

F 6 '@Y]dn][. 'B Yi Yf'7c!HfU]bYf N]a a Yfa Ubb 'gc`` 'GhUbXUfXg fYj c`i h]cb]YfYb '

F6'@Y]dn]['VY[fØ» h'C `Y'K YfbYf'U`g'bYi Yb'HfU]bYf'i bX'*JbN]a a Yfa Ubb'U`g'7c!HfU]bYf'': c_i g'Ui Z'J YfVYggYfi b['j cbGhUbXUfXg''



@Y]dn][ž8Yi hgWX`UbX`!'\\ D'@Y]dn]['[]Vh'Yg'Zf]gWXYb'K]bX']a

HfU]bYfhYUa 'j cb'F6.'\\ Jb'N]a a Yfa Ubb'k]fX'XYf'bYi Y'7c!HfU]bYf
j cb'C'Y'K YfbYf"'8Yf'()!\\ A\f][Y'i bhYfgWXf]YV'Y]bYb'J YfhfU['V]g

&\$&+'i bX'k]fX'gca]h'Y]b'nYbhfU'Yf'6YghUbXhY]''XYg'HfU]bYfghUVg

VY]'XYb'FchYb'6i '`Yb"'6]'X'VYf]WXhYh\'ZXUgg'N]a a Yfa Ubb'VYfY]hg

Ua 'A cbhU[bUWXa]hhU['VY]a 'YfghYb'OZZYbh']WXYb'HfU]b]b['XUVY]

gY]b'k]fX"'8Yf'[YVØfh][Y'H\Øf]b[Yf'Vf]b[h'j]Y`'9fZU\fi b['a]h\'Z

bUWXXYa 'Yf'ni 'Yhnh'6cfi gg]U'8cfha i bX'=hfU]b]Yfh'\Uh'i bX'gY]bYb

5VgWX]YX'ni a 'GU]gcbYbXY'VY_Ubbh'[UV"

 $\label{eq:normalized_normalized} N] a a Yfa Ubb`\Uh`]b`gY]bYf`? Uff]YfY`i bhYf`UbXYfYa `VY]`< Ubbcj Yf$

- * i bX XYa 'HGJ '< Uj Y`gY 'U`g`7\YZhfU]bYf'[YUfVY]hYh'' +b 8 cfha i bX '_cbbhY 'Yf']b '- % DZ]WX hgd]Y`Yb 'Xi fWX gWX b]hh`]WX '%Z' 'Di b_hY 'dfc 'Gd]Y``gUa a Y`b"'8Yf'bYi Y '7c!HfU]bYf'k]fX 'g]WX VYgcbXYfg'i a 'X]Y 'J YfVYggYfi b['XYf'GhUbXUfXg]hi Uh]cbYb']a HYUa '_Øa a Yfbž'Y]bYa '6YfY]WX Z'XYf']b 'XYf'j Yf[Ub[YbYb'GU]gcb U`g'GWX k ÀWX Y'Ui g[Ya UWX h'k i fXY"'HfUbgZYfa Uf_h'\YVh'\Yfj cfZ XUgg']a 'DfcZ]VYfY]WX 'YXYg'Xf]hhY 'Hcf'Ui g'Y]bYa 'GhUbXUfX fYqi `h]Yfh' 'Y]bY'HUhgUWX YZ'X]Y'cZhii bhYfgWX Àhnh'k]fX"

9]b ghUf_Yg HYUa ZØf X]Y b À W ghY GU]gc b

8]Y'JYfÀbXYfi b[Yb']a 'HfU]bYfhYUa '_ca a Yb'b]Wh'j cb'i b[YZÀ\f. \(\dag{b} \) XYf'Gca a YfdUi gY'\Uh'F 6'@Y]dn]['VYfY]hg'%* 'DYfgcbU`]Yb'fi bX i a 'X]Y'DfcZ]!A UbbgW\UZh'Ub[YdUggh"I bhYf'UbXYfYa '\Uh HYUa dgmW\c`c[Y'DYhYf'GW\bY]XYf'XYb'?`i V'j Yf`UggYbž'k À\fYbX D\mg]ch\YfUdYi h'G]a Ycb'I b[Yf']b'XUg' FYX'6i ``'5h\`YhY DYfZcfa UbWY'7YbhYf 'bUW\'H\U`[Ui 'k YW\gY`h''5i W\'XYf `Ub['À\f][Y'7\YZGd]Y`UbU`mgh': UV]Ub': f]YXf]W\'VYYbXYh'gY]bY NY]h'VY]'F6ž'bUW\XYa 'Yf'gY]h'\&\%\"HY]`'XYg'JYfY]bg'k Uf"'

HfU]b]b['jcb'GhUbXUfXg]hi Uh]cbYb'U`g GWX`ØggY`ni a '9fZc`[

8]Y '6YXYi hi b['j cb'[i h'Xi fWX[YZØ\fhYb'GhUbXUfXg]hi Uh]cbYb'k]fXcZh'i bhYfgWXÀhnhž'gckc\``]a 'DfcZ]VYfY]WX 'U`g'Ui WX']a 5a UhYi fZ » VU``"'C Zha U`g'ZY\`Yb'X]Y'NY]h'i bX'X]Y'⇒XYYbž'i a YZZY_h]j Y'5V`Ui Zd`ÀbY'ZØf': fY]ghÒ» Y'i bX'9W_Yb'ni 'Ybhk]W_Y`b"'Gc _ca a h'Ygž'XUgg'j]Y`Y'HYUa g']b'XYf'\Y_h]gW\Yb'Gd]Y`gU]gcb'X]Y Ui g[YUfVY]hYhYb'HfU]b]b[gd`ÀbY'bUW\'k Yb][Yb'Gd]Y`Yb'k]YXYf j Yf[YggYb"'GcWWYfXf]``g'Ya dZ]Y\`hž'GhUbXUfXg'bcW\'j cf'XYa YfghYb'HYghgd]Y``_cbh]bi]Yf`]W\'Y]bni ØVYbž'i a 'g]Y'b]W\h'Ui g'XYb 5i [Yb'ni 'j Yf`]YfYb"

Ni gUa a YbZUggYbX``Àggh'g]W\`gU[Ybž'XUgg'F6'@Y]dn]['i bhYf'XYfbYi Yb': Ø\fi b['j cb'C`Y'K YfbYf'i bX'\Jb'N]a a Yfa Ubb'Y]bY gdUbbYbXY'GU]gcb'VYj cfghY\h''A]h'XYb'f]W\h][Yb'GhfUhY[]Yb'i bXY]bYa '_`UfYb': c_i g'Ui Z'X]Y'JYfVYggYfi b['j cb'GhUbXUfXgž'_ÒbbhYYg'ZØf'X]Y'FchYb'6i ``Yb'Y]b][Y'9fZc`[Y'ni 'ZY]Yfb'[YVYb''8]Y': Ubg XØfZYb'[YgdUbbh'gY]bž'k]Y'g]W\'XYf'?UXYf']b'XYb'bÀW\ghYb K cW\Yb'Ybhk]\W_Y`b'k]fX''

8 YhU]`g	
Cfh	@Y]dn][ž8YihgWX`UbX
EiY``Yb	• k k k "V]`X"XY
	k k k "hfUbgZYfa Uf_h"XY
	k k k "gc WWW fXf]``g"XY

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