

!"##\$%&' '( ) \* + , %  
! " # \$ % " # & # ' ! ( % ) \* + !  
, - . / 0 1 1 . - ! + 2 0 - 3 4 5 !  
607789 2 : ; : ! < 0514 = 5890 > < ! !  
!  
" 343?071@36A! " 575>5!57>!#B \*!  
!  
!  
" - ( ' \* . / 0 # %  
CDEFGEH , @ 9 I 9 ! ! # 73J0-1348! . / ! K 31 : . 7137!L7 . M!N37013 . 0 . P8Q!  
L I 3110-4543 . 7A!R ' . > 00!1454<1!57>!5440743 . 7A! \* !65-4350!4014! . / ! 1 . : 350!005-737P!  
4@0 . -8RQ!  
!  
CDESGEF! ' 9B9!#73J0-1348! . / ! K 51@37P4 . 7T!B054400!!L=0:520!N37013 . 0 . P8Q!  
L ) @ 0131A!RB . : 350! / 5 : 3034543 . 7!57>! 2 . 4 . -!60- / . - 2 5 7 : 0A! I -3J0!1<2 2 543 . 7! . -!  
37J0-40>G#URQ! !  
!  
! !  
CDEVGES! W9B9!B4540!#73J0-1348! . / ! X0M!Y . -Z!G! " . 000P0!54!W- . : Z6 . -4!  
[ -5><540>!B<2 2 5! " < 2 !&5<>0! \ ! I . < = 00! ' 5] . -!LB6 . -4!  
B : 307 : 0 ^ \$ 0 : -0543 . 7Q!  
!  
! !  
CDHDGEV! ) 05 : @ 37P! " 0-43/3:540!G!B49! " 54@0-370\_1! ) 05 : @ 0-1! " . 000POG!W- . : Z!  
# 73J0-1348G!!+00 2 0745-8! ) 05 : @ 37P! " 0-43/3:540!  
!  
CDHEGHD I 360 . 2 5! " 074077350! " . 000P0T!G! I 360 . 2 5!37!\$0 : -0543 . 7!GB : 5 = . - . < P@T! ` 749!  
!  
\* ! ! 0 / # . & " # . 1 % 2 ! \* ' \* - " & / ' %  
%  
SVCE! ! ! , - . / 0 1 1 . - ! + 2 0 - 3 4 5 ! ! I 065-4 2 074! . / ! N37013 . 0 . P8T! " B#!+514!W58!  
%  
SVCaGSVCE! ! , - . / 0 1 1 . - ! ! I 065-4 2 074! . / ! N37013 . 0 . P8T! " B#!+514!W58!  
%  
SVVDGSVCa! ! , - . / 0 1 1 . - ! 57>! " @ 53-T! I 065-4 2 074! . / ! N37013 . 0 . P8T! " B#!+514!W58!  
%  
SVVEGSVVD! ! , - . / 0 1 1 . - ! ! I 065-4 2 074! . / ! N37013 . 0 . P8T! " B#!+514!W58!!  
%  
SVVHGSVVE! % 740-3 2 ! \* 11 . : 3540! I 057T! " . 000P0! . / ! + > < : 543 . 7!57>! \* 0030>!B4<>301T! " B# + W!  
!  
SVVbGSVVH! ! , - . / 0 1 1 . - ! ! I 065-4 2 074! . / ! N37013 . 0 . P8T! " B#!+514!W58

```

!      !      *4407>0>!:0511!M34@! I -9! *0=0-4!W57><-5!\!B457/.->!#73J0-1348!
%
CDcbGCDDS!    *11314574!,-./011.-!G! I 065-4 2 074!./!N37013.0.P8T!#73J0-1348!./!" .0.-5>.T!
W.<0>0-!

CDcbGCDDD!    %
*11.:3540! ' 02=0-!G!%71434<40!./!" .P7343J0!B:307:0!G!#73J0-1348!./!
" .0.-5>.T!W.<0>0-!

!
CDcSGcb!      $0105-:@!*11.:3540!G!#73J0-1348!./!" .0.-5>.T!W.<0>0-!M@300!M.-Z37P!
.<413>0!4@0!#73J0-1348!

!
CDcCGcS!      !      &0:4<-0-!G!#73J0-1348!./!" .0.-5>.T!W.<0>0-!!

!      !
CDcV! !      !      ,-.]0:4!*11314574!G! I 0:313.7! I 0J00.6 2 074!" .-69!G!B5:-5 2 074.T!" *!

!
CDEEGcC!      $0105-:@!*11.:3540!G!#73J0-1348!./!" 503/.-735T! I 5J31!

!
CDEEGED!      &0:4<-0-!G! I 065-4 2 074!./!,@813:50!+><:5ET8,<-0-!

```

@00637P!-0J30M!57>!2 .>3/8!4@0!" .000P0e1! [ <3>003701!/. -!6- ./0113 .750!  
5:@30J0 2 0741T!57>!f<5-40-08!6- ./0113 .750!>0J00 .6 2 074! 2 00437P1!M34@!4@0!  
I 057!57>!\$ ) , !:57>3>5401!M34@37!4@0!: .000P09!)@31!M.-Z!31!501 .!-0: .P73?0>!  
37!4@0!" .000P0! ./!+><:543 .7e1!5: :-0>34543 .7!6- . :0119!  
CDcCT!CDDCT!CDDb! B340! I 3-0:4 .-!\*77<50!X\*B ,B , \*!" .7/0-07:0!



%  
&8'9::;<=>%!?!\* :43J0!d000.M!LmaFCQ!37!X543.750!\* :5>028!./!N37013.0.P89!L%7><:43.7!  
:0-02.78!B06402=0-T!SVVSQ!LdX\*NQ!

!

&8'9::;<=>%!?!%LSVVbQ9!%7J340>!51!" .2207:02074!B605Z0-T!"074077350!" .000P09! I0:0370>!><0!4.!

!





FV9 &8'9::;<=>%!?!%j!X.=00Ti9'9!LSVVSQ9!+><:543.7!/.-!=0:.237P!5!16.-4!618:@.0.P3149!%7!i9&9!  
(57!\$55040T!j!W9K9!W-0M0-!L+>19Q9!+g60.-37P!16.-4!57>!0g0-:310!618:@.0.P8!LS#S!0>Q9T!669!  
aFDGabc9!K51@37P4.7T!I"A!\*20-3:57!,18:@.0.P3:50!\*11.:3543.79!

FC9 &8'9::;<=>%!9T!j!K0311T!'9\$9!LSVVSQ9!`=10-J543.750!005-737PA!)@0!/-.P.4407!618:@.0.P3:50!  
204@.>!37!16.-4!618:@.0.P89!%7!i9&9!(57!\$55040T!j!W9K9!W-0M0-!L+>19Q9!+g60.-37P!16.-4!57>!  
0g0-:310!618:@.0.P8!LS#S!0>9Q9T!66!CFCGcbV9!K51@37P4.7T!I"A!\*20-3:57!,18:@.0.P3:50!  
\*11.:3543.79!

FS9 \$529!X9T!j!&8'9::;<=>%!?!LSVVFQ9!B00/G2.>0037PA!I.01!M54:@37P!8.<-100!/60-/.-257:0!  
37/0<07:0!6@813:50!57>!618:@.0.P3:50!60-/.-257:0U!)@0!B6.-4!,18:@.0.P314T!CET!SSVGSFS9!!

FF9 B..1..T!B9T!)5Z02.4.T!N9Y9!'':"<005P@T!,9!LSVVAQ!\*!:265-31.7!./!2.>0037P!57>!325P0-8!  
.7!4@0!60-/.-257:0!./!5!2.4.-!1Z3009!i.<-750!./!B6.-4!W0@5J3.-T!SET!FaDGFHH9!

