

? Y]bY`9bhgWÅX][i b[`ZØf`Hc hU`Ui gZÄ`Y.
5b`Y[Yf`]a `8]`Ya a U`i a `fi gg]gWÅ Y
K Yfhd Ud]YfY

8]Y`K YghgUb_h]cbYb`[Y[Yb`Fi gg`UbX`ZØ\ fYb`ni `Y]bYa
HchU`j Yf`i gh`ZØf`≠j Yghc fYb" `? Y]b`GWÅ UXYbgYfgUhn`Xi fWÅ`X]Y
6i bXYgfY[]Yfi b["

8]Y`K]fhgWÅ UZh`U[Y`]b`Fi gg`UbX`\ Uh]g]WÅ`Xi fWÅ`X]Y`a Ugg]j Yb
GUb_h]cbYb`XYg`K YghYbg`XfUa Uh]gWÅ`j YfÅbXYfh" `6YgcbXYfg
VYhfcZZYb`g]bX`X]Y`5b`Y[Yfz`X]Y`]b`fi gg]gWÅ Y`K Yfhd Ud]YfY
]bj Ygh]Yfh`\ UVYb" `8]YgY`G]hi Uh]cb`]gh`b]WÅ h`bi f`_ca`d`YI ž`gcbXYfb
Ui WÅ`U`Ufa]YfYbX`ZØf`U`Y`bYž`X]Y`]f` ; Y`X`]b`XYb`fi gg]gWÅ Yb
A Uf_h`[YghYW_h`\ UVYb`i bX`bi b`_Y]bYb`Ni [f]ZZ`a Y`f`Ui Z`]fY
? Ud]hU`Ub`U[Yb`\ UVYb" `9g`]gh`Y]b`XYi h`]WÅ Yg`NY]WÅ Yb`XUZØfž`k]Y
[Ycdc`h]gWÅ Y`? cbZ`_hY`X]fY`_h`XUg`]bX]j]Xi Y`Y` :]bUb`nj Yf`U`hYb
VYY]bZi ggYb`_ÖbbYb"

8]Y`? f]gY`VY[Ubb`i ba]hY`VUf`bUWÅ`XYa`GhUfh`XYg`5b[f]Zg_f]Y[g
Ui ZX]Y`I _fU]bY`ja`≠\f`&\$&&" Ni bY`a YbXY`8 fi W_a]hY`k i fXYb
Y]b[YgYhnhž`i bX`]b` : c`[Y`XYggYb`\ Uh`XYf`K YghYb`GUb_h]cbYb
j Yf`Åb[hž`X]Y`XYb`< UbXY`a]h`fi gg]gWÅ Yb`K Yfhd Ud]YfYbž`XUfi bhYf
5_h]Yb`i bX`GhUUhgUb`Y`\ Ybž`ja`a`cV`]g]Yfh`\ UVYb" `8]Y`5b`Y[Yf`g]bX
bi b`]b`Y]bYf`YV`UZhYb`i bg]WÅ Yf`Y]h[YZUb[Ybž`k Å`fYbX`g]Y`Ui Z
X]Y`A Ö[`]WÅ`_Y]h`\cZZYbž`\f`]bj Ygh]YfhYg` ; Y`X`k]YXYf`bi hnYb`ni
_ÖbbYb" `6Yf]WÅ hYb`ni Zc`[Y`\ UVYb`Y]b][Y`j cb`]bYb`gY]h`nk Y]
≠\fYb`_Y]bYb`Ni [f]ZZ`a Y`f`Ui Z`]f` ; Y`X" `8]Yg`]gh`Y]b`XYi h`]WÅ Yg
≠X]n`XUZØfž`k]Y`VYgcbXYfg`f]g`Ubh`≠j Ygh]h]cbYb`]b`@ÅbXYf`a]h
ZfU[]Yf`k]fhgWÅ UZh`]WÅ Yf`i bX`dc`h]gWÅ Yf`GhUV`]hÅh]g]bX"

F Y[]Yfi b[gYf`_`Åfi b[. `? Y]b`GWÅ UXYbgYfgUhn
ZØf`≠j Yghc fYb

⊕`Y]bYf'`Øb[ghYb`GhY`i b[bU\`a Y`XYf`6i bXYgfY[]Yfi b[`k i fXY
_`Ufž`XUgg`VYhfc`ZYbY`5b`Y[Yf`_Y]bYb`GW\ UXYbgYfgUhn`ZØf`X]Y`]b
fi`gg]gW\Yb`K`YfhdUd]YfYb`Yf`]hhYbYb`J`Yf`i ghY`Yfk`UfhYb`XØfZYb"
8]Yg`]gh`Y]bY`V]hhYfY`F`YU`]hÅh`ZØf`j`]Y`Yž`X]Y`Yf\`c`ZzhYbž`ni`a`]bXYgh
Y]bY`HY`]Yb`hgW\`ÅX][`i`b[`ZØf`\`fY`?`Ud]hU`j`Yf`i ghY`ni`Yf\`U`hYb`"
GhUhhXYggYb`k`]Yg`X]Y`6i bXYgfY[]Yfi b[`XUfUi`Z`\]bž`XUgg`X]Y
9][`Ybj`YfUbhk`cfhi`b[`XYf`⊕j`YghcfYb`]b`gc`W\Yb`f]g]_cVY\`UZhYhYb
5_]Yb`X]Y`;`fi`bX`U[`Y`X]YgYf`9b`hgW\Y]Xi`b[`]gh`"

