

< Y] ` Y b X Y ` C U g Y b . ` 9 b h X Y W _ Y b ` G] Y ` 6 U `] g
V Y g h Y ` K Y ` ` b Y g g ! F Y h f Y U h g °

9 b h X Y W _ Y b ` G] Y ` X] Y ` \ Y] ` Y b X Y ` ? f U Z h ` X Y f ` V U `] b Y g] g W X Y b ` ? i ` h i f
] b ` X Y b ` V Y g h Y b ` K Y ` ` b Y g g ! F Y h f Y U h g ` 6 U `] g " ` 9 f Z U \ f Y b ` G] Y ` a Y \ f
Ø V Y f ` M c [U ž ` [Y g i b X Y ` ? Ø W X Y ` i b X ` b U W X \ U ` h] [Y b ` H c i f] g a i g "



G h Y ` ` Y b ` G] Y ` g] W X ` j c f ž ` G] Y ` Y b h Z] Y \ Y b ` X Y a ` \ Y _ h] g W X Y b ` 5 ` ` h U [` i b X
h U i W X Y b ` Y] b `] b ` Y] b Y ` K Y ` h j c ` ` Y f ` F i ` \ Y ` i b X ` 9 f b Y i Y f i b [" ` 6 U `] ž ` X] Y
] b X c b Y g] g W X Y ` ð g Y ` X Y f ` ; ` Ø h h Y f ž `] g h ` g Y] h i @ U b [Y a ` Y] b ` A U [b Y h i Z Ø f
G i W X Y b X Y ` b U W X `] b b Y f Y a ` : f] Y X Y b ` i b X ` _ Ø f d Y f `] W X Y a
K c \ ` V Y Z] b X Y b " ` A] h ` g Y] b Y b ` Ø d d] [Y b ` F Y] g Z Y ` X Y f b ž ` g d] f] h i Y ` ` Y b
H Y a d Y ` b ` i b X ` X Y a ` g U b Z h Y b ` F U i g W X Y b ` X Y g ` C n Y U b g ` V] Y h Y h ` X] Y g Y f
C f h ` Y] b Y ` ? i ` `] g g Y ž ` X] Y ` k] Y ` [Y g W X U Z Y b `] g h ` Z Ø f ` K Y ` ` b Y g g ! F Y h f Y U h g "
<] Y f ` j Y f g W X a Y ` n Y b ` i f U ` h Y ` < Y] ` h f U X] h] c b Y b ` a] h ` a c X Y f b Y b ` 5 b g Å h n Y b
n i ` Y] b Y a ` [U b n \ Y] h `] W X Y b ` 9 f ` Y V b] g ž ` X U g ` ? Ø f d Y f ` i b X ` G Y Y ` Y
[` Y] W X Y f a U » Y b ` U b g d f] W X h " ` C V ` Y g ` X] Y ` A U [] Y ` X Y f ` V U `] b Y g] g W X Y b
? i ` h i f ` c X Y f ` X] Y ` i b V Y f Ø \ f h Y ` B U h i f `] g h ` ` 6 U `] ` Å X h ` X U n i ` Y] b ž
] b b Y n i \ U ` h Y b ` i b X ` g] W X ` g Y ` V g h ` b Y i ` n i ` Y b h X Y W _ Y b " ` ð ` X] Y g Y a ` 5 f h] _ Y `
b Y \ a Y b ` k] f ` G] Y ` a] h ` U i Z Y] b Y ` F Y] g Y ` X i f W X ` Y] b] [Y ` X Y f

]bgd]f]YfYbXghYb`C fhYž`X]Y`X]YgY`đgY`ni`Y]bYa`k`Y`hk`Y]hYb
NYbhfi`a`Z0f`5W`hgUa`_Y]hi`bX`FY[`YbYfUh]cb`[`Ya`UW`h`\UVYb`

9]bZ0\`fi`b`[`]b`K`Y``bYggF`YhfYUhg`]b`6U`]



9]b`gUbZhYf`K`]bX\`Ui`W`hfA[`h`XYb`8i`Zhj`cb`:`fUb[`]dUb]!6`0hYb
Xi`fW`X]Y`@`Zhž`k`A`fYbX`]b`XYf`:`YfbY`Y]b`VU`]bYg]gW`Yf`HYa`dY``]b
XYf`A`cf[`YbX`Aa`a`Yfi`b[`Yfk`UW`h`5i`Z6U`]`gW`Y]bh`X]Y`NY]h
gh]`ni`ghY\`Ybž`i`bX`[`YbUi`XUg`a`UW`h`X]Y`đgY`ni`Y]bYa
i`bj`Yf[`Y]W`X]W`Yb`F`0W`ni`[`gc`fh`Z0f`U`Y`ž`X]Y`bUW`]bYfYf`6U`UbW
ghfYVYb`"K`Y``bYgg!F`YhfYUhg`\UVYb`g]W`X`Y]f`]b`XYb`Y`hnhYb`đ\`fYb
ni`Y]bYa`[`c`VU`Yb`D`A`bca`Yb`Yb`hk`]W`Y`hž`XUg`A`YbgW`Yb`Ui`g`U`Y`f
K`Y`h`Ubn]Y`h`9g`]gh`_Y]b`Ni`ZU`ž`XUgg`X]YgY`hfc`d]gW`Y`C`UgY`U`g
9d]nYbhfi`a`Z0f`5W`hgUa`_Y]hi`bX`<Y]i`b`[`[`]h`X]Y`J`YfV]bXi`b[
j`cb`gd]f]hi`Y`Yf`H]YZY`i`bX`bU`h0f`]W`Yf`G`W`0b`Y]h`gW`UZ`h`Y]bYb
F`Ui`a`ž]b`XYa`9f`c`i`b`[`b]W`h`bi`f`a`0[`]W`ž`gc`bXYfb`ZUgh
i`bj`Yfa`Y]X`]W`]gh`"

GW`cb`gY]h`đ\`fnY\`bhYb`n]Y`h`6U`]`FY]gYbXY`Ubž`X]Y`a`Y`f`U`g`bi`f
Y]bYb`i`f`Ui`V`gi`W`Yb`"8]Y`đgY`V]YhYhY]bY`Y]bn][`Ufh][`Y`A`]gW`i`b[
Ui`g`\]bXi`]gh]gW`Yb`HfUX]h]cbYbž`a`YX]hUh]j`Yb`DfU`_h]_Yb`i`bX`Y]bYf
h]YZ]j`Yfk`i`fnY`hYb`?i`hi`f`XYf`:`UghZfYi`bXgW`UZ`h`đ`XYb`Y`hnhYb
nY\`b`đ\`fYb`\Uh]g]W`Y`XcW`Y]b`VYa`Yf`_Ybgk`YfhYf`K`UbXY`

j c`nc[Yb. 'K Y`bYgg!F YhfYUhg'g]bX'ni 'Y]bYa 'nYbhfU'Yb
6YghUbXhY]'XYg'hci f]gh]gWXYb'5b[YVchg[Yk cfXYb"J cb'Mc[U!
NYbhfYb'j]b'XYb' [fØbYb'<Ø[Y`b'j cb'I Vi X'V]g'\]b'ni 'i I i f]ØgYb
GdU!F Ygcfhg'Ub'XYb'?ØghYb'j cb'GYa]bmU_ 'X]Y'J]Y`ZU'h'XYf
Dfc[fUa a Y'gd]Y[Y'h'XYb'k UWgYbXYb'K i bgW'k]XYfž? ØfdYf'i bX
; Y]gh]b'9]b'_Ub['ni 'Vf]b[Yb"'GhUh]gh]_Yb'nY][YbžXUgg'XYf' [`cVU'Y
K Y`bYgg!Hci f]ga i g'Vcca hž'i bX'6U]'ghY\h'Ub'j cfXYfghYf': fcbh
X]YgYf'6Yk Y[i b[ž]bXYa 'Yg'À\f'W' HUi gYbXY'j cb'6Ygi WXYfb
k]`_ca a Yb'\Y]» hž'X]Y' bUW' F Y[YbYfUh]cb'gi WXYb"

K Ug'hfY]Vh'X]YgYb'HfYbX'Ub3' ð'Y]bYf'K Y'hž'X]Y'j cb'GhfYgg'i bX
X][]hU'Yf', VYf'Ughi b[[YdfÀ[h]ghž'gY\ bYb'g]W']a a Yf'a Y\ f
A YbgWXYb' bUW' Y]bYa ' ; Y[Ybdc"'6U]'V]YhYh'[YbUi 'XUg. Y]bYb
Cfhž'Ub'XYa 'a Ub'UVgWU'hYb'i bX'g]W'Ui ZXUg'K YgYbh]WXY
_cbnYbhf]YfYb'_Ubb"J]Y`Y'F YhfYUhg'_ca V]b]YfYb'hfUX]h]cbY`Y
VU]bYg]gWXY'<Y]a Yh\cXYb'k]Y'A UggU[Yb'a]h?fÀi hYfØ'Yb'cXYf
gd]f]hi Y`Y'F Y]b][i b[gnYfYa cb]Yb'a]h'a cXYfbYb'5bgÀhYb'k]Y
A]bXZ' bYgg!HfU]b]b['cXYf'8Yhcl !Dfc[fUa a Yb"'8]YgY'Gma V]cgY
Ui g'5'h'i bX'B Yi 'gdf]W'h'Y]b'VfY]hYg'Di V`_i a 'Ub' 'j cb
[YghfYgghYb' ; fc» ghÀXhYfb'V]g'\]b'ni 'gd]f]hi Y`Yb'Gi WXYbXYb"
D`UhhZcfa Yb'k]Y' **6cc_F YhfYUhg** nY][Ybž'k]Y' [fc» 'X]Y' B UW ZfU[Y
]ghž]bXYa 'g]Y'Y]bY'J]Y'nU\`j cb'Dfc[fUa a Yb'k Y'hk Y]h'UbV]YhYbž
XUfi bhYf'Ui W'nU\`fY]WXY'Ui Z'6U]ž'X]Y'ZYI]VY`Ub'X]Y'6YXØfZb]ggY
XYf'; ÀghY'Ub[YdUggh'k YfXYb'_ØbbYb"

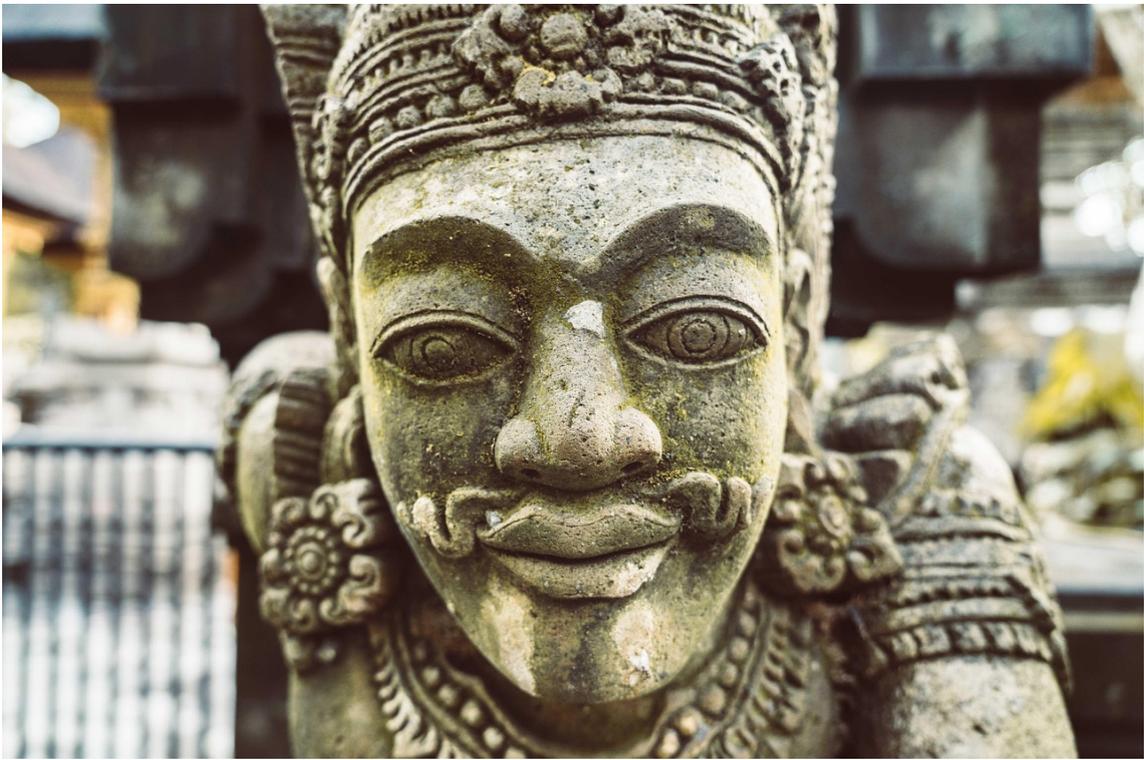
9]b'k Y]hYfYf'5gdY_hž'XYf'6U]'gc'VYgcbXYfg'a UW'hž]gh'X]Y
Ni [Àb[`]W_X]h'X]YgYf'9fZU\fi b[Yb"'9g[]Vh'5b[YVchY'ZØf'YXYg
6i X[Yh' 'j cb'Y]bZUWXYb'5g\ fUa gž]b'XYbYb'a Ub'ZØf'k Yb][; Y`X
Ub' [YZØ\fhYb'A YX]hUh]cbYb'hY]'bY\ a Yb'_Ubbž'V]g'\]b'ni
YI _i g]j Yb'F Ygcfhgž'X]Y'dYfgcbU]g]YfhY'K Y`bYgg!DU_YhY
gWbØfYb"'8]Y' ðgY`\Uh'g]W' U'g'Y]b' Cfh'YhUV'Yfhž'Ub'XYa '@ I i g
i bX'9]bZUW\Y]h'< UbX'j]b'< UbX' [Y\Yb"'K À\ fYbX'Y]b][Y'F YhfYUhg
Ui Za]b]a U]gh]gWXY'F ØW_ni [gcfhY'gYhnYbž'X]Y'XYb': c_i g'Ui Z
]bbYfY'9]b_Y\`Y[Ybž'V]YhYb'UbXYfY'Y]b'i a ZUggYbXYg'Dfc[fUa a
a]h'Mc[Už'9fbÀ\fi b[gVYfUhi b['i bX'gc[Uf'_i `hi fY`Yb'5i gZØ[Yb
ni '\Y]][Yb'GhÀhhYb"'8]YgY'6UbXVfY]hY'a UW'h'Yg'a Ø[`]W'ž'XUgg
YXYf' [YbUi 'XUg'Z]bXYhž'k Ug'Yf'gi W'h"

8]Y`6YXYi hi b[`j cb`K Y`bYgg!F YhfYUhg`Ui Z`6U`][Y`h`YXcW`ØVYf
XYb`]bX]j]Xi Y`Yb`Bi hnYb`\\]bUi g``G]Y`hfU[Yb`Ui W`ni f`c`_U`Yb
K]fhgW`UZh`VY]`i bX`ZØfXYfb`bUW`\\U`h][Yb`Hci f]ga i g``J]Y`Y
NYbhfYb`UfVY]hYb`Yb[`a]h`VU`]bYg]gW`Yb` ; Ya Y]bgW`UZhYb
ni gUa a YbžgY]`Yg`Xi fW`X]Y`6YgW`ÅZh][i b[`c`_U`Yf`H`YfUdYi hYb
cXYf`XYb`9]bgUhn`fY[]cbU`Yf`DfcXi _hY`]b`]\fYb`?ØW`Yb`
; `Y]W`nY]h][`k ÅW`gh`XUg`6Yk i gghgY]b`ZØf`I a k Y`hgW`i hnžXU
nU`\\fY]W`Y`F YhfYUhg`Ui Z`2`_c!Df]bn]d]Yb`gYhnYb` `j cb
gc`UfVYhf]YVYbYb`5b`U[Yb`V]g`\\]b`ni `d`Ugh]_ZfY]Yb`ϕ]h]Uh]j Yb`
8]YgYf`[Ub`n`Y]h`]W`Y`5bgUhn`gd]Y[Y`h`X]Y`VU`]bYg]gW`Y`D`\\]`cgcd`\\]Y
j cb`Hf]`<]hU`?UfUbU`k]XYfž`X]Y`<Ufa cb]Y`nk]gW`Yb`A YbgW`ž`B Uhi f
i bX`Gd]f]hi U`]h`h`VYhcbh`

9]b`6`]W`_Ui ZX]Y`]bhYfbUh]cbU`Y`K Y`bYgg!GnYbY`nY][hž`XUgg`6U`]
b]W`h`U`Y]b`ghY`\\hž`XcW`X]Y`ϕgY`V`Y]Vh`Y]bn][Ufh][`]b`]\fYf
5ha cgd`\\ÅfY`i bX`5i h`Yb]n]h`h`K Å`\\fYbX`UbXYfY`8Ygh]bUh]cbYb
k]Y`A`Yi]_c`a]h`VYY]bXfi W`_YbXYb`5b[YVchYb`Ui Zk UfhYb` `Yhk U
`i I i f]ØgYb`GdU!DU`_YhYb`i bX`]bbc] Uh]j Yb` :]hbYggdfc[fUa a Ybž
k]Y`g]Y`]b`Y]bYa`5fh]_Y`j cb`<UfdYf g`6UnUuf`VYgW`f]YVYb
k YfXYb` `V]YhYh`6U`]Y]bY`_i `hi fY`Y`H]YZž`X]Y`gW`k Yf`ni
ØVYfhfYZZYb`]gh`8]Y`gd]f]hi Y`Y`9bYf[]Yž`X]Y`]b`YXYa`HYa dYž
YXYa`FY]gZY`X`i bX`YXYf`6Y[Y[bi b[`gdØfVUf`]ghž]Yf`Y]`h`XYb
F YhfYUhg`\\]Yf`Y]bY`VYgcbXYfY`A U[]Y`

I bX`gc`V`Y]Vh`X]Y`ϕgY`Y]b`Cfhž`Ub`XYa`a Ub`b]W`h`bi f
9bhgdUbbi b[`Z]bXYhž`gcbXYfb`Ui W``ϕgd]fUh]cb``8]Y`J]Y`ZU`h`XYf
K Y`bYgg!F YhfYUhg`ÅXh`XUni`Y]bž`g]W`Ui ZY]bY`FY]gY`ni`VY[YVYbž
X]Y`k Y]h`ØVYf`XUg`\\]bUi g[Y`hž`k Ug`a Ub`]b`Y]bYa` `_Ugg]gW`Yb
I f`Ui V`Yf`YVh`9g`]gh`Y]b`Fi Zž]g]W`a]h`XYf`Y][YbYb`9ggYbn`ni
j YfV]bXYbž`]ba]hYb`Y]bYf`@UbXgW`UZh`X]Y`gY`Vgh`k]Y`Y]b
<Y]`a]hY`k]f`h`

