

# CFSE GUIDE

## FLOW OF FLUIDS

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**TABLE C4.25** Velocity pressure loss factors for duct fittings — continued

| <b>RADIUS BENDS</b><br>(Factors refer to the velocity pressure in the duct.)   |       |       |      |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
|--|-------|-------|------|-------|-----------------------|-------|-----|-------|-----|------|------|------|------|--|-----|------|------|------|--|-----|------|------|------|--|-----|------|------|------|--|---|--|--|--|--|-------|-------|-----|-----|-----|-----|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|-----|------|------|------|------|--|
| CIRCULAR DUCT, 90°   |       |       |      |       | RECTANGULAR DUCT, 90° |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
|  |       |       |      |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th><math>R/D</math></th> <th><math>K</math></th> <th><math>K</math></th> <th><math>K</math></th> <th><math>K</math></th> </tr> </thead> <tbody> <tr> <td>0.25</td> <td>0.34</td> <td>0.29</td> <td>0.28</td> <td></td> </tr> <tr> <td>0.5</td> <td>0.46</td> <td>0.43</td> <td>0.44</td> <td></td> </tr> <tr> <td>1.0</td> <td>0.62</td> <td>0.58</td> <td>0.59</td> <td></td> </tr> <tr> <td>2.0</td> <td>0.86</td> <td>0.82</td> <td>0.84</td> <td></td> </tr> </tbody> </table> |       |       |      |       | $R/D$                 | $K$   | $K$ | $K$   | $K$ | 0.25 | 0.34 | 0.29 | 0.28 |  | 0.5 | 0.46 | 0.43 | 0.44 |  | 1.0 | 0.62 | 0.58 | 0.59 |  | 2.0 | 0.86 | 0.82 | 0.84 |  | <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th><math>W/H</math></th> <th><math>R/W</math></th> <th><math>K</math></th> <th><math>K</math></th> <th><math>K</math></th> <th><math>K</math></th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>0.07</td> <td>0.24</td> <td>0.26</td> <td>0.26</td> <td></td> </tr> <tr> <td>0.4</td> <td>0.20</td> <td>0.33</td> <td>0.35</td> <td>0.34</td> <td></td> </tr> <tr> <td>0.7</td> <td>0.34</td> <td>0.48</td> <td>0.50</td> <td>0.49</td> <td></td> </tr> <tr> <td>1.0</td> <td>0.50</td> <td>0.64</td> <td>0.65</td> <td>0.64</td> <td></td> </tr> <tr> <td>1.5</td> <td>0.82</td> <td>0.80</td> <td>0.81</td> <td>0.81</td> <td></td> </tr> <tr> <td>2.0</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td></td> </tr> <tr> <td>3.0</td> <td>1.25</td> <td>1.21</td> <td>1.22</td> <td>1.22</td> <td></td> </tr> <tr> <td>4.0</td> <td>1.50</td> <td>1.47</td> <td>1.48</td> <td>1.48</td> <td></td> </tr> <tr> <td>5.0</td> <td>1.75</td> <td>1.73</td> <td>1.74</td> <td>1.74</td> <td></td> </tr> </tbody> </table> |  |  |  |  | $W/H$ | $R/W$ | $K$ | $K$ | $K$ | $K$ | 0.2 | 0.07 | 0.24 | 0.26 | 0.26 |  | 0.4 | 0.20 | 0.33 | 0.35 | 0.34 |  | 0.7 | 0.34 | 0.48 | 0.50 | 0.49 |  | 1.0 | 0.50 | 0.64 | 0.65 | 0.64 |  | 1.5 | 0.82 | 0.80 | 0.81 | 0.81 |  | 2.0 | 1.00 | 1.00 | 1.00 | 1.00 |  | 3.0 | 1.25 | 1.21 | 1.22 | 1.22 |  | 4.0 | 1.50 | 1.47 | 1.48 | 1.48 |  | 5.0 | 1.75 | 1.73 | 1.74 | 1.74 |  |
| $R/D$  | $K$   | $K$   | $K$  | $K$   |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.25   | 0.34  | 0.29  | 0.28 |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  | 0.46  | 0.43  | 0.44 |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 1.0  | 0.62  | 0.58  | 0.59 |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 2.0  | 0.86  | 0.82  | 0.84 |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| $W/H$  | $R/W$ | $K$   | $K$  | $K$   | $K$                   |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.2  | 0.07  | 0.24  | 0.26 | 0.26  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.4  | 0.20  | 0.33  | 0.35 | 0.34  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.7  | 0.34  | 0.48  | 0.50 | 0.49  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 1.0  | 0.50  | 0.64  | 0.65 | 0.64  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 1.5  | 0.82  | 0.80  | 0.81 | 0.81  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 2.0  | 1.00  | 1.00  | 1.00 | 1.00  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 3.0  | 1.25  | 1.21  | 1.22 | 1.22  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 4.0  | 1.50  | 1.47  | 1.48 | 1.48  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 5.0  | 1.75  | 1.73  | 1.74 | 1.74  |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| <b>MITRE BENDS</b><br>(Factors refer to the velocity pressure in the duct.)  |       |       |      |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
|  |       |       |      |       |                       |       |     |       |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 90°  |       | 90°-α |      | 90°-α |                       | 90°-α |     | 90°-α |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| K  |       | K     |      | K     |                       | K     |     | K     |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
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| 0.5  |       | 0.5   |      | 0.5   |                       | 0.5   |     | 0.5   |     |      |      |      |      |  |     |      |      |      |  |     |      |      |      |  |     |      |      |      |  |   |  |  |  |  |       |       |     |     |     |     |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |     |      |      |      |      |  |
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**Timothy Edward Johnson**



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