

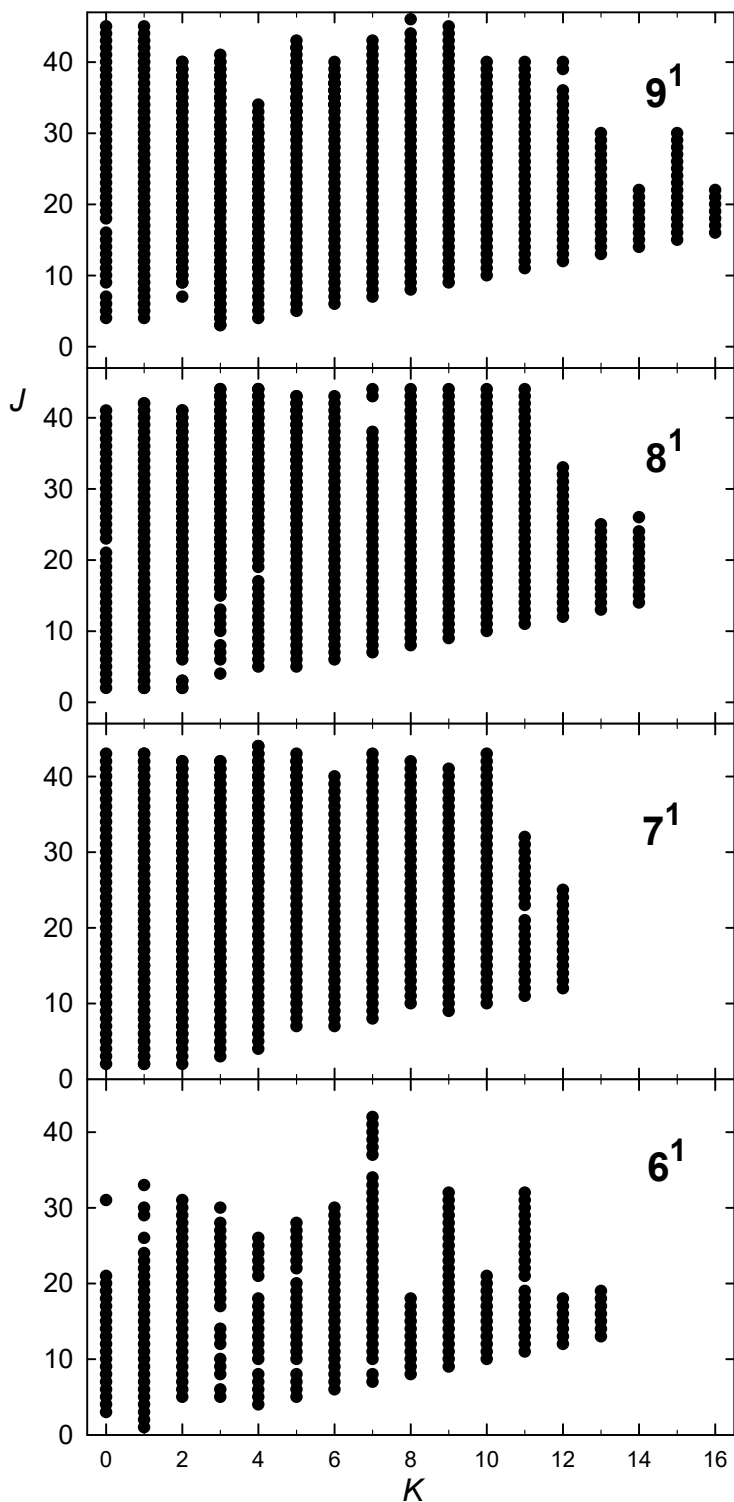
Supplementary Data for:

High-resolution infrared spectroscopy of acrolein:

the 9^1 , 8^1 , 7^1 , and 6^1 fundamentals and other vibrational states between 1250 and 1650 cm^{-1}

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Figure A-1. Plot showing the upper state J and K_a values of assigned transitions for the four fundamental bands studied here.



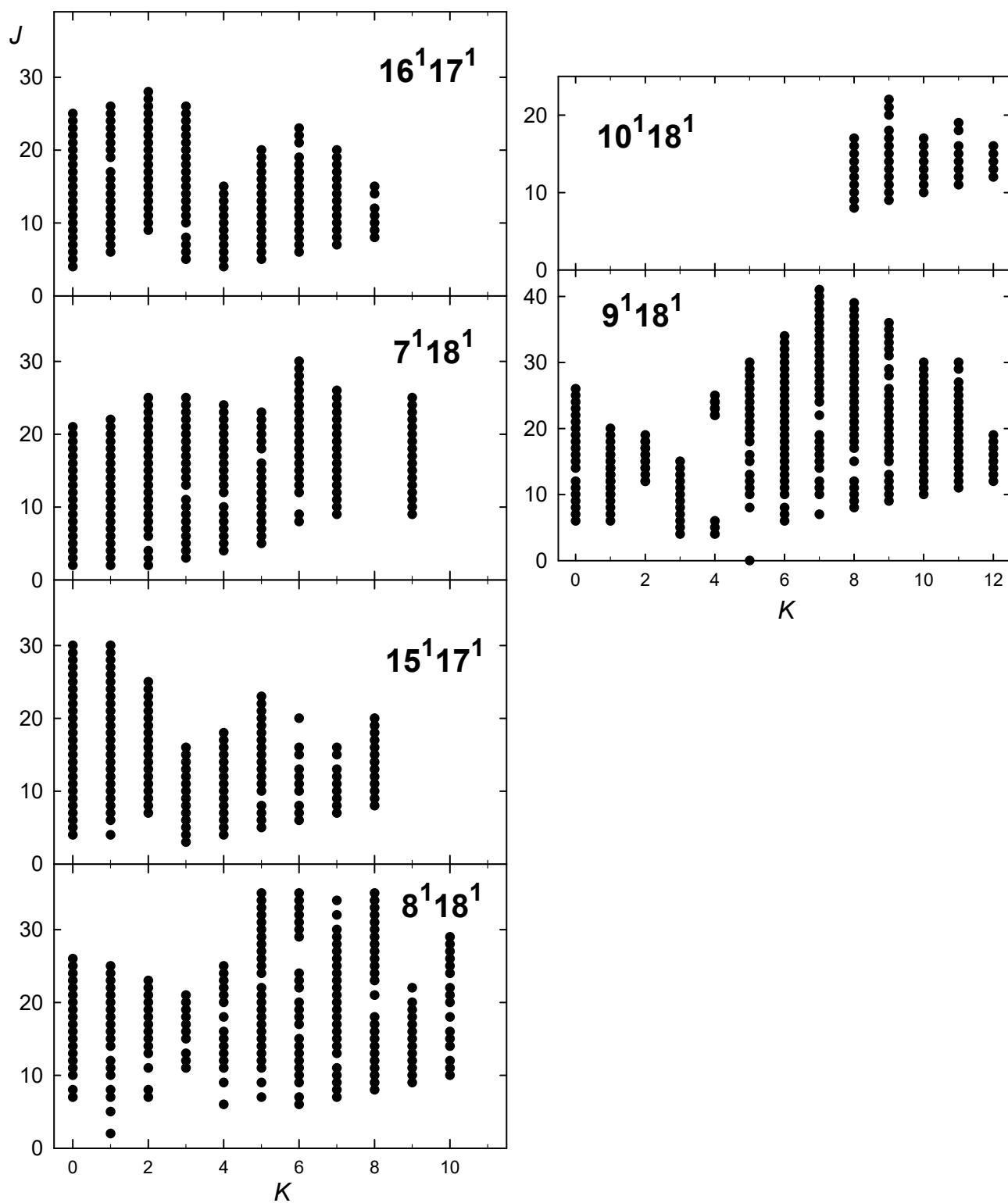


Figure A-2. Plot showing the upper state J and K_a values of assigned transitions for the six remaining states studied here.

Table A-1. Parameters for the simple anharmonic model used to predict acrolein vibrational frequencies.^a This is essentially the same as used in Refs. [10, 11].

mode number N	ω_N	$x_{N,N}$	$x_{N,18}$
10	1153.403	0.0	0.0
11	911.433	0.0	0.1781
12	563.8566	0.0	0.0216
13	323.2465	0.4583 ^b	1.144
14	1002.2287	0.0	0.0
15	992.655	0.0	-3.4876
16	958.495	0.0	0.0
17	594.3647	-1.6111	-3.9632
18	159.328	-1.120 ^c	d

^a Values in cm^{-1} . The expression for the frequency σ of a mode is:

$$\sigma = \sum_{j=0}^{18} \nu_j \omega_j + \sum_{j=0}^{18} \sum_{k=j}^{18} \nu_j \nu_k x_{j,k} + \sum_{j=0}^{18} \sum_{k=j}^{18} \sum_{m=k}^{18} \nu_j \nu_k \nu_m x_{j,k,m}$$

^b In addition, $x_{13,18,18} = -0.20434$

^c In addition, $x_{18,18,18} = 0.04062$

^d $x_{18,18}$ is, of course, equal to -1.120, from the previous column.

Table A-2. Predicted acrolein vibrational states between 1270 and 1645 cm^{-1} from the simple anharmonic model (in cm^{-1}).^a

9	10	11	12	13	14	15	16	17	18		
0	0	0	0	2	0	0	0	0	4	1272.931	A'
0	0	0	0	0	0	0	1	0	2	1272.996	A''
1	0	0	0	0	0	0	0	0	0	1274.524	A'
0	0	0	0	1	0	0	1	0	0	1282.200	A''
0	0	0	2	0	0	0	0	0	1	1286.005	A''
0	0	0	0	3	0	0	0	0	2	1292.777	A'
0	0	0	0	0	0	1	0	0	2	1300.181	A''
0	0	0	0	4	0	0	0	0	0	1300.319	A'
0	0	0	1	0	0	0	0	1	1	1310.917	A'
0	1	0	0	0	0	0	0	0	1	1311.649	A''
0	0	0	0	1	0	1	0	0	0	1316.360	A''
0	0	0	0	0	1	0	0	0	2	1316.730	A''
0	0	0	0	1	1	0	0	0	0	1325.934	A''
0	0	0	0	0	0	0	0	2	1	1332.606	A''
0	0	0	1	0	0	0	0	0	5	1337.682	A''
0	0	0	0	0	0	0	0	1	5	1346.654	A'
0	0	0	1	1	0	0	0	0	3	1358.220	A''
0	0	0	1	2	0	0	0	0	1	1372.332	A''
0	0	0	0	0	0	0	0	0	9	1372.844	A''
0	0	0	0	1	0	0	0	1	3	1375.162	A'
0	0	1	0	0	0	0	0	0	3	1380.968	A''
0	0	1	0	1	0	0	0	0	1	1394.504	A''
0	0	0	0	1	0	0	0	0	7	1396.049	A''
0	0	0	0	2	0	0	0	1	1	1397.244	A'
0	0	0	0	2	0	0	0	0	5	1423.267	A''
0	0	0	0	0	0	0	1	0	3	1427.496	A'
1	0	0	0	0	0	0	0	0	1	1432.773	A''
0	0	0	0	1	0	0	1	0	1	1441.388	A'
0	0	0	2	0	0	0	0	0	2	1442.301	A'
0	0	0	0	3	0	0	0	0	3	1447.644	A''
0	0	0	0	0	0	1	0	0	3	1451.193	A'
0	0	0	2	1	0	0	0	0	0	1451.418	A'
0	0	0	0	4	0	0	0	0	1	1462.326	A''
0	0	0	1	0	0	0	0	1	2	1463.227	A''
0	1	0	0	0	0	0	0	0	2	1467.901	A'
0	0	0	0	0	1	0	0	0	3	1471.229	A'
0	0	0	0	1	0	1	0	0	1	1472.060	A'
0	0	1	1	0	0	0	0	0	0	1475.290	A'
0	1	0	0	1	0	0	0	0	0	1477.105	A'
0	0	0	1	1	0	0	0	1	0	1480.314	A''
0	0	0	0	0	0	0	0	2	2	1480.932	A'
0	0	0	0	1	1	0	0	0	1	1485.122	A'

0	0	0	1	0	0	0	0	0	6	1488.408	A'
0	0	0	0	0	0	0	0	1	6	1493.396	A''
0	0	1	0	0	0	0	0	1	0	1504.186	A''
0	0	0	0	1	0	0	0	2	0	1505.988	A'
0	0	0	1	1	0	0	0	0	4	1510.946	A'
0	0	0	1	0	0	0	1	0	0	1522.352	A''
0	0	0	0	1	0	0	0	1	4	1523.903	A''
0	0	0	1	2	0	0	0	0	2	1529.668	A'
0	0	1	0	0	0	0	0	0	4	1534.137	A'
0	0	0	1	3	0	0	0	0	0	1537.721	A'
0	0	0	0	1	0	0	0	0	8	1543.521	A'
0	0	0	0	2	0	0	0	1	2	1550.595	A''
0	0	0	0	0	0	0	1	1	0	1551.248	A'
0	0	1	0	1	0	0	0	0	2	1551.466	A'
0	0	0	1	0	0	1	0	0	0	1556.512	A''
0	0	1	0	2	0	0	0	0	0	1559.759	A'
0	0	0	1	0	1	0	0	0	0	1566.085	A''
0	0	0	0	3	0	0	0	1	0	1566.617	A''
0	0	0	0	2	0	0	0	0	6	1571.764	A'
0	0	0	0	0	0	0	1	0	4	1580.487	A''
0	0	0	0	0	0	1	0	1	0	1585.408	A'
1	0	0	0	0	0	0	0	0	2	1589.025	A'
0	0	0	0	0	1	0	0	1	0	1594.982	A'
0	0	0	2	0	0	0	0	0	3	1596.844	A''
0	0	0	0	1	0	0	1	0	2	1598.171	A''
1	0	0	0	1	0	0	0	0	0	1598.229	A'
0	0	0	0	3	0	0	0	0	4	1599.776	A'
0	0	0	0	0	0	1	0	0	4	1600.696	A''
0	0	0	0	2	0	0	1	0	0	1606.821	A''
0	0	0	2	1	0	0	0	0	1	1610.649	A''
0	0	0	1	0	0	0	0	1	3	1613.785	A'
0	0	0	0	4	0	0	0	0	2	1620.702	A'
0	1	0	0	0	0	0	0	0	3	1622.401	A''
0	0	0	0	0	1	0	0	0	4	1624.220	A''
0	0	0	0	1	0	1	0	0	2	1625.356	A''
0	0	0	0	0	0	0	0	2	3	1627.505	A''
0	0	1	1	0	0	0	0	0	1	1633.738	A''
0	1	0	0	1	0	0	0	0	1	1636.293	A''
0	0	0	1	0	0	0	0	0	7	1638.356	A''
0	0	0	0	0	0	0	0	1	7	1639.359	A'
0	0	0	0	2	0	1	0	0	0	1640.981	A''
0	0	0	0	1	1	0	0	0	2	1641.905	A''

The notation scheme for vibrational interactions is continued from our earlier work:

$$\langle X, k|H|Y, k\rangle = W(X,Y) + Z_5(X,Y)k^2$$

$$\langle X, k|H|Y, k \pm 1\rangle = \frac{1}{2} [\pm G_c(X,Y) + Z_3(X,Y) (2k \pm 1)] \times [J(J+1) - k(k \pm 1)]^{1/2}$$

$$\langle X, k|H|Y, k \pm 2\rangle = \frac{1}{2} Z_1(X,Y) \{[J(J+1) - k(k \pm 1)] \times [J(J+1) - (k \pm 1)(k \pm 2)]\}^{1/2}$$

$$\langle X, k|H|Z, k\rangle = [G_a(X,Z) + Z_5(X,Z) J(J+1)] k$$

$$\langle X, k|H|Z, k \pm 1\rangle = \frac{1}{2} [G_b(X,Z) \pm Z_3(X,Z) (2k \pm 1)] \times [J(J+1) - k(k \pm 1)]^{1/2}$$

$$\langle X, k|H|Z, k \pm 2\rangle = \pm \frac{1}{2} Z_1(X,Z) \{[J(J+1) - k(k \pm 1)] \times [J(J+1) - (k \pm 1)(k \pm 2)]\}^{1/2}.$$

X and Y represent vibrations of the same symmetry (A' or A''); X and Z represent vibrations of different symmetry. W is a Fermi-type parameter, G_a , G_b , and G_c are Coriolis parameters, and the Z are higher order parameters.

Table A-3. Vibrationally diagonal parameters for directly observed states of acrolein from multistate Fit A (in cm^{-1}).^a

	9^1	$10^1 18^1$	8^1	7^1	$9^1 18^1$
T_0	1274.5258(1)	1318.081(32) ^b	1359.4956(1)	1420.0909(1) ^c	1432.1420(1)
A	1.58501(17)	1.51194(52)	1.5818112(34)	1.5825274(42)	1.529514(32)
$(B+C)/2$	0.14841947(13)	0.1489474(57)	0.14851442(12)	0.14839847(11)	0.1488002(47)
$(B-C)$	0.01402825(66)	[0.013442]	0.01406823(48)	0.01404769(36)	0.013735(16)
$10^5 \times \Delta_K$	1.188(27)	-1.90(34)	1.0755(97)	1.4152(85)	-0.152(26)
$10^7 \times \Delta_{JK}$	-2.520(21)	6.93(51)	-3.107(11)	-3.206(46)	0.23(73)
$10^8 \times \Delta_J$	3.4150(72)	-16.3(17)	3.4456(79)	3.4927(77)	3.68(26)
$10^7 \times \delta_K$	3.04(26)	542.(20)	1.20(26)	2.47(20)	18.8(82)
$10^9 \times \delta_J$	3.881(52)	[4.0]	4.113(78)	3.975(58)	
$10^8 \times H_K$	-0.653(64)	4.58(78)	-0.995(90)	-3.893(56)	-2.90(38)
$10^{10} \times H_{KJ}$				3.57(37)	
$10^{10} \times H_{JK}$				-0.133(16)	
$10^{10} \times L_K$			0.361(25)		
n	1528	49	1058	1142	429 + 21
rmsd	0.00034	0.00056	0.00036	0.00033	0.00042

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit. n is the number of fitted transitions, and rmsd is the standard deviation in cm^{-1} . The 9^1 data include 23 perturbing lines assigned as transitions involving $K_a = 3$ levels of the $12^2 18^1$ state. The 8^1 data include 6 perturbing lines assigned as transitions involving $K_a = 11$ levels of the $14^1 13^1$ state. The 7^1 data include 6 perturbing lines assigned as transitions involving $K_a = 6$ levels of the $13^2 18^5$ state. For $9^1 18^1$, 21 transitions with $K_a' = 7$ were assigned but not included in the fit.