Fa9 Y57T!i9!9T!j!&8'9::;<=>%!9!LSVVAQ9!"<04<-50!37/0<07:0!.7!8.<4@e1!2.43J543.7!./!  
65-43:36543.7!37!6@813:50!5:43J3489!i.<-750!./!B6.-4!W0@5J3.-T!SET!FEcGFcD9!

Fb9 "<2237PT!i9T!B40G'5-30T!I9'9T!"05-ZOT!B9+9T!j!':"<005P@T!,9T!j!1500T!"9%LSVVbQ9!)@0!  
/<7:43.71!./!.=10-J543.750!005-737P!f<0143.7753-0!Ld`&kQ9!,18:@.0.P8!./!B6.-4!57>!+g0-:310T!  
HT!bCEGbFE9!

FH9 \$52T!X9T!\$3PP1T!B9'9T!BZ5037PT!B9T!&57>0-1T!I9'9T!j!&8'9::;<=>%!?!LSVVEQ9!\*!:265-31.7!  
./!2.>00037P!57>!325P0-8!37!4@0!5:f<31343.7!57>!.040743.7!./!2.4.-!1Z30019!i.<-750!./!B6.-4!  
B:307:01T!SbT!bcEGbDE9!!

FE9 &8'9::;<=>%!?!%A%K301.7T! [9%LSVVEQ9%,18:@.0.P8!./!6@813:50!5:43J348A!K@54!.<-114<>0741!  
1@.<0>!Z7.M9!k<014T!bDT!aSGba9!

Fc9 \*7>0-107T!'9W9T!&8'9::;<=>%!?!%A%K301.7T! [9!LSVVEQ9!W<4!M@54!>.!4@0!7<2=0-1!-05008!4000!  
<1U!\*-=34-5-8!'04-3:1!37!B6.-4!,18:@.0.P8!\$0105-:@!i.<-750!./!B6.-4!j!+g0-:310!  
,18:@.0.P8!SDT!!HHaGHES9!

FD9 &8'9::;<=>%!?!LSVVCQ9!,-5:43:0!:713>0-543.71!37!P.0/A!)@0!-.00!./!.=10-J543.750!005-737P9!%7!  
d<4<-0!./! [.0/0-1T!I09!"-0M1!L+>9Q9!+70-P8!37!' .43.7T!'015T!\*?9!,69!!SFFGSbc!

aV9 X.-4@T!)9!"9T!&8'9::;<=>%!9T!)57T!p9!(9T!j!&5J5000T!I9T!K3003521T!i9!'9T!i.701T!'9!(9!  
L+>19Q9!j!,5654@.251T!\*9!L".005=-.54.-Q9!LSVVCQ9!/"#\$%&'()\*\$\*+##',&-#.)#++\* ,/!%7!I9!  
&5J5000T!i9!'9!K3003521T!'9!(9!i.701!L+>19Q9!j!'9!\*0007T!"9!B6-58T!I9!,040-1T!'9!+81T! [9!  
' .-P57T!(9!N-570T!"9!I.<P051T!'9!%9!i.701T!\*9!,5654@.251T!"9!B:@0-?0-T!N9! [ .>P0-!  
L".005=-.54.-1Q9!O#I&+%2-\*#+&\*,&+.')%3,-&#(##)\$\*+##.+\$4'5'6!L69!Sbc\ScaQ9!`607!#73J0-1348!  
,-0119!Q\$+, \$%X)!

aC9 &8'9::;<=>%!9T!&5MT!W9!j!B40G'5-30T!I!!LSVCSQ9!!' .>0037P!57>!60-/.-257:09!%7!!B9!'<-6@8!  
L+>9Q9!)@0!`g/.->!I57>=.Z!./!B6.-4!57>!,0-/.-257:0!,18:@.0.P89!XOM!Y.-ZT!`g/.->!  
,-011T!669!SbVGSSES9!!

!

aS9 B40G ' 5-30T! I 9T!&5MT!W9T!\$ 8 2 50T! \*9 ' 9T! ` T!i9T! 1 500T! " 9T! **&8 ' 9::;** <=>% !?!LSVCSQ9! ` =10-J543.750!  
3740-J0743.71!/.-!2 .4.-!1Z300!005-737P!57>!60-/.- 2 57:0A! \*7!566030>!2 .>00!/.-!4@0!<10!./!  
.=10-J543.79!%740-7543.750!!\$0J30M!./!**B6.**-4!57>!+g0-:310!,18:@.0.P8T!CGFS9!!

!

aF9 **&8 ' 9::;** <=>% !9T!B40G ' 5-30T! I 9T! j !&5MT!W9!!LSVCa

!



!

&

ba9 N7<>1.7T!! I 9T! " 5->37509!W9i9T! j ! ' : " <005P@9! , 9!LSVSFQ!B874@0131!./! , <=03:543.7! ' 04-3:1!37!  
N37013.0.P8G\$00540>!i . <-7501A! , - . g301!/.-!\$3P. -T! # 15POT!57>!  
, -0143POT! k <014T! I ` %A!CV9CVcV^VFFHSDE9SVSF9SSFECbV!

!

**B 0 0 C 1**

%

+>340>!G!) 0 2 6037T!) 9T! [ -5=0-T!N9T! ' : " <005P@T! , 9!L37!6- .P-011Q9! " 5-00-1!37!16. -4T!/347011!57>!  
0g0- :310!LS#S!0>343.7Q9! 1 <257!N37043:19!!  
/#D/ . " - %! \* ! " 4 1 % ! 4 " 1 " # . " - !LX.4!37:0<>0>! .7!\* =14-5:4!&314Q!!  
\*9!\$0105-: @!

!

! " 0740-!/.-!\$0@5=3034543.7T!+g0-:310! j !B6.-4!B:307:09!#73J0-1348!./!(3:4.-35T! ' 00=. <-70T!  
\* <14-5035T!\* <P<14T!CDDb9!!  
!  
CC9! ! ' : " <005P@T!,9!` =10-J543.750!005-737PA!\* 6603:543.7!37T! K 0007011T!\$0@5=3034543.7!57>!B6.-4!  
B04437P19!N37013.0.P8!" .00. f<3<2 !B0-301T!d0=-<5-8T!CDDH9!

!

Sa9 ' : "<005P@T!,9!LSVVbQ9!K @54!4@08!100T! 2 58!=0!M@54!8 .<!P04A! I OJ00 .637P!6 .1343J0!- .00!  
2 .>001!37!8 .<4@!16 .-49!Y .<4@!B6 .-4!B< 2 2 349!B6-37P/300>! ' 5-:@9!

!

Sb9 ' : "<005P@T!,9!LSVVbQ9! I OJ00 .637P!6 .1343J0!- .00! 2 .>001!37!8 .<4@!16 .-49!N .-057!\*00357:0!  
/.-! I 0504@T! , @813:50!+><:543 .7T!\$0:-0543 .7T! j ! I 57:09!B0 .<0T!N .-05T!\* <P<149!

!

SH9

!

65700!6-01074543.7!54!HS7>! \*77<50!" .7/0-07:0!./!4@0!K0140-7!B. :3048!/.-!N37013.0.P8!  
57>!K0007011T!\$07.T!X(9!

!

FD9 N087.40!G!' : "<005P@T!,9!LSVCcQ9!N37013.0.P8!37!X.-4@!\* 20-3:5A!Y0140->58T!) .>58!57>!  
) .2.--.M!G!%740-7543.750!" .7/0-07:0!.7!N37013.0.P8G!B0.<0T!N.-059!

!

aV9 ' : "<005P@!LSVCcQ9!N37013.0.P8!57>!X.-4@!\* 20-3:57!57>!4@0!\* 20-3:57!N37013.0.P8!  
\*11.:3543.79!)@0!\* :5>023:!" .000P0!54!K37P540T!\*6-30T!%1-5009!!

