

J]YhbUa Yg]gWX!WX]bYg]gWXY : fYi bXgWXUZh. 8]Y 'FchY FY]gY 'VY[]bbh°

 $\label{eq:continuous} J] Y h b U a "i b X ' 7 \] b U ' Z Y] Y f b ' +) ` & U \ f Y ` X] d ` c a U h] g W \ Y f \\ 6 Y n] Y \ \ i b [Y b ' a] h ` X Y f ` F c h Y b ` F Y] g Y ` X Y f ` : f Y i b X g W \ U Z h `] b \\ ; i U b [I] ž ` U V ` A U] ` & $ \& $) "$



=a `FU\a Yb`XYf`: Y]Yf`]W_Y]hYb`k i fXY`X]Y` FchY`FY]gY`XYf

: fYi bXgW\UZh`J]YhbUa ```7\]bU']b`; i Ub[I] `j cf[YghY``h'': fUi `@Ua

@Ua ž`X]Y`ghY``j YfhfYhYbXY`GY_fYhÀf]b`XYg`DUfhY]_ca]hYYg`i bX

ghY``j YfhfYhYbXY`8]fY_hcf]b`XYg`A]b]ghYf]i a gʻZØf`?i `hi f`i bX

Hci f]ga i gʻj cb`; i Ub[I]ž`ZØ\fhY`]b`X]Y`H\Ya Uh]_'Y]b`i bX`VYhcbhY

X]Y`6YXYi hi b[`XYf`\]ghcf]gW\Yb`FY`]_hYž`X]Y`X]Y`fYj c`i h]cbÀfY

9f]bbYfi b[`Ub`XYb`[Ya Y]bgUa Yb`?Ua dZ`VY]XYf`BUh]cbYb

k]XYfgd]Y[Y`b"`9g`k i fXYb`%' `gc`W\Y`FY`]_hY`]XYbh]Z]n]Yfhž`X]Y

VYgcbXYfY`9fk À\bi b[`j YfX]YbYbž`k À\fYbX`X]Y`FY]gY`Ui W\`gYW\g

h\Ya Uh]gW\Y`Hci fYb`i a ZUgghž`X]Y`g]W\`Ui Z`X]Y`j YfgW\]YXYbYb

6YXØfZb]ggY`XYf`HY]`bY\a Yf`_cbnYbhf]YfYb"

?i`hifY``Y'JYfh]YZib[ibXHcif]gaigZÒfXYfib[

8]YgY = h]h]Uh]j Y n]Y h]bgVYgcbXYfY XUfUi Z'UVžA]h[`]YXYf'XYf
j]YhbUa Yg]gWXYb DUfhY] i bX ' h b[Y A YbgWXYb Ubni gdfYWXYb "8]Y
Hci f gc ``XUni VY]hfU[YbžX]Y ; YgWX]WX hY ni a @YVYb ni Yfk YW_Yb
i bX]bhYbg]j Yb '9f`YVb]ghci f]ga i g ni V]YhYb ": fUi 'B[i mYb
D\i cb['< cUž8]fY_hcf]b 'XYf'5VhY] i b['ZØf']bhYfbUh]cbU`Y
Ni gUa a YbUfVY]hž\cV'X]Y _i `hi fY``Y = XYbh]hÀhi bX'X]Y '? ØWXY
; i Ub[I]g \Yfj cf" 8]Y F ci hY ' 5i Z'XYb 'Gdi fYb 'j cb 'DfÀg]XYbh' < c
7\] A]b\ 'fYdfÀgYbh]Yfh'gma Vc`]gWX 'XYb'\]ghcf]gWXYb'i bX
_i `hi fY``Yb'Hci f]ga i g i bX'V]YhYh'XYb'HY]`bY\a Yfb'k Yfhj c``Y
9]bV`]W_Y"

Ni gàhn`]W\ k]fX`Y]b`_i `hi fY``Yg`5i ghUi gW\dfc[fUa a `gck]Y`Y]bY Hci f]ga i gY]bZØ\fi b[ii bhYf`XYa `H]hY`` K cf`X`< Ufa cb]ci g`HYU`B\U`HUd`&\$&) `j YfUbghU`hYh"`8Yf`W\]bYg]gW\Y`6chgW\UZhYf`]b

J]YhbUa ž'<Yff'<U`J mži bhYfghf]W\`X]Y``Ub['À\f][Y`: fYi bXgW\UZh nk]gW\Yb`VY]XYb`@\AbXYfbž`X]Y`]b``YhnhYf`NY]h`Xi fW\`Y]bYb
g][b]Z]_UbhYb`5bgh]Y[`XYg`Hci f]ga i g`g]W\hVUf`k]fX.; i Ub[I]

