



!  
!

"#\$!Q0II!V3-&G!

=:>A=@9A:>:B!

[\\$03-&GD4.8\\$054!](#)

@BB!LOT-G!N'\$U!N42'0!:BB@!

N(#030F)#'

9\$9\$0!%FF.\*!G' -&5-#5GU!64250.2&0GU!POG'!F#-R'2ROGU! -&5!0G' -P.2G(05!F#)ROGGOG!#0.-'05!')!G-IO!  
-&5!0IIOR'230! 8 052R-'2)&!4G0!  
!

---

=\$. \$:!\50&'2I\*!-&5!50I2&0!'(0!F#2 8 -#\*!F#)P.0 8!  
= \$. \$9! " 0I2&0!6) - .G!-&5!-.'0#&- '230!6) - .G!  
= \$. \$W!\ 8 F.0 8 0&'! (0! 8 )G'!32-P.0!G).4'2)&U!2&R.452&6! 8 )&2')#2&6!F-#- 8 0'0#GU!')! 8 0-G4#0!!!!!!  
2&'0&505!-&5!4&2&'0&505!R)&G0]40&ROG!  
=\$9\$W!%5-F'!2&G'#4R'2)&!-&5!50.230#!')!'(0!2&'0&505!-4520&R0!  
=\$9\$0!%GGGG!-4520&R0!R) 8 F#0(0&G2)&!  
=\$0\$9!%R'230.\*!..2G'0&!-&5!-G/!-FF#)F#2-'0!)F0&!-&5!R.)G05A0&505!]40G'2)&G!')!6-'(0#!

G)4&5!-&5!G-I0!I)#!F-'20&'!4G0\$! [-.R4.-'2)&! )I!F-'20&'AGFOR2I2R!&4'#2'2)&-.-!-&5!5#46!  
5)G2&6`50.230#\*!#0]42#0 8 0&'G\$!

!

H(-# 8 -R04'2RG` 1 2)F(-# 8 -R04'2RG!!

- H(\*G2R)R(O 8 2R-!F#)F0#20G!)I!5#46GU!0TR2F20&'GU!-&5!5)G-60!I)# 8 G!2 8 F)#' -&'!')!  
'(0!#-'2)&-!50G26&!-&5! 8 -&4I-R'4#0!)I!G'0#2.0!-&5!&)&AG'0#2.0!F#)54R'G\$!  
%FF.2R-'2)&! )I!F(\*G2R-!R(O 8 2G'#\*!-&5!5)G-60!I)# 8!

- [ #2'2R-.!-&-. \*G2G!-&5!-FF.2R-'2)&!)I!#0.03-&'!(0-.'(!GR20&ROG!.2'0#-'4#0!-&5!)'(0#!  
2&I)#8-'2)&!#OG)4#ROG!')!-&GC0#!GFOR2I2R!F-'20&'AR-#0!-&5`)#!5#46A#0.-'05!  
]40G'2)&G!-&5!F#)3250!03250&ROAP-G05!'(0#-F04'2R!#OR) 8 8 0&5-'2)&G!')!(0-.'(R-#0!  
F#)3250#G!)#U!C(0&!-FF#)F#2-'0U!'(0!F4P.2R\$!!

!

J 052R-'2)&' " 2GF0&G2&6U! " 2G'#2P4'2)&'!-&5!%5 8 2&2G'#-'2)&'!

- H#0F-#-'2)&U!52GF0&G2&6!-&5!-5 8 2&2G'#-'2)&'!IF#OGR#2F'2)&GF72(#2)0.27504501 (#-)0.0#=#!)'(0#!

, 00/.\*!.-P)#-' )#\*!0T0#R2G0G!-&5!-GG26& 8 0&'G!C2..!-RR)4&'!I)#!;W d!)I!'(0!I2&-!.-P!6#-50\$!!  
e 42aa0G!R)&R0#&2&6!-GG26&05!F#0A.-P!0T0#R2G0G!-&5`)#!#0-52&6! 8 -'0#2-.G! 8 -\*!P0!6230&!'-'  
-&\*!'2 8 0!'(#)46()4'!'(0!G0 8 0G'0#!-&5!C2..!P0!R)4&'05!-G!F-#!)I!'(0!C00/.\*!.-P!6#-50\$!!\!  
2G!0T'#0 8 0.\*!2 8 F)#'-&'!')!F#0F-#0!I)#!C00/.\*!.-P)#-' )#\*!0T0#R2G0G!-G!'(0\*!-RR)4&'!I)#!'(0!  
8 -S)#2'\*!)I!'(0!')'-!.-P!6#-50\$!!!  
!

! %!j!>MSW!k!:BB!  
! 1!j!;MSW!k!>MS@!  
! [!j!OMSW!k!;MS@!  
! " !j!WMSW!k!OMS@!  
! \_!j!1!WMS@!  
!