!

aC9 ' : "<005P@T!,9!LSVCcQ9!`=10-J543.7!37!B6.-4A!I .01!M54:@37P!:@57P0!.<-!6@813:50!57>!  
618:@.0.P3:50!=0@5J3.-1U!%7J340>!N087.40!\!%740-7543.750!" .00.f<3<2!B6.-4!  
,18:@.0.P8T!X<0J.!&0.7T!' 0g3:..!L` :4Q9!!

!

aS9 N087.40!G!' : "<005P@T!,9!LSVSVQ9!\$0105-:@!4.!, -5:43:0!\!I .01!34!` : :<-!37!B6.-4!  
,18:@.0.P8U!  
+<- .6057!X04M.-Z!./!Y.<7P!B60:3503141!37!B6.-4!,18:@.0.P8!L+XYBB ,Q9! [ @074T!  
W00P3<2T!\*6-30!CH!4.!Cc9!"57:000>!><0!4.!" .J3>!CD!

!

aF9 N087.40!G!' : "<005P@T!,9T!j !+08T!d9!`9!LSVSCT!\*6-30Q9!\$0105-:@!4.!6-5:43:0!G!>.01!34!.. :<-!  
37!16.-4!618:@.0.P8U!N087.40!6-01074543.7!54!+<- .6057!X04M.-Z!./!Y.<7P!B60:3503141!37!  
B6.-4!,18:@.0.P8!L+XYBB ,QT!\*77<50!:.7/0-07:0T!6-010740>!J3-4<50089!

!

!

!

!

!  
!D9!! ' : "<005P@T!,9!+//0:43J0!: .5:@37P!005>0-1@369!" .0.-5>.!K . 2 07\_1!\*00!B4540!" .7/0-07:09!  
W.<0>0-T!" ` 9!i<70!CDcE9!  
!  
CV9!! ' : "<005P@T!,9!B6.-4!618:@ .0.P8A!, -5:43:50!: .713>0-543.71!/.-!: .5:@019!W.<0>0-! ( 50008!  
[ 3-01!B./4=5009!W.<0>0-T!" ` 9! ' 58!CDcE9!  
!  
CC9!! ' : "<005P@T!,9!&05>0-1@36!37!8.<4@!16.-4!6-.P-5 2 19!" .0.-5>.!\* 11.:3543.7!/.-! 1 0504@T!  
,@813:50!+><:543.7T!\$0:-0543.7! j ! I 57:09! I 07J0-T!" ` 9!B0649!CDcE9!  
!  
CS9!! ' : "<005P@T!,9!" .5:@37P!: .7:0-71!37!8.<4@!16.-4!6-.P-5 2 19!" .0.-5>.! I 0649!./!+><:543.7!  
G!+><:54.-1!/.-!\* 4@0043: !+f<348!57>!&05>0-1@369!W-0:Z07-3>P0T!" ` 9!\* 6-30!CDcc9!  
!  
CF9!! ' : "<005P@T!,9!B6.-4!618:@ .0.P8T!57>!16.-4!60>5P.P8T!" .0.-5>.!\* 11.:3543.7!/.-! 1 0504@T!  
,@813:50!+><:543.7T!\$0:-0543.7! j ! I 57:09! ( 530T!" ` 9! ` :49!CDcc9!  
!  
Ca9!! ' : "<005P@T!,9! I 0J00.637P!5!: .5:@37P!6@30.1.6@89!" .0.-5>.! I 065-4 2 074!./!+><:543.7!G!  
+><:54.-1!/.-!\* 4@0043: !+f<348!57>!&05>0-1@369! I 07J0-T!" ` T!i57<5-8!CDcD9!  
!  
Cb9! ' : "<005P@T!,9!\* 7!. J0-J30M!57>!57508131!./!: .5:@37P!0><:543.7!6-.P-5 2 19!Y.<4@!B6.-4!  
".50343.7!,-.P-5 2 T!\* 2 0-3:57!\* 00357:0!/.-! 1 0504@T!, @813:50!+><:543.7T!\$0:-0543.7! j !  
I 57:09!W.14.7T! ' \*9!\* 6-30T!CDcD9!\*!: . 2 65-31.7!./!4@0!\* " +, !57>!XYB " \*!Y.<4@!B6.-4!  
".5:@37P!,-.P-5 2 19!!  
!  
CH9!! ' : "<005P@T!,9!" .5:@01!4-53737P!37!4@0!16.-4!1:307:019!)@0!, 18:@ .0.P8!57>!, @30.1.6@8!./!  
".5:@37P9!\* 1607!B:@ . .0! I 314-3:4T!\* 1607T!" ` 9! ' 58T!CDcD9!  
!  
CE9!! ' : "<005P@T!,9! I 0J00.637P!5!: .5:@37P!6@30.1.6@8!57>!16.-4!618:@ .0.P8!/.-!: .5:@019!  
d347011!\$0!.-:01!K.-Z1@.6T! I 07J0-T!" ` 9!\*<P<14T!CDDV9!  
!  
Cc9!! ' : "<005P@T!,9!Y.<4@!16.-4!A!W08.7>!4@0!F!\$ 19!W.<0>0-! ( 50008!B:@ . .0! I 314-3:4!G!  
+3107@.MO-!B:@ . .0!G!!W.<0>0-T!" ` 9! ' 5-:@!CDDV9!  
!  
CD9!!

Sa9 ' : "<005P@T!,9!LSVSSQ9! 1 .M!4.!" .7/0-07:09!X\*B,B,\*!B4<>074!B6-37P!+J0749!`7!&370!  
'58!F9!K34@!i0778!`9!1.140>! =8!&5<-07!13PP3719!

!<br>
 !<br>
 \*=14-5:41^,-01074543.71!<br>
 !<br>
 C9! &8'9::;<=>%!?!T!j!&57>0-1T!I9'9!LCDEFQ9!B.:350!/5:3034543.7!57>!2.4.-!60-/.-257:0A!  
 I-3J0!1<22543.7!.-!37J0-40>G#U!!d3-14!"575>357!" .7P-011!/.-!4@0!'<043GI31:360375-8!  
 B4<>8!./!B6.-4!57>! ,@813:50!\*:43J348T!!69!SE9!L\*=14-5:4Q9!<br>
 !<br>
 S9! &8'9::;<=>%!?!LCDEcQ9!'>00!1454<1!51!5!>040-237574!./!5440743.7!37! .=10-J543.750!  
 005-737P9!"575>357! ,18:@.!' .4.-!&05-737P!57>!!B6.-4! ,18:@.0.P8!B826.13<2T!!  
 L\*=14-5:4Q9!<br>
 !<br>
 F9! &8'9::;<=>%!?!LCDcHQ9!'>00!B32305-348!51!5!>040-237574!./!5440743.7!37! .=10-J543.750!  
 005-737P9! ,18:@.0.P8!./!' .4.-!W0@5J3.-!57>!B6.-4T!69!CFD9!L\*=14-5:4Q9!<br>
 !<br>
 a9! &34400T!K9B9T!j!&8'9::;<=>%!?!LCDcEQ9!\*!: .265-31.7!./!2.>0037P!57>!Z7.M00>P0!./!  
 -01<0419! ,18:@.0.P8!./!' .4.-!W0@5J3.-!57>!B6.-4T!69!aS9!L\*=14-5:4Q9!!<br>
 !<br>
 b9! &8'9::;<=>%!?!T!j!W070>0443T!"9&9!LCDcEQ9!! ,.14GZ7.M00>P0!./!-01<041!>00589! ,18:@.0.P8!  
 ./!' .4.-!W0@5J3.-!57>!B6.-4T!69!ab9!L\*=14-5:4Q9!<br>
 !<br>
 H9! &8'9::;<=>%!?!T!j!&34400T!K9B9!LCDcEQ9!)@0!6.407:8!./!37/.-2543.7!6-.J3>0>! =8!J5-3.<1!  
 2.>5034301!37!2.>0037P9! ,18:@.0.P8!./!' .4.-!W0@5J3.-!57>!B6.-4T!69!aH9!L\*=14-5:4Q9!<br>
 !<br>
 E9! &8'9::;<=>%!?!LCDcEQ9!%1!5!63:4<-0!M.-4@!5!4@.<157>!M.->1U!!" .P7343J0T!>0J00.6207450!  
 j!2.43J543.750!: .713>0-543.71!37!2.>0037P9! ,18:@.0.P8!./!' .4.-!W0@5J3.-!57>!B6.-4T!69!  
 aGH9!L\*=14-5:4Q9!<br>
 !<br>
 c9! &8'9::;<=>%!?!T!j!"53->T!i9N9!LCDccQ9!\*!: .265-31.7!./!0g02605-8!57>!005-737P!10f<07:0!  
 2.>001!57>!4@0!<10!./!2.>00!!Z7.M00>P0!./!-01<041!4. !37:-0510!005-737P!57>!60-/.-257:09!  
 ,18:@.0.P8!./!' .4.-!W0@5J3.-T!!69!CCH9!L\*=14-5:4Q9!<br>
 !<br>
 D9! &8'9::;<=>%!?!T!X.-4@T!)9"9T!j!' .>T!I9!LCDccQ9!+g0-:310!51!5!4-0542074!/.-!>06-0113.7A!  
 \*!2045G575081319! ,18:@.0.P8!./!' .4.-!W0@5J3.-T!69cS9!L\*=14-5:4Q9!<br>
 !<br>
 CV9! &8'9::;<=>%!?!T!B430@0T!i9T!j!K0311T!'9\$9!LCDccQ9!IOJ00.6207450!: .713>0-543.71!37!

