5%;<!>#>&3!

### 3>:;?@A=:\B?>\\$

L 13E&3<! ' %1!%#A&!#\$\$&6-&-!91,,&.&!;693&#<;6.,4!8&.;6!\$%&;3! ' 13E;6.!;,A&<! ';\$%!#!

2;6#69;#,!3&<>16<;8;,;\$4!61\$!<%#3&-!84!>3;13!.&6&3#\$;16<[!>#4;6.!122!<+8<\$#6\$;#,!<\$+-&6\$!,1#6!-&8\$)!!

N6!Y\\B/!I]!>&39&6\$!12!.3#-+#\$&<!%#-!<\$+-&6\$!,1#6</!8+\$!\$%&!-&8\$!8+3-&6! ' #<!\$4>;9#,,4!,1 ' !O!

81331 ' &3<!1 ' &-!#31+6-!^YC/CCC!16!#A&3#.&!Q;6!HCYB!-1,,#3<R)!!51-#4/!]C!>&39&6\$!12!.3#-+#\$&<!

%#A&!,1#6<!#6-!\$%&!#A&3#.&!-&8\$!8+3-&6!%#<!\$3;>,&-!\$1!^BC/CCC) !!5%&!3#>;-!3;<&!;6!<\$+-&6\$!-&8\$!

%#<2!,,&#3,4! ' &#E&6&-!\$%&!8#,#69&!<%&&\$!12!41+6.&3! ' 13E&3<)!!\_1 ' !%#A&!\$%&4!3&<>16-&-J!!(1@&!

<\$+-&6\$<!@#4!9+\$!8#9E!16!916<+@>\$;16)!! ` \$%&3<!@;.%\$!3#9E!+>!1\$%&3!\$4>&<!12!-&8\$a!;6-&&-!

93&-;\$ ' 13\$%;6&<<!QO;9%&A#!#6-!5%1@><16!HCYBR)!!P,\$&36#\$;A&,4/!<\$+-&6\$!81331 ' &3<!@#4!3&-+9&!

\$%&;3!3&\$;3&@&6\$!<#A;6./!1>\$;6.!\$1!<%13&!+>!<%13\$D\$&3@!6&&-<!#\$!\$%&!&?>&6<&!12!\$%&!,16.&3!3+6)!!

O;A&6!\$%&!3#>;-!3;<&!;6!<\$+-&6\$!-&8\$!#6-!\$%&!693&#<;6.!;@>13\$#69&!12!;6-;A;-+#,13&\$;3&@&6\$!

<#A;6./!#!6#\$+3#,!G+&<\$;16!#3;<&<[!%1 ' !-1&<!\$%&!>3&<&69&!12!<\$+-&6\$!-&8\$!#22&9\$!41+6.!#-+,\$<\!!
-&9;<;16<!\$1!<#A&!213!3&\$;3&@&6\$/!#6-!%1 ' !-1&<!\$%&!>3&<&69&!12!<\$+-&6\$!-&8\$!#99+@+,#\$;16J!!!

L %;,&!\$%&!>1>+,#3!>3&<<!%#<!#;3&-!9169&36<!\$%#\$!3#>;-,4!3;<;6.!<\$+-&6\$!-&8\$!91+,-!<&\$!8#9E!
&2213\$<!\$1!<#A&!213!3&\$;3&@&6\$!Q&).)/!U#<16!HCYIR/!\$%&!#9#-&@;9!,;\$&3#\$+3&!16!\$%&!3&,#\$;16<%;>!
8&\$ ' &&6!<\$+-&6\$!,1#6!-&8\$!#6-!3&\$;3&@&6\$!<#A;6./!&<>&9;#,,4!#\$!41+6.&3!#.&</!%#<!8&&6!\$%;6)!!5%&!
,#9E!12!3&<&#39%!,;E&,4!<\$&@<!231@!\$%&!3&9&694!12!\$%&!>318,&@!0!;6!b+<\$!YI!4&#3</!\$%&!6#\$;16#,!\$1\$#,!
12!1+\$<\$#6-;6.!<\$+-&6\$!,1#6!-&8\$!%#<!@13&!\$%#6!\$3;>,&-!;6!3&#,!\$&3@<!Q:&-&3#,!\*&<&3A&!T#6E!12!
U& ' ! c 13E!HCYZR!0!#6-!\$%&!<%13\$91@;6.<!12!\$%&!-#\$#!\$4>;9#,,4!+<&-!\$1!#6< ' &3!G+&<\$;16<!#81+\$!
<#A;6.<!#6-!-&8\$)!!U&#3,4!#,,!12!\$%&!&?;<\$;6.!<\$+-;&<!3&A;& ' &-!8&,1 ' !+<&!\$%&!

 $!0(S: \mathbb{R}/!\#!6\#\$; 16\#, 4!3\&>3\&<\&6\$\#\$; A\&!931<<\mathbb{D}<\&9\$; 16\#, !-\#\#<\&\$)!!T\&9\#+<\&!12!\$\%\&!3;<; 6.!$  ;69; -&69&!#6-!#@1+6\$!12!<\$+-&6\$!-&8\$/!41+6.!#-+,\$<!#3&!@1<\$!,; E&,4!\$1!8&!; @>#9\$&-!84!\$%;<!;<+&)!! c &\$!\$%&!(S: !;69,+-&<!16,4!#!<@#,,!6+@8&3!12!41+6.!#-+,\$</!' %;9%!@#4!,&#-!\$1!61;<4!3&<+,\$<):!! d&3%#><!#<!#!3&<+,\$/!&?;<\$;6.!<\$+-;&<!12\$&6!;69,+-&!1,-&3!%1+<&%1,-</!' %1<&!&-+9#\$;16#,!-&8\$! ;E&,4!#31<&!,#\$&3!;6!,;2&!' %&6!\$%&4!%&,>&-!2;6#69&!\$%&;3!9%;,-3&6M<!&-+9#\$;16/!3#%&3!\$%#6!' %&6! \$%&4!' &3&!41+6.!\$%&@<&,A&<)!

