

B Yi Y ' K Y [ Y ' XYf ' A cV ] ` ] hÄh. ' B 5 J 99  
dfÄgYbh]Yfh' ðbcj Uh]c b ggWÄhnY ' Ui Z' XYf  
= 5 ' & \$ & (

9bhXYW\_Yb'G]Y'X]Y' bYi YghYb' ðbcj Uh]cbYb' j cb' B 5 J 99 ' Ui Z  
XYf' = 5 ' & \$ & ( ' ] b ' 6 Yf ' ] b ' 6 Ygi WÄYb' G]Y' X]Y  
DfcXi \_ hdfÄgYbhUh]cb' Ua ' \* " ' GYdhYa VYf' i bX' YfZU\`fYb' G]Yž  
k ] Y ' B 5 J 99 ' X]Y ' Ni \_ i bZh' XYf' Y' Y \_ hf]gWÄYb  
? i fngfYW\_Yba cV] ` ] hÄh' fYj c' i h]cb]Yfh" ' A ] h' V]g\`Yf' ØVYf  
& \$ \$ " \$ \$ \$ ' Bi hnYfb' k Y' hk Y]h' i bX' nU\`fY]WÄYb  
5i gnY]WÄbi b [ Ybž' XUfi bhYf' XYf' F YX' 8 ch' 5k UfXž' gYhnh' B 5 J 99  
bYi Y ' A U» ghÄVY ' ] b ' 8 Yg] [ b ' i bX' HYWÄbc' c [ ] Y " ' GY] Yb' G]Y' HY]`  
X]YgYf' Ui ZfY [ YbXYb' 9bhk ] W\_ i b [ °



B 5 J 99 ' i bX' X]Y ' Ni \_ i bZh' XYf' i fVUbYb  
A cV] ` ] hÄh. ' 9] b ' 6 ` ] W\_ ' Ui Z' X]Y ' = 5 ' & \$ & (

8]Y' = 5 ' & \$ & ( ' ghY\`h] cf' XYf' HØf' i bX' dfca ] gg]Yfh' nU\`fY]WÄY  
gdUbbYbXY' 9bhk ] W\_ i b [ Ybž' ] bgVYgcbXYfY ' ] a ' 6 YfY] WÄ' XYf  
? i fngfYW\_Yba cV] ` ] hÄh" ' J ca ' \* " ' V] g % \$ " ' GYdhYa VYf' & \$ & ( ' k ] fX

6Yf`]b`ni f`6Ø\`bY`ZØf`]bbcj Uh]j Y`HYW`bc`c[ ]Yb`i bX`bYi Y  
DfcXi \_hYž`X]Y`XUg`DYbXY`b`]b`i fVUbYb`F`Ai a`Yb`fYj`c`i h]cb]YfYb  
\_ØbbhYb"i bhYf`XYb`Ui gghY`YbXYb`i bhYfbY`a`Yb`gh]W`h`B`5`J`9`9  
\Yfj`cfž`Y]b`i bhYfbY`a`Ybž`XUg`g]W`fUgW`U`g`k`]W`h][`Yf`5`\_hYi`f`]b  
XYf`9`Y`\_hfca`cV`]h`h`Y`hUV`]Yfh`\`Uh"

8]Y`A`Uf`\_hY]bZØ\`fi b[ `bYi`Yf`DfcXi`\_hY`j`cb`B`5`J`9`9`Z]bXYh`Ua`"\*"  
GYdhYa`VYf`i`a``%(`.`\$`i`\`f`ghUhhž`i`bX`X]Y`9fk`Ufhi`b[`Yb`g]bX`\`cW`"  
8Ug`A`chc`XYf`Df`ÄgYb`hUh]cb``7mVYfdi`b`ž`:`i`hi`f]ga`i`gi`bX  
HYW`bc`c[ ]Y``j`Yfgdf]W`h`b]W`h`bi`f`hYW`b]gW`Y`<][`\`][`\hgž  
gcbXYfb`Ui`W`Y]bYb`Ui`ZfY[`YbXYb`6`]W`\_]b`X]Y`Ni`\_i`bZi`XYf  
A`cV`]h`h`"8]YgYf`5bgUhn`\_ØbbhY`Y]bYb`VYXYi`hYbXYb`9]bZi`gg`Ui`Z  
X]Y`5fhi`bX`K`Y]gY`\`UVYbž`k`]Y`A`YbgW`Yb`]b`Gh`X`hYb`fY]gYb"

