

GdUf_UggY`Nk]W_Ui `YfÒZZbYh`a cXYfbYg 6Y[Y[bib[gnYbhfia 'Ua '< Ui dha Uf_h°

8]Y'GdUf_UggY'Nk]W_Ui 'YfÒZZbYh'Ua '< Ui dha Uf_h'Y]b a cXYfbYg'6YfUhi b[gW\bhYf\beta'XUg'd\Yfg\Ob\]\W\Yg'6Ub_]b['a]h bYi Yb'GYfj]\W_cbn\Ydh\Yb'j\Yf\]bh"



< Ui d ha Uf_h'+ž'\$, \$) * 'Nk]W_Ui ž'8 Yi hgWk `Ub X ! '8]Y
GdUf_UggY Nk]W_Ui `\Uh'Ua : fY]hU[']\fY' < Ui dhZ]`]U`Y 'Ua
< Ui dha Uf_h'ZY]Yf`]Wk k]YXYfYfÒZZbYh'i bX'dfÀgYbh]Yfh'g]Wk 'bi b'U`g
a cXYfbYg'6YfUhi b[gnYbhfi a "'8]Y'l a [YghU`hi b[ž'X]Y'Y]bYb
g]YVYbghY``][Yb'6YhfU['j YfgWk`Ub[ž'gc```X]Y +bhYfU_h]cb'a]h'XYb
?i bXYb'ZÒfXYfb'i bX'Y]b`UXYbXYf'[YghU`hYb"'J cfghUbXgWkYZ
5bXfYUg': c\fa Ubb'Yf_'ÀfhYž'XUgg'X]Y':]`]U`Y'ni a
6Y[Y[bi b[gnYbhfi a 'k YfXYb'gc``ž'k c'b]Wkh'bi f'6Ub_[YgWkÀZhYž
gcbXYfb'Ui Wk']bZcfa Y``Y'; YgdfÀWkY'VY]'Y]bYf'HUggY'? UZZYY
a Ò[`]Wk'g]bX"'8]Y'[fi bX`Y[YbXY'=XYY'\]bhYf'X]YgYa '?cbnYdh']gh
Ygž'XYb'?i bXYb'Y]b'dcg]h]j Yg'9f`YVb]g'ni 'cZZYf]YfYbž'gcXUgg'g]Y
[YfbY'k]YXYf_Y\fYb"</pre>

 $\label{eq:continuous} 5a \ ``&\$'' `\Rightarrow \ b]' \ ZUbX'X]Y' gma \ Vc`]gWXY' GWX` ØggY` ØVYf[\ UVY'ni f \ 9fOZZbi b[`XYg'bYi Yb'6YfUhi b[gWYbhYfg'ghUhh'' I bhYf'XYb'; ÀghYb k UfYb'Ui WX'Nk]W_Ui g'C VYfVØf[Yfa Y]ghYf]b'7cbghUbW'5fbXh'i bX @UbXfUh'? UfghYb'A]WX UY`]g''': c\fa Ubb'VYXUb_hY'g]WX'Ui gXfØW_`]WX VY]'XYb'&$':]fa Ybž'X]Y'Ub'XYa 'Yhk U'%) 'A cbUhY'XUi YfbXYb I a VUi 'VYhY]`][h'k UfYb'''8]Y'bYi Y':]`]U`Y']gh'a]h'V]g'ni '%) A]hUfVY]hYfb'X]Y'[fO`> hY']\fYf'5fh'i bX'k]fX']b'Ni _i bZh'U`g'A i ghYf ZØf'k Y]hYfY'GhUbXcfhY'X]YbYb'''C Vk c\``UbXYfY':]`]U`Yb'_`Y]bYf'gY]b k YfXYbž'k]fX'XUg'bYi Y'?cbnYdh'gWXf]hhk Y]gY'Ui g[Yk Y]hYhž'XU'XUg _`Ugg]gWXY'GWXU`hYf_cbnYdh'U`g'ØVYf\c`h'Ub[YgY\Yb'k]fX''$