CS9! &8'9::;<=>!?! j !W05:ZM000T!W9!LCDccQ9!\$00543.71@36!./!03/0!14-011!5:4.-!157>!  
: . 2 604343J0!57g3048!4. !37]<-3019! \* 11. :3543. 7!/. -!4@0! \* >J57:0 2 074! ./! \* 66030>!B6. -4!  
.,18:@.0.P8!69!aS9!L \* =14-5:4Q9!

!

CF9! X. -4@T!)9 "9T!&8'9::;<=>!?! )-57T!p9 (9T! j !K 50Z0-T!B9+9!LCDccQ9!)@0!0//0:41!./!0g0-:310!  
. 7!>06-0113. 79! \* ! 2 045G575081319! ' 0>3:370!57>!B:307:0!37!B6. -4!57>!+g0-:3109!  
B<6600 2 074T!S!VT!B9Db9!L \* =14-5:4Q9!

!

Ca9! &8'9::;<=>!?!T!B430@0T!i9T! j ! " 53->T!i9!LCDccQ9!)@0!>85>3: !-00543.71@36!./!65-07450!57>!  
8. <4@!0g60:4543. 71A! \* 7!0g60. -54. -8!57508131!./!2 .43J01!57>!54434<>019! \* 2 0-3:57! \* 00357:0!  
/ . -! 1 0504@T!., @813:50!+><:543. 7!57>!\$0:-0543. 7T!69CSE9!L \* =14-5:4Q9!

!

Cb9! &8'9::;<=>!?! ' 0-3M054@0-T! \* 9T!B30P00T! I 9T!W34?0-T!+9T! [ 30057T!&9T! j !&34400T! K 9B9!LCDcDQ9!  
)01437P!57!. =10-J543. 750!005-737P!4. .0A!)@0!0//0:43J07011!./!B8=0-J313. 7!. 7!4@0!005-737P!  
./!5!407731!10-J0!=8!7. J3:0!60580-19! \* 2 0-3:57! \* 00357:0!/. -! 1 0504@T!., @813:50!+><:543. 7T!  
57>!\$0:-0543. 7T!L \* =14-5:4Q9!

!

CH9! &8'9::;<=>!?! j !&04@3T!B9!LCDcDQ9!)@0!: . 74-3=<43. 7!./!2 .>0037P!57>!Z7.M00>P0!./!  
-01<041!37!005-737P!451Z!14-540P3019!.,18:@.0.P8!./! ' .4. -!W0@5J3. -T!69Eb9!L \* =14-5:4Q9!

!

CE9! " 53->T!i9N9T! j !&8'9::;<=>!?!LCDcDQ9!, 0-:0643. 7G5:43. 7!57>! . P7343J0!-06-01074543. 71!37!  
4@0!. =10-J543. 750!005-737P!./!5!:8:03: !2 .4. -!65440-719!.,18:@.0.P8!./! ' .4. -!W0@5J3. -T!69!  
HD9!L \* =14-5:4Q9!

!

Cc9! &8'9::;<=>!?! ' 54?Z5737T!N9T! j ! ' <0>575>.T!X9!LCDcDQ9!)@0!-00543.71@36!=04M007!8. <4@!  
57>!65-07450!2 .43J01!/. -!16. -4!65-43:36543. 7T!60-:03J0>!: . 2 60407:301T!57>!: . 2 604343J0!  
57g30489! \* 11. :3543. 7!/. -!4@0! \* >J57:0 2 074!./! \* 66030>!B6. -4!.,18:@.0.P8!69!Eb9!  
L \* =14-5:4Q9!

!

CD9! X. -4@T!)9 "9T!&8'9::;<=>!?! j ! )-57T!p9 (9!LCDcDQ9!+//0:4!./!0g0-:310!T!69!ca9!  
L \* =14-5:4Q957>!618:@.4@0-560<43: !4-054 2 0741! . 7!>06-0113. 7A! \* ! 2 045G575081319! \* 11. :3543. 7!  
/ . -!4@0! \* >J57:0 2 074!./! \* 66030>!B6. -4!.,18:@.0.P8!

!

SV9! X. -4@T!)9 "9T!) -57T!p9 (9T! j !&8'9::;<=>!?!LCDcDQ9!+//0:4!./!5!137P00!10113. 7!./!0g0-:310!  
. 7!>06-0113. 7!00J00A! \* ! 2 045G575081319! \* 11. :3543. 7!/. -!4@0! \* >J57:0 2 074!./! \* 66030>!B6. -4!  
.,18:@.0.P8!69!cb9!L \* =14-5:4Q9!!

!

SC9! d. 140-T! (9&9T!&0W5-. 7T! [9&9T!&8'9::;<=>!?! j ! I 3:Z371. 7T! \* 9!LCDcDQ9!, @813.0. P3:50!57>!  
618:@.0.P3:50!: . 2 65-31. 7!./!4M. !00340!M. 2 07.1!1. : :0-!405 2 19!i. <-750!./! \* 66030>!B6. -4!  
B:307:0!\$0105-:@T! ( .09!FT!69!Eb9!L \* =14-5:4Q9!

!

SS9! &8'9::;<=>!?!T!W<-:@T! "9 I 9T! j !B30P00T! I 9!LCDDVQ9!" . --0:4!57>!100/G 2 .>0037P!57>!4@0!- .00!  
./!00>=5:Z!37!2 .4. -!1Z300!5: f<31343. 79!.,18:@.0.P8!./! ' .4. -!W0@5J3. -T!69!EC9!L \* =14-5:4Q9!

!

SF9! ' 54?Z5737T!N9T! j !&8'9::;<=>!?!LCDDVQ9! \* 7!37J0143P543. 7!./!60-1. 750!37J014 2 074!4@0. -8!  
57>!5>@0-07:0!4. !57!50-. =3: !0g0-:310!6-. P-5 2 9! \* 11. :3543. 7!/. -!4@0! \* >J57:0 2 074!./!

!

Sa9! 1571.7T!B9i9T!&8'9::;<=>%!?!j!) .782.7T!,9!LCDDVQ9!,18:@.1.:350!6-0>3:4.-1!./!54@0043:!  
37]<-8!37!4-5:Z!57>!/300>!54@00401A!\*!65-4350!4014!./!4@0!\*7>0-107!57>!K3003521!2.>009!





