

: @ 0 W = V = 0 B 0 A 2 V B > 2 > < C @ 8 = : C C 2 0 1 9 - 2 0 2 2 @ . ,
F V = = 0 0 < V 0 : B 0 C : > @ > B : > A B @ > : > 2 V 9 ? 5 @ A ? 5 : B 8 2 V

V > 4 8 7 5 ; L . V = V
A B 2 > @ 5 = = O 2
1 V > 4 8 7 5 ; N 2 # : @ 0 W = V . &
0 = 0 ; V B 8 G = 5 4 > A ; V 4 6 5 = = O

= 0 ; V 7 A C G 0 A = > 3 > A B 0 = C @ 8 = : C 1 V > 4 8 7 5 ; N () 2 # : @ 0
2 V 4 A C B = > A B V = 0 F V > = 0 ; L = > 3 > 2 8 @ > 1 = 8 F B 2 0 . 8 7 8 :
1 V > 4 8 7 5 ; L = > 3 > 1 V 7 = 5 A C 2 # : @ 0 W = V . ! 8 B C 0 F V
7 0 : > = > 4 0 2 A B 2 0 C A D 5 @ V 2 = C B @ V H = L > 3 > 2 8 @ > 1 = 8 F B 2 0
V W W 2 ? ; 8 2 = 0 D > @ < C 2 0 = = O 2 = C B @ V H = L > 3 > @ 8 = : C .

= 0 ; V 7 A 8 B C 0 F V W = 0 C : @ 0 W = A L : > < C @ 8 = : C @ V
A 8 @ > 2 8 = 8 4 ; O 2 8 @ > 1 = 8 F B 2 0 (? > A V 2 = V ? ; > I V
2 8 A > : 0 5 : A ? > @ B = 0 A : ; 0 4 > 2 0 , ? @ 8 G 8 = 8 V A B > B = >
? > A B 0 2 > : 2 ! , F V = > 2 8 9 > 3 ; O 4) .

! 8 B C 0 F V W = 0 T 2 @ > ? 5 9 A L : > < C @ 8 = : C @ V ? 0 : C V
D > @ < C 2 0 = = O B 0 @ > 7 2 8 B : C C : @ 0 W = A L : > 3 > @ 8 = : C @ V ?
: > = N = : B C @ = > W 4 > F V ; L = > A B V A B 2 > @ 5 = = O 2 8 @ > 1 = 8 F B 2 0

> 1 @ 8 2 0

(3 @ 0 = C ; N 2 0 = = O) .

V = = > 2 0 F V 9 = 8 9 , B 5 E = > ;

B 0 0 ? 0 @ 0 B C @ = 8 9

3 @ 0 = C ; N 2 0 = = O < V =

4 > 1 @ 8 2 . " 5 E = > ; > 3 V G = 8 9

@82545=0 45B0;L=0 V=D>@<0FVO I>4> ACG0A=8E B5
V <>:@>3> 3@0=C;N20==O 4>1@82 (:><?0:BC20==
?5@5<VHC20==O V7 7CA8;;O< 7AC2C, 2 48A?5@A
>1;04=0==O 4;O WE >45@60==O. @>1;5=V
<>6;82>AB59 C4>A:>=0;5==O VA=CNG8E B5E=>;>3V9 V
@50;L=8E ?5@A?5:B82 2?@>20465==O C 28@>1=8FB2>.

% V < V G = 0 ? @ > < 8 A ; > 2

E V < V G = 8 9 @ 8 = > : # : @ 0 W = 8

@ > F V : D 0 : B 8 , > F V = : 0 A 8 B

B 5 = 4 5 = F V W ,

= 0 ; V B 8 G = 8 9 7 2 V B

" @ 0 4 8 F V 9 = 8 9 I > @ V G = 8 9 0 = 0 ; V B 8 G = 8 9 7 2 V B I > 4 >
D C = : F V > = C 2 0 = = O = 0 F V > = 0 ; L = > 3 > E V < V G = > 3 >
2 = C B @ V H = L > 3 > B > 2 0 @ = > 3 > @ 8 = : C . = 0 ; V 7 = 0 A ; V 4
2 B > @ 3 = 5 = = O @ D 2 # : @ 0 W = C 4 ; O E V < V G = > W 3 0 ; C 7 V B 0 V

@ 0 : B 8 G = 5 : 5 @ V 2 = 8 F B
2 8 < > 3 = > 2 > 3 > 7 0 : > = >
: @ 0 W = 8 C A D 5 @ V 7 0 1 5
E V < V G = > W 1 5 7 ? 5
C ? @ 0 2 ; V = = O
? @ > 4 C : F V T N , 2 V 4
? @ > F 5 4 C @ B 0 7 < V = @ 5 3
= 0 4 0 = = O = 0 @ 8 = : C E
? @ > 4 C : F V W (2 2 5 4 5 = = O
2 V 4 1 C 4 8 B L A O 2 9 . 0 6 . 2 0 2 4)

@ 0 : B 8 G = 5 : 5 @ V 2 = 8 F B 2 > I > 4 > 2 8 < > 3 = > 2 > 3 > 7 0 : > = > 4 0
C A D 5 @ V 7 0 1 5 7 ? 5 G 5 = = O E V < V G = > W 1 5 7 ? 5 : 8 B 0 C ? @
? @ > 4 C : F V T N C ? 8 B 0 = = O E B 0 2 V 4 ? > 2 V 4 O E (3 0 > A = > 2
2 V 4 ? > 2 V 4 5 9) .

