W,8#!<\$\$C!G;845\$5!4B;-!;-\$!>#\$'\$!&-!]O^3!*;->\$->!&5!B+\$5\$->\$1!&-!>#\$!G;+'!;G!+\$,1&-P5!G+;'!>#\$!8?,55!>\$X>A;;C=!?\$8>4+\$5=!,-1!&-!8?,55!1\$';-5>+,\%;-53!!

=12/1./.)J2-./12)G/3>151()B-2\$&0/"?)

- J3 `-1\$+5>,-1!,-1!\$2,?4,>\$!',\;+!8;-5>+48>5!&-!\41P'\$->!,-1!1\$8&5&;-!',C&-P=!548#!,5!a@5>\$'!

 J!,-1!a@5>\$'!/=!8;-8\$B>4,?!,88\$55&A&?&>@=!G?4\$-8@=!+,-&;-,?&>@=!4>&?&>@!>#\$;+@=!B+;5B\$8>!>#\$;+@=!
 ;2\$+8;-G&1\$-8\$=!,-1!>#\$!\$'B,>#@!P,B!"'&1>\$+'!\$X,'!b!G&-,?!\$X,'(!
- /3 W2,?4,>\$!#; <!>#\$5\$!8; -5>+48>5!&->\$+5\$8>!" '&1>\$+ '!\$X, '!b!G&-,?!\$X, '(!
- .3 VBB?@!>#\$5\$!8;-5>+48>5!>;!>#\$&+!1,&?@!?&2\$5!>;!A\$8; '\$!';+\$!<&5\$!1\$8&5&;-9',C\$+5

```
U''''/'''' 0 / 12). / 235'''?)
 !''#$%&'(')*+',-'.,/%&$'0%''1$'
M#$+$!<\&??!A$!><;!B,B$+!,55\&P-'$->5!G;+!>#&5!8;4+5$=!$,8#!<;+>#!J0c!;G!>#$!8;4+5$!',+C3!R;>#!
.55&P-'$->5!<&??!5>+$55!,BB?&8,&:-!;G!B+&-&&B?$5!8;2$+$1!&-!?$8>4+$!,-1!>#$!+$,1&-P5!>;!
4-1$+5>, -1&-P! ';1$+-!+$5$,+8#!;-!>#$!54A\$8>!,5!<$??!,5!>#$!+;?$!;6!\41P '$->!,-1!1$8&5&;-9
 ', C&-P!&-!5>41$->T5!$2$+@1,@!?&2$53!Y,B$+!,55&P- '$->5!<&??!A$!B;5>$1!&-!;-D!,>!?$,5>!.!<$$C5!
B+\&;+!>;!>#$&+!14$!1,>$!,-1!<&??!A$!54A'&>>$1!2&,!;-D3!
R; >#!B,B$+5!, +$!$55$->&; ?!+$74&+$'$->5!G;+!>#$!8;4+5$3!H,&?4+$!>;!8;'B?$>$!,!B,B$+!<&??!+$54?>!&-!,!
i$+;!A$&-P!,55&P-$1!G;+!>#$!B,B$+!',+C3!
2''3$'&/456&&6,7'0%''.$'#$%6,1'-,%'#''#$%&!
M#$+$!',@!A$!,!\&'$!<#$-!@;4!,+$!4-,A?$!\;!8;'B?$\$!,!B,B$+!A@!\#$!14$!1,\$!G;+!B$+5;-,?!
+\$,5;-53!M\#\&5!8;4+5\$!\#,5!A\$\$-!1\$5\&P-\$1!<\&\#!,88;'';1,&;-5!,-1!8;-5\&1\$+,&;-5!G;+!$X\$-4,&-P!
8&+84 '5>, -8$5!&-! '&-13!M#&5! '$, -5!>#,>!a#;+>!M$+ '!Q$74$5>5!G;+!V8,1$ '&8!*;-5&1$+,>&;-!4B!>;!
 .!1,@5!"54A ' &>>$1!>#+;4P#!>#$!H,84?\@!;G!V+>5!,-1!a8&$-8$!B;+>,?!<&>#;4>!1;84 ' $->,&;-(!,+$!-;>!
-\$\$1\$1!G; + !B, B\$+!, 55\&P-'\$->5!, -1!?; -P!>\$+'!+\$74\$5>5!G; + !, 8, 1\$'\&8!8; -5\&1\$+, \&; -!"G; + !K!1, @5!; + !B, B\$+!, 55\&P-'\$->5!, -1!?; -P!>\$+'!+\$74\$5>5!G; + !, 8, 1\$'\&8!8; -5\&1\$+, &; -!"G; + !K!1, @5!; + !B, B\$+!, 55\&P-'\$->5!, -1!?; -P!>\$+'!+\$74\$5>5!G; + !, 8, 1\$'\&8!8; -5\&1\$+, &; -!"G; + !K!1, @5!; + !B, B\$+!, &; -!"G; + !K!1, @5!; + !B, B\$+!, 55\&P-'\$->5!, -1!?; -P!>\$+'!+\$74\$5>5!G; + !, 8, 1\$'\&8!8; -5\&1\$+, &; -!"G; + !K!1, @5!; + !B, B\$+!, &; -!"G; + !K!1, &; -!"G; + !K!1
 ';+$!$X>$-5&;-(!54A'&>>$1!>#+;4P#!>#$!B;+>,?!<&??!A$!#,-1?$1!;-!.!8,5$9A@98,5$!A.5&53!!
H;+!';+$!&-G;+',\&;-!;-!#;<!>;!+$74$5\!,!B,B$+!1$,1\&-$!$X\\$-5\&;-!A\$8,45\!;G!,!DaVa9
,88; ' ';1,>$1!1&5,A&?&>@!;+!A$8,45$!;G!,!+$74$5>!G;+!8;-5&1$+,>&;-!14$!>;!$X>$-4,>&-P!
```