8]Y`\\Y]`YbXY`? fUZh`XYf`VU`]bYg]gW`Yb`? i`hi f



I bhYf`Y]bYa`i fU`hYb`6UbmJbVUi a`g]hnh`Y]b`6U`]Ubž`Y]b
hfUX]h]cbY`Yf`<Y]`Yfž`i bX`VYfY]hYh`a`]h`fi` \][`Ybž`VYXUW`hYb
6Yk`Y[i b[`Yb`Y]b`?fÄi`hYfY`]l`]Yf`ni` "G`Y]bY`<Ä`bXYž`[`YnY]W`bYh`j`cb
`U`fn`Y`b`h`Y`Ub[`Yf`9fZU`fi`b[`ž`a`]gW`Yb`?i`f`_i`a`U`i`bX``⊕[`k`Yf`ni
Y]bYa` `Y]`YbXYb`Hcb]_i`a`ž`k`Ä`fYbX`Y]gY` ;`YVYh`X]Y`@`Zh
YfZ`Yb`"5i`Z`6U`]`g]bX`gc`W`Y`GnYbYb`_Y]bY`GY`hYb`Y]h`i`g]Y`g]bX
XYf`<YfngW`U[`Y]bYf`?i`h`i`fž`X]Y`<Y]i`b[`U`g`?i`bgh`i`bX
Gd]f]hi`U`]hÄ`h`j`Yfgh`Y`h`"8]YgY`h]Y`Z`j`Yfk`i`fn`Y`hYb`DfU`_h]_Ybž`X]Y`ØVYf
;`YbYfUh]cbYb`k`Y]hYf[`Y[`YVYb`k`i`fXYbž`V]`XYb`XUg`:`i`bXUa`Yb`h
j`]Y`Yf`a`cXYfbYf`K`Y`bYgg!5b[`YVch`Y`Ui`ZXYf`⊕gY`i`bX`j`Yf`Y]Y`b
]`bYb`Y]bY`5i`h`Yb`h]n]hÄ`hž`X]Y`k`Y]h`ØVYf`cVYfZ`ÄW`]W`Y
9bhgdUbbi`b[`Y]bUi`g[`Y`h`"

⇒`A`]hY`di`b`_h`XYf`VU`]bYg]gW`Yb`<Y]`_i`bgh`ghY`h`XUg`?`cbnY`dh
j`cb`i`gUXU`6U`ž`Y]b`a`YX]n]b]gW`Yg`Gmgh`Ya`ž`XUg`<Ufa`cb]Y
nk`]gW`Yb`?`ØfdYfž` ;`Y]gh`i`bX`i`a`k`Y`h`UbghfYVh`"J`Yfk`i`fn`Y`h]b
`]bXi`]gh]gW`!Vi`XX`]gh]gW`Yb`@`Y`fYbž`_ca`V]b]Yfh`Yg
?fÄi`hYfa`YX]n]b`a`]h`A`UggU[`Ybž`A`YX]hUh]cb`i`bX`gd]f]hi`Y`Yb
F]hi`U`Yb`"@`_U`Y`<Y]`Yfž`c`Zh`U`g`6U`]`Ubg`VY`_Ubbhž`g]bX`<ØhYf
X]YgYg`K`]ggYbg`i`bX`gd]Y`Yb`Y]bY`nYbhfU`Y`F`c`Y`]b`XYf
;`Ya`Y]bgW`UZhž`VYgcbXYfg]b`Ä`bX`]W`Yb` ;`YV]YhYbž`k`c`g]Y`ZØf`j`]Y`Y
X]Y`Y]bn][`Y`YfgW`k`]b[`]W`Y`a`YX]n]b]gW`Y`<]`ZY`XUfghY`Yb`"⇒`fY
A`Y`h`cXYb`n]Y`Yb`b]W`h`bi`f`Ui`Z`_ØfdYf`]W`Y`6YgW`k`YfXYb`UVž`

gcbXYfb`Ui W`Ui Z`gYY`]gWY`6`cW_UXYbž`i a`Y]b`i a`ZUggYbXYg
;`Y]W[Yk`]W`hni`gW`UZZYb"

9]b`k`YgYb`h]W`Yf`6`YghUbXhY]`X]YgYf`HfUX]h]cb`]gh`X]Y`J`Yfk`YbXi`b[
Y]b`Y]a`]gW`Yf`DZUb`nYb" `>Ja`i`ž`Y]b`?`f`Ai`hYf`hcb]_i`a`ž`k`]fX`Ui`g
Ni`hUhYb`k`]Y`N]h`fcbYb[`fUgž`HUa`Uf]bXY`i`bX`j`YfgW`]YXYbYb
K`i`fnY`b`Yf[`YghY`h`i`bX`X]Yb`h`U`g`b`UhØf`]W`Yg`A`]hY`ni`f`Gh`A`f`_i`b[
XYg`?`ØfdYfg" `8`]YgY`F`YnYd`hY`ž`c`Zh`a`ØbX`]W`ØVYf`]YZYfhž`gd]Y[`Y`b
Y]b`Y`h]YZY`J`YfVi`bXYb`Y]h`a`]h`XYf`BUhi`f`k`]XYf" `9VYb`gc`VYXYi`hYbX
]gh`X]Y`VU`]bYg]gW`Y`A`UggU[`Yž`X]Y`Xi`fW`5`_i`dfYggi`f`i`bX`gUbZ`hY
6Yk`Y[`i`b[`Yb`XYb`9bYf[`]YZi`gg]a`?`ØfdYf`Ub`fY[`h`G]Y`gc`b`]W`h
bi`f`A`i`g`_Y`b`c`W`Yfb`ž`gcbXYfb`Ui`W`XYb`b`UhØf`]W`Yb`F`mh`a`i`g
k`]YXYf`Y`fghY`Yb`ž`k`]Y`Yg`]b`Y]bYa`Ui`gZØ`f`]W`Yb`@]hZUXYb`Ui`Z
6U[i g`6U`]VYgW`f]YVYb`k`]fX"

B`YVYb`_ØfdYf`]W`Yb`6Y`UbX`i`b[`Yb`gd]Y`Yb`gd]f]hi`Y`Y
NYfYa`cb]Yb`Y]b`Y`hfU[`YbXY`F`c`Y" `8]Y`A`Y`i`_Uh`F`Y]b][`i`b[`ž`A`i`Z][
]b`HYa`dY`b`a`]h`Y]`][`Ya`K`UggYf`Xi`fW`[`YZØ`fhž`V]Y`hY`h`Y]bY
A`Ø`]W`_Y]hž`bY[`Uh]j`Y`9bYf[`]Yb`UVni`k`UgW`Yb" `HY]`bY`a`Yf
bY`a`Yb`Ub`;`YVYhYb`hY]`i`bX`Ya`dZUb[`Yb`GY[`bi`b[`Yb`ž`VYj`cf`g]Y
]b`Y]bYa`gma`Vc`]gW`Yb`6UX`Y]b`hUi`W`Yb" `Gc`W`Y`F`]hi`U`Y`[`Y`Y`b
ØVYf`XUg`D`mg]gW`Y`Y]b`Ui`g`i`bX`VYfØ`fYb`X]Y`GY`Y`ž`]bX`Ya`g]Y
Y]b`Yb`F`Ui`a`ZØf`]b`bYfY`9fbYi`Yfi`b[`gW`UZZYb" `G]Y`g]bX`Y]b
`YVYbX][`Yf`6Yk`Y]g`XUZØf`ž`k`]Y`Yb[`<Y]i`b[`i`bX`;`Ui`VY`Ui`Z`6U`]
a`]hY]b`UbXYf`j`Yf`_bØdZ`h]g]bX"

GY]h`XYf`J`YfØZZYb`h]W`i`b[`j`cb`9Uh`DfUmi`@`j`Y`Y`Uh`X]Y`Dcdi`Uf]h`A`h
X]YgYf`DfU`_h]_Yb`i`bhYf`]bhYfbUh]cb`U`Yb`6Ygi`W`Yfb`Yb`c`fa
ni`[`Yb`ca`a`Yb" `J]Y`Y`ghf`Oa`Yb`b`UW`i`Vi`Xž`XYa`gd]f]hi`Y`Yb
NYbhfi`a`XYf`b`gY`ž`i`a`<Y]Yf`k`]Y`DU`_A`Ub`c`XYf`M`b`Xf]j`cb
A`i`_]bYa`<YU`]b[`ni`_c`bgi`h]YfYb" `8]YgY`6U`]Ubg`V]Y`hYb`Y]bY
6UbXVfY]hY`Ub`6Y`UbX`i`b[`Yb`ž`j`cb`?`bcW`Yba`UggU[`Yb`V]g`Y]b`ni
YbYf[`Yh]gW`Ya`5i`g[`Y]W`ž`c`Zh`Yf[`Abnh`Xi`fW`dYfgØb`]W`Y
6YfUhi`b[`5i`W`9i`dUhg`k`]Y`9fcg`Y`ffUf]c`XYf`X`]U`Y`UVYb`g]W`]b
X]YgYf`GnYb`Y`YhUV`]Yfh`i`bX`_ca`V]b]YfYb`hfUX]h]cb`Y`Y`5bg`A`hY`a`]h
a`c`XYfb`Yf`9bYf[`]YUfVY]hž`k`]Y`Ui`Z`**bXc`>`b`_]Y`XYhU]`Yfh**
VYgW`f]YVYb`k`]fX" `8]YgY`J`]Y`ZU`h`nY][`hž`k`]Y`YVYbX][`i`bX
UbdUggi`b[`gZ`A`][`X]Y`<Y]`_i`bgh`Ui`Z`6U`]V`Y]Vh"

8Yf'9]bZi gg'X]YgYf'U'hYb'A Yh\cXYb'Ui ZnY]h[YbØgg]gWXY'K Y''bYgg!
DfU_h]_Yb']gh'i bj Yf_YbbVUF" J]Y'Y'F YhfYUhg']bhY[f]YfYb
VU`]bYg]gWXY'A UggU[Yb'i bX'?'fÅi hYfVY\UbX'i b[Yb']b']\fY
Dfc[fUa a Yž'cZi'_ca V]b]Yfh'a]h'Mc[U'cXYf'A]bXZi `bYgg! , Vi b[Yb"
Gd]f]hi Y''Y'F Y]b][i b[Yb'k]Y'A Y'i _Uh'k YfXYb'ZØf']bhYfbUh]cbU'Y
; ÅghY'ni [Åb[`]W [Ya UW hž]bXYa 'g]Y']b'_i `hi fY''Y'5i gZØ[Y
Y]b[YVYhYh'k YfXYb"'GY`Vgh'8Yhc! !?i fYbž'X]Y']b'k Ygh]WXYb
@ÅbXYfb'dcdi `Åf'g]bXž'[fY]ZYb'\]Yf'Ui Z'hfUX]h]cbY''Y' :Ja i !F YnYdhY
ni fØW_ž'i a `XYb'? ØfdYf'Ui Z'bUhØf']WXY'K Y]gY'ni `Ybh[]ZhYb"'8]YgY
J YfgW a Y'ni b['j cb'J Yf[Ub[Yb\Y]hi bX'; Y[Ybk Ufh'gW UZh'Y]b
5b[YVchž'XUg'gck c\`Ui h\Ybh]gW `U'g'Ui W `fY'Yj Ubh'ZØf'a cXYfbY
6YXØfZb]ggY ']gh"

8]Y': Ugn]bUh]cb'ZØf'VU`]bYg]gWXY'<Y]a Yh\cXYb''Y[h'Ui W `]b']\fYf
[Ubn\Y]h]WXYb'G]W h'k Y]gY"'<]Yf'k]fX'b]W h'bi f'Y]b'Gma dhca
VY\UbXY'hž'gcbXYfb'XYf'A YbgW `U'g'; UbnYg'VYhfUW hYh"'8]YgY
D\]`cgcd\]Y'Z]bXYh'ni bY\ a YbX'5b'_Ub[']b'Y]bYf'K Y'hž'X]Y'bUW
bUW\U'h][Yb'i bX'VYXYi hi b[gj c''Yb'5bgÅhYb'ni f'; Ygi bX\Y]h
gi W h"'K Y''bYgg!F YhfYUhg'Ui Z'6U`]'V]YhYb'gca]h'b]W h'bi f'Y]bY
: `i W h'Ui g'XYa '5`hU[ž'gcbXYfb'Ui W `Y]bY'6Y[Y[bi b['a]h'Y]bYf
?i `hi fž'X]Y'<Y]i b['U'g'@YVYbgk Y]gY'j YfghY'h"

8]Y'6Y[Y[bi b['a]h'Y]bYa '6U`]Ub'cXYf'X]Y'HY]'bU\ a Y'Ub'Y]bYf
NYfYa cb]Y'_Ubb'Y]bY'h]YZ[fY]ZYbXY'9fZU\fi b['gY]bž'X]Y'ØVYf'XYb
5i ZYbh\U'h'\]bUi g'bUW k]f_h''9g']gh'Y]b': YbghYf'ni `Y]bYf'K Y'hž']b
XYf'NY]hi bX'HfUX]h]cb']bY]bUbXYf[fY]ZYbž'i bX'Y]b'9]bV`]W_ž'k]Y
X]YgY'DfU_h]_Yb'k Y]hYf\]b'X]Y'K Y''bYgg!@UbXgW UZh'XYf' :bgY`
dfÅ[Yb"

Hcd `K Y''bYggF YhfYUhg']b'6U`]



GhY`Yb`G]Y`g]W`j cfž`k]Y`X]Y`YfghYb`GcbbYbghfU\`Yb`Xi fW`XUg
X]W`hY`6`À`hYfXUW`Y]bYg`hfc]g]W`Yb`K U`XYg`VfYW`Yb`i bX`Y]bY
j YfghYW`hY`C UgY`Ui g`Fi \Y`i bX`9fbYi Yfi b[`Ybh\Ø`Yb"; YbUi
gc`W`Y`a U[]g]W`Yb`C fhY`Z]bXYb`g]W`Ui Z`6U`ž`k c`K Y`bYgg!
F YhfYUhg`b]W`h`bi f`F`ØW`ni [gcfhYž`gcbXYfb`k U\`fY`HYa dY`XYf
FY[YbYfUh]cb`g]bX" J cb`XYb`[fØbYb`<Ø[Y`b`I Vi Xg`V]g`ni `XYb
g]W`ja a YfbXYb`?ØghYb`ja `GØXYb`V]YhYh`X]Y`b`gY`Y]bY
VYY]bXfi W`YbXY`J]Y`ZU`h`Ub`NYbhfYbž`X]Y`? ØfdYfž; Y]gh`i bX`GY`Y`Y
Ui ZY]bn][Ufh][Y`K Y]gY`UbgdYfW`Yb"8]YgY`\UbXj Yf`YgYbYb
8Ygh]bUh]cbYb`j YfY]bYb`VU`]bYg]g]W`Y`HfUX]h]cbYb`a]h`a cXYfbYb
5bg`À`hYb`i bX`UXYb`XUni `Y]bž`g]W`Ui ZY]bY`hfUb`gZcfa Uhj Y`FY]gY
ni `VY[YVYb"

9]bYf`XYf`\YfUi gfU[YbXYb`C fhY`]gh`XUg`7CA C`G`Ua V\U`U`9ghUhYž
Y]b[YVYhYh`]b`XYb`Ødd][Yb`8g]W`i b[Y`bU\Y`I Vi X" I a [YVYb`j cb
: `ØggYb`i bX`[fØbYb`H`À`Yfbž`k]Xa Yh`g]W`X]YgYg`FYZ []i a
[Ub`n\Y]h`]W`Yf`<Y]i b[`a]h`a U» [Yg]W`bY]XYfhYb`Dfc[fUa`a Yb`k]Y
7`YUb`gY`cXYf`5mi fj YX]W`; `ÀghY`_ØbbYb`g]W`Ui Z`6]c!`?ØW`Y
ZfYi Ybž`Ub`K cf`g\`cdg`hY]`bY\`a Yb`cXYf`]b`bUhØf`]W`Yb
: Y`gVYW`Yb`YbhgdUb`bYb"5_h]j]h`À`hYb`k]Y`A`ci`bhU]bV]_]b[`i bX
J i`_Ub`hfY_]b[`Yf[`À`bnYb`XUg`5b[YVchi bX`a UW`Yb`Yg`ni `Y]bYa
C fhž`Ub`XYa`6Yk Y[i b[`i bX`]bbYfY`9]b_Y`f`<UbX`]b`<UbX`[Y\Yb"

B]W h'k Y]h'Y b h ZY f b h'`Y[h'X Ug':]j Y`Ya Y b h g'F Y h f Y U h'6 U`]U a `5 m i b [F]j Y f ž'Y]b`Y W c! V Y k i g g h Y g' <]X Y U k U m ž'X U g' h]Y Z']b`V U`]b Y g]g W Y b H f U X]h]c b Y b'j Y f k i f n Y`h'j g h" <]Y f'g h Y \ Y b`D f c [f U a a Y`k]Y`X Y f < c`]g h]W 8 Y h c l`F Y h f Y U h'c X Y f`X Y f'7 i`]b U f m'F Y h f Y U h'j a`J c f X Y f [f i b X ž Y f [Ā b n h'X i f W`a Y X]h U h]j Y': Y i Y f n Y f Y a c b]Y b'i b X'd Z U b n`]W X ; Y f]W h Y"8]Y`f i \][Y b' < Y]i b [g f Ā i a Y`U a`':`i g g i Z Y f'g W U Z Y b`Y]b Y 5 h a c g d \ Ā f Y ž'X]Y`G h f Y g g'Z Ò f a`]W X`U i Z Ò g h"8]Y g Y g`N Y b h f i a`n Y][h ž k]Y`b U W \ U`h][Y g'8 Y g][b'i b X'g d]f]h i Y`Y`D f U_h]_Y b`\ U f a c b]g W j Y f g W a Y`n Y b`_Ò b b Y b"

: Ø f`X]Y`Y b][Y b ž'X]Y`@ l i g'a]h'k Y`b Y g g'j Y f V]b X Y b`a Ò W h Y b ž Ò Z b Y h'X U g': c i f`G Y U g c b g'F Y g c f h'6 U`]U h'G U m U b`g Y]b Y`D Z c f h Y b]b a]h Y b`X Y f`V U`]b Y g]g W Y b`K`j`X b]g"8 U g'G U W f Y X`F]j Y f`G d U ž`U i g`c`_U`Y a`6 U a V i g'[Y Z Y f h][h ž V]Y h Y h'i b [Y k Ò \ b`]W X Y`6 Y \ U b X'i b [Y b k]Y`5 b h]! G W k Y f_f U Z h! < Ā b [Y a U h Y b`c X Y f' < c h! F c W`! A U g g U [Y b" 7 \ U_f U! N Y f Y a c b]Y b'i b X`M c [U! G Y g g]c b g'f i b X Y b`X U g'9 f`Y V b]g`U V ž k Ā \ Y b X`X]Y`U h Y a V Y f U i V Y b X Y`l a [Y V i b [`Y]b Y`g h Ā b X][Y 9 f]b b Y f i b [`U b`X]Y`G W Ò b \ Y]h'X Y f`B U h i f`]g h" G c`W X Y`C f h Y`V Y k Y]g Y b ž X U g g'9 f \ c`i b [`U i W`]b`c d i`Y b h Y a`F U \ a Y b`h]Y Z [Y \ Y b X`g Y]b`_U b b"

K Y f`b U W X`Y]b Y a`]b h]a Y f Y b`F U \ a Y b`g i W h ž'k]f X`V Y]`H \ Y`5 g U`A U]U Z Ò b X][ž'Y]b Y a`6 c i h]e i Y! F Y g c f h'a]h'b i f`n Y \ b`G i]h Y b" <]Y f'g h Y \ Y b V U`]b Y g]g W Y`A U g g U [Y b ž'G C A 5! 5 h Y a h Y W b]_Y b'i b X`D f c [f U a a Y k]Y`F Y g h /`F Y g Y h]a`A]h Y`d i b`_h"8]Y`d Y f g Ò b`]W X Y`5 h a c g d \ Ā f Y Y f`U i V h`Y g ž`U i Z]b X]j]X i Y`Y`6 Y X Ø f Z b]g g Y`Y]b n i [Y \ Y b ž'i b X`a U W h`Y X Y b`5 i Z Y b h \ U`h'ni`Y]b Y f`a U » [Y g W b Y]X Y f h Y b`F Y]g Y`ni f`]b b Y f Y b 6 U`U b W" `G c`W X Y`_Y]b Y f Y b`F Ø W_ni [g c f h Y`V]Y h Y b`c Z h`Y]b Y V Y g c b X Y f Y`B Ā \ Y`ni f`? i`h i f`i b X`X Y b`A Y b g W X Y b`X Y f` ð g Y"

