

8 c b U i k Òfh\.; Y\Y]a h]ddg $\mathbb{Z}\emptyset$ f =\fYb b À W ghYb HfU i a i f`U i V YbhXYW_Yb°

9bhXYW_Yb'G]Y'8cbUik Òfh\.'\]ghcf]gW\Y GY\Ybgk ØfX][_Y]hYbžhcif]gh]gW\Y'5b[YVchY'ibX 5bfY]gYa Ò[`]W_Y]hYb'nk]gW\Yb'8cbUi'ibX'K Òfb]hn"



FUh\ Ui g[UggY '%ž', ** \$- '8 c b Ui k Òfh\ ž'8 Yi hgW\ `Ub X'!

8 c b Ui k Òfh\ ž'Y]b 'W\ Ufa Ub hYg 'GhÀ XhW\ Yb 'Ua 'Ni gUa a Yb Zi gg'j c b

8 c b Ui 'i b X' K Òfb]hn ']b '6 UmY fb! GW\ k UV Yb ž'k]f X' j c b 'gY]b Y b

9]bk c\bYfi]bb Yb 'U`g'Y]b Y' k U\fY' < Y]a Uh' k U\f[Ybca a Yb"'8]Y

GhUXh'V]YhYh'Y]b Y' J]Y`nU\`'j c b '5 hhfU_h]c b Yb ž' XUfi b hYf' X]Y' VY`YVhY

FY]W\ gghfU\s Y ž' XUg'\]ghcf]gW\Y'? `cghYf' < Y]`]['? fYi n 'i b X

a U`Yf]gW\Y' GdUn]Yfk Y[Y'Ybh`Ub['XYf' K Òfb]hn"'8]YgY']Xm``]gW\Yb

CfhY'n]Y\Yb 'b]W\ h'bi f'X]Y'@c_U`VYj Ò`_Yfi b['Ub ž'gcb XYfb'g]b X

Ui W\ 'HY]`'XYg'hci f]gh]gW\Yb 'FY]nYg'XYf'FY[]cb"

5i » YbghY\YbXY'gY\Yb'8cbUi k Òfh\'j cf'U``Ya 'U`g'9hUddYbn]Y`'Ui Z XYf'Fca Ubh]gW\Yb'GhfU» Y'gck]Y'U`g'_i `hi fY``Yb'Nk]gW\Ybghcdd nk]gW\Yb'5i [gVi f['i bX'BØfbVYf["'8i fW\']\fY'@U[Y']gh'X]Y'GhUXh

b]W\h'bif'Y]b'K U``ZU\fhgcfhž'gcbXYfb'Ui W\'Y]bY'VYXYi hYbXY GhUh]cb'Ui Z'XYa '8cbUi fUXk Y["'8]Yg'Yf\Ò\h'X]Y'5hhfU_h]j]hÀh'XYf GhUXh'ZØf'F UXZU\fYf'i bX'K UbXYfYf'[`Y]W\Yfa U»Yb"

Hcif]gh]gWXY =b ZfUghfi _hifib X GYfj]WY

6Ygi WXYfł]bbYb _ObbYb X]Y Hci f]ghl \pm Zcfa Uh]cb i bhYf XYf HY YZcbbi a a Yf Ž (- 'f\$\mathbb{\mat

$5bfY]gYa O[`]WX_Y]hYb$

8 c b U i k Of h] gh [i h YffY] W V U f ž Y [U ` c V a] h X Y a '5 i h c ž N i [' c X Y f : U \ f f U X " 5 i h c Z U \ f Y f _ O b b Y b ' X] Y 'G h U X h Ø V Y f ' X] Y '6 i b X Y g g h f U » Y b '6 %* ž '6 '& ž '6 '& ž '6 '&) 'f F c a U b h] g W Y 'G h f U » Y Ł g c k] Y 'X] Y '5 i h c V U \ b Y b '5 ' + ž '5 , 'i b X '5 ' - 'Y f f Y] W Y b " N i X Y a '] g h '8 c b U i k O f h \ Y] b 'k] W h h] [Y f 9] g Y b V U \ b _ b c h Y b d i b _ h 'a] h 'X] f Y _ h Y b 'J Y f V] b X i b [Y b 'b U W \ 5 i [g V i f [ž 'A Ø b W X Y b ž '6 Y f `] b ž 'B Ø f b V Y f [ž 'G h i h h [U f h ž 'I `a 'i b X F Y [Y b g V i f ["

