



[CC84YY8\*\$=[&>&`\$9@c&>B(&9B(@Y\* [&X8#`B9#\*8d' #Be7///9!a#=[!BN#%!X<>!=&GB;!3!  
C&!6!=[#8CB;\*!P;&%!C[B!J&&L!#' (C[B!=&;;B\*8&' (<' `!>B=C@;B\*9!-&@!X<>![#GB!W!(#\$\*!C&!  
=&%8>BCB!B#=[!BN#%!O#CB!BN#%\*!X<>!;B\*@>C!<' !#!>&\*\*!&P!W/f !P&;!]

i /f!	j <GB!aN#%*!	!
	j <' #>!	!
. 6f!	H&%BX&;L!	b@<ccB*Q8&*C! G<(B&Y* <%@>#C<&'! M@B*C<&' *Q;B*B#;=[! 8#;C<=<8#C<&' Q#' \$!C[<' `!! B>*B!##**<' B(!<'! Z\$+*\$=[O#J!
3f!	V; <C' `!##* <' %B' C!	!
3f!	?CCB' (#' =B!	!

!

1+2") (\*: ; 3'237#+\$\*1"#7("#3\*

?!e!1W97!0!. //f!  
 ?0!e!1/!0!1W961f!  
 \k!e!i | 97!0!i | 1911f!  
 \!e!i W97!0!i | 961f!  
 \0!e!i /!0!i W961f!  
 Ak!e!i | 97!0!i | 1911f!  
 A!e!i W97!0!i | 961f!  
 A0!e!i /!0!i W961f!  
 : k!e!i | 97!0!i | 1911f!  
 : !e!i W97!0!i | 961f!  
 : 0!e!i /!0!i W961f!  
 j!e!7191f !# ' (!JB>&X!  
 !  
 !

4(\$737#; (\*E%. (@2' (\*

2[B!P&>&X<' `!\*=[B(@B!<\*!#!CB' C#C<GB!8>#' !P&;!C[<\*!&@; \*B9!2[B!(#CB\*!#' (IC<9%B\*!  
 #;B!&8B' !C&![# ' `B!(B8B' (B' C!&' !8#>B!&PIC[B!&@; \*B9!?' \$!=[# ' `B\*!X>>!JB!# ' ' &@' =B(!  
 <' !=#\*\*9!?' `; # (B(!##\* <' %B' C!&; !BN#%!X>>! BGB; !JB!(@B!\*&&' B; !C[# ' !C[B!(#CB!  
 8; &8&\*B(!&' !C[B!\*=[B(@>B9! " B# (<' `\*!># ' !JB!##\* <' B(!\* &&' B; !C[# ' !C[B!\*=[B(@>B9! ?>>!  
 [&%BX&;L!##\* <' %B' C\*!# ' (!@B!(#CB\*!X>>!JB!C; #>LB(!@\* <' `!Z\$+\*\$=[O#J9!  
 !

C((B*	D3-*	D37(*	4+&#%*	F(3@#\$/)*	: A35*
. !	2!	?@`!W1!	] ' C; &(@=C<&' Y, \$>#J@*!	!	?@`!W1!!
	"!	?@`!Wi!	, =B' C?<=!2[<' L<' `!	A[!. !	+; BCB*C!
W!	2!	, B8!W!	" B*B#; = [ZBC[&(*!	A[!W!	!
	"!	, B8!6!	\<&>&` <=#!+*\$=[&>&` \$!	A[!3!	!
3!	2!	, B8!1!	\<&>&` <=#!+*\$=[&>&` \$!D=&' C9E!	!	!
	"!	, B8!..!	, B' *#C<&' !# ' (!+B; =B8C<&' !	A[!6!	!
6!	2!	, B8!. !!	aN#%!5!T&!A>##**!	!	, B8!. !!
	"!	, B8!. i!	A&' *=<@* ' B**!	A[!7!	A[!. 06!
7!	2!	, B8!W3!			

	"!	, B8!W7!	OB#; ' < ' `!	A[!! !	!
I!	2!	, B8!3/!	OB#; ' < ' `!D=&' C9E!	!	!
	"!	R=C!W!	ZB%&; \$!	A[!! !	R=C!I !! V; < < ' `! ? ** < ' %B' C!
I!	2!	R=C!I!	ZB%&; \$!D=&' C9E!	!	R=C!1!
	"!	R=C!1!	aN#%!5!T&!A>#**!	!	A[!70I!
i!	2!	R=C!. 6!	j #>!\; B#L!5!T&!A>#**!	!	!
	"!	R=C!. I!	2[<' L<' `Q" B#*&' <' `Q# ' (! 0# ' `@#` B!	A[!i !	