! "#\$%&'#( ')\$\*+,#-\$%+\*&'#\$.\* /,00\*1\$23.)\$#\*3"-0,"\$43%\*.)(#\$").\*)3\*5,\$/\*5,'\*6'""\$%7\*  
8,#-\$%+\*&'#\$.\*,"#9')\$\*'.)(#\$"):.\*)'(.\*)'+,#-.\$+\$.)\$%3"0;\*'"##3\*3)\*,"#9')\$\*

---

[!"#\\$%&' ' ' \(\)\\*+\(, -\)&\\$" . / + . 01&0\) //, 2#3\("#+\\*!](#)

!

!

H#)IOGG)#G! G(-..! -RROF'! -&! )II2R2-..! b&230#G2'\*! OTR4G0\$, 2'(! '(0! I)..)C2&6!  
OTROF'2)&GU! F#)IOGG)#G! -#0! ')! 50'0#82&0! C(0'(0#! -PG0&ROG! -#0! OTR4G05! )#!  
4&OTR4G05K!:?!%PG0&ROG!-#2G2&6!I#) 8!-4'()#2a05!#2FG!-C-#!I#) 8!'(0!b&230#G2'\*!)#!  
I#) 8!GF0R2-..!54'2OG!-'!'(0!b&230#G2'\*!G(-..!P0!OTR4G05\$!9?!%PG0&ROG!-#2G2&6!I#) 8!-!  
G'450&^G!R)&I2&080&!2&!-!( )GF2'-..!)#!)'(0#!2&A





[ O&G4#OG!<HO&-.'2OG?!

%R-50 8 2R!52G()&OG'!\*!C2..!#OG4.'!2&!--!#OI0##-.'!)!(O!%R-50 8 2R!N'-&5-#5G!-&5!  
V'(2RG! [ ) 8 8 2'00\$!|I!'(O!G'450&'!2G!I)4&5!642.'\*!)I!V'(2R-.-&5!H#)IOGG2)&-.  
8 2GR)&54R!'P\*!'(O!R) 8 8 2'00U!'(O\*!C2..!#OR0230!-!a0#)!)#!'(O!-GG26&05!F)2&'G!  
<6#-505!-GG26& 8 0&'!)#!'OG'?!-&5!4F!')!-&!f\_g!2&'! (O!R)4#G0!I#) 8 !'(O!R)4#G0!  
R))#52&-')#!2&!--552'2)&'!)-&\*!52GR2F.2&-#\*!-R'2)&!#OR) 8 8 0&505!P\*!'(O!%R-50 8 2R!  
N'-&5-#5G!-&5!V'(2RG! [ ) 8 8 2'00\$!!%R-50 8 2R!52G()&OG'!\*!2&R.450GU!P4'!2G!&'!  
.282'05!')U!'(O!4G0!)I!2&I)#8 -'2)&'!-/O&!I#) 8 !)'(O#G^!C)#/!)#!250-GU!'(O!F#)32G2)&  
)I!(O.F!')!)'(O#G!)&!&)&AR)..-P)#-'230!03-.4-'2)&G!<'OG'GU!]42aa0GU!O'R\$?U!  
R)..-P)#-'2)&'!&'!-/O!( ) 8 0!OT- 8 GU!)#!'(O!4G0!)I!4&-FF#)305!2&I)#8 -'2)&'!#!  
O.OR#)&2R!5032ROG!')!-GG2G'!2&'!)P'-2&2&6!-&GC0#G\$!!

!%!' 8 2&2 8 4 8 !U!G'450&'G!-#O!0TFOR'05!')!R) 8 F.0'0!'(O!  
)&A.2&0!R)4#G0!03-.4-'2)&'!-G!C0..!-G!-&\*!03-.4-'2)&'!-5 8 2&2G'0#05!2&R.-GG!P\*!'(O!  
[ )..060!)I!H(-#8 -R\*\$!  
!

\&I)#8 -'2)&!R)&R0#&2&6!G'450&'!G0#32ROG!2&'! (O! [ )..060!)I!  
H(-#8 -R\*!R-&!PO!I)4&5!2&'! (O! [ )..060!)I!H(-#8 -R\*^G!N'450&'!X-&5P))/\$!!\&!  
F-#'2R4.-#U!F-\*!' )!'(O!NR( )).^G!OR(&2R-.'!G' -&5-#5G!-&5!F).2R2OG!  
R)&R0#&2&6!G'450&'!G!C2'(!GFOR2-.'!&005G! !"#%&&&'()\*'+,(-"/012%-"/,+."#/012#\_3 !  
b + J !G'450&'!G0#32ROGU!G4R(!-G!N'450&'!N4RR0GG! [ O&'0#!<('FK`4. 8 \$054`R-GG`?U!  
[ )4&G0.2&6! [ O&'0#!<('FK`4. 8 \$054`R)4&G0.2&6R0&'0#`?U!-&5!N'450&'!X0-.'(!  
N0#32ROGU!2G!-3-2.-P.0!-'!'(O!I)..)C2&6!N'450&'!N0#32ROG!COP!G2'0!  
('FK`4. 8 \$054`G'450&'-II-2#G`\$!N'450&'!G!C2'(!GFOR2-.'!&005G!#0]42#2&6!  
-RR) 8 8 )5-'2)&G! J bNL!I)..)C!'(O!F#)ROGG!50GR#2P05!-'!  
('FK`#TCOP\$4. 8 \$054`F(-#8 -R\*`G'450&'`GFOR2-.&005G\$F5I\$!  
J O&'-.! , 0..&OGG!)&'! (O!b + J ! [ - 8 F4G!  
\I!\* )4!-#0!(-32&6!F#)P.0 8 G!C2'(!0 8 )'2)&-.'!U!G)R2-.U!-&5`)#!P0(-32)#-.!2GG40G!