51!1A&391@&!\$%&<&!<%13\$91@;6./!\$%;<!>31b&9\$!+<&<!\$%&!

0Uh(c)R/! ' %;9%!<#@>,&<!#!,#3.&3!91%13\$!12!3&9&6\$!91,,&.&!.3#-+#\$&<!\$#6!' 1+.-!8&!#A#:,#8,&!:6!<\$#6-#3-!<+3A&4<!12!%1+<&%1,-!2:6#69&</!#6-!:69,+-&<!3:9%!:6213@#\$;16!16! <\$\+-&6\$\<\!!2#@;,4!8#9E.31+6-\!91,\&.&!G+#,;\$4\!#6-!;6\$&,\&9\$\+#,!#8;,;\$4\!! L \%&3&\#<!<1@&!>3&A;1+<! <\$\+-;&<!&?#@;6&-! ' &#,\$\!#99+@+,#\$;16!;6!.&6&3#,/!\$\;<!<\$\+-4!219+<&<!@13&!6#331 ' ,4!16! 3&\$;3&@&6\$!>,#6!>#3\$;9;>#\$;16!#6-!#<<&\$<)!!N@>13\$#6\$,4/!\$%&!916\$31,<!>31A;-&-!84!\$%&!Uh(c\]! #,,1'!\%\&!>31\&9\!\1!#6#,47\&!<\\$+-\&6\!\'1!-;22\&3!';\\\1\80\\\$9\!\\1!\\\\&;3!\&A&.<!12!<\\$+-\&6\!-\&8\!\8+\\! #3&!1\$%&3':<&!<:@:,#3!:6!@1<\$!1\$%&3!18<&3A#8,&!9%#3#9\$&3;<\$;9<)!!\$ 5%&!3&<+,\$<!;6-;9#\$&!\$%#\$!41+6.!'13E&3<!';\$%!<\$+-&6\$!,1#6<!#3&!b+<\$!#<!,;E&,4!\$1! ! ;6!3&\$;3&@&6\$!>,#6<!#<!\$%1<&! ';\$%1+\$!,1#6<)!!T+\$!91,,&.&!.3#-+#\$&<! ';\$%!-&8\$!#9\$+#,,4! 16,4!%#,2!#<!@+9%!;6!3&\$;3&@&6\$!#<<&\$<!84!#.&!BC!\$%#6!.3#-+#\$&<!':\$%!<\$+-&6\$!-&8\$)!!N6\$&3&<\$;6..4/! 41+6.!' 13E&3<!';\$\!8#9\&,13\\<!-&.3&&<!<&@!\\$1!3&<>16-!\\$1!\\%&!@&3&!>3&<&69&!12!\!\\$+-&6\!,1\#6/! 8+\$!61\$!\$%&!#@1+6\$!12!-&8\$!0!\$%1<&! ';\$%!<@#,,!#6-!,#3.&!,1#6<!#99+@+,#\$&!<;@;,#3!3&\$;3&@&6\$!#<<&\$! ,&A&,<)!!: 13!\$%1<&!\$%#\$!#\$\$&6-!91,,&.&!#6-!-1!61\$!.3#-+#\$&/!>#3\$;9;>#\$;16!3#\$&<!#6-!3&\$;3&@&6\$! ' &#,\$%!#99+@+,#\$;16!#3&!<;@:,#3! ' %&\$%&3!13!61\$!\$%&4!%#-!<\$+-&6\$!-&8\$)! 5%&!>#>&3!>319&&-<!#<!21,,1'<)!!5%&!2;3<\$!<&9\$;16!-&<93;8&<!\$%&!<\$#\$&!12!\$%&!.;\$&3#\$+3&!16! %1'!<\$+-&6\$!-&8\$!#22&9\$<!3&\$;3&@&6\$!<#A;6.<!#6-!1\$%&3!@#3E&3<!12!2;6#69;#,!#6-!&9161@;9! @#\$+3;\$4)!!5%&!<&916-!<&9\$;16!-&<93;8&<!\$%&!Uh(c\]!-#\$#)!!5%&!\$%;3-!<&9\$;16!1+\$,;6&<!\$%&!

&9161@&\$3;9!<\$3#\$& .4!+<&-!;6!\$%;<!<\$+-4)!!5%&!21+3\$%!<&9\$;16!3&A;&'<!\$%&!3&<+,\$</!#6-!\$%&!2;6#,!
<&9\$;16!9169,+-&<!\$%#\$!41+6 .!91,,& .&! .3#-+#\$&<!';\$%!,1#6<!#3&!b+<\$!#<!,;E&,4!\$1!<#A&!213!
3&\$;3&@&6\$/!8+\$!\$%&;3!,1'&3!@16\$%,4!916\$3;8+\$;16<!3&<+,\$!;6!,&<<!3&\$;3&@&6\$!'&#,\$%!#99+@+,#\$;16!
84!# .&!BC)!

!