!  
!

E72@(\$7)\* <#7. \*D#)3>#'#7#()\*

" B#\*&' #J>B!#==&%%& (#C<&' \*!X<>!)B!%# (B!P&;!#' \$&' B!X<C[!#!(<\*#J<C\$!C[#C!  
%# \$!; BM@<; B!\*&%B!%& (<P<=#C<&' !&P!\*B#C<' `QCB\*C<' `Q&; !&C[B;!=>#\*\*!; BM@<; B%B' C\*9!  
, C@ (B' C\*!%@\*C! =&' C# =C!C [B!RPP<=B!&P! ?==&%%& (#C<&' \*!D" &=LBC!H#>!. i W/E!P&; !#' !  
BG#>@#C<&' !#' (!#!P&; %!\*8B=<P\$<' `!X[#C! =&@; \*B!#==&%%& (#C<&' \*!#; B!h@(` B(!  
; B#\*&' #J>B!P&; !C[#C!\*C@ (B' C9! +>B#\*B! =&' C# =C!C [B!<' \*C; @=C&; !#PCB; !=>#\*\*!&; !(@; <' `!&PP<=B!  
[&@; \*!\*&!C[#C!#88; &8; <#CB!#; ; #' `B%B' C\*!%#\$!JB!%# (B9!  
!

2[B! =&' C# =C!<' P&; %C<&' !P&; !C[B!RPP<=B!&P! ?==&%%& (#C<&' \*!<\*!#\*!P&>&X\*4!  
A#%8@\*! ? ( ; B\*\*4!" &=LBC!H#>!. i W/Q!Z#>!, C&8!m36W!  
+ [&' B!T@%JB; 4!6. 1973/961i .!  
VBJ4![[C84YYXXX9@C&>B (&9B (@Y@C>=Y#==B\*\*<J<C\$Y!

!  
!

# ?%3@(5#%\*D#). +\$()7-\*

?=#(B%<!(<\*[&' B\*C\$!X<>!' &C!JB!C&>B;#CB(?!?%&' `!C[B!#<?%!&P!B(@=#C<&' !#;B!  
C[B!#=M@<\*<&' !&P!L' &X>B(` B!#' (! (BGB>&8%B' C!&P!C[B!\*L<>\*'! B=B\*\*#; \$!P&;!\*@==B\*\*!' !  
# '\$!8; &PB\*\*<&' ?!?=C<G<C<B\*!' =&' \*<CB' C!X<C[!C[B\*B!#<?%!X<>!' &C!JB!8B; %<CCB(?!  
, C@ (B' C\*!#; B!; B\*8&' \*<J>B!P&; !L' &X<' `!X[#C!&' \*C<C@CB\*!#=#(B%<!(<\*[&' B\*C\$?!P!  
\*C@ (B' C\*!#; B!@' =B; C#<' !#J&@C!X[#C!&' \*C<C@CB\*!8>#` <#; <\*&!&; !=[B#C<' `!C[B\$!\* [ &@>(C!  
\*BBL!C[B!<' \*C; @=C&; g\*!# (G<=B!aN#%8>B\*!&P!#=#(B%<!(<\*[&' B\*C\$!<' =>@ (B!J@C!#; B!' &C!  
x%<CB (C&4!

