

H\Øf]b[Yb']a '5i ZVfi WX.'BYi Yf ?cU`]h]cbgj YfhfU['ZØf'Y]bY'ghUf_Y Ni _i bZh°

H\Øf]b[Yb'&\$&). '?cU`]h]cbgj YfhfU['nk]gW\Yb'78I ž'7GI'i bX GD8'ZÒfXYfh' ⇒bcj Uh]cbYb'i bX'UXfYgg]Yfh'XYa c[fUZ]gW\Y <YfUi gZcfXYfi b[Yb"



H\Øf]b[Ybž8Yi hgWX`UbX`!'\delta'H\Øf]b[Yb]gh'bUWX'a cbUhY`Ub[YbJYf\UbX`i b[Yb'Y]b'?cU`]h]cbgj YfhfU['nk]gWXYb'78I ž'6GK 'i bXGD8'ni ghUbXY'[Y_ca a Ybž'XYf'U`g': i bXUa Ybh'ZØf'Y]bY\UbX`i b[gZÀ\][Y'FY[]Yfi b['X]YbYb'gc``"'H\Øf]b[Ybg'78I!7\YZJc][h'VYgWXfY]Vh'XYb'JYfhfU['U`g'k]WXh][Yb'GWXf]hh'ni f
KY]hYfYbhk]W_`i b['XYg'6i bXYg`UbXYg"'9f'\YVh'\Yfj cfž'XUggX]YgYf'JYfhfU['b]WXh'bi f'hYWXb]gWXYi bX'k]fhgWXUZh`]WXY: cfhgWXf]hhY'UbghfYVhž'gcbXYfb'Ui WX'[YgY``gWXUZh`]WXY
YfUi gZcfXYfi b[Yb'Ui Z[fY]Zh"'@Ui h'HUV`Y'A YX]U'VYhfUWXhYh'XYf?cU`]h]cbgj YfhfU['X]Y'Ni ghÀbXY']b'H\Øf]b[Yb'U`g'Gd]Y[Y`V]`X'XYf

8 Yf J Yfhfu[ž XYf bc W j cb DufhY][fYa]Yb i b X A]h[`]Y XYfb [Yb Y\a][h k Yf XYb a i ggž \ Uh Y]b][Y ? Yfb Ub `]Y [Yb ž X]Y gW b Y ```]b XYf 6 Yj O`_Yfi b['K]f_i b['n Y][Yb 'gc ``Yb " 8 Uni 'n À\ `Yb i b h Yf Ub XYf Ya 'X]Y '9]b ZØ\ fi b['j cb '8 Yi hgW h Yghg 'ZØf': Øb Z'À\f][Y ']b ?]b XYf[Àfh Yb 'gck]Y 'Gd f UW ZÔf XYfi b['ZØf'?]b XYf a]h '8 YZ]n]h Yb 'j cf XYf '9]b gW i `i b[" 8 Ua]h 'k]f X 'Y]b '[fc > Yf': c_i g 'Ui Z '6] `Xi b['[Y `Y[h ž XYbb 'k]Y 'K Y `h " XY 'V Yf] W h Yh ž 'gh Y\h 'n i XYa 'X]Y 'I a g Yhni b['Y]b Yf @YgYb !G W f Y]V Yb !F YW b Yb!; Uf Ub h]Y ']b 'X Yf'; fi b X g W i `Y 'Ui Z 'X Yf 5 [Yb X U " 5 i W X]Y '5 V g W U Z i b['X Yf' < cfh[Y V Ø\ f Y b ']gh 'U `g A U > b U\a Y 'n i f '9 b h `Ughi b['j cb': Ua]`]Yb 'j cf[Y g Y\Yb"

K]fhgWX UZh'i b X '8][]hU`]g]Yfi b[']a ': c_i g

K]fhgWw UZh`]Ww 'VYhfUWw hYh`gc```Y]b 'HfUbgZcfa Uh]cbg!ž'HYWw bc`c[]Y! i bX '\delta bcj Uh]cbgZcbXg`[YgWw UZZYb'k YfXYb"'8 Yf`bYi Y ?cU`]h]cbgj YfhfU['g]Y\h`Ui Ww 'DfØZi b[Yb 'ZØf`Y]bYb': ÒfXYfVcbi g`ZØf hUf]Z[YVi bXYbY`I bhYfbY\a Yb'j cfi bX`d`UbhY]bY`_cghYbZfY]Y A Y]ghYfUi gV]`Xi b["'9]bY '5Ww h!K cWw Yb!; YbY\a][i b[gZf]gh`gc`` X]Y 'VØfc_fUh]gWw Yb 'DfcnYggY 'VYgWw `Yi b][Yb"'8]Yg`_ObbhY 'X]Y 5bg]YX`i b['bYi Yf`I bhYfbY\a Yb`i bX`X]Y 'GWw UZI b['j cb 5fVY]hgd`AhnYb']b'H\Øf]b[Yb'ZOfXYfb"'8 Yf 'Gd]Y[Y``VYf]Ww hYh ni XYa 'ØVYf`\delta]h]Uh]j Yb'ni f'J YfVYggYfi b['XYf ; Ygi bX\Y]hgj Yfgcf[i b[ž'X]Y`g]Ww YfghY``Yb'gc``Ybž'XUgg'< Ui g! 'i bX : UWw AfnhY 'a UI]a U``&\$ 'A]bi hYb': U\fnY]h'j ca 'K c\bcfhYbhZYfbh g]bX"