# C;DEB?A9\$0B:D;<:A;D!

`\$%&3!<\$+-;&<!%#A&!&?#@;6&-!\$%&!#<<19;#\$;16!8&\$ '&&6!<\$+-&6\$!-&8\$!#6-!2;6#69;#,! '&,,D
8&;6.!@13&!.&6&3#,,4/! ';\$%1+\$!219+<;6.!16!3&\$;3&@&6\$!<#A;6.!;6!>#3\$;9+,#3)!!S11>&3!#6-!L#6.!
QHCYIR!2;6-!\$%#\$!%1@&1 '6&3<! ';\$%!<\$+-&6\$!-&8\$!%#A&!<+8<\$#6\$;#,,4!,&<<!2;6#69;#,! '&#,\$%!\$%#6!
%1@&1 '6&3<! '%1!#\$\$&6-&-!91,,&.&! ';\$%1+\$!<\$+-&6\$!,1#6<)!!:34!QHCYIR!2;6-<!\$%#\$!6&\$! '13\$%!;<!
@+9%!,1 '&3!213!%1+<&%1,-<! ';\$%!<\$+-&6\$!-&8\$/!;6!>#3\$;9+,#3!;2!91,,&.&!#\$\$&6-&&<!-;-!61\$!.3#-+#\$&)!!
0;9%&A#!#6-!5%1@><16!QHCYiR!2;6-!\$%#\$!.3&#\$&3!<\$+-&6\$!,1#6!-&8\$!;<!#<<19;#\$&-! ';\$%!.3&#\$&3!
93&-;\$!916<\$3#;6\$!#6-!.3&#\$&3!3;<E<!12!8#6E3+>\$94!#6-!2#,,;6.!8&%;6-!16!1\$%&3!-&8\$!>#4@&6\$<)!!!

P61\$%&3!91@@16!%4>1\$%&<;<!;<!\$%#\$!<\$+-&6\$!-&8\$!3&-+9&<!%1@&1'6&3<%;>/!';\$%!6+@&31+<!
<\$+-;&<!-19+@&6\$;6.!3&-+9&-!%1@&1'6&3<%;>!3#\$&<!#<!,1#6!8#,#69&<!;693&#<&)!!5%;<!3&-+9\$;16/!;6!
\$+36/!9+\$<!;6\$1!#<<&\$<!\$%#\$!'1+,-!8&!#A#;,#8,&!\$1!<+>>13\$!16&<&,2!;6!3&\$;3&@&6\$)!!\_1'&A&3/!\_1+,&!
#6-!T&3.&3!QHCYiR!2;6-!61!#<<19;#\$;16!8&\$'&&6!<\$+-&6\$!-&8\$!#6-!%1@&1'6&3<%;>!3#\$&<)!!5%&;3!

<\$+-4/!,;E&!1+3</!+<&<!\$%&!Uh(c\]/!9;\$;6.!;\$<!,#3.&3!<#@>,&!12!41+6.&3!%1+<&%1,-<!#6-!#8;,;\$4!\$1! 916\$31,!213!2#9\$13<!\$%#\$!\$%&!(S:!#6-!1\$%&3!-#\$#<&\$<!+<+#,,4!,#9E!\$%#\$!8;#<!\$%&!3&,#\$;16<%;>)!

 $P!2\&' !<\$+-;\&<!\&?\#@;6\&!616D2;6\#69;\#,!@\#3E\&3<!12!\#-+,\$\%11-/!<+9\%!\#<!@\#33;\#.\&!\#6-!\\ >\#3\&6\$\%11-)!!S\%;\$\&b;!QHCC]R!2;6-<!61!<\$\#\$;<\$;9\#,,4!<;.6;2;9\#6\$!3\&,\#\$;16<\%;>!8\&\$' &&6!<\$+-&6\$!-&8\$!\\ \#6-!\&;\$\%&3!@\#33;\#.\&!13!>\#3&6\$\%11-/!8+\$!P--1!QHCYIR!\#6-!O;9\%&A\#!QHCYjR!2;6-!$\%\#\$!41+6.!\#-+,\$<!\\ ';\$\%!<\$+-&6\$!-&8\$!\#3\&!,&<<!,;E&,4!\$1!@\#334/!\#6-!U#+/!f' 4&3/!#6-!_1-<16!QHCYiR!2;6-!$\%#$!41+6.!\\ '1@&6!';\$\%!\%;.\%!<\$+-&6\$!-&8\$!,&A&,<!-&,\#4!@1$\%&3\%11-)!$ 

#### %<:<\\$

5%;<!<\$+-4!+<&<!\$%&!Uh(c\]/!'%;9%!91,,&9\$<!;6213@#\$;16!#81+\$!\$%&!\$3#6<;\$;16!231@!
9%;,-%11-!\$1!#-+,\$%11-!213!P@&3;9#6!41+\$%</!;69,+-;6.!&-+9#\$;16#,!&?>&3;&69&!Q#6-!%1'!;\$!;<!
>#;-!213R!#6-!,#813!@#3E&\$!1+\$91@&<)!!5%&!Uhc(\]!8&.#6!';\$%!Z/\ZI!;6-;A;-+#,<!8136!8&\$'&&6!
Y\ZC!#6-!Y\ZI/!;6\$&3A;&';6.!\$%&@!#6-!\$%&;3!>#3&6\$<!213!\$%&!2;3<\$!\$;@&!;6!Y\\])!!:1,,1'D+>!
;6\$&3A;&'<!'&3&!916-+9\$&-!#66+#,,4!+6\$;,!HCYY/!#6-!8;&66;#,,4!\$%&3&#2\$&3)!!\*&<>16-&6\$<!#3&!#.&<!
H\DBB!84!HCYB/!'%;9%!;<!\$%&!,#<\$!'#A&!+<&-!;6!\$%;<!>#>&3)!