9]b Y b`U b X Y f Y b`5 b g U h`j Y f Z c`[h'9 g W U d Y` < U j Y b ž'Y]b`Y i`_i`g]j Y g F Y h f Y U h'bi f`Z Ø f': f U i Y b ž'X U g'g]W X`X i f W`Z Y i]V`Y`N Y]h d`Ā b Y`i b X d Y f g c b U`]g]Y f h Y`K Y`b Y g g! D U`_Y h Y`U i g n Y]W X b Y h" `C V`M c [U ž A Y X]h U h]c b`c X Y f`G d U! 6 Y \ U b X`i b [Y b`' \]Y f`_Ò b b Y b ; Ā g h Y` \ f D f c [f U a a`b U W X`@ g h i b X`@ U i b Y [Y g h U`h Y b"8]Y g Y': f Y] \ Y]h ž _c a V]b]Y f h'a]h`i l i f]Ò g Y a`? c a Z c f h ž'g d f]W X h V Y g c b X Y f g`X]Y`Y b][Y b U b ž'X]Y`b`Y]b Y f`i b h Y f g h Ø h n Y b X Y b ; Y a Y]b g W X U Z h`b Y i Y`9 b Y f []Y h U b`_Y b`a Ò W h Y b"

ϕ`XYb`K`À`XYfb`j`cb`l`Vi`X`j`Yfv]f[`h`g]W`6U[`i`g`Jh]ž`Y]b`C`fhž`XYf`
g]W`XYf`J`Yfv]b`Xi`b[`j`cb`?`Øfd`Yf`i`b`X`;`Y]gh`Xi`f`W`M`c[`Už`5mi`fj`Y`XU`
i`b`X`A`Y`X]h`Uh]c`b`j`Y`fg`W`f]Y`V`Y`b`U`h`A`]h`Z`Ø`b`Z`j`Y`fg`W`]Y`X`Y`b`Y`b`F`Y`hf`Y`Uh`
DU`_`Y`h`Y`b`_`Ø`b`b`Y`b`6`Y`gi`W`X`Y`f`U`i`g`Y`]b`Y`f`J`]Y`n`U`U`j`c`b`9`f`Z`U`fi`b[`Y`b`
k`À`Y`b`ž`X]Y`U`Y`j`c`b`X`Y`f`i`a`[`Y`V`Y`b`X`Y`b`B`U`h`i`f`]b`gd]f]Y`f`h`g]b`X`"8`]Y`
5V[`Y`g`W`]Y`X`Y`b`Y`]h`X]Y`g`Y`g`N`Y`b`h`f`i`a`g`À`X`h`X`U`n`i`Y`]b`ž`X`Y`b`@`A`f`a`X`Y`f`
K`Y`h`Y`]b`h`Y`f`g]W`ni`U`gg`Y`b`i`b`X`g]W`[`U`b`n`U`i`Z`X]Y`Y`[`Y`b`Y`F`Y`]g`Y`ni`
_`c`b`n`Y`b`h`f]Y`f`Y`b`"

9]b`Y`i`a`Z`U`gg`Y`b`X`Y`_`V`Y`fg]W`h`Ø`V`Y`f`g`c`W`X`Y`]b`gd]f]Y`f`Y`b`X`Y`b`C`f`h`Y`
Z]b`X`Y`b`ϕ`h`Y`f`Y`gg]Y`f`h`Y`U`i`Z`D`U`h`h`Z`c`f`a`Y`b`k`]Y`8`Y`gh]b`Uh]c`b`8`Y`i`I`Y`ž`
X]Y`Y`]b`Y`@]gh`Y`X`Y`f`%)`V`Y`gh`Y`b`K`Y`b`Y`gg!`F`Y`hf`Y`U`hg`U`i`Z`6`U`]
V`Y`f`Y`]h`À`h`J`c`b`X`c`f`h`U`i`g`U`gg`Y`b`g]W`k`Y`]h`Y`f`Y`D`Y`f`Y`b`k`]Y`X`U`g`
Gi`_`U`j`U`h]5`mi`fj`Y`X]W`F`Y`hf`Y`U`h`/`G`d`U`Y`b`h`X`Y`W`_`Y`b`ž`X`U`g`a`]h`
a`U`»[`Y`g`W`b`Y`]X`Y`f`h`Y`b`J`Y`f`Ø`b[`i`b[`g`d`f`c[`f`U`a`a`Y`b`i`b`X`6]c`!
A`U`U`n`Y`]h`Y`b`n`k`]g`W`Y`b`F`Y`]gh`Y`ff`U`gg`Y`b`i`b`X`8`g`W`i`b[`Y`c`W`h`9`V`Y`b`g`c`
`c`b`h`g]W`Y`]b`6`]W`_`U`i`Z`9I`c`h]W`J`c`m`U[`Y`g`ž`k`c`k`Y`]h`Y`f`Y`
9a`d`Z`Y`i`b[`Y`b`k`]Y`X`U`g`A`U`m`U`I`Vi`X`F`Y`g`c`f`h`/`G`d`U`j`c`f[`Y`gh`Y`h`
k`Y`f`X`Y`b`ž`X`U`g`a`]h`h`f`U`X]h]c`b`Y`Y`b`V`U`]b`Y`g]g`W`Y`b`H`Y`W`b]_`Y`b`i`b`X`
Y`]b`Y`a`M`c[`U`!`N`Y`b`h`f`i`a`a`]h`6`]W`_`U`i`Z`F`Y`]g`Z`Y`X`Y`f`V`Y`[`Y`]gh`Y`f`h`"

8]Y`J`]Y`Z`U`h`X]Y`g`Y`f`F`Y`hf`Y`U`hg`gd]Y[`Y`h`k`]X`Y`f`ž`k`]Y`Z`U`W`h`h`Y`b`f`Y`]W`
K`Y`b`Y`gg`U`i`Z`6`U`]g`Y`]b`_`U`b`"C`V`Y`g`X]Y`gd]f]h`i`Y`Y`H]Y`Z`Y`Y`]b`Y`g`
C`f`h`Y`g`k`]Y`C`b`Y`k`c`f`X`F`Y`hf`Y`U`hg`a`]h`g`Y`]b`Y`a`G][`b`U`h`i`f`Y`!`D`f`c[`f`U`a`a`
9`g`W`d`Y`H`Y`K`c`f`X`]gh`c`X`Y`f`X]Y`]b`h`Y`[`f`U`h]j`Y`<`Y`f`U`b[`Y`Y`b`g`k`Y`]g`Y`j`c`b`
C`W`U`b`G`c`i`F`Y`hf`Y`U`h`a`]h`5`b[`Y`V`c`h`Y`b`k`]Y`f`Y`Y`X]j`]b[`i`b`X`D]U`h`Y`g`
Y`X`Y`8`Y`gh]b`Uh]c`b`U`h`]f`Y`b`Y`[`Y`b`Y`b`7`U`f`U`_`h`Y`f`8]Y`g`Y`C`f`h`Y`g]b`X`
a`Y`f`U`g`bi`f`i`b`h`Y`f`_`Ø`b`ž`Y`/`g]Y`g]b`X`9]b`U`X`i`b[`Y`b`ž`g]W`g`Y`V`gh`U`i`Z`
b`Y`i`Y`K`Y`]g`Y`ni`V`Y`[`Y`[`b`Y`b`ž`]b`a`]h`h`Y`b`Y`]b`Y`f`ϕ`g`Y`ž`X]Y`g`Y`V`gh`Y`]b`
<Y`]f`U`i`a`ni`g`Y`]b`g`W`Y`]b`h`"

M`c[`U`i`b`X`A`Y`X]h`Uh]c`b`]b`6`U`]



5a 'F UbXY`Y]bYg'gh]`Yb`FY]gZY`XYgžk Å\ fYbX`XYf`A cf[Yb`bcWk`]b
nUfhYa`BYVY`[Y\Ø`h`]ghž`fc`Yb`; ÅghY`]\fY`A UhhYb`Ui`g`i`bX`Uha`Yb
h]YZ`X]Y`Zf]gWk`Y`@`Zn`6U`]g`Y]b`" `#`X]YgYa`A`ca`Ybh`VY`[]bbh`Y]bY
FY]gY`bUWk`]bbYbž`[YZØ`fh`Xi`fWk`X]Y`?`i`bgh`XYg`Mč[U`i`bX`X]Y
?`fUZh`XYf`A`YX]hUh]cb`"8]Y`K`Y`bYgg!F`YhfYUhg`Ui`Z`XYf`#`gY`V]YhYb
Y]bY`VYY]bXfi`w`YbXY`DU`YhhY`Ub`DfU`h]_Ybž`X]Y`j`cb
^U`fhUi`gYbXYU`hYb`HfUX]h]cbYb`V]g`^]b`ni`a`cXYfbYb`5bgÅhnYb
fY]Wk`Yb`"<]Yfž`]ba`]hhYb`hfc`d]gWk`Yf`GWk`Öb`Y]hž`Z]bXYb`Gi`Wk`YbXY
bUWk`]bbYfYa`:`f]YXYb`Y]bY`J]Y`nU`^`j`cb`K`Y[Ybž`i`a`?`ÖfdYf`i`bX
;`Y]gh`]b`9]b`_Ub[`ni`Vf]b[Yb`"

9]b`k`Y]h]Y`fVfY]hYhYf`Gh]ž`XYf`]b`j`]Y`Yb`VU`]bYg]gWk`Yb`NYbhfYb
Ub[YVchYb`k`]fXž`]gh`J]bmUgU`Mč[Už`c`Zn`U`g`:``ck`Mč[U`VYnY]Wk`bYh`
8]YgY`XmbUa`]gWk`Y`DfUI`]g`gmbWk`fcb]g]Yfh`5hYa`i`bX`6Yk`Y[i`b[ž
k`cXi`fWk`Y]b`Z]Y»`YbXYf`F`m\`a`i`g`YbghY`hž`XYf`gck`c`VY`YVh
U`g`Ui`Wk`VYfi`^][`h`≠XYU`ZØf`A`YbgWk`Yb`U`Yf`9fZU`fi`b[gghi`ZYbž
V]YhYh`J]bmUgU`Y]bY`A`Ö[`]Wk`_Y]hž`g]Wk`_ÖfdYf`]Wk`ni`ZcfXYfb`i`bX
[`Y]Wk`nY]h][`5Wk`hgUa`_Y]h`ni`_i`h]j`]YfYb`"C`fhY`k`]Y`XUg`7`CA`C
G`Ua`V`U`U`9ghUhY`]bhY[f]YfYb`X]YgYb`Gh`]b`]\fY`Dfc[fUa`a`Yž`i`a
XYb`;`ÅghYb`Y]b`;`YZØ`^`j`cb`@VYbX][`_Y]h`i`bX`6U`UbWk`ni
j`Yfa`]hhY`b`"

: Øf`YbYž`X]Y`Y]bY`gUbZnYfY`<YfUb[Y\Yb`gk`Y]gY`VYj`cfni`[Ybž

ÖZbYh< Uh\ U'Mc [U'gY]bY'HØfYb"8]YgY'DfUI]g'_ca V]b]Yfh
? ÒfdYf\ U'hi b [Ybž'gc [YbUbbhY'5gUbUgž'a]h'5hYa ØVi b [Yb'i bX
a YX]hUhj Yb'9'Ya YbhYb" G]Y'Y][bYh'g]W\ VYgcbXYfg'ZØf'9]bghY][Yfž
X]Y'Y]bY'Ui g [Yk c [YbY'9fZU\fi b ['gi W\Ybž'VY]'XYf'k YXYf'? ÒfdYf
bcW ; Y]gh'ØVYfZc fXYfh'k YfXYb" F YhfYUhg'k]Y'6U [i g'Uh]'b' l Vi X
bi hnYb'< Uh\ Už'i a 'Y]bY'gc']XY ; fi bX'U [Y'ZØf'k Y]hYfY
9f_i bXi b [Yb']b'XYf'k Y'h'XYg'Mc [U'ni 'gW UZZYbž'cZi]ba]hYb'XYf
VYfi \ [YbXYb ; YfAi gWY'XYf'BUhi f"

K Yf'bUW\ Y]bYf'gd]f]hi Y''Yb'8]a Ybg]cb'ghfYVhž'_ØbbhY'g]W\ ni
? i bXU']b']Mc [U'\]b [Ync [Yb'ZØ\ 'Ybž'XUg']b'NYbhYb'k]Y'H\Y'D'UW
Ub [YVchYb'k]fX"8]YgY' : cfa 'n]Y'h'XUfUi Z'UVž'X]Y']bbYfY
@VYbYbYf []Y'ni 'Yfk YW_Ybž'i bX'j YfV]bXYh'_ØfdYf']WY' , Vi b [Yb
a]h ; YgUb ['i bX'a YX]hUhj Yb'HYW\ b]_Yb" G]Y'gd f]W\ h'VYgcbXYfg
'YbY'Ubž'X]Y'h]YZf']b']\fY'gd]f]hi Y''Y'GY]hY'Y]bhUi W\Yb'i bX
Ya ch]cbU'Y'6'cW_UXYb''ØgYb'a ØW\hYb"8]Y' _fUZhj c''Y
? ca V]bUh]cb'Ui g'6Yk Y [i b ['i bX'?'Ub ['gW UZZh'Y]bY'Y]bn][Ufh][Y
5ha cgd\ÅfY'XYf'HfUbgZcfa Uh]cb"

9]bY'_cbhfUghfY]W\Y'9fZU\fi b ['V]YhYh'M]b'Mc [Už'XUg'g]W\ 'Ui Z
'Ub [gUa Yž'dUgg]j Y'< U'hi b [Yb'_c b nYbhf]Yfhž'X]Y'ØVYf'a Y\ fYfY
A]bi hYb' [Y\ U'hYb'k YfXYb"8]YgY'A Yh\cXYž'\Ài Z[']b'F YhfYUhg'k]Y
:]j Y'Ya Ybhg'F YhfYUh'6U']ni 'Z]bXYbž'n]Y'h'Ui ZXUg'6]bXY [Yk YVY'UV
i bX'ZØfXYfh: 'YI]V]'hÅh'gck]Y']bbYfY'F i \Y" 'DYfZY_h'ZØf'X]Y
9f\c'i b ['bUW\]bhYbg]j Yb'HU [Ybž'Yf'Ui Vh'M]b'XYb ; ÅghYbž'g]W\
j c''ghÅbX]['ZU''Yb'ni ''UggYb'i bX'XYb'GhfYgg'XYg'5''hU [g'\]bhYf
g]W\ ni ''UggYb"

: Øf'Y]bY'ghfi _hi f]YfhY'i bX'_ØfdYf']W\ Zc fXYfbXY'DfUI]g'ghY\h
5g\hUb [U'Mc [U'VYfY]hž'XUg'Ui g'ZYgh [Y'Y [hYb'GYf]Yb'j cb
< U'hi b [Yb'VYghY\h"8]YgY']bhYbg]j Y' : cfa ž'X]Y']b' C fhYb'k]Y'? Ufa U
? UbXUfU'dfU_h]n]Yfh'k]fXž'Zc fXYfh'gck c''5i gXUi Yf'U'g'Ui W\
8]gn]d']b'i bX'Y][bYh'g]W\ ZØf'YbYž'X]Y'Y]bY'_UfY'F ci h]bY
gW\ÅhnYb"8]Y'gd]f]hi Y''Y'? ca dcbYbhYž'X]Y']b'YXYf'6Yk Y [i b [a
]hgW\ k]b [hž'a UW\h'5g\hUb [U'ni 'Y]bYa ' [Ub n\Y]h]W\Yb'9f'YVb]gž
XUg'ØVYf'XUg'D\mg]gW\Y'\]bUi g [Y\h"

B YVYb'X]YgYb'Mc [U!Gh]'Ybž'X]Y'Y]bY'VfY]hY'DU'YhY'Ub

6YXØfZb]ggYb`UVXYW_Ybž`gd]Y`Yb`A`YX]hUh]cbgdfU_h]_Yb`Y]bY
nYbhfU`Y`F`c`Y`]b`XYb`F`Y`hfY`Uhg"; YZØ\fhY`A`YX]hUh]cbYbž`c`Zi]b`XYf
HfUX]h]cb`XYf`5W`hgUa`_Y]hž`\Y`ZYb`XUVY]ž`XYb`; Y]gh`ni`VYfi`\][Yb
i`bX`]a`[Y[Y`Ybk`Åfh][Yb`A`ca`Yb`h`ni`j`Yfk`Y]`Yb`"NYbhfYb`k`]Y
CbYk`cf`X`F`Y`hfY`Uhg`V]YhYb`Dfc[fUa`a`Y`k`]Y`9gWUdY`H\Y`K`cf`X`ž`VY]
XYbYb`gc`W`Y`HYW`b]_Yb`]a`J`cfXYf[fi`bX`ghY`Ybž`i`a`]bbYfY
?`Uf\Y]h`ni`ZØfXYfb`"9VYbgc`j`YfvfY]hYh`g]bX`gh]`Y`A`YX]hUh]cbYbž
X]Y`]b`XYf`F`i`\Y`XYf`VU`]bYg]gW`Yb`@UbXgW`UZh`Y]bY`VYgc`bXYfY
H]YZY`Yb`hZU`hYb"

9]b`k`Y]hYfYg`<][\`][\`h]gh`X]Y`fYghc`fUh]j`Y`A`YX]hUh]cbž`X]Y`]b
?`ca`V]bUh]cb`a`]h`F`Y`ghc`fUh]j`Y`M`c`[U`]b`F`Y`hfY`Uhg`k`]Y`Gi`_\`Uj`Uh]
5mi`fj`YX]W`F`Y`hfY`Uh`/`GdU`Ub[`YV`chYb`k`]fX`"8i`fW`X`Yb`9]bgUhn`j`cb
<]Zga`]hhY`b`k`]Y`?`]ggYb`i`bX`8Y`W`_Yb`k`]fX`XYf`?`ØfdYf`]b`Y]bY
Dcg]h]cb`j`Ø`][Yf`9b`hgd`Ubbi`b`[`[`YV`fUW`hž`k`Å`fYbX`XYf`; Y]gh`ni`f
F`i`\Y`_`ca`a`h`"8]YgY`DfUI`]g`Y][`bY`h`g]W`X`Y`f`j`c`ffU[`YbX`ž`i`a`G`hfY`gg
UVni`VUi`Yb`i`bX`Ya`ch]cbU`Y`Gd`Ubbi`b`[`Yb`ni`"ØgYbž`i`bX`k`]fX`c`Zh
Ua`5VYbX`Ub[`YV`chYbž`i`a`XYb`HU[`g`Ub`Zh`Ui`g_]b[`Yb`ni`"UggYb`"

9]bY`XYhU]`Y]fhY`, VYfg]W`h`ØVYf`X]Y`J`]Y`ZU`h`XYf`M`c`[U!Gh]`Y`i`bX
XYfYb`K`]f`_i`b[`Yb`Z]bXYh`g]W`VY]`M`c`[U`A`YX]W]bY`ž`k`c`Ui`W`X
k`Y]hYfY`:`cfa`Yb`k`]Y`#Yb[`Uf`c`XYf`Dck`Yf`M`c`[U`VYgW`X`f]YVYb
k`YfXYbž`X]Y`YVYbZU`g`]b`VU`]bYg]gW`Yb`F`Y`hfY`Uhg`Ubni`hfY`ZYb`g]bX`
9VYbgc`V]YhYh`8Ygh]bUh]cb`8Y`i`I`Y`9]bV`]W`_Y`]b`gd`Yn]Z]gW`Y
Dfc[fUa`a`Y`ž`X]Y`X]YgY`DfU_h]_Yb`]b`XYb`A`]hhY`di`b`h`ghY`Ybž`k`]Y
Yhk`U`VY]`6`]gg`6c`Xmi`F`Y`hfY`Uhž`k`c`hf`Ub`g`Zc`fa`Uh]j`Y`M`c`[U!`i`bX
A`YX]hUh]cbgYf`YVb]ggY`a`]h[`Ub`n`Y]h]W`X`Yb`A`U`\`nY]hYb`_`ca`V]b]Yfh
k`YfXYb`"

