

!

"#\$!

"#V! , ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > ! ef = B - ! ^ V !

D % " 5 . & * . " - 5 " 5 8 - \$ I \$ E * " - F * \$. " I * % - /) " F * /) - F ! " * I 5 - \$ 5 % /) " : *)) G H * \$ % O ! " / % & "

"#UWm!

, ? 9VG # B , = ? @ W!

"#W!

GG-! 4 GbKJ@>b1 : :!G:!'@: g!gQ1!%1 .Gb bGb .!

gD*!/;9)*(2*!/;!<;/CE?B/*22!M)=T)(<2!(+! , % , !B(F!29D==B2!;/!+D*!B(2+!
(B<=2!+F=!C*9(C*2!+=!9=<8(+!+D*!/*T(+;H*!*EE*9+2!=E!2+)*22!;2!;<M)*22;H*-.!
j *!O/=F!+D(+!C=/*!);TD+!(/C!C=/*!=E+*/!P9=/+;/ ?=?2B&! (/C!C*C;9(+*CB&R0!
<;/CE?B/*22!<*C;+(+;=/*EE*)2!2=<*+D;/T!*H*!/!<=)*!+D(/!2+)*22!)*C?9+;=/(/C!
;<M)=H*C! B(F&*);/T! 2O;BB2-! ! Q=F*H*)0! B(F! 2+?C*/+2! ()*! /+=);=?2! E=)!
C)=MM;/T!M)(9+;9*20!*2M*9;(BB&!;/!+D*!U>!&*())!FD*/!+D*&!/*C!+D* <!+D*!<=2+0!
(E+*)! X?2+! (! 2D=)+! M*);=C-!! gD*)*! ;2! 9=/9*)/! ;/! +D*! /(+;=(B! <;/CE?B/*22!
<=H* <* /+!;/!+D*!B(F!+D(+!+D*!2+?C*/+2!())*/=+!(9+?(BB&!M)(9+;9;/T-^{\$}!! 4 =)*=H*)0!
H/!;E!(B(F!2+?C*/+!P=)!B(F&*)R!D(2!(C*C;9(+*C!<;/CE?B/*22!M)(9+;9*0!+D*)*!
())*! (! MB*+D=)(! =E! MD&2;=B=T;9(B0! * <=+;=/ (B0! M2&9D=B=T;9(B0! (/C! 8*D(H;=)(B!
M)(9+;9*2!+D(+!9(/!2;T/;E;9(/+B&!*/D(/9*!B(F!2+?C*/+!P(/C!B(F&*)R!F*BB!8*;/T!
;/! F (&2! +D(+! <;/CE?B/*220! (B=/*0! 9(//=+! !

"U#! , ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > ! e f = B - ! ^ V !

8B(+(/+B&!/=!*/=?TD!+=!M)=H;C*!<;/CE?B/*22!M)=T)(<<;/T!(B=/*!(/C!*ZM*9+!
=?)!2+?C*/+2!)=!(++=)/*&2!+=!D(H*!(!2+)*22I<(/(T* < */+!2=B?+;= /!)=!*M;MD(/&-^!

"#UWm!

, ? 9VG # B, = ?@W!

"UU!

9*/+*)!=E!=?)!8)(;/0!+D*((<&TC(B(0!T*+2! (9+;H(+*C! (/C!=?)!8)(;/!T=*2!;/+!=
2?)H;H(B! <=C*-! ! : ?)H;H(B! <=C*! ;/H=BH*2! B=FIH*H*B0! ;<M?B2;H*! 9=T/;+;H*!
M)=9*22;/T-!! ; < ?B+(/ *=?2B&0!+D*((9+;H;+&!;/!=?)!8)(;/^2!D;TDIB*H*B!*Z*9?+;H*!
M)=9*22=)0!+D*(M)*E)=/(B!9=)+*Z0MB? < < *+2-^{U#}!! , 2!(!)*2?B+0!FD*/!F*!(!)*E**B;/T!
2+)*220! F*!/*9*22();B&!()*!(B2=!9=T/;+;H*B&!;<M(;)*C-!! j D;9D! <*(/2!+D(+!=?)!
E=9?20! M)=C?9+;H;+&0! *EE;9;*/9&0! (/C! F=)O! 3?(B;+&!C*9B;/*-!

"U"!

, ; <= 7 > ? , = ? @ A "9B > "@ ? CD ? > !

ef=B-!^V!

M=+* /+; (B!n!H5-F"\$%F/88\$%*+ "/%&"8*. '5. I /%6*!n!F*! <?2+!(9+;H*B&!; <M)=H*!
(BB!=E!+D* <-!

gD*!H(2+! <(X=);+&! =E!M*=MB*!D(H*! /!=;C*(!D=F! +=! ; <M)=H*! (/ &! =E! +D*!
2*H* /!E(9*+2!=E!2*BE0! < ?9D!B*22!(BB!=E!+D* <!2; < ?B+(/ *=?2B&-!! 4 =2+!; /C;H;C?(B2!
D(H*!H*)&!B; < ;+*C! +=B2! =)!+*9D /; 3 ?*2!E=); <M)=H; /T! (/ &! =E! +D*! 1 B* < * /+2! =E!
: *BE-!! gD*)*E=)*0!+D*&!)* < (/!2+?90!FD*)*H*)!+D*&! / (+?) (BB&!D(H*!8** /!2; /9*!
*)B&! (C?B+D==C-!

gD;2! ;2! ? /2?)M);2; /T0! 9= /2;C*); /T! <=C*) /! *C?9(+;= /! C=*2! /+=! ;/9B?C*!
;C* /+;E;9(+;= /! =)2+)* /T+D* /; /T! =E! +D*! 1 B* < * /+2! =E! : *BE! = /! +D*! 9?); 9?B? <-!!
: +?C* /+2!2M* /C!+D*);!D;TD!29D==B!&*()2!B*() /; /T!C*+(;B2!=E!9D* < ;2+)&0!(BT*8)(0!
F=)BC!B;+*) (+?)*0! (/C! 1 ?)=M* (/!D;2+=)&-!! j D;B*!+D*)*! ;2! /+=D; /T! F)= /T! F; +D!
(/ &! =E! +D*2*! +=M;920! /=/ *! =E! +D* <! D(2! (/ &! 8*() /T! = /! (/! ; /C;H;C?(B`2!
* < +=; = / (B!D*(B+D! =)! 9=T /; ;H*!M*)E=) < (/9*! ; /!B;E*!! j *! () *! + (?TD+!D=F! +=!
2=BH*! < (+D* < (+;9(B!M)=8B* <20! 8?+! /+=!D=F! +=! 2=BH*! * < +=; = / (B!9D(BB* /T*2-!!
j *! () *! + (?TD+!FD(+! =99?)) *C! ; /! 1 ?)=M*! ; /! +D*! * () B&!UW##` 20! 8?+! /+=! FD(+! ;2!
=99?); /T! F; +D; /! =?)! =F /!M2&9D*!); TD+! / =F-!! j *! () *! + (?TD+!D*!9D* < ;2+)&! =E!
F (+*) (/C!) =9020! 8?+! /+=! +D*!9D* < ;2+)&! =E! =?)! * < +=; = /2! (/C!8) (/ -!

