

I f`Ui V'&\$&). K @5B!Ÿb[ghY'XYf 8 Yi hgWXYb GcgWXØhnYbG]Yg]WX°

FibX', %ž%i 'XYf'8Yi hgWXYb'k ØbgWXYb'g]WX'K @5B']a If`UiV"'G]WXYf\Y]hgVYXYb_Yb'ibX'[YbYfY``Y'HfYbXg'VY]a FY]gYjYf\U`hYb'UbU`mg]Yfh"



8 Yi hgW `Ub X '!: Ugh', & DfcnYbh'XYf'8 Yi hgWX Yb ``Y[Yb']a 'I f`Ui V K Yfh'Ui Z'Y]bYb'ghUV]`Yb'K @5 B!Ni [Ub["'@Ui h'Y]bYf'I a ZfU[Y'j cb' hU[Yg_UfhY"]c'g]bX'Yg']bgVYgcbXYfY'' b[Y'9fk UWXgYbYž'X]Y _Ui a 'Ub'Y]bYf'I bhYf_i bZh'c\bY'K @5 B']bhYfYgg]Yfh'g]bX''K $\lambda fYbX$ VY]'XYb'%, !'V]g'&-! λf [[Yb'`YX][`]WX'\$z*'DfcnYbh'Y]bY'gc`WXY K U\`hfYZZYbz*'g]bX'Yg'VY]'XYb'' \$!'V]g''-! λf [[Yb']a a Yf\]b'%z-DfcnYbh''=a ' λf [a Ybhz*'VY]'XYb'(\$!'V]g'(-! λf [Ybz*'ghY][h X]YgY'NU\`'Ui Z'-z*'DfcnYbh''

 $\label{localize} I \ b \ [\ YUWA \ hYh'XYf'\ c\ Yb'BUWA \ ZfU \ [\ Y'bUWA'K \ @5B'nY] \ [\ Yb'g]WA'X]Y$

8 Yi hgWX Yb 'Ui WX 'VYgcf[h'ØVYf'X]Y 'G]WX Yf\Y]hgf]g]_YbžX]Y 'a]h ÒZZYbh`]WX Yb 'B Yhnk Yf_Yb 'Y]b\Yf[Y\Yb"' &ž('DfcnYbh'XYf 6YZfU[hYb '[YVYb 'Ubž'6YXYb_Yb 'ni '\UVYbž'k cVY]']bgVYgcbXYfY : fUi Yb 'fI) 'DfcnYbhŁ'ghÀf_Yf'ØVYf'G]WX Yf\Y]hgf]g]_Yb 'VYgcf[h'g]bX U`g'A ÀbbYf'fI \$ 'DfcnYbhŁ" '8]Y '[fÒ» hY 'Gcf[Y 'Ui Z'FY]gYb 'V`Y]Vh YXcWX 'XYf'J Yf`i gh'cXYf'8]YVghU\`'j cb'; YfÀhYbž'k Ug'((ž%'DfcnYbh XYf'8 Yi hgWX Yb 'U`g'[fÒ» hY '5b[gh'Ya dZ]bXYb"'<]Yf'g]bX'A ÀbbYf f(+ž- 'DfcnYbhŁ'ØVYfdfcdcfh]cbU``VYhfcZZYb"

$G]WXYfY]hgVYXYb_Yb'ibX'F]g]_Yb$

Ni gàhn`]W\ni 'XYb'Gcf[Yb'i a '; YfàhYj Yf`i gh'g]bX'Ui W\Z]bUbn]Y``YF]g]_Yb'Y]bYb'\c\Yb'GhY``Ybk Yfh'' +ž-'DfcnYbh'ZØfW\hYb'Y]bYb a Ò[`]W\Yb'?fYX]h_UfhYb!<UW_ž'k cVY]'X]Y'K YfhY'ZØf'A ÀbbYf'fl, ž(DfcnYbhŁ'i bX': fUi Yb'fl +ž''DfcnYbhŁ'bU\Yni '[`Y]W\g]bX"'8]Y5b[gh'j cf'=\XYbh]h\hgX]YVghU\`']gh'a]h'' %ž('DfcnYbh'X]YjYfh\\hai Z][ghY'Gcf[Y'i bX'VYhf]ZZh'j cf'U``Ya': fUi Yb'fl' ž&DfcnYbhŁ"J]fYbVYZU``'k]fX'\]b[Y[Yb'bi f'j cb'%* ž('DfcnYbh'XYf6YZfU[hYb'U`g'fY`Yj UbhY'Gcf[Y'k U\f[Ybca a Yb"

