | 36 | 0.00  | 0.99 |
| Col140 | 37 | 0.00  | 0.99 |
| Col140 | 38 | 0.00  | 0.99 |
| Col140 | 39 | 0.00  | 0.99 |
| Col140 | 40 | 0.00  | 0.99 |
| Col140 | 41 | 0.00  | 0.99 |
| Col140 | 42 | 0.00  | 0.99 |
| Col140 | 43 | 0.00  | 0.99 |
| Col140 | 44 | 0.00  | 0.99 |
| Col140 | 45 | 0.00  | 0.99 |
| Col140 | 46 | 0.00  | 0.99 |
| Col140 | 47 | 0.00  | 0.99 |
| Col140 | 48 | 0.00  | 0.99 |
| Col141 | 1  | 0.00  | 0.99 |
| Col141 | 2  | 0.00  | 0.99 |
| Col141 | 3  | 0.00  | 0.99 |
| Col141 | 4  | 0.00  | 0.99 |
| Col141 | 5  | 0.00  | 0.99 |
| Col141 | 6  | 0.00  | 0.99 |
| Col141 | 7  | 0.00  | 0.99 |
| Col141 | 8  | -0.45 | 0.99 |
| Col141 | 9  | -0.45 | 0.99 |
| Col141 | 10 | 0.50  | 0.99 |
| Col141 | 11 | 0.50  | 0.99 |

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|-------|----|-------|------|
| Col41 | 12 | 0.50  | 0.99 |
| Col41 | 13 | 0.50  | 0.99 |
| Col41 | 14 | 0.50  | 0.99 |
| Col41 | 15 | 0.50  | 0.99 |
| Col41 | 16 | 0.37  | 0.99 |
| Col41 | 17 | 0.37  | 0.99 |
| Col41 | 18 | 0.37  | 0.99 |
| Col41 | 19 | 0.37  | 0.99 |
| Col41 | 20 | 0.37  | 0.99 |
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| Col41 | 22 | 0.37  | 0.99 |
| Col41 | 23 | 0.37  | 0.99 |
| Col41 | 24 | 0.37  | 0.99 |
| Col41 | 25 | 0.37  | 0.99 |
| Col41 | 26 | 0.37  | 0.99 |
| Col41 | 27 | 0.37  | 0.99 |
| Col41 | 28 | -0.45 | 0.99 |
| Col41 | 29 | -0.45 | 0.99 |
| Col41 | 30 | 0.50  | 0.99 |
| Col41 | 31 | 0.50  | 0.99 |
| Col41 | 32 | 0.50  | 0.99 |
| Col41 | 33 | 0.50  | 0.99 |
| Col41 | 34 | 0.50  | 0.99 |
| Col41 | 35 | 0.50  | 0.99 |
| Col41 | 36 | 0.00  | 0.99 |
| Col41 | 37 | 0.00  | 0.99 |
| Col41 | 38 | 0.00  | 0.99 |
| Col41 | 39 | 0.00  | 0.99 |
| Col41 | 40 | 0.00  | 0.99 |
| Col41 | 41 | 0.00  | 0.99 |
| Col41 | 42 | 0.00  | 0.99 |
| Col41 | 43 | 0.00  | 0.99 |
| Col41 | 44 | 0.00  | 0.99 |
| Col41 | 45 | 0.00  | 0.99 |
| Col41 | 46 | 0.00  | 0.99 |
| Col41 | 47 | 0.22  | 0.99 |
| Col41 | 48 | 0.22  | 0.99 |
| Col42 | 1  | 0.00  | 0.99 |
| Col42 | 2  | 0.00  | 0.99 |
| Col42 | 3  | 0.00  | 0.99 |
| Col42 | 4  | 0.00  | 0.99 |
| Col42 | 5  | 0.00  | 0.99 |
| Col42 | 6  | 0.00  | 0.99 |
| Col42 | 7  | 0.00  | 0.99 |
| Col42 | 8  | -0.45 | 0.99 |
| Col42 | 9  | -0.45 | 0.99 |
| Col42 | 10 | 0.50  | 0.99 |
| Col42 | 11 | 0.50  | 0.99 |
| Col42 | 12 | 0.50  | 0.99 |
| Col42 | 13 | 0.50  | 0.99 |
| Col42 | 14 | 0.50  | 0.99 |
| Col42 | 15 | 0.50  | 0.99 |
| Col42 | 16 | 0.37  | 0.99 |
| Col42 | 17 | 0.37  | 0.99 |
| Col42 | 18 | 0.37  | 0.99 |
| Col42 | 19 | 0.37  | 0.99 |
| Col42 | 20 | 0.37  | 0.99 |
| Col42 | 21 | 0.37  | 0.99 |
| Col42 | 22 | 0.37  | 0.99 |
| Col42 | 23 | 0.37  | 0.99 |
| Col42 | 24 | 0.37  | 0.99 |
| Col42 | 25 | 0.37  | 0.99 |
| Col42 | 26 | 0.37  | 0.99 |
| Col42 | 27 | 0.37  | 0.99 |
| Col42 | 28 | -0.45 | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col42 | 29 | -0.45 | 0.99 |
| Col42 | 30 | 0.50  | 0.99 |
| Col42 | 31 | 0.50  | 0.99 |
| Col42 | 32 | 0.50  | 0.99 |
| Col42 | 33 | 0.50  | 0.99 |
| Col42 | 34 | 0.50  | 0.99 |
| Col42 | 35 | 0.50  | 0.99 |
| Col42 | 36 | 0.00  | 0.99 |
| Col42 | 37 | 0.00  | 0.99 |
| Col42 | 38 | 0.00  | 0.99 |
| Col42 | 39 | 0.00  | 0.99 |
| Col42 | 40 | 0.00  | 0.99 |
| Col42 | 41 | 0.00  | 0.99 |
| Col42 | 42 | 0.00  | 0.99 |
| Col42 | 43 | 0.00  | 0.99 |
| Col42 | 44 | 0.00  | 0.99 |
| Col42 | 45 | 0.00  | 0.99 |
| Col42 | 46 | 0.00  | 0.99 |
| Col42 | 47 | 0.22  | 0.99 |
| Col42 | 48 | 0.22  | 0.99 |
| Col43 | 1  | 0.00  | 0.99 |
| Col43 | 2  | 0.00  | 0.99 |
| Col43 | 3  | 0.00  | 0.99 |
| Col43 | 4  | 0.00  | 0.99 |
| Col43 | 5  | 0.00  | 0.99 |
| Col43 | 6  | 0.00  | 0.99 |
| Col43 | 7  | 0.00  | 0.99 |
| Col43 | 8  | 0.00  | 0.99 |
| Col43 | 9  | 0.00  | 0.99 |
| Col43 | 10 | 0.00  | 0.99 |
| Col43 | 11 | 0.00  | 0.99 |
| Col43 | 12 | 0.00  | 0.99 |
| Col43 | 13 | 0.00  | 0.99 |
| Col43 | 14 | 0.00  | 0.99 |
| Col43 | 15 | 0.00  | 0.99 |
| Col43 | 16 | 0.00  | 0.99 |
| Col43 | 17 | 0.00  | 0.99 |
| Col43 | 18 | 0.00  | 0.99 |
| Col43 | 19 | 0.00  | 0.99 |
| Col43 | 20 | 0.00  | 0.99 |
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| Col43 | 22 | 0.00  | 0.99 |
| Col43 | 23 | 0.00  | 0.99 |
| Col43 | 24 | 0.00  | 0.99 |
| Col43 | 25 | 0.00  | 0.99 |
| Col43 | 26 | 0.00  | 0.99 |
| Col43 | 27 | 0.00  | 0.99 |
| Col43 | 28 | 0.00  | 0.99 |
| Col43 | 29 | 0.00  | 0.99 |
| Col43 | 30 | 0.00  | 0.99 |
| Col43 | 31 | 0.00  | 0.99 |
| Col43 | 32 | 0.00  | 0.99 |
| Col43 | 33 | 0.00  | 0.99 |
| Col43 | 34 | 0.00  | 0.99 |
| Col43 | 35 | 0.00  | 0.99 |
| Col43 | 36 | 0.00  | 0.99 |
| Col43 | 37 | 0.00  | 0.99 |
| Col43 | 38 | 0.00  | 0.99 |
| Col43 | 39 | 0.00  | 0.99 |
| Col43 | 40 | 0.00  | 0.99 |
| Col43 | 41 | 0.00  | 0.99 |
| Col43 | 42 | 0.00  | 0.99 |
| Col43 | 43 | 0.00  | 0.99 |
| Col43 | 44 | 0.00  | 0.99 |
| Col43 | 45 | 0.00  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col43 | 46 | 0.00  | 0.99 |
| Col43 | 47 | 0.00  | 0.99 |
| Col43 | 48 | 0.00  | 0.99 |
| Col44 | 1  | 0.00  | 0.99 |
| Col44 | 2  | 0.00  | 0.99 |
| Col44 | 3  | 0.00  | 0.99 |
| Col44 | 4  | 0.00  | 0.99 |
| Col44 | 5  | 0.00  | 0.99 |
| Col44 | 6  | 0.00  | 0.99 |
| Col44 | 7  | 0.00  | 0.99 |
| Col44 | 8  | -0.45 | 0.99 |
| Col44 | 9  | -0.45 | 0.99 |
| Col44 | 10 | 0.50  | 0.99 |
| Col44 | 11 | 0.50  | 0.99 |
| Col44 | 12 | 0.50  | 0.99 |
| Col44 | 13 | 0.50  | 0.99 |
| Col44 | 14 | 0.50  | 0.99 |
| Col44 | 15 | 0.50  | 0.99 |
| Col44 | 16 | 0.37  | 0.99 |
| Col44 | 17 | 0.37  | 0.99 |
| Col44 | 18 | 0.37  | 0.99 |
| Col44 | 19 | 0.37  | 0.99 |
| Col44 | 20 | 0.37  | 0.99 |
| Col44 | 21 | 0.37  | 0.99 |
| Col44 | 22 | 0.37  | 0.99 |
| Col44 | 23 | 0.37  | 0.99 |
| Col44 | 24 | 0.37  | 0.99 |
| Col44 | 25 | 0.37  | 0.99 |
| Col44 | 26 | 0.37  | 0.99 |
| Col44 | 27 | 0.37  | 0.99 |
| Col44 | 28 | -0.45 | 0.99 |
| Col44 | 29 | -0.45 | 0.99 |
| Col44 | 30 | 0.50  | 0.99 |
| Col44 | 31 | 0.50  | 0.99 |
| Col44 | 32 | 0.50  | 0.99 |
| Col44 | 33 | 0.50  | 0.99 |
| Col44 | 34 | 0.50  | 0.99 |
| Col44 | 35 | 0.50  | 0.99 |
| Col44 | 36 | 0.00  | 0.99 |
| Col44 | 37 | 0.00  | 0.99 |
| Col44 | 38 | 0.00  | 0.99 |
| Col44 | 39 | 0.00  | 0.99 |
| Col44 | 40 | 0.00  | 0.99 |
| Col44 | 41 | 0.00  | 0.99 |
| Col44 | 42 | 0.00  | 0.99 |
| Col44 | 43 | 0.00  | 0.99 |
| Col44 | 44 | 0.00  | 0.99 |
| Col44 | 45 | 0.00  | 0.99 |
| Col44 | 46 | 0.00  | 0.99 |
| Col44 | 47 | 0.22  | 0.99 |
| Col44 | 48 | 0.22  | 0.99 |
| Col45 | 1  | 0.00  | 0.99 |
| Col45 | 2  | 0.00  | 0.99 |
| Col45 | 3  | 0.00  | 0.99 |
| Col45 | 4  | 0.00  | 0.99 |
| Col45 | 5  | 0.00  | 0.99 |
| Col45 | 6  | 0.00  | 0.99 |
| Col45 | 7  | 0.00  | 0.99 |
| Col45 | 8  | -0.45 | 0.99 |
| Col45 | 9  | -0.45 | 0.99 |
| Col45 | 10 | 0.50  | 0.99 |
| Col45 | 11 | 0.50  | 0.99 |
| Col45 | 12 | 0.50  | 0.99 |
| Col45 | 13 | 0.50  | 0.99 |
| Col45 | 14 | 0.50  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col45 | 15 | 0.50  | 0.99 |
| Col45 | 16 | 0.37  | 0.99 |
| Col45 | 17 | 0.37  | 0.99 |
| Col45 | 18 | 0.37  | 0.99 |
| Col45 | 19 | 0.37  | 0.99 |
| Col45 | 20 | 0.37  | 0.99 |
| Col45 | 21 | 0.37  | 0.99 |
| Col45 | 22 | 0.37  | 0.99 |
| Col45 | 23 | 0.37  | 0.99 |
| Col45 | 24 | 0.37  | 0.99 |
| Col45 | 25 | 0.37  | 0.99 |
| Col45 | 26 | 0.37  | 0.99 |
| Col45 | 27 | 0.37  | 0.99 |
| Col45 | 28 | -0.45 | 0.99 |
| Col45 | 29 | -0.45 | 0.99 |
| Col45 | 30 | 0.50  | 0.99 |
| Col45 | 31 | 0.50  | 0.99 |
| Col45 | 32 | 0.50  | 0.99 |
| Col45 | 33 | 0.50  | 0.99 |
| Col45 | 34 | 0.50  | 0.99 |
| Col45 | 35 | 0.50  | 0.99 |
| Col45 | 36 | 0.00  | 0.99 |
| Col45 | 37 | 0.00  | 0.99 |
| Col45 | 38 | 0.00  | 0.99 |
| Col45 | 39 | 0.00  | 0.99 |
| Col45 | 40 | 0.00  | 0.99 |
| Col45 | 41 | 0.00  | 0.99 |
| Col45 | 42 | 0.00  | 0.99 |
| Col45 | 43 | 0.00  | 0.99 |
| Col45 | 44 | 0.00  | 0.99 |
| Col45 | 45 | 0.00  | 0.99 |
| Col45 | 46 | 0.00  | 0.99 |
| Col45 | 47 | 0.22  | 0.99 |
| Col45 | 48 | 0.22  | 0.99 |
| Col46 | 1  | 0.00  | 0.99 |
| Col46 | 2  | 0.00  | 0.99 |
| Col46 | 3  | 0.00  | 0.99 |
| Col46 | 4  | 0.00  | 0.99 |
| Col46 | 5  | 0.00  | 0.99 |
| Col46 | 6  | 0.00  | 0.99 |
| Col46 | 7  | 0.00  | 0.99 |
| Col46 | 8  | 0.00  | 0.99 |
| Col46 | 9  | 0.00  | 0.99 |
| Col46 | 10 | 0.00  | 0.99 |
| Col46 | 11 | 0.00  | 0.99 |
| Col46 | 12 | 0.00  | 0.99 |
| Col46 | 13 | 0.00  | 0.99 |
| Col46 | 14 | 0.00  | 0.99 |
| Col46 | 15 | 0.00  | 0.99 |
| Col46 | 16 | 0.00  | 0.99 |
| Col46 | 17 | 0.00  | 0.99 |
| Col46 | 18 | 0.00  | 0.99 |
| Col46 | 19 | 0.00  | 0.99 |
| Col46 | 20 | 0.00  | 0.99 |
| Col46 | 21 | 0.00  | 0.99 |
| Col46 | 22 | 0.00  | 0.99 |
| Col46 | 23 | 0.00  | 0.99 |
| Col46 | 24 | 0.00  | 0.99 |
| Col46 | 25 | 0.00  | 0.99 |
| Col46 | 26 | 0.00  | 0.99 |
| Col46 | 27 | 0.00  | 0.99 |
| Col46 | 28 | 0.00  | 0.99 |
| Col46 | 29 | 0.00  | 0.99 |
| Col46 | 30 | 0.00  | 0.99 |
| Col46 | 31 | 0.00  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col46 | 32 | 0.00  | 0.99 |
| Col46 | 33 | 0.00  | 0.99 |
| Col46 | 34 | 0.00  | 0.99 |
| Col46 | 35 | 0.00  | 0.99 |
| Col46 | 36 | 0.00  | 0.99 |
| Col46 | 37 | 0.00  | 0.99 |
| Col46 | 38 | 0.00  | 0.99 |
| Col46 | 39 | 0.00  | 0.99 |
| Col46 | 40 | 0.00  | 0.99 |
| Col46 | 41 | 0.00  | 0.99 |
| Col46 | 42 | 0.00  | 0.99 |
| Col46 | 43 | 0.00  | 0.99 |
| Col46 | 44 | 0.00  | 0.99 |
| Col46 | 45 | 0.00  | 0.99 |
| Col46 | 46 | 0.00  | 0.99 |
| Col46 | 47 | 0.00  | 0.99 |
| Col46 | 48 | 0.00  | 0.99 |
| Col47 | 1  | 0.00  | 0.99 |
| Col47 | 2  | 0.00  | 0.99 |
| Col47 | 3  | 0.00  | 0.99 |
| Col47 | 4  | 0.00  | 0.99 |
| Col47 | 5  | 0.00  | 0.99 |
| Col47 | 6  | 0.00  | 0.99 |
| Col47 | 7  | 0.00  | 0.99 |
| Col47 | 8  | -0.45 | 0.99 |
| Col47 | 9  | -0.45 | 0.99 |
| Col47 | 10 | 0.50  | 0.99 |
| Col47 | 11 | 0.50  | 0.99 |
| Col47 | 12 | 0.50  | 0.99 |
| Col47 | 13 | 0.50  | 0.99 |
| Col47 | 14 | 0.50  | 0.99 |
| Col47 | 15 | 0.50  | 0.99 |
| Col47 | 16 | 0.37  | 0.99 |
| Col47 | 17 | 0.37  | 0.99 |
| Col47 | 18 | 0.37  | 0.99 |
| Col47 | 19 | 0.37  | 0.99 |
| Col47 | 20 | 0.37  | 0.99 |
| Col47 | 21 | 0.37  | 0.99 |
| Col47 | 22 | 0.37  | 0.99 |
| Col47 | 23 | 0.37  | 0.99 |
| Col47 | 24 | 0.37  | 0.99 |
| Col47 | 25 | 0.37  | 0.99 |
| Col47 | 26 | 0.37  | 0.99 |
| Col47 | 27 | 0.37  | 0.99 |
| Col47 | 28 | -0.45 | 0.99 |
| Col47 | 29 | -0.45 | 0.99 |
| Col47 | 30 | 0.50  | 0.99 |
| Col47 | 31 | 0.50  | 0.99 |
| Col47 | 32 | 0.50  | 0.99 |
| Col47 | 33 | 0.50  | 0.99 |
| Col47 | 34 | 0.50  | 0.99 |
| Col47 | 35 | 0.50  | 0.99 |
| Col47 | 36 | 0.00  | 0.99 |
| Col47 | 37 | 0.00  | 0.99 |
| Col47 | 38 | 0.00  | 0.99 |
| Col47 | 39 | 0.00  | 0.99 |
| Col47 | 40 | 0.00  | 0.99 |
| Col47 | 41 | 0.00  | 0.99 |
| Col47 | 42 | 0.00  | 0.99 |
| Col47 | 43 | 0.00  | 0.99 |
| Col47 | 44 | 0.00  | 0.99 |
| Col47 | 45 | 0.00  | 0.99 |
| Col47 | 46 | 0.00  | 0.99 |
| Col47 | 47 | 0.22  | 0.99 |
| Col47 | 48 | 0.22  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col48 | 1  | 0.00  | 0.99 |
| Col48 | 2  | 0.00  | 0.99 |
| Col48 | 3  | 0.00  | 0.99 |
| Col48 | 4  | 0.00  | 0.99 |
| Col48 | 5  | 0.00  | 0.99 |
| Col48 | 6  | 0.00  | 0.99 |
| Col48 | 7  | 0.00  | 0.99 |
| Col48 | 8  | -0.45 | 0.99 |
| Col48 | 9  | -0.45 | 0.99 |
| Col48 | 10 | 0.50  | 0.99 |
| Col48 | 11 | 0.50  | 0.99 |
| Col48 | 12 | 0.50  | 0.99 |
| Col48 | 13 | 0.50  | 0.99 |
| Col48 | 14 | 0.50  | 0.99 |
| Col48 | 15 | 0.50  | 0.99 |
| Col48 | 16 | 0.37  | 0.99 |
| Col48 | 17 | 0.37  | 0.99 |
| Col48 | 18 | 0.37  | 0.99 |
| Col48 | 19 | 0.37  | 0.99 |
| Col48 | 20 | 0.37  | 0.99 |
| Col48 | 21 | 0.37  | 0.99 |
| Col48 | 22 | 0.37  | 0.99 |
| Col48 | 23 | 0.37  | 0.99 |
| Col48 | 24 | 0.37  | 0.99 |
| Col48 | 25 | 0.37  | 0.99 |
| Col48 | 26 | 0.37  | 0.99 |
| Col48 | 27 | 0.37  | 0.99 |
| Col48 | 28 | -0.45 | 0.99 |
| Col48 | 29 | -0.45 | 0.99 |
| Col48 | 30 | 0.50  | 0.99 |
| Col48 | 31 | 0.50  | 0.99 |
| Col48 | 32 | 0.50  | 0.99 |
| Col48 | 33 | 0.50  | 0.99 |
| Col48 | 34 | 0.50  | 0.99 |
| Col48 | 35 | 0.50  | 0.99 |
| Col48 | 36 | 0.00  | 0.99 |
| Col48 | 37 | 0.00  | 0.99 |
| Col48 | 38 | 0.00  | 0.99 |
| Col48 | 39 | 0.00  | 0.99 |
| Col48 | 40 | 0.00  | 0.99 |
| Col48 | 41 | 0.00  | 0.99 |
| Col48 | 42 | 0.00  | 0.99 |
| Col48 | 43 | 0.00  | 0.99 |
| Col48 | 44 | 0.00  | 0.99 |
| Col48 | 45 | 0.00  | 0.99 |
| Col48 | 46 | 0.00  | 0.99 |
| Col48 | 47 | 0.22  | 0.99 |
| Col48 | 48 | 0.22  | 0.99 |
| Col49 | 1  | 0.00  | 0.99 |
| Col49 | 2  | 0.00  | 0.99 |
| Col49 | 3  | 0.00  | 0.99 |
| Col49 | 4  | 0.00  | 0.99 |
| Col49 | 5  | 0.00  | 0.99 |
| Col49 | 6  | 0.00  | 0.99 |
| Col49 | 7  | 0.00  | 0.99 |
| Col49 | 8  | 0.00  | 0.99 |
| Col49 | 9  | 0.00  | 0.99 |
| Col49 | 10 | 0.00  | 0.99 |
| Col49 | 11 | 0.00  | 0.99 |
| Col49 | 12 | 0.00  | 0.99 |
| Col49 | 13 | 0.00  | 0.99 |
| Col49 | 14 | 0.00  | 0.99 |
| Col49 | 15 | 0.00  | 0.99 |
| Col49 | 16 | 0.00  | 0.99 |
| Col49 | 17 | 0.00  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col49 | 18 | 0.00  | 0.99 |
| Col49 | 19 | 0.00  | 0.99 |
| Col49 | 20 | 0.00  | 0.99 |
| Col49 | 21 | 0.00  | 0.99 |
| Col49 | 22 | 0.00  | 0.99 |
| Col49 | 23 | 0.00  | 0.99 |
| Col49 | 24 | 0.00  | 0.99 |
| Col49 | 25 | 0.00  | 0.99 |
| Col49 | 26 | 0.00  | 0.99 |
| Col49 | 27 | 0.00  | 0.99 |
| Col49 | 28 | 0.00  | 0.99 |
| Col49 | 29 | 0.00  | 0.99 |
| Col49 | 30 | 0.00  | 0.99 |
| Col49 | 31 | 0.00  | 0.99 |
| Col49 | 32 | 0.00  | 0.99 |
| Col49 | 33 | 0.00  | 0.99 |
| Col49 | 34 | 0.00  | 0.99 |
| Col49 | 35 | 0.00  | 0.99 |
| Col49 | 36 | 0.00  | 0.99 |
| Col49 | 37 | 0.00  | 0.99 |
| Col49 | 38 | 0.00  | 0.99 |
| Col49 | 39 | 0.00  | 0.99 |
| Col49 | 40 | 0.00  | 0.99 |
| Col49 | 41 | 0.00  | 0.99 |
| Col49 | 42 | 0.00  | 0.99 |
| Col49 | 43 | 0.00  | 0.99 |
| Col49 | 44 | 0.00  | 0.99 |
| Col49 | 45 | 0.00  | 0.99 |
| Col49 | 46 | 0.00  | 0.99 |
| Col49 | 47 | 0.00  | 0.99 |
| Col49 | 48 | 0.00  | 0.99 |
| Col50 | 1  | 0.00  | 0.99 |
| Col50 | 2  | 0.00  | 0.99 |
| Col50 | 3  | 0.00  | 0.99 |
| Col50 | 4  | 0.00  | 0.99 |
| Col50 | 5  | 0.00  | 0.99 |
| Col50 | 6  | 0.00  | 0.99 |
| Col50 | 7  | 0.00  | 0.99 |
| Col50 | 8  | -0.45 | 0.99 |
| Col50 | 9  | -0.45 | 0.99 |
| Col50 | 10 | 0.50  | 0.99 |
| Col50 | 11 | 0.50  | 0.99 |
| Col50 | 12 | 0.50  | 0.99 |
| Col50 | 13 | 0.50  | 0.99 |
| Col50 | 14 | 0.50  | 0.99 |
| Col50 | 15 | 0.50  | 0.99 |
| Col50 | 16 | 0.37  | 0.99 |
| Col50 | 17 | 0.37  | 0.99 |
| Col50 | 18 | 0.37  | 0.99 |
| Col50 | 19 | 0.37  | 0.99 |
| Col50 | 20 | 0.37  | 0.99 |
| Col50 | 21 | 0.37  | 0.99 |
| Col50 | 22 | 0.37  | 0.99 |
| Col50 | 23 | 0.37  | 0.99 |
| Col50 | 24 | 0.37  | 0.99 |
| Col50 | 25 | 0.37  | 0.99 |
| Col50 | 26 | 0.37  | 0.99 |
| Col50 | 27 | 0.37  | 0.99 |
| Col50 | 28 | -0.45 | 0.99 |
| Col50 | 29 | -0.45 | 0.99 |
| Col50 | 30 | 0.50  | 0.99 |
| Col50 | 31 | 0.50  | 0.99 |
| Col50 | 32 | 0.50  | 0.99 |
| Col50 | 33 | 0.50  | 0.99 |
| Col50 | 34 | 0.50  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col50 | 35 | 0.50  | 0.99 |
| Col50 | 36 | 0.00  | 0.99 |
| Col50 | 37 | 0.00  | 0.99 |
| Col50 | 38 | 0.00  | 0.99 |
| Col50 | 39 | 0.00  | 0.99 |
| Col50 | 40 | 0.00  | 0.99 |
| Col50 | 41 | 0.00  | 0.99 |
| Col50 | 42 | 0.00  | 0.99 |
| Col50 | 43 | 0.00  | 0.99 |
| Col50 | 44 | 0.00  | 0.99 |
| Col50 | 45 | 0.00  | 0.99 |
| Col50 | 46 | 0.00  | 0.99 |
| Col50 | 47 | 0.22  | 0.99 |
| Col50 | 48 | 0.22  | 0.99 |
| Col51 | 1  | 0.00  | 0.99 |
| Col51 | 2  | 0.00  | 0.99 |
| Col51 | 3  | 0.00  | 0.99 |
| Col51 | 4  | 0.00  | 0.99 |
| Col51 | 5  | 0.00  | 0.99 |
| Col51 | 6  | 0.00  | 0.99 |
| Col51 | 7  | 0.00  | 0.99 |
| Col51 | 8  | -0.45 | 0.99 |
| Col51 | 9  | -0.45 | 0.99 |
| Col51 | 10 | 0.51  | 0.99 |
| Col51 | 11 | 0.51  | 0.99 |
| Col51 | 12 | 0.51  | 0.99 |
| Col51 | 13 | 0.51  | 0.99 |
| Col51 | 14 | 0.51  | 0.99 |
| Col51 | 15 | 0.51  | 0.99 |
| Col51 | 16 | 0.38  | 0.99 |
| Col51 | 17 | 0.38  | 0.99 |
| Col51 | 18 | 0.38  | 0.99 |
| Col51 | 19 | 0.38  | 0.99 |
| Col51 | 20 | 0.38  | 0.99 |
| Col51 | 21 | 0.38  | 0.99 |
| Col51 | 22 | 0.38  | 0.99 |
| Col51 | 23 | 0.38  | 0.99 |
| Col51 | 24 | 0.38  | 0.99 |
| Col51 | 25 | 0.38  | 0.99 |
| Col51 | 26 | 0.38  | 0.99 |
| Col51 | 27 | 0.38  | 0.99 |
| Col51 | 28 | -0.45 | 0.99 |
| Col51 | 29 | -0.45 | 0.99 |
| Col51 | 30 | 0.51  | 0.99 |
| Col51 | 31 | 0.51  | 0.99 |
| Col51 | 32 | 0.51  | 0.99 |
| Col51 | 33 | 0.51  | 0.99 |
| Col51 | 34 | 0.51  | 0.99 |
| Col51 | 35 | 0.51  | 0.99 |
| Col51 | 36 | 0.00  | 0.99 |
| Col51 | 37 | 0.00  | 0.99 |
| Col51 | 38 | 0.00  | 0.99 |
| Col51 | 39 | 0.00  | 0.99 |
| Col51 | 40 | 0.00  | 0.99 |
| Col51 | 41 | 0.00  | 0.99 |
| Col51 | 42 | 0.00  | 0.99 |
| Col51 | 43 | 0.00  | 0.99 |
| Col51 | 44 | 0.00  | 0.99 |
| Col51 | 45 | 0.00  | 0.99 |
| Col51 | 46 | 0.00  | 0.99 |
| Col51 | 47 | 0.23  | 0.99 |
| Col51 | 48 | 0.23  | 0.99 |
| Col52 | 1  | 0.00  | 0.99 |
| Col52 | 2  | 0.00  | 0.99 |
| Col52 | 3  | 0.00  | 0.99 |

