

!

!" # !\$%!"& ' (# ")% (' " # % *)"!"& ' + # "
' + # , " - + + & ! ' . ") + ")% (" + / 0 (1) ! 2 ("
\$ 1 ! (' 1 (! ' " (2 * - 3 *) ! ' . " 0 3 2 (' ! - (\$ 4 "
5 ! ' 6 1 + 7 8 () (' 1 9 : "

!

\$%&' () * + & \$ (% !

& , - - . / ! 0 ! 1 2 1 3 4 . 3 0 5 4

"##!

"#V!

#B < 5WT 8#58N=!; : T!N8978 T!

Lk, 60!#Z!

62::63! ;0A! 8331! 72A@>AA37! 08,>:;! ; , 9! - , 7351!:3@; 1,6,B.!: ;0A! 8331!>A37!: ,!
A; , 9! =>?31263A!06A,! ;0?3! , ; 35!>173573?36,<37!<05:A! ,C! : ; 3!85021! /21@6>721B!
; , 9!53A305@;! ;0A!B2?31! , 8=3@:2?3!70:0! , 1! ; , 9!<A. @ ; , A, @206!73?36,< - 31:!
06, 1B!92:;! , ; 35!82, 6, B2@06!CO@: , 5A! /053!21:35:92137!017!0CC3@:;!@ , - <3:31@. D"#!!
& ;2A!1 , :3!9266!05B>3! ; ;0!2:!2A!2 - 3!C, 5!A:0:3A! , !@0: @ ; !><!92:;! ; ;3!2 - 3A!017!
@530:3!A:0:>:3A!80A37! , 1! ; ;2A!@ , 6608, 50:2?3! , 8=3@:2?3!3?2731@3D! ! \$!1!0772:2, 1!
: ; 2A!1 , :3!9266!05B>3! ; ;0!80A37! , 1! ; ;2A! , 8=3@:2?3!21C, 5 - 0:2, 1! ; ;353!2A!0!A:5, 1B!
05B> - 31:!: ;0!1 , :! , 16. !053! =>?31263A!1 , :!0863! , !83!@ , - <3:31: /!8>:;! ; ;0!80A37!
, 1!A@231@3! /0! =>?31263HA!85021!2A! - 06630863`!017! ; ;353C, 53! /! ; 3. !A ; , >67!1 , :!83!
0>: , - 0:2@066. ! A31: ! , ! =>?31263! CO@262:23A! ; ;0! <5, - , :3! 53@272?2A - ! ?35A>A!
53 ; 08262:0:2, 1 e 0A!2A! ; ;3!@>5531: !1, 5 - "V e 8>: !21A:307!83!<60@37!21! :530: - 31:!
CO@262:23A! 0@ @ , 5721B! : , ! ; ;325! 73C2@231@23AD! ! & ; 2A! 9 , >67! 53A: , 53! ; ;3! , 52B2106!
21:31: ! , C! : ; 3! =>?31263! =>A:2@3!A. A:3 - e 53 ; 08262:0:2, 1/!1 , :!<>12A ; - 31:D!

Q05: ! \$! , C! : ; 2A!1 , :3!9266!53?239! ; ;3! ; 2A: , 5. ! , C! : ; 3! =>?31263! =>A:2@3!A. A:3 - /!
21@6>721B! ; ;3! , 52B2106!21:31: ! , C!@530:21B!0!A3<050:3! =>A:2@3!A. A:3 - !C, 5! =>?31263A!
017! ; ; , 9! ; ;0!21:31: ! ; 0A! - , 5< ; 37!C5 , - !53 ; 08262:0:2, 1! ; , ! <>12A ; - 31:D! ! \$!
0772:2, 1/! 2! 9266! 53?239! ; ;3! ; 2A: , 5. ! , C! =>?31263! @ , - <3:31@. D! ! Q05: ! \$! 9266!
72A@>AA! ; , 9!07?01@37!53A305@ ; !017!53@31: ! *DRD! R><53 - 3! + , >5! 73@2A2, 1A!
A><< , 5: ! ; ;3!05B> - 31:!: ;0!A:0:3A!1337! ; , !@530:3! =>?31263!@ , - <3:31@. !A:0:>:3A!
80A37! , 1!A@231@3D! ! & ; 2A!Q05: ! 9266!06A, !21@6>73!0!72A@>AA2, 1! , C!53@31: !53A305@ ; ;!
07753AA21B!8, ; ; ;1!3>5, A@231@3!017!<A. @ ; , A, @206!73C2@231@23A!21! =>?31263A! ; ;0!
A ; , >67! ; 36!<60. !01!21:3B506! <05: !21!05B>21B! ; ;0! =>?31263A! A ; , >67! 1 , :!83!
:501AC35537! ; , !07>6: !@ , >5:A! /017!3?31!2C!0!A:0:3!7, 3A!@ ; , , A3! ; , !7, !A, /!5373C2121B!
A:0:3! =>?31263!A:0:>:3A! ; ;0!07753AA! ; , 9!0! =>?31263HA!@ , - <3:31@. !: , !A:017! :5206!
A ; , >67! 83! 3d0 - 2137D! ! Q05: ! \$\$\$! 9266! 05B>3! ; ;0! @>5531: ! A:0:3! A:0:>:3A! 053!
21A>CC2@231: !21!07753AA21B! =>?31263!@ , - <3:31@. D! ! \$!1!0772:2, 1/2: ! 9266!05B>3! ; ;0!
:501AC35! A:0:>:3A! 017! < , 62@23A! 53B05721B! ; ;3! <60@3 - 31: ! , C! 21@ , - <3:31:!
=>?31263A!21! - , A: !A:0:3A!B, !0B021A: ! ; ;3! , 52B2106! 53 ; 08262:0:2?3!21:31: ! , C! : ; 3!
=>?31263! =>A:2@3!A. A:3 - D! ! K21066. /! ; ;353! 9266!83!0!8523C!@ , 1@6>A2, 1D!