8&+84 ' 5>, -8\$5!"*; -5&1\$+,>&; -5!+\$74\$5>(=!B?\$,5\$!5\$\$!>#\$!V55\$55 ' \$->!WX>\$-5&;-!,-1!O\$6\$++,?!e4&1\$!

; -!>#\$!8;4+5\$!; -D!<\$A5\&>\$3!

\$X, '!B\$+&; 13!M/N-/"2")C&>)51.5@5.-3'5L/.)./C/>>/.)/O30).32/")P5")1&2)[/)3\$\$&00&.32/.7!

M#\$!1\$G\$++\$1!\$X, '!&5!8; -5&1\$+\$1!, -!; GG&8&,?!\$X, '!>;!<#&8#!,??!>#\$!\$X, '!+\$P4?,>&; -5!, BB?@3! f;>\$!

>#,>!1\$G\$++\$1!\$X, '5!',@!8;->,&-!1&GG\$+\$->!74\$5\&;-5!>#,-!>#\$!;+&P&-,??@!,1'&-&5>\$+\$1!\$X,'!,-1!

>#\$+\$G;+\$!',@!1&GG\$+!&-!1&GG&84?>@3!

 $\begin{array}{l} H;+! \ ';+\$!\&-G;+ \ ',>\&;-!;-!\#;<!>;!+\$74\$5>!,-!\$X, \ '!1\$G\$++,?!A\$8,45\$!;G!,!DaVa9,88; \ ' \ ';1,>\$1! \\ 1\&5,A\&?\&>@!;+!A\$8,45\$!;G!,!+\$74\$5>!G;+!8;-5\&1\$+,>\&;-!14\$!>;!\$X>\$-4,>\&-P!8\&+84 \ '5>,-8\$5! \\ "*;-5\&1\$+,>\&;-5!+\$74\$5>(=!B?\$,5\$!5\$\$!>\#\$!V55\$55 \ '\$->!WX>\$-5\&;-!,-1!O\$G\$++,?!e4\&1\$!;-!>\#\$!8;4+5\$! \\ ;-D!<\$A5\&>\$3! \\ \end{array}$

```
?$0%''1670'#, =6.>'-, %'#''#$%&'''71'$9''5&!
a; '$>&'$5=!>#$!MV5!, -1!$=!A4>!454,??@! '$=! ',C$! '&5>,C$5!&-!P+,1&-P3!$G!$&\#$+!;G!45! ',1$!,!
8?\$+\&8,?!\$++;+!\&-!P+,1\&-P!@;4+!,55\&P-'\$->!"\$3P3=!<\$!,11\$1!4B!@;4+!B,B\$+!58;+\$!\&-8;++\$8>?@!;+!<\$!
1$148>$1!B;&->5!G;+!>#$!<+;-P!G;->!A$&-P!45$1!<#$-!>!#$!+&P#>!G;->!<.5!45$1(=!B?$,5$!+$,8#!;4>!>;!
'$!, -1!ST??!A$!#,BB@!>;!8;++$8>!&>3!!
V5&1$!G+; '!>#;5$!8&+84 '5>,-8$5=!,??!P+,1$5!,55&P-$1!A@!MV5!,-1! '@5$?G!,+$!G&-,?3!M#$!MV5!,-1!S!
.+$!#,BB@!>;!1&58455!P+,1$1!,55&P-'$->5!,-1!B+;2&1$!,11&&;-,?!G$$1A,8C!>;!5>41$->5!&-!;G&8$!
#;4+5!,5!?;-P!,5!>#;5$!'$$>&-P5!>,C$!>#$!G;+'!;G!1&58455&;-5!,A;4>!#;<!>;!&'B+;2$!;-!G4>4+$!
,55&P-'$->5!,-1!1;!-;>!>,C$!>#$!G;+'!;G!1$A,>$5!,A;4>!<#@!';+$!B;&->5!5#;4?1!#,2$!A$$-!
. < .+1\$1!: -!.!B.+> \&84?.+!.55\&P-'\$->3!!
SG!@;4!<&5#!>;!P$>!';+$!G$$1A,8C!;-!@;4+!,55$55'$->=!B?$,5$!8;->,8>!>#$!MV!<#;!P+,1$1!&>!>;!5$>!