\* 11 . :3543 . 7! / . -!4@0! \* >J57:02 074! . /! \* 66030 >!B6 . -4! , 18 : @ . 0 . P8T

HC9 \$52T!X9T%

Ea9 Y57T!i9 1 9T! j !&8 ' 9::;<=>!?!LSVVSQ9! " @30>-07e1! 2 .43J543.7!37!6@813:50!5:43J348A! " <04<-50!  
37/0<07:019! \* 2 0-3:57! \* 00357:0!/. -! 1 0504@T! , @813:50!+><:543. 7T!\$0:-0543. 7T!57>! I 57:0T!  
\* 6-309!B57! I 30P . !L69!DVQ9!

!

Eb9 B . . 1 . . T!B9T! ) 5Z0 2 . 4. T!N9T! j !&8 ' 9::;<=>!9!LSVVSQ9! ' . >0037P!57>!3 2 5P0-8!51!  
3740-J0743. 71!/. -!1Z3001!5: f<31343. 79! \* 2 0-3:57! \* 00357:0!/. -! 1 0504@T! , @813:50!+><:543. 7T!  
\$0:-0543. 7T!57>! I 57:0T! \* 6-309!B57! I 30P . !L69!DVQ9!

%

EH9 &8 ' 9::;<=>!?!LSVVSQ9!) 05:@37P!4@0!374- . ><:43. 7! . /!16. -4!618:@ . 0. P8!4. !<7>0-P-5><540!  
14<>0741A!\$0: . 2 2 07>0>!5:43J34301!57>!56603:543. 719! \* 11. :3543. 7!/. -!4@0! \* >J57:0 2 074! . /!  
\* 66030>!B6. -4! , 18:@ . 0. P8T! ` :4.=0-T!) <:1. 79!B8 2 6. 13<2 !65-43:365749

!

cb9 ' : " <005P@T!,9!LSVCVQ9!#137P!2 .>0037P!4. !07@57:0!6@813:50!57>!618:@.0.P3:50!1Z30019!)@0!  
B6.-4!,18:@.0.P8!57>!B6.-4!B:307:01!" .7/0-07:09!&3P757.T!B5==35>.-.T!%45089!

!

ch9 \$0P57T! ' 9\$9T! j ! ' : " <005P@T!,9!LSVCVQ9!\*7508131!./!@. 2 .0.P.<1!-06-.><:43.7!37!  
:. 2 2 <7348!:.000P0!54@0043:1A!)@0!/.-P.4407!371434<43.79!,560-!6-010740>!54!4@0!577<50!  
:.7/0-07:0!/.-!4@0!X.-4@!\* 2 0-3:57!B.:3048!/.-!B6.-4! ' 575P0 2 074T!LX \* BB ' (T!) 5 2 659!

!

cE9 ' : " <005P@T!,9!LSVCCQ9!\$016.7>074!4. !B8 2 6.13<29%/!5!63:4<-0!31!M.-4@!5!4@.<157>!M.->1T!  
4@07!31!: . 2 =3737P!.=10-J543.7!57>!3 2 5P0-8!M.-4@!5!2 3003.7U!\*!18 2 6.13<2!.7!4@0!  
3740-5:43.7!=04M007!.=10-J543.7!57>!3 2 5P0-8!6-.:011019!" <2 2 37PT!iT! K 30035 2 19!BT!&5MT!

DE9

!

+ 4 \* # . 1 % # - % ! 4 0 3 " ' . 1 % # - % 4 " 1 " \* 4 ' , % 1 ( ! ! 0 4 . % \* 5 \* 4 - 1 %  
!
%740-750! j !+g40-750!!
!
\$ 857T!+9 I 9T! j ! ' : " <005P@T! , 9!L " . !G! , %Q9! \* 44-3=<43 . 7!57>!60- : 0643 . 7! . /! /543P<09!d5 : <048!\$0105- : @!  
[ -574!G!#73J0-1348! . /! " 503/ . -735T! I 5J31!CDEE9!LsbVVVQ9!  
!
' : " <005P@T! , 9!L , %Q9!%714-<:43 . 750! [ -574! , - . P-5 2 !G!%740P-5437P! : . 2 6<40-1!37!4@0!! : 0511- . . 2 !G!  
, -37:3600!157>! , -5:43:01! . /!d347011! " . <-10!G!#73J0-1348! . /! " . 0 . -5> . T!W . <0>0-9!CDcH9!LsbVVVQ9!!  
!
' : " <005P@T! , 9!L , %Q9!%714-<:43 . 750! [ -574! , - . P-5 2 !G!%740P-5437P! : . 2 6<40-1!37!4@0! : 0511- . . 2 9!  
#73J0-1348! . /! " . 0 . -5> . T!W . <0>0-9!CDcE9!LsbVVVQ9!  
!
' : " <005P@T! , 9!L , %Q9! \* ! : . 2 65-31 . 7! . /!J3>0 . 4560!3714-<:43 . 7!57>!6@813:50!6-5:43:0! . 7! / . - 2 !57>!  
5 : <-5:8!37!4@0!407731!10-J09!#7340>!B45401! ) 07731! \* 11 . : 3543 . 79!CDcc9!LsbVVQ9!  
!
&34400T! K 9T! j ! ' : " <005P@T! , 9!L " . !G! , %Q9! \* ! : . 2 65-31 . 7! . /! 2 . 43J543 . 750! . -3074543 . 7!57>!  
3714-<:43 . 750!14-540P301! . 7! / . - 2 !57>!5 : <-5:8!37!407731!9!#7340>!B45401! ) 07731! \* 11 . : 3543 . 7T!CDcc9!  
LsbVVQ9!  
!
' : " <005P@T! , 9!L , %Q9! ) @0!<10! . /!J3>0 . 4560!57>!3 2 5P0-8!4 . !07@57:0!1Z3000>!60- / . - 2 57:09! " 074-50!  
I 314-3:4! \* \* 1 , + \$ I ! \* M5->T!CDcDGDV9!LsCVVVQ9!  
!
' : " <005P@T! , 9!L , %Q9! ) 01437P!4@0!0//0:43J07011! . /!B8=0-J313 . 7! . 7!4@0!005-737P! . /!4@0!407731!10-J09!  
#7340>!B45401! ) 07731! \* 11 . : 3543 . 7T! ' 58!CDDV9!LsDbVQ9!  
!
' : " <005P@T! , 9!L , %Q9! , 18 : @ . 0 . P3:50!57>!1 . : 350! / 5 : 4 . -1!51!>040- 2 375741! . /!54@0043 : !37] <-3019! " . <7:30!  
. 7!\$0105- : @!57>! " -0543J0! K . -ZT!#73J0-1348! . /! " . 0 . -5> . T!i57<5-8T!CDDC9!LsFVVVQ9!  
!
W8-701T! K 9 " 9T!L " . !G! , %Q9! ' : " <005P@T! , 9!L " . G , %Q9! j ! I 3 : Z371 . 7T! \* 9!L " . G , %Q9! \* ! : . 2 65-31 . 7! . /!4@0!  
37:3>07:0!57>!10J0-348! . /!37] <-8! = 04M007! -5:0!M50Z37P! - <7737P!57>!1406637P9! \* <P<14!CDDC9!  
\$00= . Z!%740-7543 . 750!!&4>9!LsEVTDVCQ9!  
!
' : " <005P@T! , 9!L " . G , %Q9! j ! X . =00T!i9!L " . G , %Q9! ) @0!0//0:43J07011! . /!J3>0 . !45601! / . -!07@57:37P!  
407731!60- / . - 2 57:09! " 074-50! I 314-3:4! \* \* 1 , + \$ I ! \* M5->T!! \* <P<14!CDDC9!LsaVVQ9!  
!
' : " <005P@T! , 9! , 18 : @ . 0 . P3:50! / 5 : 4 . -1!57>!54@0043 : !37] <-89!d5 : <048!16 . 71 . -0>!#7>0-P-5><540!  
\$0105- : @! ` 66 . -4<7348! , - . P-5 2 9!X . J0 2 =0-T!CDDF9!LsCcVVQ9!  
!
' : " <005P@T! , 9!#7>0-P-5><540!\$0105- : @! ` 66 . -4<7348! , - . P-5 2 9!B60:350!B0 2 375-9! ` =10-J543 . 750!  
&05-737P! ) 0 : @73f<01!37!N37013 . 0 . P89!LsaVVVQ9!  
!
K 0311T! ' 9\$9T! j ! ' : " <005P@! , 9!LCDDFQ9!%7/0<07:0! . /! " . 637P! ' . >001! . 7!&05-737P9!B6 . -4!  
, 18 : @ . 0 . P8! \* : 5>0 2 89! \* \* 1 , + \$ I 9!LsCFVVQ9!  
!
&57>0-1T! I 9 ' 9! j ! ' : " <005P@T! , 9!L " . G , %Q9!#7340>!B45401! ` 08 2 63 : ! " . 2 2 344009!\$0105- : @! j !  
) -53737P!4 . !%7 : -0510! \* - : @0-1! , - . /3:307:8!37! " . 2 60437P!37!4@0!XOM! ` 08 2 63 : ! \$ . <7>9!LsSETcbH9!  
i57!CDDbG I 0 : !Db9!  
!

