

NYi [Yb [Ygi W h. 'HUgW YbfUi V ']a GUfghYXhYf' =b bYfghYVUX

NYi [YbUi Zfi Z 'BUW 'HUgW YbYbhk YbXi b[']a ' =b bYfghYVUX ']b
GUfghYXh'k]fX'i a ' <]bk Y]gY'ni 'Y]bYa 'i bVY_UbbhYb 'HÄhYf
[YVYhYb "

=b 'Y]bYa ' J c fZU``ž'XYf'XUg'F]g]_c' ZØf'dYfgÖb`]W Y'; Y[YbghÄbXY']a
ÖZYbh`]W Y'F Ui a 'i bhYfghfY]W hž'k i fXYb'Ua ' &- "'5i [i gh&\$&('Ua
=b bYfghYVUX ']b'GUfghYXh'a Y\fyfY 'HUgW Yb'j cb'?]bXYfb
Ybhk YbXYh'Nk]gW Yb '%+. %\$'i bX '%+. (\$'I \fž'k Ä\fybX'Y]bYg
d'Öhn`]W Yb'F Y[YbgW Ui Yfgž'bi hnYb'gW Y]bVUf'i bVY_UbbhY 'HÄhYf
X]Y'; Y`Y[Yb\Y]hž'i a 'g]W 'X]Y'i bVYk UW hYb 'HUgW Yb'Ubni Y][bYb"
8]Y'VYhfcZYbYb'?]bXYfž'ja '5'hYf'j cb', ž'%'i bX'%' 'Δ\fybž
Yf'YVhYb'Y]bYb'i b`YVgUa Yb'A ca Ybhž'XYf'\bYb'X]Y': fYi XY'Ua
6UXYUi gZi ['bU\ a "

8]Y'G]hi Uh]cb'YfY][bYhY'g]W 'Ub'Y]bYa 'HU[ž'XYf'ZØf'j]Y`Y'† b[Y
6Ygi W Yf'XYg' =b bYfghYVUXYg'k U\fgW Y]b`]W 'a]h'GdU» 'i bX'Gd]Y`
j YfVi bXYb'k Uf''8cW 'X]Y'd'Öhn`]W Y'K]hYfi b[g'U[Y'ZØ\fhY'XUni ž
XUgg'X]Y'5i Zg]W hgdZ]W h'Xi fW 'X]Y'9'hYfb'cXYf'6Y[`Y]hdYfgcbYb
a Ö[`]W Yfk Y]gY[Y'cW_Yfh'k i fXY" =b'X]YgYa 'A ca Ybh'gW`]W 'g]W
Y]b'HÄhYf'\YfUb'i bX'Ybhk YbXYhY'X]Y'; Y[YbghÄbXYž'X]Y'g]W Yf']W
dYfgÖb`]W Y'8]b[Y'i bX'Gd]Y'nYi ['VY]b\U'hYhYb "

K Yf' _Ubb '\ Y`ZYb 3

8]Y'Öfh]W Y'Dc`nY]' \Uh'Y]bYb'5i Zfi ZUb'X]Y'^2 ZZYbh]W _Y]h
[YghUfhYhž'i a ' <]bk Y]gY'Ui ZXYb'J c fZU``ni 'VY_ca a Yb''8Yf': c_i g
'Y][h'XUVY]' \Ui dhgÄW`]W 'Ui Z'NYi [Ybž'X]Y'j]Y`Y]W h'Y]bYb
j YfXÄW h][Yb'A Ubb'cXYf'Y]bY'j YfXÄW h][Y'DYfgcb'[YgY\Yb
\UVYbž'X]Y'j b'X]Y'Ybhk YbXYhYb'; Y[YbghÄbXY']bj c'j]Yfh'k Uf''8]Y

gWk UfnYb`HUgWYbž`Y]bY`GdcfhUgWY`i bX`Y]b`Fi W_gUW`XYf
A Uf`Y`B`_Yž`g]bX`]b`XYf`6YgWfY]Vi b[`U`g`k`]W]h][Yg`ϕX]n
a Uf`_]Yfh"

8]Y`9fa`]h`Yf`Ui`g`GUfghYXh`V]hYb`U`Y`ž`X]Y`Yhk`Ug`[YgY`Yb`UVYbž
g]W`i`bhYf`XYf`HY`YZcbbi`a`a`Yf`\$)`\$`*`*`-`,`)`\$`ni`a`Y`XYb`"→XYf
<]bk`Y]g`_`ObbhY`Y`ZYbž`XYb`c`XYf`X]Y`H`hYf`ni`]XYbh]Z]n]YfYb`i`bX
X]Y`[Yg]c`YbYb`6Yg]hnh0a`Yf`ni`f0W`ni`Vf]b[Yb`"Gc`WY`5i`Zfi`ZY
g]bX`Yb`hgWY]XYbXž`i`a`XUg`G]WYf`Y]hg[YZ0`Y`]b`XYf
; Ya`Y]bgWUZh`ni`gh`Af`_Yb`i`bX`À`b`]WY`J`cfZ`À`Y`]b`Ni`_i`bZh`ni
j`Yf`Y]bXYfb"

ϕ`Y]bYf`NY]hž`]b`XYf`XUg`0ZZYbh`]WY`@YVYb`k`]YXYf`Zcf]Yfhž`]gh`Yg
k`]W]h][ž`XUgg`9`hYfb`i`bX`5i`Zg]W]hgdYfgcbYb`Y]b`k`UW]gUa`Yg`5i`[Y
Ui`Z`]\fY`K`YfhgUWYb`UVYb`"8]YgY`5fh`j`cb`8]YVghU`_`Ubb`YXYa
dUgg]YfYbž`i`bUV`À`b`[[`]`cb`5`hYf`c`XYf`G]hi`Uh]cb`"8Yf
Dc`]nY]Y]bgUhm`i`bhYfghfY]W]h`X]Y`Xf]b[YbXY`B`chk`YbX][`_]h]j`cb
Yf`À`hYf`K`UW]gUa`_]h]b`]; Ya`Y]bgWUZh`gY]b]W]hi`b[Yb`k`]Y
GWk`]a`a`V`XYfb"

8]Y`Dc`]nY`]gh`Xi`fW`X]Y`GW`]XYfi`b[`XYf`; YgW`À`X][`hYb`Ui`ZY]bYb
a`0`_]WYb`H`hYf`Ui`Za`Yf`_gUa`_`[Yk`cfXYbž`XcW`V`Y]Vh`Yg
UVni`k`UfhYbž`c`V`X]Y`^`ZZYbh`]W`_]h`i`a`]h`Yb`hgWY]XYbXYb
ϕ`Zcfa`Uh]cbYb`Ui`Zk`UfhYh`"8]Y`?`]bXYf`i`bX`]\fY`:`Ua`_]Yb`c`Z`hYbž
XUgg`X]YgYf`J`cfZU`"b]W]h`bi`f`Ui`Z[Y`_`À`fh`k`]fX`ž`gcbXYfb`Ui`W`U`g
K`Ufbg][`bU`Z0f`UbXYfY`:`Ua`_]Yb`X]Yb`hž`k`]Y`k`]W]h][`Yg`]ghž
dYfg0b`]WY`]; Y[Ybgh`À`bXY`g]WYf`ni`]j`Yfk`U`fYbž`gY`Vgh`k`Ybb`a`Ub
g]W]h`Ub`Y]bYa`gWY]bVUf`i`bVYgWk`YfhYb`C`fh`VY]Z]bXYh"

8YhU]`g

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