8]Y`6UbXVfY]hY`Ub`M`c`[U!`i`bX`A`YX]hUh]cbgUb[`YV`chYb`Ui`Z`6U`]
gd]Y[`Y`h`X]Y`J`]Y`gY]h][`_Y]h`XYf`#gY`k`]XYfž`X]Y`ZØf`Y`XYb`Yhk`Ug
VYfY]h`Å`h`j`cb`XYf`XmbUa`]gW`Yb`6Yk`Y[`i`b[`V]g`ni`f`gh]`Yb
9]b`_Y`f`"X`XY`DfUI`]g`ØZbYhY]bY`bYi`Y`HØf`ni`f
GY`Vghk`U`fbY`a`i`b[`ž`Y]b[`YVYhYh]b`Y]bY`I`a`[`YVi`b[`ž`X]Y`gY`Vgh
ni`f`A`YX]hUh]cb`Y]b`Å`X`h"

? i `]bUf]gWY`K Y``bYgg



9]b`<Ui W`j cb`N]hfc bYb[fUg`i bX`Zf]gWYf`?c_cgbi gg`k Y`h`Xi fW
X]Y`cZZYbY`?ØWY`Y]bYg`FYhfYUhgž`k Å`fYbX`Y]b`?cW`a`]h
[YgW`]W_hYb`<ÅbXYb`Y]b`; Yf]W`h`Ui g`c_U`Ya` ; Ya ØgY`i bX
k Øfn][Yb`5fca Yb`nUi VYfh`5i Z6U`]gh`9ggYb`k Y]h`a Y`f`U`g`V`c» Y
BU`fi b[gUi ZbU`a Y` `Yg`]gh`Y]b`F`h] U`ž`XUg`? ØfdYf`i bX`GY`Y`Y
bÅ`fh`8]Y`VU`]bYg]gWY`?ØWY`ž`[YdfÅ`[h]`cb`Zf]gWYb`Ni hUhYb`i bX
`U`f`i bXYfhYU`hYb`HfUX]h]cbYbž`gd]Y`h`]b`K Y`b`Ygg!FYhfYUhg`Y]bY
nYbhfU`Y`F`c`Y`<]Yf`k]fX`9fbÅ`fi b[`b]W`h`bi f`U`g`A]hY`ni a
Nk YW`_ [YgY`Ybž`gc bXYfb`U`g`YggYbn]Y`Yf`6YghUbXhY` `Y]bYg
[Ub`n`Y]h`]W`Yb`<Y]i b[gdfcnYggYgž`XYf`X]Y`J`YfV]bXi b[`ni f`BU`hi f
i bX`ni f`?i`h`i f`XYf` ðgY`j Yfh]Y`Zi`

8]Y`; fi bX`U[Y`j]Y`Yf`VU`]bYg]gWYf`GdY]gYb`V]`XYh`FY]gž`XYf`U`g
i bj Yfn]W`hVUfYg`9`Ya Yb`h`ZUgh`YXYf`A U`n`Y]h`[]`h` ; Yf]W`hY`k]Y
BUg]`7Ua di f`6U`ž`Y]bY`Vi bhY`A]gW`i b[`Ui g`FY]gž; Ya ØgYgU`Uhž
: `Y]gW`i bX`cZi`GUhY`@]`h` ` [Yk ØfnhYg`< UW_ZY]gW`ž`i a
6Ua Vi ggh`AVY` [Yk]W`_Y`h` `gd]Y[Y`b`X]Y`J]Y`ZU`h`XYf`c_U`Yb
; YgW`a ÅW`Yf`k]XYf` ð`F`YhfYUhg`k]fX`X]YgY`HfUX]h]cb`c`Zh
Ub[YdUgghž`i a`XYb` : c_i g`Ui Z[Ygi bXYž`Y]W`hY`J`Uf]Uh]cbYb`ni
`Y[Ybž`X]Y`XYbbcW`XYb`Ui h`Yb`h]gWYb`7`UfU`_hYf`VYk U`fYb`

J Y [YhUf]gWXY i bX j Y [UbY C dh]cbYb g]bX k Y]h j YfVfY]hYhž
]bgd]f]Yfhj cb XYf \]bXi]gh]gWXYb ? i hi f XYf ðgY ž X]Y XYb J YfnY \ f
j cb F]bXZY]gWXY a Y]XYhi bX ghUhhXYggYb Ui Z Zf]gWXYg ; Ya ØgYž
< Ø \ bWXYb cXYf :]gWXY gYhnh"

9]b k Y]hYfYg <] [\] [\ h XYf VU]bYg]gWXYb ? i]bUf]_ g]bX X]Y
]bhYbg]j Yb ; Yk ØfnYž X]Y XYa ; Yf]WXYh]YZ j Yf Y] \ Yb " ð [k Yfž
? i f_i a Už 7 \]] i bX ? UZZf] a YhhYb V ÀhhYf gWXY UZZYb Y]bY
; YgWXY a UW_gk Y hž X]Y b]WXYh bi f XYb ; Ui a Yb YfZfYi hž gcbXYfb
Ui WXY \ Y] YbXY 9] [YbgWXY UZhYb VYg]hnh " ð K Y b Ygg! NYbhYb k]Y
XYa :]j Y Ya Ybhg F YhfYUh 6 U] k YfXYb gc WXY Ni hUHYb [Yn] Y h
Y]b [YgYhnhž i a XYb ? ØfdYf ni Ybh []ZhYb i bX XUG ð a a i bgmghYa
ni ghAf_Yb " HfUX]h]cbY Y ; YhfAb_Y k]Y ð Ja i ž Y]b ? fAi hYfcb]_i a ž
XUG VYfY]hg]b XYf < Y]_i bgh Y]b Y F c Y gd]Y hž Z]bXYb YVYbZU g
] \ fYb k Y [Ui ZX]Y GdY]gY_UfhYb i bX i bhYfghØhYb 8 Yhc I !
Dfc [fUa a Y a]h bUhØf]WXYf ? fUZh"

; Yf]WXYh k]Y ; UXc ; UXcž Y]b ; Ya ØgYgU Uh a]h 9fXbi gggc » Yž
cXYf GUm f i fUVž Y]b k Øfn] [Yf A] i Ui g 6 c \ bYb i bX Gd]bUh a]h
@]a YhhYbgUZh nY] [Ybž k]Y Y]WXYh i bX b À \ fgbc ZZfY]WXY X]Y
VU]bYg]gWXY ? ØWXY gY]b _Ubb " J]Y Y F YhfYUhgž XUfi bhYf XUG
7 CA C G \ Ua V \ U U 9ghUHYž Y [Yb K YfhUi Z 6]c! Ni hUHYb Ui g
c_U Ya 5bVUi ž i a b]WXYh bi f X]Y ; Ygi bX \ Y]h XYf ; ÀghYž gcbXYfb
Ui WXY X]Y B UWXY \ U h] [_Y]h XYf F Y []cb ni ZØfXYfb " Gc WXY GdY]gYb
k YfXYb c Zh]b c ZZYbYb ? ØWXYb ni VYfY]hYhž gcXUGg 6 Ygi WXYf XYb
Dfc nYgg a]hYf YVYb i bX X]Y J YfV]bXi b [ni f < Yf_i b Zh XYf
@YVYbga]hY gdØfYb _ØbbYb"

8]Y 6YXYi hi b [j cb 9fb À \ fi b []b K Y b Ygg! F YhfYUhg [Y \ h ØVYf
XYb ; YgWXY a UW_ \]bUi g " <]Yf k]fX 9ggYb U g A YX]n]b VYhfUWXYhž
X]Y XYb ? ØfdYf j cb]bbYb \ YfUi g fY [YbYf]Yfh " Dfc [fUa a Y k]Y
XYf 7 i]bUfm F YhfYUh VY] ;]j Y Ya Ybhg gYhnyb Ui Z d ZUb n]WXY ? cghž
X]Y ZfY]j cb j YfUfVY]hYhYb Ni hUHYb]ghž i a XYb J YfXUi i b [ghfU_h
ni YbhUghYb i bX 9bYf []Y ni gdYbXYb " ; Y]WXYnY]h] [gd]Y [Y h X]Y
Ni VYfY]hi b [hfUX]h]cbY Yf ; Yf]WXYh k]Y ð _i hi fUV 6 U]cXYf
6i Vi f A Ub [[i \ ž Y]b F Y]gVfY]a]h 9fXbØggYb i bX < À \ bWXYbž X]Y
_i hi fY Y H]YZ XYf ðgY k]XYf i bX À Xh ; ÀghY Y]bž g]WXY a]h XYb
c_U Yb 6 fAi WXYb ni j YfV]bXYb"

9]b`VYgcbXYfYg`9f`YVb]g`V]YhYb`Ui`W`X]Y`gØ»Yb`@YW_YfY]Ybž`X]Y`]b
XYf`VU`]bYg]gW`Yb`?ØW`Y`Y]bY`k`]W`h][`Y`F`c`Y`gd]Y`Yb`"D]gUb[
;`cfYb[`ž`Zf]hh]YfhY`6UbUbYbž`cXYf`K`U`]_ž`_`Y]bY`?ØW`Y]b`Ui`g
?`YVfY]gž`k`YfXYb`]b`F`YhfYUhg`c`Zi]b`[`YgØbXYfYb`J`Uf]UbhYb
Ub[`YVchYbž`Yhk`U`a`]h`<`cb][`ghUhh`Ni`W`Yf`c`XYf`c`bY`:`f]hh]YfYb`
8]YgY`_`Y]bYb`];`YbØggY`g]bX`Y]b`6Y]gd]Y`XUZØfž`k`]Y`];`Ybi`ggi`bX
K`c`VYZ]bXYb`<`UbX`]b`<`UbX`[`Y`Yb`_`ÖbbYbž`c`bY`XUgg`Ui`Z`XYb
_`i`hi`fY`Yb`?`cbhYI`hj`Yfn]W`hYh`k`]fX"

8]Y`J`]Y`ZU`h`XYf`VU`]bYg]gW`Yb`?ØW`Y`i`bX`]`fY
5bdUggi`b[`gZ`A`][`_`Y]h`Ub`a`cXYfbY`9fb`Ä`fi`b[`gVYXØfZb]ggY
a`UW`Yb`g]Y`ni`Y]bYa`]XYU`Yb`6Y[`Y]hYf`ZØf`K`Y`bYgg!Dfc[`fUa`a`Y`
D`UhhZcfa`Yb`k`]Y`6U`]"XY`V]YhYb`Y]bYb`h]YZYb`9]bV`]W`_`]b`X]Y
hfUX]h]cbY`Yb`;`Yf]W`hY`i`bX`]`fY`_`i`hi`fY`Yb`K`i`fnY`bž`k`Ä`fYbX
GY]hYb`k`]Y`7`Y`Zg`_`UfhY`gdYn]Z]gW`Y`F`YnYdhY`i`bX
Ni`VYfY]hi`b[`gUfhYb`j`c`fghY`Ybž`X]Y`Ui`W`]b`F`YhfYUhg`ni`Z]bXYb
g]bX`"8]YgY`F`Yggci`fW`b`j`YfXYi`h]W`Ybž`k`]Y`UVk`YW`g`i`b[`gfY]W`
i`bX`YfgW`k`]b[`]W`X]Y`_`i`_]bUf]gW`Y`K`Y`h`6U`]g`]ghž`i`bX`UXYb`XUni
Y]bž`bYi`Y`;`YgW`a`Ä`W`Yf`ni`Yb`hXYW`Yb`"

⇒j`]Y`Yb`NYbhfYb`k`YfXYb`?`cW`_`i`fgY`Ub[`YVchYbž`VY]`XYbYb`;`ÄghY
`YfbYbž`;`Yf]W`hY`k`]Y`B`Ug];`cfYb[`cXYf`GYfca`VchUb`gY`Vgh
ni`ni`VYfY]hYb`"Gc`W`Y`5`_`hj`]h`Ä`hYb`j`Yfh]YZYb`b]W`h`bi`f`XUg
J`Yfgh`Ä`b`Xb]g`ZØf`X]Y`VU`]bYg]gW`Y`9gg`_`i`hi`fž`gcbXYfb`Yfa`Ö[`]W`Yb
Yg`Ui`W`ž`X]Y`Df]bn]d]Yb`Y]bYf`Ui`g[`Yk`c[`YbYb`9fb`Ä`fi`b[`]a`]h`bUW`
<`Ui`gY`ni`bY`a`Yb`"9ggYb`k`]fX`gc`ni`Y]bYa`VYk`i`gghYb`5`_`hž`XYf
X]Y`F`Y]gY`ni`f`]bbYfYb`6U`UbW`Ui`ZY]bY`[`Ub`n`bYi`Y`9VYbY`Y`VYh`"

B Uhi f`i`bX`I`a`[`YVi`b[



J cf`XYa `<cf]ncbh`Yf\YVh'g]W`XYf`a`A`W`h][`Y`;;`i`bi`b[`'5[`i`b[`ž`Y]b`
gW`UZYbXYf`F`]YgYž`XYggYb`i`[`f0bY`:`Ub`_Yb`]a`'A`cf[`Yb`]W`h`
gW`ja`a`Yfbž`k`A`fYbX`i`bhYb`XUg`A`YYf`]b`gUbZnYb`K`Y`Yb`Ub`
[`c`XYbY`Ghf`AbXY`fc`h`Gc`W`Y`5bV`]W`_Y`g]bX`Ui`Z`6U`]'_Y]bY`
GY`hYb\Y]hž`gcbXYfb`XYf`U`h`A`[`]W`Y`F`U`a`Ybž`XYf`K`Y`b`Ygg!
F`YhfYUhg`Y]bY`i`bj`Yf[`Y]W`]W`Y`H]YZ`j`Yf`Y`\h`"8`jY`@UbXgW`UZnYb`
XYf`b`gY`'`j`cb`gUZh[`Yb`F`Y]ghYffUggYb`0VYf`X]W`hY`F`Y[`Ybk`A`XYf`
V]g`\]b`ni`XfUa`Uh]gW`Yb`?0ghYb`_]ddYb`'`g]bX`b]W`h`bi`f`?i`]ggYž`
gcbXYfb`Y]b`U`_hj`Yf`HY`'XYf`<Y`i`b[`gYfZU`fi`b[`"G]Y`UXYb`XUni`
Y]bž`g]W`a`]h`XYf`BUhi`f`ni`j`YfV]bXYb`i`bX`Xi`fW`Ci`hXccf!
5_hj]`]h`hYb`?0fdYf`i`bX`:`Y]gh`]b`9]b`_Ub[`ni`Vf]b[`Yb`"

8]Y`J`jY`ZU`h`XYf`VU`]bYg]gW`Yb`BUhi`f`V]YhYh`Y]bY`:`0`Y`Ub`
A`0[`]W`_Y]hYbž`X]Y`l`a`[`YVi`b[`]U`_hj]`ni`Yf`_i`bXYb`"5b`XYb`?0ghYbž`
X]Y`j`cb`[`c`XYbYb`GUbXghf`AbXYb`V]g`\]b`ni`Xi`b`_Yb`
J`i`_Ub`gUbXZ`A`W`Yb`fY]W`Ybž`Z]bXYb`:`A`ghY`C`fhY`XYf`Fi`Y`i`bX`
6Yk`Y[`i`b[`]ni`[`]Y]W`"Ghf`AbXY`k`jY`6Uhi`6Y`][`c`XYf`7Ub[`]i`ž`
VYgcbXYfg`VY`]YVh`VY]`Gi`fZYfbž`V]YhYb`]b`XYf`B`A`Y`j`jY`Yf`F`YhfYUhg`
X]Y`7`UbW`ž`g]W`]b`X]Y`K`Y`Yb`ni`gh0fnYb`"NYbhfYb`k`jY`C`W`Ub`
Gci`F`YhfYUh]bhY[`f]YfYb`Gi`fZYb`i`bX`gc[`Uf`:`fY`YX]j`]b[`]b`]fY`
Dfc[`fUa`a`Yž`i`a`X]Y`VY`YVYbXY`?fUZn`XYg`C`nYUbg`X]fY`_h]b`X]Y`
K`Y`b`Ygg!9fZU`fi`b[`]Y]bni`V]bXYb`"

ϕ`UbX`cW_Yb`X]Y`[_cb]gWkYb`FY]ghYffUggYbž`X]Y`k]Y`[f0bY
HfYddYb`]b`X]Y`<Ø[Y`[YgWk]hhYb`g]bXž`ni`Yb`hgdUbbYbXYb
K UbXYfi b[Yb`"8]YgY`hYffUggYbZ0fa][Yb`: Y`XYfž`Xi fWk`Y]b
Ui g[Y`_Ø[Y`hYg`6Yk`ÀggYfi b[ggmghYa`j YfVi bXYbž`g]bX`b]Wk`h`bi`f
Y]b`j]gi`Y`Yg`GdY`hU`Y`ž`gcbXYfb`Ui`Wk`Y]b`C`fh`XYf`6Yg]bbi`b["
J]Y`Y`FYhfYUhgž`XUfi bhYf`6U[i`g`Xh]]b`I`Vi`Xž`cf[Ub]g]YfYb
[YZ0\fhY`GdUn]Yf[Àb[Y`Xi`fWk`gc`Wk`Y`@UbXgWk`UZhYbž`VY]`XYbYb
; ÀghY`X]Y`Fi`Y`XYf`BUhi`f`Ui`Z`g]Wk`k]f`Yb`UggYb`_0bbYbž
k`À\fybX`g]Y`[`Y]Wk`nY]h[`j]\fyb`?`0fdYf`gUbZi`Zc`fXYfb`"

8]Y`j`i`_Ub]gWkYb`FY[]cbYb`6U`]g`V]YhYb`Y]bY`k`Y]hYfY`8]a`Ybg]cb
XYf`9f`_i`bXi`b["8Yf`;`i`bi`b[`6Uhi`fž`Y]b`U`_hj`Yf`J`i`_Ub`a`]h`Y]bYa
VYY]bXfi`W_YbXYb`?`fUhfYgYYž`]gh`Y]b`VY`]YVhYg`N]Y`Z0f`HfY`__]b[!
Hci`fYbž`X]Y`c`Zi`VY]`GcbbYbUi`Z[Ub[`ghUhhZ]bXYbž`i`a`XYb`;`]dZY`]b
[c`XYbYa`@]Wk`h`ni`Yf`VYb`"FYhfYUhg`k]Y`XUg`7CA`C`G`Ua`V`U`U
9ghUhY`V]YhYb`gc`Wk`Y`5i`gZ0[Y`Ubž`Yf[Àbnh`Xi`fWk`5`_hj`]h`ÀhYb`k]Y
A`ci`bhU]bV]_]b[`Xi`fWk`j`YfghY]bYfhYb`@Uj`UZ`XYf`"8]YgY`9f`YVb]ggY
j`YfV]bXYb`_0fdYf`]Wk`Y`5bghfYb[i`b[`a`]h`Y]bYa`h]YZb`;`YZ0`XYf
9`fZ`fWk`hj`cf`XYf`fc`Yb`?`fUZi`XYf`BUhi`f`"

8]Y`6Yf[fY[]cbYbž`[YdfÀ[h]j`cb`Yf`cgWkYbYb`J`i`_UbYb`i`bX
X]Wk`hYb`FY[Ybk`À`XYfbž`UXYb`ni`]bhYbg]j`YfYb`K`UbXYfi`b[Yb`Y]b`
Fi`bX`i`a`GYb`k]Y`8`UbUi`HUa`V`]b[Ub`cXYf`8`UbUi`6`fU`U`bž
i`a`[VYb`j`cb`0dd][Yf`J`Y[YhU]cbž`_0bbYb`;`ÀghY`X]Y`_Ø`Yž`_UFY
@`Zi`XYf`<`Ø`Yb`U[Y`[Yb]Y»Yb`"C`fhY`k]Y`XUg`:`ci`f`GYUgc`bg`FYgc`fh
6U`]U`h`GU`m`Ub`bi`hnYb`X]YgY`I`a`[YVi`b[`Z0f`[YZ0\fhY`Hci`fYbž`X]Y
b]Wk`h`bi`f`XYb`?`0fdYf`gh`Àf`_Ybž`gcbXYfb`Ui`Wk`XYb`;`Y]gh`Xi`fWk`X]Y
Zf]YX`]Wk`Y`5V[YgWk]YXYb`Y]h`XYf`K`À`XYf`VYfi`][Yb`"Gc`Wk`Y
5`_hj`]h`ÀhYb`g]bX`c`Zi`gc`[YghU`hYhž`XUgg`g]Y`Z0f`U`Y`:]hbYgg`Yj`Y`
ni`[Àb[`]Wk`g]bX`"

