

!!"#\$%&'()*+"&)*, +"(%%*%"-.".*/&+*%"&\$")0*", -+)".*'*\$)"12%()*"

"#\$%&!'(&!) &*#\$\$#\$*!+,!'(&!-. /01234!56) 7#%!8&97'(!:; &<*&\$%=>!'(&!?<6; @!AB; #\$#C'<9'#+\$!(9C! #CC6&B!9\$!6\$@<&%&B&\$'&B!9<<9=!+,!'&; @+<9<=!<&*679'+<=!D9#E&<C!9\$B!\$&D!<67&C!'+!&F6#@!'(&! A; &<#%9\$!(&97'(%9<&!C=C'&; !D#'(!; 9G#; 6; !,7&G#) ###'=!'+!<&C@+\$B!'+!'(&!HI 34!J+E&7!



- N\$B&<!%6<<&\$'!<67&C>!Q&B#%9<&!%+\$C#B&<C!'(&!C&<E#%&C!+,!

 <&C#B&\$'C!'(9'!9<&!\$+'!<&79'&B!'+!'(&#<!9@@<+E&B!*<9B69'&!; &B#%97!&B6%9'#+\$!@<+*<9; C!

 9\$B!@&<,+<; &B!#\$!'(&!+6'@9'#&\$'!B&@9<'; &\$'!+<!'(&!&; &<*&\$%=!B&@9<'; &\$'!+,!9!

 (+C@#'97!9C!C&@9<9'&7=!)#779)7&!@(=C#%#9\$CMC&<E#%&CM16<#\$*!'(&!-. /01234!58:>!Q&B#%9<&!

 97C+!%+\$C#B&<C!'(&!C&<E#%&C!+,!<&C#B&\$'C!'(9'!9<&!\$+'!<&79'&B!'+!'(&#<!9@@<+E&B!ZQ:!

 @<+*<9; C!9\$B!,6<\$#C(&B!'+!#\$@9'#&\$'C!+,!9!(+C@#'97!#\$!D(#%(!'(&=!(9E&!'(&#<!'<9#\$#\$*!

 @<+*<9; !9C!C&@9<9'&7=!)#779)7&!@(=C#%#9\$CMC&<E#%&CM
- [!: G#C'#\$*!<&*679'#+\$C!(9E&!C@&%#,#%!<67&C!
 +\$!D(&\$!9!(+C@#'97!; 9=!%+6\$'!9!<&C#B&\$'!,+<!@6<@+C&C!+,!Q&B#%9<&!B#<&%'!*<9B69'&!
 ; &B#%97!&B6%9'#+\$!K1ZQ:L!@9=; &\$'C!+<!#\$B#<&%'!; &B#%97!&B6%9'#+\$!K0Q:L!@9=; &\$'CM
 J+<; 977=>!#,!'(&!<&C#B&\$'!#C!@&<,+<; #\$*!9%'#E#'#&C!D#'(!'(&!C%+@&!+,!(#CV(&<!9@@<+E&B!
 @<+*<9; !#\$!(#CV(&<!+D\$!(+; &>!+<!9!@9'#&\$'WC!(+; &>!'(&!(+C@#'97!; 9=!\$+'!%+6\$'!'(&!
 <&C#B&\$'M16<#\$*!'(&!58:>!9!(+C@#'97!'(9'!#C!@9=#\$*!'(&!<&C#B&\$'WC!C979<=!9\$B!,<#\$*&!
) &\$&,#'C!,+<!'(&!'#; &!'(9'!'(&!<&C#B&\$'!#C!9'!(+; &!+<!#\$!9!@9'#&\$'WC!(+; &>!)6'!@&<,+<; #\$*!
 B6'#&C!D#'(#\$!'(&!C%+@&!+,!'(&!9@@<+E&B!<&C#B&\$%=!@<+*<9; !9\$B!; &&'C!9@@<+@<#9'&!
 @(=C#%#9\$!C6@&<E#C#+\$!<&F6#<&; &\$'C!%9\$!%79#; !'(9'!<&C#B&\$'!,+<!0Q:!9\$B!1ZQ:!@6<@+C&CM
 ?(#C!977+DC!; &B#%97!<&C#B&\$'C!'+!@&<,+<; !'(&#<!B6'#&C!#\$!97'&<\$9'&!7+%9'#+\$C!#\$%76B#\$*!
 '(&#<!+D\$!(+; &!+<!9!@9'#&\$'WC!(+; &>!C+!7+\$*!9C!C6%(!9%'#E#'#&C!; &&'!9@@<+@<#9'&!
 @(=C#%#9\$!C6@&<E#C#+\$!<&F6#<&; &\$'CM
- 016<#\$*!'(&!
 -. /01234!58: \(\) \(\