5%&!Uh(c)7589.9143/TT21Tf[(')-0.2(%;)0.2(9)0.2(%!;)0.283Tm3Tf0.2(()-0.2(c)-166Tm/T]6

;<!8#<&-!16!91+>,&<! ' %;,&!\$%&!;6-&>&6-&6\$!A#3;#8,&!;<!8#<&-!16!\$%&!;6-;A;-+#,/!\$%&!3&<+,\$<!
3&<\$3;9\$;6.!\$%&!<#@>,&!\$1!<;6.,&!;6-;A;-+#,<!#3&!;69,+-&-!#<!#!318+<\$6&<<!9%&9E)!

 $5\%\&! Uh (c \mid ]!\#,<1!91,,&9\$<!@\#64!A\#3;\#8,\&<!\$\%\#\$!\#3\&!+6\#A\#;,\#8,\&!;6!931<<\mathbb{D}<\&9\$;16\#,!2;6\#69\&!<<+3A\&4<!<+9\%!\#<!\$\%\&!(S:)!!:;3<\$/!;\$!;69,+-&<!-&\$\#;,\&-!-\#\$\#!16!$ 

5#8,&!H!\$#8+,#\$&<!\$%&!>31>13\$;16!12!\$%&!<#@>,&!';\$%!#!<\$+-&6\$!,1#6/!<&>#3#\$&,4!84!'%&\$%&3!
\$%&!3&<>16-&6\$!91@>,&\$&-!#!21+3D4&#3!-&.3&&)!!5%&!<#@>,&!;69,+-&<!@13&!\$%#6!Y/ICC!;6-;A;-+#,<!
';\$%!<\$+-&6\$!,1#6</!@13&!\$%#6!\$3;>,&!\$%&!<#@>,&!<;7&!#A#;,#8,&!;6!\$%&!(S:!213!#!91@>#3#8,&!#.&!
3#6.&)!!P@16.!\$%1<&!';\$%!,1#6</!#>>31?;@#\$&,4!\$%3&&DG+#3\$&3<!%#A&!#!-&.3&&/!8+\$!16,4!IY!>&39&6\$!
12!\$%1<&!';\$%1+\$!,1#6<!%#A&!#!-&.3&&)!!P@16.!-&.3&&!%1,-&3</!6&#3,4!I]!>&39&6\$!6&A&3!%#-!,1#6<!
13/!#\$!,&#<\$/!%#A&!61!1+\$<\$#6-;6.!-&8\$!#\$!\$%&!#.&DHi!;6\$&3A;&')!!!

## 4 D:F?@?G?HI\$

5%&!#6#,4<;<!&<\$;@#\$&<!3&.3&<<;16!@1-&,<!'%&3&!\$%&!-&>&6-&6\$!A#3;#8,&/!Y<sub>,0</sub>/!;<[!YR!#6!;6-;9#\$13!213!>#3\$;9;>#\$;6.!;6!#64!&@>,14&3D<>16<13&-!3&\$;3&@&6\$!>,#6!84!#.&!BC/!'%&\$%&3!13!61\$!
\$%&!;6-;A;-+#,!%#<!'13E&-!213!#6!&@>,14&3!'%1!122&3<!#!>,#6

.3#-+#\$&<! '%1!#\$\$&6-&-!91,,&.&/!\$%1<&! ';\$%!<\$+-&6\$!,1#6<!%#-!#!@&-;#6!616D<\$+-&6\$!-&8\$!12!
^I/iCC!#\$!#.&!BC/!91@>#3&-!\$1!^Y/]iC!213!616D.3#-+#\$&<! ';\$%1+\$!<\$+-&6\$!,1#6<)!!U16D3&\$;3&@&6\$!
#<<&\$<!#3&!9,&#3,4!%;.%&3! '%&6!91,,&.&!.3#-+#\$&<!%#A&!61!<\$+-&6\$!-&8\$!0!#.#;6/!@13&!\$%#6!-1+8,&!
\$%&!616D3&\$;3&@&6\$!#<<&\$<!12!91,,&.&!.3#-+#\$&<! ';\$%!<\$+-&6\$!,1#6<)!!(+3>3;<;6.,4/!\$%&!-;22&3&69&!;6!
616D3&\$;3&@&6\$!#<<&\$<!213!616D.3#-+#\$&<! ';\$%!#6-! ';\$%1+\$!<\$+-&6\$!,1#6<!;<!<@#,,/!#6-!&A&6!.1;6.!
\$%&!1>>1<;\$&! '#4!84!<1@&!@&#<+3&</!\$%1+.%!\$%&!#<<&\$!,&A&,<!#3&!\$4>;9#,,4!<@#,,!213!\$%;<!.31+>/!<1!
\$%&4!#3&!A+,6&3#8,&!\$1!1+\$,;&3<)!