^b This is the *perturbed* (real) vibrational origin. The deperturbed origin is: 1317.907 cm^{-1} . Interaction with $15^1 13^1$.

^c This is the *perturbed* (real) vibrational origin. The deperturbed origin is: $1420.0947 \text{ cm}^{-1}$. Interaction with $15^1 18^3$.

Table A-4. Vibrationally diagonal parameters for indirectly observed states of acrolein from multistate Fit A (in cm^{-1}).^a

	$16^1 18^2$	$16^1 13^1$	$12^2 18^1$	$15^1 18^2$	$12^1 17^1 18^1$
T_0	1270.312(41)	1282.738(9)	1285.0065(10)	1304.013(17)	1305.617(18)
A	1.49784(43)	1.59273(65)	1.523706(37)	1.46766(22)	[1.5333]
$(B + C)/2$	0.148309(83)	0.1484746(81)	0.1485274(33)	0.150219(16)	[0.148537]
$(B - C)$	0.01700(31)	0.0142129(74)	0.013130(33)	[0.0133]	[0.013393]
$10^5 \times \Delta_K$	[0.15]	[4.0]	0.206(18)	[1.017]	[8.6]
$10^7 \times \Delta_{JK}$	[-2.93]	[-2.93]	-5.31(17)	[-2.93]	[-2.93]
$10^8 \times \Delta_J$	[3.47]	[3.47]	-1.23(59)	[3.47]	[3.47]
$10^7 \times \delta_K$	[1.90]	[1.90]	-132.(11)	[1.90]	[1.90]
$10^9 \times \delta_J$	[4.0]	[4.0]	-69.3(57)	[4.0]	[4.0]

	$15^1 13^1$	$14^1 13^1$	$12^1 18^5$	$17^1 13^1 18^3$	$11^1 18^3$
T_0	1316.823(19) ^b	1324.9076(22)	1333.3430(36)	1377.0886(16)	1382.606(16)
A	1.5884(13)	[1.6218]	1.359561(34)	1.4580704(86)	[1.4144]
$(B + C)/2$	0.1484035(43)	0.1484114(23)	[0.15033]	0.1497270(19)	0.148780(16)
$(B - C)$	0.01387(16)	[0.014035]	[0.01218]	[0.013156]	[0.01253]
$10^5 \times \Delta_K$	-10.34(73)	[2.10]	[-0.03]	[-1.02]	[-2.70]
$10^7 \times \Delta_{JK}$	[-2.93]	[-2.93]	[-2.93]	[-2.93]	[-2.93]
$10^8 \times \Delta_J$	[3.47]	[3.47]	[3.47]	[3.47]	[3.47]
$10^7 \times \delta_K$	[1.90]	[1.90]	[1.90]	[1.90]	[1.90]
$10^9 \times \delta_J$	[4.0]	[4.0]	[4.0]	[4.0]	[4.0]

Table A-4. continued.

	$13^2 18^5$	$16^1 13^1 18^1$	$12^2 18^2$	$15^1 18^3$	$12^1 17^1 18^2$
T_0	1423.5667(62)	1441.760(15)	1439.914(29)	1451.0166(18) ^c	1457.802(23)
A	1.44961(64)	[1.580]	1.48380(30)	1.380079(51)	[1.4863]
$(B + C)/2$	0.1495982(71)	[0.148714]	0.148504(23)	0.1498466(36)	0.149109(14)
$(B - C)$	0.011659(90)	[0.013436]	0.012159(46)	0.012951(39)	[0.013047]
$10^5 \times \Delta_K$	-13.4(16)	[1.80]	[1.20]	[-1.64]	[0.750]
$10^7 \times \Delta_{JK}$	[-2.93]	[-2.93]	[-2.93]	[-2.93]	[-2.93]
$10^8 \times \Delta_J$	[3.47]	[3.47]	[3.47]	[3.47]	[3.47]
$10^7 \times \delta_K$	[1.90]	[1.90]	[1.90]	[1.90]	[1.90]
$10^9 \times \delta_J$	[4.0]	[4.0]	[4.0]	[4.0]	[4.0]

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit.

^b This is the *perturbed* (real) vibrational origin. The deperturbed origin is: 1316.997 cm^{-1} . Interaction with $10^1 18^1$.

^c This is the *perturbed* (real) vibrational origin. The deperturbed origin is: $1451.0128 \text{ cm}^{-1}$. Interaction with 7^1 .

Table A-5. Vibrationally off-diagonal parameters for states of the same symmetry from multistate Fit A (in cm^{-1}).^a

X	Y	$W(X,Y)$	$G_c(X,Y)$	$10^5 \times Z_1(X,Y)$	$10^5 \times Z_3(X,Y)$	$10^5 \times Z_5(X,Y)$
9^1	$12^1 17^1 18^1$		0.005638(67)			
$16^1 13^1$	$10^1 18^1$			-132.8(59)		
$12^2 18^1$	$16^1 18^2$			46.8(18)		
$12^2 18^1$	$10^1 18^1$		0.0029(13)			
$10^1 18^1$	$16^1 18^2$			15.8(20)		
$10^1 18^1$	$12^1 18^5$	0.11449(43)				
$15^1 13^1$	$10^1 18^1$	0.435(55)				
8^1	$17^1 13^1 18^3$			-2.017(43)		
8^1	7^1			14.57(34)		
7^1	$12^2 18^2$			-3.63(12)		
7^1	$15^1 18^3$	-0.3430(25)	-0.001941(21)			
$9^1 18^1$	$12^1 17^1 18^2$		0.00790(15)			
$9^1 18^1$	$13^2 18^5$		-0.0196(25)		-283.(36)	

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit.

Table A-6. Vibrationally off-diagonal parameters for states of opposite symmetry from multistate Fit A (in cm^{-1}).^a

X	Z	$G_a(X,Z)$	$G_b(X,Z)$	$10^5 \times Z_1(X,Z)$	$10^5 \times Z_3(X,Z)$	$10^5 \times Z_5(X,Z)$
9^1	$16^1 18^2$	0.0445(12)		-9.00(39)		
9^1	$16^1 13^1$	0.1198(58)		16.6(11)	116.61(22)	
9^1	$12^2 18^1$	0.060081(78)			-56.881(72)	-1.280(75)
9^1	$15^1 18^2$	0.02819(82)	0.000815(38)			
9^1	$10^1 18^1$		0.00943(45)			
9^1	$14^1 13^1$			11.01(57)		
9^1	$12^1 18^5$		0.002658(39)			
$12^1 17^1 18^1$	$10^1 18^1$		-0.0721(14)			
8^1	$15^1 13^1$		0.01981(16)			
8^1	$14^1 13^1$		0.0009364(50)	4.89(15)		
8^1	$11^1 18^3$	0.00333(14)				-1.44(12)
7^1	$13^2 18^5$	0.012696(53)				-0.710(34)
7^1	$9^1 18^1$		0.005367(24)	9.081(97)		
7^1	$12^1 17^1 18^2$		0.00507(11)			
$9^1 18^1$	$17^1 13^1 18^3$			12.260(84)		
$9^1 18^1$	$16^1 13^1 18^1$		-0.005169(81)	25.7(20)		
$9^1 18^1$	$12^2 18^2$	0.0567(17)	-0.00822(14)			-18.33(87)
$9^1 18^1$	$15^1 18^3$		-0.002687(55)			

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit.

Table A-7. Vibrationally diagonal parameters for directly observed states of acrolein from multistate Fit B (in cm^{-1}).^a

	$8^1 18^1$	$16^1 17^1$	$7^1 18^1$	$15^1 17^1$	6^1
T_0	1517.3879(1)	1549.6599(1) ^b	1578.3634(1)	1584.8138(1)	1625.8998(1)
A	1.5294818(33)	1.5956061(95)	1.530000(14)	1.570865(14)	1.5789801(50)
$(B + C)/2$	0.14891211(32)	0.14831672(96)	0.14877919(56)	0.14847252(62)	0.14812006(23)
$(B - C)$	0.01373362(67)	0.0136129(20)	0.0136918(31)	0.0138406(24)	0.0139031(15)
$10^5 \times \Delta_K$	0.0182(37)	3.206(13)	-0.694(51)	1.533(48)	1.0744(94)
$10^7 \times \Delta_{JK}$	-3.959(36)	-2.15(31)	2.32(59)	-2.77(50)	-2.804(50)
$10^8 \times \Delta_J$	3.749(28)	3.618(92)	2.94(14)	4.02(13)	3.283(55)
$10^7 \times \delta_K$	[1.90]	7.2(31)	-14.7(50)	16.1(34)	-4.0(21)
$10^9 \times \delta_J$	[4.0]	[4.0]	4.9(16)	6.82(67)	3.17(42)
$10^8 \times H_K$			-18.17(42)	-3.57(51)	-0.424(47)
$10^{10} \times H_{KJ}$			116.(10)	203.1(85)	
n	273	317	377	304	589
rmsd	0.00038	0.00047	0.00036	0.00041	0.00036

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit. n is the number of fitted transitions, and rmsd is the standard deviation in cm^{-1} . The $15^1 17^1$ data include 7 perturbing lines assigned as transitions involving $K_a = 3$ levels of the $12^1 14^1$ state. The 6^1 data include 10 perturbing lines assigned as transitions involving $K_a = 7$ levels of the $11^1 12^1 18^1$ state. For 6^1 , 14 transitions with $K_a' = 13$ were assigned but not included in the fit, which predicts them roughly 0.05 cm^{-1} higher than observed.

^b This is the *perturbed* (real) vibrational origin. The deperturbed origin is: $1549.6614 \text{ cm}^{-1}$. Interaction with $11^1 13^1 18^2$.

Table A-8. Vibrationally diagonal parameters for indirectly observed states of acrolein from multistate Fit B (in cm^{-1}).^a

	$14^1 13^1 18^1$	$12^1 16^1$	$11^1 13^1 18^2$	$12^1 14^1$	$12^2 13^1 18^1$
T_0	1487.0388(96)	1523.575(42)	1553.2339(22) ^b	1564.685(15)	1610.191(18)
A	[1.57299]	[1.59274]	[1.490]	[1.57437]	[1.5615]
$(B + C)/2$	[0.14854]	[0.14828]	[0.148761]	0.148972(19)	0.149531(43)
$(B - C)$	[0.0140]	[0.01375]	[0.013458]	[0.01378]	[0.01368]
$10^5 \times \Delta_K$	[-1.50]	[2.533]	[-1.70]	[0.633]	[-1.40]
$10^7 \times \Delta_{JK}$	[-2.93]	[-2.93]	[-2.93]	[-2.93]	[-2.93]
$10^8 \times \Delta_J$	[3.47]	[3.47]	[3.47]	[3.47]	[3.47]
$10^7 \times \delta_K$	[1.90]	[1.90]	[1.90]	[1.90]	[1.90]
$10^9 \times \delta_j$	[4.0]	[4.0]	[4.0]	[4.0]	[4.0]

	$12^1 17^1 18^3$	$13^4 18^2$	$17^2 18^3$	$11^1 12^1 18^1$	$10^1 13^1 18^1$
T_0	1612.0417(72)	1622.3215(14)	1627.3912(8)	1628.617(23)	1636.0575(19)
A	1.450796(82)	[1.6792]	[1.43849]	1.51982(49)	[1.55895]
$(B + C)/2$	0.148230(83)	0.151366(44)	[0.149449]	0.1490516(40)	0.148502(23)
$(B - C)$	[0.01270]	[0.01380]	[0.012620]	0.01419(26)	[0.01354]
$10^5 \times \Delta_K$	[3.0]	[6.90]	[1.78]	[0.160]	[-3.6]
$10^7 \times \Delta_{JK}$	[-2.93]	[-2.93]	[-2.93]	[-2.93]	[-2.93]
$10^8 \times \Delta_J$	[3.47]	[3.47]	[3.47]	[3.47]	[3.47]
$10^7 \times \delta_K$	[1.90]	[1.90]	[1.90]	[1.90]	[1.90]
$10^9 \times \delta_j$	[4.0]	[4.0]	[4.0]	[4.0]	[4.0]

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit.

^b This is the *perturbed* (real) vibrational origin. The deperturbed origin is: $1553.2324 \text{ cm}^{-1}$. Interaction with $16^1 17^1$.

Table A-9. Vibrationally off-diagonal parameters for states of the same symmetry from multistate Fit B (in cm^{-1}).^a

X	Y	$W(X,Y)$	$G_c(X,Y)$	$10^5 \times Z_1(X,Y)$	$10^5 \times Z_3(X,Y)$	$10^5 \times Z_5(X,Y)$
$12^1 16^1$	$8^1 18^1$			4.89(14)		
$16^1 17^1$	$11^1 13^1 18^2$	0.07320(33)				
$16^1 17^1$	$15^1 17^1$			4.50(12)		
$7^1 18^1$	$12^1 14^1$		0.00278(17)			
$7^1 18^1$	$11^1 12^1 18^1$			47.2(18)		
$15^1 17^1$	6^1			-4.43(14)		
6^1	$12^1 17^1 18^3$		0.003751(34)			

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit.

Table A-10. Vibrationally off-diagonal parameters for states of opposite symmetry from multistate Fit B (in cm^{-1}).^a

X	Z	$G_a(X,Z)$	$G_b(X,Z)$	$10^5 \times Z_1(X,Z)$	$10^5 \times Z_3(X,Z)$	$10^5 \times Z_5(X,Z)$
$8^1 18^1$	$14^1 13^1 18^1$		0.00824(13)			
$16^1 17^1$	$12^1 16^1$	[0.2503] ^b	0.02951(72)	12.3(14)		
$16^1 17^1$	$7^1 18^1$		0.0105(12)	-24.0(23)		
$7^1 18^1$	$12^1 17^1 18^3$		0.00838(62)	21.1(22)		
$7^1 18^1$	6^1			-2.89(74)		
$15^1 17^1$	$12^1 14^1$		0.00439(34)			
$15^1 17^1$	$7^1 18^1$		0.0093642(69)	9.247(54)		
$11^1 12^1 18^1$	$12^1 17^1 18^3$		0.00151(40)			
$11^1 12^1 18^1$	$13^4 18^2$	0.02624(43)				
6^1	$12^2 13^1 18^1$		0.001985(21)			
6^1	$17^2 18^3$	0.00720(25)				-1.23(18)
6^1	$11^1 12^1 18^1$	0.011007(17)	0.001057(85)			
6^1	$10^1 13^1 18^1$		0.002214(42)			

^a Quantities in parentheses are 1σ from the least-squares fit. Parameters in square brackets were fixed in the fit.

^b Coriolis parameter connecting $16^1 17^1$ and $12^1 16^1$ assumed equal to that connecting 17^1 and 12^1 from [7].

Note: in the following tables, $K_c' = K_c'' = 0$ simply indicates an unresolved asymmetry doublet, where the observed line was fitted to the mean of the two calculated components.

Table A-11.	$9^1 \leftarrow 0$ fundamental band	Page 13
Table A-12.	$8^1 \leftarrow 0$ fundamental band	Page 46
Table A-13.	$7^1 \leftarrow 0$ fundamental band	Page 70
Table A-14.	$10^1 18^1 \leftarrow 18^1$ hot band	Page 95
Table A-15.	$9^1 18^1 \leftarrow 18^1$ hot band	Page 96
Table A-16.	$6^1 \leftarrow 0$ fundamental band	Page 106
Table A-17.	$8^1 18^1 \leftarrow 18^1$ hot band	Page 119
Table A-18.	$7^1 18^1 \leftarrow 18^1$ hot band	Page 125
Table A-19.	$16^1 17^1 \leftarrow 0$ combination band	Page 134
Table A-20.	$15^1 17^1 \leftarrow 0$ combination band	Page 141

Table A-11. Observed and calculated (Fit A) transitions of acrolein in the $9^1 \leftarrow 0$ fundamental band (values in cm^{-1}).

*These perturbing state transitions are assigned to the $12^2 18^1$ state.

