

: f]YXf]WX 'A Yfn. '8 Yf'j Yfnk Y]ZY`hY'? Ua dZ i a 'X]Y'? Ubn`Yf_UbX]XUhi f

8 Yf 78 I !J cfg]hnYbXY: f]YXf]WX A Yfn \ Uhrg]WX]b Y]bYa \ \@b[ghYb \ \diphYfj]Yk \ Ui Z GUh"% \ XYf : fU[Y bUWX gY]bYf F c \ Y]a \ F YbbYb i a \ X]Y \ ? Ubn \ Yf_UbX]XUhi f [YghY \ h" \ \dip \ 5b[Yg]WX h \ XYf \ VYj cfghY \ YbXYb \ @UbXhU[gk U\ Yb]b \ H\ Øf]b[Yb \ Z GUWX gYb i bX 6fUbXYbVi f[]gh \ XYf \ 8fi \ W_ \ Ui Z]\ b \ [Yk UWX gYb \ Z \ VYgcbXYfg]a \ J Yf[\ Y]WX \ ni \ 7GI ! 7\ YZ \ A Uf_i g \ G\ OXYf" \ 8]Y \ DUfhY]Yb \ a \ ØggYb \ Y]bY \ 9b \ hgWX Y]Xi b[\ hfYZZYb \ Z \ i bX \ A Yfn \ VYhfUWX hYh \ X]Y \ A Y]bi b[Yb \ XYf K \ A\ Yf \ U \ g \ Yb \ hgWX Y]XYbX"

#D 'XYf'VYj cfghY\YbXYb'NY]h'a ØggYb'g]W\ 'X]Y'I b]cb'i bX
]bgVYgcbXYfY'A Yfn'Ui Z'Y]bY'XYf'\YfUi gZcfXYfbXghYb'D\UgYb']\fYf
dc`]h]gW\Yb'? Uff]YfY'Y]bghY``Yb"'8Yf'78I !7\YZ'\Uh'VYhcbhž'XUgg
X]Y'9bhgW\Y]Xi b['ØVYf'X]Y'_Ubn`Yf_UbX]XUhi f'b]W\h'j cb'XYb
K U\`fYgi `hUhYb']b'XYb'XfY]'cghXYi hgW\Yb'@\bXYfb'UV\\\ \ablab[hž'Y]bY
5i ggU[Yž'X]Y'a i h]['YfgW\Y]bhž'ni a U`'X]YgY'K U\`Yb'Y]bYb
Yf\YV']W\Yb'9]bZi gg'Ui Z'XUg'dc`]h]gW\Y'?`]a U']a '@UbX'\UVYb_\
_\ObbhYb"

$6Y^{Y}$

8]Y I a ZfU[YYf[YVb]ggY XYf 7]j Yml a ZfU[Y gdfYW Yb Y]bY '_`UfY GdfUW Y. 'Nk Y] '8 f]hhY` XYf '6 YZfU[hYb 'gY\Yb 'A Yfn 'b]W h'U`g XYb [YY][bYhghYb '? Ubn`Yf_UbX]XUhYb 'XYf I b]cb" 'A Yfn 'ghY\h'XUa]h']b Y]bYf ']bhYf YggUbhYb 'Dcg]h]cbž]b 'XYf 'X]Y 'ÒZZYbh`]W Y K U\fbY\a i b['gY]bYg '7 \Uf]ga Ug 'i bX 'Y]bYf 'gc`]XYb

 $FY[\]Yfib[\ gZ\emptyset\backslash fib[\ 'ibUi\ g[\ Y[\ `]W\&Yb'Ui\ gg]Y\backslash h'''5i\ Z'X]Y'':fU[\ Yž'cVYf'Ub'XYb'I a\ ZfU[\ YXUhYb'nk\ Y]ZY`hž'Ybh[\ Y[\ bYhY'Yfž'XUgg'Yg']b'XYfDc`]h]_'gY`hYb'Y]bY'ib[\ YhY]`hY'Nigh]aaib['[\]Vh'''8]Y'@YihY'g]bXcZh'Zfighf]Yfh'XUfØVYfž'k]Y'k]f'Dc`]h]_Yf'@Ògib[Yb'UbV]YhYb žYf_`ÀfhY'Yf''$