4B!,!'$$\&-P3!$!"O,2$!:,45$+(!,'!;6\$-!4-,A?$!\;!B+;2\&1$!45\$64?!G\$$1A,8C!,A;4\!\#\$!B,+\&84?,+!
-4,-8$5!;G!@;4+!B,B$+!A$8,45$!S!.'!-;>!>#$!;-$!<#;!P+,1$1!&3!MV5!,+$!,A?$!>;!B+;2&1$!G,+!A$>>$+!
G$$1A,8C!&-!>#$5$!8&+84 ' 5>,-8$53!
@65670',-'89"5&'
M#$!$X.'!1.>$5!G:+!$.8#!M$+'!.+$!?&5>$1!:-!>#$!H.84?>@!:G!V+>5!.-1!a8&$-8$!<$AB.P$!4-1$+!
<u>$'B;+>,->!O,>$5</u>3ja>41$->!$X,'!58#$14?$5!G;+!>#$!H,??!M$+'!,+$!B;5>$1!2\%,!a[k`a!\%''$1\%,>$?@!
B+&:+!>:!>#$!M#.-C5P&2&-P!#:?&1.@!!>#$@!.+$!B:5>$1!:-!>#$!H+&1.@!A$G:+$!O$.1&-P! $$C!G:+!>#$!
&->$+!M$+''!,-1!G;+!>#$!54'''$+!>$+'=!>#$@!,+$!&-1&2&14,??@!-;>$1!;-!>#$!V+>5!,-1!a8&$-8$!
[-\%-\$!5@??,A\&3;J2-./12"] 0 - "2). /'3\#)C513'5L51()31#)2>3@/')W'31") - 125'\3(22/>\2%/)/03 0 51325&1)
"$%/.-'/)%3")[//1)W&"2/.7\)DO3 0 ")P5"\1&2\[/) 0 &@/.)&>)./C/>>/.)2&)3$$& 0 0 & .32/)
/ 0 W'&# 0 / 129)2>3@/']%&'5.3#)W'31")&>)C'5(%2)>/"/>@325&1"Z\j!!
S - \frac{125\&1''9}{0.35'''9}31. \&1 S?!
ST2$!1&58;2$+$1!>#+;4P#;4>!>#$!@$,+5!>#,>!S!;6>$-!G&-1! '@5$?G!,-5<$+&-P!>#$!5, '$!74$5>&;-5!G+; '!
5>41$->5! ' 4?&B?$!>& ' $5!>#+:4P#:4>!>#$!@$.+3!M#&5!B?.8$5!.!#4P$!A4+1$-!:-! ' @!>& ' $!.-1!&-A:X!
A, -1 < &>#3!a; =!$!-; <!,5C!5>41$->5!<#;!,+$!$', &?&-P!'$!< &>#!-; -9B$+5; -,?!74$5%; -5!+$?,>$1!>;!>#$!
8;4+5$!>;!B?$.5$!B;5>!>#$&+!74$5\&;-!;-!>#$&+!74$5\\&;-!>;!>#$!:-D!ED4$5\\&;-5F!1\\$58455\\&;-!A:.+13!
ST??!, -5<$+!&\:\#$+$!<&\#&-!,!G$<!1,@5!5;\\#,\>!$2$+@;-$!8,-!5$$!&\3!V-1!<#&?$!@;4!,+$!\#$+$=!B?$,5$!
5$,+8#!>#$!1&58455&;-!A;.+1!>;!5$$!&G!@;4+!74$5>&;-!#,5!.?+$,1@!A$$-!,-5<$+$13!
45@/>"52#)31.)=1$'-"5&1)
S-!,-!&1$,?!<;+?1=!58&$-8$!<;4?1!A$!;A\$8>&2$3!:;<$2$+=!'48#!;G!58&$-8$!&5!54A\$8>&2$!,-1!&5!
#&5>;+&8,??@!A4&?>!;-!,!5',??!54A5$>!;G!B+&2&?$P$1!2;&8$53!$-!>#&5!8?,55=!<$!<&!??!',C$!,-!$6G;+>!>;!
+$,1!B,B$+5!G+; '!,!1&2$+5$!P+;4B!;G!58&$->&5>5=!A4>!?& '&>5!5>&??!$X&5>!;-!>#&5!1&2$+5&>@3!S!
```