8]Y`F`Y]gY`j`cb`B`5`J`9`9`VY[`Ubb`]a``d\`f`&`\$`&`%`ž`i`bX`XUg  
i`bhYfbY`a`Yb`\`Uh`gW`bY`:`cfhgW`f]hhY`[`Ya`UW`hž`i`a``ØVYf  
&`\$`"\$`\$`\$`B`i`hYf`k`Y`hk`Y]h`ni`Y`ffY]W`Yb`"8]Yg`nY][`h`b]W`h`bi`f`XUg  
k`UW`gYbXY``hYfYggY`Ub`Y`Y`\_hf]gW`Yb`A`cV`]h`h`g`Øgi`b[`Ybž  
gcbXYfb`Ui`W`XUg`ni`bY`a`YbX`i`a`k`Y`hVYk`i`gghY`J`Yf`U`hYb`XYf  
GhUXhVYk`c`\`bYfž`X]Y`ni`j`Yf`Ägg][`Y`i`bX`gh]j`c`Y`HfUbgdcfha`]hhY`  
gi`W`Yb`"B`5`J`9`9`]gh`a`]hh`Yfk`Y]Y`]b`a`Y`\`f`U`g`'`\$`@`ÄbXYfb`U`\_h]j`i`bX  
\`Uh`Yg`[`YgW`UZZhž`g]W`Y]bYb`D`Uhn`Ui`Z`XYa`i`a`\_`Äa`dZ`hYb`A`Uf`\_h`ZØf  
9!G`W`c`hYf`i`bX`UbXYfY`A`cV`]h`h`g`Øgi`b[`Yb`ni`g]W`Yfb"

9]b`:`fi`bX`ZØf`X]YgYb`9fZc`[`g]bX`X]Y`\_cbh]bi`]Yf`]W`Yb  
`h`j`Ygh]h]cbYb`]b`:`cfgW`i`b[`i`bX`9bhk`]W`\_i`b[`"B`5`J`9`9`k`]Xa`Yh`+`\$  
i`gY]bYg`DYfgcbU`g`XYf``h`bcj`Uh]cb`i`bX`" `\$i`XYg`6i`X[`Yhg`XYf  
K`Y]hYfYbhk`]W`\_i`b[`bYi`Yf`HYW`bc`c[ ]Yb`"Gc`W`Y`6Ya`Ø`i`b[`Yb  
gd]Y[`Y`b`g]W`\_Ui`W`\_]b`XYb`nU`\`fY]W`Yb`5i`gnY]W`bi`b[`Yb`k`]XYfž`X]Y  
XUg`i`bhYfbY`a`Yb`ZØf`gY]bY`8Yg][`b!`i`bX`HYW`bc`c[ ]YUbgdfØW`Y  
Yf`U`hYb`\`Uhž`Y]bgW`Y]Y»`]W`X`Yg`dfYgh][`Yhf`ÄW`h][`Yb`F`YX`8`ch  
5k`UfXg"

8]Y`9bhYfY`XYf`bYi`Yb`DfcXi`\_hY`k`Ä`\`fYbX`XYf`A`YggY`\_ØbbhY`XYb  
HfYbX`j`Yfgh`Äf`\_Ybž`XYb`i`fVUbYb`J`Yf`\_Y`\`Xi`fW`\_]bbcj`Uh]j`Y  
@Øgi`b[`Yb`bUW`\`U`h][`Yf`i`bX`YZZ]n]YbhYf`ni`[`YghU`hYb`"DYbX`Yfž`X]Y  
X]Y`A`Ø[`]W`\_Y]hYb`XYf`bYi`Yb`:`Yf`ÄhY`Yf`YVYbž`\_ØbbhYb`X]Y`Y`Y`Y  
Y]bYg`i`a`k`Y`hZfYi`bX`]W`YfYb`5`hU[`g`i`bhYfghØhnYb`i`bX`]b`X]Y`HUh

i a gYmYb"8]Y`VYj cfghY\YbXY`DfÅgYbhUh]cb`j]b`<U`Y`&"&6ž`GhUbX  
&&&ž]gh`Y]bY` ; Y`Y[ Yb\Y]hž`g]W`a` ]h`XYb`Ui ZfY[ YbXYb  
: cfhgW`f]hhYb`j`cb`B5J99`j`YfhfUi`h`ni`a` UW`Yb`"

5a`\*`"GYdhYa`VYf`k`]fX`g]W`nY][ Ybž`k`]Y`B5J99`gY]bY`J`]g]cbž`Y]b  
ZØ\fybXYg`l`bhYfbY\`a`Yb`]a``6YfY]W`]bbcj`Uh]j`Yf`  
A`cV]`h`h`g`Ògi`b[ Yb`ni`gY]bž`]b`X]Y`DfUI`]g`i`a`gYmYb`\_Ubb"8]Y  
VYj`cfghY\YbXYb`DfcXi`\_hY`\_ÒbbhYb`b]W`h`bi`f`X]Y`5bZcfXYfi`b[ Yb  
XYf`\Yi`h][ Yb`DYbX`Yf`YfZØ`Ybž`gcbXYfb`Ui`W`X]Y`F]W`hi`b[  
VYgh]a`a`Ybž`]b`X]Y`g]W`X]Y`i`fVUbY`A`cV]`h`h`Yb`hk`]W`\_Y`b`k`]fX`"

: Øf`k`Y]hYfY`bZcfa`Uh]cbYb`ni`B5J99`i`bX`gY]bYb`bYi`YghYb  
HYW`bc`c`[ ]Yb`VYgi`W`Yb`G]Y`V]hY`bUj`YYhYW`"W`a`"

8YhU]`g

6Ygi`W`Yb`G]Y`i`bg`Ui`Z.`a`Y]b!VYf`]b`bYh