

: f]YXYbUi 'dfcZ]h]Yfh. '' \$'bYi Y
6Ui a gWXY]VYb'ZØf'a Y\ f'; fØb'i bX
k Yb][Yf'<]hnY

9fZU\ fYb'G]Y']b'i bgYfYf'DfYggYa]hhY]'i b[ž'k]Y'XYf
: UWXYfY]W' GhfU» Yb'XYg'HYa dY'\cZ]GWXØbYVYf[Yf'5a hg'' \$
6Ui a gWXY]VYb']b': f]YXYbUi 'Ybhg]Y[Y'b'k]fX"
6Yn]f_gghUXhfÅh]b'8f''9''YbVYW_ Yf_Åfh'X]Y'J cfhY]'Y'ZØf'XUg
GhUXh_]a U'i bX'X]Y'; Ygi bX\Y]h'XYf'6Åi a Y''@YgYb'G]Y'a Y\ f
ØVYf'X]Y' [Yd'UbhYb'A U» bU\ a Yb'ZØf'&\$&(°

⇒ '6Yn]f_ HYa dY'\cZ]GWXØbYVYf['ghY\Yb'VYXYi hYbXY
YbXYfi b[Yb'Ui ZXYa 'Dfc[fUa a ž'X]Y'g]W'Ui ZXUg'GhUXhV]'X'i bX
XUg'?`]a U'Ui gk]f_Yb'k YfXYb''8]Y' [Yd'UbhYb
9bhg]Y[Y'i b[ga U» bU\ a Yb'bY\ a Yb'_cb_fYhY': cfa Yb'Ubž'XYbb
fi bX'' \$'6Ui a gWXY]VYb']b': f]YXYbUi 'gc''Yb'&\$&('Yfk Y]hYfh
k YfXYb''8]YgY' ð]h]Uh]j Y'j YfZc`[h'XUg'N]Y'ž'X]Y'; Ygi bX\Y]h'XYf
GhfU» YbVÅi a Y'ni 'ZØfXYfb'i bX'X]Y'J Yfg]W_Yfi b['j cb
FY[Ybk UggYf'ni 'j YfVYggYfb''Gc'ghY\Yb'X]Y'6Ui a gWXY]VYb']b'XYf
HUi bi gghfU» Yž'8Y]XYg\Y]a Yf'GhfU» Y'i bX'; ØffYgghfU» Y'XUVY]'ja
: c_i g''

9]bY'XYf'hfY]VYbXYb'?fÅZhY'\]bhYf'X]YgYa 'Dfc'Y_h']gh'X]Y
6Yn]f_gghUXhfÅh]b'8f''9''YbVYW_ž'X]Y'X]Y'K]W'h][_Y]h'XYf
A U» bU\ a Y'i bhYfghfY]W'h''8i fW'X]Y'9bhg]Y[Y'i b['XYf': 'ÅWXYb
a ØW'hY'X]Y'J Yfk U'hi b['j cf'U''Ya ']b'\cW]j YfX]W'hYhYb'; YV]YhYbž
k c'XYf'FUi a 'ZØf'DZUbnyb'i bX'6Åi a Y'cZi'ghUf_'Y]b[YgWfÅb_h
]ghž'Y]bY'J YfVYggYfi b['XYf'l a k Y'hVYX]b[i b[Yb'YffY]WXYb''8]Y
5bdUggi b[Yb'gc''Yb'b]W'h'bi f'XUni 'VY]hfU[Ybž'XUgg'a Y\ f'K UggYf
j cf'Cfh]j Yfg]W_Yfb'_Ubbž'gcbXYfb'Ui W'XYb'HYa dYfUhi fUbg]Y[']b
ghÅXh]gWXYb'6U''i b[gfÅi a Yb'j Yff]b[Yfb''8]YgY'<]hnY]bgY'b'g]bX
]b'XYb'Gca a Yfa cbUhYb'Y]b'YfbghYg'DfcV'Ya ž'XUg'X]Y
@YVYbgei U']hÅh'XYf'6Yk c\ bYf'VYY]bhfÅW'h][h''