|       |    |       |      |
|-------|----|-------|------|
| Col52 | 4  | 0.00  | 0.99 |
| Col52 | 5  | 0.00  | 0.99 |
| Col52 | 6  | 0.00  | 0.99 |
| Col52 | 7  | 0.00  | 0.99 |
| Col52 | 8  | -0.23 | 0.99 |
| Col52 | 9  | -0.23 | 0.99 |
| Col52 | 10 | 0.27  | 0.99 |
| Col52 | 11 | 0.27  | 0.99 |
| Col52 | 12 | 0.27  | 0.99 |
| Col52 | 13 | 0.27  | 0.99 |
| Col52 | 14 | 0.27  | 0.99 |
| Col52 | 15 | 0.27  | 0.99 |
| Col52 | 16 | 0.20  | 0.99 |
| Col52 | 17 | 0.20  | 0.99 |
| Col52 | 18 | 0.20  | 0.99 |
| Col52 | 19 | 0.20  | 0.99 |
| Col52 | 20 | 0.20  | 0.99 |
| Col52 | 21 | 0.20  | 0.99 |
| Col52 | 22 | 0.20  | 0.99 |
| Col52 | 23 | 0.20  | 0.99 |
| Col52 | 24 | 0.20  | 0.99 |
| Col52 | 25 | 0.20  | 0.99 |
| Col52 | 26 | 0.20  | 0.99 |
| Col52 | 27 | 0.20  | 0.99 |
| Col52 | 28 | -0.23 | 0.99 |
| Col52 | 29 | -0.23 | 0.99 |
| Col52 | 30 | 0.27  | 0.99 |
| Col52 | 31 | 0.27  | 0.99 |
| Col52 | 32 | 0.27  | 0.99 |
| Col52 | 33 | 0.27  | 0.99 |
| Col52 | 34 | 0.27  | 0.99 |
| Col52 | 35 | 0.27  | 0.99 |
| Col52 | 36 | 0.00  | 0.99 |
| Col52 | 37 | 0.00  | 0.99 |
| Col52 | 38 | 0.00  | 0.99 |
| Col52 | 39 | 0.00  | 0.99 |
| Col52 | 40 | 0.00  | 0.99 |
| Col52 | 41 | 0.00  | 0.99 |
| Col52 | 42 | 0.00  | 0.99 |
| Col52 | 43 | 0.00  | 0.99 |
| Col52 | 44 | 0.00  | 0.99 |
| Col52 | 45 | 0.00  | 0.99 |
| Col52 | 46 | 0.00  | 0.99 |
| Col52 | 47 | 0.12  | 0.99 |
| Col52 | 48 | 0.12  | 0.99 |