, 2! (!)*2?B+0! F*!)* < (/! FD*)*H*) F*! / (+?) (BB&! D(MM* /! +=! 8*! = /! +D*!
2M*9+)? <! =E! 2*BEI < (2+*)&-!! j *! C= /+=! ; <M)=H*! =?)! D(MM; / *22! =)! 9=T /; +=; = /!
8*9(?2*! F*! () *! / *H*)! + (?TD+!D=F! +=! C=! 2=-!! gD*!)*2*()9D! 2D=F2! +D(+! =?)!
* < +=; = / (B!D*(B+D! (/C!9=T /; ;H*!E? /9+; = /; /T!9 (/!8*!2; T /; E; 9 (/ +B&!; <M)=H*CO^{UU}

"#UWm!

, ? 9VG # B, = ? @ W!

"US!

8(20*+8(BB!;2!F=!(/C!B=2+!8(2*C!=/!E(9+=)2!2?9D!(2!2D==+;/T!M*)9*/+(T*0!8(BB!
<=H* < */+0!(/C!F*(OI2;C*!C*E*/2*-!! ; < ;B()B&0! = / *!9=?BC!()T?!*!+D(+!MD&2;9(B!
+)(; /*)2!()?!? / *9*22()&!+=!E==+8(BB!M)=T)(< 2!8*9(?2*!E=) < (+; = / 0! 8B=90; / T0!
F;C*!) *9*;H*!) = ? + *20! 8B;+[! M(90(T*20! (/C! 9=) / *)8(90! 9=H*)(T*! ()! FD(+!
C*+*) < ; / *2!+D*! F; / /*)! (/C!B=2*)-!! j D&!C= / ^ +! 2M=)+2!M)=T)(< 2!2M* / C! (BB! =E!
+D*;)! M(9+;9*! +; < *! F=)0; / T! = / ! +D*2*! +*9D / ;9(B! (2M*9+2! =E! M*)E=) < (/9*α(1!)(< 25 01(2601(2601(())-1(2)

"U^!

, ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > !

e f = B - ! ^ V !

A=T / ; + ; = / 0 d ! ; - * - 0 ! + D * ! / = + ; = / ! + D (+ ! D = F ! F * ! < (/ ; M ? B (+ * 0 ! D = B C 0 ! (/ C ! ? 2 * ! = ?) ! 8 = C & !
C ;) * 9 + B & ! ; / E B ? * / 9 * 2 ! = ?) ! * < = + ; = / (B ! (/ C ! 9 = T / ; + ; H * ! 2 + (+ * . U S !

g D * !) * 2 * () 9 D ! C * < = / 2 +) (+ * 2 ! + D (+ ! F D * / ! F * ! C = ! (! c E =) 9 * C ! 2 < ; B * 0 d ! * H * / ! ; E ! F * !
() * ! / = + ! E * * B ; / T ! D (M M & 0 ! = ?) ! D (M M ; / * 2 2 ! ; / 9) * (2 * 2 ! (/ C ! = ?) ! 2 +) * 2 2 ! C * 9) * (2 * 2 - ! G / ! (!
M () + ; 9 ? B () B & ! E (2 9 ; / (+ ; / T ! 2 + ? C & 0 ^ ! (! + * (< ! = E ! M 2 & 9 D = B = T ; 2 + 2 ! E) = < ! + D * ! @ / ; H *) 2 ; + & !
= E ! k (/ 2 (2 ! M) = H ; C * C ! M () + ; 9 ; M (/ + 2 ! F ; + D ! (! 9 D = M 2 + ; 9 0 ! (/ C ! D (C ! + D * < ! D = B C ! + D * !
9 D = M 2 + ; 9 0 ! ; / ! + D * ;) ! < = ? + D ! ; / ! + F = ! C ; E E *) * / + ! F (& 2 ! P = / * ! + D (+ ! T * / *) (+ * C ! (! E =) 9 * C !
2 < ; B * ! (/ C ! = / * ! + D (+ ! T * / *) (+ * C ! (! E =) 9 * C ! 2 9 = F B R 0 ! F D ; B * ! D (H ; / T ! + D * < ! * Z M *) ; * / 9 * !
(! 2 +) * 2 2 I ; / C ? 9 ; / T 0 ! 9 = B C I M) * 2 2 ! +) * (+ < * / + 0 ! ; / ! F D ; 9 D ! + D * ;) ! D (/ C ! F (2 ! C ? / O * C ! ; / !
; 9 * I 9 = B C ! B ; 3 ? ; C ! + D (+ ! ; / 9 ; + * 2 ! + D * ! 2 +) * 2 2 !) * 2 M = / 2 * ! ; 2 ! D ? < (/ 2 - ! ! j D * / ! + D * !

"#UWm!

, ?9VG

"U_! , ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > ! e f = B - ! ^ V !

F * B B I 8 * ; / T ! (/ C ! 9 = T / ; + ; H * ! M *) E =) < (/ 9 * - ! ! j D * / ! 2 D * ! ; 2 ! F =) O ; / T ! = / ! (! + ; T D + !
C * (C B ; / * 0 ! ; + ! ; 2 ! M () (< = ? / + ! + D (+ ! 2 D * ! < ; / C E ? B B & ! 9 = / + =) + 2 ! D *) ! 8 = C & ! (/ C ! E (9 * ! ; / ! (!
F (& ! + D (+ ! < (Z ; < ; [* 2 ! D *) ! * < = + ; = / (B ! (/ C ! ; / + * B B * 9 + ? (B ! E ? / 9 + ; = / ; / T - !

P " R ! 4 G b K !

"#UWm!

, ? 9VG # B, = ?@W!

"U\$!

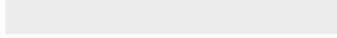
D*(B+D0"-!)=)K(/;*B! k(D/*<(/0!(! j *2+*)/! 19=/=<;2+!(/C!L2&9D=B=T;2+! FD=!

"UV!

"#UWm!

, ?9VG#B, =?@W!

"UW!



""#!

, ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > !

ef =B-!^V!

- G < M ? B 2 ; H * ! C * 9 ; 2 ; = / I < (O ; / T ! C * 9 B ; / * 2 0 ! (/ C ! F ; B B ! M = F *) ! (/ C ! M) ? C * / + ! C * 9 ; 2 ; = / I < (O ; / T ! * B * H (+ * . S \$!
!
g D * ! 2 9 ; * / 9 * ! ; 2 ! 9 B * () a ! 2 D ; E + ; / T ! ; / + = ! (! 2 + (+ * ! = E ! T) (+ ; + ? C * !) * C ? 9 * 2 ! & = ?) ! 2 +) * 2 2 ! (/ C ! ; < M) = H * 2 ! & = ?) ! 8) (; / ! E ? / 9 + ; = / ; / T - ! ! : = ! D = F ! 9 (/ ! & = ? ! ? 2 * ! + D ; 2 ! 2 9 ; * / 9 * ! + = !