A cXYfbY; YghU`hi b['i bX']bhY[f]YfhY 8]Ybgh`Y]ghi b[Yb

 $8]Y G d U f_U g g Y N k] W_U i V Y h c b h a] h] \ f Y f a c X Y f b Y b ; Y g h U h i b [ž X] Y i b h Y f U b X Y f Y a Y] b ; `U g X U W i b X Y] b Y A c c g k U b X i a Z U g g h ž X] Y B c h k Y b X] [_Y] h j c b d \ mg] g W Y b :] `] U Y b '] b 'X Y f N i _ i b Z h " 8] Y @ Z h e i U `] h A h g c `` g c 'X Y i h `] W 'j Y f V Y g g Y f h k Y f X Y b ž k U g ' n i 'Y] b Y a U b [Y b Y \ a Y b F U i a _ `] a U V Y] h f A [h " 9] b ' k Y] h Y f Y f D `i g d i b _ h `X Y g b Y i Y b '6 Y f U h i b [g W b h Y f g '] g h X] Y \ b h Y [f U h] c b 'Y] b Y f '8 < @ P D U W_g h U h J c b ž X] Y `X Y b '? i b X Y b 'n i g A h n `] W Y '8] Y b g h Y] g h b [Y b 'V] Y h Y h i b X 'X] Y `G d U f_U g g Y `U `g `k] W h] [Y b `D U f h b Y f `] b `X Y f `F Y [] c b d c g] h] c b] Y f h "$

8]Y 5bgdfØWX Y XY fr?i b XY b 'Àb XY fb 'g]WX ži b X 'X Ug 'gc ``Y b 'Ui WX 'X]Y :]`]U`Y b 'k]XY fgd]Y [Y`b" 5i g '6fUb WX Y b Ub U`mgY b 'Y f[] V h'g]WX ž 'X Ugg 6Ub_Y b 'X]Y : i b_h]c b ']\ fY f'd\ mg]gWX Y b 'GhUb X c fhY 'b Y i 'XY Z]b]Y fY b a ØggY b ži a 'Y]b 'a U » [YgWX b Y]XY fhY g '9f`Y V b]g 'ni 'gWX U ZZY b "'8 Y f HfY b X '[Y\ h']b 'F]WX hi b ['Ca b]WX Ub b Y` '6 Ub_]b [ž 'VY] 'X Y a _`Ugg]gWX Y 'd Y fg Ob`]WX Y '6 Y f Uhi b ['i b X 'X][]hU`Y '5 b k Y b X i b [Y b < Ub X ']b '< Ub X '[Y\ Y b "'Ghi X]Y b 'n Y][Y b ž X Ugg 'X][]hU`UZZ]b Y '? i b X Y b Y]b Y '? ca V]b Uh]cb 'Ui g 'VY]X Y a 'Y fk UfhY b ž k Ug 'ni g Ahn`]WX 'ni f ?i b X Y b V]b X i b ['VY]hf A [h"

?ibXYb]a A]hhY`dib_h

 $8] Y \cdot GdUf_UggY \cdot Nk] W_Ui \cdot \backslash Uh \cdot Y] b \cdot c ZZY b Yg \cdot C \backslash f \cdot Z\emptyset f \cdot X] Y \cdot 6 Y X \emptyset f Zb] ggY$

]\fYf^?ibXYb"CV^hYW\b]gW\Y'IbhYfghØhnib[`VY]'5ddg'cXYf
]bX]j]XiY``Y'6YfUhib[`XYf':c_ig``]Y[h'XUfUiZž'Y]b'YZZ]n]YbhYg'ibX
gW\bY``Yg'GYfj]WYUb[YVch'ni'[Yk À\f`Y]ghYbž'XUg'ni'dcg]h]j Yb
?ibXYbYf`YVb]ggYb'ZØ\fh'':c\faUbb'ibX'gY]b'HYUa'\UVYb'Y]b
[ihYg'<ÀbXW\Yb'VYk]YgYbž'ia'X]YgYb'K UbXY``Y]bni`Y]hYb'ibX
XYb'GhUbXcfh'ZØf'X]Y'Ni_ibZh'ni'fØghYb''8Yf'6UiVcca'Ub'XYf
<UidhghfU\(\gamma\)Y'nY][hž'XUgg'X]Y'GdUf_UggY'g]W\'ZYgh'nif'GhUXh'ibX
XYf'FY[]cb'VY_Ybbh'ibX'a]h']\fYa'bYiYb'?cbnYdh'nY]h[Ya'A\(\gamma\)UiZhf]hh''

8 Y hU]`g	
Cfh	Ui dha Uf_h'+ž'\$, \$) * 'Nk]W_Ui ž'8 Yi hgW\`Ub X
EiY``Yb	• k k k "fUX]cnk]W_Ui "XY
	• k k k "V`]W <u>_</u> "XY
	k k k "V!_!d"bYh

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