!

K' (%&h\$%g/ ; ; : <A\Y9 9 9D<8AD, 5B\9B8; Y<0B3A\Y5, 1:6213YA ; , 9A\ :33185021Y9, 5J\07, 63A@31:D ; ; - 6!
^60A: !?2A2:37!) 3@!Pc! /PU"Z_D!

! "#! ##\$!& , - - . !T32d135!]5D! = \$&6! +3) \$(3\$! , (-!C\$(2, *! . /O! \$2\$(34L! . &66\$(2! <+ \$+! , (-!X&2&6\$!
D/2\$(2), *! [" !Eh j d! h d! ' g k d! ZZ` /!ZZV^PU"[_D!

! " ^ ! # \$ \$! ' g)) \$ % a ! g & ! E h d ! / + & J 6 , / 1 , : 3 ! [/ ! 0 : ! c d !

! " V ! 7 - ! 0 : ! " U n ! + \$ \$! , * ! / ! T E * ' g g % ! N E R S j * ' % ! + & ' D ! (% !] * k g % \$ h g ! E %) ! + ' \$ T \$ % E h !] * R & \$ + g !
+ E h \$ K (' % \$ E H R !) \$ k s r \$ (% ! (K !] * k g % \$ h g !] * R & \$ + g ! ' g Q (' & R ! S \$ a S ! ' g + \$) \$ k s r T !) g r Q S & g ! R * ' a \$ % a !
+ (R & R ! P ! ^ P U " c _ / ! ; ; : < X Y 9 9 9 D @ = @ - D , 5 B Y < < 6 , 0 7 A Y @ = @ - Y 7 , @ > - 3 1 : A Y @ 0 6 2 C , 5 1 2 0 A \ 7 2 ? 2 A 2 , 1 \ , C \ => ? 3 1 2 6 3 \
=>A:2@3\53<, 5:A\ ; 2B ; \53@272?2A - \73A<2:3\A>5B21B\@ , A:AD<7CD!

!

PU"ZM! 89 : ; < : 57 => !% < 98 = 7 ; 8 # ? ! @ 7 = A . B C D 8 = 5 8 = . E! "#c!

\$D!!j E+ f a ' (* %) !E%) !S

"#[! #B<5WT8#58N=!; : T!N8978 T!

Lk, @!#Z!

?2,631:!=>?31263!@52 - 3!053!1, :!; ;3!1,5 - D

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "#Z!

@, - -2::37/! 92:; ,>:! 01.! @, 1A27350:2, 1! ,C! ;:3! =>?31263HA! @, - <3:31@.D^wc!!
E772:2, 1066./!I>3A:2, 1A!; 0?3!50536. !8331!502A37!53B05721B!9 ;3:;35!>?31263A!
1, ! - 0::35!::; 325!0B3!/053!3?31!@, - <3:31!: , !A:017!:5206^w!

R"!!!5G\$/W)+2/64!/K! . / O I \$2\$(34!, (-!W/^!72!R\$3, O\$!: 11*)\$-!2/!%&'\$(*)*\$+!

& ; 3!<521@2<63!::; 0:!0!73C31701:! - >A:!83!@, - <3:31!: , !A:017!:5206!@01!83!
:50@37!0A!C05!80@J!0A!A2d:331:;

"`U!

#B<5WT8#58N=!; : T!N8978T!

Lk, @!#Z!

3?06>0:2, 10##! ! \$C! :; 3! 73C31701:! 2A! 733 - 37! @, - <3:31:/! :; 3! <5, @33721BA!
@, 1:21>3/!8>:!C, 5!; ; , A3! 1, :! 733 - 37! @, - <3:31:/! - , A:!A:0:>:3A! <5, ?273!C, 5!0!
<352, 7! , C! :530: - 31:!: , ! 53A: , 53! @, - <3:31@3D##!! \$C! @, - <3:31@.! @011, :! 83!
0@; 23?37!/ - , A:!A:0:3A!A<3@2C.! 0!73C31701:! ->A:!83!72A - 2AA37!C, 5!; ; 3!@; 05B37!
@52 - 3! 0C:35! 0! A<3@2C237! <352, 7! , C! :2 - 3/! 3d@3<:! 2C! :; 3! 73C31701:! 53 - 021A!