5%&!219+<!12!\$%;<!>#>&3!;<!16!\$%&!,#<\$!>#6&,!12!5#8,&!B[!\$%&!91@>#3;<16!12!3&\$;3&@&6\$!
#<<&\$<)!! " &-;#6!#<<&\$<!#3&!#,@1<\$!&?#9\$,4!&G+#,!#@16.!\$%1<&! ';\$%!#6-! ';\$%1+\$!,1#6<!1A&3#,,/!#6-!
#@16.!616D.3#-+#\$&<)!!T+\$!91,,&.&!.3#-+#\$&<!#>>>&#3<!\$1!8&!;@>#9\$&-!84!\$%&!%#3@2+,!&22&9\$!12!
,1#6<[!3&<>16-&6\$<! ';\$%1+\$!,1#6<!%#A&!@&-;#6!3&\$;3&@&6\$!#<<&\$<!12!^YZ/H]C/!#,@1<\$!-1+8,&!\$%&!
^YC/BjC!@&-;#6!213!.3#-+#\$&<! ';\$%!,1#6<)!! " &#6!3&\$;3&@&6\$!,&A&,</!#,<1!&?9,+-;6.!616D
>#3\$;9;>#6\$</!#3&!9,1<&3!8+\$!&?%;8;\$!\$%&!<#@&!>#\$\$&36[!\$%&!#A&3#.&!,&A&,!12!3&\$;3&@&6\$!#<<&\$<!#\$!#.&!
BC!;<!#,@1<\$!^Bi/CCC!213!.3#-+#\$&<! ';\$%1+\$!,1#6</!91@>#3&-!\$1!6&#3,4!^Hj/CCC!213!.3#-+#\$&<! ';\$%!,1#6<>) (+3>3;<;6.,4/!3&<)16-&6\$<! ';\$%!<\$+-&6\$!,1#6<!#3&!@13&!,;E&,4!\$1!>#3\$;9;>#\$&!;6!#!3&\$;3&@&6\$!
>,#6!Q&;\$%&3!#<!>#3\$;9;>#6\$<!\$%&@<&,A&<!13!91+>,&-! ';\$%!<1@&16&!&,<&! '%1!>#3\$;9;>#\$&?)>#\$&<R)!!P@16.!
91,,&.&!.3#-+#\$&</!\$%&!>#3\$;9;>#\$;16!3#\$&!;<!&<&6\$;#,,4!&G+#,[!b+<\$!,&<<!\$%#6!\$ '1D\$%;3-<!12!.3#-+#\$&<!
%#A&!3&\$;3&@&6\$!%!<

;69,+-;6.!>#3&6\$#,!8#9E.31+6-!13!+6-&3,4;6.!#8;,;\$4/!84!91,,&.&!,1#6!\$&39;,&!Q#6-!#@16.!\$%1<&!
';\$%!61!,1#6<R!<&>#3#\$&,4!213!91,,&.&!.3#-+#\$&<!#6-!616D.3#-+#\$&<)!

\$1,,&.&!.3#-+#\$&<!';\$%1+\$!,1#6<!9,&#3,4!%#A&!\$%&!@1<\$!#-A#6\$#.&-!8#9E.31+6-<

\$%&!-&>&6-&6\$!A#3;#8,&)!!5%&!@&#6!>#3\$;9;>#\$;16!3#\$&!;<!3&>13\$&-!;6!\$%&!2;3<\$!31 '!213!3&2&3&69&)!!N6! #--;\$;16/!#,,!<>&9;2;9#\$;16<!

P6-/!;6\$&3&<\$;6.,4/!\$%&;3!-&9;<;16!\$1!916\$3;8+\$&!,&<<!#>>&#3<!+63&,#\$&-!\$1!\$%&!<;7&!12!\$%&!,1#6! >#4@&6\$/!8+\$!;6<\$&#-!3&2,&9\$<!\$%&!@&3&!2#9\$!\$%#\$!\$%&4!%#A&!\$1!@#E&!#!>#4@&6\$!&#9%!@16\$%) !!!

5%&!3&<+,\$<!<+ . . &<\$!\$\#\$!3&213@<!#;@&-!#\$!@#E;6 . !<\$+-&6\$!-&8\$!@13&!@#6# . &#8,&!@#4!
>31A&!;6&22&9\$;A&!#\$!;693&#<;6 . !3&\$;3&@&6\$!<#A;6 . !#@16 . !41+6 . ! ' 13E&3<)!!5%&<&!3&213@</!<+9%!#<!
\$4;6 . !<\$+-&6\$!,1#6!>#4@&6\$<!\$1!;691@&/!@#4!,&#A&!@13&!311@!;6!\$\&!8+- . &\$!213!916\$3;8+\$;6 . !\$1!
3&\$;3&@&6\$!>,#6<)!!T+\$!\$\&!3&<+,\$<!<+ . . &<\$!\$\#\$!<\$+-&6\$!-&8\$13<!#3&!61\$!@#E;6 . !\$\&;3!916\$3;8+\$;16!
-&9;<;16!8#<&-!16! ' \%#\$!\$\&4!9#6!#2213-/!8+\$!16!\$\&!@&3&!>3&<&69&!12!\$\&!,1#6)!!!\\6!2#9\$/!;2!;691@&D
8#<&-!3&>#4@&6\$!,&6 . \$\&6<!\$\&!,1#6<\\!\$&3@/!;\$!@#4!#9\$+#,,4!<&\$!<\$+-&6\$!-&8\$13<!&A&6!2+3\$\&3!8#9E!
0!\$\&4! ' ;,,! ' #;\$!\$\\#\$!@+9\!,16 . &3!\$1!8& .;6!<#A;6 . !;6!&#36&<\$)!!\\6<\$\&#-/!>1,;94@#E&3<!@#4!2;6-!;\$!
@13&!&22&9\$;A&!\$1!219+<!16!\\&,>;6 .! .3#-+#\$&<! ' ;\$\!@#6# . &#8,&!8#,#69&<!-&\$\&3@;6&! ' \\#\$!\$\\&4!9#6!
#2213-!\$1!<#A&/! ' \\;,&!\\&,>;6 .!\$1!>+\$!\$\\&;3!<\$+-&6\$!-&8\$!;6!>&3<>\&9\$;A&)!