"#UWm

""!"

, ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > !

ef=B-!^V!

&=?^)*!C=;/Tod!!gD*!C*2M=/C*/+!<(/!B==0*C! ?M!(/C!2B?TT;2DB&!2(;C0!cG`<!
 B(&/T!8);902-d!!gD*!M(22*)8&!+D(/0*C!D;<!(/C!+D*/!(MM)=(9D*C!+D*!2*9=/C!
 <(/0! 8*E=)*! (20;/T! D;<! FD(+! D*! F(2! C=;/T-! ! gD*! 8?=&(/+! <(/!
 /+D?2;(2+;9(BB&!(/2F)*C0!cG`<!8?;BC;/T!(!9(+D*C)(B-d!
 , ! 2*/2*! =E! M?)M=2*! ;/! FD(+! F*! C=! T;H*2! +D*! (9+;H;+&! <*(;/T! (/C!
 C)(<(+;9(BB&!;/9)*(2*2!=?!)E?BE;BB<*/+0!8?=&(/9&0!(/CM(22;=/!E=)!+D*!(9+;H;+&-!!

"#UWm!

, ? 9VG # B, = ? @ W!

""S!

j D(+! F*! <?2+! C=! ;/! +D=2*! <=<*/+2! n! ;E! F*! F (/+! +=! ?MIB*H*B! =?)!
*<=+;=/2! (/C!9=T/;+;= /!n!;2!+=!;<<*C;(+*B&!9=// *9!+D*!)?C;<*/+)&!+(20!+=!
(!D;TD*)M?)M=2*-!GE!&=?!()*(!B(F!2+?C*/+!FD=;!2!=H*)FD*B<*C!8&!+D*!(<=? /+!
=E!)*(C;/T! &=?! D(H*! +=;/;TD+0! C=! /+=! X?2+! <;/CB*22B&! M=F*)I+D)=?TD! +D*!
)*(C;/T!;/!(T=/&-!% *E=)*!2+(+;/T!+D*!)*(C;/T0!M(?2*!E=)!(!<=<*/+0!(/C!(20!
&=?)*2*BE! FD&!&=?!C*9;C*C!+=!9=<*/+=!B(F!29D==B!;/!+D*!E;)2+!MB(9*-!!K=1&=?!
)*<*<8*)!D=F!*Z9;+*C!&=?!F*)*(8=?+!+D*!M=22;8;B;+&!E!T=;/T!+=!B(F!29D==B!
FD*/!&=?!E;)2+!9=/2;C*)*C!;+o!!Q=F!(8=?+!+D*!*<=+;=/2!&=?!E*B+! FD*/!&=?!

""^! , ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > ! e f = B - ! ^ V !

!

G / ! U W W V 0 ! (! M 2 & 9 D = B = T ; 2 + ! / (< * C ! 7 = & ! % (? < * ; 2 + *) ! 9 = / C ? 9 + * C ! (! B (/ C < () O !
2 + ? C & ! + D (+ ! < (C * ! D ; < ! (! T ; (/ + ! ; / ! + D * ! F =) B C ! = E ! M 2 & 9 D = B = T & - ^ " ! ! Q * ! F (B O * C ! ; / + = ! (!
) = = < ! E ; B B * C ! F ; + D ! ; / C ; H ; C ? (B 2 ! F D = ! D (C ! H = B ? / + * *) * C ! E =) ! (! 9 = T / ; + ; H * ! + * 2 + 0 ! (/ C !
9 ()) ; * C ! (! B () T * ! M B (+ * ! = E ! M ; M ; / T ! D = + 0 ! E) * 2 D I 8 (O * C ! 9 = = 0 ; * 2 0 ! (2 ! F * B B ! (2 ! (! 8 (T ! = E !
) (C ; 2 D * 2 - ! ! g D * ! E) (T) (/ 9 * ! = E ! + D * ! E) * 2 D ! 9 = = 0 ; * 2 ! E ; B B * C ! + D * ! * / + ;) * !) = = < - ! ! Q * ! + D * / !
) (/ C = < B & ! = E E *) * C ! * (9 D ! H = B ? / + * *) ! * ; + D *) ! (! E) * 2 D I 8 (O * C ! 9 = = 0 ; * ! =) ! (!) (C ; 2 D 0 !
F ; + D = ? + ! T ; H ; / T ! + D * < ! (! 9 D = ; 9 * 0 ! =) ! * Z M B (/ (+ ; = / - ! ! , E + *) ! M) = H ; C ; / T ! * (9 D ! H = B ? / + * *) !
F ; + D ! D *) ! =) ! D ; 2 !) * 2 M * 9 + ; H * ! 2 / (9 0 0 !

"#UWm!

, ? 9VG # B, = ? @ W!

" "]!

9=T / ; +; H*! M*) E=) < (/ 9*! 2; < ; B() B&! C* MB* +* 20! B*(C; / T! + =!) * C? 9* C! E=9? 20! T)* (+*! C; 2+) (9+; 8; B; +&0! (/ C! ; < M(;) * C! C* 9; 2; = / I < (O; / T- ^ \$!
, F () *! = E! + D; 2!) * 2* () 9D0! < (/ &! = E! 2=9; * + & ` 2! T)* (+! + D; / O*) 2! F* () ! H;) + ? (BB&! + D*! 2 (< *! 9B = + D* 2! * H*) &! C (& 0! O / = F; / T! + D (+! + D*! 9 = T / ; +; H*!) * 2 = ?) 9* 2! 2M* / +! = / C* 9; C; / T! = /! + D*!); TD+! = ? + E; +! ; /! + D*! < =) / ; / T! F; BB! 3 ?; +*! B; +*) (BB&!) * C? 9*! + D* ; ! 9 = T / ; +; H*! E;) * M = F*)! (H (; B (8B*! E =)! E ()! < =) *! ; < M =) + (/ +! C* 9; 2; = / 2! B (+*)! ; /! + D*! C (& -! ! gD; / O! = E! : +* H*! ' = 82! (/ C! + D*! 8B (90! + ?) + B* / * 900! 8B? * ! X* (/ 20! (/ C! FD; +*! / * F! 8 (B (/ 9*! 2 / * (O*) 2! D*! F =) *! H;) + ? (BB&! * H*) &! C (& -! ! h)! 4 (O! t ? 90*) 8*) T! (/ C! + D*! 2 (< *! T) * &! + I 2D;) +! (/ C! T) * &! [; MI ? M! D = = C; *! D*! F* () 2! * H*) &! C (& -! ! h)! L) * 2; C* / +! h 8 (< (! (/ C! + D*! 2 < (BB! 9 = BB* 9 + ; = /

"_!