"`P!

#B<5WT8#58N=!; : T!N8978 T!

Lk, @!#Z!

PU"ZM! 89: ; < : 57=>!%<98=7; 8#!@7=A . B C D 8 = 5 8 = . E! "`W!

::;01!053!; ;3!0@:2, 1A!, C!07>6:ADG^{c#}!!K21066./!21!C)**\$6!'!': * , S , O , /! : ; 3!+ , >5: ! ; 367!
::;0:!=>?31263A!@ , >67! 1 , :!83!A31:31@37! : , !62C3! 92: ; , >: ! <05, 63!C, 5!01 . !@52 - 3!
3d<602121B! : ; 0: !FA31:31@35A! - >A: !83!0863! : , !@ , 1A2735! : ; 3! - 2:2B0:21B! I >062:23A!
, C! . , >: ; DG^{c`}!

E772:2, 106! A><<, 5: ! C, 5! 6, , J21B! : , ! - , 7351! A@231@3! @ , - 3A! C5, - ! : ; 3!
+ , >5:HA!530A, 121B!21! C)**\$6! 9 ; 31!2:!07753AA37! : ; 3!A:0:3HA!05B> - 31: ! : ; 0: ! : ; 3!
+ , >5: !A ; , >67!@ , 1A2735! : ; 3!CO@: ! : ; 0: ! - , A: ! =>52A72@:2, 1A!066, 937!0! =>?31263! : , !
83!A31:31@37! : : !!

"`#!

#B<5WT8#58N=!: : T!N8978T!

Lk, @!#Z!

>1735A:01721B! ,C!::3!5,63! ,C!>A:2@3!A .A:3 - !<05:2@2<01:A!A>@;!0A!>7B3A/!::;3!
=>5./! 017! ::;3! <5,A3@>:,5m! ::;3! @0<0@2:!! :,! @,1C5,1:! 92:13AA3Am! 017! 01!
>1735A:01721B! ,C! 80A2@!@ ,1A:2:>:2,106!52B;:A!A>@;!0A!8321B!211,@31:!!>1:26!
<5,?31!B>26:.d!#!S,93?35!/0!CO@:>06!>1735A:01721B! ,C!::;3A3!CO@:,5A!2A!1,!:!
A>CC2@231:d!^!&;3!73C31701:! ->A:;!0?3!0!50:2,106!>1735A:01721B!21!,5735!:,!
50:2,1066.!<05:2@2<0:3!21!,13HA!,9!1!73C31A3nnA,-3::;21B!::;0!@011,!:83!
6305137/!8>:!73?36,<A!92:;!-0:>52:.d!^!!'3@31:!!A@231:2C2@!53A305@;!21C,5-A!>A!
::;0!::;3!2 - -0:>52:!! ,C!>?31263HA!06,13e83A273A!::;3!CO@:!:;0!- ,A!>?31263A!
21!::;3!>A:2@3!A.A:3 - !A>CC35!C5, - !A, - 3!A,5:!,C! - 31:06!26613AA!,5!21:3663@:>06!
72A08262:.!e <,21:A!:,!::;3!CO@:!:;0!>?31263A/!3A<3@2066.!:;,A3!>1735!::;3!0B3!
,C!C2C:331/!@011,!:83!@, - <3:31:d!^!

&;3!,1B,21B!73?36,<-31:!,C!>?31263AH!;,5-,106/!@,B12:2?3/!A,@206/!017!
3-,2,106!@0<0@2:23A!72A:21B>2A;3A!::;3-!C5,-!07>6:A!017!053!5363?01!::;325!
@,-<3:31@.!:;,!>1735A:017!017!<05:2@2<0:3!21!::;3!63B06!<5,@3AAD!^!!&;3A3!
@0<0@2:23A/!9;2@;!053!<53A31:!!21!0?350B3!C>1@:2,121B!07>6:A!8>:!!73C2@231:!!21!
=>?31263A/!@01!83!<60@37!21:,!9,!@0:3B,523AX!@,B12:2?3^!017!<A.@;,A,@206!
73C2@231@23Ad!^!!+,B12:2?3!72CC3531@3A!21@6>73!73C2@231@23A!21!::;3!90.!0!
=>?31263!::;21JA/!9;263!<A.@;,A,@206!72CC3531@3A!21@6>73!73C2@231@23A!21!
=>?31263AH!A,@206!017!3-,2,106!@0<08262:.d!^!!j,::;3!3A3!72CC3531@3A!0CC3@:!:;3!
=>?31263AH!F-0:>52:!!21!>7B3-31:G e 0!:35-!>A37!F:,!53C35!:,!::;3!@, - <63d2:!!
017!A,<;2A:2@0:2,1!,C!::;3!<5,@3AA!,C!2172?27>06!73@2A2,14-OJ21B!0A!2:!!2A!
0CC3@:37!8.!0!501B3!,C!@,B12:2?3/!3-,2,106!017!A,@206!CO@:,5ADG!^!!N;263!
::;3A3!@0<0@2:23A!-0:>53!C5,-!@;267;,7!::;5,>B;!07,63A@31@3/!F73?36,<-31:!

