

GWX k YfYf'l bZU```]b'; Y`gYb_]fWXYb!6i Yf. :i » [Àb[Yf]b'Ub'NYVfUghfY]ZYb'j Yf`Yhnh

6Y]'Y]bYa 'I bZU``']b'; Y`gYb_]fWXYb!6i Yf'k i fXY'Y]bY
* %! 'À\f][Y': i » [Àb[Yf]b'gWk Yf'j Yf`Yhnhž'U`g'g]Y'Y]bYb

NYVfUghfY]ZYb'ØVYfei YfhY"

#D"; Y`gYb_]fWXYb!6i Yf'YfY][bYhY'g]WX 'Y]b'gWXk YfYf

J Yf_Y\fgi bZU``ž'XYf'ni 'Y]bYf'J Yf`Yhni b['Y]bYf': i » [Àb[Yf]b

ZØ\fhY"'8Yf'J cfZU```ZUbX'Ua '&* "'5i [i ghi a '%("&\$'I \f'Ub'Y]bYa

NYVfUghfY]ZYb'Ui Z'XYf'< U[YbghfU» Y'ghUhh''<]Yf'k c``hY'X]Y

* %! 'À\f][Y': fUi 'Ui g'XYb'B]YXYf`UbXYb'X]Y'GhfU» Y'ØVYfei YfYbž'U`g

g]Y'j cb'Y]bYa 'D? K 'YfZUggh'k i fXY"</pre>

8 Yf'I bZU```k i fXY'j cb'Y]bYa '&%! 'À\f][Yb': U\fYf'Ui g'< YfhYb j Yfi fgUW\hž'XYf'ni f'[`Y]W\Yb'NY]h']b'F]W\hi b['5`VYfhghfU» Y i bhYfk Y[g'k Uf"'8]YgY'5fh'j cb'J cfZÀ``Yb'nY][h'X]Y'; YZU\fYbž'X]Y : i » [Àb[Yf'Ub'ghUf_'VYZU\fYbYb'GhfU» Yb'k]Y'XYf'< U[YbghfU» Y Ui g[YgYhnh'g]bX"'; YfUXY'Ub'NYVfUghfY]ZYbž'k c': i » [Àb[Yf df]cf]g]Yfh'k YfXYb'gc``hYbž'_ca a h'Yg']a a Yf'k]YXYf'ni '__f]h]gW\Yb G]hi Uh]cbYb"

8 YhU]`g ni a I b ZU``gnYbUf]c

8]Y:i»[Àb[Yf]b'k Uf'Ui Z'XYa 'K Y['ØVYf'XYb'NYVfUghfY]ZYbž'U`g XYf'5i ZdfU``'[YgWXU\"'8Yf': U\fYf'_cbbhY'cZZYbVUf'b]WXh fYWXhnY]h]['Ub\U`hYb"' 9g']gh'YfgWXØhhYfbXž'k]Y'cZh'gc`WXY'I bZÀ``YdUgg]YfYb ž'gU[hY'Y]b'5i [YbnYi [Yž'XYf'XYb'JcfZU``'VYcVUWXhYhY'" A Ub'_ÒbbhY'a Y]bYbž'XUgg'X]Y': U\fYf'Ub'X]YgYb', VYfk Y[YbVYgcbXYfg'Ui Za Yf_gUa 'gY]b'gc``hYb"

BUWX`XYa``Ni~gUa~a~Ybghc```Y]ghYhY`XYf`FYhhi~b[~gX]Ybgh`gc~Zcfh

 $YfghY' <]`ZY'''8]Y'JYf`YhnhY'k i fXY'UbgW\`]Y*YbX']b'Y]b'?fUb_Yb\UighfUbgdcfh]Yfhž'k c'g]Y'k Y]hYfY'a YX]n]b]gW\Y'I bhYfghØhni b['Yf\]Y`h'' \\ 8]Y'GW\k YfY']\fYf'JYf`Yhni b[Yb'k i fXY'j cb'XYb'VY\UbXY`bXYb'YfnhYb'bcW\'b]W\h'[YbUi 'VY_Ubbh'[Y[YVYbž'YXcW\'k i fXY'VYfY]hg'Y]bY']bhYbg]j Y'6Y\UbX`i b['Y]b[Y`Y]hYh''$