, ; <=7> ? , = ? @ A " 9 B > " @ ? C D ? > !

"#UWm!

, ?9VG#B, =?@W!

""\$!

D=F!<?9D!=E!

""V!

, ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > !

ef = B - ! ^ V!

G / ! =) C * ! E = ! B (F ! 2 + ? C * / + 2 ! (/ C ! B (F & *) 2 ! + = ! < (Z ; < ; [* ! + D * ;) ! * < = + ; = / (B !
 F * B B / * 2 2 0 ! + D * & ! E ;) 2 + ! < ? 2 + ! (9 0 / = F B * C T * ! + = ! + D * < 2 * B H * 2 ! + D (+ ! 9 D (B B * / T ; / T !
 * < = + ; = / 2 ! () * ! (! 9 = < M B * + * B & ! / =) < (B ! (2 M * 9 + ! = E ! + D * ! D ? < (/ ! 9 = / C ; + ; = - ! g D * & ! < ? 2 + !
 9 = / 2 9 ; = ? 2 B & ! (+ * < M + ! + = ! (% G) * / . % ! + D * ! 9 = / C ; + ; = / * C 0 ! E (B 2 * ! 8 * B ; * E ! + D (+ !
 * Z M *) ; * / 9 ; / T ! 9 D (B B * / T ; / T ! * < = + ; = / 2 ! ; 2 ! (/ ! ; / C ; 9 (+ =) ! = E ! = / * ^ 2 ! ; / D *) * / + !
 F * (O / * 2 2 0 ! ; / (C * 3 ? (9 & 0 ! =) ! C * E * 9 + ; H * / * 2 2 - ! ! , / C ! + D * & ! < ? 2 + ! 9 = / 2 9 ; = ? 2 B & ! I \$ 5) / - * "
 + D ; 2 ! 9 = / C ; + ; = / * C 0 ! E (B 2 * ! 8 * B ; * E ! 8 & ! = M * / B & ! C ; 2 9 B = 2 ; / T ! + D * ;) ! 9 D (B B * / T ; / T ! * < = + ; = / 2 !
 + = ! M * = M B * ! + D * & ! +) ? 2 + - ! ! h / B & ! ; E ! + D * & ! C * B ; 8 *) (+ * B & ! (/ C ! 9 = / 2 ; 2 + * / + B & ! (+ * < M + ! + = !
 8) * (O ! + D ; 2 ! C * * M B & ! ; / T) (; / * C ! 8 * B ; * E ! 9 (/ ! + D * & ! 2 + () + ! + = ! *) = C * ! ; + 2 ! M = F *) E ? B !
 9 D = O * D = B C ! = H *) ! + D * ;) ! M 2 & 9 D * - !

G / ! (C C ; + ; = / ! + = ! / =) < (B ; [; / T ! 9 D (B B * / T ; / T ! D ? < (/ ! * < = + ; = / 2 0 ! F * ! 9 (/ ! (M M B & ! (!

"#UWm!

, ? 9VG # B, = ? @ W!

" " W!

* < = + ; = / - ! ! gD*! < =) * ! & = ? ! 2 ; < MB & ! * ZM*) ; * / 9 * ! + D * ! 2 = < (+ ; 9 ! * EE * 9 + 2 ! = E ! + D * !
* < = + ; = / 0 ! (/ C ! + D * ! B * 22 ! & = ? ! ; / + * BB * 9 + ? (BB & ! + = ; B ! F ; + D ! (/ C ! H ; B ; E & ! + D * ! * < = + ; = / 0 ! + D * !
< =) * ! + D * ! * < = + ; = / ! F ; BB ! E (C * - !

gD*!c 1 < M+&!AD(;d!+*9D/;3?;*!;2!/=/*!E!+D*!B=C*2+(!)*9D/;3?;*2!E! . *2+(B+!
gD*)(M&0!FD*)*8&!&=?!; < (T; / * ! + D * ! C ; EE ; 9 ? B + ! * < = + ; = / ! 2 ; + ; / T ! ; / ! (! 9 D (;) ! (9) = 22 !
E) = < ! & = ? 0 ! (/ C ! & = ? ! D (H * ! (! 8 (9 0 I (/ C I E =) + D ! 9 = / H *) 2 (+ ; = / ! F ; + D ! + D * ! * < = + ; = / 0 ! + = !
8 * + *) ! ? / C *) 2 + (/ C ! F D (+ ! ; + ! ; 2 ! C = ; / T ! + D *) * 0 ! (/ C ! F D (+ ! ; + 2 ! M ?) M = 2 * ! ; 2 - ! ! 7 * 2 * (9 D !
) * H * (B 2 ! + D (+ ! D ; 2 ! + * 9 D / ; 3 ? * ! E =) ! C ;) * 9 + B & ! * / T (T ; / T ! + D * ! 9 D (BB * / T ; / T ! * < = + ; = / !
 = E + * / ! 9 (? 2 * 2 ! (! < (+ *) ; (B !) * C ? 9 + ; = / ! ; / ! + D * ! ; / + * / 2 ; + & ! = E ! + D * ! * < = + ; = / 0 ! =) ! / * F !
 (F () * / * 22 ! + D (+ ! ; < M) = H * ! = / * 2 ! = H *) (BB ! * < = + ; = / (B ! 2 + (+ * - 1 - !

!!gD*!O*!&9=9B?2;=9D*!;2!+D(+;E!F*!F(/+!+!<(Z;<[!*=?)!*<=+;=(B!
F*BB/*22!P(C!=?)!MD&2;=B=T;9(BB&B;/O*C!9=T/;+;H*!E?/9+;=;/TR0!F*!<?2!
9=9/29;=?2B&!)*Y*9+!+D*(/+;3?(+*C!(/C!C(/T*)=?2!cC*/&!(/C!2?MM)*22d!<*+D=C!
=E!C*(B;/T!F;+D!9D(BB*/T;/T!*<=+;=20!(/C!;/2+*(C!+)(/2M(C)*/+B&!E(9*!(/C!
/T(T!+D=2*!*<=+;=2-!!j*!<?2!8*E);*/C!=?)!9D(BB*/T;/T!*<=+;=2!8&!
2**;/T!+D* < ! F ; + D ! 9 B () ; + & 0 ! 2 M * (O ; / T ! (8 = ? ! + D * < 0 ! (/ C ! C ;) * 9 + B & ! F =) O ; / T ! F ; + D !
+ D * < - 1 \$!! h + D *) F ; 2 * 0 ! + D * & ! F ; BB ! B ?) O ! ; / ! = ?) ! ? / 9 = / 2 9 ; = ? 2 ! (/ C ! 9 (? 2 * ! ? 2 ! E () ! T * (+ *) !
M (; / 0 ! (/ C ! 9 = T / ; + ; H * ! ; < M (;) < * / + ! ! : = ! ; / ! =) C *) ! + = ! * / D (/ 9 * ! = ?) ! * < = + ; = / (B ! (/ C !
9 = T / ; + ; H * ! E ? / 9 + ; = ; / T 0 ! F * ! < ? 2 ! E (9 * ! (/ C ! 8 * E) ; * / C ! = ?) ! < = 2 + ! 9 D (BB * / T ; / T !
* < = + ; = / 2 - !