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "^^!

,C!;;2A!60@J!21!@0<0@2:..!;;0:!=>?31263!07?,@0:3A!;0?3!05B>37!C,5! .305A!;;0:!
=>?31263A! - 0 .!60@J!@ , - <3:31@3!:,!A:017!:5206/

"`V!

#B < 5WT 8#58N=!; : T!N8978 T!

Lk ,60!#Z!

@31:35A! ,C!::;3!85021"UW!017!053!F133737!C,5!@, - <63d!@, B12:2?3!0AJA!A>@;!0A!
21;282:2,1!3d3@>:2?3!C>1@:2, 121B!017!0::31:2, 1DG"U#!

\$1!0772:2, 1!::!<5, ?2721B!A><<, 5!:C, 5!::;3!CO@:!:; 0!:; ;3!<53C5, 1:06!@, 5:3d!2A!
>173573?36, <37!/ - , 7351!A@231@3!06A, !21C, 5 - A!>A!::; 0:!7>3!::; 2A!53B2, 1!8321B!
>173573?36, <37!/ ,::;35! 82, 6, B2@06! CO@: , 5A! A:3<! 21! : , ! 21C6>31@3! 73@2A2, 1!
- 0J21BD"U"!!&; 2A!53A305@;!0@@, >1:A!C, 5!@; 01B3A!21!@, B12:2, 1!::; 0:!@; 050@:352b3!
07, 63A@31:! 83; 0?2, 5D"UV"! &; 3A3! 82, 6, B2@06! CO@: , 5A! 21@6>73! 01! 21@530A3! 21!
7, <0 - 213! 53@3<: , 5A/! @; 01B3A! 21! ; , 5 - , 13! 63?36A! 017! 01! >173573?36, <37!
62 - 82@!A. A:3 - D"Uc!) , <0 - 213!2A!O!@; 3 - 2@06!C, >17!21!::; 3!85021!::; 0:!FOCC3@:A!
- 3 - , 5. !/@, 1@31:50:2, 1!/<5, 863 - !A, 6?21B!017! - 31:06!0AA, @20:2, 1A!@, 113@:21B!
0@:2, 1A!017! <630A>53!21!::; 3!C5, 1:06!6, 83DG"U"!! j 5021!2 - 0B21B! ; 0A!A; , 9 1!01!
21@530A3! 21! 7, <0 - 213! 63?36A! 21!::; 3! 07, 63A@31:! 85021! OCC3@:21B! C33780@J!
6305121B! A31A2:2?2: .! : , ! A, @206! 3?06>0:2, 1! 017! 6, AA! 017! 21@31:2?34752?31!
53A<, 1A3AD"UZ"!!&; 2A!21@530A3!21!7, <0 - 213!/@, ><637!92:; ;! , 5 - , 106!2 - 80601@3!
06A, !A:3<!21!::; !21C6>31@3!73@2A2, 1! - 0J21B!21!<60@3! , C!::; 3!>173573?36, <37!<534
C5, 1:06!@, 5:3d!017!3d<6021A!9 ; . !07, 63A@31:A!3A<3@2066 . !053!21@62137!::; 15390574
A33J21B! , 5! A31A0:2, 14A33J21B! 83; 0?2, 5D"U"!! S , 5 - , 106!2 - 80601@3! 83B21A! : , !
, @>5!7>521B!07, 63A@31@3! 92: ; !A>5B3A! , C! : 3A: , A:35, 13!017!3A:5, B31D"U"!! EA!
3?31!07>6:A!@01! : 3A:2C. !: , /!::; 3A3! ; , 5 - , 13A! ; 0?3!0!7253@: !3CC3@: !, !173@2A2, 1!
- 0J21BD"U"!!K21066. /!::; 3!62 - 82@!A. A:3 - /!@, - <52A37!<52 - 0526. ! , C!::; 3!1>@63>A!
0@> - 831A! ; 2<<, @0 - <>A! ; . < , : ; 060 - >A!2A!0AA, @20:37!92: ; !<5, @3AA21B!017!
- 010B21B! 3 - , :2, 1AD"U"!! &; 2A! A. A:3 - !06A, !A:3<A! 21! : , ! @, - <31A0:3! C, 5! : ; 3!
>173573?36, <37!<534C5, 1:06!@, 5:3d"U"!!S , 93?35!/: ; 3!62 - 82@!A. A:3 - !2A!06A, !A:266!
- 0:>521B!21! =>?31263A! - 30121B! : ; 353!2A!01!2 - - 0:>53!A. A:3 - ! , C! - 010B21B!
3 - , :2, 1A! - 0J21B!3d3@>:2?3!C>1@:2, 1!73@2A2, 1AD"U"!! &; 3!3CC3@: !2A!2 - <>6A2?3!

!