RAFTER DEFLECTIONS:

| Id    | Load | Deflection(in) |       |
|-------|------|----------------|-------|
|       | Id   | Calc           | Limit |
| ----- | ---- | -----          | ----- |
| Raf5  | 1    | 0.00           | 0.31  |
| Raf5  | 2    | 0.00           | 0.31  |
| Raf5  | 3    | 0.00           | 0.31  |
| Raf5  | 4    | 0.00           | 0.31  |
| Raf5  | 5    | 0.00           | 0.31  |
| Raf5  | 6    | 0.00           | 0.31  |
| Raf5  | 7    | 0.00           | 0.31  |
| Raf5  | 8    | 0.00           | 0.31  |
| Raf5  | 9    | 0.00           | 0.31  |
| Raf5  | 10   | 0.00           | 0.31  |
| Raf5  | 11   | 0.00           | 0.31  |
| Raf5  | 12   | 0.00           | 0.31  |
| Raf5  | 13   | 0.00           | 0.31  |
| Raf5  | 14   | 0.00           | 0.31  |

|      |    |      |      |
|------|----|------|------|
| Raf5 | 15 | 0.00 | 0.31 |
| Raf5 | 16 | 0.00 | 0.31 |
| Raf5 | 17 | 0.00 | 0.31 |
| Raf5 | 18 | 0.00 | 0.31 |
| Raf5 | 19 | 0.00 | 0.31 |
| Raf5 | 20 | 0.00 | 0.31 |
| Raf5 | 21 | 0.00 | 0.31 |
| Raf5 | 22 | 0.00 | 0.31 |
| Raf5 | 23 | 0.00 | 0.31 |
| Raf5 | 24 | 0.00 | 0.31 |
| Raf5 | 25 | 0.00 | 0.31 |
| Raf5 | 26 | 0.00 | 0.31 |
| Raf5 | 27 | 0.00 | 0.31 |
| Raf5 | 28 | 0.00 | 0.31 |
| Raf5 | 29 | 0.00 | 0.31 |
| Raf5 | 30 | 0.00 | 0.31 |
| Raf5 | 31 | 0.00 | 0.31 |
| Raf5 | 32 | 0.00 | 0.31 |
| Raf5 | 33 | 0.00 | 0.31 |
| Raf5 | 34 | 0.00 | 0.31 |
| Raf5 | 35 | 0.00 | 0.31 |
| Raf5 | 36 | 0.00 | 0.31 |
| Raf5 | 37 | 0.00 | 0.31 |
| Raf5 | 38 | 0.00 | 0.31 |
| Raf5 | 39 | 0.00 | 0.31 |
| Raf5 | 40 | 0.00 | 0.31 |
| Raf5 | 41 | 0.00 | 0.31 |
| Raf5 | 42 | 0.00 | 0.31 |
| Raf5 | 43 | 0.00 | 0.31 |
| Raf5 | 44 | 0.00 | 0.31 |
| Raf5 | 45 | 0.00 | 0.31 |
| Raf5 | 46 | 0.00 | 0.31 |
| Raf5 | 47 | 0.00 | 0.31 |
| Raf5 | 48 | 0.00 | 0.31 |
| Raf6 | 1  | 0.00 | 0.31 |
| Raf6 | 2  | 0.00 | 0.31 |
| Raf6 | 3  | 0.00 | 0.31 |
| Raf6 | 4  | 0.00 | 0.31 |
| Raf6 | 5  | 0.00 | 0.31 |
| Raf6 | 6  | 0.00 | 0.31 |
| Raf6 | 7  | 0.00 | 0.31 |
| Raf6 | 8  | 0.00 | 0.31 |
| Raf6 | 9  | 0.00 | 0.31 |
| Raf6 | 10 | 0.00 | 0.31 |
| Raf6 | 11 | 0.00 | 0.31 |
| Raf6 | 12 | 0.00 | 0.31 |
| Raf6 | 13 | 0.00 | 0.31 |
| Raf6 | 14 | 0.00 | 0.31 |
| Raf6 | 15 | 0.00 | 0.31 |
| Raf6 | 16 | 0.00 | 0.31 |
| Raf6 | 17 | 0.00 | 0.31 |
| Raf6 | 18 | 0.00 | 0.31 |
| Raf6 | 19 | 0.00 | 0.31 |
| Raf6 | 20 | 0.00 | 0.31 |
| Raf6 | 21 | 0.00 | 0.31 |
| Raf6 | 22 | 0.00 | 0.31 |
| Raf6 | 23 | 0.00 | 0.31 |
| Raf6 | 24 | 0.00 | 0.31 |
| Raf6 | 25 | 0.00 | 0.31 |
| Raf6 | 26 | 0.00 | 0.31 |
| Raf6 | 27 | 0.00 | 0.31 |
| Raf6 | 28 | 0.00 | 0.31 |
| Raf6 | 29 | 0.00 | 0.31 |
| Raf6 | 30 | 0.00 | 0.31 |
| Raf6 | 31 | 0.00 | 0.31 |

|      |    |      |      |
|------|----|------|------|
| Raf6 | 32 | 0.00 | 0.31 |
| Raf6 | 33 | 0.00 | 0.31 |
| Raf6 | 34 | 0.00 | 0.31 |
| Raf6 | 35 | 0.00 | 0.31 |
| Raf6 | 36 | 0.00 | 0.31 |
| Raf6 | 37 | 0.00 | 0.31 |
| Raf6 | 38 | 0.00 | 0.31 |
| Raf6 | 39 | 0.00 | 0.31 |
| Raf6 | 40 | 0.00 | 0.31 |
| Raf6 | 41 | 0.00 | 0.31 |
| Raf6 | 42 | 0.00 | 0.31 |
| Raf6 | 43 | 0.00 | 0.31 |
| Raf6 | 44 | 0.00 | 0.31 |
| Raf6 | 45 | 0.00 | 0.31 |
| Raf6 | 46 | 0.00 | 0.31 |
| Raf6 | 47 | 0.00 | 0.31 |
| Raf6 | 48 | 0.00 | 0.31 |
| Raf7 | 1  | 0.00 | 0.31 |
| Raf7 | 2  | 0.00 | 0.31 |
| Raf7 | 3  | 0.00 | 0.31 |
| Raf7 | 4  | 0.00 | 0.31 |
| Raf7 | 5  | 0.00 | 0.31 |
| Raf7 | 6  | 0.00 | 0.31 |
| Raf7 | 7  | 0.00 | 0.31 |
| Raf7 | 8  | 0.00 | 0.31 |
| Raf7 | 9  | 0.00 | 0.31 |
| Raf7 | 10 | 0.00 | 0.31 |
| Raf7 | 11 | 0.00 | 0.31 |
| Raf7 | 12 | 0.00 | 0.31 |
| Raf7 | 13 | 0.00 | 0.31 |
| Raf7 | 14 | 0.00 | 0.31 |
| Raf7 | 15 | 0.00 | 0.31 |
| Raf7 | 16 | 0.00 | 0.31 |
| Raf7 | 17 | 0.00 | 0.31 |
| Raf7 | 18 | 0.00 | 0.31 |
| Raf7 | 19 | 0.00 | 0.31 |
| Raf7 | 20 | 0.00 | 0.31 |
| Raf7 | 21 | 0.00 | 0.31 |
| Raf7 | 22 | 0.00 | 0.31 |
| Raf7 | 23 | 0.00 | 0.31 |
| Raf7 | 24 | 0.00 | 0.31 |
| Raf7 | 25 | 0.00 | 0.31 |
| Raf7 | 26 | 0.00 | 0.31 |
| Raf7 | 27 | 0.00 | 0.31 |
| Raf7 | 28 | 0.00 | 0.31 |
| Raf7 | 29 | 0.00 | 0.31 |
| Raf7 | 30 | 0.00 | 0.31 |
| Raf7 | 31 | 0.00 | 0.31 |
| Raf7 | 32 | 0.00 | 0.31 |
| Raf7 | 33 | 0.00 | 0.31 |
| Raf7 | 34 | 0.00 | 0.31 |
| Raf7 | 35 | 0.00 | 0.31 |
| Raf7 | 36 | 0.00 | 0.31 |
| Raf7 | 37 | 0.00 | 0.31 |
| Raf7 | 38 | 0.00 | 0.31 |
| Raf7 | 39 | 0.00 | 0.31 |
| Raf7 | 40 | 0.00 | 0.31 |
| Raf7 | 41 | 0.00 | 0.31 |
| Raf7 | 42 | 0.00 | 0.31 |
| Raf7 | 43 | 0.00 | 0.31 |
| Raf7 | 44 | 0.00 | 0.31 |
| Raf7 | 45 | 0.00 | 0.31 |
| Raf7 | 46 | 0.00 | 0.31 |
| Raf7 | 47 | 0.00 | 0.31 |
| Raf7 | 48 | 0.00 | 0.31 |

|      |    |      |      |
|------|----|------|------|
| Raf8 | 1  | 0.00 | 0.31 |
| Raf8 | 2  | 0.00 | 0.31 |
| Raf8 | 3  | 0.00 | 0.31 |
| Raf8 | 4  | 0.00 | 0.31 |
| Raf8 | 5  | 0.00 | 0.31 |
| Raf8 | 6  | 0.00 | 0.31 |
| Raf8 | 7  | 0.00 | 0.31 |
| Raf8 | 8  | 0.00 | 0.31 |
| Raf8 | 9  | 0.00 | 0.31 |
| Raf8 | 10 | 0.00 | 0.31 |
| Raf8 | 11 | 0.00 | 0.31 |
| Raf8 | 12 | 0.00 | 0.31 |
| Raf8 | 13 | 0.00 | 0.31 |
| Raf8 | 14 | 0.00 | 0.31 |
| Raf8 | 15 | 0.00 | 0.31 |
| Raf8 | 16 | 0.00 | 0.31 |
| Raf8 | 17 | 0.00 | 0.31 |
| Raf8 | 18 | 0.00 | 0.31 |
| Raf8 | 19 | 0.00 | 0.31 |
| Raf8 | 20 | 0.00 | 0.31 |
| Raf8 | 21 | 0.00 | 0.31 |
| Raf8 | 22 | 0.00 | 0.31 |
| Raf8 | 23 | 0.00 | 0.31 |
| Raf8 | 24 | 0.00 | 0.31 |
| Raf8 | 25 | 0.00 | 0.31 |
| Raf8 | 26 | 0.00 | 0.31 |
| Raf8 | 27 | 0.00 | 0.31 |
| Raf8 | 28 | 0.00 | 0.31 |
| Raf8 | 29 | 0.00 | 0.31 |
| Raf8 | 30 | 0.00 | 0.31 |
| Raf8 | 31 | 0.00 | 0.31 |
| Raf8 | 32 | 0.00 | 0.31 |
| Raf8 | 33 | 0.00 | 0.31 |
| Raf8 | 34 | 0.00 | 0.31 |
| Raf8 | 35 | 0.00 | 0.31 |
| Raf8 | 36 | 0.00 | 0.31 |
| Raf8 | 37 | 0.00 | 0.31 |
| Raf8 | 38 | 0.00 | 0.31 |
| Raf8 | 39 | 0.00 | 0.31 |
| Raf8 | 40 | 0.00 | 0.31 |
| Raf8 | 41 | 0.00 | 0.31 |
| Raf8 | 42 | 0.00 | 0.31 |
| Raf8 | 43 | 0.00 | 0.31 |
| Raf8 | 44 | 0.00 | 0.31 |
| Raf8 | 45 | 0.00 | 0.31 |
| Raf8 | 46 | 0.00 | 0.31 |
| Raf8 | 47 | 0.00 | 0.31 |
| Raf8 | 48 | 0.00 | 0.31 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id    | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|-------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|       |               | Bend           | Axial | Major        | Minor | Out                              | In   |
|       |               |                |       |              |       |                                  |      |
| Col28 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col29 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col30 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col31 | 0.1           | 3.8            | 3.8   | 1            | 61    | 0.00                             | 0.00 |
| Col32 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col33 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col34 | 0.1           | 3.8            | 3.8   | 1            | 61    | 0.00                             | 0.00 |
| Col35 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col36 | 14.8          | 3.8            | 3.8   | 77           | 61    | 0.00                             | 0.00 |
| Col37 | 0.1           | 3.8            | 3.8   | 1            | 61    | 0.00                             | 0.00 |

|        |      |     |     |    |    |      |      |
|--------|------|-----|-----|----|----|------|------|
| Col138 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col139 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col140 | 0.1  | 3.8 | 3.8 | 1  | 61 | 0.00 | 0.00 |
| Col141 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col142 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col143 | 0.1  | 3.8 | 3.8 | 1  | 61 | 0.00 | 0.00 |
| Col144 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col145 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col146 | 0.1  | 3.8 | 3.8 | 1  | 61 | 0.00 | 0.00 |
| Col147 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col148 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col149 | 0.1  | 3.8 | 3.8 | 1  | 61 | 0.00 | 0.00 |
| Col150 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col151 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |
| Col152 | 14.8 | 3.8 | 3.8 | 77 | 61 | 0.00 | 0.00 |

GIRT LAYOUT:

| Bay Id | Girt Id | Locate | Part   | Design Length | Available Reduction Factor |      |
|--------|---------|--------|--------|---------------|----------------------------|------|
|        |         |        |        |               | Out                        | In   |
| 1      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 2      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 3      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 4      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 5      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 6      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 7      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 8      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 9      | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 10     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 11     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 12     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 13     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 14     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 15     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 16     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 17     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 18     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 2       | 7.333  | 6X2C16 | 4.167         | 0.00                       | 0.70 |
|        | 3       | 11.000 | 6X2C16 | 4.167         | 0.00                       | 0.70 |
| 19     | 1       | 3.667  | 6X2C16 | 4.167         | 0.00                       | 0.70 |

|    |   |        |        |       |      |      |
|----|---|--------|--------|-------|------|------|
| 20 | 2 | 7.333  | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 3 | 11.000 | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 1 | 3.667  | 6X2C16 | 4.167 | 0.00 | 0.70 |
| 21 | 2 | 7.333  | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 3 | 11.000 | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 1 | 3.667  | 6X2C16 | 4.167 | 0.00 | 0.70 |
| 22 | 2 | 7.333  | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 3 | 11.000 | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 1 | 3.667  | 6X2C16 | 4.167 | 0.00 | 0.70 |
| 23 | 2 | 7.333  | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 3 | 11.000 | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 1 | 3.667  | 6X2C16 | 4.167 | 0.00 | 0.70 |
| 24 | 2 | 7.333  | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 3 | 11.000 | 6X2C16 | 4.167 | 0.00 | 0.70 |
|    | 1 | 3.667  | 6X2C16 | 4.292 | 0.00 | 0.70 |
|    | 2 | 7.333  | 6X2C16 | 4.292 | 0.00 | 0.70 |
|    | 3 | 11.000 | 6X2C16 | 4.292 | 0.00 | 0.70 |

GIRT ACTIONS:

| Bay Id | Girt Id | Load | -Shear(k )- |       | Moment(f-k ) |       | Max UC | Deflect(in) |       |
|--------|---------|------|-------------|-------|--------------|-------|--------|-------------|-------|
|        |         |      | Calc        | Limit | Calc         | Limit |        | Calc        | Limit |
| 1      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.04   | 0.00        | 0.56  |
| 2      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 3      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 4      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 5      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 6      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 7      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 8      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 9      | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 10     | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 11     | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.08        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
|        | 3       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |
|        |         | WS   | 0.09        | 3.32  | 0.09         | 2.65  | 0.03   | 0.00        | 0.56  |
| 12     | 1       | WP   | -0.08       | 3.32  | -0.08        | 2.65  | 0.03   | 0.00        | 0.56  |



PANEL DATA:

| Bay  | Part    | Type | Gage  | Yield |
|------|---------|------|-------|-------|
| ---- | -----   | ---- | ----- | ----- |
| 1    | CUSPANL | CP   | 20.00 | 50.0  |

