

K UggYfZU``!i bX'K UbXYfZØ\fYfZØf'<U``g': U``g'HUga Ub]Yb"
; Yb]Y» Yb'G]Y'Y]bY'Y]bZUWXYžUVYf'a U`Yf]gWXY'K UbXYfi b[
ni 'X]YgYa 'a Y\fghi Z][Yb'K UggYfZU```Ua'; fcca 'F]j Yf"'<U``g
 : U``g']gh'Y]bY'FY]\Y'j cb'a Y\fYfYb'_Ug_UX]YfYbXYb
K UggYfZÀ``Yb'Ua'; fcca 'F]j Yf']b'XYf'BÀ\Y'j cb'DmYb[UbU"
 8]YgYf'_i fnY'K UggYfZU``fi bX[Ub['V]YhYh'a Y\fYfY
5i gg]WXhgdi b_hY'Ui Z'X]Y'?Ug_UXYb'gck]Y'Y]bYb'6YfY]WX'a]h
 : Y`gYbVYW_Yb'i bX'Y]b'\]ghcf]gWXYg'K Y\f'Ui g'XYa'%-"

*J\f\i bXYfh"'K]f'VYgi WXYb'X]YgYb'K UggYfZU```bUWX'\YZh][Yb
FY[YbZÀ``Yb"'-bZc`[YXYggYb'nY][Yb'X]Y': chcg']b'X]YgYa'6`c[
Yg']b'j c``Yf'?fUZhi bX'g]Y'_ObbYb'VY]'-\AfYa'6Ygi WX'gc'ghUf_
 Z]Y» Yb'cXYf'b]WXh"'U`h1 / Ua d/_, &&\$/<5@@G': Ÿ@@H
H5GA 5B \PB/ Ua d/_, &&\$// [h/'U`h1 / Ua d/_, &&\$// 5@@G': Y'\text{ Composition of the composi

K UggYfZU``!'i bX'K UbXYfZØ\fYf'ZØf'<U``g': U``g'HUga Ub]Yb"
; Yb]Y»Yb'G]Y'Y]bY'Y]bZUW\Yž'UVYf'a U`Yf]gW\Y'K UbXYfi b['ni
X]YgYa 'a Y\fghi Z][Yb'K UggYfZU``'Ua'; fcca 'F]j Yf"'</pre>

<U``g`: U``g`]gh'Y]bY'FY]\Y'j cb'a Y\fYfYb'_Ug_UX]YfYbXYb
K UggYfZÀ``Yb'Ua '; fcca 'F]j Yf']b'XYf'BÀ\Y'j cb'DmYb[UbU"'8]YgYf
_i fnY'K UggYfZU``fi bX[Ub['V]YhYh'a Y\fYfY'5i gg]W\hgdi b_hY'Ui Z
X]Y'?Ug_UXYb'gck]Y'Y]bYb'6YfY]W\'a]h': Y`gYbVYW_Yb'i bX'Y]b
\]ghcf]gW\Yg'K Y\f'Ui g'XYa '%- "'\\J\f\i bXYfh"</pre>

K]f'VYgi W\Yb'X]YgYb'K UggYfZU``'bUW\'\YZh][Yb'FY[YbZ\\``Yb" \pm Zc\[YXYggYb'nY][Yb'X]Y': chcg']b'X]YgYa '6\c['Yg']b'j c\``Yf'?fUZh i bX'g]Y'_\ObbYb'VY]'\Rightarrow\fYa '6Ygi W\'gc'ghUf_'Z]Y\"Yb'cXYf'b]W\h"

• 'U`h1 < 5@@G': Y'@@H'H5GA 5B=9B 2

- 'U`h1 < 5@G': 5@G'K 5@?=B; 'HF 57? 'H5GA 5B=9B 2
- 'U'h1 < 5@@G': Y'@@H'K 9< F'H5GA 5B=9B 2

< U``g`: U``g` 'k c']gh'XUg3'

K]Y'VYfY]hg'Yfk À\bhž'VYZ]bXYh'g]W\'XYf'K UbXYfk Y['ni 'XYb'<U``g: U``g']b'XYf'BÀ\Y'XYg'8cfZYg'DmYb[UbU']a 'BcfXcghYb HUga Ub]Ybg"'8]Yg']gh'i b[YZÀ\f'&&'?]`ca YhYf'j cb'Gh"'<Y`Ybg'cXYf Yhk Ug'a Y\f'U`g'%() '?]`ca YhYf'j cb'@Ui bWYghcb'YbhZYfbh"