!  
' : "<005P@T!,9L,G%Q9!#7340>!B45401!` 08 2 63:!" . 2 2 344009!\$0105-:@!57>!) -53737P!4. !%7:-0510!  
\* -:@0-1!, 0-/. - 2 57:0!)@-. <P@!B00/! ' .>0037P9!LsFVTcSaQ9!i57<5-8!CDDH



' 50>575>.T!X9!, 5-43:36543.7!2 .43J01T!: . 2 604343J0!57g3048!57>!60-:03J0>!:. 2 60407:301!./!  
 :@30>-07!57>!65-0741!37!8.<4@!1 . : :0-9!Ld<7>0>QT!CDccGCDcD9!  
 !  
 &04@3T!B9! ) @0!37/0<07:0!./!2 .>0037P!.7!14-540P301!37!1Z3000>!60-/. - 2 57:09!Ld<7>0>QT!CDccGCDcD9!  
 !  
 B@5MT!B9! , 0-:03J0>!:. 2 60407:301!57>!:. 2 604343J0!57g3048!37!:@30>-07\_1!16.-49!Ld<7>0>QT!CDDVG

CDcC! ! " . 2 6300>!G! , 18:@ .0 .P8! ./!B6 .-4!57>! ' .4 .-!W0@5J3 .-!G! \* =14-5 :41!L)0 :@73:50!  
6- .>:43 .7! ./!5=14-5:41!/. -!\*77<50!" .7/0-07:0Q!

!  
!

CDcH! ! \$0J30M0-T!\*>J57:01!37! ' .4 .-! I0J00 .6 2 074!\$0105-:@9!  
! %X (%) + I! , ` B%)% ` X!

!  
!

CDEDGDV! [ <014!\$0J30M0-!G!i .<-750!./!B6 .-4! j !+g0-:310! , 18:@ .0 .P8!  
! L " -343:50!-0J30M!57>!1000:43 .7! ./!5-43:001!/. -!6<=03:543 .7Q!  
! %X (%) + I! , ` B%)% ` X!

!  
!

CDEcGDV! [ <014!\$0J30M0-!G!\$0105-:@!k<5-40-08!/. -!+g0-:310!57>!B6 .-49!  
B<6600 2 0749L " -343:50!\$0J30M!57>!1000:43 .7! ./!5-43:001!-00540>!4 .!4@0!1 . :350!  
618:@ .0 .P8! ./!60-/. - 2 57:0Q9!!  
! %X (%) + I! , ` B%)% ` X!

!  
!

CDcSGSVVb! [ <014!\$0J30M0-!G!i .<-750!./! ' .4 .-!W0@5J3 .-!  
! %X (%) + I! , ` B%)% ` X!

!  
!

CDcD! ! \$0J30M0-!G! I 3:43 .75-8! ./!4@0!B6 .-4!B:307:01T! 1 < 2 57!N37043:!, <=031@0-1!

!  
!

CDDCGDb! +>34 .-350!W .5->!G!)@0!B6 .-4! , 18:@ .0 .P314!  
! %X (%) + I! , ` B%)% ` X!

!  
!

CDDFGDH! B0:43 .7!+>34 .-!G! , 18:@ .0 .P8!G!\$0105-:@!k<5-40-08!/. -!+g0-:310! j !B6 .-4!

!  
!

CDDVGSVVD! +>34 .-350!W .5->!G!i .<-750!./!B6 .-4!57>!+g0-:310! , 18:@ .0 .P89!  
! %X (%) + I! , ` B%)% ` X!

!  
!

CDDcG! SVVH! +>34 .-350!W .5->!G!

SVCHG6-01074! +>34.-T!N37013.0.P8!) .>58!L.7G0370!25P5?370!./!4@0!\* 20-3:57!N37013.0.P8!  
\* 11.:3543.79!\$016.713=00!/.-!1.03:3437P!57>!M-3437P!5-43:001!/.-!5!f<5-40-08!.70370!  
25P5?3709!

```

!
!
! 01/. /0 #1%/##* . /0 # * )%10 ' /" . /"1%
!
CDcVgCf! ,<=03:543.7! I3-0:4.-!G!X.-4@!* 20-3:5!B.:3048!/.-!4@0!,18:@.0.P8!./!B6.-4!57>!
,@813:50!* :43J3489!" .->37540>!6<=03:543.7!./!)-3G577<50!XOM100440-!./!57!
5:5>023:!!-0105-:@!1.:3048!57>!10-J0>! .7!4@0!0g0:<43J0!>0:313.7!25Z37P! =.>8!./!
4@31!.-P573?543.79!
!
+&+ " )+ I!WY! ' + ' W+$B 1 % ,!` d!B ` "%+ )Y9!
!
CDcc! ! X. 237540>!4. !10-J0!51!,<=03:543.71^ ' 02=0-1@36! I3-0:4.-T!* 11.:3543.7!/.-!4@0!
*>J57:02074!./!*66030>!B6.-4!,18:@.0.P89! I + "&%X+ I!X ` ' %X * )% ` X9!!
!
CDccGcD! %7J340>!4. !10-J0! .7!,514!, -013>0741!" .<7:30!*>!1 .:!" . 2 234400!4. !>040-2370!
6.4074350!75201:@57P0!57>!/<4<-0!>3-0:43.71!./!X.-4@!* 20-3:57!B.:3048!/.-!4@0!
,18:@.0.P8!./!B6.-4!57>!,@813:50!* :43J3489!!
!
CDDV! ! X. 237540>!4. !10-J0!51!, -013>074!T!X.-4@!* 20-3:57!B.:3048!/.-!4@0!,18:@.0.P8!./!
B6.-4!57>!,@813:50!* :43J3489!
!
I + "&%X+ I!X ` ' %X * )% ` X9!
!
CDDVgDf! B.:350!,18:@.0.P8!" @53-T!* 11.:3543.7!/.-!4@0!*>J57:02074!./!*66030>!B6.-4!
,18:@.0.P89!$016.713=00!/.-!-P573?37P!B.:350!,18:@.0.P8!,-P-52!/.-!577<50!
200437P!57>!10-J37P!.7!4@0!+g0:<43J0!" . 2 2344009!+&+ " )+ I!WY!
' + ' W+$B 1 % ,9!
!
CDDSGDa! X. 237540>!4. !10-J0!51! ' 02=0-G54G&5-P0!.7!+g0:<43J0!W.5->!. /! I3J313.7!aET!
* 20-3:57!,18:@.0.P3:50!* 11.:3543.79! I + "&%X+ I!X ` ' %X * )% ` X!
!
CDDSGDa! X. 237540>!4. !10-J0!51!B0:-045-8!.7!4@0!+g0:<43J0!W.5->!. /!4@0!$0105-:@!
".71.-43<2!!* * 1 ,+$ I9!
!
+&+ " )+ I!WY! ' + ' W+$B 1 % ,9!
!
CDDS! ! X. 237540>!, -013>074!G!X.-4@!* 20-3:57!B.:3048!/.-!4@0!,18:@.0.P8!./!B6.-4! j !
,@813:50!* :43J3489!
!
I + "&%X+ I!X ` ' %X * )% ` X!
!
!
! CDDF! X. 237540>!B0:-045-8^)-051<-0-!G! I3J313.7!aET!* 20-3:57!,18:@.0.P3:50!
* 11.:3543.79!
!
I + "&%X+ I!X ` ' %X * )% ` X!
!
!
! CDDa! X. 237540>!, -013>074GX.-4@!* 20-3:57!B.:3048!/.-!4@0!,18:@.0.P8!./!B6.-4! j !
,@813:50!* :43J348!!
!
I + "&%X+ I!X ` ' %X * )% ` X!
!
!