- -+; @7=!D#'(!977!+'(&<!(+C@#'97!%+\$B#'#+\$C!+,!@9<'#%#@9'#+\$!9\$B!'(+C&!"J\!
 @<+E#C#+\$C!C&'!+6'!9'!TH!-\X!T_HMJ_K)L!'+!'(&!&G'&\$'!\$+'!D9#E&BM
- o g&!%+\$C#C'&\$'!D#'(!'(&!C'9'&\C!&; &<*&\$\%-!@<&@9<&B\$&CC!+<!@9\$B&; #\%!@79\$\\

8+C@#'97C!; 6C'!%977!'(&!-Q''!Q&B#%9<&!AB; #\$#C'<9'#E&!-+\$'<9%'+<!KQA-L!&\$<+77; &\$'! (+'7#\$&!'+!9BB!CD#\$*!)&B!C&<E#%&CM ?(&!(+C@#'97!; 6C'!9''&C'!'+!-Q''!'(9'[!

- \circ ?(&=!(9E&!; 9B&!9!*++B!,9#'(!&,,+<'!'+!&G(96C'!977!+'(&<!+@'#+\$CP!
- o ?(&!(+C@#'97!; &&'C!977!D9#E&<!&7#*#)##'=!<&F6#<&; &\$'CP!9\$B!
- ?(&=!(9E&!9!@79\$!'+!B#C%(9<*&!@9'#&\$'C!9C!C++\$!9C!@<9%'#%9)7&>!D(&\$!9!"J\!)&B!)&%+; &C!9E9#9)7&>!+<!D(&\$!'(&!58:!&\$BC>!D(#%(&E&<!#C!&9<7#&<\!!

?(#C!D9#E&<!9@@7#&C!'+!977!Q&B#%9<&!&\$<+77&B!(+C@#'97C>!&G%&@'!@C=%(#9'<#%!9\$B!7+\$*!'&<;!%9<&!(+C@#'97C!'(9'!\$&&B!'+!@<+E#B&!@+C'2(+C@#'97!"J\!7&E&7!CD#\$*2)&B!C&<E#%&C!,+<!\$+\$2
9%6'&!%9<&!@9'#&\$'C!#\$!(+C@#'97C>!C+!7+\$*!9C!'(&!D9#E&<!#C!\$+'!#\$%+\$C#C'&\$'!D#'(!'(&!C'9'&WC!
&; &<*&\$%=!@<&@9<&&\$&CC!+<!@9\$B&; #%!@79\$M?(&!(+C@#'97!C(977!\$+'!)#77!,+<!"J\!55"!
@9=; &\$'!6C#\$*!CD#\$*!)&BC!D(&\$!@9'#&\$'C!<&F6#<&!9%6'&!7&E&7!%9<&!+<!%+\$'#\$6&B!9%6'&!
%9<&!9'!9\$=!'#; &!D(#&!'(#C!D9#E&<!#C!#\$!&,,&%'M?(#C!D9#E&<!#C!@&<; #CC#)7&!,+<!CD#\$*!)&B!
9B; #CC#+\$C!B6<#\$*!'(&!-./01234!58:!D#'(!9\$!6\$B&<C'9\$B#\$*!'(9'!'(&!(+C@#'97!; 6C'!(9E&!9!"J\!)&B!)&%+; &C!
9!@79\$!'+!B#C%(9<*&!CD#\$*!)&B!@9'#&\$'C!9C!C++\$!9C!@<9%'#%9)7&>!D(&\$!9!"J\!)&B!)&%+; &C!

