

C`UZ'@]Yg'ghUfhYh'[fc»Y'GcaaYffY]gY. G]W\Yf\Y]h'ZØf'B]YXYfgUW\gYb']a':c_i g°

C`UZ'@]Yg`ghUfhYh`Ua '%"'> `]`&\$&) 'gY]bY`YfghY`Gca a YffY]gY Xi fW\B]YXYfgUW\gYbž`Zc_i gg]Yfh`Ui Z'6Yj Ò`_Yfi b[ggW\i hn i bX`6]`Xi b["



6fYa Ybž8Yi hgWX`UbX`!`9g`hi h`g]WX`Y]b][Yg`]b`B]YXYfgUWXgYb°
5a `8]YbghU[ž'XYa `\$%"\$+"&\$&) ž'VY[]bbh`B]YXYfgUWXgYbg
A]b]ghYfdfÀg]XYbh`C`UZ'@]Yg`gY]bY`YfghY`Gca a YffY]gY`U`g
FY[]Yfi b[gWXYZ"'8]YgY`HfUX]h]cb`]gh`b]WXh`bi f`Y]b`[YgYhnhYf
HYfa]b`]a `?U`YbXYfž'gcbXYfb`Ui WX`Y]bY`; Y`Y[Yb\Y]hž'a]h
AYbgWXYb`Ui g`j YfgWX]YXYbYb`6YfY]WXYb`ni 'gdfYWXYb`i bX`g]WX
j cf`Cfh`Y]b`6]`X`ni 'a UWXYb"'8]Y`Hci fž`X]Y`i a `, "%) `I \f`ghUfhYhž']gh
Ui Z'XfY]`HU[Y`Ub[Y`Y[h`i bX`V]YhYh`Y]bYb`gdUbbYbXYb`9]bV`]W_`]b
X]Y`H\Ya Ybž`X]Y`X]Y`A YbgWXYb`]b`B]YXYfgUWXgYb`VYKY[Yb"

8]Y'<Ui dhh\Ya Yb'X]YgYf'FY]gY'g]bX'[Ubn'_`Uf'Ui Z'XYb 6Yj Ò`_Yfi b[ggW\i hn'Ui g[Yf]W\hYh"'@]Yg'k]fX'XUVY]'9]bf]W\hi b[Yb j cb'6i bXYgk Y\fž'Dc`]nY]ž': cfgW\i b['i bX'XYa 'HYW\b]gW\Yb <]`Zgk Yf_'VYgi WkYb"'5b'XYb': c`[YhU[Yb'ghY\Yb'ni gÀhn`]Wk
gdUbbYbXY'H\Ya Yb'k]Y'HY`Ya YX]n]bž'6]`Xi b[gdfc Y_hY'i bX
hYWkb]_[YghØhnhYg'K c\bYb'Ui Z'XYf'5[YbXU"'Ni 'XYb'VYgi WkhYb
9]bf]Wkhi b[Yb'[Y\ÒfYb'i bhYf'UbXYfYa 'XUg'?`]b]_i a 'C`XYbVi f[ž
Y]bY'JYfgi WkgghUh]cb'XYf'@UbXk]fhgWkUZhg_Ua a Yf']a '@UbX_fY]g
8]Yd\c`n'i bX'Y]b'JYfY]b']b'CgbUVfØW_ž'XYf'g]Wk'XYf
dÀXU[c[]gWkYb'5fVY]h'a]h'Ni kUbXYfYf_]bXYfb'k]Xa Yh"</pre>

9]b bYi Yg ? Ud]hY`]b B]YXYfgUW gYb

C`UZ'@]Ygž'XYf'Ui g'XYa 'VYgW\Ui `]W\Yb'GUbXY'bU\Y

K]`\Y`a g\Uj Yb'ghUa a hž']gh'ZcfhUb'b]W\h'bi f'A]b]ghYfdfÀg]XYbhž
gcbXYfb'Ui W\'Y]bY'k]W\h][Y'Gh]a a Y']b'XYf'GD8"'BUW\'XYf'K U\`
]a '@UbXhU['Zc`[h'Yf'XYa 'V]g\Yf][Yb'FY[]Yfi b[gW\YZ'GhYd\Ub
K Y]``bUW\ž'XYf'a]h'**'\\\fYb']b'XYb'Fi \YghUbX'[Y\h"'@]Yg'Vf]b[hY
VYfY]hg'Y]bY'VYY]bXfi W_YbXY'@Ui ZVU\b'a]hž'X]Y']\b'j cb'gY]bYa
8]d`ca]b[Yb]Yi f!Ghi X]i a 'V]g'\]b'ni f'9fbYbbi b['ni a