```







SVVCGSVCV!! %7J340>!4. !-0J30M!P-5741!/. -!, -. P-5 2 !. /!4@0!B. :350!B:307:01!57>! 1 <2 5734301!  
 \$0105-:@!" .<7:30!./!" 575>5!  
 !  
 SVVCGSVCV! %7J340>!4. !-0J30M!P-5741!/. -!X543. 750!B:307:0! j !+7P3700-37P! [-574! , -. P-5 2 T!  
 \$0105-:@!" .<7:30!./!" 575>5!  
 !  
 SVVC %7J340>!4. !1<= 2 34!J3450!/. -!: . 713>0-543. 7!" B#!+g40-750!\$0J30M!)05 2 !\ " B#!&. 1!  
 \* 7P0001!  
 !  
 SVVFGSVVa d000.M!\$0J30M!" . 2 2 34400!" @53-T!\* :5>0 2 8!./!N37013.0.P8!57>!, @813:50!  
 ! +><:543.7!!  
 !  
 SVVaGSVvb " @53-T!d000.M!\$0J30M!" . 2 2 34400!" \* :5>0 2 8!./!N37013.0.P8!57>!, @813:50!  
 +><:543.7!  
 !  
 SVVb +g40-750!\$0J30M0-!\!, -. P-5 2 !37!N37013.0.P8!\!k<007e1!#73J0-1348T!" 575>5!  
 !  
 SVVH +g40-750!\$0J30M0-!\!, -. P-5 2 !37!N37013.0.P8!\! ' : ' 5140-!#73J0-1348T!" 575>5!  
 !  
 SVVc! &3531. 7!/- . 2 !X. -4@!\* 2 0-3:57!B. :3048!/. -!, 18:@.0.P8!./!B6. -4!57>!, @813:50!  
 \* :43J348!4. ! I 3J313. 7!aE!L+g0-:310!57>!B6. -4!, 18:@.0.P8Q!./!4@0!\* 2 0-3:57!  
 , 18:@.0.P3:50!\* 11. :3543.7!  
 !  
 SVCV! d000.M!\$0J30M!" . 2 2 34400!\!\* 11. :3543.7!./.-!\* 66030>!B6. -4!, 18:@.0.P8!  
 !  
 SVCS! +g40-750!\$0J30M0-!\!)07<-0!57>!, -. 2 .43.7!\! ' : ' 5140-!#73J0-1348T!" 575>59!  
 !  
 SVCF!

!





```

CDDHGDD! +00:40>!4.!W.<0>0-!d5:<048!*1102=08!
!
CDDHGDD +00:40>!4.!%740-:.000P3540!*4@0043:!" . 2 234400!G!W.<0>0-!d5:<048!*1102=08!!
!
CDDGGSVVb!!!!!! " .<7:30!./!" @53-1T!B:@. .0!./!+><:543.7!57>!*0030>!B4<>301T!" B#G 158M5->9!
!
CDDGGSVVb! ' 02=0-!./!B:@. .0!" .<7:30T!B:@. .0!./!+><:543.7!57>!*0030>!B4<>301T!" B#G
158M5->!
!
CDDGGSVVb!!!!!! ' 02=0-!" .<7:30!.7!)05:@0-!+><:543.7T!" B#G 158M5->9!
!
CDDGGSVVb! ' 02=0-!./!#73J0-1348!*4@0043:!" .<7:30!
!
CDDGGSVVC! ' 02=0-T!"% " !B<=G: . 2 234400!.7!" -343:50!)@37Z37P!" B#G 158M5->!
!
SVVVGSVVC %7J340>!51!.70!./!/<-G202=0-1!./!4@0!<73J0-1348!/5:<048!=8!4@0!+g0:<43J0!
". 2 234400!./!4@0!* :5>023:!B07540!4.!>0J00.6!54!-06.-4!.7!5:5>023:!1457>5->1!54!
"B#G 158M5->9!
!
SVVCGSVVS ". 2 234400!.7!$0105-:@!\!B457>37P!" . 2 234400!./!* :5>023:!B07540!" B#G
158M5->9!
!
SVVSGSVVF +00:40>!" @53-T!" . 2 234400!.7!$0105-:@T!" B#! 158M5->9!
!
SVVSGSVVF! ' 02=0-T!* :5>023:!B07540T!" B#! 158M5->!
!
SVVFGSVVb K *B"! \!*00!#73J0-1348!,057737P!" . 2 234400!./.-!#73J0-1348!* :.->34543.7T!" B#!
158M5->!
!
SVVFGSVVa K *B"! \!+J3>07:0!" . 2 234400T!" B#! 158M5->!
!!
SVVa! ! "@53-!\!" . 2 234400!4. !$0J30M!* ( ,T!" B#!+514!W58!
!
SVVSGSVVa #0. 2 ( # )-0. 240601.92 cmB 2 ( 5 )0J!JETq0. 24000. 240601.92 cmBT5000f ( G )T j TT61ETq0.92 c0SEB

```

!

!
   
SVCSGSVCa!!!! B00:40>!4. !10-J0! . 7! , -013>074350! ) 51Z!d . -:0!\! , 057737P!\! . -! I 31437 : 43 . 7!
   
!
   
SVCSGSVCF! B<=G: . 2 2 34400!\!B4-540P3:!, 057737P!" . 2 2 34400!\!" . 000P0! ./!+><:543.7!57>!!!
   
\* 0030>!B4<>301G!" B#!+514!W58!
   
!
   
SVCF! ' 02=0-!./!" . 000P0!\* ::-0>34543.7!" . 2 2 34400!
   
!
   
SVCF! "@53-!B05-:@!" . 2 2 34400!\!\* 11 . :3540! I 057!\!" . 000P0! ./!+><:543.7!57>!\* 0030>!
   
B4<>301!\!" B#!+514!W58!

!
   
)@0-0! 2 58!=0! . 4@0-!: . 2 2 34400!4@54!5-0!7 . 4!03140>9!

!
   
I 065-4 2 074!
  
!
   
CDcF! ` -P573?0>!X374@!\* 77<50!" 05-0!B 2 500!&0:4<-0!\!" #!W . <0>0-!
   
!
   
CDcHGcc!!!! +00:40>!51!\$0105-:@!" . .->3754 . -9! I 0649! ./!N37013 . 0 . P8!L%71434<40>!>065-4 2 07450!
   
\$0105-:@!W<000437G!>314-3=<40>!:5 2 6<1GM3>0Q!
   
!
   
L" . G: . .->37540>!G! I 065-4 2 07450! I . 7 . -1! , - . P-5 2 Q9!
   
!
   
L%71434<40>!d5 : <048!B0 2 375-!!" . 00 . f<3<2! , - . P-5 2 Q9!
   