MOMENTS & DEFLECTION:

| -----Moment (ft-lb/ft)----- |             |       |      |       |       |         |       |       |       |       |              |       |
|-----------------------------|-------------|-------|------|-------|-------|---------|-------|-------|-------|-------|--------------|-------|
| Span                        | Locate (ft) |       | Load | Start |       | Midspan |       | End   |       | Max   | Deflect (in) |       |
| Id                          | Start       | End   |      | Calc  | Limit | Calc    | Limit | Calc  | Limit | UC    | Calc         | Limit |
| ----                        | -----       | ----- | ---- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----        | ----- |
| 1                           | 0.00        | 3.67  | WP   | 0.0   | 49.1  | -12.7   | 49.1  | 17.8  | 38.1  | 0.47  | -0.11        | 0.73  |
|                             |             |       | WS   | 0.0   | 38.1  | 17.0    | 38.1  | -23.7 | 49.1  | 0.48  | 0.14         | 0.73  |
| 2                           | 3.67        | 7.33  | WP   | 17.8  | 38.1  | -6.1    | 49.1  | 11.6  | 38.1  | 0.47  | -0.03        | 0.73  |
|                             |             |       | WS   | -23.7 | 49.1  | 8.1     | 38.1  | -15.4 | 49.1  | 0.48  | 0.04         | 0.73  |
| 3                           | 7.33        | 11.00 | WP   | 11.6  | 38.1  | -5.7    | 49.1  | 18.6  | 38.1  | 0.49  | -0.03        | 0.73  |
|                             |             |       | WS   | -15.4 | 49.1  | 7.7     | 38.1  | -24.7 | 49.1  | 0.50  | 0.04         | 0.73  |
| 4                           | 11.00       | 14.79 | WP   | 18.6  | 38.1  | -13.8   | 49.1  | 0.0   | 38.1  | 0.49  | -0.13        | 0.76  |
|                             |             |       | WS   | -24.7 | 49.1  | 18.4    | 38.1  | 0.0   | 38.1  | 0.50  | 0.17         | 0.76  |

WP - Wind\_Pressure  
 WS - Wind\_Suction

PANEL:

| Part    | Thick<br>(in) | Yield<br>(ksi ) | Tensile<br>Strength<br>(ksi ) |
|---------|---------------|-----------------|-------------------------------|
| CUSPANL | 0.038         | 50.00           | 65.00                         |

GIRT SCREWS:

| Part | Dia<br>(in) | Washer<br>(in) | Limit<br>(k ) |
|------|-------------|----------------|---------------|
| #29  | 0.21        | 0.50           | 2.90          |

PANEL ZONE LAYOUT:

| Zone |             | ----Wall (ft)---- |         | Bay |        | --Girt (ft,ft,in)-- |       |       | Panel |
|------|-------------|-------------------|---------|-----|--------|---------------------|-------|-------|-------|
| Id   | Description | Offset1           | Offset2 | Id  | Locate | Load                | Min   | Thick | Span  |
|      |             |                   |         |     |        | Width               |       |       | (ft)  |
| 1    | Interior    | 4.00              | 108.00  | 1   | 11.00  | 3.73                | 0.059 |       | 3.79  |
| 2    | Lt Edge     | 0.00              | 4.00    | 1   | 11.00  | 3.73                | 0.059 |       | 3.79  |
| 3    | Rt Edge     | 108.00            | 112.00  | 24  | 11.00  | 3.73                | 0.059 |       | 3.79  |

GIRT SCREW CHECK:

| Zone |       | Wind    | -----Limit(k )----- |         |          |         |      |  |
|------|-------|---------|---------------------|---------|----------|---------|------|--|
| Id   | Screw | Suction | Load                | Girt    | Panel    | Screw   | Max  |  |
|      | Space | (psf )  | (k )                | Pullout | Pullover | Tension | UC   |  |
| 1    | 1.00  | 16.38   | 0.06                | 0.22    | 0.61     | 0.77    | 0.28 |  |
| 2    | 1.00  | 16.38   | 0.06                | 0.22    | 0.61     | 0.77    | 0.28 |  |
| 3    | 1.00  | 16.38   | 0.06                | 0.22    | 0.61     | 0.77    | 0.28 |  |

WALL LAYOUT:

| Wall Id | Orn | LeftEW Offset | BackSW Offset | Wall Length | Load Width |
|---------|-----|---------------|---------------|-------------|------------|
| 6       | T   | 14.00         | 0.00          | 40.00       | 14.00      |

MEMBER LAYOUT:

| Id     | Locate |        | ---Web(in)-- |       | -Flange(in)- |       | Length (ft) | Weight (lb) | ----Max_Load---- |      |         |
|--------|--------|--------|--------------|-------|--------------|-------|-------------|-------------|------------------|------|---------|
|        | (ft)   | Part   | Depth        | Thick | Width        | Thick |             |             | Id               | UC   | Report  |
| Col154 | 5.0    | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.0        | 32.9        | 17               | 0.33 | Mom+Axl |
| Col155 | 10.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.3        | 33.4        | 17               | 0.33 | Mom+Axl |
| Col156 | 15.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.5        | 33.9        | 17               | 0.34 | Mom+Axl |
| Col157 | 20.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.7        | 34.3        | 8                | 0.35 | Deflect |
| Col158 | 25.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 15.9        | 34.8        | 8                | 0.37 | Deflect |
| Col159 | 30.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.1        | 35.2        | 8                | 0.38 | Deflect |
| Col160 | 35.0   | 6X2C16 | 6.00         | 16ga  | 2.00         | 16ga  | 16.3        | 35.7        | 8                | 0.40 | Deflect |
| Total= |        |        |              |       |              |       |             | 240.2       |                  |      |         |

DESIGN ACTIONS/STRENGTH:

| Id     | Load Id | -Axial(k )- |       | -Shear(k )- |       | Moment(f-k ) |       | -----Unity_Check----- |       |               |               |
|--------|---------|-------------|-------|-------------|-------|--------------|-------|-----------------------|-------|---------------|---------------|
|        |         | Calc        | Limit | Calc        | Limit | Calc         | Limit | Axial                 | Shear | Axial+ Moment | Shear+ Moment |
| Col154 | 1       | 1.62        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.18                  | 0.00  | 0.18          | 0.00          |
| Col154 | 2       | 0.22        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.02                  | 0.00  | 0.02          | 0.00          |
| Col154 | 3       | 1.16        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.13                  | 0.00  | 0.13          | 0.00          |
| Col154 | 4       | 1.16        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.13                  | 0.00  | 0.13          | 0.00          |
| Col154 | 5       | 1.27        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.14                  | 0.00  | 0.14          | 0.00          |
| Col154 | 6       | 0.92        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.10                  | 0.00  | 0.10          | 0.00          |
| Col154 | 7       | 0.92        | 9.20  | 0.00        | 3.32  | 0.00         | 3.07  | 0.10                  | 0.00  | 0.10          | 0.00          |
| Col154 | 8       | -0.67       | 21.18 | 0.23        | 3.32  | -0.85        | 3.07  | 0.03                  | 0.07  | 0.24          | 0.00          |
| Col154 | 9       | -0.32       | 21.18 | 0.23        | 3.32  | -0.85        | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 10      | -0.67       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.03                  | 0.07  | 0.24          | 0.00          |
| Col154 | 11      | -0.32       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 12      | -0.67       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.03                  | 0.07  | 0.24          | 0.00          |
| Col154 | 13      | -0.32       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 14      | -0.38       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 15      | -0.03       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.00                  | 0.07  | 0.27          | 0.00          |
| Col154 | 16      | 0.85        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.09                  | 0.05  | 0.30          | 0.00          |
| Col154 | 17      | 1.11        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.12                  | 0.05  | 0.33          | 0.00          |
| Col154 | 18      | 0.63        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.07                  | 0.05  | 0.28          | 0.00          |
| Col154 | 19      | 0.89        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.10                  | 0.05  | 0.30          | 0.00          |
| Col154 | 20      | 0.50        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.05                  | 0.05  | 0.26          | 0.00          |
| Col154 | 21      | 0.76        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.08                  | 0.05  | 0.29          | 0.00          |
| Col154 | 22      | 0.29        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.03                  | 0.05  | 0.24          | 0.00          |
| Col154 | 23      | 0.54        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.06                  | 0.05  | 0.27          | 0.00          |
| Col154 | 24      | 0.50        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.05                  | 0.05  | 0.26          | 0.00          |
| Col154 | 25      | 0.76        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.08                  | 0.05  | 0.29          | 0.00          |
| Col154 | 26      | 0.29        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.03                  | 0.05  | 0.24          | 0.00          |
| Col154 | 27      | 0.54        | 9.20  | -0.17       | 3.32  | 0.64         | 3.07  | 0.06                  | 0.05  | 0.27          | 0.00          |
| Col154 | 28      | -0.72       | 21.18 | 0.23        | 3.32  | -0.85        | 3.07  | 0.03                  | 0.07  | 0.24          | 0.00          |
| Col154 | 29      | -0.38       | 21.18 | 0.23        | 3.32  | -0.85        | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 30      | -0.72       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.03                  | 0.07  | 0.24          | 0.00          |
| Col154 | 31      | -0.38       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 32      | -0.72       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.03                  | 0.07  | 0.24          | 0.00          |
| Col154 | 33      | -0.38       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |
| Col154 | 34      | -0.43       | 21.18 | -0.23       | 3.32  | 0.85         | 3.07  | 0.02                  | 0.07  | 0.26          | 0.00          |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col154 | 35 | -0.09 | 21.18 | -0.23 | 3.32 | 0.85  | 3.07 | 0.00 | 0.07 | 0.27 | 0.00 |
| Col154 | 36 | 0.22  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col154 | 37 | 0.22  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col154 | 38 | 1.27  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col154 | 39 | 1.27  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col154 | 40 | 0.92  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col154 | 41 | 0.92  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col154 | 42 | 0.92  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col154 | 43 | 0.92  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col154 | 44 | 0.12  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 45 | 0.12  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 46 | 1.34  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col154 | 47 | 0.64  | 9.20  | -0.17 | 3.32 | 0.64  | 3.07 | 0.07 | 0.05 | 0.28 | 0.00 |
| Col154 | 48 | 0.90  | 9.20  | -0.17 | 3.32 | 0.64  | 3.07 | 0.10 | 0.05 | 0.30 | 0.00 |
| Col154 | 49 | 0.22  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col154 | 50 | 0.22  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col154 | 51 | 0.13  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col154 | 52 | 0.13  | 9.20  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 1  | 1.62  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.18 | 0.00 | 0.18 | 0.00 |
| Col155 | 2  | 0.22  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col155 | 3  | 1.16  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col155 | 4  | 1.16  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col155 | 5  | 1.27  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col155 | 6  | 0.92  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col155 | 7  | 0.92  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col155 | 8  | -0.66 | 21.18 | 0.23  | 3.32 | -0.87 | 3.07 | 0.03 | 0.07 | 0.25 | 0.00 |
| Col155 | 9  | -0.32 | 21.18 | 0.23  | 3.32 | -0.87 | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 10 | -0.66 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.03 | 0.07 | 0.25 | 0.00 |
| Col155 | 11 | -0.32 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 12 | -0.66 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.03 | 0.07 | 0.25 | 0.00 |
| Col155 | 13 | -0.32 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 14 | -0.38 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 15 | -0.03 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.00 | 0.07 | 0.28 | 0.00 |
| Col155 | 16 | 0.85  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.09 | 0.05 | 0.31 | 0.00 |
| Col155 | 17 | 1.11  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.12 | 0.05 | 0.33 | 0.00 |
| Col155 | 18 | 0.63  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.07 | 0.05 | 0.28 | 0.00 |
| Col155 | 19 | 0.89  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.10 | 0.05 | 0.31 | 0.00 |
| Col155 | 20 | 0.50  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.06 | 0.05 | 0.27 | 0.00 |
| Col155 | 21 | 0.76  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.08 | 0.05 | 0.30 | 0.00 |
| Col155 | 22 | 0.29  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.03 | 0.05 | 0.24 | 0.00 |
| Col155 | 23 | 0.54  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.06 | 0.05 | 0.27 | 0.00 |
| Col155 | 24 | 0.50  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.06 | 0.05 | 0.27 | 0.00 |
| Col155 | 25 | 0.76  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.08 | 0.05 | 0.30 | 0.00 |
| Col155 | 26 | 0.29  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.03 | 0.05 | 0.24 | 0.00 |
| Col155 | 27 | 0.54  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.06 | 0.05 | 0.27 | 0.00 |
| Col155 | 28 | -0.72 | 21.18 | 0.23  | 3.32 | -0.87 | 3.07 | 0.03 | 0.07 | 0.25 | 0.00 |
| Col155 | 29 | -0.38 | 21.18 | 0.23  | 3.32 | -0.87 | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 30 | -0.72 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.03 | 0.07 | 0.25 | 0.00 |
| Col155 | 31 | -0.38 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 32 | -0.72 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.03 | 0.07 | 0.25 | 0.00 |
| Col155 | 33 | -0.38 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col155 | 34 | -0.43 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.02 | 0.07 | 0.26 | 0.00 |
| Col155 | 35 | -0.09 | 21.18 | -0.23 | 3.32 | 0.87  | 3.07 | 0.00 | 0.07 | 0.28 | 0.00 |
| Col155 | 36 | 0.22  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col155 | 37 | 0.22  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col155 | 38 | 1.27  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col155 | 39 | 1.27  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col155 | 40 | 0.92  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col155 | 41 | 0.92  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col155 | 42 | 0.92  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col155 | 43 | 0.92  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col155 | 44 | 0.12  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 45 | 0.12  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 46 | 1.34  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col155 | 47 | 0.64  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.07 | 0.05 | 0.28 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col155 | 48 | 0.90  | 9.10  | -0.17 | 3.32 | 0.65  | 3.07 | 0.10 | 0.05 | 0.31 | 0.00 |
| Col155 | 49 | 0.22  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col155 | 50 | 0.22  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col155 | 51 | 0.13  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col155 | 52 | 0.13  | 9.10  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col156 | 1  | 1.62  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.18 | 0.00 | 0.18 | 0.00 |
| Col156 | 2  | 0.22  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col156 | 3  | 1.16  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col156 | 4  | 1.16  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col156 | 5  | 1.27  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col156 | 6  | 0.92  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col156 | 7  | 0.92  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col156 | 8  | -0.66 | 21.18 | 0.23  | 3.32 | -0.90 | 3.07 | 0.03 | 0.07 | 0.26 | 0.00 |
| Col156 | 9  | -0.32 | 21.18 | 0.23  | 3.32 | -0.90 | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col156 | 10 | -0.66 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.03 | 0.07 | 0.26 | 0.00 |
| Col156 | 11 | -0.32 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col156 | 12 | -0.66 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.03 | 0.07 | 0.26 | 0.00 |
| Col156 | 13 | -0.32 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col156 | 14 | -0.38 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col156 | 15 | -0.03 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.00 | 0.07 | 0.29 | 0.00 |
| Col156 | 16 | 0.85  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.09 | 0.05 | 0.31 | 0.00 |
| Col156 | 17 | 1.11  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.12 | 0.05 | 0.34 | 0.00 |
| Col156 | 18 | 0.63  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.07 | 0.05 | 0.29 | 0.00 |
| Col156 | 19 | 0.89  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.10 | 0.05 | 0.32 | 0.00 |
| Col156 | 20 | 0.50  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.06 | 0.05 | 0.27 | 0.00 |
| Col156 | 21 | 0.76  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.08 | 0.05 | 0.30 | 0.00 |
| Col156 | 22 | 0.29  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.03 | 0.05 | 0.25 | 0.00 |
| Col156 | 23 | 0.54  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.06 | 0.05 | 0.28 | 0.00 |
| Col156 | 24 | 0.50  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.06 | 0.05 | 0.27 | 0.00 |
| Col156 | 25 | 0.76  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.08 | 0.05 | 0.30 | 0.00 |
| Col156 | 26 | 0.29  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.03 | 0.05 | 0.25 | 0.00 |
| Col156 | 27 | 0.54  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.06 | 0.05 | 0.28 | 0.00 |
| Col156 | 28 | -0.72 | 21.18 | 0.23  | 3.32 | -0.90 | 3.07 | 0.03 | 0.07 | 0.26 | 0.00 |
| Col156 | 29 | -0.38 | 21.18 | 0.23  | 3.32 | -0.90 | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col156 | 30 | -0.72 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.03 | 0.07 | 0.26 | 0.00 |
| Col156 | 31 | -0.38 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col156 | 32 | -0.72 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.03 | 0.07 | 0.26 | 0.00 |
| Col156 | 33 | -0.38 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col156 | 34 | -0.43 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.02 | 0.07 | 0.27 | 0.00 |
| Col156 | 35 | -0.09 | 21.18 | -0.23 | 3.32 | 0.90  | 3.07 | 0.00 | 0.07 | 0.29 | 0.00 |
| Col156 | 36 | 0.22  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col156 | 37 | 0.22  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col156 | 38 | 1.27  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col156 | 39 | 1.27  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col156 | 40 | 0.93  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col156 | 41 | 0.93  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col156 | 42 | 0.93  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col156 | 43 | 0.93  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col156 | 44 | 0.12  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col156 | 45 | 0.12  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col156 | 46 | 1.34  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col156 | 47 | 0.64  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.07 | 0.05 | 0.29 | 0.00 |
| Col156 | 48 | 0.90  | 8.99  | -0.17 | 3.32 | 0.67  | 3.07 | 0.10 | 0.05 | 0.32 | 0.00 |
| Col156 | 49 | 0.22  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col156 | 50 | 0.22  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col156 | 51 | 0.13  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col156 | 52 | 0.13  | 8.99  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col157 | 1  | 1.62  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.18 | 0.00 | 0.18 | 0.00 |
| Col157 | 2  | 0.22  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col157 | 3  | 1.16  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col157 | 4  | 1.16  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col157 | 5  | 1.27  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col157 | 6  | 0.92  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col157 | 7  | 0.92  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col157 | 8  | -0.66 | 21.18 | 0.23  | 3.32 | -0.92 | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col157 | 9  | -0.32 | 21.18 | 0.23  | 3.32 | -0.92 | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 10 | -0.66 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col157 | 11 | -0.32 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 12 | -0.66 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col157 | 13 | -0.32 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 14 | -0.38 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 15 | -0.03 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.00 | 0.07 | 0.30 | 0.00 |
| Col157 | 16 | 0.85  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.10 | 0.05 | 0.32 | 0.00 |
| Col157 | 17 | 1.11  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.12 | 0.05 | 0.35 | 0.00 |
| Col157 | 18 | 0.63  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.07 | 0.05 | 0.30 | 0.00 |
| Col157 | 19 | 0.89  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.10 | 0.05 | 0.33 | 0.00 |
| Col157 | 20 | 0.50  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.06 | 0.05 | 0.28 | 0.00 |
| Col157 | 21 | 0.76  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.09 | 0.05 | 0.31 | 0.00 |
| Col157 | 22 | 0.29  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.03 | 0.05 | 0.26 | 0.00 |
| Col157 | 23 | 0.54  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col157 | 24 | 0.50  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.06 | 0.05 | 0.28 | 0.00 |
| Col157 | 25 | 0.76  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.09 | 0.05 | 0.31 | 0.00 |
| Col157 | 26 | 0.29  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.03 | 0.05 | 0.26 | 0.00 |
| Col157 | 27 | 0.54  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col157 | 28 | -0.72 | 21.18 | 0.23  | 3.32 | -0.92 | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col157 | 29 | -0.38 | 21.18 | 0.23  | 3.32 | -0.92 | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 30 | -0.72 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col157 | 31 | -0.38 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 32 | -0.72 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col157 | 33 | -0.38 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 34 | -0.43 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.02 | 0.07 | 0.28 | 0.00 |
| Col157 | 35 | -0.09 | 21.18 | -0.23 | 3.32 | 0.92  | 3.07 | 0.00 | 0.07 | 0.30 | 0.00 |
| Col157 | 36 | 0.22  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col157 | 37 | 0.22  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col157 | 38 | 1.27  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col157 | 39 | 1.27  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col157 | 40 | 0.93  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col157 | 41 | 0.93  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col157 | 42 | 0.93  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col157 | 43 | 0.93  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.10 | 0.00 | 0.10 | 0.00 |
| Col157 | 44 | 0.12  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col157 | 45 | 0.12  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col157 | 46 | 1.34  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col157 | 47 | 0.64  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.07 | 0.05 | 0.30 | 0.00 |
| Col157 | 48 | 0.90  | 8.89  | -0.18 | 3.32 | 0.69  | 3.07 | 0.10 | 0.05 | 0.33 | 0.00 |
| Col157 | 49 | 0.22  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col157 | 50 | 0.22  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col157 | 51 | 0.13  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col157 | 52 | 0.13  | 8.89  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col158 | 1  | 1.62  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.18 | 0.00 | 0.18 | 0.00 |
| Col158 | 2  | 0.22  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col158 | 3  | 1.16  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col158 | 4  | 1.16  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col158 | 5  | 1.27  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col158 | 6  | 0.92  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col158 | 7  | 0.92  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col158 | 8  | -0.66 | 21.18 | 0.24  | 3.32 | -0.95 | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col158 | 9  | -0.32 | 21.18 | 0.24  | 3.32 | -0.95 | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col158 | 10 | -0.66 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col158 | 11 | -0.32 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col158 | 12 | -0.66 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col158 | 13 | -0.32 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col158 | 14 | -0.38 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col158 | 15 | -0.03 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.00 | 0.07 | 0.31 | 0.00 |
| Col158 | 16 | 0.85  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.10 | 0.05 | 0.33 | 0.00 |
| Col158 | 17 | 1.11  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.13 | 0.05 | 0.36 | 0.00 |
| Col158 | 18 | 0.63  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.07 | 0.05 | 0.30 | 0.00 |
| Col158 | 19 | 0.89  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.10 | 0.05 | 0.33 | 0.00 |
| Col158 | 20 | 0.50  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col158 | 21 | 0.76  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.09 | 0.05 | 0.32 | 0.00 |