K]Y '_ca a h'a Ub 'ni 'XYb '< U``g': U``g3

I a 'ni a '< U``g': U``g'HfU]`\YUX'ni '[Y`Ub[Ybž'a ØggYb'G]Y'Ui Z'XYa HUga Ub'<][\k Um'fb' &']b'F]W\hi b['DmYb[UbU'ZU\fYb"'G]Y'Z]bXYb XYb'DUf_d`Uhn'XYg'K UggYfZU``g'Yhk U'%ž&'_a 'YbhZYfbh'Ui Z'Y]bYf i bVYZYgh][hYb'GhfU» Yž'X]Y'U`g'5bW\cf'FcUX'VY_Ubbh']gh"'8]YgY GhfU» Y'VYZ]bXYh'g]W\'Ub'XYf'9W_Y'Y]bYf'_`Y]bYb'?i fj Y'i bX'_Ubb Y]W\h'ØVYfgY\Yb'k YfXYb"'9g'[]Vh'YXcW\'GW\]`XYfž'X]Y'XYb'K Y[ni 'XYb'K UggYfZÀ``Yb'k Y]gYb"

8]Y'i bVYZYgh][hY'GhfU» Y'f\u00e4b\w00cf\u00e4c\u00e4

8 Y f ' < U ` `g : U ` `g 7] f W] h

K UbXYfghfYW_Y. '&ž) '_a '\]b'i bX'ni fØW_ 8Ui Yf. '%' '%ž) 'Ghi bXYb GWk]Yf][_Y]h '9]bZUW

8 Y f' < U``g': U``g'7] f W'] h'] g h' Y] b 'f Y`Uh] j '_i f n Y f'i b X 'Y] b Z U W Y f G d Un] Y f [Ub ['Ui Z'Y] b Y a 'V f Y] h Y b ž' [i h 'UV [Y g hi Z h Y b ': Y`X k Y ["'8] Y G h f Y W_Y '] g h' [f O » h Y b h Y] `g 'Y] b ' <] b ! 'i b X ' < Y f k Y [ž' U V Y f' G] Y '\ U V Y b 'X] Y A O [`] W _Y] h ž' Y h k U 'Ui Z'\ U`V Y a 'K Y ['ni 'X Y b 'K Ugg Y f Z A ``Y b 'Y] b Y G W `Y] Z Y 'ni f Ø W_ 'ni a 'D U f _d `Uhn 'ni 'b Y \ a Y b "

8]Y: `cfU'\]Yf']ghYhk Ug'hfcW_YbYf'U`g'VY]:XYb'bU\Y'[Y`Y[YbYb'Gh 7c`i a VU': U``g"'9bh`Ub['XYf'GhfYW_Y'[]Vh'Yg'Y]bY'[i hY'A]gW\i b[Ui g'Ui ghfU`]gW\Yb'9i _U`mdhi gVÀi a Yb'i bX'[Ya À»][hYb FY[Ybk U`Xa mfhYb'i bX'; fc» a UbbZUfbYb" U`h1 <5@@G': 5@@G'F9; 9BK 5@8'GD5N=9F; 5B; 2 5V[YgY\Yb'] ca '< Ui dhk UggYfZU``'[]Vh'Yg'Ui Z'XYa 'K Y['Y]b'dUUf <][\`][\hgž'X]Y'Y]bYb'6Ygi W\'k Yfh'g]bX"

? UfhY 'j cb' < U``g': U``g'I bhYb'\UVY']W\'Y]bY'Y]bZUW\Y'? UfhY VY][$YZ\emptyset$ [$h\check{z}$ 'X]Y'X]Y'F ci hY'i bX'X]Y'9bhZYfbi b[Yb'ni 'YXYf 5hhfU_h]cb'Ui Z'XYf'FYbbghfYW_Y'j cb' < U``g': U``g'nY][h"'

'U`h1 K UbXYf_UfhY'<U``g': U``g 2

I `h]a Uh]j Y hUga Ub]gW\Y FY]gYfYggci fW\

**&'Yd]gWXY'5_h]j]hAhYb']b'HUga Ub]Yb'
\$\text{VYfbUWX hi b[ga O[`]WX_Y]hYb']b'HUga Ub]Yb'fWYghY'CfhYŁ' '&*
YfghUi b`]WXY'K UggYfZA``Y']b'HUga Ub]Yb''') 'A i gh!Xc!
K UbXYfi b[Yb']b'HUga Ub]Yb