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
4	0	4	4	1	3	1273.0229	1273.0228	0.0001	1.0
4	0	4	5	1	5	1271.7125	1271.7123	0.0002	1.0
5	0	5	5	1	4	1272.9860	1272.9859	0.0001	1.0
5	0	5	6	1	6	1271.4554	1271.4553	0.0001	1.0
6	0	6	6	1	5	1272.9409	1272.9408	0.0001	1.0
6	0	6	7	1	7	1271.2041	1271.2041	0.0000	1.0
7	0	7	7	1	6	1272.8870	1272.8870	0.0000	1.0
7	0	7	8	1	8	1270.9583	1270.9582	0.0001	1.0
9	0	9	9	1	8	1272.7514	1272.7512	0.0002	1.0
9	0	9	10	1	10	1270.4807	1270.4804	0.0003	1.0
10	0	10	10	1	9	1272.6682	1272.6681	0.0001	1.0
11	0	11	11	1	10	1272.5741	1272.5740	0.0001	1.0
11	0	11	12	1	12	1270.0171	1270.0169	0.0002	1.0
12	0	12	12	1	11	1272.4683	1272.4682	0.0001	1.0
12	0	12	13	1	13	1269.7880	1269.7888	-0.0008	1.0
13	0	13	13	1	12	1272.3502	1272.3501	0.0001	1.0
13	0	13	14	1	14	1269.5615	1269.5620	-0.0005	1.0
14	0	14	14	1	13	1272.2191	1272.2190	0.0001	1.0
14	0	14	15	1	15	1269.3362	1269.3359	0.0003	1.0
15	0	15	15	1	14	1272.0746	1272.0745	0.0001	1.0
15	0	15	16	1	16	1269.1095	1269.1095	0.0000	1.0

16	0	16	17	1	17	1268.8824	1268.8823	0.0001	1.0
18	0	18	19	1	19	1268.4228	1268.4226	0.0002	1.0
19	0	19	20	1	20	1268.1889	1268.1891	-0.0002	1.0
20	0	20	21	1	21	1267.9530	1267.9525	0.0005	1.0
21	0	21	20	1	20	1280.1129	1280.1128	0.0001	1.0
21	0	21	22	1	22	1267.7135	1267.7127	0.0008	1.0
22	0	22	21	1	21	1280.4409	1280.4407	0.0002	1.0
22	0	22	23	1	23	1267.4697	1267.4693	0.0004	1.0
23	0	23	24	1	24	1267.2227	1267.2223	0.0004	1.0
24	0	24	25	1	25	1266.9716	1266.9717	-0.0001	1.0
25	0	25	26	1	26	1266.7177	1266.7176	0.0001	1.0
26	0	26	27	1	27	1266.4600	1266.4599	0.0001	1.0
27	0	27	28	1	28	1266.1986	1266.1990	-0.0004	1.0
28	0	28	29	1	29	1265.9349	1265.9350	-0.0001	1.0
29	0	29	28	1	28	1282.6258	1282.6258	0.0000	1.0
29	0	29	30	1	30	1265.6679	1265.6680	-0.0001	1.0
30	0	30	29	1	29	1282.9241	1282.9241	0.0000	1.0
30	0	30	31	1	31	1265.3983	1265.3983	0.0000	1.0
31	0	31	32	1	32	1265.1262	1265.1262	0.0000	1.0
32	0	32	33	1	33	1264.8521	1264.8518	0.0003	1.0
33	0	33	34	1	34	1264.5749	1264.5753	-0.0004	1.0
34	0	34	35	1	35	1264.2970	1264.2969	0.0001	1.0
34	0	34	35	1	35	1264.2970	1264.2969	0.0001	1.0
35	0	35	36	1	36	1264.0169	1264.0169	0.0000	1.0
35	0	35	34	1	34	1284.3777	1284.3782	-0.0005	1.0
35	0	35	36	1	36	1264.0170	1264.0169	0.0001	1.0
36	0	36	35	1	35	1284.6631	1284.6630	0.0001	1.0
36	0	36	37	1	37	1263.7357	1263.7354	0.0004	1.0
37	0	37	36	1	36	1284.9463	1284.9463	0.0000	1.0
37	0	37	38	1	38	1263.4525	1263.4524	0.0001	1.0
38	0	38	37	1	37	1285.2284	1285.2282	0.0002	1.0
38	0	38	39	1	39	1263.1686	1263.1683	0.0003	1.0
39	0	39	38	1	38	1285.5085	1285.5088	-0.0003	1.0
39	0	39	40	1	40	1262.8830	1262.8831	-0.0001	1.0
40	0	40	39	1	39	1285.7882	1285.7883	-0.0001	1.0
40	0	40	41	1	41	1262.5972	1262.5969	0.0003	1.0
41	0	41	40	1	40	1286.0668	1286.0668	0.0000	1.0
41	0	41	42	1	42	1262.3094	1262.3098	-0.0004	1.0
42	0	42	41	1	41	1286.3444	1286.3443	0.0001	1.0
42	0	42	43	1	43	1262.0221	1262.0219	0.0002	1.0
43	0	43	42	1	42	1286.6216	1286.6210	0.0006	1.0
43	0	43	44	1	44	1261.7344	1261.7333	0.0011	1.0
44	0	44	43	1	43	1286.8965	1286.8969	-0.0004	1.0
44	0	44	45	1	45	1261.4439	1261.4441	-0.0002	1.0
45	0	45	44	1	44	1287.1722	1287.1722	0.0000	0.0
4	1	4	5	0	5	1274.4085	1274.4080	0.0005	1.0

4	1	4	3	0	3	1277.0774	1277.0775	-0.0001	1.0
5	1	5	6	0	6	1274.0788	1274.0786	0.0002	1.0
5	1	5	4	0	4	1277.3392	1277.3394	-0.0002	1.0
6	1	6	7	0	7	1273.7442	1273.7438	0.0004	1.0
6	1	6	5	0	5	1277.5949	1277.5948	0.0001	1.0
7	1	7	8	0	8	1273.4042	1273.4041	0.0001	1.0
7	1	7	6	0	6	1277.8435	1277.8441	-0.0006	0.1
8	1	8	9	0	9	1273.0601	1273.0603	-0.0002	1.0
8	1	8	7	0	7	1278.0878	1278.0877	0.0001	1.0
9	1	9	10	0	10	1272.7128	1272.7129	-0.0001	1.0
9	1	9	8	0	8	1278.3261	1278.3261	0.0000	1.0
9	1	9	9	2	8	1269.9130	1269.9129	0.0002	1.0
10	1	10	11	0	11	1272.3629	1272.3627	0.0002	1.0
10	1	10	9	0	9	1278.5600	1278.5599	0.0001	1.0
10	1	10	10	2	9	1269.8401	1269.8402	-0.0001	1.0
11	1	11	12	0	12	1272.0104	1272.0105	-0.0001	1.0
11	1	11	11	2	10	1269.7600	1269.7601	-0.0001	1.0
12	1	12	13	0	13	1271.6570	1271.6570	0.0000	1.0
12	1	12	12	2	11	1269.6725	1269.6725	0.0000	1.0
13	1	13	14	0	14	1271.3030	1271.3030	0.0000	1.0
13	1	13	12	0	12	1279.2408	1279.2403	0.0005	1.0
13	1	13	13	2	12	1269.5775	1269.5772	0.0003	1.0
14	1	14	15	0	15	1270.9487	1270.9492	-0.0005	1.0
14	1	14	14	2	13	1269.4743	1269.4743	0.0000	1.0
15	1	15	16	0	16	1270.5965	1270.5964	0.0001	1.0
15	1	15	15	2	14	1269.3638	1269.3638	0.0000	1.0
16	1	16	16	2	15	1269.2461	1269.2456	0.0006	1.0
17	1	17	18	0	18	1269.8964	1269.8964	0.0000	1.0
17	1	17	16	0	16	1280.1263	1280.1260	0.0003	1.0
17	1	17	17	2	16	1269.1198	1269.1197	0.0001	1.0
18	1	18	19	0	19	1269.5500	1269.5501	-0.0001	1.0
18	1	18	17	0	17	1280.3485	1280.3484	0.0001	1.0
18	1	18	18	2	17	1268.9861	1268.9861	0.0000	1.0
19	1	19	20	0	20	1269.2070	1269.2070	0.0000	1.0
19	1	19	18	0	18	1280.5725	1280.5725	0.0000	1.0
19	1	19	19	2	18	1268.8451	1268.8450	0.0001	1.0
20	1	20	21	0	21	1268.8674	1268.8672	0.0002	1.0
20	1	20	19	0	19	1280.7990	1280.7987	0.0003	1.0
21	1	21	22	0	22	1268.5312	1268.5309	0.0003	1.0
21	1	21	20	0	20	1281.0278	1281.0275	0.0003	1.0
21	1	21	21	2	20	1268.5396	1268.5400	-0.0004	1.0
22	1	22	23	0	23	1268.1985	1268.1984	0.0002	1.0
22	1	22	21	0	21	1281.2593	1281.2591	0.0002	1.0
22	1	22	22	2	21	1268.3767	1268.3764	0.0003	1.0
23	1	23	24	0	24	1267.8702	1267.8695	0.0007	1.0
23	1	23	22	0	22	1281.4946	1281.4939	0.0007	1.0

23	1	23	23	2	22	1268.2063	1268.2056	0.0007	1.0
24	1	24	23	0	23	1281.7327	1281.7332	-0.0005	1.0
25	1	25	26	0	26	1267.2194	1267.2192	0.0002	1.0
25	1	25	24	0	24	1281.9699	1281.9697	0.0002	1.0
25	1	25	25	2	24	1267.8398	1267.8394	0.0004	1.0
26	1	26	27	0	27	1266.9013	1266.9015	-0.0002	1.0
26	1	26	25	0	25	1282.2144	1282.2148	-0.0004	1.0
26	1	26	26	2	25	1267.6481	1267.6483	-0.0002	1.0
27	1	27	28	0	28	1266.5860	1266.5859	0.0002	1.0
27	1	27	26	0	26	1282.4613	1282.4618	-0.0005	1.0
27	1	27	27	2	26	1267.4488	1267.4496	-0.0008	1.0
28	1	28	29	0	29	1266.2727	1266.2729	-0.0002	1.0
28	1	28	27	0	27	1282.7115	1282.7116	-0.0001	1.0
29	1	29	30	0	30	1265.9623	1265.9624	-0.0001	1.0
29	1	29	28	0	28	1282.9640	1282.9639	0.0001	1.0
29	1	29	29	2	28	1267.0324	1267.0325	-0.0001	1.0
30	1	30	31	0	31	1265.6542	1265.6542	0.0000	1.0
30	1	30	29	0	29	1283.2190	1283.2187	0.0003	0.1
30	1	30	30	2	29	1266.8141	1266.8146	-0.0005	1.0
31	1	31	32	0	32	1265.3478	1265.3481	-0.0003	1.0
31	1	31	30	0	30	1283.4753	1283.4756	-0.0003	0.1
31	1	31	31	2	30	1266.5910	1266.5909	0.0001	1.0
32	1	32	33	0	33	1265.0439	1265.0438	0.0001	1.0
32	1	32	31	0	31	1283.7346	1283.7346	0.0000	1.0
32	1	32	32	2	31	1266.3616	1266.3616	0.0000	1.0
33	1	33	34	0	34	1264.7411	1264.7412	-0.0001	1.0
33	1	33	32	0	32	1283.9954	1283.9954	0.0000	1.0
33	1	33	33	2	32	1266.1273	1266.1270	0.0003	1.0
34	1	34	35	0	35	1264.4396	1264.4401	-0.0005	1.0
34	1	34	33	0	33	1284.2578	1284.2577	0.0001	1.0
34	1	34	34	2	33	1265.8877	1265.8873	0.0004	1.0
35	1	35	36	0	36	1264.1400	1264.1401	-0.0001	1.0
35	1	35	34	0	34	1284.5213	1284.5214	-0.0001	1.0
36	1	36	37	0	37	1263.8411	1263.8413	-0.0002	1.0
36	1	36	35	0	35	1284.7863	1284.7864	-0.0001	1.0
36	1	36	36	2	35	1265.3955	1265.3938	0.0017	0.1
37	1	37	38	0	38	1263.5433	1263.5434	-0.0001	1.0
37	1	37	36	0	36	1285.0525	1285.0524	0.0001	1.0
38	1	38	39	0	39	1263.2462	1263.2463	-0.0001	1.0
38	1	38	37	0	37	1285.3193	1285.3193	0.0000	1.0
38	1	38	38	2	37	1264.8828	1264.8833	-0.0005	1.0
39	1	39	40	0	40	1262.9497	1262.9499	-0.0002	1.0
39	1	39	38	0	38	1285.5867	1285.5869	-0.0002	1.0
40	1	40	41	0	41	1262.6540	1262.6540	0.0000	1.0
40	1	40	39	0	39	1285.8557	1285.8552	0.0005	1.0
40	1	40	40	2	39	1264.3581	1264.3580	0.0001	1.0

41	1	41	42	0	42	1262.3584	1262.3587	-0.0003	1.0
41	1	41	40	0	40	1286.1239	1286.1240	-0.0001	1.0
41	1	41	41	2	40	1264.0890	1264.0904	-0.0014	1.0
42	1	42	43	0	43	1262.0638	1262.0636	0.0002	1.0
42	1	42	41	0	41	1286.3932	1286.3932	0.0000	1.0
43	1	43	44	0	44	1261.7690	1261.7689	0.0001	1.0
43	1	43	42	0	42	1286.6629	1286.6628	0.0002	1.0
44	1	44	43	0	43	1286.9326	1286.9326	0.0001	1.0
45	1	45	44	0	44	1287.2028	1287.2025	0.0003	1.0
5	1	4	5	0	5	1276.0673	1276.0671	0.0002	1.0
5	1	4	5	2	3	1270.3365	1270.3362	0.0003	1.0
5	1	4	6	2	5	1268.5587	1268.5585	0.0002	1.0
6	1	5	6	0	6	1276.1113	1276.1112	0.0001	1.0
6	1	5	6	2	4	1270.3739	1270.3737	0.0002	1.0
6	1	5	7	2	6	1268.3033	1268.3029	0.0004	1.0
7	1	6	7	0	7	1276.1638	1276.1638	0.0000	1.0
7	1	6	7	2	5	1270.4158	1270.4157	0.0001	1.0
7	1	6	8	2	7	1268.0537	1268.0542	-0.0005	1.0
8	1	7	8	0	8	1276.2256	1276.2254	0.0002	1.0
8	1	7	8	2	6	1270.4615	1270.4616	-0.0001	1.0
8	1	7	9	2	8	1267.8130	1267.8122	0.0008	1.0
9	1	8	9	0	9	1276.2965	1276.2965	0.0000	1.0
9	1	8	9	2	7	1270.5105	1270.5104	0.0001	1.0
10	1	9	10	0	10	1276.3776	1276.3778	-0.0002	1.0
10	1	9	10	2	8	1270.5612	1270.5612	0.0000	1.0
11	1	10	11	0	11	1276.4698	1276.4697	0.0001	1.0
11	1	10	11	2	9	1270.6128	1270.6129	-0.0001	1.0
11	1	10	12	2	11	1267.1262	1267.1259	0.0003	1.0
12	1	11	12	0	12	1276.5732	1276.5731	0.0001	1.0
12	1	11	12	2	10	1270.6640	1270.6644	-0.0004	1.0
12	1	11	13	2	12	1266.9082	1266.9100	-0.0018	0.1
13	1	12	13	2	11	1270.7144	1270.7145	-0.0001	1.0
13	1	12	14	2	13	1266.7012	1266.7003	0.0010	1.0
14	1	13	14	0	14	1276.8167	1276.8165	0.0002	1.0
14	1	13	14	2	12	1270.7619	1270.7620	-0.0001	1.0
14	1	13	15	2	14	1266.4953	1266.4965	-0.0012	0.1
15	1	14	15	0	15	1276.9575	1276.9576	-0.0001	1.0
15	1	14	15	2	13	1270.8057	1270.8056	0.0001	1.0
15	1	14	16	2	15	1266.2978	1266.2985	-0.0007	1.0
16	1	15	16	0	16	1277.1126	1277.1124	0.0002	1.0
16	1	15	16	2	14	1270.8442	1270.8441	0.0001	1.0
16	1	15	17	2	16	1266.1061	1266.1061	0.0000	1.0
17	1	16	17	0	17	1277.2811	1277.2811	0.0000	1.0
17	1	16	17	2	15	1270.8765	1270.8764	0.0001	1.0
17	1	16	18	2	17	1265.9190	1265.9188	0.0002	1.0
18	1	17	18	0	18	1277.4642	1277.4640	0.0003	1.0

18	1	17	18	2	16	1270.9012	1270.9012	0.0000	1.0
18	1	17	19	2	18	1265.7366	1265.7365	0.0002	1.0
19	1	18	19	0	19	1277.6611	1277.6610	0.0001	1.0
19	1	18	19	2	17	1270.9177	1270.9174	0.0003	1.0
19	1	18	20	2	19	1265.5588	1265.5586	0.0002	1.0
20	1	19	20	0	20	1277.8726	1277.8722	0.0004	1.0
20	1	19	20	2	18	1270.9240	1270.9239	0.0001	1.0
20	1	19	21	2	20	1265.3847	1265.3848	-0.0001	1.0
21	1	20	21	0	21	1278.0975	1278.0972	0.0003	1.0
21	1	20	21	2	19	1270.9201	1270.9198	0.0003	1.0
21	1	20	22	2	21	1265.2148	1265.2145	0.0003	1.0
22	1	21	22	0	22	1278.3359	1278.3357	0.0003	1.0
22	1	21	22	2	20	1270.9050	1270.9042	0.0008	0.1
22	1	21	23	2	22	1265.0471	1265.0474	-0.0003	1.0
23	1	22	23	0	23	1278.5871	1278.5869	0.0002	1.0
23	1	22	23	2	21	1270.8765	1270.8762	0.0003	1.0
23	1	22	24	2	23	1264.8828	1264.8826	0.0002	1.0
24	1	23	24	0	24	1278.8494	1278.8501	-0.0007	1.0
24	1	23	24	2	22	1270.8351	1270.8349	0.0002	1.0
24	1	23	25	2	24	1264.7198	1264.7197	0.0001	1.0
25	1	24	25	0	25	1279.1247	1279.1244	0.0003	1.0
25	1	24	25	2	23	1270.7804	1270.7798	0.0006	1.0
25	1	24	26	2	25	1264.5580	1264.5580	0.0000	1.0
26	1	25	26	0	26	1279.4092	1279.4089	0.0003	1.0
26	1	25	26	2	24	1270.7101	1270.7101	0.0001	1.0
26	1	25	27	2	26	1264.3969	1264.3967	0.0002	1.0
26	1	25	27	1	26	1266.4082	1266.4083	-0.0001	1.0
27	1	26	27	0	27	1279.7024	1279.7024	0.0000	1.0
27	1	26	27	2	25	1270.6253	1270.6251	0.0002	1.0
27	1	26	28	2	27	1264.2353	1264.2351	0.0002	1.0
27	1	26	26	1	25	1282.5933	1282.5932	0.0001	1.0
27	1	26	28	1	27	1266.1149	1266.1154	-0.0005	1.0
28	1	27	28	0	28	1280.0039	1280.0038	0.0001	1.0
28	1	27	28	2	26	1270.5244	1270.5243	0.0001	1.0
28	1	27	29	2	28	1264.0728	1264.0723	0.0005	1.0
28	1	27	27	1	26	1282.8792	1282.8791	0.0001	1.0
29	1	28	29	0	29	1280.3116	1280.3118	-0.0002	1.0
29	1	28	29	2	27	1270.4075	1270.4072	0.0003	1.0
29	1	28	30	2	29	1263.9077	1263.9077	0.0000	1.0
29	1	28	28	1	27	1283.1636	1283.1635	0.0001	1.0
30	1	29	30	0	30	1280.6251	1280.6251	0.0000	1.0
30	1	29	30	2	28	1270.2729	1270.2734	-0.0005	1.0
30	1	29	31	2	30	1263.7401	1263.7404	-0.0003	1.0
30	1	29	29	1	28	1283.4462	1283.4463	-0.0001	1.0
30	1	29	31	1	30	1265.2413	1265.2415	-0.0002	1.0
31	1	30	31	0	31	1280.9425	1280.9426	-0.0001	1.0

