

K Ug']gh'[YgØbXYfž'[Y[f]``hž'[Y[f]``h'cXYf
 [YVfUhYb 3

5a Yf]_UbYf``]YVYb 'Zf]hh]YfhY '@YVYbga]hhY``'9g']gh'nk Uf'b]W h
 ja a Yf'[i h'ZØf'i bgž'UVYf'Yg']gh'Y]bY 'HUhgUW Y''9g'[]Vh'b]W hgz
 k Ug'k]f'b]W h[YfbY 'Zf]hh]YfYbž'Ui W b]W h'9]g''CVk c\``XYf
 ; YgW a UW_ b]W h'j cb 'X]YgYf'K Y'h']gh'Yf'b]W h'i bVYX]b[h
 [i h'ZØf'G]Y''6fUhYb]gh'U'gc 'VYggYf'U'g'6fUhYb'i bX'k Ufi a 3
 K ØfXY 'Yg' \ Y'Z Ybž'i bgYfY 'GdY]gYb 'ni '[f]``Yb3'K Y'W Y
 ?cW a Yh\cXY'ZØ[h'ΔfYa '9ggYb 'hUhgÀW X]Y'[Yf]b[ghY
 A Yb[Y'Ub': Yhh'\bni 'i bX'[]Vh'Yg'b cW UbXYfY
 , VYffUgW i b[Ybž'ØVYf'X]Y'k]f'6YgW Y]X'k]ggYb 'a ØggYb 3
 F YU']gh]gW '[YgY\Yb'gU[h'XYf'[Ygi bXY'A Yb gW Ybj YfghUbXž
 XUgg'XUg'<]bni ZØ[Yb'j cb ': Yhh'ni 'Y]bYf': f]hh'Yi gY'cXYf'Y]bYf
 DZUb bY': Yhh' / Ua dΔY``]d/



5a Yf]_UbYf``]YVYb 'Zf]hh]YfhY '@YVYbga]hhY``'9g']gh'nk Uf'b]W h
 ja a Yf'[i h'ZØf'i bgž'UVYf'Yg']gh'Y]bY 'HUhgUW Y''9g'[]Vh'b]W hgz
 k Ug'k]f'b]W h[YfbY 'Zf]hh]YfYbž'Ui W b]W h'9]g''CVk c\``XYf'; YgW a UW_
 b]W h'j cb 'X]YgYf'K Y'h']gh'Yf'b]W h'i bVYX]b[h[i h'ZØf'G]Y''

6fUhYb`]gh`U`gc`VYggYf`U`g`6fUhYb`i`bX`k`Ufi`a`3`K`ØfXY`Yg`\\Y`ZYbž`i`bgYfY`GdY]gYb`ni`[`f]`Yb3

K`Y`WXY`?cWxa`Yh\cXY`ZØ[`h\A`fYa`9ggYb`hUhg\W\`]W\`X]Y`[`Yf]b`[`ghY`A`Yb`[`Y`Ub`:`Yhh\`]bni`i`bX`[`]Vh`Yg`bcW\`UbXYfY`_,`VYffUgW\`i`b`[`Ybž`ØVYf`X]Y`k`]f`6YgW\`Y]X`k`]ggYb`a`ØggYb3

F`YU`]gh]gW\`[`YgY\`Yb`gU`[`h`XYf`[`Ygi`b`XY`A`YbgW\`Ybj`YfghUb`Xž`XUgg`XUg`<`]bni`ZØ[`Yb`j`cb`:`Yhh`ni`Y]bYf`:`f]hh`Yi`gY`c`XYf`Y]bYf`DZUb`bY`:`Yhh`ni`Yhk`Ug`\\`]bni`ZØ[`hž`XUg`VYfY]hg`ZYhh`]ghž`b\`a`[`]W\`:`Y]gW\`ž`XUg`Ua`\\`A`i`Z][`ghYb`[`YVfUhYb`k`]fX`8]Y`b]YXf][`ghY`A`Yb`[`Y`Ub`:`Yhhž`X]Y`\\`]bni`[`YZØ[`h`k`]fXž`]ghž`k`Ybb`XUg`9ggYb`[`Y[f]`h`k`]fXž`k`Y]`X]Y`:`Ua`a`Yb`c`XYf`XYf`Y`Y_hf]gW\`Y`6fc]`Yf`XUni`ZØ\`fYbž`XUgg`XUg`:`Yhh`j`ca`9ggYb`k`Y[`gW\`a`]`nh"