|       |    |       |       |       |      |       |      |      |      |      |      |
|-------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col58 | 22 | 0.29  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.03 | 0.05 | 0.26 | 0.00 |
| Col58 | 23 | 0.54  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col58 | 24 | 0.50  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col58 | 25 | 0.76  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.09 | 0.05 | 0.32 | 0.00 |
| Col58 | 26 | 0.29  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.03 | 0.05 | 0.26 | 0.00 |
| Col58 | 27 | 0.54  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col58 | 28 | -0.72 | 21.18 | 0.24  | 3.32 | -0.95 | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col58 | 29 | -0.38 | 21.18 | 0.24  | 3.32 | -0.95 | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col58 | 30 | -0.72 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col58 | 31 | -0.38 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col58 | 32 | -0.72 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.03 | 0.07 | 0.27 | 0.00 |
| Col58 | 33 | -0.38 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col58 | 34 | -0.43 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.02 | 0.07 | 0.29 | 0.00 |
| Col58 | 35 | -0.09 | 21.18 | -0.24 | 3.32 | 0.95  | 3.07 | 0.00 | 0.07 | 0.30 | 0.00 |
| Col58 | 36 | 0.22  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col58 | 37 | 0.22  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col58 | 38 | 1.27  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col58 | 39 | 1.27  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col58 | 40 | 0.93  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col58 | 41 | 0.93  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col58 | 42 | 0.93  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col58 | 43 | 0.93  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col58 | 44 | 0.12  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 45 | 0.12  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 46 | 1.34  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col58 | 47 | 0.64  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.07 | 0.05 | 0.30 | 0.00 |
| Col58 | 48 | 0.90  | 8.78  | -0.18 | 3.32 | 0.71  | 3.07 | 0.10 | 0.05 | 0.33 | 0.00 |
| Col58 | 49 | 0.22  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col58 | 50 | 0.22  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col58 | 51 | 0.13  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col58 | 52 | 0.13  | 8.78  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col59 | 1  | 1.62  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.19 | 0.00 | 0.19 | 0.00 |
| Col59 | 2  | 0.22  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col59 | 3  | 1.16  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col59 | 4  | 1.16  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.13 | 0.00 | 0.13 | 0.00 |
| Col59 | 5  | 1.27  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col59 | 6  | 0.92  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col59 | 7  | 0.92  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col59 | 8  | -0.66 | 21.18 | 0.24  | 3.32 | -0.97 | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col59 | 9  | -0.32 | 21.18 | 0.24  | 3.32 | -0.97 | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 10 | -0.66 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col59 | 11 | -0.32 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 12 | -0.66 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col59 | 13 | -0.32 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 14 | -0.38 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 15 | -0.03 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.00 | 0.07 | 0.31 | 0.00 |
| Col59 | 16 | 0.85  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.10 | 0.05 | 0.33 | 0.00 |
| Col59 | 17 | 1.11  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.13 | 0.05 | 0.36 | 0.00 |
| Col59 | 18 | 0.63  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.07 | 0.05 | 0.31 | 0.00 |
| Col59 | 19 | 0.89  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.10 | 0.05 | 0.34 | 0.00 |
| Col59 | 20 | 0.50  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col59 | 21 | 0.76  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.09 | 0.05 | 0.32 | 0.00 |
| Col59 | 22 | 0.29  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.03 | 0.05 | 0.27 | 0.00 |
| Col59 | 23 | 0.55  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.06 | 0.05 | 0.30 | 0.00 |
| Col59 | 24 | 0.50  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.06 | 0.05 | 0.29 | 0.00 |
| Col59 | 25 | 0.76  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.09 | 0.05 | 0.32 | 0.00 |
| Col59 | 26 | 0.29  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.03 | 0.05 | 0.27 | 0.00 |
| Col59 | 27 | 0.55  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.06 | 0.05 | 0.30 | 0.00 |
| Col59 | 28 | -0.72 | 21.18 | 0.24  | 3.32 | -0.97 | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col59 | 29 | -0.38 | 21.18 | 0.24  | 3.32 | -0.97 | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 30 | -0.72 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col59 | 31 | -0.38 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 32 | -0.72 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.03 | 0.07 | 0.28 | 0.00 |
| Col59 | 33 | -0.38 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col59 | 34 | -0.43 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |

|        |    |       |       |       |      |       |      |      |      |      |      |
|--------|----|-------|-------|-------|------|-------|------|------|------|------|------|
| Col159 | 35 | -0.09 | 21.18 | -0.24 | 3.32 | 0.97  | 3.07 | 0.00 | 0.07 | 0.31 | 0.00 |
| Col159 | 36 | 0.22  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col159 | 37 | 0.22  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col159 | 38 | 1.27  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col159 | 39 | 1.27  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col159 | 40 | 0.93  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col159 | 41 | 0.93  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col159 | 42 | 0.93  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col159 | 43 | 0.93  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col159 | 44 | 0.12  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col159 | 45 | 0.12  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col159 | 46 | 1.34  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col159 | 47 | 0.64  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.07 | 0.05 | 0.31 | 0.00 |
| Col159 | 48 | 0.90  | 8.68  | -0.18 | 3.32 | 0.73  | 3.07 | 0.10 | 0.05 | 0.34 | 0.00 |
| Col159 | 49 | 0.22  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col159 | 50 | 0.22  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col159 | 51 | 0.13  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col159 | 52 | 0.13  | 8.68  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col160 | 1  | 1.62  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.19 | 0.00 | 0.19 | 0.00 |
| Col160 | 2  | 0.22  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col160 | 3  | 1.16  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col160 | 4  | 1.16  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.14 | 0.00 | 0.14 | 0.00 |
| Col160 | 5  | 1.27  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col160 | 6  | 0.92  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col160 | 7  | 0.92  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col160 | 8  | -0.66 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col160 | 9  | -0.32 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 10 | -0.66 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col160 | 11 | -0.32 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 12 | -0.66 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col160 | 13 | -0.32 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 14 | -0.37 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 15 | -0.03 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.00 | 0.07 | 0.32 | 0.00 |
| Col160 | 16 | 0.85  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.10 | 0.06 | 0.34 | 0.00 |
| Col160 | 17 | 1.11  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.13 | 0.06 | 0.37 | 0.00 |
| Col160 | 18 | 0.63  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.07 | 0.06 | 0.32 | 0.00 |
| Col160 | 19 | 0.89  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.10 | 0.06 | 0.35 | 0.00 |
| Col160 | 20 | 0.50  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.06 | 0.06 | 0.30 | 0.00 |
| Col160 | 21 | 0.76  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.09 | 0.06 | 0.33 | 0.00 |
| Col160 | 22 | 0.29  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.03 | 0.06 | 0.28 | 0.00 |
| Col160 | 23 | 0.55  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.06 | 0.06 | 0.31 | 0.00 |
| Col160 | 24 | 0.50  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.06 | 0.06 | 0.30 | 0.00 |
| Col160 | 25 | 0.76  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.09 | 0.06 | 0.33 | 0.00 |
| Col160 | 26 | 0.29  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.03 | 0.06 | 0.28 | 0.00 |
| Col160 | 27 | 0.55  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.06 | 0.06 | 0.31 | 0.00 |
| Col160 | 28 | -0.72 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col160 | 29 | -0.37 | 21.18 | 0.24  | 3.32 | -1.00 | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 30 | -0.72 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col160 | 31 | -0.37 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 32 | -0.72 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.03 | 0.07 | 0.29 | 0.00 |
| Col160 | 33 | -0.37 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.02 | 0.07 | 0.31 | 0.00 |
| Col160 | 34 | -0.43 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.02 | 0.07 | 0.30 | 0.00 |
| Col160 | 35 | -0.09 | 21.18 | -0.24 | 3.32 | 1.00  | 3.07 | 0.00 | 0.07 | 0.32 | 0.00 |
| Col160 | 36 | 0.23  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col160 | 37 | 0.23  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col160 | 38 | 1.27  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col160 | 39 | 1.27  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.15 | 0.00 | 0.15 | 0.00 |
| Col160 | 40 | 0.93  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col160 | 41 | 0.93  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col160 | 42 | 0.93  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col160 | 43 | 0.93  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.11 | 0.00 | 0.11 | 0.00 |
| Col160 | 44 | 0.12  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col160 | 45 | 0.12  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.01 | 0.00 | 0.01 | 0.00 |
| Col160 | 46 | 1.34  | 8.57  | 0.00  | 3.32 | 0.00  | 3.07 | 0.16 | 0.00 | 0.16 | 0.00 |
| Col160 | 47 | 0.64  | 8.57  | -0.18 | 3.32 | 0.75  | 3.07 | 0.07 | 0.06 | 0.32 | 0.00 |

|        |    |      |      |       |      |      |      |      |      |      |      |
|--------|----|------|------|-------|------|------|------|------|------|------|------|
| Col160 | 48 | 0.90 | 8.57 | -0.18 | 3.32 | 0.75 | 3.07 | 0.10 | 0.06 | 0.35 | 0.00 |
| Col160 | 49 | 0.22 | 8.57 | 0.00  | 3.32 | 0.00 | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col160 | 50 | 0.22 | 8.57 | 0.00  | 3.32 | 0.00 | 3.07 | 0.03 | 0.00 | 0.03 | 0.00 |
| Col160 | 51 | 0.13 | 8.57 | 0.00  | 3.32 | 0.00 | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |
| Col160 | 52 | 0.13 | 8.57 | 0.00  | 3.32 | 0.00 | 3.07 | 0.02 | 0.00 | 0.02 | 0.00 |