! "UW"! TG)2S!C, 22\$6!56, 32+!E%E&(TOj (s!^)>13!P"!PU"PU"! ;::<XY9 9 9D010: , - .8, d0@, - Y9 ; 2:3
4 - 0::354:50@:AYD!
! "U#D! h3836! i ! j 30>623>!+&I6, /1 , :3!Z#!0:"UZ#WD!
! "U"! #\$\$!%E&Hh!]*k g%\$hg!]*R&\$+g!%g&N (' f!+&I6, /1 , :3!`V!0!:#D!
! "UV"! 7-!
! "UcD! g62b083:;!R@ , ::!3!060!R6,)(!HS '\$*/IO\$(2!#/3), *! . / (2\$`2V!, (-!%&+2)3\$!D/*)34!`c!NERSD!
*D!]:hd! i !Q (h!O!"W!PP!PU" [_D!
! "U[D! + (EhD!K (' !]*k g%\$hg!]*R&\$+g!+&I6, /1 , :3!VU!0!:`4VD!
! "UZ"! #\$\$!R@ , ::!3!060!+&I6, /1 , :3!"UcD!
! "U"! 7-!
! "U"! 7-!
! "P"! 7-!
! "W"! #\$\$! ' 017! R931A, 1! NS '\$^! /K! . *) (3, *! , (-! X&(32)/(, *! = \$&6/+3)\$ (3\$!) E' &T (* &S!
Tg)\$+Eh!R+S ((h!PUUV_! ;::<AY9 9 9D705: - , >; D37>Yt5A931A, 1Y%3>5, R@2Y@; 0<:35!VD; : - 6D!
! "W"! #\$\$!hE'R (%!g&!EhD!+&I6, /1 , :3!c!0!:"W4"#!D!
! "U"! #\$\$! T0520 - ! E5201! 3! 060! C, 2&6, 2)/(/K! 2G\$! : - /*\$+3\$(2! R6,)(/! %
)SRgERg! E%)! &'gE&Tg/T T^E&5D! W! PU"W_! ;::<AY9 9 9D1@82D16 - D12; DB, ?Y< - @Y05:2@63AY
QT+WVP"V#[YD!

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "`c!

83;0?2,5!017! - , , 7!A921BAD""V!!&;3!

"` [!

#B<5WT8#58N=!; : T!N8978 T!

Lk, @!#Z!

017!CO - 26206!21C6>31@3A"PV!017!, @>5531@3AD"PC!!E772:2, 1066./!; 2A!21:35:92121B!
2A!0<<0531:!C5, - !; 3!h3836!R:>7./!9 ;2@; !A; , 937!; :0;!; 3!73?36, < - 31;! , C!; 3!
OAA, @20:2, 1!:50@:A!; :0;!A><<, 5:!@, - <63d!@ , B12:2?3!<5, @3AA21B!2A!21C6>31@37!8. !
@, - <63d! 017! 73 - 01721B! 62C3! 3d<35231@3A! 21@6>721B! 37>@0:2, 1! 017!
A, @206!CO - 26. !5360:2, 1A; 2<AD"PI!!K>5; ;35 - , 53/!; ; 3!h3836!R:>7. !A>BB3A:37!; ;0;!
A, @206! 017! 3 - , :2, 106! 3d<35231@3A! 7>521B! 73?36, < - 31;! - 0. ! 21C6>31@3!

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "`Z!

C>5:; 35!A><<,5!:; 0!>?31263A!053!1, :!@0<0863!, C!8321B!@, - <3:31:!/017!9; :!
@, >5:A!017!63B2A60:, 5A!A; , >67!:0J3!1, :2@3D!!

"VU!

#B<5WT8#58N=!; : T!N8978T!

Lk, @!#Z

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "V"!

& , - - .!+&I6, D" `#!!&; 3!53A>6:A! , C!01 , ; ; 35!A:>7 .!06A , !<5 , ?273A!21C , 5 - 0:2 , 1!
08 , >: ! : ; 3! 3CC3@: ! 0! =>?31263HA! 85021! ; 0A! , 1! @ , - - >12@0:2 , 1! 92: ; ! @ , >1A36/!

"VP!

#B < 5WT 8#58N=!; : T!N8978 T!

Lk ,60!#Z!

: "!!#2, 2&2/64!N\$-\$K)()2)/(!/K!56, (+K\$6+!, (-! . /O!\$2\$(34!#2, 2&2\$+!