8]Y'Dc`]nY]'\Uh'X]Y'9fa]hhi b[Yb'ni a '[YbUi Yb'<Yf[Ub['XYg I bZU``g'Ui Z[Ybca a Yb"'8UVY]'ghY\Yb'X]Y'5i ggU[Yb'j cb'NYi [Yb i bX'a Ò[`]W\Yfk Y]gY'j cf\UbXYbYg'J]XYca UhYf]U``Ui g'XYf I a [YVi b[']a 'A]hhY`di b_hži a '\YfUi gni Z]bXYbž']bk]YZYfb JYf_Y\fgfY[Y`b'VYUW\hYh'k i fXYb'i bX'k Y`W\Y': U_hcfYb'ni 'XYa I b[`ØW_'ZØ\fhYb"

JYf_Y\fgg]hi Uh]cb]b ; Y`gYb_]fWXYb!6i Yf

 $8]Y' < U[YbghfU > Y']ghY]bY'ghUf_'ZfYeiYbh]YfhY'GhfU > YZ'X]Y'gckc ` ZØf'D_k'U`g'UiW'ZØf': i > [Åb[Yf'Y]bY'k]Wkh][Y'JYfV]bXib[XUfghY``h'''9]b'gc`WkYf'IbZU```fY[h'X]Y'8]g_igg]cb'ia'X]Y'G]WkYf\Y]hUb': i > [Åb[YfØVYfkY[Yb'YfbYih'Ub'''+b'j]Y`Yb'GhÀXhYb']gh'XUg6YkigghgY]b'ZØf'X]Y'JYf`Yhn`]Wk_Y]hjcb': i > [Åb[Yfb']b'XYb`YhnhYb'\J\fYb'[Ygh]Y[YbZ'XYbbcWk'dUgg]YfYb']a'a Yf'bcWkhfU[]gWkY'IbZÀ``Y''$

"VYf`Y[ib[Yb`ni kY]hYfYb`G]WkYf\Y]hga U»bU\aYb`_ÒbbhYb`X]YGWkUZib[jcb`VYggYf`g]WkhVUfYb`NYVfUghfY]ZYb`cXYf`gc[Uf`X]Y⇒bghU``Uh]cb'jcb'5adY`b'Ub`ghUf_'ZfYeiYbh]YfhYb', VYfkY[YbiaZUggYb"'⇒b'; Y`gYb_]fWkYb'k]fX'X]Y'GhUXhjYfkU`hib[']b'XYb_caaYbXYb'HU[Yb'g]WkYf`YfkÀ[Yb'aØggYbž'cV'nigÀhn`]WkYAU»bU\aYb'bÒh]['g]bXž'ia'X]Y'G]WkYf\Y]h'XYf'DUggUbhYb'niYf\Ò\Yb"

8]Y'GW\]`XYfi b['XYg'J cfZU``g'j YfXYi h`]W\h'b]W\h'bi f'X]Y'; YZU\fYb]a 'GhfU» Ybj Yf_Y\fž'gcbXYfb'k]fZh'Ui W\': fU[Yb'ni f JYf_Y\fgg]W\Yf\Y]h']a '5``[Ya Y]bYb'Ui Z''FY[]cbU`Y JYf_Y\fg]b]h]Uh]j Yb'_ObbhYb']bg'@YVYb'[Yfi ZYb'k YfXYbž'i a 'XUg 6Yk i gghgY]b'ni 'gW\AfZYb'i bX'@Ogi b[Yb'ni 'Z]bXYbž'X]Y'ni _ØbZh][Y I bZA``Y'X]YgYf'5fh'j Yf\]bXYfb'_ObbhYb"

