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, (/*) (% ; ' @ /!! 8 (/!- (' @ /- " : 0 3 4 ' @ \$ % % 3 5 4 ' @ /6 7 3 8 3 % % ' @ , # 2 3 5 ' # \$ % % 3 % ' /" # 7 % % ' C.*

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789:.;: < . = >0 8?2:7@ ;00
 >0 >:: .9< . = 0109< ACD E>. >C; ?<
 9:;0D . 0A:D0D70 \$ CDB =0E 2:10
 90CB09; >CD >C . = >0 .A :209 . =
 := C22 >. ;0 E>. 9070:10B :
 0D 09 C:DA0D =9.A >:A ;>.82B 90 C
 D0;; =.9 >0:9 '0D0=C7 .9 C; . 0DG
 B87 CDB 7>C9C7 09

EHC; ?.9D C 0E .D :D
 ;>:90 !0? -4 +:; =C >09 EC; >0 <
 ;.D . = 9 BEC9B C10 . = C10J;
 2.D0 >.8;0 .D >0 900 *9.CB :D
 E>:7> ..@ : ; DCA0 =9.A >0 .778 :
 7.D78990B E: > >:: 02B09 ?9. >09 :
 :D C:2 . = C ;AC22 >090B: C9< 0; C

(*

EC; 2.; =9.A >0 =CA:2< >0 EC; 9
:D 8I?< >0 9CB0 . = C ;>.0*AC@09
.= 1..B 90 8 C :.D :D >; DC99.E 7:9
@C?20 =.9 ; 90DI > CDB 98; :7 :D 9
. C 190C C10 CDB EC; :D >; 2C
?< >; ;.D
EC; =.9 8DC 0 =.9 BEC9B "C1
C B;; ;: :.D . 2: 09C9< C C:DA0D
.= = ?< >0 .109 < . = >; C90D ; =9
.= 782 :1C :DI >; =C782 :0; >0
:D E>:7> >0 >CB ?< >0 9820; . =
9:I> . ?0 :D; 987 0B EC; >0D :D
8DB09 >0 01 9 .2<.7@ . E>.;
>0 D0:I>?.89:DI =CA:2:0; 010D . =
0D 98; 0B >0:9 ;.D; 0 >CB K8BIA
CDB =.9 ;.A0 :A0 10D09.;: < .
10D:8; . = <.8DI C10 \$ CDB EC; ;. E
>; G8:7@ 9.190;; :D >0 ;7>..2
>; 90;.28 :.D . ?900B >:A =.9 >0
907.AA0DB >:A C; C ;091: .9 . ;.AC
. = >:I> 9CD@ 8 9.; 09: < E>:7:
>0 7C 9:70 . = . >09; ;; . = ;>.9 B
;8 09:.9: < :D 2: 09C 890 0LC2 0B :
=CA:2:C9: < E: > ?.<; E>. E090 =C9
CDB 0L 07 C :.D; \$ CDB C; :D 8D0
C2EC<; >C 0D; E>C 0109 8D287@<
EC; :A 8 0B . C10 >0D CD< A
.9 ;AC22 EC; B.D0 >.8I> 09>C ;
. = >0 ; 9C C10A E>0D : EC; ;877
B0 07 :.D .9 A;;7C99:C10 >0 =C82
8 .D ..9 C10
2C; >; A;; 90;; ?< ;.A0 :D1;;
C =C1.89: 0 7.7@ C10 EC; E: >
; :IAC :M0B C; >0 >:0= .9 A89B09
EC; A.90 C C90D 2< 79:A:DC2 >C
7C8;0 >0 EC; A.90 0C;;2< 90C7>0B
? :.A >C :A0 9 .2<.7@ E: >B90
1:;;?2< =9.A >:A CDB 90C 0B >:A
E>:7> >0 79:A0 :D ; 8 A.; CII
;7C9702< B0;0910 CDB E>:7> ;890
=.9?.9D

=.9?.9D0 ?CB >0 7.D;:B090B >.E >
:D=280D70 . = ? :9 > CDB =.9 8D0 ;;
=90G80D 2< A0D D. E>.22< E: >.8
C90 ?0 9C<0B . C7 ; A.90 C 9.7:.8;
. = C >0D*9..; ?< C B0;:90 . = 20C
>. ;0 90=207 :.D; >:; AC; 09 D0109
E: >.8 0==07 \$ =.9 8DB09 90 0D
; 987 0B >0 B::;7: 2:D0 . = >0 ;7>..
B0; :D0 C;::; CD70 CDB ;8 2<:DI 0
>0 EC; . 90;:0B E: > 8D90C;.DC?20
A:l> ?0 CD . .9 8D: < . = G8C99
=C:2890 \$ CDB E>0D >:; B:2:10D7
>0A D. 90IC9B EC; C:B . >0 09:
?.90 >:; 09;078 :.D =.9 C E>:20 \$
;7>..2 CDB >0 >. 0 . = C 2: 09C9<
;.A0 . >09 A0CD; . = IC:D:DI C 2:102
0 EC; =:9; 2C70B E: > C .2207
0 8;0B . 907.8D E: > ;.A0 20C;89
E. E>:7> >0 9.B0 E: > >:A C; >:; 7
>0 1:7 .9:0; >C >0 IC:D0B .109
I9CAAC :7C2 B::; 8 C :.D; '8 >0 :
A:: 90;: E>. 0A 2.<0B >:A :D ;09
G8:7@2< B::;18; 0B >:A \$ CDB >0 E
:D G80; . = A.90 ;8: C?20 0A 2.<A0
0 EC; 907.AA0DB0B . C :A?09
>0 'CD@ ;:B0 CDB E>:20 >0 EC;
:: ;C:B . >C10 l:10D >. 0; . = 190C
2: :0; '8 >:; 2C70 >0 ;..D 20=
E>C 90C;.D CDB EC; ?.8DB C 9
.22:D; C 9:D 09 . = ;.A0 90 8 C :
C2B09ACD
>:; EC; C 9CB0 =.9 E>:7> A0D
G8C2:=:0B ?< C 2: 09C9< 0B87C :
20C;:DI . C10 ?07C8;0 : =89D
2.<A0D =.9 >:; ;7>.2C; :7 C C:l
>090=.90 :0 90;.210B . ;0 20
CDB A:: 90;: 2:10B :D 09 0 8C2 B
>.8;0 7.82B ?0 D. 7.A=.9 C?20 >C
>0 :D7.D10D:0D70; . = >0;0 B.A0
EC; ;..D 9020C;0B >C1:DI :D .D2
C:D0E

C:D0B ;. A87> ;@:22 :D >; C9 C
>0 7.D=:B0D70 . = >; AC; 09 >C
.8 CD< ;8 09:D 0DBCD . 7.DB87
C .9E:7> CDB 8?2::;> C E00@2<
8DB09 C@:DI >0 A0 E: > ;.A0 .
9.B870B C 8?2:7 7.D 9.109;< CDE
C10 90 8 C :.D C; C E9: 09
:: AC; 09 B:0B ?0=.90 >; C 9
0L :90B \$ CDB C; >0 EC; D. C?20
109;0D0;; . = >; A;; 90;; >0 G8: 0E
C ; : 82C 0B C22.ECD70 CDB AC99
E: > E>.A >0 2:10B C '.E >0D >
>; EC; .109 >0 E.9@0B C; C K.8
9:D :DI*>.8;0 . = 9 'C9?09 N C A
18;;>0B CDB 0A 2.<0B ?< >0 .9:C
7: 20; >CB C >C :A0 ;. A87>
C10 >C >0 EC; =.9 ;.A0 <"0C9;JC
.89DC2 J E>:7> / >.8I> >0 C= 09E
>; E:=0J; :D 090; C ;AC22 2C70
>0 =.9 ;.A0 :A0 7.D :D80B '8
.E09=82 CDB 7.D109;C :.D >.E01
09;8C;;10 >0 ?< B0I900; :D72:D
C9 < \$:D E>:7> >.E0109 >0 E
9C 0 >.8I> ; 0CB< CDB B0 09A:DC
>0D >0 EC; CBA: 0B :D . >0 %.;
7.D :D80B C >; :D 091C2; . = C 0
>; 9CB0 .9 . 0A 2.< >:A;02= E: >
>:7C2 ?8;;:D0;; 0 7.9909C0BB8; <
%C9DC;;8A O CDB EC; 2:?09C22<
.A CD< . = C :.D09; 0 E9. 0 C