31	1	30	31	2	29	1270.1222	1270.1223	-0.0001	1.0
31	1	30	32	2	31	1263.5696	1263.5696	0.0000	1.0
31	1	30	30	1	29	1283.7276	1283.7274	0.0002	1.0
31	1	30	32	1	31	1264.9511	1264.9513	-0.0002	1.0
32	1	31	32	2	30	1269.9534	1269.9537	-0.0003	1.0
32	1	31	33	2	32	1263.3944	1263.3945	-0.0001	1.0
32	1	31	31	1	30	1284.0060	1284.0067	-0.0007	1.0
33	1	32	33	0	33	1281.5841	1281.5844	-0.0003	1.0
33	1	32	33	2	31	1269.7667	1269.7669	-0.0002	1.0
33	1	32	34	2	33	1263.2137	1263.2140	-0.0003	1.0
33	1	32	32	1	31	1284.2838	1284.2839	-0.0001	1.0
34	1	33	34	0	34	1281.9046	1281.9051	-0.0005	1.0
34	1	33	34	2	32	1269.5615	1269.5610	0.0005	1.0
34	1	33	35	2	34	1263.0262	1263.0265	-0.0003	1.0
34	1	33	33	1	32	1284.5574	1284.5578	-0.0004	1.0
34	1	33	35	1	34	1264.0794	1264.0796	-0.0002	1.0
35	1	34	35	0	35	1282.2192	1282.2187	0.0005	1.0
35	1	34	35	2	33	1269.3307	1269.3306	0.0001	1.0
35	1	34	36	2	35	1262.8263	1262.8261	0.0002	1.0
35	1	34	34	1	33	1284.8226	1284.8232	-0.0006	1.0
35	1	34	36	1	35	1263.7812	1263.7810	0.0002	1.0
39	1	38	39	0	39	1283.5391	1283.5386	0.0005	1.0
39	1	38	39	2	37	1268.3249	1268.3246	0.0003	1.0
39	1	38	40	2	39	1262.0417	1262.0414	0.0004	1.0
39	1	38	38	1	37	1285.9528	1285.9524	0.0004	1.0
39	1	38	40	1	39	1262.6657	1262.6651	0.0006	1.0
40	1	39	40	0	40	1283.8525	1283.8528	-0.0003	1.0
40	1	39	40	2	38	1268.0257	1268.0259	-0.0002	1.0
40	1	39	41	2	40	1261.8190	1261.8191	-0.0001	1.0
40	1	39	39	1	38	1286.2207	1286.2224	-0.0017	0.1
40	1	39	41	1	40	1262.3758	1262.3756	0.0002	1.0
41	1	40	41	0	41	1284.1642	1284.1646	-0.0004	0.1
41	1	40	41	2	39	1267.7135	1267.7147	-0.0012	1.0
41	1	40	42	2	41	1261.5913	1261.5911	0.0002	1.0
41	1	40	40	1	39	1286.4923	1286.4923	0.0000	1.0
41	1	40	42	1	41	1262.0859	1262.0861	-0.0002	1.0
42	1	41	42	0	42	1284.4721	1284.4728	-0.0007	1.0
42	1	41	42	2	40	1267.3908	1267.3912	-0.0004	1.0
42	1	41	43	2	42	1261.3562	1261.3566	-0.0004	1.0
42	1	41	41	1	40	1286.7605	1286.7610	-0.0005	1.0
42	1	41	43	1	42	1261.7948	1261.7957	-0.0009	1.0
43	1	42	43	0	43	1284.7754	1284.7751	0.0003	1.0
43	1	42	43	2	41	1267.0552	1267.0542	0.0010	1.0
43	1	42	44	2	43	1261.1135	1261.1133	0.0002	1.0
43	1	42	42	1	41	1287.0262	1287.0263	-0.0001	1.0
43	1	42	44	1	43	1261.5013	1261.5019	-0.0006	1.0

9	2	8	9	1	9	1279.1445	1279.1449	-0.0004	1.0
10	2	9	11	3	8	1264.0955	1264.0957	-0.0002	1.0
10	2	9	10	1	10	1279.2140	1279.2145	-0.0005	1.0
10	2	9	10	3	8	1267.3660	1267.3661	-0.0001	1.0
10	2	9	9	1	8	1281.4856	1281.4854	0.0002	1.0
11	2	10	12	3	9	1263.7898	1263.7897	0.0001	1.0
11	2	10	11	1	11	1279.2912	1279.2914	-0.0002	1.0
11	2	10	11	3	9	1267.3588	1267.3586	0.0002	1.0
11	2	10	11	1	11	1279.2912	1279.2914	-0.0002	1.0
12	2	11	13	3	10	1263.4812	1263.4813	-0.0001	1.0
12	2	11	12	1	12	1279.3754	1279.3754	0.0000	1.0
12	2	11	12	3	10	1267.3486	1267.3492	-0.0006	1.0
12	2	11	11	1	10	1281.9325	1281.9325	0.0000	1.0
13	2	12	13	1	13	1279.4666	1279.4668	-0.0002	1.0
13	2	12	13	3	11	1267.3376	1267.3376	0.0001	1.0
13	2	12	12	1	11	1282.1457	1282.1461	-0.0004	1.0
14	2	13	15	3	12	1262.8550	1262.8551	-0.0001	1.0
14	2	13	14	1	14	1279.5652	1279.5654	-0.0002	1.0
14	2	13	14	3	12	1267.3234	1267.3234	0.0000	1.0
15	2	14	14	1	13	1282.5545	1282.5544	0.0001	1.0
16	2	15	17	3	14	1262.2132	1262.2131	0.0002	1.0
16	2	15	16	1	16	1279.7844	1279.7845	-0.0001	1.0
16	2	15	16	3	14	1267.2863	1267.2863	0.0000	1.0
16	2	15	15	1	14	1282.7493	1282.7494	-0.0001	1.0
17	2	16	17	1	17	1279.9049	1279.9050	-0.0001	1.0
17	2	16	17	3	15	1267.2628	1267.2626	0.0002	1.0
18	2	17	19	3	16	1261.5497	1261.5499	-0.0002	1.0
18	2	17	18	1	18	1280.0325	1280.0328	-0.0003	1.0
18	2	17	18	3	16	1267.2351	1267.2352	-0.0001	1.0
18	2	17	17	1	16	1283.1223	1283.1224	-0.0001	1.0
19	2	18	20	3	17	1261.2084	1261.2085	-0.0001	1.0
19	2	18	19	1	19	1280.1679	1280.1678	0.0001	1.0
19	2	18	19	3	17	1267.2037	1267.2036	0.0002	1.0
19	2	18	19	1	19	1280.1679	1280.1678	0.0001	1.0
20	2	19	21	3	18	1260.8601	1260.8596	0.0005	1.0
20	2	19	20	1	20	1280.3101	1280.3101	0.0001	1.0
20	2	19	20	3	18	1267.1673	1267.1674	-0.0001	1.0
21	2	20	22	3	19	1260.5021	1260.5020	0.0001	1.0
21	2	20	21	1	21	1280.4594	1280.4594	0.0000	1.0
21	2	20	21	3	19	1267.1263	1267.1265	-0.0002	1.0
21	2	20	20	1	19	1283.6441	1283.6440	0.0001	1.0
22	2	21	23	3	20	1260.1350	1260.1350	0.0000	1.0
22	2	21	22	1	22	1280.6156	1280.6157	-0.0001	1.0
22	2	21	22	3	20	1267.0803	1267.0804	-0.0001	1.0
22	2	21	21	1	20	1283.8090	1283.8093	-0.0003	1.0
23	2	22	24	3	21	1259.7574	1259.7574	0.0000	1.0

23	2	22	23	1	23	1280.7790	1280.7789	0.0001	1.0
23	2	22	23	3	21	1267.0289	1267.0288	0.0001	1.0
23	2	22	22	1	21	1283.9711	1283.9712	-0.0001	1.0
24	2	23	25	3	22	1259.3684	1259.3681	0.0003	1.0
24	2	23	24	1	24	1280.9487	1280.9488	-0.0001	1.0
24	2	23	23	1	22	1284.1304	1284.1301	0.0003	1.0
25	2	24	25	1	25	1281.1254	1281.1252	0.0002	1.0
25	2	24	25	3	23	1266.9082	1266.9080	0.0002	1.0
25	2	24	24	1	23	1284.2866	1284.2867	-0.0001	1.0
26	2	25	27	3	24	1258.5501	1258.5501	0.0000	1.0
26	2	25	26	1	26	1281.3078	1281.3080	-0.0002	1.0
26	2	25	26	3	24	1266.8381	1266.8381	0.0000	1.0
27	2	26	28	3	25	1258.1189	1258.1189	0.0000	1.0
27	2	26	27	1	27	1281.4981	1281.4968	0.0013	0.1
27	2	26	27	3	25	1266.7615	1266.7616	-0.0001	1.0
28	2	27	29	3	26	1257.6713	1257.6712	0.0002	1.0
28	2	27	28	3	26	1266.6778	1266.6778	0.0000	1.0
28	2	27	27	1	26	1284.7484	1284.7482	0.0002	1.0
29	2	28	30	3	27	1257.2054	1257.2054	0.0000	1.0
29	2	28	29	1	29	1281.8911	1281.8908	0.0003	1.0
29	2	28	29	3	27	1266.5860	1266.5864	-0.0004	1.0
29	2	28	28	1	27	1284.9010	1284.9009	0.0001	1.0
30	2	29	31	3	28	1256.7194	1256.7196	-0.0002	1.0
30	2	29	30	3	28	1266.4863	1266.4861	0.0003	1.0
30	2	29	29	1	28	1285.0525	1285.0532	-0.0007	1.0
30	2	29	31	2	30	1265.3478	1265.3473	0.0005	1.0
31	2	30	32	3	29	1256.2080	1256.2089	-0.0009	0.1
31	2	30	31	1	31	1282.2979	1282.2973	0.0006	1.0
31	2	30	31	3	29	1266.3732	1266.3729	0.0003	1.0
31	2	30	30	1	29	1285.2021	1285.2019	0.0003	1.0
31	2	30	30	2	29	1283.5777	1283.5775	0.0002	1.0
31	2	30	32	2	31	1265.0439	1265.0441	-0.0002	1.0
33	2	32	34	3	31	1255.2048	1255.2051	-0.0003	0.1
33	2	32	33	1	33	1282.7972	1282.7977	-0.0005	1.0
33	2	32	33	3	31	1266.2040	1266.2033	0.0007	1.0
33	2	32	32	1	31	1285.5867	1285.5869	-0.0002	1.0
33	2	32	32	2	31	1284.2047	1284.2052	-0.0005	1.0
33	2	32	34	2	33	1264.5160	1264.5170	-0.0010	0.1
34	2	33	35	3	32	1254.6241	1254.6248	-0.0007	0.1
34	2	33	34	1	34	1283.0087	1283.0087	0.0000	1.0
34	2	33	34	3	32	1266.0612	1266.0611	0.0002	1.0
34	2	33	33	1	32	1285.7391	1285.7389	0.0003	1.0
34	2	33	33	2	32	1284.4718	1284.4719	-0.0001	1.0
34	2	33	35	2	34	1264.2072	1264.2075	-0.0003	1.0
35	2	34	36	3	33	1254.0224	1254.0228	-0.0004	1.0
35	2	34	35	1	35	1283.2247	1283.2246	0.0001	1.0

35	2	34	35	3	33	1265.9119	1265.9118	0.0001	1.0
35	2	34	34	1	33	1285.8958	1285.8959	-0.0001	1.0
35	2	34	34	2	33	1284.7388	1284.7386	0.0002	1.0
35	2	34	36	2	35	1263.8990	1263.8988	0.0002	1.0
36	2	35	37	3	34	1253.4136	1253.4140	-0.0004	1.0
36	2	35	36	1	36	1283.4606	1283.4605	0.0001	1.0
36	2	35	36	3	34	1265.7706	1265.7708	-0.0002	1.0
36	2	35	35	1	34	1286.0738	1286.0738	0.0000	1.0
36	2	35	35	2	34	1285.0216	1285.0206	0.0010	0.1
36	2	35	37	2	36	1263.6060	1263.6061	-0.0001	1.0
37	2	36	38	3	35	1252.7802	1252.7804	-0.0002	1.0
37	2	36	37	1	37	1283.6988	1283.6983	0.0005	1.0
37	2	36	37	3	35	1265.6200	1265.6203	-0.0003	1.0
37	2	36	36	1	35	1286.2553	1286.2551	0.0002	1.0
37	2	36	38	2	37	1263.3124	1263.3118	0.0007	1.0
38	2	37	39	3	36	1252.1233	1252.1237	-0.0004	1.0
38	2	37	38	1	38	1283.9406	1283.9396	0.0010	1.0
38	2	37	38	3	36	1265.4621	1265.4622	-0.0001	1.0
38	2	37	37	1	36	1286.4419	1286.4419	0.0001	1.0
38	2	37	37	2	36	1285.5792	1285.5791	0.0001	1.0
38	2	37	39	2	38	1263.0175	1263.0174	0.0001	1.0
39	2	38	39	1	39	1284.1834	1284.1838	-0.0004	1.0
39	2	38	39	3	37	1265.2966	1265.2963	0.0003	1.0
39	2	38	38	1	37	1286.6337	1286.6340	-0.0003	1.0
39	2	38	38	2	37	1285.8557	1285.8572	-0.0015	0.1
39	2	38	40	2	39	1262.7226	1262.7229	-0.0003	1.0
40	2	39	41	3	38	1250.7395	1250.7398	-0.0003	1.0
40	2	39	40	1	40	1284.4319	1284.4303	0.0016	0.1
40	2	39	40	3	38	1265.1219	1265.1222	-0.0003	1.0
40	2	39	39	1	38	1286.8314	1286.8311	0.0003	1.0
40	2	39	39	2	38	1286.1341	1286.1339	0.0002	1.0
40	2	39	41	2	40	1262.4284	1262.4278	0.0006	1.0
7	2	5	7	1	6	1278.6507	1278.6507	0.0000	1.0
9	2	7	9	1	8	1278.5533	1278.5535	-0.0002	1.0
10	2	8	10	3	7	1267.4162	1267.4158	0.0004	1.0
10	2	8	9	1	9	1282.1608	1282.1610	-0.0002	1.0
11	2	9	12	3	10	1263.8646	1263.8648	-0.0002	1.0
11	2	9	11	3	8	1267.4298	1267.4300	-0.0002	1.0
11	2	9	11	1	10	1278.4483	1278.4481	0.0002	1.0
11	2	9	10	1	10	1282.5487	1282.5488	-0.0001	1.0
12	2	10	13	3	11	1263.5866	1263.5863	0.0003	1.0
12	2	10	12	1	11	1278.3948	1278.3949	-0.0001	1.0
13	2	11	14	3	12	1263.3124	1263.3131	-0.0007	1.0
13	2	11	13	1	12	1278.3431	1278.3431	0.0001	1.0
13	2	11	12	1	12	1283.3654	1283.3655	-0.0001	1.0
14	2	12	15	3	13	1263.0459	1263.0457	0.0002	1.0

14	2	12	14	1	13	1278.2937	1278.2937	0.0000	1.0
14	2	12	14	1	13	1278.2937	1278.2937	0.0000	1.0
14	2	12	13	1	13	1283.7970	1283.7967	0.0003	1.0
15	2	13	16	3	14	1262.7849	1262.7849	0.0000	1.0
15	2	13	15	1	14	1278.2474	1278.2481	-0.0007	1.0
15	2	13	15	3	12	1267.5339	1267.5341	-0.0002	1.0
16	2	14	17	3	15	1262.5314	1262.5314	0.0000	1.0
16	2	14	16	1	15	1278.2074	1278.2075	-0.0001	1.0
16	2	14	16	1	15	1278.2074	1278.2075	-0.0001	1.0
17	2	15	17	3	14	1267.6215	1267.6217	-0.0002	1.0
17	2	15	16	1	16	1285.1930	1285.1931	-0.0001	1.0
18	2	16	19	3	17	1262.0486	1262.0485	0.0001	1.0
18	2	16	18	1	17	1278.1458	1278.1459	-0.0001	1.0
18	2	16	18	3	15	1267.6754	1267.6754	0.0001	1.0
18	2	16	18	1	17	1278.1458	1278.1459	-0.0001	1.0
18	2	16	17	1	17	1285.6955	1285.6959	-0.0004	1.0
19	2	17	20	3	18	1261.8190	1261.8200	-0.0010	1.0
19	2	17	19	1	18	1278.1273	1278.1272	0.0001	1.0
19	2	17	19	3	16	1267.7358	1267.7357	0.0001	1.0
19	2	17	19	1	18	1278.1273	1278.1272	0.0001	1.0
20	2	18	21	3	19	1261.6004	1261.6005	-0.0001	1.0
20	2	18	20	3	17	1267.8025	1267.8025	0.0000	1.0
20	2	18	19	1	19	1286.7605	1286.7618	-0.0013	1.0
21	2	19	22	3	20	1261.3905	1261.3904	0.0001	1.0
21	2	19	21	3	18	1267.8753	1267.8753	0.0000	1.0
22	2	20	23	3	21	1261.1892	1261.1896	-0.0004	1.0
22	2	20	22	1	21	1278.1319	1278.1319	0.0000	1.0
22	2	20	22	1	21	1278.1320	1278.1319	0.0001	1.0
22	2	20	21	1	21	1287.9115	1287.9111	0.0004	1.0
23	2	21	24	3	22	1260.9975	1260.9980	-0.0005	1.0
23	2	21	23	1	22	1278.1569	1278.1567	0.0002	1.0
23	2	21	23	3	20	1268.0369	1268.0369	0.0000	1.0
23	2	21	23	1	22	1278.1569	1278.1567	0.0002	1.0
23	2	21	22	1	22	1288.5178	1288.5176	0.0002	1.0
24	2	22	25	3	23	1260.8158	1260.8157	0.0001	1.0
24	2	22	24	1	23	1278.1945	1278.1944	0.0001	1.0
24	2	22	24	3	21	1268.1241	1268.1240	0.0001	1.0
24	2	22	24	1	23	1278.1945	1278.1944	0.0001	1.0
24	2	22	23	1	23	1289.1454	1289.1455	-0.0001	1.0
25	2	23	26	3	24	1260.6425	1260.6423	0.0002	1.0
25	2	23	25	1	24	1278.2460	1278.2457	0.0003	1.0
25	2	23	25	3	22	1268.2138	1268.2140	-0.0002	1.0
25	2	23	24	1	24	1289.7942	1289.7946	-0.0004	1.0
26	2	24	27	3	25	1260.4776	1260.4776	0.0000	1.0
26	2	24	26	1	25	1278.3113	1278.3112	0.0001	1.0
27	2	25	28	3	26	1260.3213	1260.3212	0.0001	1.0