< U``g': U``g'HUga Ub]Yb' 'K UggYfZU``!5 i gg]W\ hgdi b_h

K Yb][Yf'U`g'Y]bYb'?]`ca YhYf'bUW\'6Y[]bb'XYf'K UbXYfi b[YffY]W\Yb'G]Y'XYb'<Ui dhUi gg]W\hgdi b_h'XYg'K UggYfZU``g"'9\f`]W\ [YgU[h'k Uf']W\'j cb'X]YgYa '5i gg]W\hgdi b_h'Y]b'k Yb]['YbhhÀi gW\h'' 8]Yg'`U['XUfUbž'XUgg'Yg'Ui Z[fi bX'XYf'i a `]Y[YbXYb'6Ài a Y'i bX GhfÀi W\Yf'Yhk Ug'gW\k]Yf]['k Ufž'X]Y'; fÒ»Y'ni 'Yf_YbbYb'' U`h1 <5@G': 5@G'K 5GG9F: 5@G'H5GA 5B \$9B 2

5 Vgh]Y['ni f'6 Ug]g'XYf'i bhYfghYb'Ghi ZY

 $Ni\ a\ ;\ `\emptyset W_`[\]Vh`Yg`Y]bYb`fY`Uh]j\ `ghY]`Ybž`UVYf`_i\ fnYb`K\ Y[$

\]bi bhYfini `XYb`XUfi bhYf``]Y[YbXYb` FcW_dcc`g "'<]Yf`_\ObbYb G]Y`XYb`i bhYfghYb`K UggYfZU```Ui g`b\AW\ghYf`B\A\Y`VYk i bXYfb" U`h1 < 5@G': \\'geog'K 5B89FK 9; 2 GW\chhYfk Y[`V]g`ni `XYb i bhYfYb`K UggYfZ\``Yb`fFcW_dcc`gŁ

8]YgYf'Cfhi]ghiUi Z'XYf'?UfhYijcb'<U``g': U``g'cVYb'U`g' FcW_'Dcc`g [Y_YbbnY]W\bYh''K]Y'G]Y'^YXcW\'Ui Z'XYb': chcg'bUW\'ghUf_Ya FY[Yb'gY\Yb'_ObbYbž'\UhhYb'k]f'_Y]bY'7\UbWYž']b'X]YgYb'Dcc`g ni 'gW\k]a a Yb"

U`h1 < 5@G': 5@G'FC7? DCC@G'H5GA 5B = 9B 2 U`h1 < 5@G': Ÿ@@9'K 5GG9F: 5@@'FC7? DCC@G 2

Hcd!H]Yf: U``q

BUWXXYa 'k]f'Y]b][Y'5i ZbU\a Yb'XYg'i bhYfYb'K UggYfZU``g
[Ya UWXh'\UhhYbž'[]b[Yb'k]f'XYb'K Y['ni fØW_'i bX'k Y]hYf'ni a
bÀWXghYb'K UggYfZU``'VY]'<U``g': U``g"'8]Yg'k Uf'k]f_`]WX'bi f'Y]b
i fnYfž'Y]bZUWXYf'GdUn]Yf[Ub['a]h'bi f'Y]bYa '`Y]bYb'5Vgh]Y['Ua
9bXYž'i a 'ni a 'K UggYfZU``'ni '[Y`Ub[Yb"

U`h1 < 5@G': Ÿ@H'H5GA 5B=9B 2

8 Ugʻ5i ga U» ʻXYgʻg]bhZi hUfh][YbʻFY[YbgžʻXYbʻXUgʻ; YV]YhʻYfʻYVhYž kifXYʻbcWkʻXYi hʻ]WkYfžʻgcVUʻXʻk]fʻYgʻ\]Yf\Yfʻ[YgWkUZZhʻ\UhhYb" K]fʻZUbXYbʻ6Ài a Yʻi bXʻgWkkYfYʻ6Ui a ghÀa a YžʻX]YʻX]fY_hʻ\]bhYf XYbʻK UggYfZÀʻʻYbʻ[Y[YbʻX]YʻI ZYfʻXYgʻ; fcca ʻF]j Yfʻ[YgWka YhhYfh kUfYb"

U`h1 K 5GG9F: 5@K 5B89FIB; "B'H5GA 5B-9B'69=< 5@G: 5@G 2

K Y\fUi g XYa %- " >U\f\i bXYfh

8]Y``YhnhY`5hhfU_h]cb`Ui Z`XYf`K UbXYfi b[`ni `XYb`<U``g`: U``g`]gh XUg`K Y\f`Ui g`XYa `%- "`\J\f\i bXYfh"`8]YgY`j cb`A YbgW\Yb\UbX [YgW\UZZYbY`?Ug_UXY`i bX`XUg`[fc»Y`6YW_Yb[YV]Yh`X]YbhYb a Y]bYb`<c`nZÀ``Yfb`Ui g`XYa `%- "`\J\f\i bXYfh`ni f`?cbhfc``Y`XYg K UggYfghUbXg`XYg`; fcca `F]j Yf" U`h1 <5@G`: Ÿ@H`K 9<F`H5GA 5B=9B 2