P_R!% 1 Q , f Gh 7!

G/! (CC;+;= / ! + = ! + D * ! (8 = H * I < * / + ; = / * C ! \$ % - * . % /) ! 1 B * < * / + 2 0 ! = ?) ! * Y - * . % /) !
8 * D (H ; =) ! ; 2 ! (B 2 = ! 9) ; + ; 9 (B ! + = ! = ?) ! : * B E I 4 (2 + *) & - ! ! @ / B ; O * ! = ?) ! + D = ? T D + 2 ! =) !
M *) 2 M * 9 + ; H * 2 0 ! =) ! 2 * / 2 * ! = E ! M ?) M = 2 * 0 ! F D ; 9 D !) * 2 ; C * ! F ; + D ; / ! ? 2 ! (/ C ! () * ! T * / *) (BB & !
 ; / H ; 2 ; 8 B * ! + = ! = ? + 2 ; C *) 2 0 ! = ?) ! 8 * D (H ; =) ! ; 2 !) * E B * 9 + * C ! * Z + *) / (BB & ! (/ C ! 9 (/ ! 8 * !
 = 8 2 *) H * C ! E) = < ! + D * ! = ? + 2 ; C * - ! ! 4 (/ & ! = E ! + D * ! * Z + *) / (B ! (9 + ; = / 2 ! F * ! + (O * ! n ! (B + D = ? T D !
 * / X = & (8 B * ! =) ! 2 (+ ; 2 E & ; / T ! ; / ! + D * ! < = < * / + ! n ! ? / C *) < ; * ! = ?) ! * < = + ; = / (B ! (/ C !
 9 = T / ; + ; H * ! F * BB / * 22 - ! ! g D * & ! ; / 9) * (2 * ! = ?) ! 2 + * 2 2 0 ! E (+ ; T ? * 0 ! (/ C ! C ; 2 +) (9 + ; 8 ; B ; + & 0 ! & * + !
 F * ! ; < M ? B 2 ; H * B & ! + (O * ! + D * 2 * ! (9 + ; = / 2 ! (/ C ! + D * ! / E * * B ! + D * ! * E E * 9 + 2 ! (E + *) F (C 2 - ! ! G E ! F * !

!

"S#! , ; < = 7 > ? , = ? @ A "9B > "@ ? CD ? > ! ef = B ! ^ V !

C = ! / = + ! < (O * ! + D * 2 * ! C * 9 ; 2 ; = / 2 ! M ?) M = 2 * E ? B B & ! (/ C ! 9 = / 2 ; 2 + * / + B & ! F ; + D ! 2 9 ; * / 9 * 0 ! = ?) ! * < = + ; = / 2 ! (/ C ! 9 = T / ; + ; = / ! F ; B B ! 2 ? E E *) - !

g F = ! * Z (< M B * 2 ! = E ! (9 + ; = / 2 P = ? + ! = E ! < (/ & R ! + D (+ ! C ;) * 9 + B & ! (E E * 9 + ! = ?) ! * < = + ; = / (B ! F * B B / * 2 2 ! (/ C ! 9 = T / ; + ; H * ! M *) E =) < (/ 9 * ! () * ! D = F ! F * ! 2 M * / C ! 2 D =) + ! 8) * (O 2 ! (/ C ! D = F ! F * ! ? 2 * ! = ?) ! 2 < () + ! M D = / * 2 - !

75 : "> *", 8 % & ", F5 . - " O . * / 4 + "

: (& ! & = ? ! E ; / ; 2 D ! = / * ! 9 = T / ; + ; H * ! + (2 O ! (/ C ! C * 9 ; C * ! & = ? ! F ; B B ! + (O * ! (! U J I < ; / ? + * ! 8) * (O ! 8 * E =) * ! 2 + () + ; / T ! + D * ! / * Z + ! + (2 O - ! ! G E ! & = ? ! () * ! B ; O * ! < = 2 + ! ; / C ; H ; C ? (B 2 O ! & = ? ! F ; B B ! B ; O * B & ! 2 M * / C ! + D = 2 * ! U] ! < ; / ? + * 2 ! C = ; / T ! = / * 0 ! =) ! 2 = < * 0 ! = E ! + D * ! E = B B = F ; / T ! (9 + ; H ; + ; * 2 a ! F * 8 ! 8) = F 2 ; / T 0 ! 2 = 9 ; (B ! < * C ; (O ! M *) 2 = / (B ! < (; B 0 ! + * Z + ; / T 0 ! =) ! 2 = 9 ; (B ; [; / T ! = / ! + D * ! M D = / * ! =) ! ; / I M *) 2 = / - ! ! , E + *) * / X = & ; / T ! & = ?) 2 * B E ! E =) ! + D = 2 * ! U] ! < ; / ? + * 2 0 ! & = ? ! F ; B B ! M) = < M + B & !) * + ?) / ! + ! & = ?) ! F =) O ! (/ C ! / = + ; 9 * ! (! H *) & ! C ; 2 + ?) 8 ; / T ! + D ; / T ! = 9 9 ?) 2 a ! & = ? ! () * ! * Z D (? 2 + * C ! (/ C ! 9 (/ / = + ! 9 = / 9 * / +) (+ * w ! ! g D ; 2 ! ; 2 ! 2 = < * + D ; / T ! F * ! (B B ! * Z M *) ; * / 9 * a ! F * ! + (O * ! (! 8) * (O ! E) = < ! F =) O ! ; / ! =) C *) ! + = !) * 2 + ! (/ C !) * X ? H * / (+ * 0 ! (/ C ! + D * ! / F D * ! / F * !) * + ?) / ! + = ! = ?) ! F =) O 0 ! F * ! / = + ; 9 * ! = ?) ! 8) (; / 2 ! () * ! * Z D (? 2 + * C ! (/ C ! F * ! E * * B ! / = ! < =) * !) * X ? H * / (+ * C ! + D (/ ! F * ! E * B + ! (+ ! D * ! = ? + 2 * + ! = E ! + D * ! 8) * (O - ! ! j D & ! ; 2 ! + D ; 2 o ! ! % * 9 (? 2 * ! + D * ! H (2 + ! < (X =) ; + & ! = E ! (9 + ; H ; + ; * 2 ! F * ! * / T (T * ! ; / ! C ?) ; / T ! = ?) ! 8) * (O 2 ! n ! ; / 9 B ? C ; / T ! * (9 D ! = E ! + D * ! (9 + ; H ; + ; * 2 B ; 2 + * C ! (8 = H * ! n ! ; / H = B H * 2 ! / * () B & ! ; C * / + ; 9 (B ! / * ?) = B = T ; 9 (B ! 8 * D (H ; =) ! (2 ! + D * ! F =) O ! ; + 2 * B E - ! ! i = ? ! 2 * * 0 ! F D * ! / F * ! * / T (T * ! ; / ! (/ & ! = E ! + D * ! (8 = H * ! (9 + ; H ; + ; * 2 ! C ?) ; / T ! = ?) ! 8) * (O 0 ! = ?) ! 8) (; / ! ; 2 ! F =) O ; / T ! + ;) * B * 2 2 B & ! (/ C ! * / T (T ; / T ! ; / ! H ;) + ? (B B & ! (B B ! = E ! + D * ! 2 (< * ! / * ?) = B = T ; 9 (B ! E ? / 9 + ; = / 2 ! ; + ! * / T (T * 2 ! ; / ! F D ; B * ! (9 + ? (B B & ! F =) O ; / T - ! V !