COLUMN REACTIONS:

| Id     | Load |           | In_Plane  | Out_Plane |
|--------|------|-----------|-----------|-----------|
|        | Id   | Vert (k ) | Horz (k ) | Horz (k ) |
| Col154 | 1    | 1.62      | 0.00      | 0.00      |
| Col154 | 2    | 0.22      | 0.00      | 0.00      |
| Col154 | 3    | 1.16      | 0.00      | 0.00      |
| Col154 | 4    | 1.16      | 0.00      | 0.00      |
| Col154 | 5    | 1.27      | 0.00      | 0.00      |
| Col154 | 6    | 0.92      | 0.00      | 0.00      |
| Col154 | 7    | 0.92      | 0.00      | 0.00      |
| Col154 | 8    | -0.67     | 0.00      | -0.23     |
| Col154 | 9    | -0.32     | 0.00      | -0.23     |
| Col154 | 10   | -0.67     | 0.00      | 0.23      |
| Col154 | 11   | -0.32     | 0.00      | 0.23      |
| Col154 | 12   | -0.67     | 0.00      | 0.23      |
| Col154 | 13   | -0.32     | 0.00      | 0.23      |
| Col154 | 14   | -0.38     | 0.00      | 0.23      |
| Col154 | 15   | -0.03     | 0.00      | 0.23      |
| Col154 | 16   | 0.85      | 0.00      | 0.17      |
| Col154 | 17   | 1.11      | 0.00      | 0.17      |
| Col154 | 18   | 0.63      | 0.00      | 0.17      |
| Col154 | 19   | 0.89      | 0.00      | 0.17      |
| Col154 | 20   | 0.50      | 0.00      | 0.17      |
| Col154 | 21   | 0.76      | 0.00      | 0.17      |
| Col154 | 22   | 0.29      | 0.00      | 0.17      |
| Col154 | 23   | 0.54      | 0.00      | 0.17      |
| Col154 | 24   | 0.50      | 0.00      | 0.17      |
| Col154 | 25   | 0.76      | 0.00      | 0.17      |
| Col154 | 26   | 0.29      | 0.00      | 0.17      |
| Col154 | 27   | 0.54      | 0.00      | 0.17      |
| Col154 | 28   | -0.72     | 0.00      | -0.23     |
| Col154 | 29   | -0.38     | 0.00      | -0.23     |
| Col154 | 30   | -0.72     | 0.00      | 0.23      |
| Col154 | 31   | -0.38     | 0.00      | 0.23      |
| Col154 | 32   | -0.72     | 0.00      | 0.23      |
| Col154 | 33   | -0.38     | 0.00      | 0.23      |
| Col154 | 34   | -0.43     | 0.00      | 0.23      |
| Col154 | 35   | -0.09     | 0.00      | 0.23      |
| Col154 | 36   | 0.22      | 0.00      | 0.00      |
| Col154 | 37   | 0.22      | 0.00      | 0.00      |
| Col154 | 38   | 1.27      | 0.00      | 0.00      |
| Col154 | 39   | 1.27      | 0.00      | 0.00      |
| Col154 | 40   | 0.92      | 0.00      | 0.00      |
| Col154 | 41   | 0.92      | 0.00      | 0.00      |
| Col154 | 42   | 0.92      | 0.00      | 0.00      |
| Col154 | 43   | 0.92      | 0.00      | 0.00      |
| Col154 | 44   | 0.12      | 0.00      | 0.00      |
| Col154 | 45   | 0.12      | 0.00      | 0.00      |
| Col154 | 46   | 1.34      | 0.00      | 0.00      |
| Col154 | 47   | 0.64      | 0.00      | 0.17      |
| Col154 | 48   | 0.90      | 0.00      | 0.17      |
| Col154 | 49   | 0.22      | 0.00      | 0.00      |
| Col154 | 50   | 0.22      | 0.00      | 0.00      |
| Col154 | 51   | 0.13      | 0.00      | 0.00      |
| Col154 | 52   | 0.13      | 0.00      | 0.00      |
| Col155 | 1    | 1.62      | 0.00      | 0.00      |
| Col155 | 2    | 0.22      | 0.00      | 0.00      |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col55 | 3  | 1.16  | 0.00 | 0.00  |
| Col55 | 4  | 1.16  | 0.00 | 0.00  |
| Col55 | 5  | 1.27  | 0.00 | 0.00  |
| Col55 | 6  | 0.92  | 0.00 | 0.00  |
| Col55 | 7  | 0.92  | 0.00 | 0.00  |
| Col55 | 8  | -0.66 | 0.00 | -0.23 |
| Col55 | 9  | -0.32 | 0.00 | -0.23 |
| Col55 | 10 | -0.66 | 0.00 | 0.23  |
| Col55 | 11 | -0.32 | 0.00 | 0.23  |
| Col55 | 12 | -0.66 | 0.00 | 0.23  |
| Col55 | 13 | -0.32 | 0.00 | 0.23  |
| Col55 | 14 | -0.38 | 0.00 | 0.23  |
| Col55 | 15 | -0.03 | 0.00 | 0.23  |
| Col55 | 16 | 0.85  | 0.00 | 0.17  |
| Col55 | 17 | 1.11  | 0.00 | 0.17  |
| Col55 | 18 | 0.63  | 0.00 | 0.17  |
| Col55 | 19 | 0.89  | 0.00 | 0.17  |
| Col55 | 20 | 0.50  | 0.00 | 0.17  |
| Col55 | 21 | 0.76  | 0.00 | 0.17  |
| Col55 | 22 | 0.29  | 0.00 | 0.17  |
| Col55 | 23 | 0.54  | 0.00 | 0.17  |
| Col55 | 24 | 0.50  | 0.00 | 0.17  |
| Col55 | 25 | 0.76  | 0.00 | 0.17  |
| Col55 | 26 | 0.29  | 0.00 | 0.17  |
| Col55 | 27 | 0.54  | 0.00 | 0.17  |
| Col55 | 28 | -0.72 | 0.00 | -0.23 |
| Col55 | 29 | -0.38 | 0.00 | -0.23 |
| Col55 | 30 | -0.72 | 0.00 | 0.23  |
| Col55 | 31 | -0.38 | 0.00 | 0.23  |
| Col55 | 32 | -0.72 | 0.00 | 0.23  |
| Col55 | 33 | -0.38 | 0.00 | 0.23  |
| Col55 | 34 | -0.43 | 0.00 | 0.23  |
| Col55 | 35 | -0.09 | 0.00 | 0.23  |
| Col55 | 36 | 0.22  | 0.00 | 0.00  |
| Col55 | 37 | 0.22  | 0.00 | 0.00  |
| Col55 | 38 | 1.27  | 0.00 | 0.00  |
| Col55 | 39 | 1.27  | 0.00 | 0.00  |
| Col55 | 40 | 0.92  | 0.00 | 0.00  |
| Col55 | 41 | 0.92  | 0.00 | 0.00  |
| Col55 | 42 | 0.92  | 0.00 | 0.00  |
| Col55 | 43 | 0.92  | 0.00 | 0.00  |
| Col55 | 44 | 0.12  | 0.00 | 0.00  |
| Col55 | 45 | 0.12  | 0.00 | 0.00  |
| Col55 | 46 | 1.34  | 0.00 | 0.00  |
| Col55 | 47 | 0.64  | 0.00 | 0.17  |
| Col55 | 48 | 0.90  | 0.00 | 0.17  |
| Col55 | 49 | 0.22  | 0.00 | 0.00  |
| Col55 | 50 | 0.22  | 0.00 | 0.00  |
| Col55 | 51 | 0.13  | 0.00 | 0.00  |
| Col55 | 52 | 0.13  | 0.00 | 0.00  |
| Col56 | 1  | 1.62  | 0.00 | 0.00  |
| Col56 | 2  | 0.22  | 0.00 | 0.00  |
| Col56 | 3  | 1.16  | 0.00 | 0.00  |
| Col56 | 4  | 1.16  | 0.00 | 0.00  |
| Col56 | 5  | 1.27  | 0.00 | 0.00  |
| Col56 | 6  | 0.92  | 0.00 | 0.00  |
| Col56 | 7  | 0.92  | 0.00 | 0.00  |
| Col56 | 8  | -0.66 | 0.00 | -0.23 |
| Col56 | 9  | -0.32 | 0.00 | -0.23 |
| Col56 | 10 | -0.66 | 0.00 | 0.23  |
| Col56 | 11 | -0.32 | 0.00 | 0.23  |
| Col56 | 12 | -0.66 | 0.00 | 0.23  |
| Col56 | 13 | -0.32 | 0.00 | 0.23  |
| Col56 | 14 | -0.38 | 0.00 | 0.23  |
| Col56 | 15 | -0.03 | 0.00 | 0.23  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col56 | 16 | 0.85  | 0.00 | 0.17  |
| Col56 | 17 | 1.11  | 0.00 | 0.17  |
| Col56 | 18 | 0.63  | 0.00 | 0.17  |
| Col56 | 19 | 0.89  | 0.00 | 0.17  |
| Col56 | 20 | 0.50  | 0.00 | 0.17  |
| Col56 | 21 | 0.76  | 0.00 | 0.17  |
| Col56 | 22 | 0.29  | 0.00 | 0.17  |
| Col56 | 23 | 0.54  | 0.00 | 0.17  |
| Col56 | 24 | 0.50  | 0.00 | 0.17  |
| Col56 | 25 | 0.76  | 0.00 | 0.17  |
| Col56 | 26 | 0.29  | 0.00 | 0.17  |
| Col56 | 27 | 0.54  | 0.00 | 0.17  |
| Col56 | 28 | -0.72 | 0.00 | -0.23 |
| Col56 | 29 | -0.38 | 0.00 | -0.23 |
| Col56 | 30 | -0.72 | 0.00 | 0.23  |
| Col56 | 31 | -0.38 | 0.00 | 0.23  |
| Col56 | 32 | -0.72 | 0.00 | 0.23  |
| Col56 | 33 | -0.38 | 0.00 | 0.23  |
| Col56 | 34 | -0.43 | 0.00 | 0.23  |
| Col56 | 35 | -0.09 | 0.00 | 0.23  |
| Col56 | 36 | 0.22  | 0.00 | 0.00  |
| Col56 | 37 | 0.22  | 0.00 | 0.00  |
| Col56 | 38 | 1.27  | 0.00 | 0.00  |
| Col56 | 39 | 1.27  | 0.00 | 0.00  |
| Col56 | 40 | 0.93  | 0.00 | 0.00  |
| Col56 | 41 | 0.93  | 0.00 | 0.00  |
| Col56 | 42 | 0.93  | 0.00 | 0.00  |
| Col56 | 43 | 0.93  | 0.00 | 0.00  |
| Col56 | 44 | 0.12  | 0.00 | 0.00  |
| Col56 | 45 | 0.12  | 0.00 | 0.00  |
| Col56 | 46 | 1.34  | 0.00 | 0.00  |
| Col56 | 47 | 0.64  | 0.00 | 0.17  |
| Col56 | 48 | 0.90  | 0.00 | 0.17  |
| Col56 | 49 | 0.22  | 0.00 | 0.00  |
| Col56 | 50 | 0.22  | 0.00 | 0.00  |
| Col56 | 51 | 0.13  | 0.00 | 0.00  |
| Col56 | 52 | 0.13  | 0.00 | 0.00  |
| Col57 | 1  | 1.62  | 0.00 | 0.00  |
| Col57 | 2  | 0.22  | 0.00 | 0.00  |
| Col57 | 3  | 1.16  | 0.00 | 0.00  |
| Col57 | 4  | 1.16  | 0.00 | 0.00  |
| Col57 | 5  | 1.27  | 0.00 | 0.00  |
| Col57 | 6  | 0.92  | 0.00 | 0.00  |
| Col57 | 7  | 0.92  | 0.00 | 0.00  |
| Col57 | 8  | -0.66 | 0.00 | -0.23 |
| Col57 | 9  | -0.32 | 0.00 | -0.23 |
| Col57 | 10 | -0.66 | 0.00 | 0.23  |
| Col57 | 11 | -0.32 | 0.00 | 0.23  |
| Col57 | 12 | -0.66 | 0.00 | 0.23  |
| Col57 | 13 | -0.32 | 0.00 | 0.23  |
| Col57 | 14 | -0.38 | 0.00 | 0.23  |
| Col57 | 15 | -0.03 | 0.00 | 0.23  |
| Col57 | 16 | 0.85  | 0.00 | 0.18  |
| Col57 | 17 | 1.11  | 0.00 | 0.18  |
| Col57 | 18 | 0.63  | 0.00 | 0.18  |
| Col57 | 19 | 0.89  | 0.00 | 0.18  |
| Col57 | 20 | 0.50  | 0.00 | 0.18  |
| Col57 | 21 | 0.76  | 0.00 | 0.18  |
| Col57 | 22 | 0.29  | 0.00 | 0.18  |
| Col57 | 23 | 0.54  | 0.00 | 0.18  |
| Col57 | 24 | 0.50  | 0.00 | 0.18  |
| Col57 | 25 | 0.76  | 0.00 | 0.18  |
| Col57 | 26 | 0.29  | 0.00 | 0.18  |
| Col57 | 27 | 0.54  | 0.00 | 0.18  |
| Col57 | 28 | -0.72 | 0.00 | -0.23 |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col57 | 29 | -0.38 | 0.00 | -0.23 |
| Col57 | 30 | -0.72 | 0.00 | 0.23  |
| Col57 | 31 | -0.38 | 0.00 | 0.23  |
| Col57 | 32 | -0.72 | 0.00 | 0.23  |
| Col57 | 33 | -0.38 | 0.00 | 0.23  |
| Col57 | 34 | -0.43 | 0.00 | 0.23  |
| Col57 | 35 | -0.09 | 0.00 | 0.23  |
| Col57 | 36 | 0.22  | 0.00 | 0.00  |
| Col57 | 37 | 0.22  | 0.00 | 0.00  |
| Col57 | 38 | 1.27  | 0.00 | 0.00  |
| Col57 | 39 | 1.27  | 0.00 | 0.00  |
| Col57 | 40 | 0.93  | 0.00 | 0.00  |
| Col57 | 41 | 0.93  | 0.00 | 0.00  |
| Col57 | 42 | 0.93  | 0.00 | 0.00  |
| Col57 | 43 | 0.93  | 0.00 | 0.00  |
| Col57 | 44 | 0.12  | 0.00 | 0.00  |
| Col57 | 45 | 0.12  | 0.00 | 0.00  |
| Col57 | 46 | 1.34  | 0.00 | 0.00  |
| Col57 | 47 | 0.64  | 0.00 | 0.18  |
| Col57 | 48 | 0.90  | 0.00 | 0.18  |
| Col57 | 49 | 0.22  | 0.00 | 0.00  |
| Col57 | 50 | 0.22  | 0.00 | 0.00  |
| Col57 | 51 | 0.13  | 0.00 | 0.00  |
| Col57 | 52 | 0.13  | 0.00 | 0.00  |
| Col58 | 1  | 1.62  | 0.00 | 0.00  |
| Col58 | 2  | 0.22  | 0.00 | 0.00  |
| Col58 | 3  | 1.16  | 0.00 | 0.00  |
| Col58 | 4  | 1.16  | 0.00 | 0.00  |
| Col58 | 5  | 1.27  | 0.00 | 0.00  |
| Col58 | 6  | 0.92  | 0.00 | 0.00  |
| Col58 | 7  | 0.92  | 0.00 | 0.00  |
| Col58 | 8  | -0.66 | 0.00 | -0.24 |
| Col58 | 9  | -0.32 | 0.00 | -0.24 |
| Col58 | 10 | -0.66 | 0.00 | 0.24  |
| Col58 | 11 | -0.32 | 0.00 | 0.24  |
| Col58 | 12 | -0.66 | 0.00 | 0.24  |
| Col58 | 13 | -0.32 | 0.00 | 0.24  |
| Col58 | 14 | -0.38 | 0.00 | 0.24  |
| Col58 | 15 | -0.03 | 0.00 | 0.24  |
| Col58 | 16 | 0.85  | 0.00 | 0.18  |
| Col58 | 17 | 1.11  | 0.00 | 0.18  |
| Col58 | 18 | 0.63  | 0.00 | 0.18  |
| Col58 | 19 | 0.89  | 0.00 | 0.18  |
| Col58 | 20 | 0.50  | 0.00 | 0.18  |
| Col58 | 21 | 0.76  | 0.00 | 0.18  |
| Col58 | 22 | 0.29  | 0.00 | 0.18  |
| Col58 | 23 | 0.54  | 0.00 | 0.18  |
| Col58 | 24 | 0.50  | 0.00 | 0.18  |
| Col58 | 25 | 0.76  | 0.00 | 0.18  |
| Col58 | 26 | 0.29  | 0.00 | 0.18  |
| Col58 | 27 | 0.54  | 0.00 | 0.18  |
| Col58 | 28 | -0.72 | 0.00 | -0.24 |
| Col58 | 29 | -0.38 | 0.00 | -0.24 |
| Col58 | 30 | -0.72 | 0.00 | 0.24  |
| Col58 | 31 | -0.38 | 0.00 | 0.24  |
| Col58 | 32 | -0.72 | 0.00 | 0.24  |
| Col58 | 33 | -0.38 | 0.00 | 0.24  |
| Col58 | 34 | -0.43 | 0.00 | 0.24  |
| Col58 | 35 | -0.09 | 0.00 | 0.24  |
| Col58 | 36 | 0.22  | 0.00 | 0.00  |
| Col58 | 37 | 0.22  | 0.00 | 0.00  |
| Col58 | 38 | 1.27  | 0.00 | 0.00  |
| Col58 | 39 | 1.27  | 0.00 | 0.00  |
| Col58 | 40 | 0.93  | 0.00 | 0.00  |
| Col58 | 41 | 0.93  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col58 | 42 | 0.93  | 0.00 | 0.00  |
| Col58 | 43 | 0.93  | 0.00 | 0.00  |
| Col58 | 44 | 0.12  | 0.00 | 0.00  |
| Col58 | 45 | 0.12  | 0.00 | 0.00  |
| Col58 | 46 | 1.34  | 0.00 | 0.00  |
| Col58 | 47 | 0.64  | 0.00 | 0.18  |
| Col58 | 48 | 0.90  | 0.00 | 0.18  |
| Col58 | 49 | 0.22  | 0.00 | 0.00  |
| Col58 | 50 | 0.22  | 0.00 | 0.00  |
| Col58 | 51 | 0.13  | 0.00 | 0.00  |
| Col58 | 52 | 0.13  | 0.00 | 0.00  |
| Col59 | 1  | 1.62  | 0.00 | 0.00  |
| Col59 | 2  | 0.22  | 0.00 | 0.00  |
| Col59 | 3  | 1.16  | 0.00 | 0.00  |
| Col59 | 4  | 1.16  | 0.00 | 0.00  |
| Col59 | 5  | 1.27  | 0.00 | 0.00  |
| Col59 | 6  | 0.92  | 0.00 | 0.00  |
| Col59 | 7  | 0.92  | 0.00 | 0.00  |
| Col59 | 8  | -0.66 | 0.00 | -0.24 |
| Col59 | 9  | -0.32 | 0.00 | -0.24 |
| Col59 | 10 | -0.66 | 0.00 | 0.24  |
| Col59 | 11 | -0.32 | 0.00 | 0.24  |
| Col59 | 12 | -0.66 | 0.00 | 0.24  |
| Col59 | 13 | -0.32 | 0.00 | 0.24  |
| Col59 | 14 | -0.38 | 0.00 | 0.24  |
| Col59 | 15 | -0.03 | 0.00 | 0.24  |
| Col59 | 16 | 0.85  | 0.00 | 0.18  |
| Col59 | 17 | 1.11  | 0.00 | 0.18  |
| Col59 | 18 | 0.63  | 0.00 | 0.18  |
| Col59 | 19 | 0.89  | 0.00 | 0.18  |
| Col59 | 20 | 0.50  | 0.00 | 0.18  |
| Col59 | 21 | 0.76  | 0.00 | 0.18  |
| Col59 | 22 | 0.29  | 0.00 | 0.18  |
| Col59 | 23 | 0.55  | 0.00 | 0.18  |
| Col59 | 24 | 0.50  | 0.00 | 0.18  |
| Col59 | 25 | 0.76  | 0.00 | 0.18  |
| Col59 | 26 | 0.29  | 0.00 | 0.18  |
| Col59 | 27 | 0.55  | 0.00 | 0.18  |
| Col59 | 28 | -0.72 | 0.00 | -0.24 |
| Col59 | 29 | -0.38 | 0.00 | -0.24 |
| Col59 | 30 | -0.72 | 0.00 | 0.24  |
| Col59 | 31 | -0.38 | 0.00 | 0.24  |
| Col59 | 32 | -0.72 | 0.00 | 0.24  |
| Col59 | 33 | -0.38 | 0.00 | 0.24  |
| Col59 | 34 | -0.43 | 0.00 | 0.24  |
| Col59 | 35 | -0.09 | 0.00 | 0.24  |
| Col59 | 36 | 0.22  | 0.00 | 0.00  |
| Col59 | 37 | 0.22  | 0.00 | 0.00  |
| Col59 | 38 | 1.27  | 0.00 | 0.00  |
| Col59 | 39 | 1.27  | 0.00 | 0.00  |
| Col59 | 40 | 0.93  | 0.00 | 0.00  |
| Col59 | 41 | 0.93  | 0.00 | 0.00  |
| Col59 | 42 | 0.93  | 0.00 | 0.00  |
| Col59 | 43 | 0.93  | 0.00 | 0.00  |
| Col59 | 44 | 0.12  | 0.00 | 0.00  |
| Col59 | 45 | 0.12  | 0.00 | 0.00  |
| Col59 | 46 | 1.34  | 0.00 | 0.00  |
| Col59 | 47 | 0.64  | 0.00 | 0.18  |
| Col59 | 48 | 0.90  | 0.00 | 0.18  |
| Col59 | 49 | 0.22  | 0.00 | 0.00  |
| Col59 | 50 | 0.22  | 0.00 | 0.00  |
| Col59 | 51 | 0.13  | 0.00 | 0.00  |
| Col59 | 52 | 0.13  | 0.00 | 0.00  |
| Col60 | 1  | 1.62  | 0.00 | 0.00  |
| Col60 | 2  | 0.22  | 0.00 | 0.00  |

