

6f]`cb!H\Ø`Yb. 'Dc`]nY]'Yfa]hhY`h'bUW\ GW\ØggYb'Ui Z'' +!>À\f][Y

BUWX GWX ØggYb 'Ui Z'Y]bY : fUi ']b '6f]`cb!H\Ø`Yb 'Yfa]hhY`h'Y]bY A cfX_ca a]gg]cb" 8Yf'HÀhYfž'Y]b '9l!6i bXYgdc`]n]ghž'k i fXY ZYgh[Ybca a Yb"

JYfOZZYbh`]WAh`A]hhkcWAž'\$("\$-"&\$&(`\$).&-

±0.6f]`cb!H\Ø`Yb'YfY][bYhYb'g]W\'Ua'8]YbghU['gW\kYfY'JcfZÀ``YžX]Y'X]Y'Òfh`]W\Yb'6Y\ÒfXYb']b'5`Ufa VYfY]hgW\UZh'j YfgYhnhYb''6Y]X]YgYa 'JcfZU```kifXY'Y]bY''+!'À\f][Y':fUi'XUg'N]Y`'jcbGW\ØggYbž'X]Y'jcb']\fYa'',!'À\f][Yb'@YVYbgdUfhbYf'UV[Y[YVYbkifXYb''8]Y'Dc`]nY]'ibX'GhUUhgUbkU`hgW\UZh'Yfa]hhY`b'bib']bF]W\hib['Y]bYg'jYfgiW\hYb'HÒhib[gXY`]_hgž'kcVY]'X]YAcfX_caa]gg]cb'XYf'Dc`]nY]'8cfhaibX'X]Y'IbhYfgiW\ib[Yb\ØVYfbcaaYb`\Uh"

5`Ufa]Yfh'Xi fW\'X]Y'GW\ØggY'_cbbhY'XUg'CdZYf'fYW\hnY]h]['Z]Y\Yb i bX'Yf\]Y`h'gW\bY``gha $O[`]W\'<]`ZY'Xi fW\'X]Y'Y]bhfYZZYbXYb Dc`]nY]_f\\Zh\Y'''Hfchn'XYf'\YZh][Yb'JYf`Yhni b[Ybž'X]Y'g]Y'XUj cbhfi [ž\VYghUbX'ni '_Y]bYa 'NY]hdi b_h'@YVYbg[YZU\fž'k]Y'X]Y'6YUa hYb VYhcbYb'''8]Y'' +!\\\A\f][Y'k i fXY'i a [Y\YbX']b'Y]b'?fUb_Yb\Ui g [YVfUW\hž'k c'Y]bY'CdYfUh]cb'bchk YbX]['k Ufž'i a 'X]Y': c`[Yb'XYf GW\i ggj Yf`Yhni b[Yb'ni 'VY\UbXY`b''$

HUhj YfXÀW h][YfibXgY]bYJcf[YgW]W hY

8 Yf '6 Yg W i 'X][h Y ž Y] b 'Y \ Ya U `][Yf '6 i b X Yg d c `] n]gh 'U i g '6 f] `c b ž k i f X Y 'b U W 'g Y] b Ya '[Yk U `h h À h][Yb ', V Y f[f] ZZ' j c b 'Y] b Ya Gd Yn] U `Y] b g U h n_ca a Ub X c '] b 'g Y] b Ya 'K c \ b \ U i g 'Z Yg h[Yb ca a Yb " 6 Y] 'X Y f : Yg h b U \ a Y '_Ua 'Yg 'n i 'Y] W h Y b 'J Y f `Y h n i b [Y b ž X] Y 'Y f

YXcW\'Ua Vi`Ubh'VY\UbXY`b'_cbbhY"5i W\'k Ybb'X]Y'[YbUiYb I a ghÀbXY'XYf'HUh'bcW\'b]W\h'j c``ghÀbX]['[Y_`Àfh'g]bXž'[]Vh'Yg <]bk Y]gY'Ui Z'Y]bY'a Ò[`]W\Y'dgmW\]gW\Y'9f_fUb_i b['XYg'A UbbYgž X]Y'ni 'X]YgYa 'J cfZU```[YZØ\fh'\UVYb'_ÒbbhY"8]Yg'k]fZh': fU[Yb'ni gY]bYa '5i ZYbh\U`hgghUhi g'i bX'ni 'k Y]hYfYb'a Ò[`]W\Yb ; YZÀ\fXi b[Yb'Ui Z''