8]Y`I`bg]W\Yf\`Y]h`V`Y]Vhž`XU`Ui`W\`X]Y`A`Ö[`]W\`_Y]h`VY`ghY\`hž`XUgg
X]Y`XYfnY]h][`Yb`GUb`_h]cbYb`Ui`Z`UVgY\`VUfY`NY]h`VY`ghY\`Yb`V`Y]VYb`"
9g`k`]fX`VYf]W\`hYhž`XUgg`;`Y`XYf`Ui`g`GhUUhgUb`Y]\`Ybž`X]Y
a`]hhYfk`Y]Y`ZÅ``][`g]bXž`hfYi`\`ÅbXYf]gW\`j`Yfk`U`hYh`k`YfXYbž`k`Ug
VYXYi`hYhž`XUgg`g]Y`Y]b[`YZfcfYb`g]bXž`V]g`X]Y`GUb`_h]cbYb
Ui`Z[`Y\`cVYb`k`YfXYb`"i`bhYf`X]YgYa`8fi`W`_gY\`Yb`g]W\`5b`Y[`Yf
Y]bYf`gW\`k`]bXYbXYb`<`c`Zbi`b[`]Y[`YbØVYfž`k`Å\`fYbX`X]Y`;`YZU\`f
Y]bYg`HchU`j`Yf`i`ghYg`]\`fYf`⊕j`Ygh]h]cbYb`]a`a`Yf`[`fY]ZVUfYf`k`]fX`"

F`YU`_h]cbYb`i`bX`fYW\`h`]W\`Y`GW\`f]hhY

8]YgY`G]hi`Uh]cb`k`]fZhi`Ui`W\`:`fU[`Yb`ØVYf`fYW\`h`]W\`Y`GW\`f]hhY`Ui`Zž
X]Y`5b`Y[`Yf`[`Y[`Yb`6fc`_Yf`i`bhYfbY\`a`Yb`_`ÖbbYbž`X]Y
a`Ö[`]W\`Yfk`Y]gY`XYb`HfUbgZYf`j`cb`K`YfhdUd]YfYb`bUW\`XYf
9g`_U`Uh]cb`XYg`?`cbZ`_hg`j`YfnÖ[`Yfh`\`UVYb`"Gc`W\`Y`fYW\`h`]W\`Yb
GhfUhY[]Yb`_`ÖbbhYb`Y]bYb`5i`gk`Y[`V]YhYb`cXYf`ni`a`]bXYghY]bY
A`Ö[`]W\`_Y]h`XYf`?`ca`dYbgUh]cb`ZØf`X]Y`Ub[`YgdUbbhYb`5b`Y[`Yf
XUfghY`Ybž`X]Y`Yb`hk`YXYf`]b`fi`gg]gW\`Y`C`f][`]bU`U`_h]Yb`cXYf`]b
5a`Yf]W\`b`8Yd`cg]hUfm`F`YW\`]d`hg`f58`F`gk`]bj`Ygh]Yfh`\`UVYb`" <`]YfVY]
[`Y\`h`Yg`XUfi`a`žY]bY`ZU]fY`6Y\`UbX`i`b[`]b`Y]bYf`VYfY]hg
Ub[`YgdUbbhYb`k`]fhgW\`UZh`]W\`Yb`@U[`Y`ni`[`Yk`Å\`f`Y]ghYb`"

8`UfØVYf`\]bUi`g`]gh`Yg`k`]W\`h][`ni`Yfk`Å\`bYbž`XUgg`X]Y`fYW\`h`]W\`Yb
F`U\`a`YbVYX]b[`i`b[`Yb`i`bX`X]Y`VY`ghY\`YbXYb`⊕Zcfa`Uh]cbYb`ni`f
A`Uf`_hg]hi`Uh]cb`Y]b`_`ca`d`Yi`Yg`6`]X`d`f`ÅgYbh]YfYb`"8]Y
6i`bXYgfY[]Yfi`b[`VYhcbhž`XUgg`Yg`_Y]bY`J`c`fk`Ufbi`b[`ZØf`5b`Y[`Yf
[`UVž`XU`X]Yg`X]Y`K`]f`_gUa`_Y]h`XYf`GUb`_h]cbYb`[`YZÅ\`fXYb`_`ÖbbhY`"
8]Y`5b`Y[`Yf`k`i`fXYb`XUfØVYf`]b`?`Yb`b`hb]g`[`YgY`hnhž`XUgg`d`c`]h]gW\`Y
GdUbbi`b[`Yb`i`bX`k`]fhgW\`UZh`]W\`Y`F`Yghf]_h]cbYb`d`chYbn]Y`Y`Y`"

F]g]_Yb`XUfghY`Ybž`X]Y`]b`]\fY`9bhgWXY]Xi b[gZ]bXi b[`Y]bZ]Y» Yb
a ØgghYb"

8]YgY`9bhgWXY]Xi b[`nY][h`Y]bYb`K YbXYdi b_h`Ui Zž`k]Y
]bhYfbUh]cbU`Y`6Yn]Y\i b[Yb`i bX`[Ycdc`h]gWXY`GdUbbi b[Yb`X]Y
:]bUbnghfUhY[]Yb`j cb`ϕX]j]Xi Yb`i bX`ϕj YghcfYb`VYY]bZi ggYb
_ÒbbYb" `ϕj YghcfYb`ghY\Yb`bi b`j cf`XYf`<YfUi gZcfXYfi b[ž`Ui g
X]YgYf`G]hi Uh]cb`XUg`6YghY`ni `a UWXYb"

8 YhU]`g

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