8]Y`?`ØghYbFY[]cbYb`]a`G0XYbž`]bgVYgcbXYfY`X]Y`6i`_]h[<U`V]bgY`ž
VYY]bXfi`W_Yb`a`]h`ghY]`Yb`?`]ddYb`i`bX`j`YfghY`W`hYb`Ghf`ÀbXYb`k]Y
B`m`Ub[`B`m`Ub[`6YUWk`ž`k`c`[f0b`VYk`UWk`gYbY`: Y`gYb`ØVYf`XYa
A`YYf`h`fc`bYb`"<]Yf`V]YhYb`FYhfYUhg`k]Y`H`Y`5gU`A`U]U
A`0[`]Wk`_Y]hYb`Z0f`a`YX]hU]j`Y`GdUn]Yf[Àb[Y`Yb`h`Ub[`XYf`?`]ddYb
cXYf`M`[U!GYgg]cbg`a`]h`6`]W`_Ui`Z`XYb`C`nYUb`"8]Y`XfUa`Uh]gWk`Y
Gk`0b`Y]h`X]YgYf`C`fhY`j`Yfgh`Àf`h`XUg`;`YZ0`XYf`]bbYfYb`Fi`Y`i`bX

gWUZhY]bYb`FUi a ž]b`XYa`a Ub`g]W`a]h`XYf`i bYbX`]WYb`K Y]hY
XYf`BUh`i f`j YfVi bXYb`ZØ`h"

9]b`h]YZYfYf`9]bV`]W_`]b`X]Y`ZUW`hhYbfY]WYb`@UbXgWUZhYb`6U`]g
Z]bXYh`g]W`Ui Z`D`UhhZcfa Yb`k]Y`6U`]"XYž`k c`X]Y`J]Y`ZU`h]j cb
? ØghYbž`J i`_UbYb`i bX`FY]ghYffUggYb`Ui gZØ`f`]W`VYgW`f]YVYb
k]fX`"9VYbgc`V]YhYh`I f`Ui Vg[i fi`d`fU`_h]gWY`H]ddg`ni`Ci hXccf!
5_h]j]h`hYb`k]Y`GW`bcfWY`Ui gZØ[Yb`]b`DUXUb[`6U]ž`Y]bYa
HUi WYfdUfUX]Yg`]a`CghYb`XYf`ægY`ž`XUg`j cb`j]Y`Yb`F YhfYUhg`U`g
5i gZi [gn]Y`[Ybi h`h`k]fX`"8]YgY`FYggci fW`b`j YfXYi h]WYbž`k]Y
Yb[`X]Y`bUhØ`f`]WY`I a [YVi b[`a]h`XYa`9f`YVb]g`Ui Z`6U`]
j Yf_bØdZh`]gh"

8]Y`@UbXgWUZhYb`XYf`ægY`g]bX`a Y`f`U`g`bi`f`Y]b`ØVgWYf
<]bhYf[fi bX`g]Y`g]bX`Y]b`YVYbX][Yf`HY]`XYf`K Y`bYgg!FY]gY`"CV
Yg`XUg`gUbZhY`FUi gWYb`XYf`K Y`Yb`Ub`Y]bYa`Y]bgUa Yb`GhfUbX
]ghcXYf`XYf`_Ø`Y`BYVY`ž`XYf`ØVYf`Y]bYa`Ji`_UbgyY`Y[hž`YXY
I a [YVi b[`hfÅ[h`XUni`VY]ž`XYb`GhfYgg`XYg`5`hU[g`UVni gWØhY`b`
Ci hXccf!5_h]j]h`hYb`ž`X]Y`]b`XYb`F YhfYUhg`Ub[YVchYb`k YfXYbž
Yfa`Ò[`]WYb`Ygž`X]YgY`GW`Øb`Y]h`b]W`h`bi`f`ni`VYhfUW`hYbž
gcbXYfb`g]Y`U_h]j`ni`Yf`YVYb`i bX`gc`Y]bY`h]YZYfY`J YfV]bXi b[`ni f
9fXY`Yfni ghY`Yb"

K Y`bYggDfc[fUa`a Y`i bX`6Y`UbX`i b[Yb



A]h[YgW`cggYbYb`5i [Yb`gdØfh'a Ub`X]Y`k Ufa Yb`<ÀbXY`Y]bYg
H\YfUdYi hYbž`X]Y`a]h`gUbZhYbž`f\m\`a]gWYb`6Yk Y[i b[Yb
J YfgdUbbi b[Yb`ØgYbž`k À\FYbX`XYf`8i Zhj cb`Àh\Yf]gWYb`2`Yb
XYb`FUi a`YfZØ`h" ð`XYb`K Y`bYgg!F YhfYUhg`Ui Z`6U`]VY[]bbh`cZh
gc`Y]bY`FY]gY`XYf`FY[YbYfUh]cbž`VY]`XYf`? ØfdYf`i bX` ; Y]gh`Xi fW
Y]bY`J]Y`nU\`j cb`6Y\UbX`i b[Yb`i bX`Dfc[fUa` a`Yb`j Yfk Ø\`bh
k YfXYb`"J cb`hfUX]h]cbY`Yb`A UggU[Yb`ØVYf`i i i f]ØgY`GdU!
5bk YbXi b[Yb`V]g`\]b`ni`]bhYbg]j Yb`8YhcI !?i fYb` `X]Y`5b[YVchY
g]bX`gc`j]Y`ZÀ`h[`k]Y`X]Y`6YXØfZb]ggY`XYf` ; ÀghY`i bX`gd]Y[Y`b`X]Y
fY]WY`<Y]`_i`hi`f`XYf`ðgY`k]XYf`"

9]b`nYbhfU`Yf`6YghUbXhY]`j]Y`Yf`Dfc[fUa` a`Y`g]bX`VU`]bYg]gWY
A UggU[Ybž`X]Y`h]YZ]b`XYf`c`_U`Yb`HfUX]h]cb`j Yfk i fnY`h`g]bX`"8]YgY
HYW`b]`_ca`V]b]Yfh`5_i`dfYggi`fž`gUbZhY`8Y\`bi b[Yb`i bX
<Ui`hfc`Ybž`i`a`XYb`9bYf[]YZi`gg]a`?ØfdYf`ni` \Ufa`cb]g]YfYb`i`bX
XYb`bUhØf`]WYb`F`m\`a`i`g`k]YXYf\Yfni`ghY`Yb`" ð`NYbhfYb`k]Y
XYa` :`ci`f`GYUgcbg`FYgc`fh`6U`]Uh`GUm]b`k YfXYb`gc`WY
6Y\UbX`i b[Yb`cZh`a`]h`?fÀi`hYfØ`Yb`Yf[Àbnhž`X]Y`Ui`g
Y]b\Y]a]gWYb`DZUbnyb`[Yk`cbbYb`k YfXYbž`i`a
A i`g_Y`j YfgdUbbi b[Yb`ni`]bXYfb`i`bX`h]YZY`9bhgdUbbi b[`ni
ZØfXYfb`"8]Y`fi` \[Y`i`a` [YVi`b[ž`cZh`VY[`Y]hYh]`ca` `Y]gYb
D`ÀhgWYfb`Y]bYg`bU\Yb` :`i`ggYgž`j Yfgh`f`h`X]Y`K]f`_i`b[`X]YgYf
9fZU\fi`b["

B Y V Y b ' A U g g U [Y b ' V] Y h Y b ' j] Y ' Y ' F Y h f Y U h g ' Y] b Y ' V f Y] h Y ' D U ' Y h h Y ' U b ' G d U !
5 b k Y b X i b [Y b ž ' X] Y ' U i Z ' Ò f d Y f '] W X Y ' i b X ' a Y b h U ' Y ' 9 f b Y i Y f i b [U V n] Y ' Y b " ' ? Ò f d Y f d Y Y '] b [g ' a] h ' b U h Ø f '] W X Y b ' N i h U h Y b ' k] Y ' ? c _ c g b i g g c X Y f ' A Y Y f g U ' n ž ' k] Y ' g] Y '] a ' 7 C A C ' G \ U a V \ U ' U ' 9 g h U h Y ' U b [Y V c h Y b k Y f X Y b ž ' Y b h Z Y f b Y b ' U V [Y g h c f V Y b Y ' < U i h n Y ' ' Y b ' i b X ' j Y f V Y g g Y f b ' X] Y 8 i f W V ' i h i b [" ' ? Ò f d Y f d U W _ i b [Y b ž ' c Z h ' a] h ' \ Y] ' Y b X Y b ' ? f À i h Y f b c X Y f ' G W \ U a a ž ' b À \ f Y b ' X] Y ' < U i h i b X ' i b h Y f g h Ø h n Y b ' X] Y ' 9 b h [] Z h i b [" < Y] » Y ' G h Y] b V Y \ U b X ' i b [Y b ž ' V Y] ' X Y b Y b ' Y f k Ā f a h Y ' J i ' _ U b g h Y] b Y ' U i Z V Y g h] a a h Y ' D i b _ h Y ' X Y g ' ? Ò f d Y f g ' [Y ' Y [h ' k Y f X Y b ž ' g] b X ' Y] b Y ' k Y] h Y f Y V Y '] Y V h Y ' A Y h \ c X Y ž i a ' G d U b b i b [Y b ' n i ' ' Ò g Y b ' i b X ' Y] b ' ; Y Z Ø \ ' X Y f ; Y V c f [Y b \ Y] h ' n i ' g W U Z Z Y b "

8 Y h c l ! ? i f Y b ' g h Y \ Y b ' Y V Y b Z U ' g] a ' A] h h Y ' d i b _ h j] Y ' Y f ' K Y ' ' b Y g g ! D f c [f U a a Y ' U i Z 6 U] ž ' V Y g c b X Y f g] b ' N Y b h f Y b ' k] Y ' :] j Y ' Y a Y b h g F Y h f Y U h ' 6 U ' ž ' k c ' X Y f ' < c '] g h] W 8 Y h c l ' F Y h f Y U h ' U b [Y V c h Y b ' k] f X " 8] Y g Y ' ? i f Y b ' n] Y ' Y b ' X U f U i Z ' U V ž ' X Y b ' ? Ò f d Y f ' j c b ' ;] Z g h c Z Z Y b ' n i V Y Z f Y] Y b ž '] b X Y a ' g] Y ' Y] b Y ' ? c a V] b U h] c b ' U i g ' g d Y n] Y ' ' Y f ' 9 f b Ā \ f i b [ž ? f À i h Y f [Y h f Ā b _ Y b ' k] Y ' \ J a i ' i b X ' i b h Y f g h Ø h n Y b X Y b ' 6 Y \ U b X ' i b [Y b b i h n Y b " ' C Z h ' V Y] b \ U ' h Y b ' g] Y ' d Z U b n] W X Y ' ? c g h ž ' X] Y ' X Y b J Y f X U i i b [g h f U _ h ' Y b h U g h Y h ž ' g c k] Y ' G U i b U ! G] h n i b [Y b ž ' X] Y ' X U g G W k] h n Y b ' Z Ø f X Y f b " ' G c ' W X Y ' D f c [f U a a Y ' g] b X ' X U f U i Z ' U i g [Y ' Y [h ž b] W h ' b i f ' d \ m g] g W Y ž ' g c b X Y f b ' U i W ' Y a c h] c b U ' Y ' 6 Y ' U g h i b [Y b U V n i V U i Y b ž '] b X Y a ' g] Y ' Y] b Y b ' F U i a ' Z Ø f '] b b Y f Y ' F Y] b] [i b [g W U Z Z Y b "

5 f c a U h \ Y f U d] Y ' g d] Y ' h ' Y] b Y ' k Y] h Y f Y ' V Y X Y i h Y b X Y ' F c ' ' Y '] b ' X Y b ' G d U ! 5 b [Y V c h Y b ' j] Y ' Y f ' F Y h f Y U h g " ' 8 i f W ' X] Y ' J Y f k Y b X i b [' Ā h \ Y f] g W X Y f 2 ' Y ' k] Y ' @ j Y b X Y ' c X Y f ' N] h f c b Y b [f U g ž ' X] Y ' k Ā \ f Y b X ' A U g g U [Y b ' c X Y f] b ' g d Y n] Y ' ' Y b ' 6 Ā X Y f b ' Y] b [Y g Y h n h ' k Y f X Y b ž ' k] f X ' Y] b Y ' V Y f i \] [Y b X Y 5 h a c g d \ Ā f Y ' [Y g W U Z Z Y b " ' a ' G i _ \ U j U h] ' 5 m i f j Y X] W F Y h f Y U h / ' G d U k] f X ' X] Y g Y ' A Y h \ c X Y ' c Z h ' a] h ' U m i f j Y X] g W Y b ' D f] b n] d] Y b ' _ c a V] b] Y f h ž i a ' X U g ; ' Y] W [Y k] W h ' X Y f ' 8 c g \ U g ' ' X Y f '] b X] j] X i Y ' ' Y b ' 9 b Y f [] Y b ' n i ' Z Ø f X Y f b " ' 8] Y ' g U b Z h Y b ' 8 Ø Z h ' k] f _ Y b ' X] f Y _ h ' U i Z ' X U g '] a V] g W X Y G m g h Y a ' i b X ' _ Ø b b Y b ' G h f Y g g ' i b X ' 5 b g d U b b i b [' a Y f _] W f Y X i n] Y f Y b "

J] Y ' Y ' F Y h f Y U h g ' V] Y h Y b ' U i W ' a U » [Y g W b Y] X Y f h Y ' D f c [f U a a Y ž ' X] Y U i Z ' X] Y] b X] j] X i Y ' ' Y b ' 6 Y X Ø f Z b] g g Y ' X Y f ' ; Ā g h Y ' Y] b [Y \ Y b " ' a ' F 9 J J

K Y`bYgg`F Ygc fh`VY]gd]Y`gk Y]gY`k YfXYb`dYfgc bU`g]YfhY`D`AbY
YfghY`h`X]Y`j cb`GhfYgga UbU[Ya Ybh!K cf_g\cdg`V]g`\]b`ni
[Yn]Y`hYb`6Y\UbX`i b[Yb`k]Y` ; Yg]W\hgVY\UbX`i b[Yb`a]h
bUhØf`]W\Yb`i`b\U`hgghc ZZYb`fY]W\Yb`"Gc`W\Y`Dfc[fUa`a`Y
VYfØW_g]W\h[Yb`c Zh`Y]bY`[Ub n\Y]h]W\Y`DYfgdY`_h]j Y`ž`X]Y
_ØfdYf`]W\Y`ž`a YbhU`Y`i bX`Ya`ch]cbU`Y`5gdY`_hY`Y]bVYn]Y\h`ž`i`a`Y]b
i`a`ZUggYbXYg`K`c`\VYZ]bXYb`ni`ZØfXYfb`ž`k`jY`Yg`Ui`W`]b`Y]bYa
5fh]_Y`Ui`Z`<G9`6`c`[`ØVYf`X]Y`J`cfhY]`Y`ghfi`_hi`f]YfhYf`K`Y`bYgg!
b]h]Uh]j`Yb`VYgW\f]YVYb`k`]fX"

9]bY`k`Y]hYfY`VY`]YVhY`5bk`YbXi`b[`g]bX`<Y]`VAXYfž`X]Y`]b`C`fhYb
k`jY`XYa`A`UmU`i`Vi`X`F`Ygc`fh`/`GdU`Ub[`YV`chYb`k`YfXYb`"A`]h
Ni`g`ÅhnYb`k`jY`A`YYfgU`n`cXYf`Åh\Yf]gW\Yb`2`Yb`V]YhYb`X]YgY`6`ÅXYf
Y]bY`VYfi` \][`YbXY`K`]f`_i`b[`Ui`Z`?`ØfdYf`i`bX` ;`Y]gh`"C`Zh`k`YfXYb`g]Y
U`g`HY]`Y]bYg`[`fØ`»`YfYb`GdU`!F]hi`U`g`Xi`fW\`[`YZØ`h`ž`XUg`a`]hY]bYf
_i`fnYb`6YfUhi`b[`VY`[`]bbh`ž`i`a`X]Y`6YXØfZb]ggY`XYg` ;`UghY`g`ni
_`ÅfYb`ž`i`bX`a`]hY]bYf`Fi` \Yd`UgY`YbXYh`ž`i`a`X]Y`K`]f`_i`b[`ni
j`Yfh]YZYb`"Gc`W\Y`6Y\UbX`i`b[`Yb`ž`XYhU]`Yfh`VYgW\f]YVYb`Ui`Z`
5bk`YbXi`b[`a`Y]ghYf`ž`nY][`Yb`ž`k`jY`k`]W\h[`[`]bX]j`]Xi`Y`Y`5bg`ÅhnY
ZØf`Y]bY`YZZY`_h]j`Y`9b`hgdUbbi`b[`g]bX"

8]Y`6UbXVfY]hY`XYf`Ub[`YV`chYbYb`6Y\UbX`i`b[`Yb`YfghfYW`_h]g]W\
c`Zh`Ui`W\`Ui`Z`gdYn]U`]g]YfhY`HYW\b]_Yb`k`jY`5`_i`di`b`_hi`f`cXYf`<`ch!
F`c`W`!A`UggU[`Yb`ž`X]Y`]b`F`YhfYUhg`k`jY`5X]k`UbU`Gj`Uf[`U`@`c`_U`ni
Z]bXYb`g]bX`"8]YgY`A`Yh`cXYb`ž`X]Y`Ui`Z`hfUX]h]cbY`Yb`<Y]`dfU`_h]_Yb
VUg]YfYb`ž`n]Y`Yb`XUfUi`Z`UV`ž`XYb`9bYf[`]YZi`gg`ni` \Ufa`cb]g]YfYb
i`bX`W\fc]gW\Y`6YgW\k`YfXYb`ni`"bXYfb`"9f[`Åbnh`Xi`fW\
Dfc[`fUa`a`Y`k`jY`7`YUbgY`cXYf`6Ygdc`_Y`]a`7`C`A`C`G`Ua`V`U`U
9ghU`hY`ž`_ØbbYb` ;`ÅghY`j`fY`9fZU`fi`b[`]bX]j`]Xi`Y`"Y`[`YghU`hYb`i`bX`gc
[`YbUi`X]Y`i`bhYfghØhni`b[`Z]bXYb`ž`X]Y`g]Y`gi`W\Yb"

8]YgY`J`jY`ZU`h`Ub`6Y\UbX`i`b[`Yb`i`bX`Dfc[`fUa`a`Yb`a`UW\h`X]Y
K`Y`bYgg`!F`YhfYUhg`Ui`Z`6U`]ni`Y]bYa`C`fh`ž`Ub`XYa`Y`XYf`gY]bYb
Y][`YbYb`K`Y[`ni`f`9f`c`i`b[`Z]bXYb`_Ubb`"C`V`Yg`X]Y`gUb`ZhY
6YfØ`fi`b[`Y]bYf`A`UggU[`Y`]gh`cXYf`X]Y`]bhYbg]j`Y`F`Y]b][`i`b[`Y]bYf
8Yhcl`!`?`i`f`ž`YXY`5bk`YbXi`b[`hf`Å[`h`XUni`VY]ž`XYb`5`hU[`\]bhYf`g]W\
ni`"UggYb`i`bX`g]W\`Ui`Z`XUg`K`YgYbh]W\Y`ni`_`cbnYbhf]YfYb"