D ' ' % 8 6C
2 ,0 5 8
,% 8 ,0 2 88 5 < 8
N5 %0)% 5 ' !' OF
0 8 % 5 %0 8 %
QR , ' % 5 A
% 0 < 0 : ? % > 5 %0
5 5 5 , 5 8
3 2 . ' P %P 4 9 %% ;
A%
>0

>0 9:A:DC2; E>:7> >CB =.9 ;.A0
9C?20 ;C20\$ CDB 8?2::;>0B ACD< 2
C77:B0D ?9.8I> :D . >; >CDB; . =
?0 109< B:=:782 . 907.109 >0
7.990; .DB0D70 E>:7> >; 2C70 :D
=C7:2: C 0B >0 9.7890B 7.8D 9<
;.2B >0:9 :D 022:10D70 . C K.89DC
C 18:D0C C E00@
0 EC; C= 09EC9B; 9C::0B . >0 .
>0 !9CD@; :D E>:7> >0 C7 0B E:
=:9AD0;; \$ CDB . = 0D ; . 0B =9C
I:10D ?< 0A?09; . = %C92:CA0D
?07C8;0 >0 >.8I> ;87> 0L 0D;:.D .
:220IC2 >; 9C::0B ACD< 7.A 2C
; . 0B CA.DI . >09; C =9CD@ I:
87>0;; . = C92?.9.8I> ?< 9 C2
>0 EC; 7: 0B ?0=.90 >0 .8;0 C; =
1:2010 CDB C778;0B ;8 ;0 10
. 0D:DI 20 09; . B0 07 >0A 0
I90C >C9;>D0;; CDB ;0109: < \$?
G80; :.D; ?< 20CB:DI >; .C > . = ;C
B::A::;0B DB : A8; ?0 907.9B0B
>C E>0D >0 EC; 0K07 0B =9.A >;
>:D@ >:A;02= B::7>C9I0B =9.A >:
D80B . 90=8;0 . >; D0C90; =9:0D
C?.8 >0 ACDCI0A0D . = >0 .==:70
' < >; 7.D; CD7< . = B:2:10D70 C
. = 0A 2.<A0D >0 :D :A0 7.2207 0I
=.9 >0 897>C;0 . = C ;AC22 9:D
?0ICD C 09:.B:
CA >20 . = E>:7> >0 ;7>0A0 ;; @
>0 DI2::;> 2CDI8CI0 ;; ; .@0D
@:DI >0 .E0B >0 C==280D70 :D E>
2C; E0D < <0C9; . = >; 2:=0 CD
>0 20= ?0>:DB >:A E>:7> >.8I>
<0 2C9I09 >CB >0 D. 9C;>2< CDB
: ?< :DD8A09C?20 9.K07 ; . = E>
>C 0109 .D0 ;87700B0B
>0 "0D 20ACDJ; CICM:D0 E>:7
;8?::; 0B >900 CDB E0D < <0C9;

0G8C22

0G8C22< . 0DK.< >0 =C1.89 . = >
>0 A.; ;8770;;;=82 CDB 2879C :10
2: 09C9< >:: .9< >C; 8 .D 907.9B
;0910; :D >:: DC99C :10 C9 :782
9 C10 E>0D >0 =.9A0B >0 9
=9.A 0L 07 :DI >0 ;8770;;; E>:7>
CDB . >09; >CB ;. 2: 20 9.; 07 . =
>C >.8I> >0 >CB =.9 ;0109C2 <0
2CD CA.DI 9:D 09; CDB ?..@;0220
>.8I> : E.9 > >0 9:C2 >C
90; 9C:D0B ?< >0:9 1:9 80 =9.A
CD. >09 ACDJ; B0;;:ID EC; ;8==:7:
;..D C; >C B0;;:ID ?0ICD . ?0 IC:D
<0C9; C A82 : 8B0 . = ACICM:D0; C9
.D2< # \$ \$ %8 .9 0B ?<
.E09=82 C;;;.7:C :.D . = ?..@;02209
E: > C22 >0 C9 CDB C22 >0 78
0A 0B : ;02= =9.A >0 I0D09C2 =C

D 2 Q 5 , ' , < F < % 6!* T
8 ' % 8 5 < , 0 0 ' 2 ' 8 5 9
Q 0 , %0 5 5 8 5
5 2 8 5 8 5 8 , %
% 0 2 8 < 5 % 8 , % 5 , 5
% 5 5 5 5 8 % 5 % 5 % U
0 0 4 5 @ 3 0 < U
5 0 5 0 ;
% < < 8 , % 5 T 5 ' < 5 <
% ' 5 5 , % 5 , % 0 0 5 5
8 ' T ' 5 0 5 5 8 5
% 4 ' 5 0 < 8 8 , < % ,
< , Q 5 2 0 < U , % %
5 , %0 8 , % %
' ! "

CDB .? C:D0B >.8I> D. CD 0G8C
9C?20 ;C20 N
C10 D.E ?0ICD . C; :90 . . 8
?0:DI C 190C 09 2.109 . = .0 9< >
>0 ;.A0 :A0; . 090B ;8?K07 ; =.9
.;0B 9:M0; =.9 >0 ?0; 09=.9AC
9:M0 EC; =:= < .8DB; =.9 E>:7>
C7G8C:D 0B E: > E0C2 > CDB >:D
. = := < .8DB; 0L 90A02< 190C >
8 >.9; . = >0 @:DIB.A . C 0C9 C
CDB .==090B >0 C22. A0D . = >0
;: :0; '8 E>0D >0 :A0 7CA0
;00D CA.DI >0 E9: 09; >C >CB
?0=.90\$ >0 #D:109;: :0; CDB ;01
90K07 0B >0 9.1:D70 . = C; &:1D:DI
C22 >; 9 C10 E.DB090B =.9 C E
89C2 K8BIA0D CDB C E:B09 C7G
E.92B ;..D 7890B >:A . = >; C; .
ACD< . >09 90K8B:70; CDB 099.9;
A0D ?00D ;00D 9C::0B ?< C77:B0D
;8BB0D 9:7>0; >C 90 C:D0B 20;;
>0:9 =.9A09 ; C 0
0 7.D :D80B . :A 9.10 >; C10
>CB >0 ;C ;;=C7 ..D . = ;00:DI : ; ;8
. >; B:2:10D70 :22 :D >0 <0C9
CD C; >AC\$ E: > E>:7> >.8I> >0
=:9; A87> C==07 0B <0 :D C =0E
CDB >; C 0 : 0\$ CDB 2:DI09:DI
B9:D@:DI C7:B 2:G8.9; :D . C B:
EC9B; :D . C @:DB . = 20 >C9I:7 :D;
.D0 . = >0 2C; C7 ; . = 90C;.D >0 0
. 90;; >0 >CDB >C ;; D.E E9: :D
9C :10 0 B:0B .D CDB8C9<0 +0
>C1:DI K8; 7.D728B0B >0 E0D <
207 ..D

