

A ObWXYb[`UXVUWXg'X][]hU`Yg Ni _i bZhg`UVcf.'K cf_g\cdg'ZØf'U``Y ; YbYfUh]cbYb°

A ÒbW\Yb[`UXVUW\`YfÒZZbYh'Ua '&("'≯b]'&\$&) 'XUg ghUXh`UVcf"a ['ZØf'X][]hU`Y'6]`Xi b['i bX'6Øf[YfVYhY]`][i b[]a 'FU\a Yb'XYf'Ga Ufh!7]hm!GhfUhY[]Y"



A Òb W Yb [`UXVUW ž'8 Yi hg W `Ub X ! '8 Yf X][]hU`Y : cfhg W f]hhi]b XYf GhUXhj Yfk U`hi b ['b]a a hi]b A Òb W Yb [`UXVUW : cfa Yb 'Ub . '5a & ("' * b] * & * &) 'k]fX 'X Ug 'ghUXh` UV cf"a ['ZY]Yf`]W 'Yf Ò ZZb Yh'' 8]Y g Y g]b b c j Uh]j Y '7]h]n Yb '@ UV ']gh 'b] W hibi f 'Y]b 'k]W h][Yf '6 Ui gh Y]b 'X Yf Ga Ufh! 7]hm! Ghf Uh Y []Y 'X Yf 'GhUXh ž' g c b X Yfb 'Z ÒfX Yfh 'Ui W 'X][]h U`Y 6] `Xi b ['gck]Y 'X]Y '6 Yh Y]`][i b ['X Yf '6 Øf [Yf]b b Yb 'i b X '6 Øf [Yf 'Ub U_hi Y``Yb': cfg W i b [gh Ya Yb'' K]Y _ca a i b Y & W "XY 'V Yf] W h Yh ž k]fX 'X Ug 'gh UXh` UV cf"a ['U`g 'HY]` 'Y]b Y g ']b h Yf_ca a i b U`Yb 'D f c Y_hg ž X Ya 'Gh UXh` UV cf &; c ž ']b '? c c d Yf Uh]cb 'a]h 'K]Y g V UX Y b 'i b X 'X Ya 7]hm @ 56 '6 Yf`]b 'i a [Yg Yhnh''

8]Y '9fÒZZbi b[gZY]Yf'k]fX']a 'F U\a Yb'XYf'A ÒbW\Yb[`UXVUW\Yf
8][]hU`k cW\Y'ghUhhZ]bXYbž'X]Y']bg[YgUa h') ('JYfUbghU`hi b[Yb'ni f
8][]hU`]g]Yfi b['i a ZUggh" 8 Ug'Dfc[fUa a 'g]Y\h'nk Y]'gdUbbYbXY
K cf_g\cdg'j cf. '?]bXYf'i bX' *> [YbX`]W\Y'UV' %& *> J\fYb'_ObbYb']a
YfghYb'K cf_g\cd'GYbgcf[YfAhY'ni f'A Yggi b['j cb'HYa dYfUhi f
i bX'@ ZhZYi W\h][_Y]h'VUi Ybž'k À\fYbX'9fk UW\gYbY
I a k Y`ha YggghUh]cbYb'_cbghfi]YfYb'i bX'Y]bZUW\Y
Dfc[fUa a]Yfi b[Yb'Xi fW\ZØ\fYb'_ObbYb" 8]Y'9f[YVb]ggY'X]YgYf
_fYUh]j Yb'5_h]j]hÀhYb'k YfXYb']b'Y]bYa 'Dcd!i d!G\ck fcca
k À\fYbX'XYf'9fOZZbi b[gZY]Yf'j cf[YghY``h"

Bi hnYfnYbhf]YfhY'8][]hU`]g]Yfi b[

8]Y = h]h]Uh]j Y ni f 9fòZZbi b[XYgʻghUXhʻUVcfʻa [']ghʻHY]ʻY]bYg [fò» YfYbʻ6YghfYVYbgžk Y`WXYgʻX]YʻGhÀXhYʻA ÒbWXYb[`UXVUWXʻi bX K]YgVUXYbʻj YfY]bhʻʻK]Y Ui Zʻ<mark>Y[cj Yfba YbhʻXY</mark>ʻYf`Ài hYfhʻk]fXž n]YʻhʻXUgʻ?ccdYfUh]cbgdfc Y_hʻGhUXhʻUVcf&; cʻXUfUi ZʻUVžʻX]Y X][]hUʻYʻHfUbgZcfa Uh]cbʻXYfʻJ Yfk Uʻhi b['[Ya Y]bgUa ʻa]hʻXYb 6Øf[Yf]bbYbʻi bXʻ6Øf[Yfbʻni '[YghUʻhYbʻ'?]fUʻH]``a Ubbž Dfc[fUa a `Y]hi b['Ga Ufhʻ7]hmʻ]bʻA ÒbWXYb[`UXVUWXžʻ\YVhʻXYb k Yfhj c``Ybʻ5i ghUi gWXʻnk]gWXYbʻXYbʻ?ca a i bYbʻ\Yfj cfžk À\fYbX CVYfVØf[Yfa Y]ghYfʻ: Y`]l '<Y]bf]WXgʻX]Yʻ6YXYi hi b['XYf 8][]hU`]g]Yfi b['ZØfʻX]YʻA YbgWXYbʻj cfʻCfhʻVYhcbh'