!

!] V - ! J =) * Z (< M B * 0 ! F D * ! / & = ? !) * (C ! (/ ! ; / + *) / * + ! () + ; 9 B * ! = / ! & = ?) ! E (H =) ; + * ! M = B ; + ; 9 (B ! =) ! 2 M =) + 2 ! F * 8 2 ; + * 0 ! & = ?) ! 8) (; / ! ; 2 ! E =) 9 * C ! + = ! * / T (T * ! ; / !) * (C ; / T ! 9 = < M) * D * / 2 ; = / 0 ! / * F ! < * < =) & ! E =) < (+ ; = / ! P F D ; 9 D ! = 9 9 ?) 2 !

"#UWm!

, ? 9VG # B, = ? @ W!

"SU!

7 (+D*)! +D(/! */T(T;/T! ;/! / *?)=B=T;9(BB&! 9D(BB*/T;/T! +(202! C?);/T! =?)! 2D=)+! 8)*(O20! ;+! ;2! ;<M=)+(/! +D(+! F*! */T(T*! ;/! / *?)=B=T;9(BB&!)*X?H*/ (+;/T! +(202-!! , /C! FD(+!)*)! +D*2*o!! gD*&! ()! *! MB*/ +;E?B0! 8?+!*22*/ +; (BB&! (/ &! (9+;H;+&! +D(+! ;/H=BBH*2! M);< ();B&!);TD+! D* <;2MD*)*! (9+;H(+;=/0! 2?9D! (2! ()+0! <?2;90! <*C;+(+;=/0! 2M(+; (B! M)=9*22;/T0! M?)M=2*E?B! C(&IC)* (< ;/T0! =))! ;TD+I8)(;/! (9+;H(+;=/*Z*)9;2*2-^{1W}!!%&! ;/+* / +;= / (BB&! ? /MB?TT;/T!E)=<! +D*! cB (/T? (T*! (/C! B=T;9d!9*/+*)!=E!+D*!8)(;/!C?);/T!=?)!2D=)+!8)*(O20! F*!9(/!+D* /!) *+?) /! +=! =?)! F=)O! F;+D!) *X?H* / (+*C! E=9?20! (+* / +;= /0! (/C! 8)(;/M=F*)-! ! h?)!

"#UWm!

, ? 9VG # B, = ? @ W!

"SS!

(/C! M)=+*9+! +D*! ;/+*T);+&! =E! +D*! 2+?C&0! +D*!)*2*(9D*)2! ;/E=<*C! +D*!
M(+;9;M(/+2!+D*&!2D=?BC!O**M!+D*;)!2<()+!MD=/*!=/+!D*!C*2O!E=)+D*!E;)2+!2*+!
=E!+(202!8*9(?2*!C?);/T!+D(+!2*+!+D*&!<(&!8*(20*C!3?2+;=/2!(8=?+!C*+(!;B2!E!
+D*;)!2<()+!MD=/*-!! i *+!+D*&!F*)*!;/2+)?9+C!+=!2+=F!(F(&!+D*;)!2<()+!MD=/*!
E=)+D*!=+D*)!2*+!E!+(202!8*9(?2*!+D*&!F=?BC!/+=!/*C!+D*;)!2<()+!MD=/*-!
j D*/! +D*! 2?8X*9+2^! 2<()+! MD=/*2! F*)*! 2+=F*C! =?+! =E! H;2;8;B;+&0! +D*&!
M*)E=<*C!(/!(H*)(T*!=E!^_k` a "H*-.*.

"S^!

, ; <=7> ? , = ? @ A "9B > " @ ? CD ? > !

"#UWm!

, ? 9VG # B , = ? @ W!

"S]!

&*+!+D*&!()*!/+!*(2&!+=!9=2;2+*/+B&!B;H*!8&!FD*!/;/+*/2;+&!8)*F2!;/!=?!)
)*B(+;=2D;M2-!!4(O;/T!+D* <!M(+)=E!=?)!C(;B&!M)(9+;9*!+(O*2!+;< *0!C*H=+;=0!
(/C!*EE=)+!

g==B2!=E! , 29*/C*C!>;2+*/;/T!;/9B?C*!P;R!B;2+*/;/T!F;+D=?+!;/+*)?M+;=N!
P;;R!B;2+*/;/T!+=!/?/C*)2+(/C!)(+D*)!+D(/!+=!)*8?+NP;;;R!B;2+*/;/T!E=)!9=<<=/(B;+&!)
(+D*)!C;22=/(/9*N!P;HR!2**O;/T!+=!/?/C*)2+(/C!E;)2+(/C!8*!/?/C*)2+==C!2*9=CN!
(/C!PHR!(20;/T!=M*/I*/C*C!3?*2+;=2/(2!M(+)=E!&=?)!B;2+*/;/T-!