)I!2&-RROGG2P.O!R.-GG#) ) 8 GU!FO# 8 2GG2)&!')!-452)'-FO!.OR'4#OGU!&)'OA'- /2&6!  
-GG2G' -&ROU! -&5!R) 4#GO!G4PG'2'4'2)&G\$!

!

?,)0\$@A\*34\*)<\$\*B#(9'),3''\*C+\$''#+\$'').\*34\*DEFG\*2%3<,I,).\*\$H\*#,.9%,+,'''),3''\*  
'&',''\*)\*'';2'%),9,2''''),''\*''\*\$#(9'),3''\*0\*2%3&%'+3%\*'9),5,);\*')<')\*\$9\$,5\$.\*  
4\$#\$\$'0\*4(''#.I\*,''90(#, '&\*4\$#\$\$'0\*03''''\*''#&%''').7\*J(%<\$%+3%\$I\*?,)0\$@A\*  
2%3<,I,).\*\$H\*#,.9%,+,'''),3''\*3\*,''90(#\$\$. \$H('0\*+, .93''#(9)I\*. \$H('0\*5,30\$''9\$I\*  
. \$H('0\*<'%'..+\$'')\*''#%\$)'0,') ,3''7\*4\*;3(\*\$''93('')\$%('0'/4(0\*.\$H('0\*<'%'..+\$'')\*  
3%\*&\$''#%-1'. \$H\*#,.9%,+,'''),3''\*20\$'. \$\*93''')9)\*=(#\$'')\*=\$%5,9\$.\*)\*  
KDL-KMG-NGK0\*3%\*)3\*4,0\$\*'93+20',')I\*5,..)\*// /7(0+7\$#(P).)0\$.H7!

!

!H.O-G0!#0320C!'(0!0 8 0#60&R\*!OGR-FO!F.-&!2&!'(0!  
R.-GG#)) 8 G!-&5!(-..C-\*G!)I!'(0!120&32..0!P42.52&6\$!! J )30!]42R/.\*!-&5!)#50#.\*!')!  
'(0!-FF#)F#2-'0!G'-2#C0..!-&5!0T2!'(0!P42.52&6\$L(0!800'2&6!F.-R0!I)#!'(2G!R.-GG!  
C2..!P0!'(0!I-#!0&5!)I!'(0!&#)'(F-#/2&6!.)!P0'C00&!120&32..0!-&5!1#)-58))#!  
1.35\$!!b&50#!&!)R2#R4 8 G' -&ROG!2G!'(0!0.03-' )#!' )!P0!4G05!I)#!0 8 0#60&R\*!  
03-R4-'2)&\$!!%&\*!G'450&'!&0052&6!-GG2G' -&R0!G( )4.5!&)'2I\*!'(0!F#)IOGG)#!  
28 8 052-'0.\*\$!!\_)#!0 8 0#60&R20GU!R)&'-R!'b&230#G2'\*!H).2R0!P\*!52-.2&6! AM: :!I#) 8!  
.-&5.2&OG!-&5! I#) 8 !RO..!F( )&OG\$!!!

!

!%..!RO..!F( )&OG!G( )4.5!P0!'4#&05!)II!54#2&6!R.-GG\$!!I!-'G'450&'!  
(-G!-'!&005!')!P0!R)&'-R'05!54#2&6!R.-GGU!(0'G(0!G( )4.5!.0-30!'(0!'0.0F( )&0!&4 8 P0#!  
)I!'(0!ZII2R0!)I!N'450&'!-&5!H#)IOGG2)&-.!% II-2#GU! = :>A=@9A=>BBU!C2'(' (0!FO#G)&!  
C( )!8 -\*!&005!')R)&'-R!'(08 !0 8 0#60&'.\*\$! [ 0..!F( )&OG!-#0!&)'!-...)C05!2&!'(0!  
R.-GG#)) 8!



J 00'2&6! " - 'OG! n !L2 8 OGK! 8 3 "#'; I\*Q\$#"\$.#'; \*4%3+\*LROO\*'7+7\*( " ), 0\*DORNO\*'7+7\*