D 2 5 %%0 6!* T ,
U 5 ; 6)! 7 % 8
2 %
3 5 T ,0 %
< U 0 6C-' %
0

0 EC; C ACD . = 2C910 ; C 890 D
?82@< CDB EC; E>0D <.8DI . = 90
CDB C7 :1: < 0 EC; 10D09C22< :
C?20 . = A87> 2C?.89 CDB 2.DI C
>0 2C 09 <0C9; . = >; 2:=0 EC:
1.8 E>:7> >0 0DB0C1.890B . 7890
C . C2 C?; :D0D70 ?. > =9.A ; 9.
CD:AC2 =..B !9.A CD:AC2 =..B >0
=.89 <0C9; CDB =9.A ; 9.DI 2:G8.
?8 >0 1.8 7.D :D80B 8D7.DG8090
C?C 0B
::; 90;.28 :.D CDB 09;0109CD70 E
A.D \$ E>C 0109 >0 8DB09 ..@ D0:
=C :180 E090 C?20 . 90 90;; >:A \$
EC; 7C2A CDB . >.;0 E>. B:B D
C 0C90B =C:D CDB 2CDI8:B\$?8
=.9EC9B >.8I> >0 A.10B ;2.E2<
>0 ;CA0 7>:2D0;; . = A:DB EC; .?
7.D109;C :.D \$ >0 EC; EC 7>:DI >0
. = >.;0 E>.A >0 B::18; 0B ?< ;00A:I
CDB >::; 1::: CD EC; ;89 9:M0B E>0I
:A0 ?< 90 C9C :.D; . 0L078 0 >
>0 ;8 ;;0B D0109 . >C10 ?00D >0C
0 EC; 7.D::; 0D 2< E: > >; 10D0
. = A:DB C 0DC7:.8; AC:D C:D09
A.9.8; B0ACDB09 . = >; 9:1> D >
;8AA.D0B >; =022.E*K.89D0<A0D
;890; C1C:D; >0 . 90;;.D . = >0
A.8D 0B C @:DB . = 9.; 98A CDB
;. 0==:7C7:.8;2< >C >0< B0 09A
=8 890 :D1C;.D; DB E>0D >0
ACDB0B . ; CA >0 2C; >C2= ;>00
9 C10 C2.D0 B0=0C 0B >0:9 72
9. 9:0 .9; . = >0 :1C2 C1CM:D0;
>C10 ;8?A: 0B
0 EC; C =9:0DB 9C >09 0C;< CD
M0C2.8; CDB C7 :10\$ <0 ACD< :D
I:10D E>090 ?. > >; A.D0< CDB >
0A 2.<0B 2:?09C22< =.9 . >09; :
:@0 ACDD09 7..2 CDB B02:?09C 0

:

: EC; D. :D::B:.8; CDB >.8I> B02:
:DC7:.8;
:: A0D C2 =C782 :0; E090 ;2.E \$
:A0 ?8 >C 2: 20 >0 ;CE E: >
0 EC; 2.DI :D =:DB:DI >0 9:I> ?8
=:DB : C 2C; :: C==07 :.D; E090
CDB >:: . :D:.D D. G8:7@2< B::;7.10
C; : A:I> >:B0 >:: =C82 ; 7.D70C2
;87> >0 EC; C; >0< E>. ?0; @D0E
2CA0D 0BN O

. >0 =.90I.:DI :D7.A C9C?20 C9 :
>0 =: ?09 < . = AC@:DI ;.A0 CBB: :.D
!9.A >0 :A0 . = 9 C10 ; =:9; 7
>0 0E; C 09 C .9E:7> >0 >CB
; 9.DI :B0C . = >0 8 :2: < . = 8?2::
A0D C9< 0?C 0; \$ CDB >CB CD .
0DICI0B :D C ;: 8C :.D C >0 %.;
C; ; C 0B ?< 9 .>D;.D . = ;8 2<:
=9:0DB; E: > >0 %9.1:D7:C2 %C 09
9:10B . =89D::;> >0 .8D 9< %9:I
E9: 0D :D8 0; . = >0 %9.700B:DI
.8;0; . = %C92:CA0D E>:7> E: >:D
?9CD70 E090 90I82C92< 7:9782C
>.8;0; ?0=.90 >0 C:2< %C Q9; E
. 90 .9 >0 0?C 0;
>0 9B09; . = >0 .8;0 E090 :DB
90 0C 0B CDB .77C;:.DC22< 0D=
>0;0 :D 9:2 +H-, 9 C10 0L
:D7.D10D:0D70 CDB 0L 0D70\$ >C1
:D . >0 78; .B< . = >0 09K0CD C
2<:DI >:: =9:0DB :9 .?09 C:@0;
. = >0 .8;0 =.9 >0 8;0 . = >0 "2.
= 09 C 7.D=:D0A0D . = ;0109C2 B
;.99.E =.9 >0 .==0D70 CDB 20CB
E:=0 CDB =CA:2< E>. ;8==090B A87

D 2
F < % 5% <
% (' 0 8 5 % @ !!!16T
A0D 6

'90D >0 EC; B::7>C910B E: > C 90
>0 C778; .A0B =00;
D >0 =.22.E:DI <0C9 9 C:@0
>0 70D;890 . = >0 .8;0 ?< 90 0C
?8 9 C10 EC; C >C :A0 8 . =
>0 2CD . = :D;09 :DI C 90I82C9 ;
2:CA0D C9< 0?C 0; :D >0 "0D 20
EC; C 9.K07 E>:7> 9 C10 >CB
K92C :.D ?0=.90 >0 CB10D 890B .
20DI > :D 82< +HST >0 ?.2B2
A0 >.B . = 9.700B:DI :: >8; 902C 0
CE@:D; P

C@:DI E: > >:A C =9:0DB .9
A0CD; . 9.7890 =.9 >0A CDB >:A
:D . >0 IC2209< . = >0 .8;0 . =
;.A0 7.D70C20B ; C :.D :D >0 . >09
>0< 9:1C 02< ..@ B.ED D. 0;
; 007>0; CDB >0 I0D09C2 0DB0D7
>0 C9I8A0D ; >8; =89D::;>0B C
7:C 0; E.82B CBK.89D . C D0:I>?.8
7.A C90 CDB CBK8; >0:9 D. 0; \$?
CDB >0 >02 . = >0:9 A0A.9:0; >0
. =:L C 20C; >0 ;8?; CD70 . = E
2C 02< >0C9B CDB 90AC9@0B >0
AC 09 :D . =.9A EC; >0 E .9@ . = C
CD C?209 >CDB \$ "8 >9:0 >0 ::
>0 ?..@;02209; E>.A C10 90 C:D0E

D % : ' % ==
!" # \$ % &
, ' ' ## \$ " # ()
4 ' A : " , V
, < , < 7 A % ,
% : T 8 < 8 5
? % ' , 0 F0 >
3 % ' ' J < 9
5 T A 0' % %
, % % T 8 0 < 5
8 # F0 : R :
5

'8 >0;0 0?C 0; E090 D. I:10D :
EC; 0DC0B \$ CDB >0D .D2< E: >
20 09; . = 0C7> 0C@09
>8; =C9 C22 E0D .D ;A.. >2< =.9
.D >0 +S > . = 9:2 +HS, C 7.A 2
. >0 .8;0 >C >0 8?2::;>09; . =
CDB 9:D 0B 0E;* 0 09; CDB %C
8 .D >0A . I:10 C77.8D ; >090:D
700B:DI; . = >0 .8;0 \$: EC;C0::2
:: C >:l> :DB:ID: < . CDB C D. .9
>0 %9:1:2010 . = >; .8;0 =.9 CD<
0 09; .9 . >09 %C 09; /C; :D8 0;
. >09 B0D.A:DC ::D6 .9 =.9 CD<
2::;>09 . = CD< 9:D 0B 0E;* C 09 . =
:.D . 90;8A0 . :D;09 :D >0 ;
%C 09; .9 . I:10 >090:D CD< C7
?C 0; .9 . >09 %9.700B:DI; . = >:
.AA: 00 >090.= C; E022 B89:DI
>0 : :DI . = %C92:CA0D \$ CDB
9.700B E: > >0 8 A.; ;0109: < C
=0DB09;
.A0 0L 0B:0D EC; D.E ?07.A0 D0
>0 * \$ /D. →0 (,.= C10 ;8110; :D
>:A C . 82C9 =:7 :.D \$:D 8D0 +HS
0?C 0; ?< E>C >0 7>.;D . 00B2L
C C:D 0A802 "822:109J; 77.8D
A :90 . = :22: 8 CDB >0 9.700B
2:CA0D E090 I:10D 8DB09 >0 : 2
>0 0DC 0 . = "90C :22: 8 O
. >:D@:DI >:A;02= >.E0109 C
010D ?< >; . C2 7.D70C2A0D . =
B:B D. 10D 890 . 8 >; .ED DCA
C10; . = >0 CICM:D0\$?8 8?2::;>0
>0 DCA0 . = .D0 . = >; D0 >0E; U
K8D:.9\$O E>:7> EC; 7.D :D80B :2
=.22.E:DI <0C9 >0 CIC:D 8;0B >;
IC10 >0 0?C 0; C; C =:9; E: >
20 09;

