

< YfVgh`]W\ Yf`5i ZgW\ k i b [ .  
5fVY]hg`cg][ \_Y]h`]b` ; `UXVYW\_ž`6c hhfcd  
i bX` ; Y`gYb\_]fW\ Yb`g]b`\_h`

⇒ a `C \_hcVYf`j YfnY]W\ bYhY`XYf`5fVY]hga Uf\_h`]b` ; `UXVYW\_ž`  
6c hhfcd`i bX` ; Y`gYb\_]fW\ Yb`Y]bYb`Y]W\ hYb`F ØW\_[ Ub[ `XYf`  
5fVY]hg`cgYbnU\ ``

; `UXVYW\_ž`8Yi hgW\ `UbX`!`⇒ a `C WcVYf`&\$&( `]gh`X]Y  
5fVY]hg`cg][ \_Y]h`]b` ; `UXVYW\_ž`6c hhfcd`i bX` ; Y`gYb\_]fW\ Yb`Y]W\ h  
[ Ygi b\_Yb`" `ϕg[ YgUa` h`gi W\ Yb`fi bX`&- ") \$\$`A YbgW\ Yb`]b`XYf`  
FY[ ]cb`Y]bYb` `ϵVž`k Ug`Y]bYb`\_Y]bYb` : cfhgW\ f]h`]a` J Yf[ `Y]W\ `ni a  
J cfa` cbUh`XUfghY``h`6YgcbXYfg`YfZFYi `]W\ `g]bX`X]Y`9bhk` ]W`i b[ Yb  
]b` ; `UXVYW\_`i bX`6c hhfcdž`k c`a` Y\ fYfY`A YbgW\ Yb`Y]bY`bYi Y  
5bghY``i b[ ` [ Yž` bXYb` \UVYb`"8Yb`bcW\ `U[ Yb`X]Y`9fk` Ufhi b[ Yb`XYf`  
5fVY]hgU[ Ybhi` fYb`Ui` ZY]bYf`gh`Af`\_YfYb`<YfVghVY`YVi b[ "

Hfchn`XYf`dcg]h]j Yb`HfYbXg`]gh`X]Y`G]hi Uh]cb`k` Y]hYf\ ]b  
\YfUi`gZcfXYfbX`" `ϕ ; Y`gYb\_]fW\ Yb`a` ]h`%( ž` `DfcnYbh`V`Y]Vh`X]Y  
5fVY]hg`cgYbei`chY`Ua` \`ÖW\ ghYbž`[ YZc`[`h]j`cb` ; `UXVYW\_`a` ]h`%\$ž`  
DfcnYbh`i bX`6c hhfcd`a` ]h` , ž`%DfcnYbhž`XYf`b]YXf][`ghYb`E`i`chY`]b  
XYf`FY[ ]cb`"i`a`X]Y`7\UbW\`b`Ui`ZXYa`5fVY]hga Uf\_h`ni`Yf\`Ö\Ybž`  
fi`Zh`X]Y`5[ Ybhi`f`]b` ; Y`gYb\_]fW\ Yb`XUni`Ui`Zž`g]W\ `]bhYbg]j`Yf`a` ]h  
K`Y]hYfV]`Xi`b[ Yb`ni`VYgW\`ÄZ]h[ Ybž`i`a`ZØf`ni`\_ØbZ]h[ Y  
GhY``YbUb[ YVchY`[ Yk`UddbYh`ni`gY]b`"K`Y]hYfY`8YhU]`g`ni`f  
U\_hi`Y``Yb`@U[ Y`Z]bXYb`g]W\ `]b`Y]bYa`6Yf]W\ h`Ui`Z  
k k k "fUX]cYa`gW\ Yf`]ddY`XY"

8YhU]`g	
C fh	; `UXVYW_ž`8Yi hgW\ `UbX

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