5%&!91%13\$!<\$+-;&-!%&3&/!%1'&A&3/!#3&!b+<\$!#%&#-!12!\$%&!,#3.&!3+6D+>!;6!<\$+-&6\$!-&8\$)!!N6!
@13&!3&9&6\$!91%13\$</!<\$+-&6\$!-&8\$!%#<!8&91@&!@13&!91@@16/!#6-!1+\$<\$#6-;6.!,1#6!8#,#69&<!
,#3.&3)!!

```
/ DJD; D>=D9$
P - - 1/!: &6#8#!*)!HCYI)!k f &8$/!S 1%#8;$#$;16/!#6-! " #33;#. &!;6! c 1+6.!P-+,$%11-)1!
       iY[!Yi]DYCY!
PA&34/!S%3;<$1>%&3!#6-!(#3#%!5+36&3)!HCYH)!k($+-&6$!h1#6<[!f1!S1,,&.&!($+-&6$<!T1331'!511!
        " +9\%!0! 3!U1$!K61+.%J1!
                                                                     !HiOYR[!YiiDY\H)!
T31 '6/! " &$#/!#6-!(4-6&&!S#,- '&,.)!HCYB)!
                                  )!h;8&3$4!($3&&$!K9161@;9<!*&>13$)!U&'!c13E/!Uc[!:&-&3#,!
       *&<&3A&!T#6E!12!U& ' !c 13E)!
S&,;</!W#A;&3)!HCYC)!
                                                                           )! L #<%;6.$16/! f S[!
       F)()!T+3&#+!12!h#813!($#$;<$;9<[!S1@>&6<#$;16!#6-!L13E;6.!S16-;$;16<)!
S%; &b; /!U.; 6#!()!HCC])!k51!_#A&!#6-!51!_1,-[!P6!P6#,4<;<!12!c1+6.!P-+,$!f&8$/1!;6!
                                                             /!(%&,-16! f #67; . &3!#6-!S&9;;;#!
       *1+<&/!&-<)!U&'!c13E/!Uc[!*+<<&,,!(#.&!:1+6-#$;16)!
S11>&3/! f #6;&,!#6-!W)!S%3;<$;6#! L #6.)!HCYI)!
                                                                                           )!
       S+33&6$!d1,;94!d&3<>&9$;A&<!YID])!T1<$16/! "P[!:&-&3#,!*&<&3A&!T#6E!12!T1<$16)!
f#,&/!($#94!T&3.!#6-!P,#6!T)!g3+&.&3)!HCCH)!kK<$;@#$;6.!$%&!d#4122!$1!P$$&6-;6.!#! " 13&!
        (&,&9$;A&!S1,,&.&[!P6!P>>,;9#$;16!12!(&,&9$;16!16!`8<&3A#8,&<!#6-!F618<&3A#8,&<)1!
                                        !YY]0IR[!YI\YDYiH])!
f &@;6./! f #A;-!W)/!S,#+-;#!01,-;6/!#6-!h# '3&69&!:)!g #$7)!HCYH)!k5%&!:13Dd312;$!d1<$<&916-#34!
       (9%11,!(&9$13[!U;@8,&!S3;$$&3<!13!P.;,&!d3&-#$13<J1!
       HiQYR[!YB\DYiI)!
f;,,16/!K,&#613!L;<E&!#6-!W&223&4!P6-3&'!(@;$%)!HCY])!k5%&!S16<&G+&69&<!12!P9#-&@;9!"#$9%!
       T&\$ ' &&6!(\$+-\&6\$<!\#6-!\S1,,\& .\&<)1!\L 13\E;6.!\d\#>\&3!\j\BII)! " +6;9\%/!0\&3\@\#64\[!\h+- ';.\D
        "#?;@;,;#6<!F6;A&3<;$4!S&6$&3!213!K9161@;9!($+-;&<!#6-!$%&!N21!N6<$;$+$&)!
K,;;1\$\!\! L;,;\#@\!\":9\\#,\03;6\$\&;6D\L\&;\\!\#6-\!\,\\+6.\!\U\#@\!\HCYB\!\k(\$\+-\&6\!\\f\&8\!\#6-\!\f\&9,;6;6.\!
        * &$;3&@&6$!(#A;6.<)1!L 13E;6.!d#>&3!YBDBI)!($)!h1+;</! " `[!S&6$&3!213!(19;#,!
        f &A&, 1>@&6$!#$! L #<%;6.$16!F6;A&3<;$4)!
: &-&3#,!*&<&3A&!T#6E!12!U& '!c13E)!HCYZ)!
                                                                                             )!
       U& '!c13E/!Uc[!:&-&3#,!*&<&3A&!T#6E!12!U& '!c13E)!
: &-&3#,! * &<&3A&!T1#3-!12!O1A&3613<)!HCYB)!
                                                                  )! L #<%;6.$16/! f S)!PA#;,#8,&!
       #$[!%$$>[ee''')2&-&3#.3&<&3A&). 1Ae&9163&<-#$#e<92e2:.&<eT+..&$:6S%#3$<)>-2!!