B UWX \ U`h][_Y]h'i bX`Yh\]gWX Yf`Hci f]ga i g



Nk]gWX Yb`XYb`gUbZhYb`<Ø[Y`b`j`cb`l`Vi`X`ghY`h`Y]b`F`YhfYUž
XYggYb`8`ÅWX Yf`Ui`g`fYWmW`hYa`6Ua`Vi`g`[`YZfh][`hig]bXž`k`Å`fYbX
]b`XYf`:`YfbY`XUg`@UWX Yb`c`_U`Yf`5fVY]hYf`Yf`_]b[`hž`X]Y`?`fÅi`hYf`ZØf
X]Y`?`ØWX Y`YfbhYb`"5i`Z`6U`][`Y`h`k`Y`b`Ygg`k`Y]h`ØVYf`dYfgØb`]WX Y
9f`c`i`b[`\]bUi`g`Y`g`]gh`Y]b`J`Yfgd`fYWX Yb`ž`X]Y`l`a`k`Y`h`ni
gWX`Ø`h`Yb`i`b`X`X]Y`:`Ya`Y]bgWX`U`Z`h`ni`gh`Å`f`_`Yb`"B`UWX`\`U`h][`Y
DfU`_`h]`_`Yb`g]bX`j]b`j`]Y`Yb`K`Y`b`Ygg`!`F`YhfYUhg`b]WX`h`bi`f`Y]b`HfYbXž
gcbXYfb`Y]b`h]Y`Z`j`Yfk`i`fnY`h`Yg`Df]bn]dž`XUg`X]Y`<`Ufa`cb]Y`nk`]gWX`Yb
A`Yb`gWX`i`b`X`B`U`h`i`f`k`]XYfgd]Y[`Y`hž`k`]Y`g]Y`]b`XYf`VU`]b`Yg]gWX`Yb
D\]`cgcd\]Y`j`cb`Hf`]<]hU`?`UfUbU`[`YZ]Yfh`k`]fX`"8]YgY
6Ya`Ø`li`b[`Yb`hfU[`Yb`X`U`ni`VY]ž`X]Y`≠`gY`ZØf`ni`_ØbZh][`Y
;`Yb`YfUh]cbYb`ni`VYk`U`fYb`i`b`X`[`Y]WX`nY]h][`XYb`c`_U`Yb
@YVYbgi`bhYf`U`h`ni`ZØfXYfb`"

9]b`nYbhfU`Yf`5gdY`_`h`XYf`B`UWX`\`U`h][`_Y]h]b`X]YgYb`F`ØW`ni`[`gc`fhYb
]gh`XYf`VYk`i`gghY`l`a`[`Ub[`a`]h`F`Yggci`fW`b`"J`]Y`Y`NYbhfYb`ž`k`]Y
XUg`:`]j`Y`Ya`Yb`hg`F`YhfYU`h`6U`]ž`gY`h`Yb`Ui`Z`Yfb`Yi`YfVUfY`9bYf[`]Ybž
Yhk`U`Xi`fWX`Gc`UfdUbY`gž`i`a`]fYb`7C`&!`i`»`UVXfi`W`ni
a`]b]a`]YfYb`"K`UggYfgdUfYbXY`5fa`Uhi`fYb`i`b`X`X]Y
K`]YXYfj`Yfk`YbXi`b[`j`cb`FY[`Ybk`UggYf`ZØf`X]Y`6Yk`ÅggYfi`b[`XYf
;`ÅfhYb`g]bX`YVYbZU`g`k`Y]h]YfVfY]hYhž`i`a`XYb`J`YfVfUi`WX`ni

fYXi n]YfYb" Gc`WXY`A U» bU`a Ybž`X]Y`Ui W`]b`Y]bYa `5fh]_Y`Ui Z`
9bYf[mH\YcfmU`g`YZZY_h]j Y`GhfUHY[]Yb`ni f`
F Yggci fW`bgW`cbi b[`VYgW`f]YVYb`k YfXYbž`nY][Ybž`k]Y`F YhfYUhg
U_h]j`ni f`Ò_c`c[]gW`Yb`BUW`U`h][_Y]h`VY]hfU[Yb`"

8]Y`FYXi n]Yfi b[`j`cb`5VZU`gd]Y`hY]bY`YVYbgc`k]W`h][Y`F`c`Y`"
D`Ugh]_ZfY]Y`b]h]Uh]j Yb`g]bX`]b`j]Y`Yb`9]b]W`h`i b[Yb`GhUbXUfXž`
k`cVY]`V]c`c[]gW`U`VVUi`VUfY`J`YfdUW`i b[Yb`i`bX`
k]YXYfj`Yfk`YbXVUfY`A`UhYf]U`]Yb`VY]c`fni [`h`k`YfXYb`" `æ` `7`C`A`C`
G`Ua`V`U`U`9ghUHY`VY]gd]Y`gk`Y]gY`k`YfXYb`GdY]gYb`i`bX` ; Yhf`À`b`_Y`
c`b`Y`9]bk`Y[`d`Ugh]_`gYfj`]Yfž`i`bX`Yg`[]Vh`Dfc[`fUa`a`Y`ni`f`
?ca`dcgh]Yfi b[`cf[`Ub]gW`Yf`5VZ`Yž`X]Y`XUbb`ni`f`8`Øb[`i`b[`XYf`
i`a` `]Y[YbXYb` : Y`XYf[`Ybi`mhk`YfXYb`" `8]YgY`DfU_h]_Yb`j`Yff]b[Yfb`
b]W`h`bi`f`X]Y`l`a`k`Y`hVY`Ughi`b[ž`gcbXYfb`Z`ØfXYfb`Ui`W`Y]b`
6Yk`i`ggghY]b`Z`Øf`NYfc!K`UghY!5bg`À`hnY`VY]`XYb` ; `À`ghYb`"

9]b`k`Y]hYfYf`VYXYi`hYbXYf` : c`_i`g`]Y[`h`Ui`Z`XYf`l`bhYfgh`Ø`ni`b[`XYf`
`c`_U`Yb` ; Ya`Y]bgW`U`Zž`k`Ug`X]Y`gcn]U`Y`G`À`i`Y`XYf`B`UW`U`h][_Y]h`
VYhcbh`"J]Y`Y`F`YhfYUhgž`XUfi`bhYf`6U[`i`g`U]ž`VYn]Y`Yb`]`fY`
DfcXi`_hY` `gY]`Yg`Zf]gW`Yg` ; Ya`ØgYž`?`f`À`i`hYf`c`XYf`
<`UbXk`Yf`_gUfVY]hYb` `X]fY`_h]`cb`VU`]bYg]gW`Yb`6Ui`Yfb`i`bX`
?`i`bgh`UbXk`Yf`_Yfb`" `8]YgY`Y`h`]gW`Y`6YgW`UZZ`b[`ž`k`]Y`g]Y`Ui`W`]b`
Y]bYa`6Y]hfU[`Ui`Z`**Gi`ghU]bUV`]**hm`Gi`**W`W`gg`**U`g`GW`ØggY`ni`
bUW`U`h][Yb` ; YgW`À`ZhgdfU_h]_Yb` `Yfj`cf[`Y`c`VYb`k`]fXž`g]W`Yfh`
XYb`@YVYbgi`bhYf`U`h`XYf`9]b`Y]a`]gW`Yb`i`bX`gh`À`f`_h`X]Y`
k`]fhgW`U`Z]W`Y`GhUV`]h`h`XYf`F`Y[]cb`" ; `Y]W`nY]h][`V]YhYb`gc`W`X`Y`
DUfhbYfgW`U`Z]Yb`XYb` ; `À`ghYb`Ui`h`Yb]gW`Y`9]bV`]W`_Y]b`X]Y`?`i`hi`f`
XYf`b`gY`"

8]Y`6YgW`À`Z]h][`i`b[`c`_U`Yf`A`]hUfVY]hYf`]gh`Y]b`k`Y]hYfYf`K`Y[`ž`k`]Y`
F`YhfYUhg`ni`f`gcn]U`Yb`B`UW`U`h][_Y]h`VY]hfU[Yb`"J`cb`H`YfUdYi`hYb`
ØVYf`?`ØW`Y`V]g` `]b`ni` ; `À`f`hbYfb` `]b`NYbhfYb`k`]Y`XYa` :`ci`f`
GYUgc`bg`F`Ygc`fh`6U`]U`h`G`U`m`U`b`k`YfXYb`VU`]bYg]gW`Y` :`UW`_f`À`Z`h`Y`
Y]b[YghY`h`i`bX`c`Z]b`b`bUW`U`h][Yb`DfU_h]_Yb`[YgW`i`h`8]Yg`
gW`UZZ]b]W`h`bi`f`5fVY]hgd`À`hnYž`gcbXYfb`Z`ØfXYfh`Ui`W`X`Yb`
K`]ggYbghf`UbgZ`Yf`i`bX`X]Y`K`YfhgW`À`ni`b[`Z`Øf`i`a`k`Y`h`ZfYi`bX`]W`Y`
5bg`À`hnY`]bbYf`U`V`XYf` ; Ya`Y]bgW`U`Z]h`Gc`W`X`Y`b]h]Uh]j`Yb`
j`YfVYggYfb`X]Y`@YVYbgei`U`]h`h`i`bX`gh`À`f`_Yb`X`Ug`

; Ya Y]bgWkUZhg[YZØ\`žk Ug`Ub[Zf]gh][`ni `Y]bYf`dcg]hj] Yb
5fVY]hga cfU`ZØ\fh"

5fWk]hY_hi f`i bX`8Yg][b`j]Y`Yf`F YhfYUhg`gd]Y[Y`b`YVYbZU`g`XUg
9b[U[Ya Ybh`ZØf`X]Y`l a k Y`h`k]XYf" C fhY`k]Y`5X]k UbU`Gj Uf[U
@c_U`j Yfk YbXYb`i a k Y`h`ZYi bX`]WkY`6Ui a UhYf]U`]Yb`k]Y`6Ua Vi g
i bX`fYWmW`hYg`<c`n`ž`i a `j]\fY`; YV`Ai XY`]a `9]b`_Ub[`a]h`XYf
bUhØf`]WkYb`l a [YVi b[`ni ` [YghU`hYb"8]YgY`9bhgWkY]Xi b[Yb
a]b]a]YfYb`X]Y`Ö`c`c[]gWkYb`5i gk]f_i b[Yb`XYg`6Ui gi bX
VYk U\fYb`X]Y`_UbXgWkUZh`]WkY`Gk`Öb`Y]h`6U`]g"8UfØVYf`\]bUi g
gYhnYb`Y]b][Y`NYbhYfYb`Ui Z`bUhØf`]WkYg`@]Wkhi bX`6Y`ØZhi b[ž`i a
XYb`9bYf[]Yj YfVfUi Wk`ni`gYb`_Yb`i bX`Y]bY`\Ufa`cb]gWkY
J YfV]bXi b[`ni f`BUhi f`ni`gWkUZZYb"

8]Y`9]bV]bXi b[`XYf`; `AghY`]b`bUWk`U`h][Y`DfU`_h]_Yb`]gh`Y]b
k Y]hYfYf`k]Wk]h][Yf`5gdY`_h"J]Y`Y`F YhfYUhg`V]YhYb`K cf_g`cdg`cXYf
5`_hj]]h`AhYb`Ub`ž`VY]`XYbYb`6Ygi WkYf`YfbYb`ž`k]Y`g]Y`gY`Vgh
i a k Y`h`VYk i gghYf`YVYb`_ÖbbYb` `gY]Yg`Xi fWk`?cWk`_i fgY`a]h
`c`_U`_Ub[YVUi hYb`Ni hUhYb`cXYf`Xi fWk` [YZØ\fhY`Hci fYb`ni
bUWk`U`h][Yb`Dfc`Y`_hYb`]b`XYf`l a [YVi b["`Gc`WkY`9f`YVb]ggY
gYbg]V`]g]YfYb`ZØf`X]Y`6YXYi hi b[`XYg`l a k Y`hgWk`i hnYg`i bX
]bgd]f]YfYb`XUni ž`X]YgY`Df]bn]d]Yb`Ui Wk`]a `5`hU[`Ubni k YbXYb"

8]Y`5i gk]f_i b[Yb`X]YgYf`6Ya Ø`i b[Yb`fY]WkYb`k Y]h`ØVYf`X]Y
; fYbnYb`XYf`F YhfYUhg`\]bUi g" `X`XYa `g]Y`Ö`c`c[]gWkY`ž`gcn]U`Y`i bX
k]fhgWkUZh`]WkY`BUWk`U`h][`_Y]h]b`XYb`J cfXYf[fi bX`ghY`Yb`ž`hfU[Yb
X]YgY`NYbhYfYb`XUni `VY]ž`XYb`Hci f]ga`i`g`Ui Z`6U`]b`Y]bY
j YfUbhk`cfhi b[gj`c`Y`F]Wkhi b[`ni `Yb`_Yb" `G]Y`nY][Yb`ž`XUgg
K`c`\`VYZ]bXYb`b]Wkhi`bi`f`]bX]j]Xi Y`ž`gcbXYfb`Ui Wk`_c`Y`_h]j
[YXUWk`h`k YfXYb`_Ubb`ž`i bX`ZØfXYfb`Y]b`A`cXY`ž`XUg`gck`c`\`XYf
l a k Y`h`U`g`Ui Wk`XYb`A`YbgWkYb`ni [i hY`_ca`a`h"

9fZU`fi b[gVYf]Wk hY`j`cb`F`YhfYUhhY]`bY`a`Yfb



ϕ·Y]bYa ' _·Y]bYb`B ch]nVi Wž`XUg`Ui ZY]bYa '6Ua Vi gh]gW`]b
Y]bYa `F YhfYUh`]b`I Vi X`Y[hž`Z]bXYb`g]W`NY]`Yb`j c`Yf
8 Ub_VUf_Y]h`i bX`FYZYI]cbž`[YgW`f]YVYb`j cb`Ya UbXYa ž`XYf`\\Yf
Y]bY`h]YZ[fY]ZYbXY`J YfÅbXYfi b[`Yf`YVh`\\Uh`8]Y` ; YgW`]W`hYb`j cb
F Y]gYbXYbž`X]Y`Ub`K Y`bYgg!F YhfYUhg`Ui Z6U`]hY]`[Ybca a Yb
\\UVYbž`g]bX`gc`j]Y`ZÀ`h][`k]Y`X]Y`ϕgY`gY`Vgh`G]Y`YfnÅ`\\Yb`j cb
]bbYfYf`<Y`i b[ž`bYi `Yb`hXYW`_hYf`?`Uf`\\Y]h`i bX`A ca Yb`hYbž`X]Y`XUg
@YVYb`bUW`\\U`h][[YdfÅ[h`\\UVYb`"8]YgY`dYfgØb`]W`Yb`6Yf]W`hY
V]YhYb`Y]bYb`Ui h`Yb]gW`Yb`9]bV`]W`_]b`X]Y`hfUbgZcfa Uh] Y`? fUZh
X]YgYf`F ØW`ni [gcfhY`i bX`UggYb`X]Y`A U[]Y`6U`]g`Xi fW`X]Y`5i [Yb
XYfYf`YVYbX][`k YfXYbž`X]Y`g]Y`gY`Vgh`YfZU`fYb`\\UVYb`"

9]bY`↑ b[Y` : fUi `Ui g`8Yi`hgW`UbXž`5bbUž`VYgW`fY]Vh`\\fYb
5i ZYbh`U`h`ja ` :]j Y`Ya Ybhg`F YhfYUh`6U`]U`g`Y]bYb`K YbXYdi b`_h`
BUW`A cbUhYb`XYg`6i fbci hg`]b`\\fYa `ghfYgg][Yb`6Øfc`cV`gi W`hY
g]Y`j Yf`nk`Y]ZY`h`bUW`Y]bYa `5i gk`Y[" `ϕW`_Ua `a]h`Y]bYa `?cdZ
j c`Yf`Gcf[Yb`Ubž`UVYf`gW`cb`bUW`XYb`YfghYb`HU[Yb`ZØ`hY`]W`
a]W`Y]W`hYf`ž`Yf]bbYfh`g]Y`g]W`"8]Y`hÅ[`]W`Yb`Mc [U!GYgg]cbg`Ua
: `i ggi ZYf`i bX`X]Y`8Yhcl`!`?`i`f`a]h`hfUX]h]cbY`Ya `ϕJa `i `\\U`ZYb`]`fž
b]W`h`bi`f`_ØfdYf`]W`ž`gcbXYfb`Ui W`a Yb`hU`c`gni `UggYb`"
6YgcbXYfg`VYY]bXfi W`_hY`g]Y`X]Y`gd]f]hi Y`Y` : Yi YfnYfYa cb]Yž`X]Y
]`f`Y]b` ; YZØ`Y`j cb`F Y]b][i b[`i bX`BYi VY[]bb`gW`Yb`_hY`" ϕW`\\UVY
[Y`Yfbhž`k]YXYf`Ui Z`a Y]bY`]bbYfY`Gh]a a Y`ni `\\ØfYb`ž`gW`fY]Vh`g]Y`

]b`]\fYa`HU[YVi Wž`XUg`g]Y`bUW`]\fYf`F ØW__Y`f`k`Y]hYfZØ\fhž`i`a`
X]Y`5W`hgUa`_Y]h`Ui`g`6U`])b`]\fYb`5`hU[`ni`])bhY[f]YfYb"

9]b`k`Y]hYfYf`F`Y]gYbXYfž`A`Uf`_`Ui`g`5i`ghfU`])Ybž`hY]`h`gY]bY`
9fZU\fi`b[Yb`Ui`g`XYa`7`C`A`C`G`Ua`V`U`U`9ghU`hY`ž`k`c`Yf`Y]bY`
K`c`W`Y`Ub[`XUg`7`Y`UbgY!`Dfc[fUa`a`UVgc`j`YfhY`"B`UW`]`X`f`Yb`
i`b[Ygi`bXYf`;`Yk`c`b`Y]hYb`ZØ\`hY`Yf`g]W`Ui`g[Y`Ui`[`hi`bX`gi`W`hY`
bUW`Y]bYa`BYi`ghUfh`8]Y`VU`])bYg]gW`Yb`A`UggU[Yb`i`bX`X]Y`6]c`!
?ØW`Y`UVYb`a`Y]bYb`?ØfdYf`Ui`Z]Y]bY`K`Y]gY`[Yb`Å`fhž`X]Y`]W`
b]W`h`ZØf`a`Ø[`]W`[Y`U`hYb`Å`hY`ž`Yfn`Å`h`Yf`6YgcbXYfg`df`Å[YbX`
k`Uf`ZØf`]\b`X]Y`F`i`Y`XYf`i`a`[YVi`b[`XUg`F`Ui`gW`Yb`XYf`6`Åi`a`Y`
i`bX`X]Y`5V`k`YgYb`Y]h`j`cb`GhUX`h`Å`fa`])Y»Yb`]\b`ni`a`YfghYb`A`U`
gY]h`@`Ub[Ya`k`]f`_]W`UVgW`U`hYb`"A`Uf`_`Y`V`h`Y`fj`c`fž`k`]Y`X]Y`
K`cf`_`g`cdg`ni`GhfYgga`UbU[Ya`Ybh`]\a`k`Yf`_`nYi`[Y`Ub`X]Y`<`UbX`
[UVYbž`X]Y`Yf`bi`b`h`Å[`]W`Ub`k`YbXYhž`i`a`gY]bY`]bbYfY`6U`UbW`ni`
k`U`f`Yb"