D % : ' % ==
D0E

D0E ;09C :D .2: :7@; .77C;:.D
. 90A.10 >0 :D;; 09 6!0*? ?\$:DI:D
.D A87> EC9A09 0?C 0; 90G8:90B
A.90 D091.8; E9: 09 >CD >0 E>. >
B87 0B >0A CDB U C10 B;;A.
7.AA: 0B >0 7C90 . = >; C9 . = >
7C :.D . .>D;.D E>. >CB C290C
; 07:A0D; . = >; C?:2: < '8 >0 :2
EC; ; :22 7.D :D80B 010D ?0<.DB
;.DJ; 0?C 0;\$ E>:7> C; >C; ?00D
>; .ED :C9< ?0ICD .1 +H3
!0? -S +H3-*S DB >0;0 0?C 0
7.A 0 0D K8B10 A8; C22.E 0L>:?
; 07:A0D . = >0 0L 0D CDB 9.A :
=C782 :0; CDB E>:7> >C10 :DB870
. 7.A C90 '9: ;;> E: > .ACD 02.C
>C; :2< ;@0 7>0B ?< .>D;.D E>:20
E>:20 >0 >CB 2: 20 C7G8C:D CD70
EC; ; 98112:DI D. =.9 B;; :D7 :.D
D >0 SB . = 9:2 +H3H C 7.A 2
ACB0 :D >0 .8;0 . = .9B; CIC:D;
CDB >.AC; ; 20< =.9 9:D :DI :D
CICM:D0; / >0 "0D 20ACDJ; CDB
C77.8D . = >0 9:C2 . = :A.D .9
E090 ?. > .9B090B :D . >0 78; .B<
#;>09 . = >0 '2C7@ .B V D >0 +
9 C10 :D 78; .B< 0 : :.D0B >
90;;;:DI >; ;.99.E =.9 >; .==0D70 S
=.9 >0 ;CA0\$ 9.A;;:DI D0109 . . =
2:@0 ACDD09 \$ CDB 9C<:DI . ?C
>0 SQ > . = 9:2 >0 .9B C<
=.9.A >0 .AA: 00 C .:D 0B . 7.D
.==0D70; . = ; 20< CDB C10 \$ U >C
C10 . ?0 ?9.81> ?0=.90 >0A \$
7.A 2C:D0B . = ?0:DI ;>0ED . >:A
>0 9:D 0B CDB 8?2;;>0B : '0:D
>0 7CA0 . 8?2;;> CD C77.8D .
9:C2 C9:B =9.A E>.A >0 >CB >0
2;;>0B>0 ;C:B U : EC; B.D0 :DC
EC; 109< ;.99< =.9 >C1:DI .==0DE
2;;>0E

=:;>0B >0 ;C:B 77.8D . = >0 9:C
%C 09 E>:7> EC; 20= C >; .8;0
?8 >0 B.0; D. @D.E =9.A E>.A :
C;@0B>.E 2.DI >0 >C; ?00D C 8?2
->0 ;C:B WW >C :
::L 00D <0C9; ;;D70 : EC; =:9;
11C; 7.D709D0B :D : C =:9; E: >
;:D70 >0 B0C > . = >; D0 >0E >0
:902<>:A;02= O . :70 ?0:DI C@0D
;C:B ?..@; >C10 7.D C:D0B 0?C 0;
>0 ;C:B WW >0 >CB 20= . == >0 C
D. 8?2::>0B CD< 0?C 0; 902C :1
C?.10 >0;0 E0210 A.D >; \$ >C >
.9 E. 902C :DI . >0 . >09 .8;0
>0 2C 09 0DB . = 2C; <0C9 O '0:1
7CA0 . C@0 8 .D >:A . 8?2::> C
2:CA0D XO >0 ;C:B WW >0 EC; 0L
>C : EC; C 109< 190C 90;8A
20B :D . : ?< 78; .A CDB >0 9C7 :
EC; C A.D >2< ?..@ 8?2:
CICM:D0; 7C22\$0B / E>%7>
7.D C:D0B 0?C 0; :D %C92:CA0D \$
>0C9B :22 2C 02< >C CD< 09;.
9:D :DI >. ;0 ?..@; O '0:DI C;@
7CA0 ?< >0 007>0; E>:7> >0 9
. >0 ;C:B WW >0 I
>0 .8;0 CDB >0C9B >0A CDB
Y?2C7@*20CB 0D7:2 CDB .D2< .
AC9@C?20 C;;C10; \$ CDB =9.A >:
>0A .10 >09 >:A;02= O . :70 ?0:D
>C ;.A0 . = >0 007>0; E090 1
;;; :DI . = ;0109C2 C10; 2:0 ;C:B
>:A;02= =9.A D. 0; E>:7> >0 ..@
A0A.9< O '0:DI C;@0B WW E>0 >C
007>0; ?8 ;87> C; E090 ;. 8 .I
;02= =9.A >; .ED D. 0; >0 ;C:B
>C; >CB 007>0; ;0D >:A ?< 109<
>C >0 >C; >CB 007>0; ;0D >:A
>0A;0210;\$ CDB >C; >CB C;::; CD7
?09; E>. >C10 C@0D D. 0; . = .
007>0;

007>0; O '0:DI C;@0B U := >0
;.D E>.A >0 @0 :D C< . AC@
>:A XO >0 ;€0BD0109 >CB O
>0 0 .9 9.700B; . ; C 0 >C
?00D C2; . ?9.8I> ?0=.90 >0A \$ C
A:DC :.D . = >0 , > . = 9:2 >C1:D
>:A >0 ;C:B U >C 7.D C:D0B C
>0 EC; C?20 . I:10 >0:9 .9B;>: ;
D 7.D;0G80D70 . = >::; 0 .9 9
IC9B . = >::; 2CA0D0;; E: > >0 I.8

D (; (% 0
% 5 8 ; % < ' U ' 5 8 % 5 88 % 0
, : 8 8 % ' ; , 5 , 0 ' \$T% 0 , 0
< % % 0 P @ % 0 R 3 ' , <
@ 5 < ' 5 @ 5 , 0
88% 88 0 5 < 0 78 5 , 0
< 4 ' 0 0 < , 0 4 % R
M < 0 T KR < 78 5 5
< , 0 8 R 2 8 (% 0 5
' % (3) < , 4 ' W
8 ' 0 4 , 0 5 5 % 4 4 T
5 KR ' W 0 5 5 88 ' 5
4 55 ' 8 0 5 \$ T % < , %
< R 3 < 4 ' % , %
% 4 ' , 0 % 4 KR %
0 T ' , % 4 4 ' 4
78 5 R 3 % 4 4
, K ' , %
5 4 R 9 78 5 4 T ' %
% 4 : O 8 ,
2 % R E 7Y \$7 < . Y % :