 $= a \cdot ghUXh`UVcf"a [\cdot gc```XYb`6Øf[Yfb`X]Y`A O[`]WX_Y]h`[Y[YVYb k YfXYbž'U_h]j \cdot Ub`XYf`9fghY``i b[\cdot i bX`HYghi b[\cdot X][]hU`Yf`@Ogi b[Yb a]hni k]f_Yb"`8]Yg`i a ZUggh`Ui W\`X]Y`9bhk]W_`i b[\tixYf`[Yd`UbhYb A ObW\Yb[`UXVUW\!5ddž'XYfYb': i b_h]cbYb`VYfY]hg`]b`Y]bYf`6YhU! D\UgY`j cb`XYb`Bi hnYfb`a]h[YghU`hYh`k YfXYb`_ObbYb"`8]Y HYW\\bc`c[]Ygh]Zhi b[\ti6Yf`]b`i bhYfghØhnh`X]Y`GhUXh`XUVY]ž]bhYfYggUbhY`6YhY]`][i b[gZcfa UhY`ni \tigW\UZZYbž'X]Y`Ui W\'j cb UbXYfYb`Gh\XhYb`ØVYfbca a Yb`k YfXYb`_ObbYb"$

Ga Ufh 7]hm 9]b [`cVU`Yg D\ Abca Yb

8 c WX 'b] WX h'bi f']b'8 Yi hg WX `Ub X'V Y g WX À Zh][h'a Ub'g] WX 'a]h'X Y f

\$\delta \text{hY}[fUh]cb'X][]hU`Yf'@Ogi b[Yb']a 'i fV Ub Y b'F Ui a "'@Ui h'

\$\dfc^Y_hhfUY[Yf"X`f"XY'gYhnYb'Gh\delta XhY'k Y`hk Y]h'Ui Z'X][]hU`Y

HYWkbc`c[]Yb`ni f'JYfVYggYfi b['XYf'@YVYbgei U`]hÀhi]\fYf'6Øf[Yf" CV'AcV]`]hÀhž'6]`Xi b['cXYf'i a k Y`hZfYi bX`]WkY'@Ògi b[Yb` 'X]Y JYf_bØdZi b['jcb'X][]hU`Yf'i bX'UbU`c[Yf'K Y`h'gd]Y`h'Y]bY YbhgWkY]XYbXY'Fc``Y''8Yf'9]bVYni ['U``Yf'6Øf[Yf']b'X]Y 9bhk]W_`i b['X]YgYf'Ni _i bZhgj]g]cbYb']gh'k]Wkh][ži a 'Y]b bUWk\U`h][Yg'i bX'_Ua YfUXgWkUZh`]WkYg'GhUXh`YVYb'ni [Yk À\f`Y]ghYb"

A]h'XYa 'ghUXh`UVcf"a [']b'A ÒbWXYb[`UXVUWX'i bX'À\b`]WXYb \pm b]h]Uh]j Yb'nY][h'g]WX ž'XUgg'X]Y'GhÀXhY'b]WX h'U`g'; Yhf]YVYbYž gcbXYfb'U`g'U_h]j Y'; YghU`hYf']\fYf'X][]hU`Yb'9bhk]W_`i b[Ui ZhfYhYb"'8 Ug'N]Y`']gh'_`Uf. '9]bY'6U`UbWY'nk]gWXYb'ÒZZYbh`]WXYb \pm bhYfYggYb'i bX'i bhYfbY\a Yf]gWXYb'5bgdfØWXYb'ni 'Z]bXYbž'i a X]Y'_ca a i bU`Y'9bhk]W_`i b['YZZY_h]j 'j cfUbni hfY]VYb"'K]f'XØfZYb [YgdUbbh'gY]bž'k Y`WXY'gdUbbYbXYb'Dfc'Y_hY'i bX'@Ògi b[Yb'Ui g X]YgYa '6Øf[Yf`UVcf'\Yfj cf[Y\Yb'k YfXYb'

8 Y hU]`g	
Cfh	A ÒbWXYb[`UXVUWXž8Yi hgWX`UbX
EiY``Yb	• k k k "_ca a i bY&%"XY
	k k k "Y[cj Yfba Ybh"XY
	dfc /Y_hhfUY[Yf"X`f"XY

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