:;&,-/!K3;9#)!HCC\)!kK-+9#$;16#,! f &8$!T+3-&6!#6-!S#3&&3!S%1;9&[!KA;-&69&!231@!#!:;6#69;#,!P;-!
       K?>&3;@&6$!#$!UcF!h#'!(9%11,)1!
```

```
: 34/! *:9%#3-)!HCYI)!kc1+6.!P-+.$</!($+-&6$! f &8$/!#6-!K9161@;9! L &,,DT&;6.)1! L #<%;6.$16/! f S[!
       d&'!*&<&#39%!S&6$&3!(19;#,!#6-!f&@1.3#>%;9!53&6-<!d31b&9$)!
0;9&%A#/! f 13#)!HCY j !0213$%91@;6.R)!k($+-&6$!h1#6<!13! " #33;#.&J!P!h11E!#$!$%&!_;.%,4!
       K - +9 \# \& -)1!
0;9%&A#/! f 13#!#6-!W&223&4!5%1@><16)!HCYi)!k5%&!K22&9$<!12!($+-&6$!h1#6<!16!h16.D5&3@!
        1+<&%1,-!:;6#69;#,!($#8;;$4/1!;6!
                                                                                      /!g&A;6!
        1,.86889E!#6-!T3#-!_83<\%8&;6/!&-<)!g#,#@#711/!"N[!F>b1%6!N6<$;$+$&!d3&<<)!
_;,$16<@;$%/!*18&3$)!HCYB)!kP$!L%#$!S1<$J!_1'!($+-&6$!f&8$!*&-+9&<!h;2&$;@&!L&#,$%)1!f&8$D
       213D f;>,1@#!(&3;&<)!U&'!c13E/!Uc[!f&@1<)!
_ 1+,&/!W#<16!U)!#6-!h# ' 3&69&!T&3.&3)!HCYi)!kN<!($+-&6$!h1#6!f&8$!f;<91+3#.;6.!
        1@&1 '6&3<%;>!#@16.!c1+6.!P-+,$<J1!
                                                                         |Z\setminus[iZ\setminus DiHY)|
+&.<@#6/! " #3E)!HCYj)!kP!h&.!F>[! 1 ' !#!d3;A;,&.&-! " ;613;$4!N<!03#-+#$;6.!L;$%1+$!f&8$)1!
       U& '!c13E/!Uc[!f&@1<)!
g;6./!W#9G+&,;6&!K)!HCCi)!k:&-&3#,!($+-&6$!h1#6!f&8$[!Y\\B!$1!HCCI)1!N<+&!T3;&2)!L#<%;6.$16/!
        f S[!P@&3;9#6!S1+69;,!16!K-+9#$;16)!
h#6./!g&A;6!#6-!*+<<&.,.!L&;6<$&;6)!HCYB)!k5%&!L#.&!K22&9$<!12!U1$D213Dd312;$!#6-!:13Dd312;$!
       S&3$;2;9#$;16<[!T&$$&3! f #$#/!(1@& '%#$! f;22&3&6$!*&<+,$<)1!
                                                                                       !HI[!HBCD
       HIB)!
" +66\&, /!P, :9: \#! _)/!L\&6, :\#6.! _1 + /!\#6 - !P6\%164!L\&88)!HCYY)!kL: :, :\%\&!K?>, 1<:16!12!($+-&6$!)!HCYY.
        f &8$! L ;-&6!$%&!*&$;3&@&6$!(&9+3;$4!0#>J1!
                                                                   !YiDH)!S%&<$6+$! ;,,/! " P[!
        S&6$&3!213! * &$;3&@&6$! * &<&#39%!#$!T1<$16!S1,,&.&)!
U#<16/! f &813#%)!HCYI)!k ($+-&6$!h1#6! f &8$!@#4!($;2,&!*&$;3&@&6$!(#A;6.<)1!K6.,& ' 11-!S,;22</!
       UW[ SUTS !PA#;,#8,&!#$!<u>%$$>[ee ' ' ')9689)91@e;-eYCYjHiIBi</u>!!
U#+/! ";9%#&,/!*#9%&,!K)! f '4&3/!#6-!*#6-4!_1-<16)!HCYi)!kS#6\\\!P2213-!#!T#84J! f &8\\!#6-!
        c 1+6.!P@&3;9#6<)1!
                                                                            !IH[!YYIDYHH)!
*1$%<$&;6/!W&<<&!#6-!S&9;,;#!K)!*1+<&)!HCYY)!kS16<$3#;6&-!P2$&3!S1,,&.&[!($+-&6$!h1#6<!#6-!
       K#3,4DS#3&&3!`99+>#$;16#,!S%1;9&)1!
                                                                            ! \setminus iQYR[!YI \setminus DYiB)!
5%&!\\delta<\$;\$+\$\!213!\S1,,\&.\&!\P99\&<<!\#6-!(+99\&<<!\Q5\\SP(\R)!\kV+;9E!:\#9\$<!\P81+\$!(\$+-\&6\$!\f\&8\$)1!
       PA#:,#8,&!#$[!%$$>[ee$:9#<)13.e<:$&<e-&2#+,$e2;,&<e>+8m2;,&<e f &8$m:#9$<m#6-m(1+39&<)>-2!!
```