27	2	25	27	1	26	1278.3920	1278.3916	0.0004	1.0
27	2	25	27	3	24	1268.3971	1268.3977	-0.0006	1.0
28	2	26	29	3	27	1260.1730	1260.1727	0.0003	1.0
28	2	26	28	1	27	1278.4875	1278.4873	0.0002	1.0
28	2	26	28	3	25	1268.4883	1268.4888	-0.0005	1.0
29	2	27	30	3	28	1260.0318	1260.0317	0.0001	1.0
29	2	27	29	1	28	1278.5993	1278.5988	0.0005	1.0
30	2	28	31	3	29	1259.8978	1259.8976	0.0002	1.0
30	2	28	30	3	27	1268.6626	1268.6624	0.0002	1.0
31	2	29	32	3	30	1259.7696	1259.7698	-0.0002	1.0
31	2	29	31	1	30	1278.8708	1278.8707	0.0002	1.0
31	2	29	31	3	28	1268.7411	1268.7419	-0.0008	1.0
31	2	29	30	1	30	1294.1158	1294.1165	-0.0007	1.0
32	2	30	33	3	31	1259.6480	1259.6479	0.0001	1.0
32	2	30	32	1	31	1279.0317	1279.0315	0.0002	1.0
32	2	30	32	3	29	1268.8148	1268.8147	0.0001	1.0
33	2	31	34	3	32	1259.5312	1259.5312	0.0000	1.0
33	2	31	33	1	32	1279.2091	1279.2090	0.0001	1.0
33	2	31	33	3	30	1268.8791	1268.8792	-0.0001	1.0
34	2	32	35	3	33	1259.4192	1259.4190	0.0002	1.0
34	2	32	34	1	33	1279.4033	1279.4032	0.0001	1.0
34	2	32	34	3	31	1268.9342	1268.9340	0.0002	1.0
35	2	33	36	3	34	1259.3107	1259.3108	-0.0001	1.0
35	2	33	35	1	34	1279.6138	1279.6138	0.0000	1.0
35	2	33	35	3	32	1268.9779	1268.9779	0.0000	1.0
36	2	34	37	3	35	1259.2065	1259.2057	0.0008	1.0
36	2	34	36	3	33	1269.0096	1269.0095	0.0001	1.0
37	2	35	38	3	36	1259.1030	1259.1030	0.0000	1.0
37	2	35	37	1	36	1280.0820	1280.0826	-0.0006	1.0
37	2	35	37	3	34	1269.0276	1269.0277	-0.0001	1.0
38	2	36	38	1	37	1280.3397	1280.3395	0.0002	1.0
38	2	36	38	3	35	1269.0311	1269.0313	-0.0002	1.0
39	2	37	39	1	38	1280.6102	1280.6103	-0.0001	1.0
39	2	37	39	3	36	1269.0194	1269.0193	0.0001	1.0
40	2	38	41	3	39	1258.8006	1258.8007	-0.0001	1.0
40	2	38	40	1	39	1280.8938	1280.8938	0.0001	1.0
40	2	38	40	3	37	1268.9906	1268.9906	0.0000	1.0
3	3	1	4	4	0	1263.3555	1263.3559	-0.0004	1.0
4	3	2	5	4	1	1263.0580	1263.0584	-0.0004	1.0
5	3	3	6	4	2	1262.7605	1262.7609	-0.0004	1.0
6	3	4	7	4	3	1262.4628	1262.4632	-0.0004	1.0
7	3	5	8	4	4	1262.1653	1262.1654	-0.0001	1.0
8	3	6	9	4	5	1261.8676	1261.8676	0.0000	1.0
9	3	7	10	4	6	1261.5700	1261.5698	0.0002	1.0
10	3	8	11	4	7	1261.2720	1261.2721	-0.0001	1.0
11	3	9	12	4	8	1260.9748	1260.9743	0.0005	1.0

12	3	10	13	4	9	1260.6760	1260.6766	-0.0006	1.0
13	3	11	14	4	10	1260.3787	1260.3789	-0.0002	1.0
14	3	12	15	4	11	1260.0812	1260.0812	0.0000	1.0
14	3	12	14	2	13	1281.7521	1281.7523	-0.0002	1.0
15	3	13	16	4	12	1259.7830	1259.7836	-0.0006	1.0
15	3	13	15	2	14	1281.7654	1281.7656	-0.0002	1.0
16	3	14	17	4	13	1259.4856	1259.4859	-0.0003	1.0
16	3	14	16	2	15	1281.7818	1281.7819	-0.0001	1.0
16	3	14	15	2	13	1286.2894	1286.2889	0.0005	1.0
17	3	15	17	2	16	1281.8016	1281.8016	0.0000	1.0
18	3	16	18	2	17	1281.8256	1281.8262	-0.0006	1.0
19	3	17	20	4	16	1258.5847	1258.5855	-0.0008	1.0
19	3	17	19	2	18	1281.8440	1281.8449	-0.0009	1.0
19	3	17	18	2	16	1287.0083	1287.0096	-0.0013	1.0
20	3	18	21	4	17	1258.2897	1258.2898	-0.0001	1.0
20	3	18	20	2	19	1281.8784	1281.8789	-0.0005	1.0
20	3	18	19	2	17	1287.2377	1287.2377	0.0000	1.0
21	3	19	22	4	18	1257.9905	1257.9906	-0.0001	1.0
21	3	19	20	2	18	1287.4558	1287.4539	0.0020	0.1
22	3	20	23	4	19	1257.6902	1257.6901	0.0001	1.0
22	3	20	21	2	19	1287.6603	1287.6601	0.0002	1.0
23	3	21	24	4	20	1257.3883	1257.3882	0.0001	1.0
23	3	21	22	2	20	1287.8563	1287.8566	-0.0003	1.0
24	3	22	25	4	21	1257.0845	1257.0847	-0.0002	1.0
24	3	22	23	2	21	1288.0432	1288.0433	-0.0001	1.0
25	3	23	26	4	22	1256.7791	1256.7791	0.0000	1.0
25	3	23	24	2	22	1288.2203	1288.2204	-0.0001	1.0
25	3	23	24	3	22	1281.9538	1281.9535	0.0003	1.0
25	3	23	26	3	24	1266.7785	1266.7785	0.0000	1.0
26	3	24	27	4	23	1256.4707	1256.4711	-0.0004	1.0
26	3	24	26	4	23	1264.5207	1264.5206	0.0001	1.0
26	3	24	25	2	23	1288.3874	1288.3878	-0.0004	1.0
26	3	24	26	2	25	1282.1656	1282.1661	-0.0005	1.0
26	3	24	25	3	23	1282.2463	1282.2463	0.0000	1.0
26	3	24	27	3	25	1266.4764	1266.4764	0.0000	1.0
27	3	25	28	4	24	1256.1608	1256.1598	0.0010	1.0
27	3	25	27	4	24	1264.5122	1264.5125	-0.0003	1.0
27	3	25	26	2	24	1288.5460	1288.5457	0.0003	1.0
27	3	25	27	2	26	1282.2324	1282.2324	0.0000	1.0
27	3	25	26	3	24	1282.5382	1282.5381	0.0001	1.0
27	3	25	28	3	26	1266.1737	1266.1736	0.0001	1.0
28	3	26	29	4	25	1255.8445	1255.8445	0.0001	1.0
28	3	26	28	4	25	1264.5015	1264.5017	-0.0002	1.0
28	3	26	27	2	25	1288.6940	1288.6941	-0.0001	1.0
28	3	26	27	3	25	1282.8286	1282.8286	0.0000	1.0
28	3	26	29	3	27	1265.8698	1265.8699	-0.0001	1.0

29	3	27	30	4	26	1255.5238	1255.5238	0.0000	1.0
29	3	27	29	4	26	1264.4868	1264.4870	-0.0002	1.0
29	3	27	28	2	26	1288.8326	1288.8324	0.0002	1.0
29	3	27	29	2	28	1282.3803	1282.3804	-0.0001	1.0
29	3	27	28	3	26	1283.1169	1283.1169	0.0000	1.0
29	3	27	30	3	28	1265.5636	1265.5644	-0.0008	1.0
30	3	28	31	4	27	1255.1957	1255.1957	0.0000	1.0
30	3	28	30	4	27	1264.4665	1264.4667	-0.0002	1.0
30	3	28	29	2	27	1288.9599	1288.9598	0.0001	1.0
30	3	28	30	2	29	1282.4613	1282.4603	0.0010	1.0
30	3	28	29	3	27	1283.4013	1283.4015	-0.0002	1.0
30	3	28	31	3	29	1265.2557	1265.2557	0.0000	1.0
31	3	29	32	4	28	1254.8547	1254.8561	-0.0014	0.1
31	3	29	31	4	28	1264.4374	1264.4370	0.0005	1.0
31	3	29	30	2	28	1289.0732	1289.0731	0.0001	1.0
31	3	29	31	2	30	1282.5396	1282.5402	-0.0006	1.0
31	3	29	30	3	28	1283.6794	1283.6790	0.0004	1.0
31	3	29	32	3	30	1264.9412	1264.9404	0.0008	1.0
32	3	30	33	4	29	1254.4962	1254.4964	-0.0002	1.0
32	3	30	32	4	29	1264.3899	1264.3897	0.0002	1.0
32	3	30	31	2	29	1289.1656	1289.1652	0.0004	1.0
32	3	30	32	2	31	1282.6129	1282.6125	0.0004	1.0
32	3	30	31	3	29	1283.9406	1283.9414	-0.0008	1.0
32	3	30	33	3	31	1264.6107	1264.6106	0.0001	1.0
34	3	32	35	4	31	1253.9560	1253.9566	-0.0006	1.0
34	3	32	34	4	31	1264.4840	1264.4842	-0.0002	1.0
34	3	32	33	2	31	1289.5299	1289.5305	-0.0006	1.0
34	3	32	34	2	33	1282.9777	1282.9776	0.0001	1.0
34	3	32	33	3	31	1284.6631	1284.6639	-0.0008	1.0
35	3	33	36	4	32	1253.5881	1253.5883	-0.0002	1.0
35	3	33	35	4	32	1264.4396	1264.4389	0.0007	1.0
35	3	33	34	2	32	1289.6180	1289.6186	-0.0006	1.0
35	3	33	35	2	34	1283.0833	1283.0841	-0.0008	1.0
35	3	33	34	3	32	1284.9384	1284.9376	0.0008	1.0
35	3	33	36	3	34	1263.8344	1263.8342	0.0002	1.0
36	3	34	36	4	33	1264.3969	1264.3967	0.0002	1.0
36	3	34	35	2	33	1289.7096	1289.7097	-0.0001	1.0
36	3	34	36	2	35	1283.2052	1283.2052	0.0000	1.0
36	3	34	35	3	33	1285.2182	1285.2182	0.0001	1.0
36	3	34	37	3	35	1263.5258	1263.5253	0.0005	1.0
37	3	35	38	4	34	1252.8429	1252.8426	0.0004	1.0
37	3	35	37	4	34	1264.3535	1264.3534	0.0001	1.0
37	3	35	36	2	34	1289.8008	1289.8007	0.0001	1.0
37	3	35	37	2	36	1283.3376	1283.3371	0.0005	1.0
37	3	35	36	3	34	1285.5019	1285.5017	0.0002	1.0
37	3	35	38	3	36	1263.2205	1263.2202	0.0003	1.0

38	3	36	39	4	35	1252.4579	1252.4573	0.0006	1.0
38	3	36	38	4	35	1264.3072	1264.3070	0.0002	1.0
38	3	36	37	2	35	1289.8907	1289.8905	0.0002	1.0
38	3	36	38	2	37	1283.4774	1283.4779	-0.0005	1.0
38	3	36	37	3	35	1285.7882	1285.7865	0.0018	0.1
38	3	36	39	3	37	1262.9182	1262.9171	0.0012	1.0
39	3	37	40	4	36	1252.0615	1252.0608	0.0007	1.0
39	3	37	39	4	36	1264.2558	1264.2561	-0.0003	1.0
39	3	37	38	2	36	1289.9797	1289.9788	0.0009	1.0
39	3	37	39	2	38	1283.6269	1283.6266	0.0003	1.0
39	3	37	40	3	38	1262.6153	1262.6150	0.0003	1.0
40	3	38	41	4	37	1251.6513	1251.6513	0.0000	1.0
40	3	38	40	4	37	1264.1999	1264.1998	0.0001	1.0
40	3	38	39	2	37	1290.0663	1290.0659	0.0004	1.0
40	3	38	40	2	39	1283.7832	1283.7826	0.0006	1.0
40	3	38	39	3	37	1286.3561	1286.3560	0.0001	1.0
40	3	38	41	3	39	1262.3132	1262.3134	-0.0002	1.0
41	3	39	42	4	38	1251.2265	1251.2273	-0.0008	1.0
41	3	39	41	4	38	1264.1375	1264.1374	0.0002	1.0
41	3	39	40	2	38	1290.1518	1290.1520	-0.0002	1.0
41	3	39	41	2	40	1283.9451	1283.9452	-0.0001	1.0
41	3	39	40	3	38	1286.6394	1286.6397	-0.0003	1.0
41	3	39	42	3	40	1262.0109	1262.0117	-0.0008	1.0
3	3	0	4	4	1	1263.3555	1263.3559	-0.0004	1.0
4	3	1	5	4	2	1263.0580	1263.0585	-0.0005	1.0
5	3	2	6	4	3	1262.7605	1262.7609	-0.0004	1.0
6	3	3	7	4	4	1262.4628	1262.4632	-0.0004	1.0
7	3	4	8	4	5	1262.1653	1262.1655	-0.0002	1.0
8	3	5	9	4	6	1261.8676	1261.8679	-0.0003	1.0
9	3	6	10	4	7	1261.5700	1261.5703	-0.0003	1.0
10	3	7	11	4	8	1261.2720	1261.2729	-0.0009	1.0
11	3	8	12	4	9	1260.9748	1260.9758	-0.0010	1.0
12	3	9	13	4	10	1260.6786	1260.6791	-0.0005	1.0
12	3	9	12	2	10	1281.6355	1281.6358	-0.0003	1.0
13	3	10	14	4	11	1260.3827	1260.3828	-0.0001	1.0
13	3	10	13	2	11	1281.6100	1281.6101	-0.0001	1.0
14	3	11	15	4	12	1260.0872	1260.0873	-0.0001	1.0
14	3	11	14	2	12	1281.5788	1281.5791	-0.0003	1.0
15	3	12	16	4	13	1259.7923	1259.7927	-0.0004	1.0
16	3	13	17	4	14	1259.4990	1259.4992	-0.0002	1.0
16	3	13	15	2	14	1286.5343	1286.5344	-0.0001	1.0
19	3	16	20	4	17	1258.6278	1258.6283	-0.0005	1.0
19	3	16	18	2	17	1287.5087	1287.5088	-0.0001	1.0
20	3	17	21	4	18	1258.3422	1258.3423	-0.0001	1.0
20	3	17	19	2	18	1287.8455	1287.8457	-0.0002	1.0
21	3	18	22	4	19	1258.0589	1258.0592	-0.0003	1.0

21	3	18	20	2	19	1288.1901	1288.1900	0.0001	1.0
22	3	19	23	4	20	1257.7791	1257.7794	-0.0003	1.0
22	3	19	21	2	20	1288.5426	1288.5427	-0.0001	1.0
23	3	20	24	4	21	1257.5032	1257.5035	-0.0003	1.0
23	3	20	22	2	21	1288.9044	1288.9047	-0.0003	1.0
24	3	21	25	4	22	1257.2319	1257.2320	-0.0001	1.0
24	3	21	23	2	22	1289.2763	1289.2771	-0.0008	1.0
26	3	23	27	4	24	1256.7046	1256.7048	-0.0002	1.0
26	3	23	26	2	24	1280.7379	1280.7380	-0.0001	1.0
26	3	23	25	2	24	1290.0568	1290.0571	-0.0003	1.0
27	3	24	27	2	25	1280.6428	1280.6428	0.0000	1.0
29	3	26	30	4	27	1255.9633	1255.9633	0.0000	1.0
29	3	26	28	2	27	1291.3322	1291.3323	-0.0001	1.0
30	3	27	31	4	28	1255.7318	1255.7319	-0.0001	1.0
30	3	27	29	2	28	1291.7901	1291.7900	0.0001	1.0
31	3	28	32	4	29	1255.5098	1255.5096	0.0002	1.0
31	3	28	31	4	27	1265.0012	1265.0012	0.0000	1.0
31	3	28	30	2	29	1292.2658	1292.2658	0.0000	1.0
31	3	28	30	3	27	1283.8263	1283.8261	0.0003	1.0
31	3	28	32	3	29	1264.8970	1264.8973	-0.0003	1.0
32	3	29	33	4	30	1255.2967	1255.2968	-0.0001	1.0
32	3	29	32	4	28	1265.0765	1265.0766	-0.0001	1.0
32	3	29	32	2	30	1280.2090	1280.2087	0.0003	1.0
32	3	29	31	3	28	1284.1331	1284.1330	0.0001	1.0
32	3	29	33	3	30	1264.5863	1264.5866	-0.0003	1.0
33	3	30	34	4	31	1255.0941	1255.0941	0.0000	1.0
33	3	30	33	4	29	1265.1595	1265.1595	0.0000	1.0
33	3	30	33	2	31	1280.1402	1280.1404	-0.0002	1.0
33	3	30	32	3	29	1284.4410	1284.4405	0.0005	1.0
34	3	31	35	4	32	1254.9017	1254.9018	-0.0001	1.0
34	3	31	34	4	30	1265.2499	1265.2499	0.0000	1.0
34	3	31	34	2	32	1280.0820	1280.0815	0.0005	1.0
34	3	31	33	2	32	1293.8120	1293.8114	0.0006	1.0
34	3	31	33	3	30	1284.7484	1284.7485	-0.0001	1.0
34	3	31	35	3	32	1263.9651	1263.9642	0.0009	1.0
35	3	32	35	2	33	1280.0325	1280.0334	-0.0009	1.0
35	3	32	34	2	33	1294.3681	1294.3687	-0.0006	1.0
35	3	32	34	3	31	1285.0570	1285.0568	0.0002	1.0
35	3	32	36	3	33	1263.6528	1263.6528	0.0000	1.0
36	3	33	37	4	34	1254.5498	1254.5498	0.0000	1.0
36	3	33	36	4	32	1265.4519	1265.4522	-0.0003	1.0
36	3	33	36	2	34	1279.9971	1279.9971	0.0000	1.0
36	3	33	35	3	32	1285.3652	1285.3652	0.0000	1.0
36	3	33	37	3	34	1263.3413	1263.3413	0.0000	1.0
37	3	34	38	4	35	1254.3905	1254.3904	0.0001	1.0
37	3	34	37	4	33	1265.5636	1265.5632	0.0004	1.0