- . 9 +>#`<#;<C<' `!&; !; B8; B\*B' C<' `!C[B!X&; (\*!<(B#\*!&; !<' P&; %<#C<&' !&P!#' &C[B; !  
8B; \*&' !#\*!&' Bg\*!&X' !# ( ! &C!&PPB; <' `!8; &8B; !(&=@%B' C#C<&' n!
- W9 o<G<' `!&; !; B=B<G<' `!8; <&; !C&!# ' !BN#%<' #C<&' !# ' \$!@' #@C[&; <CB(!<' P&; %<#C<&' !  
=&' =B; ' <' `!C[B!&= &' CB' C!&P!C[#C!BN#%<' #C<&' n!
- 39 " BPB; ;<' `!C&!&; !(<\*8>#\$<' `!# ' \$!@' #@C[&; <CB(!%#CB; <#>\*!<' \*<(B!&; !&@C\* <(B!&P!C[B!  
BN#%<' #C<&' !; &&%!( @; <' `!C[B!&=@; \*B!&P!#' !BN#%<' #C<&' n!
- 69 A&%%@' <=#C<' `!( @; <' `!# ' !BN#%<' #C<&' !<' !# ' \$!%#' ' B; !X<C[!# ' \$!@' #@C[&; <CB(!  
8B; \*&' !=&' =B; ' <' `!C[B!BN#%<' #C<&' !&; !# ' \$!8#; C!&P!<Cn!
- 79 o<G<' `!&; !; B=B<G<' `!\*@J\*C# ' C<GB!#<C!( @; <' `!C[B!&=@; \*B!&P!#' !BN#%<' #C<&' n!
- l 9 A&%%B' <=' `!# ' !BN#%<' #C<&' !JBP&; B!C[B!\*C<8>#CB (C<%B!&; !=&' C' @' `!C&!  
X&; !L!&' !# ' !BN#%<' #C<&' !#PCB; !C[B!# ' ' &@' =B (!&' =>@\* <&' !&P!C[B!BN#%<' #C<&' !  
8B; <& (n!
- l 9 2#L<' `!&= &' GB; C<' `!&= &' =B#>' `! (BP#<' `! ( #%#`<' `!&; ! (B\*C; &\$<' `!# ' \$!  
8; &8B; C\$!; B>#CB (C&!C[B!8; B8#; #C<&' !&; !=&%8>BC<&' !&P!#\*\*<' ' %B' C\*!; B\*B#; = [!  
&; !BN#%<' #C<&' n!
- i 9 , @J%<C<' `!C[B!\*#%B!X; <CCB' !X&; L!C&!P@>P>>!C[B!; BM@<; B%B' C\*!P&; !%&; B!C[ # ' !  
&' B!&=@; \*B!#  
!

, [ &@>( !=#\*B\*!&P!#=#(B%<!(<\*[&' B\*C\$!JB!P&@' (!#%&' `!\*C@ (B' C\*!C[B!<' \*C; @=C&; !  
%# \$! = [ &&\*B!C&!&@' \*B>!C[B!\*C@ (B' C!& &; !C[B!P&>&X<' `!\*# ' =C<&' \*!%# \$!JB!<%8&\*B (4!

- 2[B!\*C@ (B' C!%#\$!JB!#\*\*<' B (!# ' !j !P&; !C[B!X&; L!<' !M@B\*C<&' ?!
- 2[B!\*C@ (B' C!%#\$!JB!#\*\*<' B (!# ' !j !P&; !C[B!&=@; \*B!#] !C[<\*&#B!C[B!<' \*C; @=C&; !  
\* [ &@>( !<' P&; %<#C<&' B# ' !# ' !C[B!\*C@ (B' C!&P!C[<\*!#<C<&' ?!2[B!; B# ' !X<>!] %<#LB!  
=B; C#<' !C[#C!C[B!\*C@ (B' C!; B=B<GB\*!C[B!j !` ; # (B!# ' (!<' !&C!8B; %<CCB (C&!  
X<C[ ( ; #X!P; &%!C[B!&=@; \*B!#
- 2[B!\*C@ (B' C!%#\$!JB!8>#B ( !&' !8; &J#C<&' !&; !\*@\*8B' (B (!P&; !\*%&B! (BP<' <CB!  
8B; <& (!&P!C<%B! (<\*%<\*B (!&; !BN8B>>B (!J\$!C[B!; B# ' !P!B<C[B; !C[B!\*B; <&@\* B\*\*!&P!  
C[B!&PPB' \*B!&; !#; B=&; (!&P!; B8B#CB (!&PPB' \*B\*!X#; ; # ' C\*!&?!' &C#C<&' !C[#C!\*@= [!  
#!\*# ' =C<&' ![#\*!JBB' !<%8&\*B (!X<>]JB!%# (B!8#; C!&P!C[B!\*C@ (B' Cj\*!8B; %<# ' B' C!



! ](B' C4\$<' `!C[B!8@;8&\*B!&P!C[B!\*C@(\$!DX[\$!(<!C[B!#@C[&;\*!=&' (@=C!C[<!\*C@(\$E!  
! ,C#C<' `!C[B![\$8&C[B\*B\*!<' !C[B!\*C@(\$!