6Y]`Y]bYa`HYgh`Ub`XYf`I`b]j`Yfg]hm`c`Z`DYbbgm`j`Ub]U`k`UfYb`X]Y`I`b\hYfgW\`YXY`i`b`[`Ui`V`]W\`9g`k`i`fXYb`XfY]`Dfc`VYb`[`Ya`UW\`hž`Y]bY`[`Y[f]`hYž`Y]bY`Y]W\`h`gUi`h]YfhY`i`bX`X]Y`Xf]hhY`h]YZY`:`fYi`bX]b`8]Y`[`Y[f]`hY`:`Y]gW\`dfc`VYž`X]Y`i`b\hYf`Y]bYa`6fc]`Yf`Yf`[`YghY`h`k`i`fXYž`\\`UhhY`i`b`[`YZ\`f`Y]b`Dfc`n`Ybh`:`Yhhni`gUhnž`k`A\`fYbX`X]Y`gUi`h]YfhY`GcfhY`i`b`[`YZ\`f`Xcdd`Y`h`gc`j`]Y`k`Ufž`UVYf`gW\`cW\`YfYb`XYfk`Y]gY`k`Uf`g]Y`ZUgh`[`YbUi`X]Y`[`Y]W\`Y`k`]Y`X]Y`Zf]hh]YfhY`GcfhY`"

8`Ug`Dfc`V`Ya`VYghY\`h`XUf]bž`XUgg`k`]f`]a`5`[`Ya`Y]bYb`j`]Y`Zf]hh]YfhYg`:`Y]gW\`i`bX`UbXYfY`8]b`[`Y`b`XYb`HY][`[`YVYb`8`Ug`:`Y]gW\`b]a`a`h`Y\`f`]W\`[`YgU`h`b]W\`h`gc`j`]Y`:`Yhh`Ui`Z`UVYf`X]Y`DUb`UXY`i`bX`UbXYfY`:`U_hcfYb`bY\`a`Yb`Y]bY`[`fc`Y`A`Yb`[`Y`XUj`cb`Ui`Z`

K`Ybb`k`]f`Yhh`Y]b`a`U`[`YfYg`:`Yhh`j`Yfk`Yb`XYbž`gY\`Yb`k`]fž`XUgg`XUg`6fUhYb`j`]Y`Y]W\`h`b]W\`h`gc`UVgW\`Yi`]W\`]ghž`k`]Y`G]Y`hUhg\W\`]W\`XUW\`hYbž`UVYf`:`i`bX`Yg`[`]Vh`a`a`Yf`Y]bž`UVYf`]b`XYf`:`Y]W\`i`b`[`]Vh`Yg`b]W\`hž`j`]Y`Y`j`cb`i`bg`[`YVYb`g]W\`b]W\`h`XUa`]h`ni`Zf]YXYbž`bi`f`ni`VfUhYbž`k`]f`n`U\`Yb`k`Yb`[`5`i`za`Yf`g`Ua`_Y]h`Ui`Z`X]Y`5`f`h`Y`j`cb`2`Ybž`a`]h`XYb`Yb`k`]f`VfUhYbž`c`Zha`U`g`_Ui`ZYb`k`]f`X]Y`V`][`ghY`GcfhY`UbghUh`X]Y`ZØf`i`bg`VYghY`

9g`[`]Vh`[`i`hY`i`bX`gW\`Y`W\`hY`:`YhhY`6i`h`hYf`_Ubb`]b`A`U`Yb`

Y]b[Ybca a Yb'k YfXYb'i bX'k Ybb'G]Y'Δf'9ggYb'XUf]b'VfUhYbž
ZFU[Yb'G]Y']b'Ni _i bZh'bUW⁸ <YfnYf_fUb_i b[Yb''DZUbnYbÒ'Yž
fY]bYg'A U]gÒ'g]bX'j]Y'Y]W⁹h'XYf'f]W¹⁰h][Y'K Y[ž'k Ybb'G]Y'VfUhYb
i bX'XUg'A Y\`cXYf'DUb]YfYb'j Yf[YggYb'k c'Yb''6fUhYb'G]Y'c\bYž
i a 'X]Y': YhhUi ZbU\ a Y'Ui Z'Y]b'A]b]a i a 'ni 'VYgW¹¹fÀb_Yb"