BUWXXYa 'k]f'_i fn'Ub[Y\U`hYb'\UhhYbž'ghY``hYb'k]f'ZYghž'XUgg'Yg Y]bYb'kY]hYfYb'KY['[UVž'XYf'\]bhYf'XYa 'KY\f'kY]hYfZØ\fhY'i bX Ui Z'XYf'?UfhY'XYf'HUqa Ub]U'DUf_q'b]WXh'Yfk À\bh'k i fXY"'K]f Zc`[hYb']\a 'Yhk U'Y]bYb'?]`ca YhYf'i bX``UbXYhYb'gW\`]Y»`]W'k Y]hYf Zi ggUi Zk Àfhg"

<]Yf'k Uf'XYf'K UggYfZi gg'j]Y``fi \][Yf'i bX'X]Y'cfUb[YZUfVYbYb
I ZYf'k UfYb'j cb'k i bXYfgW\ObYbž'\cW\'Ui ZfU[YbXYb': UfbYb
[YgÀi a h"'CVk c\``Yg'g]W\'j]Y``Y]W\h'b]W\h'i a 'Y]bY'cZZ]n]Y``Y
5hhfU_h]cb'\UbXY`hž'Ya dZY\`Y']W\ž'Yg'g]W\'Ubni gY\Ybž'k Ybb'G]Y
Yhk Ug'k Y]hYf'[Y\Yb'a OW\hYb"</pre>

- 'U`h1 6FŸIH = 5A : @ GG: 5FB9" B 'H5GA 5B = 9B 2

A Y\f'5VYbhYi Yf']b HUga Ub]Yb

A 9=B 9 ? 5 A 9F 5 T B 8 : C H C 5 I GF , GHI B;

- Gd]Y[Y``cgY'?Ua YfU.'7Ubcb'F)
- 8 fc \ b Y . '8 > A U|] W D fc '&
- ' *\$!; fUX!5Wh]cb!?Ua YfU. =bghU' *\$ 'CbY'L&
- @UbXgW\UZhgcVY_h]j . '7 Ubcb'F: '%) !') 'a a 'Z#'', @
- 5``fci bX!CVY_h]j . '7Ubcb'F: '&(%\$) 'a a 'Z#(@
- HY`YcVY_h]j . 7 Ubcb F: 7%\$\$) \$\$ a a Z#Z#(ž) + ž% @
- $\bullet @ Ub [Y 5_h] c b g g h Ub [Y $ $ b j] g] V Y Dc Y f b i `Y h H] a Y L$
- @UbXgW\UZhg`]bgYbZ]`hYf. '<cmU'7]fW' `Uf'Dc`Uf]nYf
- ? Ua YfUfi W_gUW_. :: !Ghcd H]`cdU
- @ $YV^{b}[gZchcniVY\D, DYU_8Yg][b.7UdhifY.7]d$

9]bY'@]ghY'a Y]bYf'Ya dZc\`YbYb': chcUi gfØghi b['fM]bgW\`]Y»`]W\ k Ug']W\'VYbi hnY'i bX'k Ufi a Ł'Z]bXYgh'Xi ']b'a Y]bYa '@Y]hZUXYb'ZØf?Ua YfUUi gfØghi b['ZØf'X]Y'FY]gY"

K Ybb'G]Y'Y]bYg'XYf': chcg'Ui Z'X]YgYf'K YVg]hY'j Yfk YbXYb
a ÒW hYbž'VYgi W Yb'G]Y'V]hhY'a Y]bY'@]nYbn]Yfi b[ggY]hYž'i a
\YfUi gni Z]bXYbž'k]Y"'→W 'j Yf_Ui ZY'Ui W 'dfcZYgg]cbY``Y
?i bghXfi W_Yž'VYgi W Yb'G]Y'a Y]bYb'Df]bh'GhcfY'cXYf'_cbhU_h]YfYb
G]Y'a]W 'X]fY_h'ZØf'Nc``UVnØ[Y'j cb'6]`XYfb'Ui Z'K Y'GYY_'HfUj Y`"

8 YhU]`g

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