J=)!*Z(<MB*0!&=?!<(&!/+;9*!+D(+!FD*!/!&=?!()*!;/!9=EB;9+!F;+D!2=<*=/!*
(/C!D*!2(&2!2=<*+D;/T!&=?!9=<MB*+*B&!C;2(T)**!F;+D!)=!C;2B;0*0!&=?)!H*)&!
/*Z+!2+(+* < */+!;2!D;TDB&!?/B;O*B&!+=!8*!(/!=M*/I<;/C*C!3?*2+;=-/!!Pc j D(+!+D*!
D*BB!;2!F)=/T!F;+D!&=?owd!C=*2!/+!3?(B;E&!2!(/!=M*/I<;/C*C!3?*2+;=0!8&!
+D*!F(&-R!!g&M;9(BB&0!+D*!<=)*!F*!C;2B;0*!)=!C;2(T)**!F;+D!(!2+(+* < */+0!+D*!
B*22!B;O*B&!F*!()*!+=!(20!(/!=M*/I<;/C*C!3?*2+;=-/!!gD*!M)=8B* <!;2!+D(+!2!
9=EB;9+!2(+)+2!+=!;/+*/2;E&0!8=+D!M(+);*2!2+=M!(20;/T!3?*2+;=2!(/C!2(+!+)(C;/T!
;/9)*(2;/Tb&!;/+*/2*!M)=9B(<(+;=20!FD;9D! =/B&! (CC2!E?*B! +=! +D*!T)=F;/T!
;/+*/2;+&-!!gD*!M=F*)!E! = /*M*)2= /!M?BB;/T!8(900!)*2;2+;/T!+D*!?)T*!+=!*ZM)*22!
(/!=M;/;/=0!(/C!;/2+*(C!(20;/T!(/!=M*/I*/C*C!3?*2+;=!/;2!+)(/2E=<(+;H*-^W!
b=+D;/T! 2+=M2! 9=EB;9+! ;/! ;+2! +)(90! <=)*! 3?;90B&! +D(/! (/! =M*/I<;/C*C!
3?*2+;=-/!!G+!D*BM2!+D*!+=D*)!M*)2= /!E**B! ?/C*)2+==C!(/C!9()*C!E=0!) *C?9*2!
+D*;)! C*E*/2;H*/ *22! (/C! (TT)*22;=0! (/C! +*/C2! +=! C**29(B(+*! +D*! 2;+? (+;=!

"S_! , ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > ! e f = B - ! ^ V !

+* (<2!E=)!+D*!E;)2+!+; <*0! F*! F=?BC!D(H*!+D* <!M;90! (!+*(<!/ (<*0!+(O*!+D*);!
=F/!(++*/C(/9*0!2*P*9+! (!+*(<!B*(C*)!E=)! *(9D! 9B(22! ;/! +D*! 2* <*2+*)0! (/C!
(/2F*)!+D*!D*()+I9*/+*)*C!C;29?22;= /!3?*2+;= /!cFD(+!;2! (/! ;<M=) (+/! *H*/+!
; /!&=?)!B;E*!n* ;+D*)!=E!2+)?TTB*!(-)!) ;? <MD!n!+D(+!D(2!D*BM*C!2D(M*!+D*!M*)2= /!
&=?!()*)!+=C(&od!

j *! F*)*! 8=+D! * /+D?2*C0! 9D**E?B0! (/C! ;/! E?BB! (B;T/ <*/+! (8=?+! +D;2!
?M9=< ;/T!9B(220! ? /+;B!F*)*(B;[*C!F*!D(C!9=<MB*+*B&!C;EE*)*/+!n!(/C!2+)=/TB&!
D*BC!n!H; *F2! = /!+D*!5. &* " =E!+D; /T2-!!L)=E*22=)! ; <= /!+D=?TD+! ;+!F (2! =8H;=?2!
+D(+! +D*! +* (<2! 2D=?BC! 2+)+! 8&! (CC)*22; /T! +D*! +D)**! B=T; 2+; 9(B! ;22?*2! P+* (<!
/ (<*0! (+*/C(/9*0! (/C! +* (<!B*(C*)R0! (/C! -F*%" 8*T; /! +D*! T)=?M! C;29?22;= /!
3?*2+;= /-!!L)=E*22=)! .)** /! +D=?TD+! ;+! F (2! *3? (BB&! =8H;=?2! +D(+! +D*! +* (<2!
2D=?BC! 2+)+! F ;+D! +D*! T)=?M! C;29?22;= /!3?*2+;= /! (/C! -F*%" F=)O! +D)=?TD! +D*!
B=T; 2+; 9(B! ;22?*2-!! j *! F*)*! * (9D!H*)&!9B*()!+D(+! =?)!M*)2M*9+;H*! F (2! 8*+*)0!
(/C!F*! < (C*!+D;2!O/=F /!+D*!+D*!+D*)!M*)2= /-!!Pb * ;+D*)!=E! ?2!2?EE*)2!E)= <! (!
B(90! =E!9= /E; C* /9*! =)!M*)2? (2;= /!2O;BB2-R!! , 2! F*! 2+)+*C!c8?+; /T!D*(C2d! (/C!
+)& /T! +=!9= /H; /9*! +D*! =+D*)!M*)2= /!+D*! ; /+* /2; +&! 8*T (/! +=!8? ;BC-!! j *! 9=?BC!
E**B! +D(+! +D; /T2! F*)*! *29(B(+; /T! 3? ;9OB&! (/C! T=; /T! ; /! +D*! F)=/T! C; *9+; = /-!
: ?CC* /B&0! F*! C*9; C* C! =!M(?2*! +D*! 9= /H; /9; /T! (/C! 2+*M! (F (&!E)= <!c); TD+! (/C!
F)=/T! d! (/C! ; /2+* (C!C; T! ; /+D! FD(+! =?)! (%&* .)J\$%O" I /) (*+! = /! +D*! ; 22?*! F*)*! -!

L)=E*22=)! ; <= /!2D()*C!+D(+! +D*! ? /C*)B&; /T! H(B?*! C); H; /T! D*)! M=2; +; = /!
F (2! +D*! H(B?*! =E! E(9; B; +(+; /T! * I 5-\$5% /) " \$%- \$ I /6J" /%&" I ()%* . /H\$) \$-J

"#UWm!

, ?9VG#B, =?@W!

"S\$!

"SV! , ; <= 7 > ? , = ? @ A " 9 B > " @ ? C D ? > ! ef = B - ! ^ V !

*EE*9+! = / ! B (F ! 2+ ? C * / + ! F * B B I 8 * ; / T d - S S ! ! j * ! F *) * ! D = / =) * C ! + = !) * 9 * ; H * ! + D ; 2 ! ; < M =) + (/ + !) * 9 = T / ; + ; = / - S ^ !