K]fhgW\UZhg!'i bX'I a k Y`ha]b]ghYf'ZØ\fhY"'GY]b'K YfXY[Ub[']b'XYf
GD8'VY[Ubb']a '\\\f'&\\$\$&ž'i bX'gY]hXYa '\Uh'Yf'g]W\'ghYh]['bUW\\
cVYb'[YUfVY]hYh"

#W. k.]``XYb'A YbgW\Yb']b'B]YXYfgUW\gYb'Y]b'; YZØ\``j cb
G]W\Yf\Y]h'i bX'GhUV]`]h\Ah'[YVYb ž'gc'@]Ygž'XYf'Ui W\']a
5i Zg]W\hgfUh'j cb'J c`_gk U[Yb'g]hnYb'k]fX"'9f'Yf_Ybbh'X]Y
J YfUbhk cfhi b['gY]bYg'bYi Yb'5a hYg'Ub'i bX'VYhcbhž'k]Y'k]W\h][
Yg'gY]ž'VfY]h'Ub[Y`Y[hY'[YgY``gW\UZh`]W\Y'A Y\f\Y]hYb'ni 'Z]bXYb
i bX'X]Y'; Ya Y]bgW\UZh'ni gUa a Ybni \U`hYb"'8]YgY'D\]`cgcd\]Y
k]fX'X]Y'6Ug]g'gY]bYf'5a hgZØ\fi b['df\A[Yb/Y]b'?i fgk YW\gY``]b
XYf'Dc`]h]_gY]'YXcW\b]W\h'ni 'Yfk UfhYb"'J]Y`a Y\f'k]``Yf'Y]bYb
bYi Yb'FY[]Yfi b[ggh]`'YhUV`]YfYbž'XYf'Ui W\'a]h'gY]bYf
fYXY[Yk UbXhYb'i bX'ghYhg'[i h'[Y`Ui bhYb'5fhY]b\Yf[Y\h' ']a
; Y[YbgUhn'ni 'gY]bYa 'J cf[\Ab[Yfž'XYf'Y\Yf'gdf\OXY
k U\f[Ybca a Yb'k i fXY"

<ia cfj c```i bX`\UbX`i b[gZÀ\][

9]b 'nYbhfU`Yf'Di b_h']b '@]Yg '5bgUhn']gh'X]Y' < UbX`i b[gZÀ\][_Y]h'XYf FY[]Yfi b["' \Rightarrow 'Y]bYf'NY]hž']b 'XYf'i]Y`Y' < YfUi gZcfXYfi b[Yb'Ui Z'X]Y

8]Y`GdUbbi b[`i bX`JcfZfYi XY`Ui Z`X]YgYg`bYi Y`?Ud]hY``]b

B]YXYfgUW\gYb`g]bX`gdØfVUf"`J]Y`Y`\cZZYbž`XUgg`X]Y`Gca a YffY]gY
b]W\h`bi f`I GDg`j cb`G]W\Yf\Y]hg!`i bX`GhUV]`]h\hgZfU[Yb`VY`Yi W\hYhz
gcbXYfb`Ui W\`XYb`A YbgW\Yb`]b`B]YXYfgUW\gYb`X]Y`A \(\rightarrow\)[`]W_Y]h
[]Vhz`]\fY`Gh]a a Y`VY]`k]W\h][Yb`H\Ya Yb`ni `Yf\YVYb"`A Ub`XUfZ
[YgdUbbh`gY]bz`k]Y`g]W\`X]Y`YfghYb`9f[YVb]ggY`X]YgYf`Hci f`]a
dc`]h]gW\Yb`5``hU[`b]YXYfgW\`U[Yb"

: Øf`k Y]hYfY`±bZcfa Uh]cbYb`i bX`8YhU]`VYf]W\hY`ØVYf`X]Y`FY]gY`j cb A]b]ghYfdfÀg]XYbh`C`UZ'@]Yg`VYgi W\Yb`G]Y`X]Y`6Yf]W\hYfghUhhi b[Ui Z'b!hj "XYž'bX!U_hi Y``"XY`i bX`a n"XY"

8 YhU]`g	
Cfh	6fYa Ybž'8Yi hgWX`UbX
EiY``Yb	• k k k "b!hj "XY
	k k k "bX!U_hi Y``"XY
	• k k k "a n"XY

6 Y gi W Y b 'G | Y 'i b g 'U i Z 'X | Y ! b U W f | W h Y b "W c a