# 5#8,&!Y)!

	U+@8&3!12!
!!	>&3<16 </th
!	:+,,!<#@>,&!
$:+,,!Uh(c \mid ]!<\#@>,\&!$	$Z/\backslash ZI!!$
P . &!BCn!84!HCYB!	i/j jC
KA&3!#\$\$&6-&-!91,,&.&!	B/]HZ
U1\$!@;<<;6.!;621!16!-&.3&&!	B/]HC
U1\$!@;<<;6.!;621!16!,1#6!	B/j ]B!!
!	
!	
!	
5#8,&!H)!	
!	

!!	!!	L;\$%!-&.3&&!	P\$\$&6-&-!! 8+\$!61!-&.3&&!
U1!	,1#6!	\BB!!	Y/BHH!!
!	d&39&6\$!#@16.!\$%1<&! ';\$%1+\$!,1#6 </td <td>IY)I o!</td> <td>iZ)jo!</td>	IY)I o!	iZ)jo!
_#A	A&!,1#6!	Y/CBB	BZi

5#8,&!I#)!

5#8,&!18)!

!!		S1,,&.&!	,1#6!\$&39;,&!#\$!#	‡.&!Hi!
S%#3#9\$&3;<\$;9!#\$!#.&!BC!Q&?9&>\$!'%&3&! 61\$&-R!	U1!,1#6 </th <th>T1\$\$1@!</th> <th>";,&amp;!</th> <th>51&gt;!</th>	T1\$\$1@!	";,&!	51>!
(\$+-&6\$!,1#6!#@1+6\$!#\$!#.&!Hi!	C! !!	I/IIY!!!	Yj/iYI! !!	Bj/jCY!!!
* &\$;3&@&6\$!>,#6!>#3\$;9;>#\$;16!	C)BYi!!	C)BiB!	C)Ijj!!	C) i YH!!
* &\$;3&@&6\$!>,#6!#@1+6\$!	i/BZ\!	I/i\H!!	Z/i IB!	I/]YC!
K#36;6. </td <td>Hi/I∖i!!</td> <td>Hj/HjY!!</td> <td><math>H \setminus j ] Y! !</math></td> <td>BB/Hj∖!!</td>	Hi/I∖i!!	Hj/HjY!!	$H \setminus j ] Y! !$	BB/Hj∖!!
(%#3&!12!;6-+<\$34!#+\$1&631,,&-!	C)CiC!	C)Ci]! !	$C)Cj\setminus !$	C)CIZ!
: ;3@!<;7&!	]Hi!	\II! !	HY\!!	IjH!!
d+8,;9!;6<\$;\$+\$;16!	C)]\H!	C)]BZ!	C)jBi!!	C)iCC!
d3;A#\$&!616D>312;\$!;6<\$;\$+\$;16!	C)CjC!	C)CZH!	C)YH\!	C)BYC!
: 13D>312;\$!;6<\$;\$+\$;16!	C)YIZ!	C)YZC!	C)HBi!	$C)Y \setminus C!$
F6-&3.3#-+#\$&!G+#,;\$4!;6-&?!	$Z)\backslash BB!$ !	$Y \setminus (i, j!)$	HB) j YY!	H])]BH!
" 1@! ' ;\$%!91,,&.&!-&.3&&!13!@13&!	C)YYH!	C)YBZ!	C)Y\i!!	C)YZI!
f#-!';\$%!91,,&.&!-&.3&&!13!@13&!	C)YI\!	C)YI\!!	C)Y]j!!	C)HCC!
d#3&6\$ <q!;691@&! %&6!3&<="" '="">16-&amp;6\$!;<!--YZ!</td--><td>Bi/YYC!</td><td>BI/CCI!</td><td>IH/ZHj!</td><td>i ∖/BBB!</td></q!;691@&!>	Bi/YYC!	BI/CCI!	IH/ZHj!	i ∖/BBB!
P (= PT!8&213&!91, &.&!	H)i]B!	H)ZZ]! !	B)B <b>j</b> I!!	B)YCi!!
" #,&!	C)I \B! !	C)IHB!	C)IZ\! !	C)iCC!!
" #33;&-!	C)]Bj! !	C)jHI!!	C) j i i!!	C)]C]! !
P64!E;- </td <td>C) i I \!</td> <td>C)jCI!</td> <td>C)IiB!</td> <td>C)iZi!</td>	C) i I \!	C)jCI!	C)IiB!	C)iZi!
T,#9E!	C)BYB!	- '	·	•

\$%&'(#)*# #		(		C	)	
<u>"</u> ##	+''#	#	# ,	-#.(/0((#	##	1 %23 ('-045#
##	678#	6!8#	## 698#	6''8#	##	

\$%&'(#:\*# *C* 

	\$%&'(#)*#!''''#\$%&#'(#</th><th>#'''')*+''%, - *#)/)#+\$</th><th>"%.(*0%1%2#</th><th>#3)1+%451+\$)6#%&#'(</th><th>#"")*+7\\\</th><th></th></tr><tr><td>##</td><td></td><td>+''#</td><td>##</td><td>, -#.(/0((#</td><td>##</td><td>1 %23('-045#</td></tr></tbody></table>
--	---

!""#\$\\&#'(\#"")\*+'\\,\*(\\-(.\O.\\$\#"\\1)\\$2\\3.42\\5\*(\6'\\7\\#'(\#\"\\9)\\$2\\7),,\#(\#+\\:\\$O/\#+\\;\\*.+\\<\#."\O(\#"\)

```
$\&'()\#\#!"\$\&'\$()\#\\"\\"\#\+\'(,--\#'-(.'(,/\#(012(34(!\#\"\&\#+'\\5\#(67(8'9\$\#+'(:\#3'(
     ,!2
                   ,*"+!
                                                     □ 34?E&(D5'D7)C
     ,*-
                                                     ■ F(D5'D7)C
B84'CD?5C
                                                      ,1+*
                                     ,1+2
                                                                        , 1+/
     ,*2
               , -+.
                                                 ,/+0
                                                                   ,!+!
      ,2
               34#5)67
                                  ! -78
                                                    -278
                                                                     ; -78
                                                9,*0:!/2<
                                                                  9,!":**0<
                                9,0:;..<
                                            =)(>)?7%@)#4A#5)67
&"'()$\%! +#,"-+.*/"-0,#'1,-+.*&#'12*"3*4"'#5 6778*9"5"(#:*
```