: Øf'X]Y'5bfY]gY'a]h'XYa ': `i [nYi ['ghY\Yb'X]Y': `i [\ÀZYb
B ØfbVYf['fl%\$\$'_a Łž'A ØbWXYb'fl%\$\$'_a Łž'A Ya a]b[Yb'fl%' \$'_a Łž
Ghi hh[Ufh'fl%+\$'_a Ł'i bX': fUb_Zi fh'fl \$\$'_a Ł'ni f'J YfZØ[i b["
: U\ffUXZfYi bXY'Z|bXYb'nU\`fY]WXY': YfbfUXk Y[Y'k]Y'XYb

8cbUi fUXk Y['i bX'X]Y'Fca Ubh]gW\Y'GhfU» Yž'k À\fYbX'K UbXYfYfg]W\'ØVYf'Y]b'[i h'Ui g[YVUi hYg'BYhn'j cb'D]`[Yf! 'i bX K Y]hk UbXYfk Y[Yb'ZfYi Yb'_ÒbbYbž'XUfi bhYf'XYf'6UmYf]gW\! GW\k ÀV]gW\Y'\J_cVi gk Y['i bX'XYf'A U]b!8cbUi!K Y["

8]Y'GhUXh'8cbUi k Òfh\']gh'ni XYa 'U_h]j ']b'j YfgW\]YXYbYb
hci f]gh]gW\Yb'i bX'_i `hi fY``Yb'; fYa]Yb'j YfhfYhYbž'[Y`Y]hYh'j cb'XYf
Hci f]ga i g`Y]hYf]b'l `f]_Y'GhY[Yf"'8]YgY'9b[U[Ya Ybhg'hfU[Yb'ni f
cbh]bi]Yf`]W\Yb'K Y]hYfYbhk]W`i b['XYf'GhUXh'U`g'UhhfU_h]j Yg'N]Y`
ZØf'6Ygi W\Yf\]bbYb'VY]"

#bg[YgUa hinY][hig]WX žiXUgg:8 cbUi k Ofh\ ib]WX hibi fi_i `hi fY``i bX
\]ghcf]gWX ik Yfhj c``i]ghžigcbXYfb 'Ui WX 'U`g'hci f]gh]gWX Yf
5bn]Y\i b[gdi b_hiØVYfnYi [hžiXYfiY]bY 'VfY]hY 'DU`YhhY 'Ub
: fY]nY]ha O[`]WX_Y]hYb 'V]YhYh'' C V 'Ui Zink Y]'F AXYfbžini ': i » 'cXYf
a]hiXYa '5i hc' '8 cbUi k Ofh\ i]ghiY]b '`c\bYbXYg'N]Y` 'ZØf'U``Yž'X]Y
X]Y 'GWX Ob\Y]hYb 'XYf'VUmYf]gWX Yb 'F Y[]cb 'YbhXYW_Yb'a OWX hYb''
K Y]hYfY *DZcfa Uh]cbYb 'Z]bXYb *DhYfYgg]YfhY 'Ui Z'XYf'K YVg]hY'j cb''
8 cbUi !F]Yg'5_hi Y``i bX'8 cbUi k Ofh\"

8 YhU]`g	
Cfh	FUh\Uig[UggY'%ž', **\$-'8cbUik Òfh\ž
	8 Yi hgWX`UbX
EiY``Yb	k k k "XcbUi !f]Yg!U_hi Y``"XY
	• k k k "XcbUi k cYfh\"XY

6 Y gi WX Y b 'G] Y 'i b g 'Ui Z. 'Y] b Y ! f Y] g Y "X Y