9]bV`]W_`]b`X]Y`< YfUi gZcfXYfi b[Yb`XYf J Yf_Y\fgg]W\Yf\Y]h

%XYf'I bZU```]gh'Y]b 'hf'U[]gWXYg'9fY][b]gž'XUg'b]WX h'bi f'X]Y
i ba]hhY`VUf'6YhfcZZYbYbž'gcbXYfb 'Ui WX'X]Y'; Ya Y]bgWXUZh']b
A]h`Y]XYbgWXUZh'n]Y\h''8]Y'Bchk YbX][_Y]h'ZØf'a Y\f'5i Z_`Àfi b[
i bX'G]WXYf\Y]hga U» bU\a Yb']gh'k]WXh][Yf'XYbb'Y'''2 ZZYbh`]WXY
?Ua dU[bYb'_ÒbbhYb'XUni 'VY]hf'U[Ybž'X]Y'bchk YbX][Y
5WXhgUa _Y]h']a 'Ghf'U» Ybj Yf_Y\f'ni 'ZÒfXYfb"

Gc`WXY'Jcf_ca a b]ggY'a UWXYb'XYi h`]WXžk]Y'k]WXh]['Yg']ghž gck c\`'; YgWXk]bX][_Y]h'U`g'Ui WX'X]Y'U``[Ya Y]bY
5i Za Yf_gUa _Y]h'XYf'5i hcZU\fYf'ni 'cdh]a]YfYb"'8]Y'ghfYb[Y
9]b\U`hi b['j cb'J Yf_Y\fgfY[Y`b'i bX'XUg'fYgdY_hj c``Y'A]hY]bUbXYf
]a 'GhfU» Ybj Yf_Y\f'_ObbhYb'XUni 'VY]hfU[Ybž']b'Ni _i bZh'À\b`]WXY
I bZÀ``Y'ni 'j Yfa Y]XYb"

I a ghàbXY i bX FYU_h]cbYb 'Ui Z'XYb I bZU``

8]Y``c_U`Y`Dc`]nY]`\Uh`9fa]hh`i b[Yb`Y]b[Y`Y]hYhži a `X]Y`[YbUi Yb I a ghÀbXY`XYg`I bZU``g`ni '_`ÀfYb"`8UVY]`k YfXYb`gck c\``XYf : U\fYf`U`g`Ui W\`a Ò[`]W\Y`NYi [Yb`VYZfU[hži a `Y]b`j c``ghÀbX][Yg 6]`X`XYf`G]hi Uh]cb`ni `Yf\U`hYb"`JYf_Y\fgi bZÀ``Y`Ub`NYVfUghfY]ZYb g]bX`]a a Yf`VYgcf[b]gYffY[YbXž`XU`g]Y`cZh`gW\k Yfk]Y[YbXY JYf`Yhni b[Yb`cXYf`gc[Uf`HcXYgZÀ``Y`ni f`: c`[Y`\UVYb`_ÒbbYb"

G]WXYfY]hga U > bU A Yb Ub NYVfUghfY]ZYb

 ± 0.000 Y hnhY b ± 3.00 fY b ± 0.00 fY b ± 0.00 fY b ± 0.00 g_i gg]cb ± 0.00 VY f ± 0.00 fY b $\pm 0.$

: i » [Àb[Yfb'Ub'NYVfUghfY]ZYb'ni [Ybca a Yb"'J]Y`Y'GhÀXhYž
XUfi bhYf'Ui WX'; Y`gYb_]fWXYbž'\UVYb'A U» bU\a Yb'Yf[f]ZZYbž'i a
X]Y'G]WXhVUf_Y]h'j cb'NYVfUghfY]ZYb'ni 'j YfVYggYfb'i bX'X]Y
G]WXYf\Y]h'ZØf': i » [Àb[Yf'ni 'Yf\Ò\Yb"'8 Uni 'nÀ\`Yb'i bhYf
UbXYfYa 'ni gÀhn`]WXY'6Y`Yi WX hi b[ž'XYi h`]WXY'A Uf_]Yfi b[Yb'i bX
gc[Uf'; YgWXk]bX][_Y]hgVY[fYbni b[Yb']b'i ba]hhY`VUfYf'BÀ\Y'j cb
NYVfUghfY]ZYb"

8 Y hU]`g

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