- [!-Q''!#C!D9#E#\$*!%&<'9#\$!C@&\#,#\!@9@&<D+<0!<&F6#<&; &\$'C!+\$7=!
 ,+<!(+C@#'97C!D(#\(!9<&!\%+\$C#B&<&B!'+!)&!#; @9\'&B!)=!9!D#B&C@<&9B!+6')<&90!+,!-. /012
 34M?(#C!977+DC!(+C@#'97C!'+!&C'9)7#C(!-. /01234!C@&\#,#\!9<&9CM8+C@#'97C!'(9'!9<&!7+\%9'&B!
 #\$!9!C'9'&!'(9'!(9C!D#B&C@<&9B!\%+\$,#<; &B!\%9C&C!D+67B!\$+'!)&!<&F6#<&B!'+!; &&'!'(&!
 ,+7/+D#\$*!<&F6#<&; &\$'C[!
 - O TH!-\X!dT_HM3SKBLKHL!D#'(!<&C@&%'!'+!'#; &,<9; &C!#\$!@<+E#B#\$*!9!%+@=!+,!9!; &B#%97! <&%+<BM
 - O TH!-\X!dT_HM3SK(L!<&79'&B!'+!@9'#&\$'!E#C#'9'#+\$>!#\$%76B#\$*!'(&!<&F6#<&; &\$'!'+!(9E&!D<#''&\$!@+7#%#&C!9\$B!@<+%&B6<&C!+\$!E#C#'9'#+\$!+,!@9'#&\$'C!D(+!9<&!#\$!-. /01234!#C+79'#+\$!9\$B!F69<9\$'#\$&!@<+%&CC&CM
 - TH!-\X!dT HNBSK&LK3LK#L!<&*9<B#\$*!C&%76C#+\$M</p>
 - [!-Q''!#C!D9#E#\$*!%&<'9#\$!@(=C#%97!&\$E#<+\$; &\$'!<&F6#<&; &\$'C!6\$B&<!



@C=%(#9'<#%!(+C@#'97C)!9\$B!%<#'#%97!9%%&CC!(+C@#'97C!K-A8L!9C!9!<&C67'!+,!-. /01234M-Q''!D#7!
@&<; #'!,9%##'=!9\$B!\$+\$2,9%##'=!C@9%&!'(9'!#C!\$+'!\$+<; 97T=!6C&B!,+<!@9'#&\$'!%9<&!'+!)&!
6'##Y&B!,+<!@9'#&\$'!%9<&!+<!F69<9\$'#\$&>!@<+E#B&B!'(&!7+%9'#+\$!#C!9@@<+E&B!)=!'(&!C'9'&!
K&\$C6<#\$*!'(9'!C9,&'=!9\$B!%+; ,+<'!,+<!@9'#&\$'C!9\$B!C'9,,!9<&!C6,,#%#&\$'7=!9BB<&CC&BL!9\$B!#C!
%+\$C#C'&\$'!D#'(!'(&!C'9'&WC!&; &<*&\$%=!@<&@9<&B\$&CC!+<!@9\$B&; #%!@79\$M?(#C!977+DC!,+<!
#\$%<&9C&B!%9@9%#'=!9\$B!@<+; +'&C!9@@<+@<#9'&!%+(+<'#\$*!+,!-. /01234!@9'#&\$'CM'''9'&C!9<&!
C'#77!C6)c&%'!'+!+)7#*9'#+\$C!6\$B&<!'(&!#\$'&*<9'#+\$!; 9\$B9'&!+,!'(&!A; &<#%9\$C!D#'(!
1#C9)##'#&C!A%'>!'+!9E+#B!C6)c&%'#\$*!@&<C+\$C!D#'(!B#C9)##'#&C!'+!6\$c6C'#,#&B!
#\$C'#'6'#+\$97#Y9'#+\$!+<!C&*<&*9'#+\$!M

- M\+<!' (&!B6<9'#+\$!+,!' (&!58:!<&79'&B!'+!-. /01234>!-Q''!#C!

 D9#E#\$*!%&<'9#\$!<&F6#<&; &\$'C!6\$B&<!' (&!Q&B#%9<&!%+\$B#'#+\$C!+,!@9<'#%#@9'#+\$!9'!TH!-\X!

 dT_HMT3!9\$B!dT_UM HS!K9C!\$+'&B!9) +E&L!9\$B!' (&!@<+E#B&<2) 9C&B!B&@9<'; &\$'!

 <&F6#<&; &\$'C!9'!TH!-\X!dT3SM`U!'+!977+D!(+C@#'97C!'+!&C'9) 7#C(!9\$B!+@&<9'&!9C!@9<'!+,!' (&!

 (+C@#'97!9\$=!7+%9'#+\$!; &&'#\$*!' (&!%+\$B#'#+\$C!+,!@9<'#%#@9'#+\$!,+<!(+C@#'97C!*\$!+@&<9'#+\$!

 B6<#\$*!' (&!58:M ?(#C!D9#E&<!97C+!977+DC!(+C@#'97C!'+!%(9\$*&!'(&!C'9'6C!+,!'(&#<!%6<<&\$'!

 @<+E#B&<2) 9C&B!B&@9<'; &\$'!7+%9'#+\$C!'+!' (&!&G'&\$'!\$&%&CC9<=!'+!9BB<&CC!'(&!\$&&BC!+,!

 (+C@#'97!@9'#&\$'C!9C!@9<'!+,!' (&!''9'&!+<!7+%97!@9\$B&; #%!@79\$M ?(#C!D9#E&<!D#7!&\$9)7&!