#bgVYgcbXYfY`]b`H\Øf]b[Ybžk c`6cXc`FUa Y`ck j cb`XYf
@]b_gdUfhY]'a]h`ghUf_`g]b_YbXYb`Ni gh]a a i b[gk YfhYb`_Aa dZhž
g]Y\h`A Yfn`Y]bY`DUfU``Y`Y`ni `gY]bYf`Y][YbYb`G]hi Uh]cb"'9f`\cV
\Yfj cfž'XUgg`FUa Y`ck `hfchn`Y]bYf`\c\Yb`Ni gh]a a i b[gfUhY
gY]bYf`DYfgcb`bi f`%) `DfcnYbh`XYf`K A\`Yf`ZØf`gY]bY`DUfhY]
[Yk]bbYb`_Ubb"`A Yfn`a Y]bhY`XUni .` DYfgÒb`]W\Y
6Y`]YVh\Y]hgk YfhY`gU[Yb`[Uf`b]W\hg`XUfØVYf`Ui gž`k]Y`XUg`K U\`!
9f[YVb]g`UbgW\`]Y» YbX`gY]b`k]fX" `8]YgYf`; YXUb_Yb[Ub[`_ÒbbhY
gck c\``X]Y`Y][YbY`, VYfnYi[i b[`A Yfn`k]XYfgd]Y[Y`b`U`g`Ui W\
XYb`8fi W_`a]bXYfbž'XYf`]\a 'j cb`gY]bYb`?f]h]_Yf.]bbYb`Ui g[YØVh
k]fX"

CV[`Y]WX 'Yf'XUa]h'j Yfgi WX Yb'a ÒWX hYž'gY]bY'G]hi Uh]cb'ni fY`Uh]j]YfYbž']gh'Yg'Y]b'gWXa U`Yf'; fUhž'Ui Z'XYa 'Yf'g]WX 'VYk Y[h" A Yfn 'J Yf[`Y]WX'ni 'F Ua Y`ck 'YfZc`[h']b'Y]bYa '?`]a U'[YZØ\`hYf I bg]WX Yf\Y]h'i bX'k]fX'a Ò[`]WX Yfk Y]gY'j cb'XYf'Y][YbYb'DUfhY] b]WX h']XYb[Yf]Yfh"'J]Y`Yb']b'XYf'I b]cb'a UWX h'Yg'Gcf[Ybž'XUgg A Yfn'VY]'XYb'6Øf[Yfb'b]WX h'XYb'[`Y]WX Yb'FØW_\U`h'[Yb]Y» h'k]Y gY]bY'F]j U`Yb"

9fZU\fi b[Yb'gUa a Y`b'i bX'j cfk Àfhg gWX Ui Yb

8 Ugʻ = hYfj]Yk 'Ybh\Ø``hY 'ni XYa 'X]Y : fU[Y'bUW\ XYf'EiU`]Z]_Uh]cb j cb 'A Yfn']a 'J Yf[`Y]W\ 'ni 'GÒXYf" 5 i Z'X]Y '6Ya Yf_i b['XYf A cXYfUhcfYbž'XUggʻGÒXYfž']a '; Y[YbgUhn'ni ']\a ž'ØVYf FY[]Yfi b[gYfZU\fi b['j YfZØ[Yž'k]W\ 'A Yfn'U``YfX]b[g'Yhk UgʻUi g"'9f VYhcbhY'gY]bY 'ZUgh'&)! 'À\f][Y'dc`]h]gW\Y'? Uff]YfY'gck]Y'gY]bY 9fZU\fi b[Yb']b'XYf'Df]j Uhk]fhgW\UZh'' K]f'\UVYb'i bhYfgW\]YX`]W\Y DfcZ]`Yž'UVYf']W\ '[`Ui VYž'k]f'_ObbhYb'XUgʻVY]XY ž'gU[hY'A Yfnž'k Ug j]Y``Y]W\h'XYb'9]bXfi W_'\]bhYf`Àgghž'XUggʻYf'g]W\ 'b]W\h'U`g a]bXYfk Yfh]['g]Y\hž'ni a]bXYgh'b]W\h']b'XYf'<]bg]W\h'Ui Z'X]Y