. EC2@ EC; B::7>C910B .8 . = 78
=00; \$ CDB 9 C10 EC; .9B090B
=.9 >0 ;CA0 89 .;0 .D >0 =.22.E:
EC; C77.9B:DI2< B.D0 CDB >0 EC;
E: > C 90 9:ACDB .D C<:DI >::; =0
D >0 A.9D:DI . = 07 H +H,3
?0=.90 ?::; B0C > 9 .>D;.D 90G8
B: .9 . = >0;0 D07B. 0; \$ =9.A E
?.99.E0B ;.A0 . = >0 0C92< 1.28A0;
M:D0 E: > C 9.=0;;0B :D 0D :.D
:070; E>:7> >0 >CB E9: 0D :D >C
?..@; 2C< .D >0 C?20 E: > ACD.
B.ED C9 :782C92< >. ;0 E>:7> 7.
:D >0 %C92:CA0D C9< 0?C 0; \$ C
I..BD0;; . = .>D;.DJ; >0C9 >C >
72C90B U >C >0 .D2< C9 . = >
>0D IC10 >:A CD< 7.A 8D7 :.D EC
>0 0?C 0; :D >0 "0D 20ACD ; C1C
C >0 :A0 >0 E9. 0 >0A =:0 B:B
:A .:::DI.D >0 E.92B >0 A.B0 O >
\$=:L 8 .D C 0C@09J; DCA0\$ >0D
18A0D =.9 >:A \$ CDB . 7.DK890 8
E9. 0 >. ;0 0?C 0; E: > A.90 102.7
. >09 . = >::; 9.B87 :.D;\$. = 0D >9
>0 C1CM:D0 E: >:D >0 >.89 C
:D .D0 BC< CDB >C D. C
I:DD:DI 09>C ; C D..D CDB 0DB:
010D:DI = >0 :=0 . = C1C10 >0
.7 C1. C10; :D .D0 BC< \$?8 >C
D:I> =.9 >0 ;C 8 C22 >0 D:I>
::; .9 :.D . = >0 %C92:CA0D C9<
7.2207 0B :D . E. .7 C1. 1.28A0;\$
B: .9 >C; ;8?; : 8 0B >0 90C2 =.
; 0C@09; U >0 :228A:DC :.D; . =
.9< O : ::; .?;0910B U E090 .?;78
E>:7> C10 >.8I> : 98B0D . C
%C92:CA0D C9< :DB:IDC :.D >0;

\$.6' % .C' . " : Z ' 4/8' =.=

>0 9C :.D; . = :709. CDB 0A.;
. ?0 ; 8B:0B ?< >0 '9: ;;> <.8 >
. = ; 20DB:B 02.G80D70 D091.8; C9
2:CA0D C9< B07.98A >.8I> =0E
9:1C2 .>D; .DJ; 09=.9ACD70; 01
=9.A >; ? :9 > .9 =.9 8D0 0L 07 ;
A0D .8I> . C:A ?< ; 8B:.8; 09
;.DJ; 09=07 :.D :D .9C .9< CDB
>.;0 0?C 0; AC< ?0 8;0=822< :D;
8?2:7 ACD =.9 =02:7: :0; . = 0L 90
890 . = ;0D 0D70; >C < C .D70 =
CDB 020ICD70
U !0E . = >0 7.2207 :.D; . = %C92:
7CD ?0 K8; 2< 90IC9B0B C; A87> A
. >D; .DJ; 9C :.D; >0 A.; CD :0D
>0 A.; C8 >0D :7 J E0;J; .89DC
%C92:CA0D ; C; >0< 7.D C:D >0 .
; 007>0; C90 C;;890B2< >0 A.; 7
1.28A0 . = >0 .AA.D;J .89DC2; 7
:A .9 CD 0?C 0; B89:DI >0 :D
=9.A >0 C770;;;.D . = CA0; :2
%C92:CA0D ; 8DB09 >;; 8D>C < .D
0?C 0; . = >0 0;;;.D +T-+ E090 8
=9.A C 0A?09J; ACD8;79: >0
8;>E.9 > 7.D C:D ACD< . = >0 %C
?C 0; B89:DI >0 :1:2 C9; . >0
0?C 0; E>:7> C90 ; :22 A.:J0 C8
. >;;0 1C9:.8; 7.2207 :.D; E>:7>
>0 %C92:CA0D C9< 0?C 0; B89:D
09:.B =9.A >0 0; .9C :.D :22 2C
?0 B00A0B . = 2: 20 A.90 C8 >.9: <
. = .>D;.D
EC; >0 01.28 :.D E>:7> =:D
>0 90;;; '8 : EC; ; :22 79:A:D
109.8; . 8?2:;> %C92:CA0D C9<
.8 %C92:CA0D C9< 09A:;;;.D 8
2:CAJ; 90:ID >0 0E; C 09; ;.A0 :
C7>0B ; 007> . = C C9 :782C9 ; 0C
7.D 9:?8 :DI >0 .8 2:D0; . 19C :=
;07890 >;; ;0C

EC; :D >0 =C7 :.D; :A0; E>:
;87700B0B E>0D %C92:CA0D C9<
B;; 9:?8 0B >9.8I> >0 2CDB :D A.
>0D : EC; >C '.<09J; N M0C2 9
:7C2 C 0 >; EC; ;87700B0B .I
"0.9I0 ?< >0 ;; .9:7C2 0I;; 09
8?2;;>0B ?< ;.?0909 A0D CDB A
>090=.90 . 7.D C:D A.90 ;C ;;=C7
>0 "0D 20ACDJ; CICM:D0 ;0.D
>0 8>2:7@ E: > ; :22 A.90 =:D;;>C
E090 =:9; 7.A :20B ?< "8 >9:0 >
CDB C= 09EC9B; ?< CE@0;E.9 >
>; =C9*=CA0B ;;7022CD< 9.A 0
:.9; =.9 8?2:7 =C1.89 E>. C22 =
9. CIC :DI E>C >0 0. 20 90CB >
. %C92:CA0D C9< 90;.210; DB >
C 20DI > I:10D EC< . >0 ; :9: .=
C; >0< 0DK.< >0 9:I> . = :D; 987
;0D C :10; ;00A . >C10 0; C?2;;>0
@D.E:DI E>C >0:9 0 90;0D C :10;
>0 :22: 8 :CD DCA0; E090 7.D
CICM:D0 :22 +H35\$:D E>:7> <0C
109< =822< CDD.8D70B >; 2CD
D0>: 022 "90<J; 0?C*0; . #9.43\$ C
IC10 >0 C9 :782C9 ;8?K07 . = 0C
E>:7> D. 0?C 0 .7789; :42" .E090D
>0< E090 I:10D :D >0 =.9A . = C
0A?09 . = %C92:CA0D . >; .8D 9
D +H5- >0 %9.700B:DI; :D %C92
.9 0B ?9:0=2< :D >0 CICM:D0 :
20 09 >8; :D 9.B870BP U >0 =.
007>0; :D **>0=* *****E090 I:10D /
?< C I0D 20ACD E>. ;; . = . :D:.D
. = %C92:CA0D C90 C77.8D C?20 .
=.9 E>C >0< ;C< C; E022 C; E>C
0I;;2C :10 7C C7: <\$ >C D. >.D

D (, % 3 0 ' %% 4 8 % 5 %
A 5 9 , ' 6)6' 88 1

:D 98; 0B E: > >0 2:?09 :0; CDB 8
E:22 ?0 0109 8DE:22:DI . >C10 >
2C:B ?0=.90 >. ;0 E>. ;. :D 98; 0B
B;;18;;0\$ >C := 0109< 10D 20ACD
K8; >; >.D.89C?20 >;; 7.D; : 8
>0 207 .9; >0A;0210; .D2< E.82B
>0< 90*0207 0B C 09;.D 18:2 < .
:A .9 CD C 98; '8 20 >0 C918
>0A;0210; >8; A87> .D2< AC< >
90A;;0 >C C; >0 ; C 0 . = 8?2:7
190C A0C;890 >0 ;CA0 ?. > 2C;
>0DB <.8 C ; 007> :D >0 .AA: ()
8 .D >0 D8A?09 . = CDB:DI !.970
+H5+ CDB C2;. CD. >09 :D >0 20
2:CA0D =.9 >0 <0C9 +H5- .8
>0< C90 90C22< 10D8:D0 CDB D.
8 .D >0 ; 0C@09; CDB >0 8?2:7
>C10 C 0C90B :D . >09 .D >2< .2
!9.A >0 C?.10 09:.B >0 0?C ()
2C92< 1:10D C; =.9A092< E: > >
>0 ;0109C2 ; 0C@09; :22 >0 0D
G80D . E>:7> >0< >C10 ?00D 9
20C; C==07 C :.D . = B;;18;;0\$ CDB
C 7.A 20 0 CDB :A C9 :C2 90 .9 =
10D < <0C9;