EA!72A@>AA37!+&I6, /!A, - 3!A:0:3A!;0?3!:501AC35!A:0:>:3A!;:0!0>:, - 0:2@066.! :501AC35!0!>?31263!21:, !07>6:!!@, >5:!80A37!, 1!::;3!OB3!, C!::;3!>?31263!, 5!::;3! @52 - 3!@, - - 2::37!/92::, >:;!01. !3?06>0:2, 1!0A!;, !9; 3; 35!::;3!>?31263!2A!3?31! @, - <3:31!:!, !A:0!7! :52060^{vu}!! E772:2, 1066./! - , A: A:0:3A! ;0?3! 1, !A:0>:, 5. ! B>2701@3!, 1!;, 9!:, !73:35 - 213!9; 3::;35!0!>?31263!2A!@, - <3:31!:!, !A:0!7!:5206! 017!::;3!C39!::;0!7, !;0?3!1, !>A37!A@231@3!:, !21C, 5 - !::;3 - D^{vu}!!&;2A!;0A!::;3! 3CC3@:!, !C!Fo<5, @3AA21BH! @; 267531!017!21@05@350:21B! @; 267531! 9; , !A; , >67!83! 2731:2C237!017!53 - , ?37!C5, - !::;3!<5, @3AA!, C!@52 - 2106!<5, A3@>:2, 1DG^{VP}!! j .! 066, 921B!>?31263A!;, !83!:5237!0A!07>6:A!/:; 2A!<35<3>0:3A!83; 0?2, 5!; 0: !@>A3A! =>?31263A!;, !B3!:@>B; :!><!21!::;3!@52 - 2106!>A:2@3!A. A:3 - D^{vu}!!&501AC35!A:0>:3A! 7, !1, :!0@@, >1: C, 5!::;2A/! 1, 5!::;3!<, AA28262. :!::;0!A2 - <6. !B5, 921B!><!/ 92::; ! <5, <35!A><<, 5:!/@, >67!362 - 210:3!::;2A!@52 - 2106!83; 0?2, 5D!!!&;3. !A; , >67!32::;35! 83!362 - 210:37!@, - <63:36. !, 5!A3?3536. ! - , 72C237D!!E!::;3!630A:/!6, , J21B!;, !:;3! T0@E5; >5!R:>7. !/93!A; , >67!362 - 210:3!:501AC35!A:0>:3A!C, 5!>?31263A!>1735! A2d:331!. 305A!, C!OB3D!!S, 93?35/!2C!93!053!B, 21B!;, !J33<!:; 3A3!:501AC35!A:0>:3A! 63B2A60:>53A! A; , >67! 53I>253! 0! @, - <3:31@. ! 3?06>0:2, 1/ 06, 1B! 92::; ! 0! 5373C212:2, 1!, C!@, - <3:31@. !A:0>:3A!;, !0@@, >1: C, 5!>?31263!83; 0?2, 5!7>3!;, ! 60@J!, C! - 0:>52. :D!!\$1!0772:2, 1/ 139!A:0>:3A!A; , >67!83!@530:37!::;0!OCC, 57! B530:35!<5, :3@:2, 1A!;, !<53?31!:21@, - <3:31!>?31263A!C5, - !8321B!<5, @3AA37! ::;5, >B; !::;3! @52 - 2106! =>A:2@3! A. A:3 - ! 0A! 2C! ::;3. ! 9353! @, - <3:31:D^{vu}#! ' 3@, - - 3170:2, 1A!C, 5!;, 9!:, !7, !:;2A!053!80@J37!8. !A@231:2C2@!3?2731@3!, 1! ::;3!>?31263! 85021! 017! 80A37!, !1 9; 0: !2A! 83A!: C, 5! 8, ::; !::;3!>?31263! 017! A, @23: .D^{vu}!!&;3A3!53@, - - 3170:2, 1A!A; , >67!1, :!B, !>11, :2@37!8. !@, >5:A!017! 63B2A60:, 5AD!

&; 3!05B> - 31: C, 5!5373C2121B!, 5!A2 - <6. !@530:21B!@, - <3:31@. !A:0>:3A!;:0: ! 0<<6. !A<3@2C2@066. !:, !>?31263A!2A!0!A:5, 1B!, 13D!!K, 5!. 305A!A@; , 605A!;0?3!05B>37! ::;0:!:; 3!63B2A60:>53A!017!@, >5:A!A; , >67!83!@, 1A273521B! 1, :!, 16. !:;3! - 31:06! 26613AA!, 5! - 31:06! 72A08262. :!, C!>?31263A! 8>:! 06A, !:;3! , :; 35! @, B12:2?3! 017!

!

! "VU"! #\$\$% E&Hh!] * k g% \$h g!] * R&\$+ g!% g&N (' f /!+&I6, !1, :3!` Vm!

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "VW!

<A . @ ; , A , @206!73C2@231@23A!72A@>AA37!+&I6, D"VV!!& ; 0: !2A!83@0>A3! - 01 . !>?31263A!
053! F>12731:2C237! 21@ , - <3:31:ADG"Vc! ! +>5531:6. /! A , - 3! A:0:3A! ; 0?3! @530:37!
=>?31263!@ , - <3:31@ . !A:0:>:3A! ; 0:!, 16. !21@6>73!A<3@2C2@!C>1@:2, 106!08262:23A! ; ,!
73:35 - 213! @ , - <3:31@ . D"Vl! ! K>1@:2, 106! 08262:23A! 9 , >67! 21@6>73! 9 ; 0:! 01!
2172?27>06!2A!0863! ; , !0@@ , - <62A ; /!A>@ ; !0A!3d<6021! 9 ; , ! ; 3!<60 . 35A!053!21! ; ; 3!
@ , >5:5 , , - D"VZ!!& ; 2A!@01!83!<5, 863 - 0:2@!83@0>A3!A , - 3! , C! ; 3!08262:23A!@01!83!
0@@ , - <62A ; 37! 8 . !5 , :3! - 3 - , 52b0:2, 1!^C0@:>06!>1735A:01721B_!2B1 , 521B! ; ; 0:
; ; 3!>?31263!7, 3A!1 , :! ; 0?3!31 , >B ; >1735A:01721B!017!08262: . ! ; !92 ; A:017!:5206!
017!0AA2A:!21!0!<5 , <35!73C31A3!^50:2, 106!>1735A:01721B_D!!\$1A:307!/!@ , - <3:31@ . !
A:0:>:3A!A ; , >67!73C213!85, 0735!@ , B12:2?3!@ , 1@3<:A! 9 ; 2@ ; !053! ; ; 3!@ , B12:2?3!