 (+C@#'97C!'+!; &&'!'(&!\$&&BC!+,!Q&B#%9<&!)&\$&,#%#9<#&CM-Q''!97C+!#C!+,,&<#\$*!C+; &!

 9BB#'#+\$97!,7&G#)##'#&C!'+!,6<\$#C(!#\$@9'#&\$'!C&<E#%&C!6\$B&<!9<<9\$*&; &\$'CM
- [!-Q"!#C!D9#E#\$*!'(&!Q&B#%9<&!<&F6#<&; &\$'C!'(9'! -<#'#%97!A%%&CC!8+C@#'97C!K-A8CL!7#; #'!'(&!\$6;)&<!+,!)&BC!'+!HU>!9\$B!'(9'!'(&!7&\$*'(!+,!C'9=!)&!7#; #'&B!'+!4^!(+6<C!6\$B&<!'(&!Q&B#%9<&!%+\$B#'#+\$C!+,!@9<'#%#@9'#+\$!<&*9<B#\$*!\$6;)&<!+,!)&BC!9\$B!7&\$*'(!+,!C'9=!9'!TH!-\X!dT_UM'HIM
- [!-Q''!#C!D9#E#\$*!'(&!<&F6#<&; &\$'!9'!T_UM 31K)L!'(9'!'(&!-A8!)&! 7+%9'&B!#\$!9!<6<97!9<&9!+<!9\$!9<&9!)&#\$*!'<&9'&B!9C!<6<97>!971+D#\$*!'(&!-A8C!,7&G#)##"=!#\$! '(&!&C'9)7#C: &\$'!+,!C6<*&!C#'&!7+%9'#+\$CM\R9#E#\$*!'(&!<&F6#<&; &\$'!9'!T_UM 31K&L!





5 (=C#%#9\$2+D\$&B!(+C@#'97C!%9\$!'&; @+<9<#I=!#\$%<&9C&!'(&!\$6;)&<!+,!'(&#<!7#%&\$C&B!
)&BC>!+@&<9'#\$*!<++; C>!9\$B!@<+%&B6<&!<++; C>!&E&\$!'(+6*(!C6%(!&G@9\$C#+\$!D+67B!
+'(&<D#C&!)&!@<+(#)#'&B!6\$B&<!'(&!'''9<0!e9DM\+<!&G9; @7&>!9!@(=C#%#9\$2+D\$&B!
(+C@







• [!-Q"!#C!D9#E#\$*!'(&!@<+E#C#+\$!9'!TH!-\X!T_HMHSK)LKTL\ITH!-\X!

T_HMHSK)LK^L\I9\$B!T_UM`SUKBLKTL\ID(#\(!<&F6#<&C!'(&!\$6<C#\$*!C'9,,!'+!B&E&7+@!9\$B!0&&@!

%6<<&\$'!9!\$6<C#\$*!\%9<&!@79\$!,+<!&9\(!@9'#&\$'\I9\$B!'(&!@<+E#C#+\$!'(9'!<&F6#<&C!'(&!(+C@#'97!
'+!(9E&!@+7#\#&C!9\$B!@<+\&B6<&C!#\$!@79\&!&C'9)7#C(#\$*!D(#\(!+6'@9'#&\$'!B&@9<'; &\$'C!9<&!





U`H\!TH!-\X!THSMU`H\!TH!-\X!THHMU_H!9\$B!TH!-\X!THSMU_H!'+!977+D!&G'&\$C#+\$C!'+!,#&!9\$! 9@@&97P!

- -○"!#C!977+D#\$*!○A-C!9\$B!K0-C!#\$!'(&!\\"!@<+*<9; !TH!-\X!TIUM4UI!9\$B!TH!-\X!TIUMA``
 9\$B! '(&!59<'!-!9\$B!59<'!1!0X: C!'+!D9#E&!<&F6#<&; &\$'C!,+<!'#; &7#\$&C,+<!'#8; 5/LBd9\$B!'1-. 0002BD9#E&8
 9\$B! '(&!59<'!-!9\$B!59<'!1!0X: C!'+!D9#E&!<&F6#<&; &\$'C!,+<!'#; &7#\$&C,+<!'#8; 5/LBd9\$B!'1-. 0002BD9#E&8
 -X!-\X!TIUMA``
 - 9\$B! '(&!59<'!-!9\$B!59<'!1!0X: C!'+!D9#E&!<&F6#<&; &\$'C!,+<!'#; &7#\$&C,+<!'#8; 5/LBd9\$B! '1-. 0002BD9#E&8<