>0 0D.9 . = >;; DC99C :10 CDB
D0L:.D E>:7> ;8?;;; 0B ?0 E00D 9
. >D;.D ;00A . 90DB09 : D070;;C
>090 9072C:A >0 =.22.E:DI 7.990;
EC; =:9; >9.8I> A< :D 0910D :.D
>0 8?2:7@ ;; .. >.D.89C?20
. ?0 .A: 0B :D C 9.=0;;0B :=0 . =

'U ; <.8 C 0C9 D. 20;;; Q' 6C*
0CB09; . = >0 B0=07 ; . = <.89 %.0
D % % ' <
< ,0 3 : 0 ' 2 5 (' @ 2
5

E:D D. ?0 B;; 20C;0B := :D .9B09
A0D . = : 7.AA8D:7C 0 . <.8 >0
C 09; .D E>. E:22 8DB09 C@0 .D
;.A0 :A0; . =:22 C 7.28AD
U ;; . :D:D ;; >C >0 8?2:7@
<.8 C ?CB 9070 .:D := ?0;;B0; >
>0 A.D > E>:7> C 79: :7C2 0LC
10D09C22< 90B870 . C DC99.E 7.A
D. .D2< .0A; :D;79: .:D; \7 D01
=.90 E>:7> >0 E:22 ;.A0 :A0; ;8
?8 2:@0E;;0 ;>.9 2: 09C9< B;;;09
DI2;;> 79: :7C2 90AC9@; .D C8 >.
B09D =.9I. 0D .0A; >C B0;0910
:070; 2:@0 !:.<09J;N E.9 > 90;
A0 >.B <.89 2: 09C9< C9 :720 =.
7C220B E:22 >0 >:D@; ?0 ?0 0
>0 8?2:7@ >CD ?< 2.E K0; ; C8
.9 >0 B822 ;7899:2: :0; . = 0: >09
U = ;87> C 7.990; .DB0D70 E:22
<.8 ?0 20C;0B . :D=.9A A0 :D
>0 7.DB: .:D; C90 .D E>:7> <.8 ;
.89 2C 0 . ==09 *=] I:10; A0 D. 90
<.89 10D09.;: < = <.8 0DICI0 :I
9.K07 ; ?0;;B0; >; C 09 >C10
:A C9 := 7.82B ?0 ;07890 =9.A >
>0 CB1CD C10 . = E>C ;>.82B >:D
.89 20 09 ?< ?0:DI/ B/:907%0B
?0 20= C >0 C; 20 :D ':9A:DI>CA
E:22 90C7> <.89 >8A?20 ;091CD ^\$

D 7 &% 0 9 2 % 3 '
' F < 67*' 8 "6' 8 ; ,%0
' 0 (5 , 7 < 8 ,% 5
' 4 ' 5 < R W (5
8 0'R 5 8 5 < R W (5
8 (8 U &% 0 8 5 8 % W
< ' : & 0 A % R 7 F ' < W (5
3 [8 : %% R 7 % @ 5 (5
0 < % W 5 8 0
% ' 3 %% ' W 8 ,%
< < R

F 5 ' 5 ; F %
- . 7 #9 5 %0 /'
" .?;0910B :D <.89 C 09;
7.AA.D .==09; . = 0D7.89C10A0D .
>C10 7>.;0D ?0:DI C ; 9CDI09
7.AA8D:7C 0 . <.8 >0 =.22.E:DI B
>. 0 := <.8 K.:D :D : E9:22 ?0 . =
. = 8;
> 0 ;; .9< . = >0 .8D7:2 . =
?00D 2C 02< 9CD;2C 0B :D . !90D
E: > 2C910 D. 0; ?< 9 0 .89C<09
. = >C ?..@ ;; ;. A87> 901:10B :D
;; 90;8A0B C D0E 9CD;2C :.D . = :
.10 >09 E: > 0 .89C<09J; . 0; =9
7.82B D. =C:2 . = C =C1.89C?20 90
U = : ?0 CD;E090B >C >0 ;;
DI2:;> : A8; ?0 90A0A?090B >0
;CA0 .?K07 :.D CIC:D; 0 .89C<0
E: > >; B;;CB1CD C10 >C >0 !90
?< .D0 . = >0:9 ?0; 9CD;2C .9;\$ E
90CB >900 C10; . = >0 DI2:;> :
B;;7.109:DI >C >0 ; <20 ;; 7C C
9.10A0D ; \$ 8 E>0 >09 >. ;0 :A 9
. ?0 0L 07 0B =9.A >0 C 0A <
=9.A >0 ; 07:A0D E>:7> := <.8 C
.;C2 ;>C22 ;8?A: . <.89 0LCA:
U 8 .;0 >0 A09: . = >0 109;:.D;
>. 0 >C >0 CBB: :.D . = >0 . 0
?C2CD70 :D .89 =C1.89 7.D;:B09:D
>0 DD. C .9
'0 20C;0B . =C1.89 A0 E: > C
:= <.8 C90 D. E:22:DI . 0DIC10 :D
C :.D A0 C BC< . EC: 8 .D <.8 :=
W :9 <.89 >8A?20 ;091CD =]0

D/ % % 7 % 3
0 11 2T . %K H ' % 'R
< , 5 ,
, 8 8 % 5 5 R \$ ' /)0 ,

.> D *

.>D;.DJ; =:9; 09=.9ACD70 :D >
CICM:D0 E>:7> =.9 ACD< <0C9; E
;.8970 =.9 0A 2.<A0D CDB ;8 .9
C :D 109;0; :D C97> +HS, CBB90
:D ;. >C ;<<20= 7.A 2:A0D >C C1
>C10 ?00D B0; : 8 0 ? . > . = C; 0 C1
>0 D. =02 >:A;02= >:I>2< 19C :=:0

0

%% % , ' D
%% 5 5 %
A 8 , T
% < ' %
% 5 8 %
D (% ' ,0 4
88 < U % 0 %%
% < 8 % = ,0 % T \$ %%
, 0' A ,
& < ; - . * / 0 1 , / 2 1 - 0 3 ' 2 - 4 - 5 * 6 ,
2 7 % % < 0 % % % <
% % 5
3% 0 0 % ' 0 8 8 T , %
2 0 % % % 5 & % % 0
2 % % < 0 8 T
7 8 9 < 88 < 5 % %
2 0 < 0 % < 5 < ' T
; 5 0 % < ' 5 % < ' T
(5 ' 0 4 Q ' T
(88 5 9 P < 8 < '
: < % 5 8 < % 0 8 < '
\$ < % % 8 < % 0 Q
((5 % % < < ']
2 (8 % % % ' 9 0 T
((0 9 < % 9 4 M
(5 < % 9 ,
8%

5 ; % 8 < ' @ % ;'
< 8 5 5 8% , 8 5 % '
& ' 8 , < % T
P 5 ; 8 , 5
7 %
3 % , % T
Q
A 5 8 8
%' @ 8 < < ' Q <
' @ % 5 Q <
' % , < @ <
2 ; 0 8 05 '
B , 5 % Q
5 % <
% % < 5 R

9 C 0C9; >C .>D;.D EC; D.E
C10 C; C 90I82C9 7.CBK8 .9 :D

P+D9 % '\$ ^ 0
..@ >0 2:?09 < . = E9:
=0E BC<; CI. B:B D. 0L 07 C
;CA0 20C;890 ;. ;..D\$ =.9 C 20C;8
>:D@ : . 7.D109;0 :D CD< ACDD0
CDB 7CDB:B ACD\$?8 >C1:DI >
:D A< >CDB; . B:: ;0 . = =.9 >0
8 >.9 /. = E>.;0 C?:2: :0; ;>C22 ,
;0DB <.8 >; 09=.9ACD706 ?02
9.7890 A.90 CB1CD CI0.8; 09A; =
:>CD =9.A <.8 E>. >C10 ;. A87>
<.89;02= ?< <.89 I0D09.8; 0D7.89CI
CDB E>.;0 K8BIA0D . = >C C9 D
7.AA0DBC :.D . = A< 9:=20 N 7CD
;.D . 7C22 :D G80; :.D B. D.
:22 ..@ .109 >::; % .0A E: > CD.