Gcd`]\Už`Y]bY`A`i`hYf`j`cb`nk`Y]?]bXYfb`Ui`g`XYb`i`G5ž`ZUbX`]a`
9gWUdY`<`Uj`Ybž`Y]bYa`F`YhfYU`h`bi`f`ZØf`:`fUi`Ybž`Y]bYb`C`fh`XYf`
GY`V`ghZØf`gcf[Yž`XYb`g]Y`gc`Xf]b[YbX`VfUi`W`hY`"Å`W`U`hY`
j`Yf[YggYbž`k`]Y`Yg`g]W`UbZØ\`hž`NY]h`ZØf`a`]W`gY`V`gh`ni`UVYb`ž`
[YghY`h`g]Y`"8]Y`dYfgcbU`]g]YfhYb`K`Y`b`Ygg!`DU`_`hY`Yf`Ui`V`hYb`Yg`
]\fž`nk`]gW`Yb`M`c[Už`A`YX]hU]cb`i`bX`GdU!6Y`U`bX`i`b[Yb`ni`
k`Å`Ybž`Y`bUW`HU[Yggh]a`a`i`b["6YgcbXYfg`VYfØ\fh`U`h`g]Y`X]Y`
i`bhYfgh`Ø`hnYbXY`;`Ya`Y]bgW`U`Z`h`UbXYfYf`:`fUi`Ybž`a`]h`XYbYb`g]Y`]\fY`
Yb[ghY`i`bX`<`c`Zbi`b[Yb`hY]Yb`_`cbbhY`"Å`W`U`UVY`b]W`h`bi`f`
a`Y]bYb`?ØfdYfž`gcbXYfb`Ui`W`a`Y]b`<`Yfn`[Y`Y]`h`ž`gU[h`g]Y`i`bX`
VY`hc`b`hž`k`]Y`X]Y`ZYI`]V`Y`G`hfi`_`hi`f`XYg`F`YhfYU`hg`]\f`XUg`;`YZØ\`[UVž`
YbX`]W`k`]YXYf`?`cb`h`f`c`Y`Ø`VYf`]f`K`c`VY`Z]bXYb`ni`UVYb"

9]b`Å`hYfYf`<`Yff`Ui`g`;`fc»`Vf]hUbb]Ybž`8Uj`]Xž`VYf]W`hY`h`j`cb`gY]bYf`
NY]h`i]a`6U[i`g`Xh]ž`k`c`Yf`Ub`Y]bYa`5mi`fj`YXU!F`YhfYU`h`hY]`bU`a`"
B`UW`Y]bYa`[Ygi`bX`Y]h`]W`Yb`F`ØW`_`gW`U[`gi`W`hY`Yf`bUW`
K`Y[Ybž`gY]bY`9bYf[]Y`ni`fØW`ni`[Yk`]bbYb`"8]Y`?`ca`V]bUh]cb`Ui`g`
A`YX]hU]cb`]b`XYb`K`Å`XYfb`i`bX`XYb`Umi`fj`YX]gW`Yb`
6Y`U`bX`i`b[Yb`U`h`a`]W`k`]YXYf`a`]h`a`Y]bYf`@YVYbg`_`FU`Z`h`
j`YfVi`bXYb`ž`gW`]XYfh`Yf`"8]Y`h`Å[`]W`Yb`GdUn]Yf[Åb[Y`Xi`fW`X]Y`
F`Y]ghYffUggYb`i`bX`X]Y`6Y[Y[bi`b[Yb`a`]h`XYb`Yfn`]W`Yb`

A]hUfVY]hYfbž'X]Y ']\a 'VU']bYg]gWXY '<Y]'hfUX]h]cbYb
bÅ\YfVfUW hYbž'\]bhYf'Y» Yb'Y]bYb'V'Y]VYbXYb'9]bXfi W_"8Uj]X
ZØ\h'g]W\Yi hY'b]W h'bi f' _ØfdYf']W ghÅf_Yfž'gcbXYfb'Ui W
Ya ch]cbU'Ui g[Y[']W YbYfž'k Ug'Yf'Ui Z'X]Y'fi '\][Yž'gd]f]hi Y''Y
5ha cgd\ÅfY'XYg'FYhfYUhg'ni fØW_ZØ\fh"

9]bY'k Y]hYfY'Gh]a a Y' _ca a hij cb'7`UfUž'Y]bYf'↑ b[Yb'? UbUX]Yf]bž
X]Y'ja 'Gi _\Uj Uh]'5mi fj YX]WFYhfYUh/ 'GdU'Y]bY'K cWXY'XYf
J Yf'Øb[i b['Yf'YVhY"' ÆW'k Uf'g_Ydh]gW ž'cV'gc'Y]b'FYhfYUh
k]f_]W\Yhk Ug'ÅbXYfb'_Ubb ž[]Vh'g]Y'ni "'8cW'X]Y']bX]j]Xi Y''
UV[Ygh]a a hYb'6Y\UbX'i b[Yb'ibX'X]Y'hÅ[']W Yb'Mc[]U]G]hni b[Yb
a]h'6']W'_Ui Z'FY]ghYffUggYb'ØVYfnYi [hYb'g]Y'gW bY''''6YgcbXYfg
X]Y'Umi fj YX]gW Yb'A UggU[Yb'ibX'X]Y'6YfUhi b['ni f'9fbÅ\fi b[
\U'Zyb']\fž'W fcb]gW Y'J YfgdUbbi b[Yb'ni ''ØgYb'ibX'bYi Y
; Yk c\b\Y]hYb'ni 'Yb'k]W_Y'b"' ÆW '\UVY'[Y'Yfbhž'k]Y'k]W h]['Yg
]ghž'Ui Z'a Y]bYb'? ØfdYf'ni '\ØfYb ž'fYZY_h]Yfh'g]Y'ibX'd'Ubh
VYfY]hgž'VU'X'ni fØW_ni _Y\Yfbž'ia 'X]YgY'9fZU\fi b['ni 'j Yfh]YZYb"

8]YgY'Ui h\Ybh]gW Yb'6Yf]W hYž'X]Y'X]Y'hfUbgZcfa Uh]j Y'? fUZhj cb
6U']g'K Y''bYgg! FYhfYUhg'j YfXYi h']W Ybž'gd]Y[Y'b'X]Y'J]Y'ZU'h'XYf
9fZU\fi b[Yb'k]XYfž'X]Y'FY]gYbXY'\]Yf'a UWXYb"D'Uhžcfa Yb'k]Y'
9fZU\fi b[gVYf]W hY"Wc a 'V]YhYb'FUi a 'ZØf'gc'WXY'dYfgØb']W Yb
; YgW]W hYbž']bXYa 'g]Y'YW hY'Bi hnYfVYk Yfhi b[Yb'gUa a Y'b'ibX
Y]b'fYU']gh]gW Yg'6']'X'j cb'9f'YVb]ggYb'j Yfa]hY'b"'8]YgY
9fnÅ\ 'i b[Yb'nY][Ybž'XUgg'Yg'b]W h'bi f'ia '9bhgdUbbi b[[Y\hž
gcbXYfb'ia 'h]YZ[fY]ZYbXY'J YfÅbXYfi b[Ybž'X]Y'cZh'k Y]h'ØVYf'XYb
5i ZYbh\U'h'\]bUi g'bUWk]f_Yb"

→XY'X]YgYf'Gh]a a Yb'hfÅ[h'Y]b'GhØW_ni f''YVYbX][Yb'; YgW]W hY
XYf'K Y''bYgg! FYhfYUhg'Ui Z'6U']VY]"G]Y'YfnÅ\Yb'j cb']bX]j]Xi Y''Yb
K Y[Yb'ni f'<Y]'i b[ž'j cb'A ca YbhYb'XYf'Gh]'Y'i bX'XYf
K]YXYfYbhXYW_i b['XYg'Y][YbYb'GY'Vgh']ba]hYb'Y]bYf' ÆgY'ž'X]Y
k]Y'Y]b'Ni Zi W hgcfh'k]f_h"

H]ddg'ZØf'X]Y'D`Ubi b['Y]bYg'FYhfYUhg



HfÅi a Yb'G]Y'XUj cbž'ba]hYb' [f0bYf'F Y]ghYffUggYb'i bX'i bhYf
XYa' gUbZHYb'?`Ub['Y]bYg'VU`]bYg]gWXYb'HYa dY`[`0W_WXYbg'ni f
Fi \Y'ni `ca a Yb3'8]Y'Gi WXY'bUWX'XYa `dYfZY_hYb'K Y`bYgg!
FYhfYUh'Ui Z'6U`]_Ubb'Y]bY'F Y]gY'Z0f'g]W'gY]bž'XcW'`a]h'XYb
f]W'h][Yb'GW'f]hYb'k]fX'g]Y'ni 'Y]bYa 'YfZ0`YbXYb'DfcnYgg"8]Y
=bgY`V]YhYh'Y]bY: 0`Y'Ub'A 0[`]W_Y]hYbž'j cb'gd]f]hi Y`Yb
F0W_ni [gcfhYb'V]g'\]b'ni `i l i f]0gYb'GdU!C UgYbž'i bX'X]Y'5i gk U\`
XYg'dUggYbXYb'c fhYg'YfZcfXYfh'Yhk Ug'D`Ubi b["'<]Yf'Z]bXYb'G]Y
dfU_h]gW'Y'<]bk Y]gYž'i a 'XUg'XYU'Y'FYhfYUh'ni `Z]bXYbž'X]Y
6i W'i b['fY]Vi b[g'cg'ni '[YghU'hYb'i bX'g]W'cdh]a U`Ui Z=FYb
5i ZYbh\U'hj cfni VYfY]hYb"

6Y[]bbYb'G]Y'XUa]hž'ÀFY'dYfg0b`]WXYb'N]Y'Y'i bX'6YX0fZb]ggY' _`Uf
ni 'XYZ]b]YfYb"'A 0W'hYb'G]Y'g]W'Ui ZMc[U'i bX'A YX]hUh]cb
_cbnYbhf]YfYbž'Y]bY'8Yhcl !?i f'Xi fW'Ui ZYb'cXYf'Y]bZUW'bi f
YbhgdUbbYb3', VYf'Y[Yb'G]Yž'k Y`WXY'5fh'j cb'9fZU\fi b['G]Y
gi WXYb' `cV'Yg'X]Y'gd]f]hi Y`Y'H]YZY'Y]bYg'c fhYg'k]Y' l Vi X'cXYf
X]Y'?0ghYbbÅ\Y'j cb'GYa]bmU_gY]b'gc""5i W'X]Y'N]Y'[fi ddY
gd]Y'h'Y]bY'Fc`Y.'9]b][Y'FYhfYUhg'k]Y'9gWUdY'<Uj Yb'f]W'hYb'g]W
gdYn]Y`Ub': fUi Ybž'k Å\FYbX'UbXYfY'ZUa]]YbZFYi bX'W'cXYf'Ui Z
9]bnY'fY]gYbXY'Ui g[Yf]W'hYh'g]bX"9]bY'_UfY'J cfghY`i b['ÀFYf
Df]cf]hÅhYb'\]Zhž'X]Y'5i gk U\`Y]bni [fYbnYb'i bX'Y]b'Dfc[fUa a'ni
Z]bXYbž'XUg'ni `ÀbYb'dUggh"

F YW YfW JYfYb`G]Y [f0bX`]W ži a `X]Y`J]Y`ZU`h`XYf`5b [YVchY`ni
j YfghY`Yb`"D`UhhZcfa Yb`k]Y`6cc`F YhfYUhg`V]YhYb`k Yfhj c`Y
9]bV`]W_Y`]b`j YfgW]YXYbY`Dfc [fUa a Y`i bX` [YVYb`H]ddg`ni f
D`Ubi b [žY]bgW`]Y»`]W`XYf`6Yf0W_g]W h[i b [`j cb`?`]a U`i bX
_i`hi fY`Yb`5gdY`_hYb`XYf`@WU]cb`"GW U i Yb`G]Y`g]W
6Yk Yfhi b [Yb`i bX`9fZU`fi b [gVYf]W hY`Zf0`YfYf` ; ÅghY`Ub ži a `Y]b
; YZ0`Z0f`X]Y`5ha cgd`ÅfY`i bX`E i U`]h`h`Y]bYg`F YhfYUhg`ni
VY`_ca a Yb`"5W hYb`G]Y`XUfUi Z`cV`XUg`5b [YVch`Δ`fYb`Δ`hYfYggYb
Ybhgd]W h`i`a UbW`Y`NYbhYb`k]Y` :]j Y`Ya Ybhg`F YhfYUh`6U`]`Y [Yb
K Yfh`Ui Z [Ub`n`Y]h`]W`Y`8Yhcl`!Dfc [fUa a Y`žk`Å`fYbX`UbXYfY`k]Y
7CA C`G`Ua V`U`U`9ghU`hY`i`i`f]0gY`GdU`9f`YVb]ggY`a`]h
a U» [YgW`bY]XYfhYb`D`ÅbYb`V]YhYb`"

6Yf0W_g]W h[Yb`G]Y`Δ`f`6i`X [Yh`ž`XU`X]Y`?`cghYb`Z0f`F YhfYUhg`Ui Z
6U`]`ghUf`_j`Uf]]YfYb`_0bbYb`"9]bZUW`Y`5g`fUa`g`V]YhYb
YfgW`k]b [`]W`Y`C`dh]cbYb`Z0f`a`]b]a U`]gh]gW`Y`F`0W`_n0 [Y`žk`Å`fYbX
< [`!`9bX`!F`Ygc`fhg`k]Y`XUg` : ci`f`GYUgc`bg`F`Ygc`fh`6U`]`Uh`GUm`Ub`a`]h
i`a`ZUggYbXYb`DU`_YhYb`i`bX`i`i`f]0gYb`5bbY`a` `]W`_Y]hYb`c`W`_Yb`"
Df0ZYb`G]Y`žk`Ug`]a`DfY]g`Yb`h`U`hYb`]gh`i`i`bhYf`_i`b`ž`A`U`n`Y]hYb`ž
5`_hj`]h`h`Yb`c`XYf`Hf`Ub`g`ZY`fg`i`i`bX`c`V`Y`g`j`YfghY`W`_hY` ; YV0`fYb` []Vh`
J]Y`Y`F`YhfYUhg`V]YhYb` : f0`Vi`W`Y`ff`UV`UhY`c`XYf`gd`Yn]Y`Y`
5b [YVchY`ž`X]Y`G]Y`bi`h`Yb`_0bbYb`ž`k`Yb`b`G]Y`fYW`h`nY]h[`d`UbYb`"
9]bY`hf`Ub`gd`Uf`Yb`hY`DfY]g [Y`gh`U`hi`b [ž`k]Y`g]Y`Ui`W`_Ui`Z`D`UhhZcfa`Yb
k]Y` :]b`X`M`ci`f`F`YhfYUh`VY`h`cb`h`k]f`X`ž`Y`f`Y]W`hY`fh`X]Y`9bhgW`Y]Xi`b [
i`bX`n`]ž`ž`i`b`Ub [Yb`Y`a`Y` , VY`ff`Ug`W`i`b [Yb`ni`j`Yfa`Y]XYb`"

8]Y`@U [Y`XYg`F`YhfYUhg`j`YfX]Yb`h`VY`gcbXYfY`5i`Za`Yf`_g`Ua`_Y]h`
i`Vi`X`ž`XUg`gd]f]hi`Y`Y`<`Yfn`6U`]g`ž`Y [bY`h`g]W`_Z0f`h]Y`ZY`]bbYfY
9]b`_Y`f`]ba`]h`hYb`j`cb`BU`hi`f`i`bX`HY`a`dY`b`ž`k`Å`fYbX`?`0ghY`bc`fhY
k]Y`7`Ub [[i`c`XYf`GY`a`]b`m`U`_`A`Y`Y`f`V`]W`_i`bX`Y]bY`Y`VY`b`X [YfY
5ha`cgd`Å`fY`V]YhYb`" , VY`f`Y [Yb`G]Y`ž`k]Y`k]W`h [`Δ`bYb`X]Y
9ffY]W`V`Uf`_Y]h]gh`i`Y]b [Y`UV [Y`Y [Yb`Y`NY`bhYb`k]Y`6U [i`g`Δ]h
V]YhYb`5V [YgW]YXYb`Y]h`ž`Y`f`Zc`f`XY`fb`UV`Y`f`Å`b [YfY`5b`ZU`f`h`gnY]hYb
j`ca` :`i [`UZYb`8Y`bd`Ug`Uf`"Df0ZYb`G]Y`ž`c`V`Hf`Ub`g`ZY`fg`c`f [Ub]g]Y`fh
k`Yf`XY`b`ž`i`bX`VY`f`0W_g]W`h [Yb`G]Y`X]Y`VY`ghY`F`Y]g`Y`nY]h`ž
]XY`U`Y`fk`Y]g`Y`nk`]g`W`Y`b`5df`i`i`bX`B`cj`Ya`VY`f`ž`i`a`X]Y`Hf`c`W`_Y`bnY]h
ni`bi`h`Yb`i`bX`F`Y [YbnY]h`i`b`Ub`b`Y`a` `]W`_Y]hYb`ni`j`Yfa`Y]XYb`"

6Y]a`6i W\i b[gdfcnYgg`c\bh`Yg`g]W\ž`X]fY`_h`a`]h`XYa` `F`YhfYUh
?cbhU`_h`Ui`Zni`bY`a` Ybž`i`a` `gdYn]Z]gW\Y`:`fU[Yb`ni` ` `ÀfYb"
9f`_i` bX][Yb`G]Y`g]W\`bUW\`XYb`Ghcfb]Yfi`b[gVYX]b[i`b[Ybž`XU`j`]Y`Y`
C`fhY`ZYI`]V`Y`C`dh]cbYb`UbV]YhYbž`X]Y`VY]`i`bj`cf`Yf[YgY`YbYb`
Y`bXYfi`b[Yb` \`]ZfY]W\`g]bX`"HY`Yb`G]Y`VYgcbXYfY`6YXØfZb]ggY`a`]hž`
gY]Yg`Y]bY`VYgh]a` a`hY`8]Āhž`_ØfdYf`W\Y`9]bgW\`fĀb`_i`b[Yb`cXYf`
XYf`K`i`bgW\`bUW\`Df]j`Uhgd`ÀfY`"9]bY`_`UfY`?ca`a`i`b]_Uh]cb`j`cfUVž`
k`]Y`g]Y`Ui`W\`]b`F`Uh[YVYfb`Ui`Z`6cc`_F`YhfYUhg`Ya`dZc`Yb`k`]fXž`
gcf[h`XU`ZØfž`XUgg`ÀfY`9fk`Ufhi`b[Yb`YfZØ`h`k`YfXYb`"Bi`hnYb`G]Y`
ni`XYa` `Y]bY`VYbi`hnYfZfYi`bX`]W\Y`D`UhhZcfa` `cXYf`Vi`W\Yb`G]Y`
X]fY`_h`ØVYf`X]Y`K`YVg]hY`XYg`F`YhfYUhgž`i`a` `XYb`Df`cnYgg`ni`
j`YfY]bZUW\Yb"

8]Y`J`cfVYfY]hi`b[`Ui`ZXYb`5i`ZYbh`U`h`VY[]bbh`Ub[Y`j`cf`XYf`
5VfY]gY`"DUW`Yb`G]Y`Y]W\hž`UVYf`VYXUW\h` `VYei`Ya`Y`?`Y]Xi`b[`ZØf`
Mč[U`i`bX`A`YX]hUh]cbž`6UXYVY`_`Y]Xi`b[`ZØf`GdU!6YfY]W\Y`cXYf`
GhfĀbXY`gck`]Y`Y]b`[i`hYg`DUUf`K`UbXYfgW\i` \Y`ZØf`5i`gZØ[Y`]b`X]Y`
BUhi`f`g]bX`YggYbn]Y`"6f]b[Yb`G]Y`Y]b`HU[YVi`W\`cXYf`B`ch]nVi`W\`
a`]hž`i`a` `ÀfY`; YXUb`_Yb`i`bX`9f`YVb]ggY`ZYgmi` \U`hYbž`XU`j`]Y`Y`
F`YhfYUhg`ni`f`F`YZYI`]cb`Ub`fY[Yb`" `bZcfa`]YfYb`G]Y`g]W\`ØVYf`
_i`hi`fY`Y`; YdZc[Yb`Y]hYb`Ui`Z`6U`ž`k`]Y`XUg`HfU[Yb`
Ub[Ya`YggYbYf`?`Y]Xi`b[`VY]`HYa`dY`VYgi`W\Ybž`i`a` `F`YgdY`_h`ni`
nY][Yb`"GhY`Yb`G]Y`g]W\Yfž`XUgg`G]Y`Ui`gfY]W\YbX`:`Øgg][_Y]h`ni`
g]W\`bY`a` Yb`i`bX`j`cf`GdU!6Y`UbX`i`b[Yb`Xi`gW\Ybž`k`]Y`Yg`c`Zh`
Ya`dZc`Yb`k`]fXž`i`a` `X]Y`K`]f`_i`b[`ni` `a`U`i`ja`]YfYb"

