

: fY]gh]`gWk k ]a a Yf`Gj Yb`GWk k Ufn.  
GhUf\_Yf`) " `D`Uhn`VY]`C`ma d]U`&\$&(

Gj Yb`GWk k Ufn`VY`Y[ h]a `C`ma d]gWk Yb`, \$\$!a !: fY]gh]!  
F YbbYb`XYb`ZØbZhYb`D`Uhn" `6fcbnY`i bX`XYf`#U`YbYf  
DU`hf]b]Yf]`V`Y]VYb`]`a ` \_bUdd`j Yfk Y`fh"

C`ma d]gWk Yg`GWk k ]a a Yb. `9]b`6`]W\_`Ui Z  
Gj Yb`GWk k Ufn `VYY]bXfi W\_YbXY`@Y]ghi b[

⇒a `FU`a Yb`XYf`C`ma d]gWk Yb`Gd]Y`Y`]b`DUf]g`U`h`XYf  
: fY]gh]`gWk k ]a a Yf`Gj Yb`GWk k Ufn`Y]bY`VYa Yf\_Ybgk YfhY`@Y]ghi b[  
[ YnY][ h" `8Yf`&#!`Å`f][ Y`GWk k ]a a Yf`j cb`K Ugdc`- , `<Ubbcj Yf  
VY`Y[ hY`]a `FYbbYb`ØVYf`, \$\$`A YhYf`XYb`[ YhY]`hYb`ZØbZhYb`D`Uhnž  
k Ug`]b`XYf`Gdcfh[ Ya Y]bgWk UZh`ZØf`5i ZgY`Yb`gc f[ h" `8]YgYg  
9f[ YVb]g`]gh`Y]b`NY]Wk Yb`ZØf`X]Y`k UWk gYbXY`HU`Yb`hY`]a  
XYi hgWk Yb`GWk k ]a a Yb"

8]Y`K`Yhh\_Ua`dZYf[ YVb]ggY`]a ` , VYfV`]W\_

GWk k Ufn`YffY]Wk hY`XUg`N]Y`]b`Y]bYf`NY]hj cb`+. ( ` ž) - `A ]bi hYb`i bX  
j YfdUgghY`bi f`U`i Wk XØbb`XUg`DcX]i a " `I a `X]Y`6fcbnYa YXU]`Y  
i bX`XYb`]hU`Yb]gWk Yb`GWk k ]a a Yf`; fY[ cf]c`DU`hf]b]Yf]`ni  
ØVYf`c`Ybž`ZY`hYb`]`a `Yhk Ug`a Y`f`U`g`j ]Yf`GY`\_i bXYb`" `8Yf`G]Y[  
[ ]b[ `Ub`XYb`#Yb`8Ub]Y`K ]ZYbž`k Å`fYbX`XYf`I G!5a Yf]\_UbYf  
6cVVm: ]b\_Y`X]Y`G]VYfa YXU]`Y`g]Wk YfhY`" `9g`]gh`Yfk Å`bYbgk Yfhž  
XUgg`GWk k Ufn`]a `YfbYi hYb`J`Yf[ `Y]Wk `a ]h`XYa `: fUbncgYb`8Uj ]X  
5i Vfm[ `Y]Wk Ui Z`k Ufž`k Ug`X]Y`E`i U`]h`h`gY]bYf`@Y]ghi b[  
i b`hY`fghfY]Wk h"