: /3 4 & 85 , ,%0

90EC9B : :D C B:==090D ACDD09
'..@;02209 E>. 7.8D ; >0 2:D0; >0
CDB 7.D;;B09; D. >:DI ?8 >0 ?82@
C@:DI D. :70 >C ?0;;B0; E>C
>. 0 =.9 .D C77.8D . = >; C?:2: :0;
CD. >09 72C:A . <.89 90IC9B C;
8DB09 109< B;;CB1CD C10.8; 7:978A
?0I >090=.90 >C <.8 E:22 =C
09 .*A.99.E >C AC< @D.E E>C
. C22.E >:A >C >0 AC< 0: >09 C
.9 =:DB .8 /E>:7> B. D. 0L 07 6
A.90 . >; ;C ;;=C7 :.D
>C10 .D2< . CBB >C C; C.
9CD;79:?0B : 109< 7.C9;02< E>:7
090B : E9C; .?2:10B . B. E:
. 9CD;A: >0 ;>00 ; =9.A :90 90
<.8 \$ CDB C@0 >0 9.8?20 . = C2
;C :90 E>:7> <.8 AC< B;;2:@0
U '< 0L09 :DI .D >; .77C;:.D <.
9.;; < <.8 E:22 D. .D2< 0D7.89C
902:010 B;; 90;; ?8 / >.8I> : ?0
>0 . >09 A. :10; . = 109< ;AC22 C77
109< ;0D;;?20 ACDD09 ;:9 <.89 10
` R

* 0' -' %
. 90 89D <.8 >CD@; =.9
<.8 E090 ;. @:DB C; . ;0DB A0\$
>C <.8 E:22 ?0 20C;0B . :D=.9A
.; E>0 >09 <.8 90;.210 . 9:D
<.8 20C;0 . ;0DB : A0 ?< >0 .;
.B;20< E:22 I. CDB 90CB >0 2:
E0 AC< >C10 >; 7.D;0D . 8 >;

D 5 ' A
< 8 0 T , ' , < 6 8 5 3 3)
% 2 8 , ' , % (9 5
% 5 8 , % 0 ' 6C)' 5
< P 5 % 8 /; "' < 8 5 4 , % 4 R
: 20*

: 2;* DI ; . >0 9:D :DI := :
A0B:C 02< C?.8 E:22 ?0 ;. A87
=9:0DB C; D. . 7.D 0D A<;02= E
.:D; :D >::; =C1.89 9. .;0 := A.
D0C9 >0 98 > . 0DICI0 =.9 >0
C22 >C <.8 ;>C22 2.;0 ?< CD :A
9.1:B0B C; <.8 109< 10D09.8;2<
9.=: := CD< ?0 ;0 C;;B0 =.9
0L70 :DI >0 90;0D <.8 ACB0 E>
IC:D09 : ;; =: >0 ;>.82B 90 C<
20 .D0 . = <.89 ;091CD ; E9: 0 CD
>0 0L 0D00 . = ;87> CD :A 90;;.:D
>0 %.0A >C AC< @D.E E>C
CA 109< ;0D;;?20 =9.A <.89 10D09
7C;.:D . = <.89 90IC9B . 20C9D:D
>C :0; ; C 0 \$ CDB 7CDD. ?8 >:
B0;091:DI* . = >0 19C : 8B0 . = >.;
. = 0D =9.A C 7.D 9C9< B;; .: :.D
.89 A.; >8A?20 ;091CD

!' W 7 #'

P^

.D <.8 . C@0 >0 .7B* <
;20<9; C;90A0A?09 >0 D8A?09 . = 2:D0
7.D C:D;E:22 ?0 D. 2.D20*9 >\$=DE: >

\$ 2 % (8
8 55 % U ' 5 8 , 5
< U ' 8 / . ' , F 4 8 2
< % % 6C)
A 8 'R 8 ,% ,0 % 0 (8 % 6C6
A ' 4 ,0 8 ,% 5 8
< 5 , < 5 5 ,0
3 5 ' < 5 , \$; 0'
5 8 5 : ,0 ' 88
,% Q 5 ,% % < , T , 5
5 % % % 5 , 5
' < % 0 % 5 , % 5
0 8 , '6C6' % ' 5 54
8 5 8 %
2 % 5 8

>

>0 G8. C :.D; E>:7> A8; ?0 ;8?
?. .A . = >0 C10\$ C9 . = >0 ?0C
=.9ACD70 /:= CD< ?0C8 < ?0 C22.E
CBC :DI 810DC2J; ;0D :A0D ; . A
09;.D; E:22 E: > >. ;0 CBB: :.
D:0D 2< AC@0 =:10 ;>00 ; DB :.
E:22 ?0 D. A.90 ;>C22 7.D 0D 0
A0D :.D0B :D A< 2C; = : ?0 D.
. .B;20<J; ?0I : AC< ?0 ;0D A
.; >C AC< >C10 : :D >0 0
7.A .;0B C "900@ 0 :19CA . 2:MC
;>0 .8I> . ?0 7020?9C 0B :D C; AC
18C10; C; 0E::; 0 "9CDB %9C<
E>0D <.8 E:22 ?0I:D 8 .D >0 .0A
EC< . EC2@ < E.82B 20C10 A
>C10 D. BC<*2:I> . 9CD;79:?0 :
.89; \0

(. BC 0 ^
0L 90A02< .?2:10B ?< <.89 @
CDB E:22 D. =C:2 . C 0DB <.8 .*%0.9
E>. 2..@; 8 .D <.8 C; .D0 . = >09 ?0;
U EC; .*BC< E: > 9 .B;20<
109< EC9A2< :D =C1.89 . = >0 C C
E>:7> >0 B0;;90; . >C10 C ;>C90 :
;C<; C 790B: C?20 >:DI . ?0 7.D7
D. E>C CD;E09 . AC@0 :22 >C
D.9 E>C . B0ACDB .D >0 8 >.9 ;
109< E:22:DI >C := <.8 20C;0
C9 :D : C; >0 E:22 8DB.8? 0B2<

> 38 3 < ? %
8 !*B W 2 0 ' 0 ,
' 8 ' , % 54 ; 5
' 0 , < , ' 5
% 5 %0 55 % % <%0 8 , 5
% 5 R (W 8 % < ' 3
\$; 4 ' 6C!'R 5 , 5
D : % 7 8 C* % ' .