|       |    |       |      |       |
|-------|----|-------|------|-------|
| Col60 | 3  | 1.16  | 0.00 | 0.00  |
| Col60 | 4  | 1.16  | 0.00 | 0.00  |
| Col60 | 5  | 1.27  | 0.00 | 0.00  |
| Col60 | 6  | 0.92  | 0.00 | 0.00  |
| Col60 | 7  | 0.92  | 0.00 | 0.00  |
| Col60 | 8  | -0.66 | 0.00 | -0.24 |
| Col60 | 9  | -0.32 | 0.00 | -0.24 |
| Col60 | 10 | -0.66 | 0.00 | 0.24  |
| Col60 | 11 | -0.32 | 0.00 | 0.24  |
| Col60 | 12 | -0.66 | 0.00 | 0.24  |
| Col60 | 13 | -0.32 | 0.00 | 0.24  |
| Col60 | 14 | -0.37 | 0.00 | 0.24  |
| Col60 | 15 | -0.03 | 0.00 | 0.24  |
| Col60 | 16 | 0.85  | 0.00 | 0.18  |
| Col60 | 17 | 1.11  | 0.00 | 0.18  |
| Col60 | 18 | 0.63  | 0.00 | 0.18  |
| Col60 | 19 | 0.89  | 0.00 | 0.18  |
| Col60 | 20 | 0.50  | 0.00 | 0.18  |
| Col60 | 21 | 0.76  | 0.00 | 0.18  |
| Col60 | 22 | 0.29  | 0.00 | 0.18  |
| Col60 | 23 | 0.55  | 0.00 | 0.18  |
| Col60 | 24 | 0.50  | 0.00 | 0.18  |
| Col60 | 25 | 0.76  | 0.00 | 0.18  |
| Col60 | 26 | 0.29  | 0.00 | 0.18  |
| Col60 | 27 | 0.55  | 0.00 | 0.18  |
| Col60 | 28 | -0.72 | 0.00 | -0.24 |
| Col60 | 29 | -0.37 | 0.00 | -0.24 |
| Col60 | 30 | -0.72 | 0.00 | 0.24  |
| Col60 | 31 | -0.37 | 0.00 | 0.24  |
| Col60 | 32 | -0.72 | 0.00 | 0.24  |
| Col60 | 33 | -0.37 | 0.00 | 0.24  |
| Col60 | 34 | -0.43 | 0.00 | 0.24  |
| Col60 | 35 | -0.09 | 0.00 | 0.24  |
| Col60 | 36 | 0.23  | 0.00 | 0.00  |
| Col60 | 37 | 0.23  | 0.00 | 0.00  |
| Col60 | 38 | 1.27  | 0.00 | 0.00  |
| Col60 | 39 | 1.27  | 0.00 | 0.00  |
| Col60 | 40 | 0.93  | 0.00 | 0.00  |
| Col60 | 41 | 0.93  | 0.00 | 0.00  |
| Col60 | 42 | 0.93  | 0.00 | 0.00  |
| Col60 | 43 | 0.93  | 0.00 | 0.00  |
| Col60 | 44 | 0.12  | 0.00 | 0.00  |
| Col60 | 45 | 0.12  | 0.00 | 0.00  |
| Col60 | 46 | 1.34  | 0.00 | 0.00  |
| Col60 | 47 | 0.64  | 0.00 | 0.18  |
| Col60 | 48 | 0.90  | 0.00 | 0.18  |
| Col60 | 49 | 0.22  | 0.00 | 0.00  |
| Col60 | 50 | 0.22  | 0.00 | 0.00  |
| Col60 | 51 | 0.13  | 0.00 | 0.00  |
| Col60 | 52 | 0.13  | 0.00 | 0.00  |

COLUMN DEFLECTIONS:

| Id    | Load | Deflection(in) |       |
|-------|------|----------------|-------|
|       | Id   | Calc           | Limit |
| Col54 | 1    | 0.00           | 1.00  |
| Col54 | 2    | 0.00           | 1.00  |
| Col54 | 3    | 0.00           | 1.00  |
| Col54 | 4    | 0.00           | 1.00  |
| Col54 | 5    | 0.00           | 1.00  |
| Col54 | 6    | 0.00           | 1.00  |
| Col54 | 7    | 0.00           | 1.00  |
| Col54 | 8    | -0.31          | 1.00  |
| Col54 | 9    | -0.31          | 1.00  |

|       |    |       |      |
|-------|----|-------|------|
| Col54 | 10 | 0.31  | 1.00 |
| Col54 | 11 | 0.31  | 1.00 |
| Col54 | 12 | 0.31  | 1.00 |
| Col54 | 13 | 0.31  | 1.00 |
| Col54 | 14 | 0.31  | 1.00 |
| Col54 | 15 | 0.31  | 1.00 |
| Col54 | 16 | 0.23  | 1.00 |
| Col54 | 17 | 0.23  | 1.00 |
| Col54 | 18 | 0.23  | 1.00 |
| Col54 | 19 | 0.23  | 1.00 |
| Col54 | 20 | 0.23  | 1.00 |
| Col54 | 21 | 0.23  | 1.00 |
| Col54 | 22 | 0.23  | 1.00 |
| Col54 | 23 | 0.23  | 1.00 |
| Col54 | 24 | 0.23  | 1.00 |
| Col54 | 25 | 0.23  | 1.00 |
| Col54 | 26 | 0.23  | 1.00 |
| Col54 | 27 | 0.23  | 1.00 |
| Col54 | 28 | -0.31 | 1.00 |
| Col54 | 29 | -0.31 | 1.00 |
| Col54 | 30 | 0.31  | 1.00 |
| Col54 | 31 | 0.31  | 1.00 |
| Col54 | 32 | 0.31  | 1.00 |
| Col54 | 33 | 0.31  | 1.00 |
| Col54 | 34 | 0.31  | 1.00 |
| Col54 | 35 | 0.31  | 1.00 |
| Col54 | 36 | 0.00  | 1.00 |
| Col54 | 37 | 0.00  | 1.00 |
| Col54 | 38 | 0.00  | 1.00 |
| Col54 | 39 | 0.00  | 1.00 |
| Col54 | 40 | 0.00  | 1.00 |
| Col54 | 41 | 0.00  | 1.00 |
| Col54 | 42 | 0.00  | 1.00 |
| Col54 | 43 | 0.00  | 1.00 |
| Col54 | 44 | 0.00  | 1.00 |
| Col54 | 45 | 0.00  | 1.00 |
| Col54 | 46 | 0.00  | 1.00 |
| Col54 | 47 | 0.14  | 1.00 |
| Col54 | 48 | 0.14  | 1.00 |
| Col55 | 1  | 0.00  | 1.02 |
| Col55 | 2  | 0.00  | 1.02 |
| Col55 | 3  | 0.00  | 1.02 |
| Col55 | 4  | 0.00  | 1.02 |
| Col55 | 5  | 0.00  | 1.02 |
| Col55 | 6  | 0.00  | 1.02 |
| Col55 | 7  | 0.00  | 1.02 |
| Col55 | 8  | -0.33 | 1.02 |
| Col55 | 9  | -0.33 | 1.02 |
| Col55 | 10 | 0.33  | 1.02 |
| Col55 | 11 | 0.33  | 1.02 |
| Col55 | 12 | 0.33  | 1.02 |
| Col55 | 13 | 0.33  | 1.02 |
| Col55 | 14 | 0.33  | 1.02 |
| Col55 | 15 | 0.33  | 1.02 |
| Col55 | 16 | 0.25  | 1.02 |
| Col55 | 17 | 0.25  | 1.02 |
| Col55 | 18 | 0.25  | 1.02 |
| Col55 | 19 | 0.25  | 1.02 |
| Col55 | 20 | 0.25  | 1.02 |
| Col55 | 21 | 0.25  | 1.02 |
| Col55 | 22 | 0.25  | 1.02 |
| Col55 | 23 | 0.25  | 1.02 |
| Col55 | 24 | 0.25  | 1.02 |
| Col55 | 25 | 0.25  | 1.02 |
| Col55 | 26 | 0.25  | 1.02 |

|       |    |       |      |
|-------|----|-------|------|
| Col55 | 27 | 0.25  | 1.02 |
| Col55 | 28 | -0.33 | 1.02 |
| Col55 | 29 | -0.33 | 1.02 |
| Col55 | 30 | 0.33  | 1.02 |
| Col55 | 31 | 0.33  | 1.02 |
| Col55 | 32 | 0.33  | 1.02 |
| Col55 | 33 | 0.33  | 1.02 |
| Col55 | 34 | 0.33  | 1.02 |
| Col55 | 35 | 0.33  | 1.02 |
| Col55 | 36 | 0.00  | 1.02 |
| Col55 | 37 | 0.00  | 1.02 |
| Col55 | 38 | 0.00  | 1.02 |
| Col55 | 39 | 0.00  | 1.02 |
| Col55 | 40 | 0.00  | 1.02 |
| Col55 | 41 | 0.00  | 1.02 |
| Col55 | 42 | 0.00  | 1.02 |
| Col55 | 43 | 0.00  | 1.02 |
| Col55 | 44 | 0.00  | 1.02 |
| Col55 | 45 | 0.00  | 1.02 |
| Col55 | 46 | 0.00  | 1.02 |
| Col55 | 47 | 0.15  | 1.02 |
| Col55 | 48 | 0.15  | 1.02 |
| Col56 | 1  | 0.00  | 1.03 |
| Col56 | 2  | 0.00  | 1.03 |
| Col56 | 3  | 0.00  | 1.03 |
| Col56 | 4  | 0.00  | 1.03 |
| Col56 | 5  | 0.00  | 1.03 |
| Col56 | 6  | 0.00  | 1.03 |
| Col56 | 7  | 0.00  | 1.03 |
| Col56 | 8  | -0.35 | 1.03 |
| Col56 | 9  | -0.35 | 1.03 |
| Col56 | 10 | 0.35  | 1.03 |
| Col56 | 11 | 0.35  | 1.03 |
| Col56 | 12 | 0.35  | 1.03 |
| Col56 | 13 | 0.35  | 1.03 |
| Col56 | 14 | 0.35  | 1.03 |
| Col56 | 15 | 0.35  | 1.03 |
| Col56 | 16 | 0.26  | 1.03 |
| Col56 | 17 | 0.26  | 1.03 |
| Col56 | 18 | 0.26  | 1.03 |
| Col56 | 19 | 0.26  | 1.03 |
| Col56 | 20 | 0.26  | 1.03 |
| Col56 | 21 | 0.26  | 1.03 |
| Col56 | 22 | 0.26  | 1.03 |
| Col56 | 23 | 0.26  | 1.03 |
| Col56 | 24 | 0.26  | 1.03 |
| Col56 | 25 | 0.26  | 1.03 |
| Col56 | 26 | 0.26  | 1.03 |
| Col56 | 27 | 0.26  | 1.03 |
| Col56 | 28 | -0.35 | 1.03 |
| Col56 | 29 | -0.35 | 1.03 |
| Col56 | 30 | 0.35  | 1.03 |
| Col56 | 31 | 0.35  | 1.03 |
| Col56 | 32 | 0.35  | 1.03 |
| Col56 | 33 | 0.35  | 1.03 |
| Col56 | 34 | 0.35  | 1.03 |
| Col56 | 35 | 0.35  | 1.03 |
| Col56 | 36 | 0.00  | 1.03 |
| Col56 | 37 | 0.00  | 1.03 |
| Col56 | 38 | 0.00  | 1.03 |
| Col56 | 39 | 0.00  | 1.03 |
| Col56 | 40 | 0.00  | 1.03 |
| Col56 | 41 | 0.00  | 1.03 |
| Col56 | 42 | 0.00  | 1.03 |
| Col56 | 43 | 0.00  | 1.03 |