"V#!

#B < 5WT 8#58N=!; : T!N8978 T!

Lk, 6!#Z!

72A<, A2:2, 1A e 72A - 2AA06!, C!@; 05B3A/!362B28262: .!C, 5!@2?26!@, - - 2: - 31: e 21!; ; 3!
=>?31263! => A:2@3!A . A:3 - !@01!1, !6, 1B35!83!, CC3537!8. !; ; 3! => ?31263! => 7B3!, 5!; ; 0:
A, @23: .! @, 1A2735A! ; ; 3! : . <3! , C! @52 - 3! ; ; 3! => ?31263! 90A! @; 05B37! 92: ; ! 0A!
73A35?21B! <> 12A; - 31!:50: ; 35!; ; 01!53; 08262:0:2, 1D^{cc}!!&; 2A!2B1, 53A!; ; 3!53@31!
A@231:2C2@! 53A305@; ! ; ; 0: - 01. ! => ?31263A! - 0. ! 1, :! 83! @0<0863! , C! 8321B!
@, - <3:31!017!7, !1, :!A:017!0!@; 01@3!21!07>6: !@, >5:D! \$1!0772:2, 1/!53A305@; !
A; , 9A! ; ; 3!3CC3@:A! , C!A31721B!0! => ?31263! : , !07>6: ! <52A, 1! ; 0A! 8, ; ; ! C2101@206!
@, 1A3I>31@3A!; , !A, @23: . "c^l!017!<5, - , :3A!53@272?2A - D^{cz}!!EA!, 13! => 7B3!A:0:37!
FO!@; 267!2A!>162J36. !; , !A>@@337!21!; ; 3!6, 1B!/72CC2@>6: !<5, @3AA!, C!53; 08262:0:2, 1!
9 ; 31! ; 2A! :30@; 35A! 7>521B! ; 2A! @, 1C213 - 31: ! 053! 07>6: ! @52 - 2106ADG^l!! &; 2A!
0<<5, 0@; !06A, !2B1, 53A!; ; 3!CO@:!: ; 0: !A, - 3! => ?31263A!@01!83!53; 08262:0:37/!3?31!
A, - 3! , C!; ; 3! - , 53!?2, 631: !, 13AD^l!!&; 3!A:0:>:3A! 9 , >67!83!<5, <356. ! - , 72C237!
8. ! - 0170:21B!0! - 31:06!; 306: ; !<5, C3AA2, 106!; , !73:35 - 213!9 ; 3: ; 35!0! => ?31263!2A!
@, - <3:31: !, !83!501AC35537!; , !07>6: !@, >5: !80A37!, 1!0!@, - <3:31@ . !3?06>0:2, 1!
1, :!0: !; ; 3!72A@53:2, 1!, C!) 2A:52@: !E:: , 513 . AD^l!!

PU"ZM! 89 : ; < : 57 => !% < 98 = 7 ; 8 #?!@7 = A . B C D 8 = 5 8 = . E! "V^!

;0A! A3:! :;3! A:017057! ,C! <5, ?21B! @, - <3:31@. ! 8. ! 0! <53<, 173501@3! , C! : ; 3!
3?2731@3/! : ; 3!@ , 1A:2::>:2, 106!C6 , , 5!A ; , >67!83!502A37D!!E772:2, 1066. /! : ; 353!@ , >67!
83!0!<53A> - <:2, 1! : ; 0! => ?31263A!053!21@ , - <3:31!/A ; 2C:21B! : ; 3!8>5731! , C!<5 , , C!
: , ! : ; 3! B , ?351 - 31! : , ! <5, ?3! : ; 0! : ; 3! => ?31263! 2A! @ , - <3:31!D"IV! ! E1 , : ; 35!
<5 , :3@:2, 1!9 , >67!83! : , !53I>253!0!609 . 35! : , !83!<53A31!7>521B! : ; 3!@ , - <3:31@. !
; 30521BA/!3A<3@2066. !@ , 1A273521B! : ; 0:21! - 01 . !=>52A72@:2, 1A! => ?31263A!053!B2?31!

"VV!

#B<5WT8#58N=!:;: T!N8978 T!