37	3	34	37	2	35	1279.9737	1279.9739	-0.0002	1.0
37	3	34	36	2	35	1295.5497	1295.5498	-0.0001	1.0
37	3	34	36	3	33	1285.6736	1285.6737	-0.0001	1.0
37	3	34	38	3	35	1263.0300	1263.0300	0.0001	1.0
38	3	35	39	4	36	1254.2422	1254.2420	0.0002	1.0
38	3	35	38	4	34	1265.6795	1265.6797	-0.0002	1.0
38	3	35	38	2	36	1279.9640	1279.9647	-0.0007	1.0
38	3	35	37	3	34	1285.9821	1285.9821	0.0001	1.0
38	3	35	39	3	36	1262.7187	1262.7188	-0.0001	1.0
39	3	36	40	4	37	1254.1043	1254.1044	-0.0001	1.0
39	3	36	39	4	35	1265.8008	1265.8009	-0.0001	1.0
39	3	36	39	2	37	1279.9705	1279.9705	0.0000	1.0
39	3	36	38	2	37	1296.8216	1296.8215	0.0001	1.0
39	3	36	40	3	37	1262.4079	1262.4079	0.0000	1.0
40	3	37	41	4	38	1253.9776	1253.9775	0.0001	1.0
40	3	37	40	4	36	1265.9258	1265.9256	0.0002	1.0
40	3	37	40	2	38	1279.9922	1279.9921	0.0001	1.0
40	3	37	39	3	36	1286.5978	1286.5977	0.0001	1.0
40	3	37	41	3	38	1262.0974	1262.0974	0.0000	1.0
4	4	0	5	5	0	1260.2247	1260.2250	-0.0003	1.0
5	4	0	6	5	0	1259.9277	1259.9279	-0.0002	1.0
5	4	0	4	3	0	1286.0851	1286.0853	-0.0002	1.0
6	4	0	7	5	0	1259.6308	1259.6309	-0.0001	1.0
6	4	0	5	3	0	1286.3821	1286.3822	-0.0001	1.0
7	4	0	8	5	0	1259.3337	1259.3339	-0.0002	1.0
7	4	0	6	3	0	1286.6783	1286.6791	-0.0008	1.0
8	4	0	9	5	0	1259.0369	1259.0370	-0.0001	1.0
8	4	0	7	3	0	1286.9758	1286.9760	-0.0002	1.0
9	4	0	10	5	0	1258.7401	1258.7402	-0.0001	1.0
10	4	0	11	5	0	1258.4432	1258.4435	-0.0003	1.0
10	4	0	9	3	0	1287.5695	1287.5694	0.0001	1.0
11	4	8	12	5	7	1258.1468	1258.1469	-0.0001	1.0
11	4	8	10	3	7	1287.8659	1287.8655	0.0004	1.0
12	4	9	13	5	8	1257.8506	1257.8506	0.0000	1.0
12	4	9	11	3	8	1288.1624	1288.1616	0.0008	1.0
13	4	10	14	5	9	1257.5548	1257.5546	0.0002	1.0
13	4	10	12	3	9	1288.4571	1288.4573	-0.0002	1.0
14	4	11	15	5	10	1257.2593	1257.2589	0.0004	1.0
14	4	11	13	3	10	1288.7523	1288.7525	-0.0002	1.0
15	4	12	16	5	11	1256.9646	1256.9635	0.0011	1.0
15	4	12	14	3	11	1289.0470	1289.0471	-0.0001	1.0
16	4	13	17	5	12	1256.6694	1256.6687	0.0007	0.1
17	4	14	18	5	13	1256.3743	1256.3743	0.0000	1.0
17	4	14	16	3	13	1289.6336	1289.6340	-0.0004	1.0
18	4	15	17	3	14	1289.9264	1289.9257	0.0007	1.0
18	4	15	17	4	14	1279.9425	1279.9420	0.0005	1.0

18	4	15	19	4	16	1268.9421	1268.9418	0.0003	1.0
19	4	16	20	5	15	1255.7874	1255.7873	0.0001	1.0
19	4	16	18	4	15	1280.2417	1280.2417	0.0000	1.0
19	4	16	20	4	17	1268.6459	1268.6455	0.0004	1.0
20	4	17	21	5	16	1255.4947	1255.4947	0.0000	1.0
20	4	17	19	3	16	1290.5049	1290.5046	0.0003	1.0
20	4	17	21	4	18	1268.3487	1268.3494	-0.0007	1.0
21	4	18	22	5	17	1255.2029	1255.2027	0.0002	1.0
21	4	18	20	3	17	1290.7910	1290.7909	0.0001	1.0
21	4	18	20	4	17	1280.8418	1280.8422	-0.0004	1.0
21	4	18	22	4	19	1268.0537	1268.0534	0.0003	1.0
22	4	19	23	5	18	1254.9113	1254.9112	0.0001	1.0
22	4	19	21	3	18	1291.0748	1291.0744	0.0004	1.0
22	4	19	21	4	18	1281.1428	1281.1428	0.0000	1.0
22	4	19	23	4	20	1267.7573	1267.7574	-0.0001	1.0
22	3	20	23	5	18	1254.8196	1254.8196	0.0001	1.0*
22	3	20	21	3	18	1290.9823	1290.9828	-0.0005	1.0*
23	4	20	24	5	19	1254.6206	1254.6202	0.0004	1.0
23	4	20	22	3	19	1291.3550	1291.3547	0.0003	1.0
23	4	20	22	4	19	1281.4440	1281.4436	0.0004	1.0
23	4	20	24	4	21	1267.4612	1267.4614	-0.0002	1.0
23	3	21	24	5	19	1254.5255	1254.5254	0.0001	1.0*
23	3	21	22	3	19	1291.2590	1291.2599	-0.0009	0.1*
24	4	21	25	5	20	1254.3298	1254.3296	0.0002	1.0
24	4	21	24	5	20	1261.7632	1261.7630	0.0002	1.0
24	4	21	23	3	20	1291.6313	1291.6310	0.0003	1.0
24	3	22	25	5	20	1254.2310	1254.2312	-0.0002	1.0*
24	3	22	23	3	20	1291.5327	1291.5326	0.0001	1.0*
25	4	22	24	4	21	1282.0445	1282.0450	-0.0005	1.0
25	4	22	26	4	23	1266.8681	1266.8687	-0.0006	1.0
25	3	23	26	5	21	1253.9363	1253.9368	-0.0005	1.0*
25	3	23	24	3	21	1291.8003	1291.8004	-0.0001	1.0*
26	4	23	27	5	22	1253.7486	1253.7487	-0.0001	1.0
26	4	23	26	5	22	1261.7776	1261.7786	-0.0010	1.0
26	4	23	25	3	22	1292.1701	1292.1689	0.0012	0.1
26	4	23	25	4	22	1282.3455	1282.3453	0.0002	1.0
26	4	23	27	4	24	1266.5716	1266.5717	-0.0001	1.0
26	3	24	27	5	22	1253.6412	1253.6422	-0.0010	0.1*
26	3	24	25	3	22	1292.0623	1292.0624	-0.0001	1.0*
27	4	24	28	5	23	1253.4584	1253.4581	0.0003	1.0
27	4	24	27	5	23	1261.7871	1261.7864	0.0007	1.0
27	4	24	26	3	23	1292.4290	1292.4289	0.0001	1.0
27	4	24	26	4	23	1282.6457	1282.6451	0.0006	1.0
27	3	25	28	5	23	1253.3465	1253.3473	-0.0008	1.0*
27	3	25	26	3	23	1292.3183	1292.3181	0.0002	1.0*
28	4	25	29	5	24	1253.1667	1253.1672	-0.0005	1.0

28	4	25	27	3	24	1292.6817	1292.6818	-0.0001	1.0
28	4	25	28	3	26	1284.6053	1284.6054	-0.0001	1.0
28	4	25	27	4	24	1282.9448	1282.9443	0.0005	1.0
28	4	25	29	4	26	1265.9743	1265.9755	-0.0012	0.1
28	3	26	29	5	24	1253.0521	1253.0520	0.0001	1.0*
28	3	26	27	3	24	1292.5663	1292.5666	-0.0003	1.0*
29	4	26	30	5	25	1252.8757	1252.8757	0.0000	0.1
29	3	27	30	5	25	1252.7559	1252.7560	-0.0001	0.1*
30	4	27	31	5	26	1252.5832	1252.5835	-0.0003	1.0
11	4	7	12	5	8	1258.1468	1258.1470	-0.0002	1.0
11	4	7	10	3	8	1287.8659	1287.8664	-0.0005	1.0
12	4	8	13	5	9	1257.8506	1257.8508	-0.0002	1.0
12	4	8	11	3	9	1288.1624	1288.1631	-0.0007	1.0
13	4	9	14	5	10	1257.5548	1257.5550	-0.0002	1.0
13	4	9	12	3	10	1288.4597	1288.4600	-0.0003	1.0
14	4	10	15	5	11	1257.2593	1257.2596	-0.0003	1.0
14	4	10	13	3	11	1288.7569	1288.7569	0.0000	1.0
15	4	11	16	5	12	1256.9646	1256.9650	-0.0004	1.0
15	4	11	14	3	12	1289.0542	1289.0542	0.0000	1.0
16	4	12	17	5	13	1256.6700	1256.6712	-0.0012	1.0
16	4	12	16	3	13	1284.5823	1284.5820	0.0003	1.0
17	4	13	18	5	14	1256.3784	1256.3787	-0.0003	1.0
17	4	13	16	3	14	1289.6507	1289.6508	-0.0001	1.0
17	4	13	17	3	14	1284.5776	1284.5775	0.0001	1.0
17	3	14	18	5	14	1256.3026	1256.3030	-0.0004	1.0*
17	3	14	16	3	14	1289.5748	1289.5751	-0.0003	1.0*
18	4	14	17	3	15	1289.9513	1289.9509	0.0004	1.0
18	4	14	18	3	15	1284.5728	1284.5728	0.0000	1.0
18	4	14	17	4	13	1279.9508	1279.9492	0.0016	0.1
18	4	14	19	4	15	1268.9481	1268.9485	-0.0004	1.0
18	3	15	19	5	15	1256.0126	1256.0129	-0.0003	1.0*
18	3	15	17	3	15	1289.8755	1289.8758	-0.0003	1.0*
19	4	15	20	5	16	1255.7999	1255.7998	0.0001	1.0
19	4	15	18	3	16	1290.2537	1290.2533	0.0004	1.0
19	4	15	19	3	16	1284.5682	1284.5680	0.0002	1.0
19	4	15	18	4	14	1280.2539	1280.2537	0.0002	1.0
19	4	15	20	4	16	1268.6561	1268.6568	-0.0007	1.0
19	3	16	20	5	16	1255.7236	1255.7232	0.0004	1.0*
19	3	16	18	3	16	1290.1768	1290.1766	0.0002	1.0*
20	4	16	21	5	17	1255.4333	1255.4336	-0.0003	1.0
20	4	16	19	3	17	1290.4773	1290.4773	0.0000	1.0
20	4	16	21	4	17	1268.2866	1268.2864	0.0002	1.0
20	3	17	21	5	17	1255.5153	1255.5149	0.0004	1.0*
20	3	17	19	3	17	1290.5587	1290.5586	0.0001	1.0*
21	4	17	22	5	18	1255.1440	1255.1439	0.0001	1.0
21	4	17	20	3	18	1290.7781	1290.7776	0.0005	1.0

21	4	17	20	4	16	1280.7818	1280.7821	-0.0003	1.0
21	4	17	22	4	18	1267.9927	1267.9919	0.0008	1.0
21	3	18	22	5	18	1255.2357	1255.2341	0.0016	0.1*
21	3	18	20	3	18	1290.8692	1290.8678	0.0014	0.1*
22	4	18	23	5	19	1254.8547	1254.8540	0.0007	1.0
22	4	18	21	3	19	1291.0775	1291.0775	0.0000	1.0
22	4	18	21	4	17	1281.0841	1281.0836	0.0005	1.0
22	4	18	23	4	19	1267.6966	1267.6963	0.0003	1.0
23	4	19	24	5	20	1254.5641	1254.5639	0.0002	1.0
23	4	19	22	3	20	1291.3775	1291.3773	0.0002	1.0
23	4	19	22	4	18	1281.3847	1281.3844	0.0003	1.0
23	4	19	24	4	20	1267.3990	1267.3996	-0.0006	1.0
24	4	20	25	5	21	1254.2740	1254.2739	0.0002	1.0
24	4	20	23	3	21	1291.6774	1291.6772	0.0002	1.0
24	4	20	23	4	19	1281.6850	1281.6846	0.0004	1.0
24	4	20	25	4	21	1267.1022	1267.1020	0.0002	1.0
25	4	21	24	3	22	1291.9779	1291.9778	0.0001	1.0
25	4	21	24	4	20	1281.9846	1281.9844	0.0002	1.0
25	4	21	26	4	22	1266.8032	1266.8035	-0.0003	1.0
26	4	22	27	5	23	1253.6953	1253.6951	0.0002	1.0
26	4	22	25	3	23	1292.2798	1292.2795	0.0003	1.0
26	4	22	25	4	21	1282.2842	1282.2840	0.0002	1.0
26	4	22	27	4	23	1266.5043	1266.5043	0.0000	1.0
27	4	23	26	3	24	1292.5830	1292.5828	0.0002	1.0
27	4	23	26	4	22	1282.5836	1282.5835	0.0002	1.0
27	4	23	28	4	24	1266.2041	1266.2045	-0.0004	1.0
28	4	24	29	5	25	1253.1206	1253.1200	0.0006	1.0
28	4	24	27	3	25	1292.8886	1292.8883	0.0003	1.0
28	4	24	27	4	23	1282.8831	1282.8830	0.0001	1.0
28	4	24	29	4	25	1265.9051	1265.9042	0.0009	1.0
29	4	25	30	5	26	1252.8348	1252.8346	0.0002	1.0
29	4	25	28	4	24	1283.1829	1283.1827	0.0002	1.0
29	4	25	30	4	26	1265.6042	1265.6034	0.0008	1.0
30	4	26	31	5	27	1252.5509	1252.5511	-0.0002	1.0
30	4	26	29	3	27	1293.5081	1293.5081	0.0000	1.0
30	4	26	29	4	25	1283.4830	1283.4827	0.0003	1.0
30	4	26	31	4	27	1265.3026	1265.3023	0.0003	1.0
31	4	27	32	5	28	1252.2697	1252.2697	0.0000	1.0
31	4	27	30	3	28	1293.8238	1293.8238	0.0000	1.0
31	4	27	30	4	26	1283.7832	1283.7832	0.0000	1.0
31	4	27	32	4	28	1265.0012	1265.0009	0.0003	1.0
32	4	28	33	5	29	1251.9905	1251.9910	-0.0005	1.0
32	4	28	31	3	29	1294.1441	1294.1442	-0.0001	1.0
32	4	28	31	4	27	1284.0839	1284.0842	-0.0003	1.0
33	4	29	32	3	30	1294.4702	1294.4703	-0.0001	1.0
33	4	29	34	5	30	1251.7151	1251.7153	-0.0002	1.0

34	4	30	33	3	31	1294.8029	1294.8030	-0.0001	1.0
34	4	30	35	5	31	1251.4446	1251.4433	0.0013	0.1
5	5	0	6	6	0	1257.1010	1257.1010	0.0001	1.0
5	5	0	4	4	0	1288.9765	1288.9767	-0.0002	1.0
6	5	0	7	6	0	1256.8034	1256.8034	0.0001	1.0
6	5	0	5	4	0	1289.2732	1289.2732	0.0000	1.0
7	5	0	8	6	0	1256.5057	1256.5057	0.0000	1.0
7	5	0	6	4	0	1289.5695	1289.5695	0.0000	1.0
8	5	0	9	6	0	1256.2079	1256.2079	0.0000	1.0
8	5	0	7	4	0	1289.8656	1289.8657	-0.0001	1.0
9	5	0	10	6	0	1255.9101	1255.9101	0.0001	1.0
9	5	0	8	4	0	1290.1613	1290.1617	-0.0004	1.0
10	5	0	11	6	0	1255.6121	1255.6122	0.0000	1.0
10	5	0	9	4	0	1290.4576	1290.4576	0.0000	1.0
11	5	0	12	6	0	1255.3142	1255.3142	0.0000	1.0
11	5	0	10	4	0	1290.7533	1290.7534	-0.0001	1.0
12	5	0	13	6	0	1255.0162	1255.0162	0.0000	1.0
12	5	0	11	4	0	1291.0490	1291.0489	0.0001	1.0
13	5	0	14	6	0	1254.7185	1254.7182	0.0003	1.0
13	5	0	12	4	0	1291.3442	1291.3443	-0.0001	1.0
14	5	0	15	6	0	1254.4203	1254.4202	0.0001	1.0
14	5	0	13	4	0	1291.6394	1291.6394	0.0000	1.0
15	5	0	16	6	0	1254.1223	1254.1222	0.0001	1.0
15	5	0	14	4	0	1291.9342	1291.9342	0.0000	1.0
16	5	0	17	6	0	1253.8243	1253.8243	0.0000	1.0
16	5	0	15	4	0	1292.2287	1292.2287	0.0000	1.0
17	5	0	18	6	0	1253.5265	1253.5264	0.0001	1.0
17	5	0	16	4	0	1292.5230	1292.5230	0.0001	1.0
18	5	0	17	4	0	1292.8169	1292.8168	0.0001	1.0
19	5	0	20	6	0	1252.9308	1252.9308	0.0000	1.0
20	5	0	21	6	0	1252.6333	1252.6332	0.0001	1.0
20	5	0	19	4	0	1293.4033	1293.4032	0.0001	1.0
21	5	0	22	6	0	1252.3359	1252.3358	0.0001	1.0
22	5	0	23	6	0	1252.0387	1252.0385	0.0002	1.0
23	5	0	24	6	0	1251.7416	1251.7415	0.0001	1.0
24	5	0	25	6	0	1251.4445	1251.4447	-0.0002	1.0
25	5	0	26	6	0	1251.1483	1251.1482	0.0001	1.0
26	5	0	27	6	0	1250.8522	1250.8519	0.0003	1.0
27	5	0	28	6	0	1250.5561	1250.5561	0.0001	1.0
28	5	0	29	6	0	1250.2606	1250.2606	0.0001	1.0
29	5	0	30	6	0	1249.9659	1249.9654	0.0005	1.0
30	5	0	31	6	0	1249.6711	1249.6713	-0.0001	1.0
30	5	26	29	4	25	1296.2849	1296.2849	0.0000	1.0
31	5	27	30	4	26	1296.5658	1296.5656	0.0003	1.0
32	5	28	31	4	27	1296.8440	1296.8440	0.0000	1.0
33	5	29	32	4	28	1297.1203	1297.1200	0.0003	1.0