8]Y '9fa]hh`Yf`ghY\Yb`j cf`XYf`< YfUi gZcfXYfi b[ž:X]Y`<]bhYf[fØbXY XYf`HUh`ni `VY`Yi W\hYb"K Ug`_ÒbbhY`XYb`Y\Ya U`][Yb Dc`]nY]VYUa hYb`ni `Y]bYa `gc`W\Yb`J YfVfYW\Yb`[Yhf]YVYb`\UVYb3 8]Y`6Y\ÒfXYb`bY\a Yb`XYb`J cfZU```gY\f`Yfbgh/`Yg`k]fX`b]W\h`bi f X]Y`HUh`gY`Vgh`i bhYfgi W\hž`gcbXYfb`Ui W\`X]Y`J cf[YgW\]W\hY`XYg HÀhYfg`i bX`gY]bY`a YbhU`Y`; Ygi bX\Y]h"\8]YgY`5gdY_hY`g]bX YbhgW\Y]XYbXž`i a `XUg`6]`X`XYf`; YgW\Y\b]ggY`j c``ghÀbX][ZYgh\U`hYb`ni `_ÒbbYb"

2 ZZY b h`]WX Y 'F Y U_h]c b Y b 'i b X 'G]WX Y f \ Y]h

Gc`WkY'JcfZÀ``Y'YfgWkØhhYfb'b]Wkh'bif'X]Y'i ba]hhY`VUfY
I a [YVi b[ž'gcbXYfb'k YfZYb'Ui Wk'Y]b'GWkUhhYb'ØVYf'X]Y
G]WkYf\Y]h']b'XYf'; Ya Y]bXY'''6Øf[Yf'\UVYb'i a ']\fY'G]WkYf\Y]h
VYgcf[h'fYU[]Yfhž'i bX'Yg'ghY``h'g]Wk'X]Y': fU[Yž'k Y`WkY
A U» bU\a Yb']b'Ni_i bZh'Yf[f]ZZYb'k YfXYb'a ØggYbž'i a 'XYfUfh][Y
; Yk U`hhUhYb'ni 'j Yf\]bXYfb'''8]Y'Dc`]nY]'\Uh'VYfY]hg'VYhcbhž'XUgg
X]Y'G]WkYf\Y]h'XYf'6Øf[Yf'Ub'cVYfghYf'GhY``Y'ghY\h'i bX'UfVY]hYh
i bYfa ØX`]Wk'Ub'XYf'5i Z_`Àfi b['X]YgYg'JYfVfYWkYbg''

8]Y'JYf\UZhi b['XYg'HUhj YfXÀW\h][Yb'i bX'X]Y'`Ui ZYbXYb
9fa]hhìi b[Yb'nY][Ybž'XUgg'X]Y'Dc`]nY]'Ui Z'X]Y'G]hi Uh]cb'fYU[]Yfh
i bX'U``Yg']b']\fYf'A UW\h'GhY\YbXY'i bhYfb]a a hž'i a 'X]Y
<]bhYf[fØbXY'X]YgYf'gW\cW_]YfYbXYb'HUh'ni 'Yf[fØbXYb"'8]Y
dgmW\]gW\Y'JYfZUggi b['XYg'HUhj YfXÀW\h][Yb'_ObbhY'Y]bY
k]W\h][Y'Fc``Y']b'XYf'6Yi fhY]'i b['i bX'a O[`]W\Yfk Y]gY'gc[Uf']b
XYb'ni _ØbZh][Yb'fYW\h`]W\Yb'GW\f]hhYb'gd]Y`Yb"'8]YgY': U_hcfYb
kYfXYb'b]W\h'bi f'XYb'5i g[Ub['XYg': U``Yg'VYY]bZi ggYbž'gcbXYfb
Ui W\X]Y'K U\fbY\a i b['XYf'G]W\Yf\Y]h']b'XYf'FY[]cb'df\[Yb"

 $8\,]Y\,;\,\,YgWXY\backslash b\,]ggY\,]b\,'6f]`c\,b\,!\,H\backslash \varnothing `Yb\,'g]b\,X\,'Y\,]b\,'U\,`Ufa\,\,]Y\,fY\,b\,XYg$

6Y]gd]Y``ZØf`X]Y`dchYbn]Y``Yb; YZU\fYbž`X]Y`]b

nk]gWXYba YbgWX`]WXYb'6Yn]Y\i b[Yb'VYghY\Yb'_ObbYbž
]bgVYgcbXYfY'k Ybb'dgmWX]gWXY'9f_fUb_i b[Yb']a 'Gd]Y``g]bX"'8]Y

9fa]hh`i b[Yb'k YfXYb'a]h'<cWXXfi W_'j cfUb[Yhf]YVYbž'i bX'Yg

V`Y]Vh'UVni k UfhYbž'k Y`WXY'k Y]hYfYb' & Zcfa Uh]cbYb'Ubg'@]WXh
ca a Yb'k YfXYbž'i a 'XYb': U``'YbX[Ø`h]['ni'`ÀfYb"

8 YhU]`g

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U["XY