

6UXYb!K ØfhhYa VYf['gWX `À[h'5`Ufa .; YZÀ\f`]WXY''5hhYbhÀhYf!: Ubg'']a 'BYhn'

6UXYb!K ØfhhYa VYf['Yf_Ybbh'X]Y; YZU\fYb'XYf / ei ch/5hhYbhÀhYf!: UbgnYbY/ ei ch/'i bX'ghUfhYh'A U» bU\a Yb ni f'6Y_Àa dZ b['Yl hfYa]gh]gW\Yb'; YXUb_Yb[i hg"



7\f]ghWiffWigYigYigYY\UbX'!8Yf@UbXYgjYfZUggib[ggWihn 6UXYb!K ØfhhYa VYf['k Ufbh'j cf'XYf'gc[YbUbbhYb' 5hhYbhÀhYf! : UbgnYbY ž'X]Y'U`g'Y]bY'Yfbgh\UZhY'6YXfc\ib['Ub[YgY\Yb'k]fX" 8]YgY'GnYbYž'X]Y']bgVYgcbXYfY'Uig'f b[Ybž'hY]`k Y]gY ghfUZ ba ØbX][Yb'A ÀbbYfb'VYghY\hž'\Uh'g]W\']b fYW\hgYl hfYa]gh]gW\Yb'7\Uh[fi ddYb'ibX': cfYb'cf[Ub]g]Yfhž'ia 5hhYbhÀhYf'ibX'XYfYb'; Yk U`hhUhYb'ni'VYk ibXYfb"'6UXYb! K ØfhhYa VYf[g'\deltabYba]b]ghYf'H\ca Ug'GhfcV`'ff781 \L\YVh'\Yfj cfž XUgg'Yg'bchk YbX][']ghž'a Y\f'ØVYf'X]Y'Ghfi_hifYb'X]YgYf [YZÀ\f`]W\Yb'6Yk Y[ib['ni'YfZU\fYb"'8Yf': c_i g'Ui Z'X]Y 5hhYbhÀhYf!: UbgnYbY'k ifXY'Ui Z'X]Y'5[YbXU'XYf \deltabYba]b]ghYf_cbZYfYbn']b'6fYa Yf\Uj Yb'[YgYhhhž'X]Y'UV 8cbbYfghU['X]g_i h]Yfhk]fX"'8Yf'JcfgW\`U['ni f'H\Ya Uh]g]Yfi b[

9]bY'U_hi Y``Y'9bhk]W_`i b[']ghž'XUgg'X]Y'A]h[`]YXYf'XYf'GnYbY
a YbgWXYbj YfUWXhYbXY'5bg]WXhYb'Ài »Yfb'i bX'cZh'gY\f''A b[Yž
[Yk U'hUZZ]bY'DYfgcbYb'g]bX"'8 Ug'@UbXYgUa h'ZØf
J YfZUggi b[ggWXi hn'VYnY]WXbYh'X]Yg'U`g'U`Ufa]YfYbXY'BYi \Y]h']b
XYf'fYWXhgYI hfYa Yb'GnYbY"'9]b'6Y]gd]Y`'ZØf'X]YgY'DfcV`Ya Uh]_']gh
Y]b'%(!À\f][Yf'Ui g'6UXYb!K ØfhhYa VYf[ž'XYf']b'Y]bYf'7\Uh[fi ddY
HÒhi b[gZUbhUg]Yb'[Y[Yb'*\DX]bbYb'i bX'\Rightarrow XYb'gck]Y'[Y[Yb'Y]bY
@Y\fYf]b'Ài »YfhYž'k Ug'Y]b'9fa]hh`i b[gj YfZU\fYb'k Y[Yb'GhÒfi b[
XYg'ÒZZYbh`]WXYb': f]YXYbg'Xi fWX'5bXfc\i b['j cb'GhfUZhUhYb'bUWX
g]WX'nc["

