

GUb::fUbW]gWc:;]Ubhg:UWei]fY:FUZUY``8Yj Yfg:Zfca '6cghcb FYX:Gcl:]b:U:\]ghcf]WhfUXYž:fYg\Ud]b[:hYUa::XmbUa:]Wg:Zcf &\$&) 'gYUgcb"



8 Y j Y f g ž' k \ c ']g 'W' f f Y b h`m' &, 'm Y U f g 'c `X ž']g 'Y b 'c m]b ['Ub ']a d f Y g g]j Y g Y U g c b 'k]h\ 'U 'V U h h]b ['`]b Y 'c Z' "& + & #' (\$ %#') \$ ('Ub X '\ Ug 'U` f Y U X m g a UW_YX '%) '\ ca Y 'f i b g ']b '1 g h' + ' ' [Ua Y g " '7 i f f Y b h`m']b 'h\ Y

gYWcbXimYUficZi\]gihYb!mYUfiWcbhfUWhik cfh\iii' %' ") ia]``]cbž 8 Yj Yfg iZ]bUbW]U`icV`][Uh]cbgik]``'VYiZi ``miUggi a YXiVmih\Yi;]Ubhgž U``ck]b[ih\YiFYXiGcl ihcig\YXiUig][b]Z]WUbhigU`Ufmik \]`YiWfYUh]b[gdUWYiZcfih\Y]fimci b[YfihU`Ybh"iH\YihfUXYik UgiZUW]`]hUhYXži]bidUfhž Xi Yihci8 Yj Yfgibchi\Uj]b[iUibc!hfUXYiWUi gYžia U_]b[ih\Y hfUbg]h]cbiga cch\iXYgd]hYidf]cfihYbg]cbgifY[UfX]b[i\]giXYZYbg]j Y Ugg][ba Ybhgi]bi6cghcb"

H\Y;]Ubhg GhfUhY[mAcj]b[:cfkUfX

K]h\ 18 Yj Yfg bck 'cb'VcUfXž'h\ Y';]Ub hg 'ZUWY 'U' WY b hf U` 'ei Ygh]cb fY [UfX]b ['\]g'dcg]h]cb 'cb'h\ Y' ZJY`X"'6i ghYf DcgYmž'h\ Y';]Ub hg DfYg]XYbh'c Z'6 UgY VU``'C dYfUh]cbgž'\][\`][\hY X'h\ Y'bYYX'Zcf'U Wc``UVcfUh]j Y'UddfcUW\ ']b 'XYhYfa]b]b[18 Yj Yfg 'fc`Yž'ghfYgg]b['h\ Y]a dcfhUb WY'c Z'Wca a i b]WUh]cb'VYhk YYb'a UbU[Ya Ybh'Ub X'd`UmYf" H\ Y '`YUXYfg\]d 'hYUa 'd`Ubg'U'h\ cfci [\'Yj U'i Uh]cb'dfcWYgg]bj c`j]b['; YbYfU``A UbU[YfNUW_'A]bUg]Ub'Ub X'A UbU[Yf'6cV A Y'j]b'hc'UggYgg'k \Uh'Z]hg'VYgh'Zcf'Vch\'h\ Y'd`UmYf'Ub X'h\ YhYUa g'ghfUhY[]W[cU`g"'H\ Y'Wcbj YfgUh]cbg'gi ffci bX]b['h\]g XYW]g]cb'UfY'Yl dYWhYX'hc'VY'WcgY`m'a cb]hcfYX'Vm'h\ Y'VUgYVU`` Wca a i b]hmž'Ug'h\ Ym'Wci `X'g\ UdY'h\ Y'Zi hi fY'Ua V]h]cbg'c Z'h\ YZfUbW\]gY"

8 Yj Yfg 'XmbUa]WWUdUV]`]h]Yg'Ug'U'dck YfZi ``\]hhYf'UbX'\]g

XYZYbg]j Y'g_]``g'Vf]b['U'bYk 'X]a Ybg]cb'hc'Ub'cZZYbgY']b'bYYX'cZ'U

Vccgh" K]h\'h\Y';]Ubhg'W'ffYbh`m'ghUbX]b[']b'WcbhYbh]cb']b'h\Y

B Uh]cbU``@YU[i Y'K Yghz'h\Y'UXX]h]cb'cZ'U'd`UmYf'cZ'8 Yj Yfg 'WU`]VYf

]g'YI dYWhYX'hc'Yb\UbW'h\Y]f'gWcf]b['UV]`]hm''H\Y'hYUa '\Ug'ZUW'X

W\U``Yb[Ygz'fUb_]b['%) h\']b'fi bg'gWcfYX'UbX'&' fX']b'C DGz'UbX

8 Yj Yfg'Wci `X'dchYbh]U``m'Z]``'U'_Ym'fc`Y'Ug'U'XYg][bUhYX'\]hhYf'cf

hfUbg]h]cb'hc'Z]fgh'VUgY''H\]g'hfUXY'bch'cb`m'fYdfYgYbhg'Ub

]bj Ygha Ybh']b']a a YX]UhY'dYfZcfa UbWY'Vi h'U`gc'gma Vc`]nYg'U

Wca a]ha Ybh'hc'`cb[!hYfa 'gi WWYgg''

$H \setminus Y = a \ dUWh \ cb \ h \setminus Y @YU[i \ Y]$

 $\label{eq:continuous} $$ Cj YfU^*\check{z}'h\Y'hfUXY'a Uf_g'U'g][b]Z]WUbh'a ca Ybh']b'bch'' gh';]Ubhg \ \ghcfm'Vi h']b'h\Y'`YU[iY'Uh'`Uf[Y''FUZUY`'8YjYfg']g'bch'' gh$

 $\label{thmatical} $$ \b h \ Yf'd \ Wf' \ Yf' \$

K]```\Y`VY`h\Y`bYk `ZUWY`cZ'h\Y`ZfUbW\]gY3`K]h\`h\Y`hU`Ybh

Ua UggYX`h\fci [\`h\]g`hfUXYž`]h`gYYa g`h\Y`;]Ubhg`UfY`VUb_]b[`cb
]h"`H\Y`hYUa `]g`gYh`hc`ZUWY`h\Y`FYX`GcI `]b`U`h\fYY![Ua Y
]bhYf`YU[i Y`gYf]Yg`ghUfh]b[`:f]XUmž`U`a UhW\i d`h\Uh`dfca]gYg`hc

VY`Y`YWhf]Wk]h\`8Yj Yfg`hU_]b[`h\Y`Z]Y`X`Zcf`\]g`bYk `hYUa "`H]a Y
k]```hY```\ck `h\]g`d]j chU``UWei]g]h]cb`k]```fYg\UdY`h\Y`;]Ubhg`UbX
]a dUWh`h\Y]f`dYfZcfa UbWY`]b`h\Y`i dWca]b[`gYUgcbg"

: cf'Zi fh\Yf'XYhU]`gž'W\YW_'ci h'h\Y'fYdcfhg'Zfca 'A chcfWmWY Gdcfhgž'76G'Gdcfhgž'UbX'Gdcfh]b['BYk g"

8 YhU]`g	
Cfh	GUb: fUbW]gWcžib]hYXGhUhYg
EiY``Yb	a chcfWmWYgdcfhg"bYh
	• kkk"WWggdcfhg"Wca
	k k k "gdcfh]b[bYk g"Wca

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