5 `g`X]Y`A cXYfUhcfYb`]\b`Ui Z`X]Y`i bhYf\U`hYbXY`GY]hY`XYf`Dc`]h]_
UbgdfUW\Ybž`]bgVYgcbXYfY`ØVYf`GÒXYfg`5i Zhf]hhY`]b

j YfgW\]YXYbYb`: cfa UhYbž`nY][hY`A Yfn`g]W\`g_Ydh]gW\"` G]b[Yb`ni
_`ObbYb`U``Y]b`]gh`_Y]bY`E i U`]Z]_Uh]cbž`UVYf`Yg`gW\UXYh`Ui W\
b]W\h ž`VYhcbhY`Yfž`k Ug`Y]b`[Yk]ggYg`A U»`Ub`FYgdY_h`j cf`XYb
: À\][_Y]hYb`gY]bYg`? cbhfU\YbhYb`i bi a k i bXYb`nY][hž`XcW\`Ui W\
X]Y`6YZØfW\hi b[ž`XUgg`GÒXYf`ØVYf`X]YgY`Dcdi`Uf]hÀh`ni a
VYghY\YbXYb`9]bZi qg`bcW\`\]bni ZØ[Yb`_ObbhY"

8]Y 78I 'VYZ]bXYh'g]W\ 'Ub'Y]bYa '_f]h]gW\Yb'K YbXYdi b_hž'XYf b]W\h'bi f'X]Y 'VY]XYb'DUfhY]W\YZg']a 'F Ua dYb`]W\h'ghY\Yb'`Àgghž gcbXYfb'Ui W\': fU[Yb'ni f'Ni _i bZh'XYf'XYi hgW\Yb'Dc`]h]_'Ui Zk]fZh" Ni gUa a Yb'a]h'XYf'Ni bU\a Y'dc`]h]gW\Yf'I bg]W\Yf\Y]hYbž'k]Y'g]Y]b'XYb'UbghY\YbXYb'K U\`Yb'ni 'VYcVUW\hYb'gY]b'k YfXYbž'V`Y]Vh UVni k UfhYbž'k Yf'`Yhnh`]W\'U`g'X]Y'ghÀf_YfY':][i f'Ui g'X]YgYf F]j U`]hÀh'\Yfj cf[Y\h"

9]b 'K Yhh`Ui Z'[Y[Yb 'X]Y 'NY]h'i b X 'X]Y A Y]bi b[Yb

8]Y'_ca a YbXYb'K cWXYb'k YfXYb'YbhgWXY]XYbX'gY]b"'A Yfn'k]fX
g]WX'b]WXh'bi f']a '<]bV`]W_'Ui Z'gY]bY'dYfgÒb`]WXY'6Y`]YVh\Y]h
VYk Y]gYb'a ØggYbž'gcbXYfb'Ui WXž'cV'Yf'X]Y'I bhYfghØhni b[
]bbYf\U`V'gY]bYf'Y][YbYb'DUfhY]'gck]Y'XYf'K À\`YfgWXUZh
[Yk]bbYb'_Ubb"'9g']gh'Y]b'K Yhh'Ui Z'[Y[Yb'X]Y'NY]h'i bX'[Y[Yb'X]Y
j]Y'Yb'A Y]bi b[Yb'XYf'A YbgWXYbž'X]Y'b]WXh'bi f'ØVYf']\bž'gcbXYfb
Ui WX'ØVYf'X]Y'78I 'bUWXXYb_Yb"'A Yfn': À\][_Y]hž'X]Y'?f]h]_'i bX
X]Y'XUfUi g'fYgi `h]YfYbXYb': `Ø[Y`_Àa dZY'ni 'bUj][]YfYbž'k]fX'XYb
I a [Ub['a]h'XYa '8fi W_'XYf'VYj cfghY\YbXYb'K U\`Yb'[YbUi gc
dfÀ[Yb'k]Y'X]Y'ghfUhY[]gWXY', VYf`Y[i b['ni f'?!: fU[Yž'X]Y'Ui Z'XYf
HU[YgcfXbi b['ghY\h'"