Lk, @!#Z!

21@6>73A! A31721B! ; ; 3 - ! : , ! =>?31263! 73:31:2, 1! ; 066! >1:26! ; ; 3 .! 053! 733 - 37!
@, - <3:31:D"Z"!! * 1C, 5:>10:36 ./! ; ; 3A3!CO@262:23A! ,C:31!CO26! : ,! - 33!: ; ; 3!B, 06! ,C!
53; 08262:0:2, 1!017!21A:307!/! - , 53! ,C:31! : ; 01! 1 , : /!21C62@: !0772:2, 106!<021!017!
A>CC3521B!, 1! : ; 3! =>?31263!/!<5, - , :21B!53@272?2A - !50; ; 35! : ; 01! : ; 3! , 52B2106!21:31!
 ,C! : ; 3! =>?31263! A. A:3 - e 53; 08262:0:2, 1D"ZV"!! \$1! 0772:2, 1/! - 01 .! A:0:3A! ; 0?3!
A:0:>:3A!62 - 2:21B! ; , 9!6, 1B! =>?31263A!@01!83! ; 367!0!: ; 3A3! =>?31263!73:31:2, 1!
 ; 066AD"Zc"!! & ; 2A! @530:3A! 01!2AA>3!A21@3! - 01 .! =>?31263! ,CC31735A! - 0 .! 1 , :!83!
@, - <3:31:IC, 5! .305A!7>3! : ,!73C2@231@23A!72A@>AA37!+&I6, D"Zl"!!& ; 31! : ; 3!I>3A:2, 1!
2A! 9 ; 0!: , !7, !92: ; !: ; 3A3! =>?31263AD"ZZ"!! (13!A, 6>:2, 1!2A! : , !3d<017! : ; 3!@ , >5:HA!
 , <:2, 1A! : , !066, 9!C, 5! , : ; 35! :530: - 31 :!A35?2@3A"PUU"!!017!<35; 0<A!0!53C, 5 - !, C! : ; 3A3!
CO@262:23AD"PU"!! & ; 2A! 2A! 83@0>A3! 92: ; !: ; 3! >17356 .21B! 530A, 1! C, 5! 0! =>?31263HA!
21@, - <3:31@3!8321B!72C

PU"ZM! 89 : ; < : 57=>!%<98=7; 8#!@7=A . B C D 8=58= . E! "Vc!

& ; 353!053! , ; ; 35!:530: - 31:!, <:2, 1A!0?0260863!83A273A!@2?26!@, - - 2: - 31:D^{PUV}!!
j 3@0>A3!A@231@3!A; , 9A!=>?31263A! ; 0?3!72CC3531:! 1337A!21!53; 08262:0:2, 1! , 5!
53A: , 521B!@, - <3:31@3/!; ; 3!:530: - 31:!A; , >67!83!A<3@2C@!; , !; ; 3!=>?31263!A21@3!
; ; 353!2A!0! 9 2735! ?0523: . !, C!21@, - <3:31@ . !2AA>3A!21!=>?31263A! ?35A>A!07>6:AD

"V[!

#B<5WT8#58N=!:;: T!N8978T!

Lk,60!#Z!

53@272?2A - D^PW!!&;2A!2A!21!A<2:3!,C!,;:35!53A305@;!::0:!A;;,9A!::0:!=>?31263A!053!
- 06630863!017!92:;!53;08262:0:2,1!@,>67!83@, - 3!<5,7>@:2?3!07>6:A!9;2@;!
A><<,5:A!::;3!,52B2106!21:31:!,C!::;3!=>?31263!>A:2@3!A.A:3 - D!!j0A37!,1!::;2A!
53A305@;/!2:!2A!:2 - 3!C,5!A:0:3A!:,!@530:3!A:0:>:3A!A<3@2C2@!:,!>?31263!@, - <3:31@.!
A:017057A/!<5,?273!B530:35!<5,;3@:2,1A!13@3AA05.!21!::;3!=>?31263!>A:2@3!
A.A:3 - /!017!3d<017!::;3!,<:2,1A!:,!@,>5:A!C,5!21@, - <3:31:!=>?31263AD!\$:!2A!:2 - 3!
:,!B3:!80@J!:,!::;3!80A2@A/!:,!::;3!,52B2106!21:31:!017!<>5<,A3!C,5!::;3!3d2A:31@3!
,C!::;3!>?31263!>A:2@3!A.A:3 - e53;08262:0:2,1D!!E17!93!J1,9!C5, - !=>?31263!
62C35A!::;0:!:;2A!2A!<,AA2863D!!EA!,13!>?31263!62C35!A:0:37!/F\$!90A!07,<:37!8.!- .!
B5017<0531:A!0:!:;3!0B3!,C!9,D!!T. !5306!<0531:A!8,;:;!7237!7>3!:,!75>B!5360:37!
730:;AD!&;2A!2A!::;3!C25A:!017!,16. !:2 - 3!\$H?3!8331!21!:5,>863!92:;!::;3!609m!)2/
^, +!, !S)F!O)+2, U\$!2G