g D * ! # \$ % & ' () % * + + ! " , - . * + + # / % / O * I * % - ! " / % & " 3 * / 4 " 3 * . ' 5 . 1 / % 6 * ! 3 . 5 0 . / I ! M) = H ; C * 2 ! 2 + ? C * / + 2 ! F ; + D ! 2 * B E I < (2 + *) & ! + = = B 2 0 ! + * 9 D / ; 3 ? * 2 0 ! (/ C ! M) (9 + ; 9 * 2 ! E =) ! 9 = M ; / T ! F ; + D ! + D * ! 2 +) * 2 2 =) 2 ! (/ C ! * < = + ; = / (B ! C ; E E ; 9 ? B + ; * 2 ! + D (+ ! ; / * H ; + (8 B & ! () ; 2 * ! ; / ! B (F ! 2 9 D = = B - ! ! g D * ! M) = T) (< ! (B 2 = ! M) = H ; C * 2 ! 2 + ? C * / + 2 ! F ; + D ! (! 9 = B B * 9 + ; = / ! = E ! 2 9 ; * / 9 * I 8 (2 * C ! + * 9 D / ; 3 ? * 2 ! E =) ! = M + ; < ; [; / T ! + D * ;) ! 9 = T / ; + ; H * ! E ? / 9 + ; = / ; / T ! (/ C ! (9 (C * < ; 9 ! 2 ? 9 9 * 2 2 ! ; / ! B (F ! 2 9 D = = B 0 ! (/ C ! 8 * & = / C - ! ! j * ! D (H * ! * Z M (/ C * C ! + D * ! 2 * B E I < (2 + *) & ! = E E *) ; / T 2 ! + D ; 2 ! & * (! 8 & ! M) = H ; C ; / T ! % () ! L * (O ! L *) E =) < (/ 9 * ! M) = T) (< < ; / T ! (+ ! @ : A ! . = ? B C ! : 9 D = = B ! = E ! > (F 0 ! @ A ! Q (2 + ; / T 2 0 ! (/ C ! = + D *) ! B (F ! 2 9 D = = B 2 - S 1 ! ! j * ! (B 2 = ! + * (9 D ! (! : * B E I 4 (2 + *) & ! * B * 9 + ; H * ! 9 = ?) 2 * ! (+ ! @ A ! G) H ; / * ! > (F ! : 9 D = = B - !

h ?) ! M) = T) (< 2 ! D (H * ! (2 2 ; 2 + * C ! D ? / C) * C 2 ! = E ! 2 + ? C * / + 2 ! + D ? 2 ! E () 0 ! ; / ! U > ! " > ! S > ! M) = T) (< 2 ! (/ C ! ; / ! + D * ! 8 () ! M) * M () (+ ; = / ! M) = 9 * 2 2 0 ! ; / ! C * H * B = M ; / T ! (! < (2 + *) & ! = E ! + D * ! B (F ! 8 & ! D * B M ; / T ! + = ! * B ; < ; / (+ * ! 2 +) * 2 2 ! 8 () ; *) 2 ! (/ C ! < (Z ; < ; [* ! + D * ;) ! 9 = T / ; + ; H * ! M *) E =) < (/ 9 * - ! ! : + ? C * / + 2 ! D (H * ! F ; C * B & !) * M =) + * C ! + D (+ ! + D * ! + = = B 2 ! + D * & ! D (H * ! B * () / * C ! D (H * ! D * B M * C ! + D * < ! C * H * B = M ! (! < (2 + *) & ! = E ! + D * < 2 * B H * 2 0 ! 8 = + D * * < = + ; = / (B B & ! (/ C ! 9 = T / ; + ; H * B & ! P + D * ! O * & ! 2 * B E I ! < (/ (T * < * / + ! B * (C *) 2 D ; M I * Z * 9 ? + ; H * ! + = = B 2 ! C * 2 9) ; 8 * C ! 8 & ! C * 2 ; T / ! (8 = H * R - ! ! , 2 ! (!) * 2 ? B + 0 ! + D * ! 2 + ? C * / + 2 ! F D = ! D (H * ! M () + ; 9 ; M (+ * C ! ; / ! + D * ! 3 * / 4 " 3 * . ' 5 . 1 / % 6 * " 3 . 5 0 . / I ! D (H * ! * Z M *) ; * / 9 * C ! T) * (+ *) ! X = & ! (/ C ! D (M M ; / * 2 2 0 ! B * 2 2 ! (/ Z ; * + & ! (/ C ! 2 +) * 2 2 0 ! (/ C ! D (H * ! T (; / * C ! M * (O ! M *) E =

"#UWm!

"^#! , ; <= 7 > ? , = ? @ " 9 B > " @ ? C D ? > ! ef = B - ! ^ V !

f -! A h b A > @ : G h b !

g * (9 D ; / T ! 2 * B E I < (2 + *) & ! ; / ! B (F ! 2 9 D = = B ! ; 2 ! (! O * & ! + = ! = ?) ! 2 + ? C * / + 2 ^ ! (9 (C * < ; 9 ! 2 ? 9 9 * 2 2 0 ! * < = + ; = / (B ! F * B B / * 2 2 0 ! (/ C ! 8 () ! M (2 2 (T * - ! : * B E I < (2 + *) & ! M) = T) (< 2 ! E =) ! B (F ! E ;) < 2 ! (/ C ! 8 () ! (2 2 = 9 ; (+ ; = / 2 ! () * ! (! O * & ! + = ! (+ =) / * & ! D (M M ; / * 2 2 0 ! M) = C ? 9 + ; H ; + & 0 ! (/ C ! ; / 9) * (2 ; / T ! 2 ? 9 9 * 2 2 ! (/ C ! F * B B / * 2 2 ! ; / ! + D * ! B * T (B ! ; / C ? 2 +) & - ! ! g D *) * E =) * 0 ! (B B ! B (F ! 2 9 D = = B 2 ! (/ C ! B (F ! E ;) < 2 ! C * C ; 9 (+ * C ! + = ! M) = C ? 9 ; / T ! D (M M ; *) ! (/ C ! < =) * ! M) = C ? 9 + ; H * ! B (F & *) 2 ! 2 D = ? B C ! ; < M B * < * / + ! M) = T) (< 2 ! (/ C ! =) ! 9 = ?) 2 * 2 ! + D (+ ! + * (9 D ! + D * 2 * ! 2 * B E I < (2 + *) & ! M) ; / 9 ; M B * 2 ! ; / ! (! 9 = < M) * D * / 2 ; H * 0 ! ; / + *) C ; 2 9 ; M B ; / () & 0 ! (/ C ! 2 = M D ; 2 + ; 9 (+ * C ! E (2 D ; = / ! + = ! + D * ;) ! B (F ! 2 + ? C * / + 2 ! (/ C ! B (F & *) 2 - ! ! g D * !) * 2 ? B + ! F ; B B ! 8 * ! (! B * T (B ! ; / C ? 2 +) & ! + D (+ ! ; 2 ! E () ! D * (B + D ; *) 0 ! D (M M ; *) 0 ! (/ C ! 8 * + *) ! E ? / 9 + ; = / ; / T - !
!

!

9 / (% 6 F * + " 3) * & O * " S / I 8 / \$ O % " - 5 " D I 8 . 5 I * " # * % - / " 7 * / - F " / % & " > *) G O * \$ % O " 5 " 9 / : J * . + 0 ! , % , ! P : * M + ! U # 0 !
" # U V R 0 ! D + M 2 a l l F F F - (< *) ; 9 (/ 8 () =) T I / * F 2 I (8 (/ * F 2 I (8 (I / * F 2 I () 9 D ; H * 2 1 " # U V I # W I (8 (I B (? / 9 D * 2 I
M B * C T * I 9 (< M (; T / I + I ; < M) = H * I < * / + (B I D * (B + D I (/ C I F * B B I 8 ! - !