

GWX U`_Yg`A UI ; fØ[Yf`ghY\h'j cf`XYa Gdfi b[]b X]Y DfcZ]a UbbgWX UZh

GWXU`_Y`\$('gYhnh'Ui Z'BUWXki WXghU`Ybh'A UI '; fØ[Yfž'XYf bUWX 'ghUf_Yb'@Y]ghi b[Yb'gY]b'DfcZ]!8YVØh']bg'J]g]Yf'b]a a h"

8]Y '9bhk]W_`i b['4 b[Yf'HU`YbhY']gh'Y]b'k]Wkh][Yf'6YghUbXhY]`'XYg dfc ZYgg]cbY``Yb': i » VU``g"'9]b'j]Y`j YfgdfYWkYbXYg'6Y]gd]Y``XUZØf]gh'A UI '; fØ[Yfž'Y]b'Gd]Y`Yf'XYg': 7 'GWkU`_Y'\$(ž'XYf a Ò[`]WkYfk Y]gY'VU`X'gY]b'8YVØh']b'XYf'YfghYb'A UbbgWkUZh'ZY]Yfb _\ObbhY''8]Yg'_\ObbhY'b]Wkh'bi f'gY]bY'dYfg\Ob`]WkY'? Uff]YfY YbhgWkY]XYbX'j cfUbhfY]VYbž'gcbXYfb'Ui Wk'X]Y'\=XYbh]h\Ah'XYg JYfY]bg'gh\Af_Ybž'XYf'ni bY\a YbX'Ui Z'Y][YbY'BUWkki Wkggd]Y`Yf gYhnh''

8]Y 6YXYi hi b['j cb 'A UI '; $f\emptyset$ [Yf 'Z \emptyset f 'GW\ U`_Y \$(

A UI '; $f\emptyset[Yf\check{z}'XYf'Yfgh'\%- `*J\fY`U`h']gh\check{z}'\setminus Uh'Y]bYb`DfcZ]!JYfhfU[`V]g$ &\$&* `VY]`XYb`? Ob][gV`Ui Yb`i bhYfgW\f]YVYb`i bX`nY][h'gY]hXYa Ybcfa Yg`DchYbn]U`'' 9f'\Uh'X]Y`[UbnY`JcfVYfY]hi b[`a]h[Ya UW\h i bX`[i hY`@Y]ghi b[Yb`[YVfUW\h''9f'\Uh'gY]b`DchYbn]U``[YnY][h ž Ài »YfhY`HfU]bYf'? UfY``; YfUYfhg''`Gc`W\Y`5i ggU[Yb`j cb`HfU]bYfb g]bX`ZØf'\hat{b}[Y`Gd]Y`Yf'Ybcfa `a ch]j]YfYbX`i bX`nY][Ybž`XUgg`]\fY\UfhY`5fVY]h`5bYf_Ybbi b[`Z]bXYh''

9]b HU`Ybh'a]h HfUX]h]cb

; $f\emptyset[Yf]ghb]Whhbi fY]bbYi Yg; Yg]Wh]a ?UXYf/Yf[Yhhhii XYb'HU`YbhYbž'X]Y``Ub[Y]a 'JYfY]bg]bX"'GY]hgY]bYa 'g]YVhYb@YVYbg'Uhf'hfÀ[h'Yf'XUg'V`Ui !kY]»Y'Hf]_chii bX'hUh'g]Wh$

 $\label{thm:cbghUbhYfYbhk} $$ $$ _cbghUbhYf`Ybhk $$ $$]W_Y`h" 8 $$]YgY`JYfVi bXYb\Y]h`a $$]h`XYa `JYfY]b $$ _Ubb`]\b`]b`gWk $$]Yf][Yb`D\UgYb`i bhYfghØhnYbž`XU`Yf`X]Y $$ YgWk]Wk hY`i bX`X]Y`K YfhY`XYg`7`i Vg`[i h`_Ybbh" $$$

