

BYiY DcghZ]`]U`Y ZØf 5 `h[`]Yb]W_Y. VYf[Ub[ggYfj]WYg]b 5X`Yfg\cZ

 $\label{thm:continuous} $$ ``5 ``M_i `]Yb]W_Y ``8]Y `8Yi hgWX Y `Dcgh`n]Y `h`X]Y `BchVfYa gY ``5 V `XYa ``%+"`C_hcVYf`&$&(`V`Y]Vh`X]Y `DcghZ]`]U`Y `]b`XYf`? OdYb]W_Yf Ghf" `%* `ZØf`]a a Yf`[YgWX `cggYb ``9]bY `gWX cW_]YfYbXY `BUWX f]WX h`ZØf U``Yž`X]Y `Ui Z`X]Y `[Yk c\bhYb `dcghU`]gWX Yb `8]YbghY `Ub[Yk]YgYb g]bX" `8Yf`J Yf`i gh`X]YgYf`:]`]U`Y`k]fX`nk Y]ZY``cg`Y]b][Y`j cb`Yi WX VYhfYZZYb ```$

 $\label{eq:continuous} $$ c W Yg'[]Vh' < c ZZbi b["8]Y'8Yi hgW Y'Dcgh' Uh'VYfY]hg'XYb'D`Ub [YZUgghž']b'XYf'B UW VUfgW UZh'Y]bY'bYi Y':]`]U`Y'ni 'YfÒZZbYb''8]Y Gi W Y'bUW Y]bYa 'bYi Yb'DUfhbYf' Uh'VY[cbbYb' 'XUg']gh'Y]b @]W hV`]W_'ZØf'X]Y'5`h[`]Yb]W_Yf''\$'Y]bYf'NY]hž']b'XYf'YXYf'6f]YZ i bX'YXYg'DU_Yh'nÀ\`hž'V`Y]Vh'XYf'dcghU`]gW Y'gYfj]W''U`gc'b]W h Ui Z'XYf'GhfYW_Y''''$

, VYf[Ub[gUb[YVchY'ZØf'?ibXYb

": Øf'U``YžX]Y'b]Wkh'Ui Z']\fY'k]Wkh][Yb'dcghU`]gWkYb
5b[Y`Y[Yb\Y]hYb'jYfn]WkhYb'a OWkhYbž'[]Vh'Yg'jcfØVYf[Y\YbXY
@Ogi b[Yb''8]Y'5XfYggUhYb'_ObbYb'V]g'Ui Z'K Y]hYfYg']\fY'6f]YZY
i bX'DU_YhY']b'XYf'DUfhbYfZ]`]U`Y']b'XYf'Fi Xck Yf'7\Ui ggYY'%&']b
6Yf`]b!5X`Yfg\cZ'Ui Z[YVYb"'8cfh'ghY\Yb'X]Y'HØfYb'jcb'AcbhU['V]g

GUa ghU['j cb', 'V]g'%- 'l \f'ZØf'Yi W\'cZZYb"'9]bY'dfU_h]gW\Y 5`hYfbUh]j Yž'V]g'X]Y'bYi Y':]`]U`Y']bg'@YVYb'[Yfi ZYb'k]fX°''

'; fY]Zh'ni f'Dcgh'i bX'`Uggh'Yi W\'b]W\h'Ybha i h][Yb'`K À\fYbX'X]Y
A YbgW\Yb']b'5`h[`]Yb]W_Y'g]W\'Ub'X]YgY'JYfÀbXYfi b[Yb
UbdUggYbž'V'Y]Vh'XYf'Ni [Ub['ni 'dcghU`]gW\Yb'8]Ybgh`Y]ghi b[Yb
k Y]hYf\]b'[Yk À\f`Y]ghYh''A]h'Yhk Ug'; YXi `X'i bX': `YI]V]`]hÀh'_Ubb
X]YgYf', VYf[Ub['Ui W\'U`g'7\UbWY'[YgY\Yb'k YfXYb''''

.

8 YhU]`q

6Ygi WXYb G]Y i bg Ui Z b!U["XY