, 8C-; <?\$1P\$! >#, >!& >!&5!B; 55&A?\$! >#, >!>#\$+\$! ', @!A\$!A; >#!; 2\$+>!, -1!8; 2\$+>!A&, 5\$5!& -!>#\$! ', >\$+&.?!14\$!

```
W. 8#!H. 84 ? @!#. 5!1$2$? : B$1!. !B+:>: 8: ?!>: !B+: 2 & 1$!. !8: -5 & 5>$->!. -1 !$74 & A?$!. BB+: .8#! & -!1$. %-P!
<\langle +\frac{1}{5} \frac{1}{5} \frac{1}
,-1!a8&$-8$!4-1$+P+,14,>$!5>41$->5!8,-!G&-1!>#$!H,84?>@!;G!V+>5!,-1!a8&$-8$!B+;>;8;?!,-1!>#$!
B;+>,?!<#$+$!,!+$74$5>!8,-!A$!54A'&>$13!a>41$->5!&-!;>#$+!H,84?&$5!,-1!a8#;;?5!<#;!,+$!
$-+;??$1!&-!>#&5!8;4+5$!5#;4?1!+$G$+!>;!>#$!B+;>;8;?!G;+!>#$&+!#; '$!H,84?>@3!
H;+!P4&1,-8$!;-!"-[052251()>/N-/"2"=!B?$,5$!5$$!+$6$+!>;!>#$!O$5;4+8$!e4&1$5!,2,&?,A?$!;-!>#$!
V8,1$ '&8!*;-5&1$+,\&;-!<$A5\&\$!4-1$+!EVBB?@&-P!G;+!V8,1$ '&8!*;-5\&1$+,\&;-3\F!
M#$!* [ oSO9Jh!B, -1$ ' &8!&5!, -!$2;?2&-P!5&>4,>&;-3!SG!@;4!#,2$!5@ ' B>; ' 5!;+!,+$!1$$ ' $1!,!8?;5$!
8; ->, 8>!; 6!5; '$; -$! < \& #! * [oSO=!B?$, 5$!, 88$55!; 4+! * [oSO9Q$?, >$1!VA5$-8$!Q$G$+$-8$!e4&1$!
;-!>\#\$!V8,1\$'\&8!*;-5\&1\$+,\&;-!<\$A5\&\$3!M\#\&5!P4\&1\$!<\&??!B+;2\&1\$!@;4!<\&>\#!\&-G;+',&;-!;-!
,BB?@&-P!G;+!8;-5&1$+,>&;-=!>#$!>@B$5!;G!1;84'$->,>&;-!"&-8?41&-P!-;-9'$1&8,?!1;84'$->,>&;-(!
@;4!8,-!45$!>;!54BB;+>!@;4+!+$74$5>=!,5!<$??!,5!&-5&P#>!&->;!#;<!>#$!H,84?>@!;66&8$!<&??!,55$55!
>#$5$!+$74$5>53!!!
SG!@;4!-\$\$1!>;!+\$74\$5>!,8,1\$'\&8!8;-5\&1\$+,\&:-!G;+!>\#\&5!8;4+5\$=!@;4!<\&??!A\$!+\$74\&+\$1!>;!B+;2\&1\$!>\#\$!
-, '$!, -1!$', \(\ell?!, 11+\$55!; \(G!\)#$!Y5@8#;?; P@!V88; ''; 1, \(\ell; -!8;; +1\ell-, >; +3!Y?\$, 5\$!45\$!\)#$!
G; ??; < \& -P!8; ->, 8>!\& -G; +', >\&; -)!!
Y5@8#;?;P@!V88; ' ';1,>&;-5!*;;+1&-,>;+!f, '$)!M,+,!Z,+,5$<&8#!
*;;+1&-,>;+!$',&?!,11+$55)!B5@83,88;'674$$-5438,!!
```