8]Y`6YXYi hi b[`j cb`6Ui a gWXY]VYb

6Ui a gWXY]VYb`g]bX`X]Y`6YfY]WXY`i a`XYb`GhUa a`Y]bYg`6Ui a Ygž
X]Y`cZh`Xi fW`DZUghYf`cXYf`UbXYfY`UfhYb`A UhYf]U`Y]b`VYXYW_h
g]bX`8]YgY`:`ÀWXYb`gd]Y`Yb`Y]bY`YbhgWXY]XYbXY`Fc`Y`Z0f`X]Y
; Ygi bX\Y]h`XYf`DZUbnYbž`]bgVYgcbXYfY`]b`Y]bYa`i fVUbYb
I a Z`X`"J]Y`Y`XYf`VYghY`YbXYb`6Ui a gWXY]VYb`]b`:]YXYbUi`g]bX
YXcW`ni`_Y]bž`gcXUgg`X]Y`6Ai a Y`b]W`h`Ui`gfY]WXYbX`K`UggYf
Ui ZbY`a`Yb`_0bbYb`"@Ui`h`8f`"9`YbVYW`_gc`h`Y`Y]bY`cd]h]a`U`
[YghU`h`Y`6Ui a gWXY]VY`a`]bXYghYbg`&`A`YhYf`VfY]h`i`bX`(`A`YhYf
`Ub[`gY]bž`k`Ug`Y]bY`:`ÀWXY`j`cb`fi`bX`,`E`i`UXfUha`YhYfb`Yf[`]Vh`

8]Y`B`chk`YbX][`_Y]h`Z0f`X]YgY`A`U»`b`U`a`Y`k`]fX`XY`i`h`]W`ž`k`Ybb`a`Ub
VYXYb`_hž`k`]Y`YggYbn]Y`K`UggYf`Z0f`XUg`K`UW`ghi`a`i`bX`X]Y
9b`hk`]W`_i`b[`j`cb`6Ai`a`Yb`]gh`"ϕ`ghUf`_i`fVUb]g]YfhYb`];`YV]YhYbž`k`c
6Y`hcb`i`bX`5gd`U`h`YffgWXYbžZY`h`cZh`X]Y`b`chk`YbX][`Y`b`Uh0f`]WXY
J`Yfgcf[`i`b[`a`]h`K`UggYf`"8]Y`9fk`Y]hYfi`b[`XYf`6Ui`a`gWXY]VYb
_0bbhY`gca`]h`b]W`h`bi`f`XYa`i`[`f0bYb`9fgWXY]bi`b[`gV]`X`XYf`GhUXh
ni`[`i`hY`_ca`a`Ybž`gcbXYfb`Ui`W`XYf`@`Z`ei`U`]h`h`i`bX`XYa
U`[`Ya`Y]bYb`GhUXh`_`]a`U`

8]Y`VYfY]hg`YfZc`[`hY`6YUi`ZhFU[`i`b[`nY][`hž`XUgg`X]Y
J`YfUb`hk`cfh]WXYb`]b`HYa`dY`\`cZGW`0bYVYf[`Yb`hgW`cggYb`g]bXž
X]YgY`i`a`k`Y`hžYi`bX`]WXYb`J`Yf`ĀbXYfi`b[`Yb`nY]hbU`i`a`ni`gY`hnYb`"
6]g`ni`a`ϕ`fYgYbXY`gc`Yb`X]Y`5fVY]hYb`UV[`YgW`cggYb`gY]b`i`bX
XUa`]h`Y]b`k`]W`h][`Yf`6Y]hfU[`ni`f`J`YfVYggYfi`b[`XYg`A`]_fc`_]a`Ug`]b
:]YXYbUi`[`Y`Y]ghY`h`k`YfXYb`"

8Yf`5bgUhnž`9bhg]Y[`Y`i`b[`a`]h`XYa`<]hnYgW`i`hn`i`bX`XYf`GhĀf`_i`b[
XYf`ghĀXh]gWXYb`6Ai`a`Y`ni`_ca`V]b]YfYbž`ghY`h`Y]b`]bbcj`Uh]j`Yg
J`cf[`Y`Yb`XUf`"ϕ`Y]bYf`NY]hž`]b`XYf`XYf`?`]a`Uk`UbXY`ni`bY`a`YbX
gd0fVUfY`5i`gk`]f`_i`b[`Yb`U`hž`]gh`XUg`N]Y`XYf`6Yn]f`gghUXhfĀh]bž
X]Y`F`Yg]]Ybn`XYf`ghĀXh]gWXYb`^`_cgmgY`a`Y`ni`Yf`\`0`Ybž`j`cb
[`f0»`hYf`6YXYi`hi`b[`"

6Ygi W\Yb'G]Y'i bg'Ui Z'a Y]b!VYf^]b"bYh