8 Ug 6i bXYgUa h ZØf G]W Yf\Y]h]b XYf \$ Zcfa Uh]cbghY W b]_ fb G \$ V]YhYhi a ZUggYbXY 9a dZY\i b[Yb ZØf X]Y Bi hni b[j cb K @5 B ž]bgVYgcbXYfY]b OZZYbh]W Yb BYhnk Yf_Yb " 8 UVY] i bhYfghfY]W h X]Y 6 Y\OfXY X]Y F]g]_Ybž X]Y i b[Yg]W YfhY F ci hYf a]h g]W Vf]b[Yb" 5 b[fY]ZYf _ObbYb Xi fW a Ub[Y`bXY G]W Yf\Y]h Ui Z'dYfgOb`]W Y 8 UhYb ni [fY]ZYbž k Ug ni Y]bYa Yf\YV`]W Yb Z]bUbn]Y ``Yb GW UXYb ZØ\fYb _Ubb" 8 U\Yf k]fX [YfUhYbž X]Y GhUbXUfXdUggk OfhYf ni AbXYfb i bX g]W Yfni ghY ``Ybž XUgg X]Y :]fa k UfY fY[Y`a A`x][U_hi U`]g]Yfh k]fX" 5 i W XUg K @5 B!DUggk cfh gc ``hY Ui g a]bXYghYbg &\$ `NY]W Yb VYghY\Yb i bX XYf GhUbXUfX!BYhnk Yf_bUa Y gc ``hY [Yb" YAbXYfh k YfXYbži a G]W Yf\Y]hq]bZcfa Uh]cbYb ni j YfVYf[Yb"

DfU_h]gWX Y `H]ddg `ZØf `g]WX YfYg `Gi fZYb `]a Lf`Ui V

8 Ugʻ6G=Ya dZJY\`hʻni XYa žʻb]W\hʻVYbÒh][hYʻFci hYf!: i b_h]cbYbʻni XYU_h]j [YfYbʻi bXʻVY]ʻXYfʻBi hni b[ʻÒZZYbh`]W\YfʻK @5B!BYhnY

j cfg]Wkh]['ni 'gY]b"'Bi hnYfb'k]fX'[YfUhYbž']\fY'K@5B!:ib_h]cb'bif XUbb'ni 'U_h]j]YfYbž'kYbb'Yg'bchkYbX][']ghž'ibX'jYfhfUi`]WkY 8UhYb'bUWk'AÒ[`]Wk_Y]h'ØVYf'Y]b'JDB'UVnifiZYb"

A]h'X]YgYb'Jcfg]Wkhga U» bU\a Yb']a '<]bhYf_cdZž_ObbYb'I f'Ui VYf
]\f'6YXØfZb]g'bUWk'X][]hU'Yf'JYfV]bXi b['gh]``Ybž'c\bY'XUVY]']\fY
G]WkYf\Y]h'Ui Zg'Gd]Y``ni 'gYhnYb"'8]Y'6U'UbWY'nk]gWkYb'9f\c`i b[
i bX'JYfbYhni b['V'Y]Vh'YbhgWkY]XYbXž'VYgcbXYfg']b'Y]bYf'NY]hž']b
XYf'XUg' \(\partial hYfbYh'Y\)b'ZYghYf'6YghUbXhY]``XYg'FY]gYbg'[Yk cfXYb']gh''
I a 'X]Y'G]WkYf\Y]h'k Y]hYf'ni 'Yf\O\Ybž']gh'Yg'Ya dZY\`Ybgk Yfhž'g]Wk
Ub'X]Y'FUhgWk`À[Y'XYg'6G=ni '\U`hYbž'i a ']b'XYf'Cb`]bY!K Y`h'[i h
[YgWk Øhnh'ni 'gY]b"

8 YhU]`g	
Cfh	8 Yi hgWX`Ub X
EiY``Yb	k k k "hU[Y g_UfhY "]c
	k k k "Vg]"Vi bX"XY

6Ygi WXYb G]Y i bg Ui Z Y]bY!fY]gY "XY