, 8, 1\$ ' &8!& - \$P+&@3!S-G; + ' , %; -!; -!, 8, 1\$ ' &8!& - \$P+&@!&5!, 2, &?, A?\$!& -! #\$!V +> 5!, -1!a8&\$ - 8\$! *, ?\$-1, +!"5\$\$!V8, 1\$ ' &8!Q\$P4?, %; -!J!# > B) % < < 374\$\$-5438, %, +> 58&%, 8, 1\$ ' &89 8, ?\$-1, +5%+\$P4?, %; -5%, 8, 1\$ ' &89+\$P4?, %; -5%+\$P4?, %; -9J(=!; -!) #\$!V +> 5!, -1!a8&\$ - 8\$! < \$A5&\$!"5\$! # > B5) % < < 374\$\$-5438, %, +> 58&%5 > 41\$-> 59, > 974\$\$-5%, 8, 1\$ ' &89& - \$P+& @(=!, -1!G+; ' !) #\$!& - 5 > + 48 > ; +!; G! * # &5!8; 4+5\$3!O\$B, +> 4+\$5!G+; ' !, 8, 1\$ ' &8!& -> \$P+& @!& -8?41\$!B?, P&, +&5!: ; G!4-, 4>#; +&i\$1! ' , \$+&, ?5=!G, 8&?& > %; -=!G; +P\$+@!, -1!G, ?5&G&8, &; -=!, -1!, +\$!, -> &# \$ > &8, ?!>; !> #\$!1\$2\$?; B' \$->!; G!, -! * 8, 1\$ ' &8!8; ' ' 4-& @!, >!D4\$\$-n53! e &2\$-!> #\$!5\$+&; 45-\$55!; G!> #\$5\$! ' ,>> \$+5=!, 8>&; -5! < #&#! 8; -> +, 2\$-\$!> #\$!+\$P4?, &; -!; -!, 8, 1\$ ' &8!& -> \$P+& @!8, ++@!5, -8>&; -5!> #, -!+, -P\$!G+; ' !, !<, +-&-P!; +! * #\$!?; 55!; G!P+, 1\$5!; -!, -!, 55&P- ' \$->!>; !> #\$!G, &?4+\$!; G!, !8; 4+5\$!>; !, !+\$74&+\$ ' \$->!>; !< +, <!G+; ' !