GWk k UfnYg`K`Y[ `ni a `C`ma d]gWk Yb`9fZc`[

8 ]Y`@Y]ghi b[ Yb`j cb`Gj Yb`GWk Ufn`fYdfAgYbh]YfYb`b]W`h`bi f  
dYfg`Ob`]W`Y`9fZc`[ Yž`gcbXYfb`Ui W`X]Y`9bhk ]W`i b[ `XYg  
XYi hgW`Yb`GWk ]a a`gdcfhg"CVk c\`XYf`fY]k UggYf!  
C`ma`d]Ug]Y[ Yf`:`cf]Ub`K Y`VfcW`Ua`A`cbhU[ `Ui g`XYa  
K YhhVYk YfV`Ui ggW`YXž`nY][ h`X]Y`D`Uhn]Yfi b[ `j cb`GWk Ufnž`XUgg  
Yg`Y]bY`j ]Y`j YfgdfYW`YbXY`Ni `i bZh`ZØf`XUg`XYi hgW`Y`GWk ]a a`Yb  
[ ]Vh"GWk Ufn`9f[ YVb]g`\_`ObbhY`UbXYfY`† b[ Y`GWk ]a a`Yf  
]bgd]f]YfYb`i bX`XYb`Ni gUa a`Yb`U`h]a`HYUa`ghAf`\_Yb"

## 8 ]Y`6YXYi hi b[ `X]YgYf`@Y]ghi b[ `ZØf`X]Y GWk ]a a [ Ya Y]bXY

8 Ug`5VgW`bY]XYb`j cb`Gj Yb`GWk Ufn`\Uh]b`XYf  
GWk ]a a [ Ya Y]bgW`UZh] YfgW`YXYbY`F`YgcbUbnYb`j Yfi fgUW`h"9g  
j YfXYi h]W`h`XYb`K YhhVYk YfV`Ui Z`]bhYfbUh]cbU`Ya`B]j YUi`i bX  
X]Y`<YfUi gZcfXYfi b[ Ybž`X]Y`† b[ Y`5h\`YhYb`a`Y]ghYfb`a`ØggYbž`i a  
]b`XYb`C`ma`d]UfYb`bgdcfh]Y]bni hfYhYb"8 ]Y`:`Ugn]bUh]cb`XYg  
GWk ]a a`Ybg]gh`bUW`k ]Y`j cf`i b[ YVfcW`Ybž`k Ug`Xi fW`X]Y  
J ]Y`nU\`XYf`Ni gW`Ui Yf`i bX`XUg`ÒZYbh]W`Y`hYfYggY`Ub`XYb  
Gd]Y`Yb`XYi h]W`k ]fX"GC`W`Y`@Y]ghi b[ Yb`g]bX`Yb`hgW`Y]XYbXž`i a  
XYb`Gdcfh]b`XYf`²`ZYbh]W`\_Y]h`ni`ZØfXYfb"

## 5 i gV`]W`\_`Ui Z`\_ØbZh][ Y`K`Yhh`Àa`dZY

: Øf`Gj Yb`GWk Ufn`VYXYi hYh`XYf`ZØbZhY`D`Uhn`b]W`h`XUg`9bXYž  
gcbXYfb`j ]Y`a`Y`f`Y]bY`A`ch]j Uh]cb`ZØf`ni`\_ØbZh][ Y`K`Yhh`Àa`dZY"  
8 ]Y`C`ma`d]gW`Yb`Gd]Y`Y`V]YhYb`Y]bY`Y]bn][ Ufh][ Y`D`UhhZcfa`ž`XYb  
Y][ YbYb`@Y]ghi b[ gghUbX`ni`nY][ Yb`"A`]h`gY]bYa`HU`Ybh`i bX`gY]bYf  
9bhgW`cggYb`Y]h`\_ØbbhY`GWk Ufn`]b`XYb`\_ca`a`YbXYb`>Y`fYb  
bcW`[ fØ`YfY`9fZc`[ Y`ZY]Yfb"Ni gW`Ui Yf`i bX`:`Ubg`XØfZYb`Ui Z`X]Y  
b`W`ghYb`K`Yhh`Àa`dZY`[ YgdUbb`h`gY]bž`]bgVYgcbXYfY`Ui Z`X]Y  
K`Y`ha`Y]ghYfgW`UZhYb`i bX`X]Y`b`W`ghYb`C`ma`d]gW`Yb`Gd]Y`Y"

· · B 5;

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