9]b'k Y]hYfYg'nYbhfU`Yg'H\Ya U']gh'X]Y'A][fUh]cbgdc`]h]_ž'X]Y'Y]bYb
_`UfYb'F]W\hi b[gk YW\gY`'YfZU\fYb'gc``"DYfgcbYb'c\bY
GW\i hn[fi bX'cXYf'a]h'Y]bYf'=\XYbh]h\hgj YfgW\`Y]Yfi b['gc``Yb'XUg
@UbX'j Yf`UggYbž'k \hat\fYbX'Y]bY'5i gk Y]hi b['XYf'@]ghY'g]W\YfYf
<Yf_i bZhgghUUhYb'Ub[YghfYVh'k]fX"'5b[Yg]W\hg'XYf'i a ghf]hhYbYb
A][fUh]cbg`U[Y'k]fX'Ui W\'X]Y'GW\UZI b['Y]bYf'nYbhfU`Yb
@UbXYgUi g`\hat\fYY\\hat\fYx'X]g_i h]Yfh\fi a 'X]Y'JYfk U`hi b[']b
X]YgYa '6YfY]W\'ni 'cdh]a]YfYb"

BUWX\U`h][_Y]h'i bX'8][]hU`]g]Yfi b[

±0.5 b V Y h f U W h i X Y g ? `] a U k U b X Y `g i b X · X Y f · B c h k Y b X] [_Y] h ž b U W \ U `h] [Y · 9 b Y f [] Y b · n i · Z Ò f X Y f b ž · g] Y \ h · X Y f · ? c U `] h] c b g j Y f h f U [U i W · X] Y · , V Y f U f V Y] h i b [· X Y g · H \ Ø f] b [Y f · ? `] a U g W i h n [Y g Y h n Y g · j c f " 9] b · ? c a d f c a] g g ž U i Z · X Y b · j] Y ` Y · I a k Y ` h U _ h] j] g h Y b · \ c ZZ Y b " · 8 U g 6 Y _ Y b b h b] g · n i a · D U f] g Y f · ? `] a U g W i h n U V _ c a a Y b ·] g h Y f Y f Y f G W f] h h ž i a · H \ Ø f] b [Y b · U `g · J c f f Y] h Y f ·] b · X Y f · 9 b Y f [] Y d c `] h] _ · n i d c g] h] c b] Y f Y b "

5VgWX`]Y» YbX``Àggh`g]WX`ZYgh\U`hYbž`XUgg`XYf`bYi Y
?cU`]h]cbgj YfhfU[i a ZUggYbXY`A U» bU\a Yb'j cf`Y[hž`X]Y`b]WXh`bi f
Ui Z`DfcV`Ya Y`fYU[]YfYbž`gcbXYfb`Ui WX`a i h][Y`GWXf]hhY`]b`X]Y
Ni _i bZh`k U[Yb"`Hfchn`U``Yf`<YfUi gZcfXYfi b[Ybž`X]Y`i bg`]b`XYb
_ca a YbXYb`\$J\fYb`Yfk UfhYbž`gYhnh`H\Øf]b[Yb`XUa]h`Ui Z

*bj Ygh]h]cbYb`i bX`: cfhgWXf]hh`UbghUhh`Ui Z`_cbgi a h]j Y`5i g[UVYb"
8]YgY`GhfUhY[]Y`_ObbhY`U`g`6Y]gd]Y``ZØf`UbXYfY`6i bXYg`ÀbXYf
X]YbYbž`X]Y`a]h`À\b`]WXYb`<YfUi gZcfXYfi b[Yb`_cbZfcbh]Yfh`g]bX"

8 YhU]`g	
Cfh	H\Øf]b[Ybž'8Yi hgW\`UbX
EiY``Yb	• hUV`Y"a YX]U
	• k k k "k Y`h"XY
	• k k k "gd]Y[Y`"XY

6 Ygi W Yb 'G]Y 'i bg 'Ui Z 'b!U["bYh