K&->''/)J\$%/...'/?)

110 γ 1) 0 φ /01 1 1 1)			
G/\$2->/).32/")	H&W5\$")	U""5(1/.)	U""/"" 0 / 12")
		>/3.51(")	
a\$B>!U! b !a\$B>!h!	S->+; 148>&; -!>;!]O^!	Vrr!&->+;!	!
		$\mathbf{Zrr}!\&->+;=!\mathbf{ZJ}!$	
a\$B>!J.!b!a\$B>!JU!	a@5>\$ '!J!,-1!a@5>\$ '!/!	ZJ!N!Zdrrr!	!

```
M/3.51(")$%3W2/>)130/"?!
M#\&-C\&-P=!H,5>!,-1!a?;<!A@!O,-\&$?!Z,#-$',-!
    !" M#$!8#,+,8>$+5!;G!>#$!5>;+@!!
   #" V >> \$ -> \&; -!, -1! \$ G G; +>!!
    M#$!?, i@!8; ->+; ??$+!!
   %" M#$!,55;8&,>&2$!',8#&-$!!
    &" *;P-&>&2$!$,5$!!
    '" f ;+ ' 5=!54+B+&5$5=!, -1!8,45$5!!
   (" V!', 8\#\&-\$!G; +!\4' B\&-P!>; !8; -8?45\&; -5!!
    ": <! \ 41P ' -5! \#, BB -!!
   *" V-5 < \$+\&-P!, -!\$, 5\&\$+!74\$5>\&; -3!!
   !+" M#$!?, <!; G!5 ', ??!-4 'A$+5!!
    !!" V-8#;+5!!
    !#" M#$!58&$-8$!;G!,2,&?,A&?&>@!!
   !$" V2,&?,A&?&>@=!$ ';>&;-=!,-1!+&5C!!
   !%" M; '!_n5!5B$8&,?>@!!
    !&" k&-1,!)!?$55!&5! ';+$!!
    !'" *,45$5!>+4 'B!5>,>\d5>\d85!!
   !(" Q$P+$55\&; -!>;!>#$! '$, -!!
    !)" M, '\&-P!\&->4\&>\&2\$!B+\$1\&8>\&;-53!!
    #+" M#$!&??45&; -!;G!2,?&1&>@!!
   #!" S->4&>&; -5!253!G; + '4?,5!!
   ##" WXB+!&->4&>&; -!)!<#-!8, -!<-!>+45>!&>s!!
   #$" M#$!;4>5&1$!2&$<!!
   #%" M#$!$-P\&-$!;G!8,B\&,?\&5 '3!!
   #&" R$+-;4??&n5!$++;+5!!
   #'" Y+;5B$8>!>#$;+@!!
   \#("M\#\$!\$-1;<`\$->!\$GG\$8>!!
   #)" R,1!$2$->5!!
   #*" M#$!G; 4+G; ?1!B, >> $+-!!
   $+" Q,+$!$2$->5!!
   $!" Q&5C!B;?\&8\&$5!!
    $#" Z$$B&-P!58;+$!!
   $$" Q$2$+5,?5!!
   $%" H+, '$5!, -1!+$,?&>@3!!
   $&" M<;!5$?2$5!!
    $'" k&G$!,5!,!5>;+@!!
   $(" WXB$+&$-8$1!<$??9A$&-P!!
    $)" M#&-C&-P!, A; 4>!?&G$3!
Y+\$1\&8>, A?@!S++,>\&;-,?!A@!O,-!V+\&\$?@!
    !" M#$!>+4>#!, A; 4>!+$?, >&2&>@!
   #" M#$!G,??,8@!;G!54BB?@!,-1!1$',-1!
    M#$!8;5>!;G!i$+;!8;5>!
   %" M#$!8;5>!;G!5;8&,?!-;+'5!
   &" M#$!B; <$+!; G!, !G+$$!8;; C&$!
    " M#$!\&-G?4$-8$!;G!,+;45,?!
```