! V @ : 0 B 5 E = V G = 0 .
A 2 V B > 2 > 3 > , @ 5 3 V > = 0 ;

= 0 F V > = 0 ; L = > 3 > @ 8 = : C .
2 8 @ > 1 = 8 F B 2 0 - A ? > 6 8 2 0
@ > 7 @ V 7 V : @ 0 W =) .
0 = 0 ; V 7 . > 3 V A B 8 G = V < 0
? > A B 0 2 > : . = 0 ; V B 8 G = 8 9

> 2 = 8 9 A B 0 B 8 A B 8 G = 8 9 B 0 0 = 0 ; V B 8 G = 8 9 0 = 0 ; V 7 A
A V @ : 8 (A D 5 @ 8 7 0 A B > A C 2 0 = = O , 2 8 @ > 1 = 8 F B 2 > , @ >
2 8 @ > 1 = 8 : V 2 7 ? > 2 = 8 < 8 @ 5 : 2 V 7 8 B 0 < 8 , A ? 5 F 8 D V : 0
4 5 B 0 ; L = V 4 0 = V I > 4 > 7 > 2 = V H = L > B > @ 3 > 2 5 ; L = 8 E ? > A B 0
@ > 7 @ 0 E C = : 8 A ? > 6 8 2 0 = = O , F V = > 2 0 : > = N = : B C @ 0 , > A =
B 0 ? @ > 3 = > 7) . % @ > = > ; > 3 V G = V @ 0 < : 8 4 > A ; V 4 6 5 = = O :
(? @ > 3 = > 7 2 0 2 3 - 2 0 2 6 @ @ .) . 5 > 3 @ 0 D V O 4 > A ; V 4 6 5 = = C
V : @ 0 W = 8 A 2 V B C 7 G C B ; 8 2 8 < 8 @ 8 = : 0 < 8 . 2 V B A
@ > 7 4 V ; V 2 , < V A B 8 B L 1 4 5 A B > @ V = > : , 7 > : @ 5 < 0 1 0
B 0 1 ; 8 F L .

> 1 0 2 : 8 4 >
(? ; 0 A B 8 D V : C N G V)
1 C 4 V 2 5 ; L = 8 E
" 5 E = > ; > 3 V G = V , B
: > = N = : B C @ = V ,

5 : > = > < V G = V , 5 : >
= > @ < 0 B 8 2 = > - B 5 E = V G = V
2 8 @ > 1 = 8 F B 2 0 B 0
1 ' @ C = B C 2 0 = = O 4 > F
A B 2 > @ 5 = = O 2 8 @
@ > D V ; V 2 8 @ > 1 = 8
A ? > 6 8 2 0 G V 2 . = 0 ; V B 8 G = 8 9

! 8 A B 5 < = 8 9 4 5 B 0 ; V 7 > 2 0 = 8 9 0 = 0 ; V 7 A 8 B C 0 F V W C 2 8 @
2 = C B @ V H = L > < C @ 8 = : C ? ; 0 A B 8 D V : C N G 8 E 4 > 1 0 2 > :
> A = > 2 V A C ; L D 0 = > ; C , ; V 3 = > A C ; L D 0 = > ; C B 0
A 8 @ > 2 8 = 8) , 7 > 2 = V H = L > W B > @ 3 V 2 ; V (2 8 4 > 2 8 9
: > < 5 @ F V 9 = > W 4 > F V ; L = > A B V A B 2 > @ 5 = = O = > 2
2 8 @ > 1 = 8 F B 2 0 ? ; 0 A B 8 D V : C N G 8 E 4 > 1 0 2 > : 4 > 1 5 B > =
2 = C B @ V H = V E B 0 7 > 2 = V H = V E 0 A ? 5 : B V 2 B 0 @ 5 0 ; V 9 5 : >
2 # : @ 0 W = V C A 5 @ 5 4 = L > A B @ > : > 2 V 9 B 0 4 > 2 3 > A B @ > : > 2 V 9