. B:; 09;0 CDB 9.A. 0 : = <.8
E.9B .*A.99.E E>C ;>C22 ;C<
;0 20 AC 09; CDB ?9:DI >0 %.0
>0 90;; E>:7> C; >0 .ED 0A :
?0 .. G8:7@ E: > CA ;:9 <.89

a 7 # \$ 0
" R _J D. 7C90 . B0 C:D 1.89 ;0
E9. 0 CD CD;E09 . <.89 20 09 :D
. :D;;D8C 0 >C >CB 9.A:;0B A
90CB< . 09=.9A = : >C10 9C:;0B
?< CD< >:DI >C AC< >C10 0;7C 0
CA ;.99<\$ CDB := <.8 90A:DB A0 .
<.8 =.9 >0 =C1.89 = ACB0 =0E
8;8C2 :D >0 0?C 0; N : EC; .D2
C 0C90B CDB ; :22 C 30CD00B. ?=
C2 09C :.D
>0 109;0; . CB< E0? 9C70 AC
<.8 20C;0 =.9 <.8 @D.E >C ;87>
B0;0910; A87> >.8I> D.9 90G8:90
_ >0 >:D0;0 .9:0; `AC< ?0 >CI
E>0D <.8 20C;0 . ;0DB :D E>:7>
207 >C <.8 B0;;90B CD< C2 09C

D 2 7 % % 8
2 0 88 < U ' 8
' W (% < 0 & % 5 3 0 (% %
7 % % < 9 7 9 3 % 49 3
2 0 5 % 3 ' & ' 5 ' K
7 U % 0 3 4 ' , % 8 < % C
& 5 0 , % 8 ' % 0 5
2 0 & 9 5 ' , < 8 ' <
7 58 , 5 8 ' 5 ' 3 < ' A % 8 % % &
' % 0 /-' I C6 3 > ' % <
' (8 % 6' 6-' /' \$ % %
' 7 : % 9 5 8 4 (<0% T 8
8 5 4%0 % , ' 5 < U '
, % % U D

U D CD;E09 . CD. >09 G809<
. E9: 0 CDB >CB 7.D;82 0B E: >
D:I> := >090 >CB ?00D :A0\$ =.
A.; 9. 09 EC< . = :D1: :DI ;87> C
C; AC< ?0 CD CB1CD C10 . >0
8 .D :

U ; . >0 %9:M0 (09;0; C ?C7@E
A:D0 >0:9 B01900; . = A09: ;; D.
.8 AC< := <.8 20C;0 ; :22 >C10
?8 ;>C22 0D1C10 E: > 2: 20 ;
E>:7> ;>C22 >C9B2< 0DB . A<
CDB 709 C:D2< D. . >0 ;C ;;=C7
7.D709D0B N

U ; . !C >09 %C82 >C10 D.
. A< %9. .;C2\$?8 >C10 A0 E: >
E>:7> >. 0 C90 D.E C CD 0DB
>0 9.190;; >090C= 09 D. ;87> C;
. 0L 07 <.8 7CD 0C;;2< ; :A82
9CD;2C .9

= CD< .9 C22 . = >0;0 >C10 7.
B;;7.D 0D E:22 0DB0C1.89 . 90
;;90 <.8 . 9. .;0 >0 G80; :.D . E:
=.9 CD CD;E09 CA ;:9 <.89 >8

.D70 .;;0;;0B C C 09 :D .>D
E9: :DI E>:7> IC10 . 9 '.;E0.
U 77.8D ?0 E00D 9 BEC9B C
.>D;.D :D 902C :.D . C 109;:.D . =
?018D 83%+H\$Q?< E>:7> : C 0C9
=9.A >C BC<3!%+H\$Q?>D;.D 9070:1
=.9 >C E.94@:34[;8A; . = .D0 E.
CDB ;.A0 :A0; =.89 18:D0C; C C
G80D 2< E. DB : ;; 789:.8;
A:D8 0 CDB ;798 82.8; C7789C7< E

D 2 8 & ' 0 A ' 8 8
(, ' %% ()
!.I , IC- ,0 Q <
? 5 %
8 ,% 54 ,0 3 5 Q <' % 8 6/-'
5 7 F
;.D

;.D >C; C; 0B 8 .D : C ;2: . = C
>C; :D : 820B U AC22 77.8D O C
.D0 C9 :720 % 9 C10 2C:B B.ED
>090 ;; ;8?K.:D0B . >:; C77.8D
;8?;79:?09; . >0 E.9@ C9 2< :D
E9: :DI C9 2< :D >C . = CD. >09
=.22.E; C 20C= .9 E. .D E>:7> C9
?09 . = 7>C9C7 09; E>:7> >C10 >C
;>.9 *>CDB E>:7> 09>C ; .>D;.D
:DI . 20C9D
>0 =.22.E:DI B109 ;;0A0D =9.A
;;7022CD<-+ 7+HSA,CQ D.E ?0 7.D;:
C; C 789:.;: <\$ U 8; 8?2:;>0B %
:DI >0 ;; .9< . = >0 .8D7:2 . = 9
=9.A >0 C2:CD . = !C >09 %C82
8 >.9J; :=0 N CDB . 0; >0.2.1:7
CDB 9: :7C2 =9.A >0 !90D7> B
.89C109 . E>:7> C90 CBB0B
>0 ;; .9< CDB . 0;\$ CDB 228; 9
.8; 8 >.9;\$? . > 9:D 0B CDB ACI
. >D;.D >0 E.9@ E:22 7.D;:
>8DB90B ;>00 ; CDB ?0 E. 1.28
9:D 0B .D I..B C 09 CDB >20 997
E:22 70 0C7> 1.28A0 . ?0 C:B >
C >0 :A0 . = ;8?;79:?:DI >C2= C
2:109< . = >0 =:9; 1.28A0 CDB >
109< . = >0 ;07.DB 1.28A0 :D ;>00
. ?0 C?C 0B =.9 0109< ;>00 20;;
AC< ?0 >CB .D C 2C910 C 09
C >0 9:70 . = >900 18:D0C;\$.D0
:A0 . = ;8?;79:?:DI CD. >09 C >
=:9; CDB >0 90; C >0 B02:1
1.28A0; >0 E.9@ ;; D.E :D >0
?0 B:2:10D 2< 9.;078 0B 8?;79:
W (9 .B;20< A %C22 C22 9
C82 ; >897>* <C9B ?< C1
"C 0 CDB >0 9CD;2-C:D9 CQ 20.*; 9
?< C10DB:;>*;G8C90 O

B A X N + N _ N6_ _ N:DF <' D. >09

D. >09 9CD;2C :.D >C1:DI C?.8
?00D CDD.8D70B 8DB09 >0 C 9.D
EC9B; ';;>. 6 %0C970\$ >0 B0;:ID
C?.9 :10

, U b ^ BC 0 ^
90 < A87> . = <.89 . :D:.D
.AA0D C9< 7CDD. ?0 9.;078 0B E:
CD70 . = ;8770;; =.9 C; >0 DCA0
7.D709D0B C90 . = A.90 E0:l> :D
>CD : ; .ED :D 9:D;:7 A09: >0
;..D ;C ;;=:0B E: > : DB >:D
;>.82B >0 8;>0B =.9EC9B E: > >0
:.D >8;>:; BC< \7 D LCA0D
%. 0J; ;;C< \7 7.D C:D:DI C ;877
>0 %>:2.;. >< . = 9 0:?D: M .D
>0 !C C2:;; ; E: > C .D=8 C :.D . =
CDB CD 228; 9C :.D . = >0 .7 9:D
aE: > E>C 02;0 <.8 >:D@ 9. 09 ^
U E:22 C?.10 C22 ?0 D070;;(
>C : ; C >:DI B:;; :D7 =9.A >0
EC; ;. =C9 =9.A :ACI:D:DI %>0
>C 7.D70:10B >0A . >C10 C I.
>CDB CDB >090=.90 EC; 20;; CDL
>0A A.90 '8 := 0109 >0< ; CD

D 2 55 9 %
55 %0 F < % 8
%07 8 % T 8 8 (<
8 5 , T , 8 8 0 8 8
,0' 6, % F 9 8 8
7 2 2 > 8 5 ' 8 ,5 6C)'
% ?' 8 ,8% A 8 9 0
5 <P 55 5 8 T 70 %%
& \$ %%' @ 0 %%
30 U' A , A U % A % 8
' N5 A (R 7 F 8 0 2 8
% ,0 3 4 %% (R 7 F 8 0 2 8
9 2 ,0 8 3 4 %% (R 7 F 8 0 2 8
,0 % 8 3 4 %% (R 7 F 8 0 2 8
5 80 5
C77.8D