D`UbYb`G]Y`[YbØ[YbX`NY]h`ZØf`X]Y`5b`fY]gY`i`bX`5`__`a`Uh]g]Yfi`b[
Y]bž`VYgcbXYfg`k`Ybb`G]Y`Ui`g`Y]bYf`UbXYfYb`NY]hncbY`_ca`a`Yb`"
9]b`cXYf`nk`Y]`HU[Y`Di`ZZyf`j`cf`i`bX`bUW\`XYa` `F`YhfYUh`_ØbbYb`
\Y`ZYbž`ž`h`U[`ni` `a`]b]a`]YfYb`i`bX`X]Y`9fZU`fi`b[`j`c`"Ui`gni`_cghYb`"
DfØZYb`G]Y`ž`cV`G]Y`Y]b`J`]gi`a` `VYb`Øh][Yb` `ZØf`j`]Y`Y`BUh]cbU`]hĀhYb`
]gh`VY]`5i`ZYbh`U`hYb`i`bhYf`" \$`HU[Yb`_Y]bYg`YfZc`fXYf`]W\ž`UVYf`Yg`
`c\`bh`g]W\ž`X]Y`U`_hi`Y`Yb`6Ygh]a`a`i`b[Yb`ni`ØVYfd`fØZYb`"
?ca`a`i`b]n]YfYb`G]Y`a`]h`XYa` `F`YhfYUh`ØVYf`Yj`Ybhi`Y`Y`
[Ygi`bX`Y]h]W\Y`6YXYb`_Yb`cXYf`5`Yf[]Ybž`i`a` `g]W\Yfni`ghY`Ybž`
XUgg`ÀfY`6YXØfZb]ggY`VYfØW`g]W\h][h`k`YfXYb"

A`]h`X]YgYb`GW`f]hYb`Y`[Yb`G]Y`XYb`; fi`bXghY]b`ZØf`Y]bY`

VYfY]WXYfbXY'FY]gY'ni'Y]bYa'K Y''bYgg!FYhfYUh'Ui Z'6U']''8]Y
f]Wxh][Y'JcfVYfY]hi b['i bX'5i gk U\''ÒZbYb'X]Y'HØf'ni'Y]bYf
9fZU\fi b[ž'X]Y'b]Wxh'bi f'Yb hgdUbbYbXž'gcbXYfb'Ui Wx'h]YZ
hfUbgZcfa]YfYbX'gY]b'Ubbž'Y]b[YVYhYh']b'X]Y'Y]bn][Ufh][Y'A U[]Y
X]YgYf' b'gY''

: Un]h'i bX'5i gV`]W_



8Yb_Yb'G]Y'Ub'Y]bYb'A ca Ybž']b'XYa'X]Y'K Y'h'gh]'ghY\h'
j]Y''Y]Wxh'k Å\fybX'Y]bYf'A YX]hUj]cb'VY]'GcbbYbUi Z[Ub[ž'a]h'XYa
8i Zhj cb': fUb[]dUb]]b'XYf'@ Zhi bX'XYa'ZYfbYb?'Ub['Y]bYg
VU']bYg]gWXYb'HYa dY'g''Gc'WXY'5i [YbV`]W_Y'XYf'Fi \Y'i bX
9fbYi Yfi b['g]bX'XYf'?Yfb'XYggYbž'k Ug'K Y''bYgg!FYhfYUhg'Ui Z
6U']'gc'VYgcbXYfg'a UWxh''G]Y'V]YhYb'k Y]h'a Y\f'U'g'bi f'Y]bY'_i fnY
5i gnY]h'g]Y'gWUZZYb'Y]bYb'FUi a ž']b'XYa' ?ØfdYf'i bX'; Y]gh
fY[YbYf]YfYb'i bX''Ub[Zf]gh][Y'JYfÅbXYfi b[Yb'K i fnY'b'gW'U[Yb
_ØbbYb''8]Y'JcfhY]Y'X]YgYf'9fZU\fi b[Yb'fY]WXYb'h]YZi bX
\]bhYf'UggYb'Gdi fYbž'X]Y'k Y]h'ØVYf'XYb'5i ZYbh\U'h'\]bUi g'ja
5''hU['gdØfVUf'V'Y]VYb''

9]b`nYbhfU`Yf; Yk]bb`gc`WXYf`F YhfYUhg`Y[h]b`XYf`A Ò[`]W_XY]hž
X]Y`Y][YbY; Ygi bX`Y]h]b`XYb`A]hY`di b`h`ni`ghY`Yb"Dfc [fUa`a`Y
k]Y`X]Y`ja` :]j Y`Ya`Ybhg`F YhfYU`6U`cXYf`ja`7CA`C`G`Ua`V`U`U
9ghU`h`V]YhYb`[Yn]Y`hY`5bg`ÀhnY`gY]`Yg`Xi`fW`8Yhc!`!`?`i`fYb`ž`M`c [U
cXYf`9fb`À`fi`b[gd`ÀbY`a`]h`VU`]bYg]gWXYf`6]c!`?`ØWXY`ž`X]Y
a`YggVUfY`J`YfVYggYfi`b[Yb`VYk`]f`_Yb`"Ghi`X]Yb`ž`k`]Y`g]Y`Ui`Z
**K`Y`b`Ygg`F`Y`hf`Y`Uh`Y`f`n]h]Yfh`k`YfXYb`ž`nY][Yb`VYY]bXfi`W`_YbXY
9f[YVb]ggY.`HY]`bY`a`Yf`j`YfnY]W`bYb`cZi; Yk]W`hgj`Yf`i`ghž`Y]bY
F`YXi`_]cb`XYg`6`i`hXfi`W`_g`i`bX`Y]bY`gW`Ub`_YfY`HU]`Y`ž`9ZY`_hY`ž`X]Y
gY`Vgh`K`cW`Yb`bUW`X`Yf`F`ØW`_Y`f`Ub`U`hYb`"8]YgY`d`mg]gW`Yb
J`Yf`Àb`XYfi`b[Yb`g]bX`Y]b`[fY]ZVUfYf`6Yk`Y]g`XUZØf`ž`k`]Y`[Yn]Y`hY
5i`gnY]hYb`XYb`?`ØfdYf`fYj`]hU`]g]YfYb`_`ØbbYb`"**

,`VYf`X]Y`_`ØfdYf`]WXY`9VYbY`_`]bUi`g`V]YhYb`X]YgY`F`ØW`ni`[gc`fhY
Y]bY`gY`hYbY`7`UbW`ž`XYb;`Y]gh`ni`Ybh`UghYb`i`bX`bYi`Ui`Zni`UXYb`"
`b`Y]bYf`K`Y`h`j`c`Y`f`gh`ÀbX][Yf`F`Y]nY`i`bX`J`YfdZ]W`hi`b[Yb`gW`UZZYb
C`fhY`k`]Y`XUg`Gi`_`Uj`Uh]`5mi`fj`YX]WF`YhfYU`h`/`GdU`Y]bYb`F`U`a`Yb`ž
i`a`XYb`5`hU[`]b`hYf`g]W`ni`"UggYb`"GhfYgga`UbU[Ya`Ybh!
K`cf`_`g`l`cdg`ž`a`YX]hUh]j`Y`DfU`_]Yb`i`bX`X]Y`VYfi`_`][YbXY
I`a`[YVi`b[`XYf`VU`]bYg]gWXYb`BUhi`f`Y`Z`b`ž`a`YbhU`Y`?`Uf`Y]h`ni
Z]bXYb`"J`]Y`Y`HY]`bY`a`Yf`VYf]W`hYb`ž`XUgg`g]Y`bUW`Y]bYa
5i`ZYbh`U`h`VYggYf`a`]h`<`YfUi`gZcfXYfi`b[Yb`i`a`[Y`Yb`_`ØbbYb`ž`XU
g]Y`HYW`b]_Yb`k`]Y`5hYa`ØVi`b[Yb`cXYf`5W`hgUa`_Y]h`Yf`Yfbh
`UVYb`ž`X]Y`g]Y`]b`]`fYb`5`hU[`]b`hY[f]YfYb`"

8]Y`Ya`ch]cbU`Y`K`]f`_i`b[`gc`WXYf`9fZU`fi`b[Yb`gc`hY`b]W`h
i`bhYfgW`À`nh`k`YfXYb`"F`YhfYUhg`k`]Y`9gWUdY`<`Uj`Yb`ž`gdYn]Y`"ZØf
:`fUi`Yb`_`c`bn]d]Yfhž`cXYf`H`Y`D`UW`ž`a`]h`i`c`_i`g`Ui`Z
dgmW`ch`YfUdYi`h]gWXY`5bg`ÀhnY`ž`ZØfXYfb`Y]b`h]YZYg;`Y`ZØ`X`Yf
GY`VghZØf`gcf[Y`i`bX`XYg]bbYfYb`i`f]YXYbg`"8]Y`i`bhYfgh`Ø`hnYbXY
;`Ya`Y]bgW`UZhž`X]Y`g]W`c`Zi`i`bhYf`HY]`bY`a`Yfb`V]`XYhž`j`Yfgh`À`f`_`h
X]YgYg`9a`dZ]bXYb`ž`]bXYa`g]Y`Y]bYb`F`Ui`a`ZØf`5i`ghUi`gW`i`bX
J`YfV]bXi`b[`V]YhYh`"Gc`WXY`gcn]U`Yb`6]bXi`b[Yb`ž`[YdUUfh`a`]h`XYf
A`Ò[`]W_XY]hž`g]W`Ui`Zg]W`gY`Vgh`ni`_`c`bnYbhf]YfYb`ž`_`]bhYf`UggYb
Y]b`[Ygh`À`f`hYg`GY`VghVYk`i`gghgY]b`ž`XUg`Ub[Y`bUW`X`Yf`<`Y]a`fY]gY
Ub`À`h`"

9]bY`k`Y]hYfY`8]a`Ybg]cb`XYf`J`cfhY]Y`Y]Y[h]b`XYf`6Y[Y[bi`b[`a`]h

XYf'VU']bYg]gWXYb'?'i`hi`fi`bX`BUhi`fž`k`JY`g]Y`]b`NYbhfYb`k`JY`6U[`i`g`
>h]`cXYf`:`ci`f`GYUgcbg`f`Ygcfh`6U`]`Uh`GUmUb`Yf`YVVUf`k`]fX`"8`JY`
9]bV]bXi`b[`"c`_U`Yf`HfUX]h]cbYb`"gY`Yg`Xi`fW`gd]f]hi`Y`Y`
NYfYa`cb]Yb`k`JY`A`Y`i`_Uh`cXYf`Xi`fW`5i`gZ0[`Y`ni`F`Y]ghYffUggYb`
Yfk`Y]hYfh`XYb`<cf]ncbhi`bX`gW`UZh`Y]bY`h]YZYfY`K`YfhgW`Åhni`b[`
Z0f`X]Y`l`a`[`YVi`b[`"8]YgY`_i`hi`fY`Y`"a`a`Yfg]cbž`_ca`V]b]Yfh`a`]h`
XYf`5V[`YgW`]YXYb`Y]h]j`cb`h`ci`f]gh]gWXYb`<chgd`chgž`Yfa`0[`]W`h`
Y]bY`Ui`h`Yb`h]gWXY`9fZU`fi`b[`ž`X]Y`XYb`";`Y]gh`VYfY]WXYfhi`bX`c`Z`h`ni`
Y]bYf`b`Yi`Yb`DYfgdY`_h]j`Y`Ui`Z`XUg`Y][`YbY`@YVYb`Z0`f`h`"

@Ub[`Zf]gh][`i`[`YgY`Yb`hfU[`Yb`X]YgY`F`YhfYUhg`X`Uni`VY]ž`b`UW`X`U`h][`Y`
;`Yk`c`b`Y]hYb`ni`Yb`hk`]W`_Y`b`"HY]`bY`a`Yf`YfbYb`bYi`Y`K`Y`b`Ygg!
DfU`_h]_Ybž`gY]Yg`Xi`fW`M`c[`U!`GYgg]cbg`]a`C`bYk`cf`X`F`YhfYUhg`
cXYf`9fb`Å`fi`b[`gVYfUhi`b[`]a`F`9J`J`K`Y`b`Ygg`F`Ygcfhž`X]Y`g]Y`]b`
]`fYb`5`hU[`0VYfbY`a`Yb`_0bbYb`"8]Y`:`Å`][`_Y]hž`U`_h]j`ni`
Yb`hgd`UbbYb`"Y]bY`6U`UbW`nk`]gWXYb`Ub`fY[`YbXYb`5`_h]j`]h`Å`hYb`
i`bX`h]YZYf`Fi`Y`k`]fX`ni`Y]bYa`K`Yf`_nYi`[`ž`XUg`
GhfYggVYk`Å`h][`i`b[`Yf`Y]W`hYfh`"J]Y`Y`VYf]W`hYbž`XUgg`g]Y`b`UW`
]`fYf`F`0W`_Y`f`VYk`i`gghYf`9b`hgWXY]Xi`b[`Yb`0VYf`]`fY`";`Ygi`bX`Y]h`
i`bX`]`fYb`@YVYb`ggh]`hfYZZYbž`]bgd]f]Yfh]j`cb`XYb`9f`_Yb`b`hb]ggYbž`
X]Y`g]Y`Ui`Z`6U`]`[`Yk`c`b`bYb`UVYb`"

8]Y`i`i`i`f]0gYb`i`bX`XcW`YfXYbXYb`9f`YVb]ggYž`k`JY`g]Y`]b`F`YhfYUhg`
k`JY`?`Ufa`U`?`UbXUfU`cXYf`5X]k`UbU`Gj`Uf[`U`@c`_U`Ub[`YV`chYb`
k`YfXYbž`j`Yfgh`Å`_Yb`XUg`;`YZ0`ž`g]W`gY`Vgh`Yhk`Ug`;`i`hYg`ni`hi`b`
8]YgY`?`ca`V]bUh]cb`Ui`g`?`ca`Zc`f`hi`bX`VYk`i`gghYf`5i`gnY]h`gW`UZh`
Y]bY`9f]bbYfi`b[`ž`X]Y`U`g`5b`_Yf`X]Yb`hž`k`Ybb`XYf`5`hU[`]k`]YXYf`
Y`_h]gW`k`]fX`"8]Y`A`0[`]W`_Y]hž`]b`Y]bYa`k`Yb][`Yf`h`ci`f]gh]gWXYb`
F`U`a`Yb`ni`fY]gYbž`ZYfb`UV`j`cb`0VYf`Ui`ZYbYb`5`hfU`_h]cbYbž`Z0[`h`
Y]bY`k`Y]hYfY`9VYbY`XYf`F`i`Y`Y`]bni`ž`X]Y`XYb`";`Y]gh`b`UW`X`U`h][`
df`Å`h`"

9]b`6`]W`_Ui`Z`X]Y`5b[`YV`chYž`k`JY`g]Y`Ui`Z`8`Y`gh]b`Uh]cb`8`Y`i`i`Y`
j`cf[`YghY`h`k`YfXYbž`nY][`h`X]Y`6U`b`XV`fY]hY`Ub`A`0[`]W`_Y]hYbž`X]Y`
6U`]VYfY]h`Å`h`j`cb`d`Yfgcb`U`]g]YfhYb`Dfc[`fUa`a`Yb`V]g`Y]b`ni`
_i`hi`fY`Yb`9f`YVb]ggYb`"8]YgY`J]Y`ZU`h`ghY`h`g]WXYfž`XUgg`Y`XYf`
HY]`bY`a`Yf`[`Yb`Ui`XUg`Z]bXYhž`k`Ug`Yf`Z0f`gY]b`K`c`b`VY]Z]bXYb`
Vf`Ui`W`hž`i`bX`hf`Å[`h`X`Uni`VY]ž`XUgg`X]Y`d`c`g]h]j`Yb`9`ZY`_hY`b]W`h`bi`f`

ZØW h]['g]bXž'gcbXYfb'Y]b'V`Y]VYbXYg': i bXUa Ybh'V]'XYb"

8]Y'FY]gY'ni`Y]bYa`K Y`bYgg!F YhfYUh'Ui Z'6U`]'`]\bhYf`Àggh`Gdi fYbž
X]Y`k Y]h'ØVYf'X]Y'8Ui Yf'XYg'5i ZYbh\U`hg'\]bUi gfY]WXYb" `G]Y`V]YhYh
K Yf_nYi [Yž`gd]fUh]cb`i bX`Y]bY`h]YZfY`J YfV]bXi b[`ni`g]W
gY`VghžX]Y`XYb'5`hU[`VYfY]WXYfb`i bX`Y]bY'; fi bX`U[Y`ZØf
Ub\U`hYbXYg`K c\`VYZ]bXYb`gW UZZYb"

E i Y`Yb

- \ hhd g. ##V c c _fY hfY Uhg"WŁ a #g#k Y`bYgg!fY hfY Uhg
- \ hhd g. ##k k k "\ UfdYfgVUnUUf"WŁ a #W`hi fY #fUj Y`!X]b]
b[#[*' +, * %- , #\ Y!%+!VYgh!k Y`bYgg!fY hfY Uhg!
cZ!&\$&) #
- \ hhd g. ##V U[i gVU`]"WŁ a #XY #Ufh]WYg#[i]XY!hc!VU`]bYgY!
hfUX]h]c bU`!\ YU`]b[!dfUWh]W g#
- \ hhd g. ##b Xc`i b_]Y"WŁ a #/U`]!\ Y]`Yf!YfZU\ fi b[Yb!
Ya dZY\`i b[Yb#
- \ hhd g. ##XYgh]bUh]c bXY`i I Y"WŁ a #VYgh!k Y`bYgg!
fY hfY Uhg!VU`]#
- \ hhd g. ##k k k "YI c h]Wj`c mU[Yg"WŁ a #XY #V`c [#VYghY!
fYgc fhg!]b!VU`]!')' ,) "\ ha`
- \ hhd g. ##mc [Ua YX]W]bY"WŁ a #[i]XY!hmdYg!mc [U!
ghm`Yg#
- \ hhd g. ##k k k "WŁ YZg_UfhY"XY #YggYb!Ui Z!VU`]!&\$!VY`Y]
VhYghYb![Yf]WŁ hY!XYf!VU`]bYg]gWŁ Y!_i WŁ Y#
- \ hhd g. ##k k k "VU`]"XY #VU`]bYg]gWŁ Y!_i YWŁ Y#
- \ hhd g. ##k k k "VU`]"XY #UbXgWŁ UZh#
- \ hhd g. ##k k k "i f`Ui Vg[i fi "XY #Y]gYa U[Un]b #VU`]!
fY]gYVYf]WŁ h#
- \ hhd g. ##k k k "\ gYV`c ["WŁ a #k Y`bYgg!d f c [fUa #
- \ hhd g. ##Ubk YbXi b[a Y]ghYf"XY #gd U!Ubk YbXi b[Yb#
- \ hhd g. ##gi ghU]bUV]`]hm!gi VWW gg"WŁ a #XY #b UWŁ \ U`h][Y!
[YgWŁ UZhgd fU_h]_Yb#
- \ hhd g. ##YbYf[mh\ Yc fm"WŁ a #XY #XYb!i bX!DfU_h]_Yb!