8]Y 7\UbWYžXUgHYUa ni jYfghÀf_Yb

 $5b[Yg]Whg:XYf:YhnhYb:JYf:Yhnib[Yb:]a:HYUa:_ObbhY:; f@[YfgW.cb:VU:X:X]Y:; Y:Y[Yb:Y]h:VY_ca:a:Ybž:Ui:Z:XYa:D:Uhn:ni:nY][Ybž:k:Ug:]b:]\a:ghYW_h:=a:HfU]b]b[::\Uh:Yf:g]W.:U:g:gc:]XYf:6U:`j:YfhY]:YfdfcZ]:]Yfh:i:bX:k:]fX:ZØf:XYb:VYj:cfghY\YbXYb:?Ua:dZ:[Y[Yb:XYb:%":7:BØfbVYf[:]b:6YhfUW.h:[Ync[Yb:":9]bY:?Uff]YfY:_Ubb:Xi:fW.:Y]bž:nk:Y]ž:XfY]:J:Yf:Yhni:b[Yb:ghUfhYbž:XUbb:a:i:ggh:Xi::X]Y:7\UbW.bY\a:Yb ž:gU[hY:; YfUYfhg:i:bX:j:YfXYi:h:]W.hY:XUa:]hž:XUgg:X]Y A O[:]W._Y]h:ni:f:Gd]Y:nY]h:ZØf:Yb[Y:Gd]Y:Yf:cZh:i:bYfk:UfhYh:_ca:a:h"$

9]b 6`]W_ ni fØW_ Ui Z'X]Y ``YhnhY GU]gcb

; fØ[Yf`\Uh`]b`XYf`j cf\Yf][Yb`GU]gcb`]b`&, `Gd]Y`Yb`ZØf`X]Y
I %-!A UbbgW\UZh`ZØbZ'HcfY`Yfn]Y`h'i bX`g]W\`XUa]h'U`g`k]W\h][Yg
9`Ya Ybh`XYf`\$\[YbXa UbbgW\UZh`YhUV`]Yfh"`GY]bY`9fZU\fi b[Yb`Ui Z
bUh]cbU`Yf`9VYbY`U`g`I %-!BUh]cbU`gd]Y`Yf`Yfk Y]hYfb`gY]bY
9I dYfh]gY`i bX`nY][Ybž`XUgg`Yf`Ui Z`\c\Ya `B]j YUi `_cb_i ff]YfYb
_Ubb"

8 Y f '7 ca a i b]hm! 9 ZZY _ h. 'G W U ` _ Y 'g Y hn h 'U i Z Y][Y b Y 'H U ` Y b h Y

8]Y'6Yhcbi b['Ui Z'X]Y': ÒfXYfi b['j cb'HU`YbhYb'k]Y'; fØ[Yf'_ÒbbhY Ui W\'Y`ZYbž'XUg'; Ya Y]bgW\UZhg[YZØ\`']bbYf\U`V'XYg'JYfY]bg'i bX XYf'FY[]cb'ni 'ghÀf_Yb'': Ubg'i bX'A]h[`]YXYf'XYg'JYfY]bg i bhYfghØhnYb'X]Y'=XYYŽ'XUgg'X]Y'VYghYb'Gd]Y`Yf'j cb'\]Yf _ca a Yb'gc``Yb'''9g'ZÒfXYfhY]bY'Yb[YfY'6]bXi b['nk]gW\Yb'XYa JYfY]bŽ'XYb'Gd]Y`Yfb'i bX'XYb'I bhYfghØhnYfbž'k Ug'`Ub[Zf]gh]['ni Y]bYa 'ghUV]`YfYb'JYfY]b'ZØ\fYb'_Ubb''

A UI '; fØ[Yf'i bX'gY]bY'ni _ØbZh][Yb'5i Zhf]hhY']b'XYf'YfghYb A UbbgW\UZh'_ÒbbhYb'a Y\f'U`g'bi f']bX]j]Xi Y``Y'9fZc`[Y'XUfghY``Yb/ g]Y '_ObbhYb 'Y]bY 'K Y``Y 'bYi Yf 'HU`YbhY 'Ubghc » Ybž'X]Y ']a ': 7 GW U`_Y '\$ ('X]Y 'bÀW ghY '; YbYfUh]cb 'j cb 'DYfgOb`]W _Y]hYb 'dfÀ[Ybk YfXYb "'C V 'XUg '8 YVØh'XYg 'A]hhY`ZY `Xgd]Y `Yfg 'i ba]hhY`VUf VYj cfghY \hž'V`Y]Vh'UVni k UfhYbž'XcW 'XYf 'HfYbXž BUW k i W ggd]Y `Yf Y]bZ]Y » Yb 'ni ``UggYbž'`Àggh'j Yfa i hYbž'XUgg gY]bY '7 \UbW 'b]W h``Ub[Y 'Ui Z'g]W k UfhYb ``UggYb'k]fX"

8 YhU]`g

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