!
   
L" . .->37540>! I 065-4 2 07450!i . <-750!" 0<=1Q9!
   
!
   
CDcH! ' 02=0-T!\*>!@ . : !<7>0-P-5><540!: . 2 2 344009!
   
!
   
CDcHGcc! \*>J31 . -8!" . 2 2 34400T! I 065-4 2 074! ./!N37013 . 0 . P89!
   
!
   
CDcc! ` -P573?0>!\* 2 0-3:57!\* 00357:0!/. -! 1 0504@T! , @813:50!+><:543.7T!\$0:-0543.7! j !
   
I 57:09! I 31437P<31@0>!B:@ . 05-! \* M5->!, -01074543.7T!d0=-<5-89!# 73J0-1348! ./!
   
" . 0 . -5> . !:5 2 6<19!
   
!
   
CDccGcD! [ -5><540!" . 2 2 34400T! I 065-4 2 074! ./!N37013 . 0 . P89!
   
!
   
CDccGcD! +J50<543.7!" . 2 2 34400T!\$06566.374 2 074!" . 2 2 34400T! I 065-4 2 074! ./!
   
N37013 . 0 . P89!
   
!
   
CDcDGDV! B05-:@!" . 2 2 34400T! I 065-4 2 074! ./!N37013 . 0 . P89!
   
!
   
"@53-!G!B60:350! ` 66 . -4<7348! I 3-09!
   
!
   
CDcDGDH! K 00/5-0!" . 2 2 34400T! I 065-4 2 074! ./!N37013 . 0 . P89!
   
!
   
CDDC! ` -P573?0>!--043-0 2 074!:0-0 2 . 7301!/. -!4M . !/5: <048! 2 0 2 =0-19!!
   
!
   
CDDS! B45-40>!# 7>0-P-5><540!N37013 . 0 . P8! ' 5] . -1!" 0<=!57>!37343540>!>065-4 2 07450!!
   
[ -5><543.7!" 0-0 2 . 73019!
   
!
   
CDDSGDF! B05-:@!" . 2 2 34400T! I 065-4 2 074! ./!N37013 . 0 . P89!
   
!

!

CDDFGDa! ,-.P-5 2!\$0J30M!,5700T! I 065-4 2 074!./!N37013.0.P8!  
!  
CDDaGDb! B05-:@!" . 2 2 34400T! I 065-4 2 074!./!N37013.0.P8!

,18:@.0.P3:50!W5131!. /! 1 < 2 57!, 0-/. - 2 57:0!L [ -5><540Q!  
" @30>-07!37!B6. -4A!, 18:@.0.P3:50! " . 713>0-543. 71!L#7>0-P-5><540Q!  
" -343:50! )@37Z37P!37! ' .4. -!W0@5J3. -!L#7>0-P-5><540Q!  
, 05Z!, 0-/. - 2 57:0!L#7>0-P-5><540Q!  
)@0!B6. -4!+g60-307:0!L#7>0-P-5><540Q!  
, -37:36001!57>!, -5:43:01!. /!d347011!L#7>0-P-5><540Q!  
, @30. 1. 6@8!. /!B6. -4!!

" 53->T!i9!W3.0.P3:50!2.43.7!60-:0643.7!57>!:..->37543J0!5:43.7!18140 2 1!37!4@0!.=10-J543.750!  
005-737P!./!5!:8:03:50!2.4.-!65440-79!#73J0-1348!./!" .0.-5>.T!W.<0>0-9!CDcD9!

!

W<-:@T! I 9!)@0!-.00!./!2 .>0037P!57>!5<P 2 0740>!/00>=5:Z!37!1Z300!5:f<31343.79!#73J0-1348!./!  
" .0.-5>.T!W.<0>0-9!CDcD9!

!

' 0-3M054@0-T!\*9&9!W0@5J3.-50!57>!618:@.0.P3:50!>3//0-07:01!37!05437P!>31.->0-1!=04M007!54@00401!  
57>!7.7G54@004019!#73J0-1348!./!" .0.-5>.T!W.<0>0-9!CDcD9!

!

B30P00T! I 9B9!\*!: . 2 65-31.7!./!2 .>0037P!57>!100/!2 .>0037P!/.-!07@57:37P!0//3:5:8!57>!  
60-/.-257:09!#73J0-1348!./!" .0.-5>.T!W.<0>0-9!CDDV9!L\$0105-:@!,-.]0:4Q9!

!

1 571.7T!B9i9!,-0>3:43J0!J5-35=001!37!54@0043:!37]<-8!57>!3007011A!\*!65-4350!4014!./!4@0!\*7>0-107!57>!  
K 30035 2 1!2 .>009!#73J0-1348!./!" .0.-5>.T!W.<0>0-9!CDDV9!

!

' 54?Z5737T!N9!\*7!37J0!43P543.7!./!60-1.750!37J0!4 2 074!4@0.-8!57>!5>@0-07:0!4. !57!0145=031@0>!  
0g0-:310!6-.P-5 2 9!#73J0-1348!./!" .0.-5>.T!W.<0>0-9!CDDC9!

!

B:@<140-T!"9!,@813:50!5:43J348!: . 2 2 34 2 074!37!: .000P0!14<>07419!#73J0-1348!./!" .0.-5>.T!W.<0>0-9!  
CDDV9!L\$0105-:@!,-.]0:4Q9!

!



! 5>008T!i9\*9!)M.G>3 2 0713.750!0.:543.7!j !>31457:0!:<0!37!1@.-4640-2!2 .4.-!2 0 2 .-89!#73J0-1348!  
./!" .0.-5>.T!W.<0>0-T!CDcE9!

!

\$58 2 .7>T!"9!%7:3>07:0!./!37]<-8!57>!:@57P0!37!( `S! ' 5g!37!0.M!57>!@3P@!3 2 65:4!50-.=3:1!  
/.00.M37P!4-53737P9!#73J0-1348!./!" .0.-5>.T!W.<0>0-T!CDcD9!

!

! 5-731:@/0P0-T! 1 9!\*!: . 2 65-31.7!./!37:3>07:0!./!37]<-8!57>!6@813.0.P3:50!:@57P0!!=04M007!  
4-53737P!6-.P-5 2 1!=510>!<6.7!@3P@!3 2 65:4!50-.=3:1!57>!-<7737P9!#73J0-1348!./!" .0.-5>.T!  
W.<0>0-T!CDDV9!

!

B0-J0>!51!5:<048!2 074.-!/.-!B.785!B..!1 . .T! [ 5=-300!K 301.7!57>! ' 3:@500!\$0P57!L500!10:<-0>!  
"B#!d.-P3J5=00!&.571Q!\*00!14<>074!6<=031@0>!4@03-!: . 2 60040>!-0105-:@!

%

%7!5>>343.7!%!@5J0!10-J0>!51!57!.<413>0!-0J30M0-!.7!5!7<2=0-!./!4@0101!/- . 2!"575>5!57>!  
\*<14-50359!

!

%

%

%

%

! =? - ?%I%% ' OI ' =;NM%

!

X.-4@T!)9"9!+g0-:310!51!5!4-054 2 074!/.-!>06-0113.7A!\*!2 0456575081319!L,@9 I9!+><:543.7QT!  
#73J0-1348!./!" .0.-5>.T!W.<0>0-T!CDcc9!

!

X.=00T!i9!)@0!37/0<07:0!./!2 .>0037P!.7!14-540P301!57>!451Z!486019L,@9 I9!+><:543.7Q!#73J0-1348!./!  
" .0.-5>.T!W.<0>0-T!CDDE9!

!

! =? - ?%G! ' O P P N K K L L % & L P Q L M !

!

CDDDG, -01074% %!5 2 ! ./407!51Z0>!4. !10-J0!51!57!0g40-750!-0J30M0-!/. -!:57>3>5401!=037P!:. 713>0-0>!