$Dc^{h}gWXYFU\a YbVYX]b[ib[Yb]$

 $8\,]Y\,'d\,c\,`]h]gWX\,Y\,'@Ub\,XgWX\,UZh\,'8\,Yi\,hgWX\,`Ub\,Xg\,'Y\,f\,`Y\,V\,h\,'XY\,fnY\,]h\,'a\,\,Uf_Ub\,hY$

J YfÀbXYfi b[Yb"8]Y I b]cbžVYghY\YbX'Ui g'781 ii bX'7GI žighY\h j cfYbhgW\Y]XYbXYb'K U\Yb']b'XYb'cghXYi hgW\Yb'6i bXYg`ÀbXYfb H\Øf]b[Ybž'GUW\gYb'i bX'6fUbXYbVi f["8]YgY'K U\`[Àb[Y'Z]bXYb b]W\h'bi f']a '?cbhYl h'`c_U'Yf'Dc`]h]_ž'gcbXYfb'Ui W\']b'Y]bYf Ub[YgdUbbhYb'bUh]cbU'Yb'5ha cgd\AfY'ghUhhž']b'XYf'X]Y'5Z8 fb`hYfbUh]j Y'ZØf'8Yi hgW\`UbXŁ'a Yf_']W\Y'Gh]a a Yb[Yk]bbY j YfnY]W\bYh"'8]Y'78I 'a i gg'g]W\'UbghfYb[Ybž'i a ']\fY K À\`YfgW\UZh'ni fØW_ni [Yk]bbYb'i bX']\fY'Dcg]h]cb']a 'dc`]h]gW\Yb GdY_hfi a 'ni 'ZYgh][Yb"'<]ghcf]gW\'[YgY\Yb']ghx]Y'I b]cb hfUX]h]cbY``X]Y'ghAf_ghY'?fUZh']b'XYb'Y\Ya U`][Yb K YghVi bXYg`AbXYfbž'k À\fYbX'X]Y'CghVi bXYg`AbXYfY]bY'UbXYfY dc`]h]gW\Y'8 mbUa]_'Ui Zk Y]gYbž'X]Y'j cb'@]b_Yb'i bX'5Z8'[YdfÀ[h]gh"

8]Y`F]j U`]hÀh`nk]gWXYb`A Yfn`i bX`GÒXYf`gd]Y[Y`h`b]WXh`bi f dYfgÒb`]WXY`5a V]h]cbYb`k]XYfž'gcbXYfb`Ui WX`X]Y`ghfUhY[]gWXYb , VYf`Y[i b[Yb`XYf`I b]cbž'k]Y`g]Y`]\fY`K À\`YfVUg]g`]a `[YgUa hYb 6i bXYg[YV]Yh`UbgdfYWXYb`_Ubb"`5b[Yg]WXhg`XYf`VYj cfghY\YbXYb 6i bXYghU[gk U\``&\$&)`_ObbhY`XYf`5i g[Ub[`X]YgYf @UbXhU[gk U\`Yb`YbhgWXY]XYbXYb`9]bZi gg`Ui Z`X]Y?Ubn`Yf_UbX]XUhi f`\UVYb`i bX`j]Y``Y]WXh`gc[Uf`XYb`ni _ØbZh][Yb?i fg`XYf`I b]cb`VYgh]a a Yb"

