: fYg\ DfcXi WY =b]h]Uh]j Y @Ui bWXYg]b 8UmhcbU hc 7ca VUh : ccX =bgYW f]hm

5 bYk ZccXidUbhfmicdYbgiUhi6Yh\ibY!7cc_a Ubilb]j Yfg]hm hciU]Xi8UmhcbUi6YUWXighi XYbhgžik]h\iZfYg\idfcXi W X]ghf]Vih]cbighUfh]b[igccb"



(&%`G"`? YYW\`Gh"ž'8 Umhc b U`6YUW\ ž': @ž'I G5`!`=b`U`g][b]Z]WJbh a cj Y`hc`Wca VUh'ZccX`]bgYW'f]hmž'6Yh\i bY!7cc_a Ub`I b]j Yfg]hm \Ug`cdYbYX`U`ZccX`dUbhfm`cb`]hg`8 Umhc bU`6YUW\`WJa di gž'gYfj]b[Ug`U`j]hU``fYgci fWY`Zcf`ghi XYbhg`ZUW]b[`[fcWYfm`W\U``Yb[Yg"`G]bWY]hg``Ui bW\`cb`:YVfi Ufm'' ž'&\$&) ž'h\Y`dUbhfm`U]a g`hc`U``Yj]UhY`h\Y ghfi [[`Y`a Ubm`ghi XYbhg`YbWci bhYf`k \Yb`hfm]b[`hc`UZZcfX`VUg]W bi hf]h]cbU``bYYXg"`H\]g`bYk `]b]h]Uh]j Yž'U`cb[`k]h\`h\Y Wc``UVcfUh]cb`VYhk YYb`:YYX]b[`:`cf]XU`UbX`GYWcbX`<Ufj Ygh::ccX 6Ub_`cZ'7YbhfU``:`cf]XUž'gYY_g`hc`]a dfcj Y`UWWYgg`hc`ZfYg\ dfcXi WY`]b`h\Y`Wca a i b]hm"

Cb'i `m'%*ž'W]hm'Wca a]gg]cbYfg'Uddfcj YX'U'di V`]Wi gY'dYfa]h'Zcf U'a cV]`Y'ZccX'X]ghf]Vi h]cb'dfc[fUa "': fYg\'Zfi]hg'UbX'j Y[YhUV`Yg

9ei U``m']a dcfhUbh']g'h\Y': fYg\ 5WWgg'6i W_g'fl 56E'dfc[fUa ž $k \in W^{2}$ a UhWX Yg GB 5 D d Ufh]W]d Ub hg gd Yb X]b [\tilde{z} U \tilde{z} U \tilde{b} [Ub YI hfU] * %\$ ZcfYjYfm* %\$ gdYbhcb: `cf]XU![fckbZfi]hg*UbX*jY[YhUV`Yg"

ZUa]`]Yg"

H Y : cf X U = Y dU f ha Y b h c Z < Y U h '] g g h Y d d b ['i d Y Z c f hg h cYbgi fY`bi hf]h]ci g`ZccX`]g`UWWYgg]V`Y`UWfcgg`h\Y`Gi bg\]bY`GhUhY" JUf]cig']b]h]Uh]jYg'ZcW/g'cb'Yb\UbW]b['UWW/gg'hc'\YU`h\m'ZccXg h\fci[\``cWU``ZUfaYfg`aUf_Yhg`UbX`WcfbYf`ghcfYg"`CbY`cZ`h\Y `cb[!hYfa `[cU`g`]g`hc`fYXi WY`cVYg]hm`fUhYg`k \]`Y`dfca ch]b[Wcaaib]hm`\YU`h\"`BYk 'dfc 'YWhg'U]a 'hc 'gi ddcfh'i bXYfgYfj YX UfYUg'Vm'YghUV`]g\]b['ZUfa Yfg a Uf_Yhg'h\Uh'UWWYdh'GB5D VYbYZ]hg'UbX'[fUbhg'Zfca K =7žX]fYWh`m'Ugg]gh]b['`ck!]bWcaY