|       |    |       |      |
|-------|----|-------|------|
| Col56 | 44 | 0.00  | 1.03 |
| Col56 | 45 | 0.00  | 1.03 |
| Col56 | 46 | 0.00  | 1.03 |
| Col56 | 47 | 0.16  | 1.03 |
| Col56 | 48 | 0.16  | 1.03 |
| Col57 | 1  | 0.00  | 1.04 |
| Col57 | 2  | 0.00  | 1.04 |
| Col57 | 3  | 0.00  | 1.04 |
| Col57 | 4  | 0.00  | 1.04 |
| Col57 | 5  | 0.00  | 1.04 |
| Col57 | 6  | 0.00  | 1.04 |
| Col57 | 7  | 0.00  | 1.04 |
| Col57 | 8  | -0.37 | 1.04 |
| Col57 | 9  | -0.37 | 1.04 |
| Col57 | 10 | 0.37  | 1.04 |
| Col57 | 11 | 0.37  | 1.04 |
| Col57 | 12 | 0.37  | 1.04 |
| Col57 | 13 | 0.37  | 1.04 |
| Col57 | 14 | 0.37  | 1.04 |
| Col57 | 15 | 0.37  | 1.04 |
| Col57 | 16 | 0.28  | 1.04 |
| Col57 | 17 | 0.28  | 1.04 |
| Col57 | 18 | 0.28  | 1.04 |
| Col57 | 19 | 0.28  | 1.04 |
| Col57 | 20 | 0.28  | 1.04 |
| Col57 | 21 | 0.28  | 1.04 |
| Col57 | 22 | 0.28  | 1.04 |
| Col57 | 23 | 0.28  | 1.04 |
| Col57 | 24 | 0.28  | 1.04 |
| Col57 | 25 | 0.28  | 1.04 |
| Col57 | 26 | 0.28  | 1.04 |
| Col57 | 27 | 0.28  | 1.04 |
| Col57 | 28 | -0.37 | 1.04 |
| Col57 | 29 | -0.37 | 1.04 |
| Col57 | 30 | 0.37  | 1.04 |
| Col57 | 31 | 0.37  | 1.04 |
| Col57 | 32 | 0.37  | 1.04 |
| Col57 | 33 | 0.37  | 1.04 |
| Col57 | 34 | 0.37  | 1.04 |
| Col57 | 35 | 0.37  | 1.04 |
| Col57 | 36 | 0.00  | 1.04 |
| Col57 | 37 | 0.00  | 1.04 |
| Col57 | 38 | 0.00  | 1.04 |
| Col57 | 39 | 0.00  | 1.04 |
| Col57 | 40 | 0.00  | 1.04 |
| Col57 | 41 | 0.00  | 1.04 |
| Col57 | 42 | 0.00  | 1.04 |
| Col57 | 43 | 0.00  | 1.04 |
| Col57 | 44 | 0.00  | 1.04 |
| Col57 | 45 | 0.00  | 1.04 |
| Col57 | 46 | 0.00  | 1.04 |
| Col57 | 47 | 0.17  | 1.04 |
| Col57 | 48 | 0.17  | 1.04 |
| Col58 | 1  | 0.00  | 1.06 |
| Col58 | 2  | 0.00  | 1.06 |
| Col58 | 3  | 0.00  | 1.06 |
| Col58 | 4  | 0.00  | 1.06 |
| Col58 | 5  | 0.00  | 1.06 |
| Col58 | 6  | 0.00  | 1.06 |
| Col58 | 7  | 0.00  | 1.06 |
| Col58 | 8  | -0.39 | 1.06 |
| Col58 | 9  | -0.39 | 1.06 |
| Col58 | 10 | 0.39  | 1.06 |
| Col58 | 11 | 0.39  | 1.06 |
| Col58 | 12 | 0.39  | 1.06 |

|       |    |       |      |
|-------|----|-------|------|
| Col58 | 13 | 0.39  | 1.06 |
| Col58 | 14 | 0.39  | 1.06 |
| Col58 | 15 | 0.39  | 1.06 |
| Col58 | 16 | 0.29  | 1.06 |
| Col58 | 17 | 0.29  | 1.06 |
| Col58 | 18 | 0.29  | 1.06 |
| Col58 | 19 | 0.29  | 1.06 |
| Col58 | 20 | 0.29  | 1.06 |
| Col58 | 21 | 0.29  | 1.06 |
| Col58 | 22 | 0.29  | 1.06 |
| Col58 | 23 | 0.29  | 1.06 |
| Col58 | 24 | 0.29  | 1.06 |
| Col58 | 25 | 0.29  | 1.06 |
| Col58 | 26 | 0.29  | 1.06 |
| Col58 | 27 | 0.29  | 1.06 |
| Col58 | 28 | -0.39 | 1.06 |
| Col58 | 29 | -0.39 | 1.06 |
| Col58 | 30 | 0.39  | 1.06 |
| Col58 | 31 | 0.39  | 1.06 |
| Col58 | 32 | 0.39  | 1.06 |
| Col58 | 33 | 0.39  | 1.06 |
| Col58 | 34 | 0.39  | 1.06 |
| Col58 | 35 | 0.39  | 1.06 |
| Col58 | 36 | 0.00  | 1.06 |
| Col58 | 37 | 0.00  | 1.06 |
| Col58 | 38 | 0.00  | 1.06 |
| Col58 | 39 | 0.00  | 1.06 |
| Col58 | 40 | 0.00  | 1.06 |
| Col58 | 41 | 0.00  | 1.06 |
| Col58 | 42 | 0.00  | 1.06 |
| Col58 | 43 | 0.00  | 1.06 |
| Col58 | 44 | 0.00  | 1.06 |
| Col58 | 45 | 0.00  | 1.06 |
| Col58 | 46 | 0.00  | 1.06 |
| Col58 | 47 | 0.17  | 1.06 |
| Col58 | 48 | 0.17  | 1.06 |
| Col59 | 1  | 0.00  | 1.07 |
| Col59 | 2  | 0.00  | 1.07 |
| Col59 | 3  | 0.00  | 1.07 |
| Col59 | 4  | 0.00  | 1.07 |
| Col59 | 5  | 0.00  | 1.07 |
| Col59 | 6  | 0.00  | 1.07 |
| Col59 | 7  | 0.00  | 1.07 |
| Col59 | 8  | -0.41 | 1.07 |
| Col59 | 9  | -0.41 | 1.07 |
| Col59 | 10 | 0.41  | 1.07 |
| Col59 | 11 | 0.41  | 1.07 |
| Col59 | 12 | 0.41  | 1.07 |
| Col59 | 13 | 0.41  | 1.07 |
| Col59 | 14 | 0.41  | 1.07 |
| Col59 | 15 | 0.41  | 1.07 |
| Col59 | 16 | 0.31  | 1.07 |
| Col59 | 17 | 0.31  | 1.07 |
| Col59 | 18 | 0.31  | 1.07 |
| Col59 | 19 | 0.31  | 1.07 |
| Col59 | 20 | 0.31  | 1.07 |
| Col59 | 21 | 0.31  | 1.07 |
| Col59 | 22 | 0.31  | 1.07 |
| Col59 | 23 | 0.31  | 1.07 |
| Col59 | 24 | 0.31  | 1.07 |
| Col59 | 25 | 0.31  | 1.07 |
| Col59 | 26 | 0.31  | 1.07 |
| Col59 | 27 | 0.31  | 1.07 |
| Col59 | 28 | -0.41 | 1.07 |
| Col59 | 29 | -0.41 | 1.07 |

|       |    |       |      |
|-------|----|-------|------|
| Col59 | 30 | 0.41  | 1.07 |
| Col59 | 31 | 0.41  | 1.07 |
| Col59 | 32 | 0.41  | 1.07 |
| Col59 | 33 | 0.41  | 1.07 |
| Col59 | 34 | 0.41  | 1.07 |
| Col59 | 35 | 0.41  | 1.07 |
| Col59 | 36 | 0.00  | 1.07 |
| Col59 | 37 | 0.00  | 1.07 |
| Col59 | 38 | 0.00  | 1.07 |
| Col59 | 39 | 0.00  | 1.07 |
| Col59 | 40 | 0.00  | 1.07 |
| Col59 | 41 | 0.00  | 1.07 |
| Col59 | 42 | 0.00  | 1.07 |
| Col59 | 43 | 0.00  | 1.07 |
| Col59 | 44 | 0.00  | 1.07 |
| Col59 | 45 | 0.00  | 1.07 |
| Col59 | 46 | 0.00  | 1.07 |
| Col59 | 47 | 0.18  | 1.07 |
| Col59 | 48 | 0.18  | 1.07 |
| Col60 | 1  | 0.00  | 1.09 |
| Col60 | 2  | 0.00  | 1.09 |
| Col60 | 3  | 0.00  | 1.09 |
| Col60 | 4  | 0.00  | 1.09 |
| Col60 | 5  | 0.00  | 1.09 |
| Col60 | 6  | 0.00  | 1.09 |
| Col60 | 7  | 0.00  | 1.09 |
| Col60 | 8  | -0.43 | 1.09 |
| Col60 | 9  | -0.43 | 1.09 |
| Col60 | 10 | 0.43  | 1.09 |
| Col60 | 11 | 0.43  | 1.09 |
| Col60 | 12 | 0.43  | 1.09 |
| Col60 | 13 | 0.43  | 1.09 |
| Col60 | 14 | 0.43  | 1.09 |
| Col60 | 15 | 0.43  | 1.09 |
| Col60 | 16 | 0.32  | 1.09 |
| Col60 | 17 | 0.32  | 1.09 |
| Col60 | 18 | 0.32  | 1.09 |
| Col60 | 19 | 0.32  | 1.09 |
| Col60 | 20 | 0.32  | 1.09 |
| Col60 | 21 | 0.32  | 1.09 |
| Col60 | 22 | 0.32  | 1.09 |
| Col60 | 23 | 0.32  | 1.09 |
| Col60 | 24 | 0.32  | 1.09 |
| Col60 | 25 | 0.32  | 1.09 |
| Col60 | 26 | 0.32  | 1.09 |
| Col60 | 27 | 0.32  | 1.09 |
| Col60 | 28 | -0.43 | 1.09 |
| Col60 | 29 | -0.43 | 1.09 |
| Col60 | 30 | 0.43  | 1.09 |
| Col60 | 31 | 0.43  | 1.09 |
| Col60 | 32 | 0.43  | 1.09 |
| Col60 | 33 | 0.43  | 1.09 |
| Col60 | 34 | 0.43  | 1.09 |
| Col60 | 35 | 0.43  | 1.09 |
| Col60 | 36 | 0.00  | 1.09 |
| Col60 | 37 | 0.00  | 1.09 |
| Col60 | 38 | 0.00  | 1.09 |
| Col60 | 39 | 0.00  | 1.09 |
| Col60 | 40 | 0.00  | 1.09 |
| Col60 | 41 | 0.00  | 1.09 |
| Col60 | 42 | 0.00  | 1.09 |
| Col60 | 43 | 0.00  | 1.09 |
| Col60 | 44 | 0.00  | 1.09 |
| Col60 | 45 | 0.00  | 1.09 |
| Col60 | 46 | 0.00  | 1.09 |

|       |    |      |      |
|-------|----|------|------|
| Col60 | 47 | 0.19 | 1.09 |
| Col60 | 48 | 0.19 | 1.09 |

COLUMN KL/R RATIO, MOMENT REDUCTION:

| Id     | Major<br>(ft) | --Minor (ft)-- |       | ----KL/R---- |       | Available<br>Reduction<br>Factor |      |
|--------|---------------|----------------|-------|--------------|-------|----------------------------------|------|
|        |               | Bend           | Axial | Major        | Minor | Out                              | In   |
| Col154 | 15.0          | 0.1            | 0.1   | 78           | 2     | 0.00                             | 0.00 |
| Col155 | 15.3          | 0.1            | 0.1   | 79           | 2     | 0.00                             | 0.00 |
| Col156 | 15.5          | 0.1            | 0.1   | 80           | 2     | 0.00                             | 0.00 |
| Col157 | 15.7          | 0.1            | 0.1   | 81           | 2     | 0.00                             | 0.00 |
| Col158 | 15.9          | 0.1            | 0.1   | 82           | 2     | 0.00                             | 0.00 |
| Col159 | 16.1          | 0.1            | 0.1   | 83           | 2     | 0.00                             | 0.00 |
| Col160 | 16.3          | 0.1            | 0.1   | 85           | 2     | 0.00                             | 0.00 |

PANEL DATA:

| Bay | Part  | Type | Gage  | Yield |
|-----|-------|------|-------|-------|
| --- | ----- | ---  | ----- | ----- |
| 1   | PBR29 | PR   | 29.00 | 60.0  |

MOMENTS & DEFLECTION:

| -----Moment (ft-lb/ft)----- |            |       |      |       |       |         |       |       |       |           |             |       |
|-----------------------------|------------|-------|------|-------|-------|---------|-------|-------|-------|-----------|-------------|-------|
| Span<br>Id                  | Locate(ft) |       | Load | Start |       | Midspan |       | End   |       | Max<br>UC | Deflect(in) |       |
|                             | Start      | End   |      | Calc  | Limit | Calc    | Limit | Calc  | Limit |           | Calc        | Limit |
| ----                        | -----      | ----- | ---- | ----- | ----- | -----   | ----- | ----- | ----- | -----     | -----       | ----- |
| 1                           | 0.00       | 5.00  | WP   | 0.0   | 70.2  | -11.7   | 70.2  | 15.9  | 107.0 | 0.17      | -0.04       | 1.00  |
|                             |            |       | WS   | 0.0   | 107.0 | 11.7    | 107.0 | -15.9 | 70.2  | 0.23      | 0.04        | 1.00  |
| 2                           | 5.00       | 10.00 | WP   | 15.9  | 107.0 | -5.1    | 70.2  | 11.6  | 107.0 | 0.15      | -0.01       | 1.00  |
|                             |            |       | WS   | -15.9 | 70.2  | 5.1     | 107.0 | -11.6 | 70.2  | 0.23      | 0.01        | 1.00  |
| 3                           | 10.00      | 15.00 | WP   | 11.6  | 107.0 | -6.6    | 70.2  | 12.8  | 107.0 | 0.12      | -0.02       | 1.00  |
|                             |            |       | WS   | -11.6 | 70.2  | 6.6     | 107.0 | -12.8 | 70.2  | 0.18      | 0.02        | 1.00  |
| 4                           | 15.00      | 20.00 | WP   | 12.8  | 107.0 | -6.2    | 70.2  | 12.4  | 107.0 | 0.12      | -0.01       | 1.00  |
|                             |            |       | WS   | -12.8 | 70.2  | 6.2     | 107.0 | -12.4 | 70.2  | 0.18      | 0.01        | 1.00  |
| 5                           | 20.00      | 25.00 | WP   | 12.4  | 107.0 | -6.2    | 70.2  | 12.8  | 107.0 | 0.12      | -0.01       | 1.00  |
|                             |            |       | WS   | -12.4 | 70.2  | 6.2     | 107.0 | -12.8 | 70.2  | 0.18      | 0.01        | 1.00  |
| 6                           | 25.00      | 30.00 | WP   | 12.8  | 107.0 | -6.6    | 70.2  | 11.6  | 107.0 | 0.12      | -0.02       | 1.00  |
|                             |            |       | WS   | -12.8 | 70.2  | 6.6     | 107.0 | -11.6 | 70.2  | 0.18      | 0.02        | 1.00  |
| 7                           | 30.00      | 35.00 | WP   | 11.6  | 107.0 | -5.1    | 70.2  | 15.9  | 107.0 | 0.15      | -0.01       | 1.00  |
|                             |            |       | WS   | -11.6 | 70.2  | 5.1     | 107.0 | -15.9 | 70.2  | 0.23      | 0.01        | 1.00  |
| 8                           | 35.00      | 40.00 | WP   | 15.9  | 107.0 | -11.7   | 70.2  | 0.0   | 107.0 | 0.17      | -0.04       | 1.00  |
|                             |            |       | WS   | -15.9 | 70.2  | 11.7    | 107.0 | 0.0   | 107.0 | 0.23      | 0.04        | 1.00  |
| WP - Wind_Pressure          |            |       |      |       |       |         |       |       |       |           |             |       |
| WS - Wind_Suction           |            |       |      |       |       |         |       |       |       |           |             |       |

.. No Warnings