34	5	30	35	6	29	1248.4966	1248.4964	0.0003	1.0
34	5	30	33	4	29	1297.3932	1297.3933	-0.0001	1.0
35	5	31	36	6	30	1248.2041	1248.2042	-0.0002	1.0
35	5	31	34	4	30	1297.6632	1297.6634	-0.0002	1.0
36	5	32	37	6	31	1247.9127	1247.9127	0.0000	1.0
36	5	32	35	4	31	1297.9300	1297.9299	0.0001	1.0
37	5	33	36	4	32	1298.1922	1298.1924	-0.0002	1.0
38	5	34	39	6	33	1247.3312	1247.3314	-0.0002	1.0
38	5	34	37	4	33	1298.4505	1298.4505	0.0000	1.0
39	5	35	38	4	34	1298.7033	1298.7035	-0.0002	1.0
40	5	36	39	4	35	1298.9507	1298.9510	-0.0003	1.0
42	5	38	41	4	37	1299.4257	1299.4268	-0.0011	1.0
43	5	39	42	4	38	1299.6526	1299.6538	-0.0012	1.0
30	5	25	29	4	26	1296.3097	1296.3099	-0.0002	1.0
32	5	27	31	4	28	1296.8857	1296.8855	0.0002	1.0
33	5	28	32	4	29	1297.1732	1297.1731	0.0001	1.0
34	5	29	35	6	30	1248.5008	1248.5005	0.0003	1.0
34	5	29	33	4	30	1297.4608	1297.4608	0.0000	1.0
35	5	30	36	6	31	1248.2100	1248.2097	0.0003	1.0
35	5	30	34	4	31	1297.7488	1297.7485	0.0003	1.0
36	5	31	37	6	32	1247.9186	1247.9198	-0.0012	1.0
36	5	31	35	4	32	1298.0355	1298.0365	-0.0010	1.0
38	5	33	39	6	34	1247.3431	1247.3435	-0.0005	1.0
38	5	33	37	4	34	1298.6136	1298.6142	-0.0006	1.0
40	5	35	41	6	36	1246.7721	1246.7723	-0.0002	1.0
40	5	35	39	4	36	1299.1960	1299.1958	0.0002	1.0
41	5	36	40	4	37	1299.4888	1299.4895	-0.0007	1.0
42	5	37	41	4	38	1299.7840	1299.7849	-0.0009	1.0
6	6	0	7	7	0	1253.9849	1253.9849	0.0000	1.0
6	6	0	5	5	0	1292.1701	1292.1702	-0.0001	1.0
7	6	0	8	7	0	1253.6874	1253.6871	0.0003	1.0
7	6	0	6	5	0	1292.4668	1292.4665	0.0003	1.0
8	6	0	9	7	0	1253.3894	1253.3893	0.0001	1.0
8	6	0	7	5	0	1292.7628	1292.7627	0.0001	1.0
9	6	0	10	7	0	1253.0917	1253.0914	0.0003	1.0
10	6	0	11	7	0	1252.7935	1252.7934	0.0001	1.0
10	6	0	9	5	0	1293.3550	1293.3548	0.0002	1.0
11	6	0	12	7	0	1252.4955	1252.4953	0.0002	1.0
11	6	0	10	5	0	1293.6508	1293.6507	0.0002	1.0
12	6	0	13	7	0	1252.1973	1252.1971	0.0002	1.0
12	6	0	11	5	0	1293.9466	1293.9464	0.0002	1.0
13	6	0	14	7	0	1251.8993	1251.8989	0.0003	1.0
13	6	0	12	5	0	1294.2423	1294.2419	0.0004	1.0
14	6	0	15	7	0	1251.6009	1251.6007	0.0003	1.0
14	6	0	13	5	0	1294.5376	1294.5373	0.0003	1.0
15	6	0	16	7	0	1251.3026	1251.3024	0.0002	1.0

15	6	0	14	5	0	1294.8328	1294.8325	0.0003	1.0
16	6	0	17	7	0	1251.0042	1251.0041	0.0002	1.0
16	6	0	15	5	0	1295.1278	1295.1275	0.0003	1.0
17	6	0	18	7	0	1250.7061	1250.7057	0.0004	1.0
17	6	0	16	5	0	1295.4225	1295.4223	0.0002	1.0
18	6	0	17	5	0	1295.7174	1295.7169	0.0005	1.0
19	6	0	20	7	0	1250.1094	1250.1091	0.0003	1.0
20	6	0	21	7	0	1249.8109	1249.8108	0.0001	1.0
20	6	0	19	5	0	1296.3055	1296.3053	0.0002	1.0
20	6	0	20	5	0	1290.3611	1290.3612	-0.0001	1.0
21	6	0	22	7	0	1249.5127	1249.5126	0.0001	1.0
21	6	0	21	5	0	1290.3575	1290.3573	0.0002	1.0
21	6	0	20	5	0	1296.5989	1296.5991	-0.0002	1.0
22	6	0	23	7	0	1249.2146	1249.2145	0.0002	1.0
22	6	0	21	5	0	1296.8927	1296.8926	0.0001	1.0
22	6	0	22	5	0	1290.3530	1290.3531	-0.0001	1.0
23	6	0	24	7	0	1248.9165	1248.9168	-0.0003	1.0
23	6	0	23	5	0	1290.3483	1290.3488	-0.0005	1.0
23	6	0	22	5	0	1297.1857	1297.1861	-0.0004	1.0
24	6	0	25	7	0	1248.6187	1248.6179	0.0008	1.0
24	6	0	24	5	0	1290.3432	1290.3428	0.0005	1.0
24	6	0	23	5	0	1297.4785	1297.4780	0.0005	1.0
25	6	0	26	7	0	1248.3205	1248.3202	0.0003	1.0
25	6	0	25	5	0	1290.3377	1290.3372	0.0005	1.0
25	6	0	24	5	0	1297.7710	1297.7705	0.0005	1.0
26	6	0	27	7	0	1248.0228	1248.0225	0.0004	1.0
26	6	0	26	5	0	1290.3313	1290.3311	0.0002	1.0
26	6	0	25	5	0	1298.0629	1298.0625	0.0005	1.0
27	6	0	28	7	0	1247.7253	1247.7249	0.0004	1.0
27	6	0	27	5	0	1290.3246	1290.3244	0.0002	1.0
27	6	0	26	5	0	1298.3542	1298.3539	0.0003	1.0
28	6	0	29	7	0	1247.4277	1247.4275	0.0002	1.0
28	6	0	28	5	0	1290.3174	1290.3171	0.0003	1.0
28	6	0	27	5	0	1298.6452	1298.6449	0.0003	1.0
29	6	0	30	7	0	1247.1305	1247.1304	0.0001	1.0
29	6	0	29	5	0	1290.3094	1290.3094	0.0000	1.0
30	6	0	31	7	0	1246.8335	1246.8332	0.0003	1.0
30	6	0	30	5	0	1290.3009	1290.3006	0.0003	1.0
30	6	0	29	5	0	1299.2255	1299.2252	0.0003	1.0
31	6	0	32	7	0	1246.5368	1246.5365	0.0003	1.0
31	6	0	30	5	0	1299.5148	1299.5146	0.0002	1.0
32	6	0	33	7	0	1246.2403	1246.2400	0.0003	1.0
32	6	0	31	5	0	1299.8036	1299.8033	0.0004	1.0
33	6	0	34	7	0	1245.9441	1245.9439	0.0003	1.0
34	6	0	35	7	0	1245.6484	1245.6480	0.0003	1.0
35	6	0	36	7	0	1245.3529	1245.3526	0.0003	1.0

36	6	0	37	7	0	1245.0577	1245.0575	0.0002	1.0
37	6	0	38	7	0	1244.7631	1244.7629	0.0002	1.0
38	6	0	39	7	0	1244.4690	1244.4687	0.0003	1.0
39	6	0	40	7	0	1244.1752	1244.1754	-0.0001	1.0
40	6	0	41	7	0	1243.8817	1243.8819	-0.0002	1.0
34	6	29	34	5	30	1290.2610	1290.2607	0.0003	1.0
35	6	30	34	5	29	1300.6635	1300.6632	0.0003	1.0
35	6	30	35	5	31	1290.2490	1290.2488	0.0003	1.0
36	6	31	35	5	30	1300.9484	1300.9483	0.0002	1.0
37	6	32	36	5	31	1301.2322	1301.2323	-0.0001	1.0
38	6	33	37	5	32	1301.5152	1301.5152	0.0000	1.0
34	6	28	34	5	29	1290.2575	1290.2572	0.0003	1.0
35	6	29	34	5	30	1300.6673	1300.6671	0.0002	1.0
35	6	29	35	5	30	1290.2443	1290.2441	0.0002	1.0
36	6	30	35	5	31	1300.9538	1300.9534	0.0004	1.0
37	6	31	36	5	32	1301.2392	1301.2391	0.0001	1.0
7	7	0	8	8	0	1250.8763	1250.8759	0.0004	1.0
7	7	0	6	6	0	1295.3676	1295.3675	0.0001	1.0
8	7	0	9	8	0	1250.5785	1250.5780	0.0005	1.0
8	7	0	7	6	0	1295.6641	1295.6637	0.0004	1.0
9	7	0	10	8	0	1250.2805	1250.2801	0.0004	1.0
10	7	0	11	8	0	1249.9823	1249.9820	0.0003	1.0
10	7	0	9	6	0	1296.2561	1296.2558	0.0003	1.0
10	7	0	11	7	0	1271.4281	1271.4279	0.0003	1.0
11	7	0	12	8	0	1249.6841	1249.6839	0.0002	1.0
11	7	0	10	6	0	1296.5520	1296.5517	0.0003	1.0
11	7	0	12	7	0	1271.1301	1271.1297	0.0004	1.0
12	7	0	13	8	0	1249.3861	1249.3856	0.0005	1.0
12	7	0	11	6	0	1296.8478	1296.8475	0.0004	1.0
13	7	0	14	8	0	1249.0876	1249.0873	0.0003	1.0
13	7	0	12	6	0	1297.1434	1297.1431	0.0003	1.0
14	7	0	15	8	0	1248.7892	1248.7889	0.0003	1.0
14	7	0	13	6	0	1297.4389	1297.4386	0.0003	1.0
15	7	0	16	8	0	1248.4909	1248.4905	0.0004	1.0
15	7	0	14	6	0	1297.7343	1297.7340	0.0003	1.0
16	7	0	17	8	0	1248.1923	1248.1920	0.0003	1.0
16	7	0	15	6	0	1298.0294	1298.0292	0.0002	1.0
17	7	0	18	8	0	1247.8938	1247.8934	0.0004	1.0
17	7	0	16	6	0	1298.3245	1298.3242	0.0003	1.0
17	7	0	16	7	0	1279.7352	1279.7350	0.0002	1.0
18	7	0	17	6	0	1298.6195	1298.6191	0.0004	1.0
19	7	0	20	8	0	1247.2965	1247.2962	0.0003	1.0
20	7	0	21	8	0	1246.9978	1246.9975	0.0003	1.0
20	7	0	19	6	0	1299.2085	1299.2083	0.0002	1.0
21	7	0	22	8	0	1246.6990	1246.6989	0.0001	1.0
21	7	0	20	6	0	1299.5029	1299.5026	0.0004	1.0

22	7	0	23	8	0	1246.4004	1246.4002	0.0002	1.0
22	7	0	21	6	0	1299.7967	1299.7966	0.0001	1.0
23	7	0	24	8	0	1246.1018	1246.1015	0.0003	1.0
23	7	0	22	6	0	1300.0908	1300.0904	0.0004	1.0
24	7	0	25	8	0	1245.8032	1245.8029	0.0003	1.0
24	7	0	24	6	0	1293.2519	1293.2517	0.0002	1.0
25	7	0	26	8	0	1245.5045	1245.5043	0.0002	1.0
25	7	0	24	6	0	1300.6774	1300.6773	0.0001	1.0
25	7	0	25	6	0	1293.2474	1293.2474	0.0000	1.0
26	7	0	27	8	0	1245.2060	1245.2058	0.0003	1.0
26	7	0	25	6	0	1300.9705	1300.9704	0.0002	1.0
26	7	0	26	6	0	1293.2429	1293.2427	0.0002	1.0
27	7	0	28	8	0	1244.9074	1244.9073	0.0001	1.0
27	7	0	26	6	0	1301.2632	1301.2631	0.0001	1.0
27	7	0	27	6	0	1293.2378	1293.2378	0.0000	1.0
28	7	0	29	8	0	1244.6091	1244.6088	0.0003	1.0
28	7	0	27	6	0	1301.5556	1301.5555	0.0001	1.0
28	7	0	28	6	0	1293.2326	1293.2324	0.0002	1.0
29	7	0	30	8	0	1244.3107	1244.3105	0.0002	1.0
29	7	0	29	6	0	1293.2267	1293.2267	0.0000	1.0
29	7	0	28	6	0	1301.8476	1301.8476	0.0000	1.0
30	7	0	31	8	0	1244.0125	1244.0123	0.0002	1.0
30	7	0	30	6	0	1293.2206	1293.2205	0.0001	1.0
30	7	0	29	6	0	1302.1395	1302.1393	0.0002	1.0
31	7	0	32	8	0	1243.7144	1243.7142	0.0002	1.0
31	7	0	31	6	0	1293.2141	1293.2139	0.0002	1.0
31	7	0	30	6	0	1302.4307	1302.4306	0.0001	1.0
32	7	0	33	8	0	1243.4164	1243.4163	0.0001	1.0
32	7	0	32	6	0	1293.2070	1293.2068	0.0002	1.0
32	7	0	31	6	0	1302.7216	1302.7216	0.0000	1.0
33	7	0	34	8	0	1243.1185	1243.1185	0.0000	1.0
33	7	0	33	6	0	1293.1993	1293.1993	0.0000	1.0
33	7	0	32	6	0	1303.0123	1303.0121	0.0002	1.0
34	7	0	35	8	0	1242.8206	1242.8209	-0.0003	1.0
34	7	0	33	6	0	1303.3023	1303.3022	0.0001	1.0
34	7	0	34	6	0	1293.1912	1293.1912	0.0000	1.0
35	7	0	36	8	0	1242.5236	1242.5235	0.0001	1.0
35	7	0	35	6	0	1293.1826	1293.1826	0.0000	1.0
35	7	0	34	6	0	1303.5920	1303.5918	0.0002	1.0
36	7	0	37	8	0	1242.2262	1242.2263	-0.0001	1.0
36	7	0	35	6	0	1303.8810	1303.8810	0.0000	1.0
36	7	0	36	6	0	1293.1734	1293.1735	-0.0001	1.0
37	7	0	38	8	0	1241.9293	1241.9294	0.0000	1.0
37	7	0	37	6	0	1293.1636	1293.1637	-0.0001	1.0
38	7	0	39	8	0	1241.6328	1241.6327	0.0001	1.0
38	7	0	37	6	0	1304.4577	1304.4577	0.0000	1.0

38	7	0	38	6	0	1293.1534	1293.1534	0.0000	1.0
39	7	0	40	8	0	1241.3361	1241.3363	-0.0002	1.0
39	7	0	39	6	0	1293.1422	1293.1424	-0.0002	1.0
40	7	0	41	8	0	1241.0400	1241.0403	-0.0003	1.0
40	7	0	40	6	0	1293.1306	1293.1308	-0.0002	1.0
40	7	0	39	6	0	1305.0321	1305.0322	-0.0001	1.0
41	7	0	42	8	0	1240.7442	1240.7446	-0.0004	1.0
41	7	0	40	6	0	1305.3185	1305.3186	-0.0001	1.0
41	7	0	41	6	0	1293.1184	1293.1184	0.0000	1.0
42	7	0	43	8	0	1240.4485	1240.4493	-0.0008	1.0
42	7	0	42	6	0	1293.1046	1293.1054	-0.0008	1.0
43	7	0	44	8	0	1240.1536	1240.1544	-0.0008	1.0
8	8	0	9	9	0	1247.7732	1247.7732	0.0001	1.0
8	8	0	7	7	0	1298.5671	1298.5669	0.0002	1.0
9	8	0	10	9	0	1247.4750	1247.4751	-0.0001	1.0
10	8	0	11	9	0	1247.1769	1247.1770	-0.0001	1.0
10	8	0	9	7	0	1299.1590	1299.1591	-0.0001	1.0
11	8	0	12	9	0	1246.8786	1246.8788	-0.0002	1.0
11	8	0	10	7	0	1299.4547	1299.4550	-0.0003	1.0
12	8	0	13	9	0	1246.5801	1246.5805	-0.0004	1.0
12	8	0	11	7	0	1299.7504	1299.7507	-0.0003	1.0
13	8	0	14	9	0	1246.2817	1246.2821	-0.0004	1.0
13	8	0	12	7	0	1300.0460	1300.0464	-0.0004	1.0
14	8	0	15	9	0	1245.9832	1245.9836	-0.0004	1.0
14	8	0	13	7	0	1300.3414	1300.3419	-0.0005	1.0
15	8	0	16	9	0	1245.6845	1245.6850	-0.0005	1.0
15	8	0	14	7	0	1300.6367	1300.6373	-0.0006	1.0
16	8	0	17	9	0	1245.3855	1245.3863	-0.0008	1.0
16	8	0	15	7	0	1300.9316	1300.9325	-0.0009	1.0
17	8	0	18	9	0	1245.0868	1245.0875	-0.0007	1.0
17	8	0	16	7	0	1301.2268	1301.2276	-0.0008	1.0
18	8	0	19	9	0	1244.7878	1244.7887	-0.0009	1.0
18	8	0	17	7	0	1301.5218	1301.5226	-0.0008	1.0
19	8	0	20	9	0	1244.4888	1244.4898	-0.0010	1.0
19	8	0	18	7	0	1301.8165	1301.8174	-0.0009	1.0
20	8	0	21	9	0	1244.1900	1244.1908	-0.0008	1.0
20	8	0	19	7	0	1302.1111	1302.1120	-0.0009	1.0
21	8	0	22	9	0	1243.8908	1243.8918	-0.0010	1.0
21	8	0	20	7	0	1302.4054	1302.4064	-0.0010	1.0
22	8	0	23	9	0	1243.5914	1243.5927	-0.0013	1.0
22	8	0	21	7	0	1302.6997	1302.7007	-0.0010	1.0
23	8	0	24	9	0	1243.2927	1243.2936	-0.0009	1.0
23	8	0	22	7	0	1302.9937	1302.9947	-0.0010	1.0
24	8	0	25	9	0	1242.9935	1242.9944	-0.0009	1.0
24	8	0	23	7	0	1303.2875	1303.2885	-0.0010	1.0
25	8	0	26	9	0	1242.6943	1242.6953	-0.0010	1.0