K]XYf < YU`h\ =b]h]Uh]j Yq

: cf'UbmcbY'bYYX]b[']a a YX]UhY'\Y`dž'h\Y'di V`]W]g'YbWci fU[YX'hc WcbhUWh'UjU]`UV`Y'\ch`]bYg'Uh'(\$+!-+,!)'\$*'cf'(\$+!&-)!%\$**" 5XX]h]cbU``mž': YYX]b[': `cf]XU'dfcj]XYg'U'i gYZi ``fYqci fWY'Zcf `cWUh]b[ZccX`gcifWYg`Vm`UXXfYggž`W]hmž`cf`N=D`WcXYž`k \]W.]bWiXYgZccXVUb gUbXZUfaYfg a Uf Yhgh\fci [\ci hh\YghUhY"

ZY`h']b'Wca VUh]b['ZccX']bgYWf]hm"

:YYX]b[':`cf]XUžU'bYhkcf_'WcbbYWh]b['ghUhYk]XY'ZccX'VUb_gž d`Umg`U`Wfi WjU``fc`Y`]b`hUW_`]b[`\i b[Yf`]b`h\Y`UfYU"`H\Y cf[Ub]nUh]cb'giddcfhq'cjYf'&ž(\$\$``cWU``WXUf]hUV`Y'U[YbW]Ygž dfcj]X]b['Ub'YI hYbg]jY'qmqhYa 'cZ'Ugg]qhUbWY'hc'h\cgY']b'bYYX" GYWcbX'<UfjYgh': ccX'6Ub_ž'Ubch\Yf'_Ym'd`UmYfž'cdYfUhYg'UWfcgg gYjYbWcibh]Ygž\Uj]b['X]ghf]VihYXYbci[\'ZccX'hc'WfYUhY'+* a]``]cb'a YU`g'`Ugh'mYUf'U`cbY"'H\Y]f']a dUWh'fYa U]bg'dfcZci bX`m

7ca a i b]hmGiddcfhUbXFYgcifWg

k]``VY'X]ghf]Vi hYX'Uh'hk c'j]hU`'Jc`i g]U'7ci bhm'<YU`h\'8YdUfha Ybh `cWUh]cbg. (&%`G"`?YYW\ `Gh"`UbX`%, () `<c`gcbVUW_`8f]j Y"`K \]`Y $gdYW]Z]WXUhYgUbX'h]a YgZcf'h\Y'X]ghf]Vi h]cbg'\Uj Y'mYh'hc'VY$ UbbcibWYXž`cWU`fYg]XYbhg'WUb``cc_'ZcfkUfX`hc`h\]g`giddcfh U]a YX`Uh`fYXi W]b[`ZccX`Wcghg`UbX`]a dfcj]b[`cj YfU``\YU`h\"

5 WcbjYb]Ybh'UddfcUW\žgiW\]b]h]Uh]jYg'bch'cb`m'UXXfYgg bihf]h]cb'Vih'U`gc'ZcghYf'YWcbca]W[fckh\'UbX'/cV'WfYUh]cb'k]h\]b h\Y'Wcaaib]hm"'=hg'U'k]b!k]b'g]hiUh]cb'U```UfcibX"

5VWW gg hc [ccXž bi hf]h]ci g ZccX g ci `Xb h VY U ``i l i fm/`]h g Ub YggYbh]U``dUfh cZ ZcghYf]b[`\YU`h\m Wca a i b]h]Yg "K]h\ bYk]b]h]Uh]j Yg gdfci h]b[`i d UbX U XYX]WUhYX ZcW g cb fYXi W]b[ZccX]bgYW f]hmž J c`i g]U 7 ci bhm]g hU_]b[`a YUb]b[Zi ``ghYdg hc Ybgi fY h\Uh]hg fYg]XYbhg \Uj Y k \Uh h\Ym bYYX hc ``]j Y \YU`h\mž Zi `Z]``]b[`]j Yg"

8 Y hU]`g	
Cfh	(&%`G"`?YYW\`Gh"ž'8UmhcbU`6YUW\ž':@žilG5
EiY``Yb	• k k k "bYk g!/ci fbU`cb`]bY"Wca
	• k k k "ZYYX]b[Z`cf]XU"cf[
	• k k k "Z`cf]XU\YU`h\"[cj

6Ygi WXYb'G]Y'i bg'Ui Z.'a Y]b!k]Yb"bYh