FUX]_U`]g]Yfib[ibX BUW\U\aib[gYZZY_hY

8]Y: 5hhYbhÀhYf!: UbgnYbY 'k]fX:U`g`HY]``U_hi Y``Yf

FUX]_U`]g]Yfi b[gdfcnYggY:VYhfUW.hYhi bX:]ghni XYa 'Ei Y``Y:ZØf

BUW.U\a i b[gYZZY_hY"8]Y'K i fnY`b'X]YgYf'6Yk Y[i b['fY]W.Yb

ni fØW_'ni 'XYb'fYW.hgYl hfYa]gh]gW.'a ch]j]YfhYb'; Yk U`hhUhYb'k]Y

XYa '5hhYbhUh'j cb'7\f]ghW\i fW.'&\$%- ž'VY]'XYa') %'A YbgW.Yb']\f
@YVYb'j Yf`cfYb"'8Yf'HÀhYfž'6fYbhcb'HUffUbhž'[]`h'U`g'JcfV]`X'ZØf

X]YgY: UbgnYbYž'XU'Yf']b'XYb'gcn]U`Yb'AYX]Yb'Y]bY'k Y]hfY]W.YbXY

XYc`c[]Y'j cb'<Ugg'i bX'; Yk U`h'dfcdU[]YfhYž'X]Y'j]Y'Y'BUW.U\a Yf
]bgd]f]Yfh'\Uh"'6Y]gd]Y'Y'XUZØf'g]bX'X]Y'5bgW.`A[Y'Xi fW.'GhYd\Ub
6U``]Yh']b'<U``Y'fGUU`YŁgck]Y'j cb'DUmhcb'; YbXfcb']b'6i ZZU`cž
I G5"

9]b 'nYbhfu`Yf'5gdY_h'XYf' \Rightarrow Yc`c[]Y'X]YgYf'GnYbY']gh'X]Y' G-9; 9!
7i `hi fY ž'Y]bY'fYWX hgYl hfYa]gh]gWXY'Cb`]bY!Gi V_i `hi fž'X]Y'g]WX
XUfUi Z'_cbnYbhf]Yfhž'[Yk U`hgUa Y'5_h]cbYb'[Y[Yb'XUg
XYa c_fUh]gWXY'GmghYa 'ni 'dfcdU[]YfYb"'8]YgY'Gi V_i `hi f'\Uh
Y]bYb'?i `hghUhi g'i bhYf'' b[Yb'DYfgcbYb'YffY]WX hž'X]Y']b
Ubcbma Yb'Cb`]bY!; fi ddYb'U[]YfYb"' \Rightarrow gVYgcbXYfY'Xi fWX
D`UhhZcfa Yb'k]Y'HY`Y[fUa 'k]fX'XUg'HY]`Yb'j cb
DfcdU[UbXUa UhYf]U`'i bX'5hhYbhUhgj]XYcg'j cfUb[Yhf]YVYbž
k cXi fWX'Y]b'nmb]gWXYf'l a [Ub[ghcb'[YZÒfXYfh'k]fX"

8]YFc``YXYg'=bhYfbYhg

8]YJYfk]W_i b[i]bifYWkhgYI hfYa]gh]gWkYib\UihYi]ghicZhigi Vh]iž k UgiX]Yi9f_Ybbi b[igc\WkyfDfcdU[UbXUiYfgWkkYfh" 91 hfYa]gh]gWkYi5_hYi fYibi hnYbiYa ch]cbUiYi5bgdfUWkYiØVYf J]XYcgii bXi6]iXYfžii a isi [YbXi]WkYini i[Yk]bbYb"8]YgY GhfUhY[]Ybig]bXin]Yi[fi ddYbgdYn]Z]gWkžik cVY]iVYk i ggh i bhYfgWk]YXi]WkYiH\Ya YbiZØfij YfgWk]YXYbYi5ihYfg!i bX; YgWkiYWkhYf[fi ddYbi[YkÀ\ihkYfXYbžii a iX]YiK]f_gUa_Y]hini a UI]a]YfYb"GciWkYi8mbUa]_Ybia UWkYbiY]bYii a ZUggYbXY 5bUimgYii bXiXUgiJ YfghÀbXb]giXYfi 5hhYbhAhYf!: UbgnYbY i bUVX]b[VUfžii a iXYfFUX]_Ui]g]Yfi b[iYZZY_h]jiYbh[Y[YbhfYhYbini_ObbYb"

8 Y hU]`g	
J cfZU``	HYffcf]ga i g
Cfh	7\f]ghWXifWXžBYigYY`UbX
EiY``Yb	• k k k "gk f"XY
	• kkk"jYfZUggib[ggW\ihn!Vk"XY
	• k k k "VdV"XY

6 Y gi W Y b 'G] Y 'i b g 'U i Z 'b ! U ["b Y h