VY[fØ» hY`]b`XYb`YfghYb`ZØbZA cbUhYb`XYg`\J\fYg`&\$&) `VYfY]hg
(%", \$\$`6Ygi W\Yf`Ui g`J]YhbUa ž`k Ug`Y]bYa `5bgh]Y['j cb`, , i `]a
J Yf[`Y]W\`ni a `J cf'U\f`Ybhgdf]W\h"

9fZc`[Y]a 5i ghUi gWX i bX [Ya Y]bgUa Yb

G]WXYf\Y]hgVYa Ø\i b[Yb

8 Yf '9fZc`['XYf'X]d`ca Uh]gWX Yb '6Ya Ø\i b[Yb 'k]fX 'Ui WX 'Xi fWX 'XYb - "'J] h'B Ua !7\]bU'6cfXYf'8 YZYbgY': f]YbXg\]d '9I WX Ub[Y VYghÀh][h'' @Ui h'XYa 'ghY``j YfhfYhYbXYb 'A]b]ghYf'ZØf'bUh]cbU`Y JYfhY]X][i b[ž'; YbYfU``Yi hbUbh'<c¼b['Li ¾b '7\] bž'k Uf'X]Y JYfUbghU`hi b[ž'X]Y'j ca '%* "'V]g'%+ "'5df]``&\$&) ']b'XYf'Dfcj]bn'@ b[G b']b'J]YhbUa 'i bX'XYf'; i Ub[I]'N\i Ub['5i hcbca Yb'FY[]cb']b 7\]bU'ghUhhZUbXž'gY\f'YfZc`[fY]WX "'8]YgY'JYfUbghU`hi b['ZUbX'_i fn bUWX'XYa 'GhUUhgVYgi WX'j cb'L]' |bd]b[']b'J]YhbUa 'ghUhhi bX a Uf_]YfhY'XUg'+)!'À\f][Y'6YghY\Yb'X]d`ca Uh]gWXYf'6Yn]Y\i b[Yb nk]gWXYb'VY]XYb'@AbXYfb"

8]Y [Ya Y]bgUa Y JYfUbghU`hi b[ii a ZUgghY 6Ygi WXY'j cb; fYbna UbU[Ya YbhY]b\Y]hYbž'GWXi `Yb 'gck]Y 'X]Y JYfhY]`i b['j cb; YgWXYb_Yb 'Ub 'GWX Ø`Yf" 8]Y 'HY]`bY\a Yf'\UhhYb 'X]Y ; Y`Y[Yb\Y]hž Y]b 'A cXY```Y]bYg']bhY``][YbhYb'; fYbnhcfg'ni 'VYg]WXh][Yb'i bX: fYi bXgWX UZhgVÀi a Y'ni 'dZUbnYb" '9fgha U`g'VYk UWXhYb'X]Y VY]XYb'A]b]ghYf'Y]bYb'@jj Y!6Yf]WXh'XYf'A Uf]bYZchhYb'VY]XYf @ÀbXYfž'i a 'X]Y 'Ni gUa a YbUfVY]h']b'6Yni ['Ui Z'[Ya Y]bgUa Y DUhfci]``Yb'ni 'ghÀf_Yb" 8]Y'bYi Yb'5gdY_hY'XYg'5i ghUi gWXg k i fXYb'YVYbZU``g'\Yfj cf[Y\cVYbž'XUfi bhYf'X]Y'9fk Y]hYfi b['j cb I a ZUb['i bX': cfa 'gck]Y'Y]bY'J]Y`nU\``j cb'5_h]j]hÀhYb"

±g[YgUa higd]Y[Y`b'X]YgY'Dfc[fUa a Y'X]Y'dfcU_h]j Yb 6Ya Ø\i b[Yb'XYf'VY]XYb'@ÀbXYf'k]XYfž'Y]bY'i a ZUggYbXY ghfUhY[]gW\Y'?ccdYfUh]cbgdUfhbYfgW\UZh'Ui Zni VUi Yb'i bX']\fY [Ya Y]bqUa Y'Ni _i bZh'ni 'ghÀf_Yb"

8 YhU]`g	
Cfh	@ b[˙G bž˙J]YhbUa
EiY``Yb	• k k k "j]Y hb Ua "j b
	• j]YhbUa bYk g"j b