

6]bbYbgW\]ZZ'fUa a h'6fØW_Y']b A Ubb\Y]a . 'A]`]cbYb!GW\ UXYb' i bX 7\ Ucg°

⊕ 'A Ubb\Y]a ' _c`]X]YfhY 'Y]b'6]bbYbgW\]ZZ'a]h'XYf
8]ZZYbÅvfØW_Yž'k cXi fW\ 'Yf\YV`]W\ Yf'GUW\ gW\ UXYb
YbhghUbX" '8]Y' l bZU` i fgUW\ Y' k]fX' i bhYfgi W\ h"

A Ubb\Y]a ž'8Yi hgW\ `UbX' ! ⊕ 'A Ubb\Y]a ` \Uh'Y]b'6]bbYbgW\]Z
Ua 'A]hkh cW\ UVYbX'X]Y'8]ZZYbÅvfØW_Y [YfUa a hi bX'XUVY]'gY]b
GhYi Yf\Ui g'j Yf'cfYbž'c\ bY'XUgg'XUVY]'Ya UbX'j Yf'Yhnh'k i fXY"
8]Y'Dc`]nY]VYf]W\ hY' VYghÅh] [Ybž'XUgg'X]Y' ? c`]g]cb'ni 'Yf\YV`]W\ Yb
GUW\ gW\ ÅXYb' [YZØ\ fh\ Uh'XYf'GW\ UXYb'Ua 'GW\]ZZ'k]fX'Ui ZYhk U
&\$ "\$ \$ \$ '9i fc' [YgW\ Åhnh" 'Nk Y]'5i hcgž'X]Y'g]W\ 'Ui ZXYa 'GW\]Z
VYZUbXYbž'k i fXYb'Xi fW\ 'XYb'5i ZdFU`]b'XYb'⊕Xi ghf]Y\ UZYb
[YgW\ cVYbž' _cbbhYb' ^XcW\]bnk]gW\ Yb' [YVcf [Yb'k YfXYb"

8]Y'6fØW_Y'V'Y]Vh'j cfYfgh'ZØf'XYb'J Yf_Y\ f' [YgdYffhž'k Å\ fYbX
GhUh]_Yf'X]Y'Ghfi _hi f'Ui Z]\fY'G]W\ Yf\Y]h'dfØZYb" '8]Y'9]bgUhn_fÅZhY
j cb': Yi Yfk Y\ fž'Dc`]nY]'i bX'K UggYfgW\ i hndc`]nY]'k UfYb'gW\ bY`
j cf' Cfhž' i a 'X]Y'G]hi Uh]cb'ni 'g]W\ Yfb' i bX'X]Y'YfghYb
l bhYfgi W\ i b [Yb'Y]bni 'Y]hYb" '8 Yf'; fi bX'ZØf'XUg'l b [`ØW`]gh'bcW\
i b_`Ufž'i bX'X]Y'6Y\ ØfXYb'dfØZYb'bi b'gck c\`a YbgW\ `]W\ Y'U`g
Ui W\ 'hYW\ b]gW\ Y': Y\`Yf'U`g'a Ò [`]W\ Y'l fgUW\ Yb" 'K Y]hYfY
⊕ Zcfa Uh]cbYb'k YfXYb'Yfk UfhYhž'k Å\ fYbX'X]Y'8]YbghY' bUW\ 'Y]bYf
, VYfd fØZ b ['XYg'GW\]Zgj Yf_Y\ fg'X]Y'fY [i `ÅfYb'5V`Ài ZY
k]YXYf\YfghY`Yb'k c`Yb`Ui h'k k k "h!cb`]bY"XY"

8YhU]`g	
Cfh	A Ubb\Y]a ž'8Yi hgW\ `UbX

6Ygi W\Yb`G]Y`i bg`Ui Z.`b!U["XY