la ZfU[YbibX]\fY6YXYihib[

Ni gÀhn`]WX 'ni f'l a ZfU[Y'j cb'7]j Ym'nY][h'Y]bY'l a ZfU[Y'j cb Mci; cj ž'XUgg') & DfcnYbh'XYf'6YZfU[hYb'Y]bY'l bni Zf]YXYb\Y]h'a]h XYf'U_hi Y``Yb'dc`]h]gW\Yb'@U[Y']b'8Yi hgW\`UbX'Ya dZ]bXYb"'Gc`W\Y
NU\`Yb'k YfZYb'Y]b'GW\`U[`]W\h'Ui Z'XYb'VfY]hYfYb'?cbhYl h'XYf
dc`]h]gW\Yb'I bfi \Y'i bX'X]Y'XUa]h'j YfVi bXYbY'I bg]W\Yf\Y]h
gck c\``ZØf'X]Y'K À\`Yf'U`g'Ui W\'ZØf'X]Y'DUfhY]Yb"'8]Y'I b]cb'a i gg
GhfUhY[]Yb'Ybhk]W_Y`bž'i a 'XUg'J YfhfUi Yb'XYf'K À\`Yf
ni fØW_ni [Yk]bbYb'i bX']\fY'; `Ui Vk ØfX][_Y]h'ni 'ghÀf_Yb"

$JYf[Ub[Yb\Y]h'ibX'dc`]h]gWXY'8mbUa]_$

8 Yf'K YhhVYk YfV'nk]gWXYb'A Yfn'i bX'GÒXYf'Yf]bbYfh'Ub'ZfØ\YfY]bhYfbY'?cbZ]_hY']bbYf\U'V'XYf'I b]cbž']bgVYgcbXYfY'X]Y 5i gY]bUbXYfgYhni b[Yb'nk]gWXYb'5b[Y`U'A Yf_Y`i bX']\fYb < YfUi gZcfXYfYfb"'K À\fYbX'A Yf_Y`g': Ø\fi b['cZha U`g'j cb ?cbgYbg'i bX'a cXYfUhYb'Dcg]h]cbYb'[YdfÀ[h'k Ufž'_ÒbbhYb'A Yfn i bX'GÒXYf'X]Y'DUfhY]']b'Y]bY'F]WXhi b['XfÀb[Ybž'X]Y'Y\Yf'Ui Z'_`UfY Dcg]h]cb]Yfi b[Yb'i bX'a Ò[`]WXYfk Y]gY'Y]bY'ghÀf_YfY'Dc`Uf]g]Yfi b[UVn]Y`h"

9]b 6Y]gd]Y`XUZØf]ghX]Y 5i gY]bUbXYfgYhni b[ii a 'X]Y
: `ØWX h`]b[gdc`]h]_žX]Y k À\fYbX A Yf_Y`g'? Ubn`YfgWX UZh`ni
[fUj]YfYbXYb GdUbbi b[Yb ']bbYf\U`V XYf'DUfhY] ZØ\fhY" 8 Yf
dc`]h]gWX Y 8 fi W_ j cb 'fYWX hgž']bgVYgcbXYfY Xi fWX 'X]Y 5 Z8 ž a UWX hY
Yg 'ZØf'X]Y '78 I 'bchk YbX][ž'Y]bY'_`UfY 'Dcg]h]cb 'ni 'VYn]Y\Ybž'k Ug
ni ']bhYfbYb 'GdUbbi b[Yb 'ZØ\fhY'i bX'gWX`]Y»`]WX 'X]Y
: Ø\fi b[ggd]Y`Yf'XYf'DUfhY] 'gdU`hYhY'' 8]YgY '9f]bbYfi b[Yb'_ObbhYb
Ui WX 'XYb'U_hi Y``Yb'?cbZ]_h`nk]gWXYb'A Yfn'i bX'GÒXYf
VYY]bZi ggYbž'XU'X]Y I b]cb'j Yfgi WX hž'Y]bY'6U`UbWY'nk]gWXYb
hfUX]h]cbY``Yb'K YfhYb'i bX'XYf'5bdUggi b['Ub'a cXYfbY
<YfUi gZcfXYfi b[Yb'ni 'Z]bXYb"

8 Y hU]`g