6fUhYb']gh'bUhØf]W¹² XYf'VYghY'K Y[ž'i a 'Δf'9ggYb'ni '_cW¹³Ybž
j c'fUi g[YgYhhž'G]Y'hi b'Yg'Ui Z'XYa 'ØW¹⁴Yb\YfX''9]b][Y'j cb'i bg
XUW¹⁵hYb'YXcW¹⁶ž'XUgg'XUg'; f]`Yb'i bgYfYf'GdY]gYb']a ': fY]Yb'X]Y
5bhk cfhgY'"9g'gYb_hnk Uf'XUg: Yhhž'UVYf'Yg[]Vh'Ui W¹⁷Y]b][Y
, VYf'Y[i b[Yb'ni a ' ; f]`ZU_hcf"

8Yf'_U']Zcfb]gW¹⁸Y'K]ggYbgW¹⁹UZh'Yf'Ja Yg': Y'hc'b'i bHfYfgi W²⁰hY'X]Y
5i gk]f_i b[Yb'XYg'?cW²¹Ybg'ØVYf'; f]`_c\`Ybž'XYf'hfUX]h]cbY`Yb
GcfhYž'i bX'['Ui Vhž'XUgg'Y]b][Y'[Y[f]`hY'@YVYbga]hhY`hUhgÀW²²W²³?W²⁴
?fYVg'j Yfi fgUW²⁵Yb'_ÒbbYb"

9g'[]Vh'nk Y'A Ò['W²⁶_Y]hYbž'k]Y'Yg'dUgg]YfYb'_Ubbž'UVYf'`Ui h
: Y'hc'b']gh'X]Y'hfUX]h]cbY`ghYž'k Ybb'XUg: Yhh'j ca ': `Y]gW²⁷Ui Z'X]Y
`Y]Y]`Yb'?c\`Yb'hfcdZh'i bX'Y]bY'W²⁸Ya]gW²⁹Y'FYU_h]cb'Ui g'Òghž'k Ybb
X]Y': `Ua a Y'Ui ZZUa a hž'i a 'XUg: `Y]gW³⁰ni 'gW³¹k ÀfnYb''K Ybb'G]Y
X]Y'`Y]Y]`Yb'?c\`Yb'ni f'GY]hY'VYk Y[Ybž'XUa]h'XUg: Yhh'b]W³²h'X]fY_h
Ui Z'X]Y]?c\`Yb'hfcdZhž'k]fX'X]Yg'hYbXYbn]Y'`j Yf\]bXYfh'8Ug
?cW³³Yb'Ui Z'XYa ' ; Ug[f]`_Ubb'Ui W³⁴]b'X]YgYa '?Ua dZ'\]ZfY]W³⁵
gY]b"

G]Y'_ÒbbYb'Ui W³⁶j Yfgi W³⁷Ybž'VY]Y]bYf'b]YXf][YfYb'HYa dYfUhi f'ni
_cW³⁸Yb'i bX'X]Y'?c\`Yb'ni 'VYk Y[Ybž'k Ybb'G]Y'ØVYf'ΔfYb
hfUX]h]cbY`Yb'?c\`Yb'[f]`Yb'a ØW³⁹hYbž'i bX'j Yfgi W⁴⁰Ybž'bcfa U'Yg
<c'n'UbghY`Yj cb'<c'n_c\`Y'ni a ' ; f]`Yb'ΔfYg': `Y]gW⁴¹Yg'ni
j Yfk YbXYb"

K Ybb'ΔbYb'b]W⁴²hg'XUj cb'ni gU[hž']gh'X]Y'FYU']hÀhž'XUgg'[Y[f]`hY
@YVYbga]hhY`X]Y'VYghY'K U\`ni 'gY]b'gW⁴³Y]bYb''9fghYbg'_ca a h
X]Y': `Ua a Y'j cb'cVYb'i bX'XUg: Yhh'hfcdZh']b'Y]bY'DZUbbY'i bHfYbž
nk Y]hYbg'[]Vh'Yg'k Yb][Yf': Yhh'U'g'VY]a '6fUhYbž'i bX'Xf]hYbg'_Ubb
XYf'; f]`ΔfYg'?ÒfdYf'8]b[Y'Ubh' bž'ZØf'X]Y'G]Y'b]W⁴⁴h'VYfY]h'g]bX"

6fUi WX Yb 'K]f'VYggYfY'; fØbXYži a 'Δf'; `Y]gWX 'cXYf'ΔfYb';]gWX 'ni
VfUhYb3

≠b gd]f]Yfh'j cb'6YfbUfX'8i _Y

8YhU]g

6Ygi WX Yb 'G]Y 'i bg'Ui Z 'a Y]b!Z]hbYgg"bYh