! B 0 B 8 A B 8 G = V B 0 0 =
4 0 = V I > 4 >
V < ? > @ B > 7 0 < V I 5 = = O
? @ > 4 C : F V W (E V < V G = 0 A

= 0 ? V 2 A 8 @ > 2 8 = 0 ,
E V < V G = 0 ? @ > 4 C : F V
B @ 0 4 8 F V 9 = > ? > A B 0 2 ;
: @ 0 W = C 7 @ D B 0 @ 1 (
2 0 2 1 - 2 0 2 2 @ @ .) = 0
4 > 2 V 4 : 0

5 B 0 ; V 7 > 2 0 = 8 9 0 = 0 ; V 7 ? > 1 8 0 E V < V G = 8 < ? @ > 4 C : B 0 <
0 = 0 ; V B 8 G = V 4 0 = V) , > F V = : 0 I > 4 > < > 6 ; 8 2 > A B
V < ? > @ B > 7 0 < V I 5 = = O E V < V G = > W ? @ > 4 C : F V W , ? @ > 3 = > 7 =
A ? > 6 8 2 0 = = O B 0 @ 8 = : C . 0 = V B 0 > F V = : 0 ? @ 8 2 5
1 5 @ 5 7 5 = L 2 0 2 3 @ .

V = > ? > ; V C @ 5 B 0 = 8 . ! 5 : B > @
0 = 0 ; V 7 2 8 @ > 1 = 8 F B 2 0 5 ; 0 A
? V = > ? > ; V C @ 5 B 0 = V 2 2 # : @
A 8 @ > 2 8 = = > 3 > 7 0 1 5
3 0 ; C 7 V C ? 5 @ V > 4 2 0 1 9 - 2 0
= 0 ; V B 8 G = 8 9 > 3 ; O 4 .

@ > 0 = 0 ; V 7 > 2 0 = V > A = > 2 = V A ? > 6 8 2 G V = V H V # 2 # : @ 0 V
B 0 1 0 ; 0 = A 8 A ? > 6 8 2 0 = = O . E 0 @ 0 : B 5 @ 8 7 > 2 0 = > B 5 E = V G =
5 : > ; > 3 V G = V > A > 1 ; 8 2 > A B V # . @ > 2 5 4 5 = 8 9 4 5 B

2=CB@VH=L>3> B>20@=>3> @8=:C 5;0AB8G=8E #: A
, A8@>28==5 70157?5G5==O 28@>1=8FB2> 5
7>2=VH=L>B>@3>25;L=V ?>AB02:8.

040=V 45B0;L=V ?@>DV;V >A=>2=8E
>E0@0:B5@87>20=0 AB@C:BC@0 2=CB@VH=L>3> A?>68
28A=>2:8 7 ?@>3=>7>< @8=:C 2 #:@0W=V.

V > 3 0 7 (1 V > < 5 B 0 =) .
A B 0 = C 2 8 @ > 1 = 8 F
A ? > 6 8 2 0 = = O 1 V > < 5
: @ 0 W = 0 E 2 @ > ? 8 B 0 #
" 5 E = V : > - 5 : > = > < V G = 0
: > = N = : B C @ = 0 4 >
7 1 V ; L H 5 = = O 2 8
1 V > < 5 B 0 = C 2 # : @ 0 W = V 2
A 8 @ > 2 8 = = > W 1 0 7 8 4 ; O E
3 0 ; C 7 V . & V ; L > 2 5 0 = 0 ;
4 > A ; V 4 6 5 = = O

> A ; V 4 6 5 = = O @ > 7 : @ 8 2 0 T A C G 0 A = V B 5 = 4 5 =
28@>1=8FB20 B0 A?>6820==O 1V><5B0=C, 7>:@5<0, 2 :
B0 #: @0W=V. 5@H89 @>74V; 4>A;V465==O ?@8A
AB0=C 28@>1=8FB20 1V><5B0=C 2 !, 2 B.G. C @>

:@0W=, ?@54AB02;5=> 40=V I>4> 48=0<V:8 7@>AB
CAB0=>2>:, WE >48=8G=>W B0 AC<0@=>W ?>BC6=>A
AB@C:BC@8 @>7<V|5==O 28@>1=8FB2 B>I>. # @>74
40=V I>4> :><?0=V9- ;VF5=7V0@V2 B0 ?>AB0G0;L=8:
B0 >1;04=0==O 4;O 28@>1=8FB20 1V><5
?>@V2=O;L=89 0=0;V7 VA=CNG8E B5E=>;>3V9 71030G
1V><5B0=C. "@5BV9 @>74V; 4>A;V465==O 2:;NG0T 0=
AB0=C @>728B:C 28@>1=8FB20 1V><5B0=C 2 #: @0W=
5:>=><VG=V ?5@54C<>28, 28@>1=8G0 1070, @53C;OB>
?@>5:B8 AB2>@5==O 28@>1=8FB2 1V><5B0=C, B5@<V
B0 ?>B5=FV9=V @8=:8 71CBC.