25	8	0	24	7	0	1303.5811	1303.5822	-0.0011	1.0
26	8	0	27	9	0	1242.3952	1242.3961	-0.0009	1.0
26	8	0	25	7	0	1303.8747	1303.8755	-0.0008	1.0
27	8	0	28	9	0	1242.0962	1242.0969	-0.0007	1.0
28	8	0	29	9	0	1241.7969	1241.7977	-0.0008	1.0
28	8	0	27	7	0	1304.4608	1304.4616	-0.0008	1.0
29	8	0	30	9	0	1241.4979	1241.4986	-0.0007	1.0
30	8	0	31	9	0	1241.1988	1241.1995	-0.0007	1.0
30	8	0	29	7	0	1305.0461	1305.0467	-0.0006	1.0
31	8	0	32	9	0	1240.9000	1240.9004	-0.0004	1.0
31	8	0	30	7	0	1305.3382	1305.3388	-0.0006	1.0
32	8	0	33	9	0	1240.6009	1240.6014	-0.0005	1.0
32	8	0	31	7	0	1305.6302	1305.6306	-0.0004	1.0
33	8	0	34	9	0	1240.3021	1240.3024	-0.0003	1.0
33	8	0	32	7	0	1305.9219	1305.9222	-0.0003	1.0
34	8	0	35	9	0	1240.0033	1240.0036	-0.0003	1.0
34	8	0	33	7	0	1306.2131	1306.2134	-0.0003	1.0
35	8	0	36	9	0	1239.7046	1239.7048	-0.0002	1.0
35	8	0	34	7	0	1306.5044	1306.5042	0.0002	1.0
36	8	0	37	9	0	1239.4060	1239.4061	-0.0001	1.0
36	8	0	35	7	0	1306.7948	1306.7947	0.0001	1.0
37	8	0	36	7	0	1307.0850	1307.0850	0.0001	1.0
38	8	0	39	9	0	1238.8094	1238.8092	0.0002	1.0
38	8	0	37	7	0	1307.3750	1307.3748	0.0002	1.0
39	8	0	40	9	0	1238.5115	1238.5110	0.0005	1.0
40	8	0	41	9	0	1238.2133	1238.2130	0.0003	1.0
41	8	0	42	9	0	1237.9157	1237.9151	0.0006	1.0
41	8	0	40	7	0	1308.2425	1308.2418	0.0007	1.0
42	8	0	43	9	0	1237.6180	1237.6175	0.0005	1.0
42	8	0	41	7	0	1308.5305	1308.5300	0.0005	1.0
43	8	0	44	9	0	1237.3206	1237.3201	0.0005	1.0
43	8	0	42	7	0	1308.8183	1308.8177	0.0006	1.0
44	8	0	43	7	0	1309.1056	1309.1050	0.0006	1.0
46	8	0	45	7	0	1309.6788	1309.6780	0.0008	1.0
9	9	0	10	10	0	1244.6750	1244.6745	0.0005	1.0
9	9	0	8	8	0	1301.7665	1301.7660	0.0005	1.0
10	9	0	11	10	0	1244.3767	1244.3763	0.0004	1.0
10	9	0	9	8	0	1302.0624	1302.0620	0.0004	1.0
11	9	0	12	10	0	1244.0784	1244.0781	0.0003	1.0
11	9	0	10	8	0	1302.3582	1302.3579	0.0003	1.0
12	9	0	13	10	0	1243.7800	1243.7797	0.0003	1.0
12	9	0	11	8	0	1302.6541	1302.6537	0.0004	1.0
13	9	0	14	10	0	1243.4815	1243.4813	0.0002	1.0
13	9	0	12	8	0	1302.9497	1302.9495	0.0003	1.0
14	9	0	15	10	0	1243.1829	1243.1827	0.0002	1.0
14	9	0	13	8	0	1303.2453	1303.2450	0.0003	1.0

15	9	0	16	10	0	1242.8843	1242.8841	0.0002	1.0
15	9	0	14	8	0	1303.5407	1303.5405	0.0002	1.0
16	9	0	17	10	0	1242.5856	1242.5854	0.0002	1.0
16	9	0	15	8	0	1303.8358	1303.8359	-0.0001	1.0
17	9	0	18	10	0	1242.2867	1242.2866	0.0001	1.0
17	9	0	16	8	0	1304.1313	1304.1311	0.0002	1.0
18	9	0	19	10	0	1241.9879	1241.9877	0.0002	1.0
18	9	0	17	8	0	1304.4264	1304.4262	0.0002	1.0
19	9	0	20	10	0	1241.6888	1241.6888	0.0000	1.0
20	9	0	21	10	0	1241.3899	1241.3898	0.0001	1.0
20	9	0	19	8	0	1305.0160	1305.0160	0.0000	1.0
21	9	0	22	10	0	1241.0907	1241.0907	-0.0001	1.0
21	9	0	20	8	0	1305.3107	1305.3107	0.0000	1.0
22	9	0	23	10	0	1240.7916	1240.7916	0.0000	1.0
22	9	0	21	8	0	1305.6048	1305.6053	-0.0005	1.0
23	9	0	24	10	0	1240.4923	1240.4924	-0.0001	1.0
23	9	0	22	8	0	1305.8995	1305.8997	-0.0002	1.0
24	9	0	25	10	0	1240.1931	1240.1932	-0.0001	1.0
24	9	0	23	8	0	1306.1938	1306.1939	-0.0001	1.0
25	9	0	26	10	0	1239.8938	1239.8940	-0.0002	1.0
25	9	0	24	8	0	1306.4878	1306.4880	-0.0002	1.0
26	9	0	27	10	0	1239.5944	1239.5947	-0.0003	1.0
26	9	0	25	8	0	1306.7818	1306.7819	-0.0001	1.0
27	9	0	28	10	0	1239.2954	1239.2954	0.0000	1.0
27	9	0	26	8	0	1307.0755	1307.0756	-0.0001	1.0
28	9	0	29	10	0	1238.9960	1238.9961	-0.0001	1.0
28	9	0	27	8	0	1307.3689	1307.3691	-0.0002	1.0
29	9	0	30	10	0	1238.6966	1238.6968	-0.0002	1.0
30	9	0	31	10	0	1238.3975	1238.3976	-0.0001	1.0
31	9	0	32	10	0	1238.0982	1238.0984	-0.0002	1.0
31	9	0	30	8	0	1308.2486	1308.2487	-0.0001	1.0
32	9	0	33	10	0	1237.7992	1237.7992	0.0000	1.0
32	9	0	31	8	0	1308.5413	1308.5415	-0.0002	1.0
33	9	0	34	10	0	1237.5001	1237.5003	-0.0001	1.0
33	9	0	32	8	0	1308.8339	1308.8343	-0.0004	1.0
34	9	0	35	10	0	1237.2018	1237.2020	-0.0002	1.0
34	9	0	33	8	0	1309.1277	1309.1275	0.0003	1.0
35	9	0	36	10	0	1236.8929	1236.8928	0.0001	1.0
36	9	0	37	10	0	1236.6001	1236.6005	-0.0004	1.0
36	9	0	35	8	0	1309.7075	1309.7080	-0.0005	1.0
37	9	0	38	10	0	1236.3019	1236.3021	-0.0003	1.0
37	9	0	36	8	0	1309.9999	1310.0001	-0.0002	1.0
38	9	0	39	10	0	1236.0032	1236.0034	-0.0002	1.0
39	9	0	40	10	0	1235.7048	1235.7047	0.0001	1.0
39	9	0	38	8	0	1310.5825	1310.5826	-0.0001	1.0
40	9	0	41	10	0	1235.4059	1235.4060	-0.0001	1.0

40	9	0	39	8	0	1310.8737	1310.8732	0.0005	1.0
41	9	0	40	8	0	1311.1640	1311.1636	0.0004	1.0
42	9	0	41	8	0	1311.4540	1311.4537	0.0004	1.0
43	9	0	42	8	0	1311.7438	1311.7434	0.0005	1.0
44	9	0	43	8	0	1312.0331	1312.0327	0.0004	1.0
45	9	0	44	8	0	1312.3224	1312.3217	0.0007	1.0
10	10	0	11	11	0	1241.5758	1241.5757	0.0001	1.0
10	10	0	9	9	0	1304.9599	1304.9599	0.0000	1.0
11	10	0	12	11	0	1241.2780	1241.2778	0.0002	1.0
11	10	0	10	9	0	1305.2563	1305.2562	0.0001	1.0
12	10	0	13	11	0	1240.9800	1240.9798	0.0002	1.0
12	10	0	11	9	0	1305.5526	1305.5524	0.0002	1.0
13	10	0	14	11	0	1240.6819	1240.6818	0.0002	1.0
13	10	0	12	9	0	1305.8487	1305.8486	0.0001	1.0
14	10	0	15	11	0	1240.3839	1240.3836	0.0002	1.0
14	10	0	13	9	0	1306.1448	1306.1447	0.0001	1.0
15	10	0	16	11	0	1240.0856	1240.0855	0.0002	1.0
15	10	0	14	9	0	1306.4409	1306.4407	0.0002	1.0
16	10	0	17	11	0	1239.7873	1239.7873	0.0001	1.0
16	10	0	15	9	0	1306.7367	1306.7367	0.0000	1.0
17	10	0	18	11	0	1239.4890	1239.4890	0.0000	1.0
17	10	0	16	9	0	1307.0329	1307.0326	0.0003	1.0
18	10	0	19	11	0	1239.1910	1239.1907	0.0003	1.0
18	10	0	17	9	0	1307.3286	1307.3284	0.0002	1.0
19	10	0	20	11	0	1238.8927	1238.8924	0.0003	1.0
20	10	0	21	11	0	1238.5942	1238.5941	0.0001	1.0
20	10	0	19	9	0	1307.9201	1307.9199	0.0003	1.0
21	10	0	22	11	0	1238.2959	1238.2957	0.0002	1.0
21	10	0	20	9	0	1308.2157	1308.2155	0.0002	1.0
22	10	0	23	11	0	1237.9974	1237.9974	0.0001	1.0
22	10	0	21	9	0	1308.5113	1308.5110	0.0003	1.0
23	10	0	24	11	0	1237.6993	1237.6991	0.0002	1.0
23	10	0	22	9	0	1308.8067	1308.8065	0.0002	1.0
24	10	0	25	11	0	1237.4010	1237.4008	0.0003	1.0
24	10	0	23	9	0	1309.1021	1309.1020	0.0001	1.0
25	10	0	26	11	0	1237.1025	1237.1025	-0.0001	1.0
26	10	0	27	11	0	1236.8046	1236.8043	0.0003	1.0
26	10	0	25	9	0	1309.6929	1309.6928	0.0001	1.0
27	10	0	28	11	0	1236.5063	1236.5062	0.0001	1.0
27	10	0	26	9	0	1309.9881	1309.9881	0.0000	1.0
28	10	0	29	11	0	1236.2083	1236.2082	0.0001	1.0
28	10	0	27	9	0	1310.2836	1310.2834	0.0002	1.0
29	10	0	30	11	0	1235.9103	1235.9104	-0.0001	1.0
29	10	0	28	9	0	1310.5787	1310.5787	0.0000	1.0
30	10	0	31	11	0	1235.6127	1235.6126	0.0001	1.0
30	10	0	29	9	0	1310.8737	1310.8740	-0.0003	1.0

31	10	0	32	11	0	1235.3152	1235.3151	0.0001	1.0
31	10	0	30	9	0	1311.1694	1311.1694	0.0000	1.0
32	10	0	33	11	0	1235.0178	1235.0178	0.0000	1.0
32	10	0	31	9	0	1311.4646	1311.4648	-0.0002	1.0
33	10	0	34	11	0	1234.7205	1234.7209	-0.0004	1.0
33	10	0	32	9	0	1311.7602	1311.7603	-0.0001	1.0
34	10	0	35	11	0	1234.4238	1234.4242	-0.0004	1.0
34	10	0	33	9	0	1312.0559	1312.0560	-0.0001	1.0
35	10	0	36	11	0	1234.1278	1234.1280	-0.0002	1.0
35	10	0	34	9	0	1312.3515	1312.3519	-0.0004	1.0
36	10	0	37	11	0	1233.8321	1233.8323	-0.0002	1.0
37	10	0	38	11	0	1233.5367	1233.5371	-0.0004	1.0
38	10	0	39	11	0	1233.2426	1233.2427	-0.0002	1.0
39	10	0	40	11	0	1232.9492	1232.9492	0.0000	1.0
40	10	0	41	11	0	1232.6576	1232.6567	0.0009	1.0
11	11	0	12	12	0	1238.4650	1238.4651	-0.0001	1.0
11	11	0	10	10	0	1308.1361	1308.1363	-0.0002	1.0
12	11	0	13	12	0	1238.1668	1238.1669	-0.0001	1.0
12	11	0	11	10	0	1308.4323	1308.4324	-0.0001	1.0
13	11	0	14	12	0	1237.8683	1237.8686	-0.0002	1.0
13	11	0	12	10	0	1308.7282	1308.7283	-0.0001	1.0
14	11	0	15	12	0	1237.5703	1237.5702	0.0001	1.0
14	11	0	13	10	0	1309.0240	1309.0242	-0.0002	1.0
15	11	0	16	12	0	1237.2714	1237.2717	-0.0003	1.0
15	11	0	14	10	0	1309.3199	1309.3200	-0.0001	1.0
16	11	0	17	12	0	1236.9732	1236.9731	0.0001	1.0
16	11	0	15	10	0	1309.6155	1309.6157	-0.0002	1.0
17	11	0	18	12	0	1236.6745	1236.6745	0.0000	1.0
17	11	0	16	10	0	1309.9111	1309.9113	-0.0002	1.0
18	11	0	19	12	0	1236.3758	1236.3757	0.0001	1.0
18	11	0	17	10	0	1310.2068	1310.2068	0.0001	1.0
19	11	0	20	12	0	1236.0771	1236.0769	0.0001	1.0
19	11	0	18	10	0	1310.5023	1310.5022	0.0002	1.0
20	11	0	21	12	0	1235.7782	1235.7781	0.0001	1.0
20	11	0	19	10	0	1310.7977	1310.7975	0.0003	1.0
21	11	0	22	12	0	1235.4796	1235.4792	0.0004	1.0
21	11	0	20	10	0	1311.0928	1311.0927	0.0001	1.0
22	11	0	23	12	0	1235.1803	1235.1802	0.0001	1.0
22	11	0	21	10	0	1311.3881	1311.3878	0.0003	1.0
23	11	0	24	12	0	1234.8813	1234.8812	0.0002	1.0
23	11	0	22	10	0	1311.6830	1311.6828	0.0002	1.0
24	11	0	25	12	0	1234.5823	1234.5821	0.0002	1.0
24	11	0	23	10	0	1311.9778	1311.9777	0.0002	1.0
25	11	0	26	12	0	1234.2834	1234.2830	0.0004	1.0
25	11	0	24	10	0	1312.2728	1312.2724	0.0004	1.0
26	11	0	27	12	0	1233.9839	1233.9838	0.0001	1.0

26	11	0	25	10	0	1312.5673	1312.5671	0.0002	1.0
27	11	0	28	12	0	1233.6849	1233.6846	0.0002	1.0
27	11	0	26	10	0	1312.8619	1312.8616	0.0003	1.0
28	11	0	29	12	0	1233.3857	1233.3854	0.0002	1.0
28	11	0	27	10	0	1313.1564	1313.1561	0.0003	1.0
29	11	0	30	12	0	1233.0865	1233.0862	0.0003	1.0
29	11	0	28	10	0	1313.4506	1313.4504	0.0002	1.0
30	11	0	31	12	0	1232.7873	1232.7870	0.0004	1.0
30	11	0	29	10	0	1313.7450	1313.7446	0.0004	1.0
31	11	0	32	12	0	1232.4880	1232.4877	0.0003	1.0
31	11	0	30	10	0	1314.0389	1314.0386	0.0003	1.0
32	11	0	33	12	0	1232.1887	1232.1884	0.0003	1.0
33	11	0	34	12	0	1231.8898	1231.8892	0.0006	1.0
34	11	0	35	12	0	1231.5899	1231.5900	-0.0001	1.0
35	11	0	36	12	0	1231.2908	1231.2908	0.0001	1.0
36	11	0	37	12	0	1230.9916	1230.9916	0.0000	1.0
37	11	0	38	12	0	1230.6923	1230.6924	-0.0002	1.0
38	11	0	39	12	0	1230.3932	1230.3933	-0.0002	1.0
39	11	0	40	12	0	1230.0939	1230.0943	-0.0004	1.0
40	11	0	41	12	0	1229.7949	1229.7953	-0.0004	1.0
12	12	0	13	13	0	1235.3106	1235.3108	-0.0002	1.0
12	12	0	11	11	0	1311.2629	1311.2628	0.0001	1.0
13	12	0	14	13	0	1235.0123	1235.0127	-0.0004	1.0
13	12	0	12	11	0	1311.5588	1311.5590	-0.0002	1.0
14	12	0	15	13	0	1234.7144	1234.7146	-0.0002	1.0
14	12	0	13	11	0	1311.8551	1311.8553	-0.0002	1.0
15	12	0	16	13	0	1234.4166	1234.4166	0.0001	1.0
15	12	0	14	11	0	1312.1513	1312.1516	-0.0003	1.0
16	12	0	17	13	0	1234.1186	1234.1190	-0.0003	1.0
16	12	0	15	11	0	1312.4483	1312.4483	0.0000	1.0
17	12	0	18	13	0	1233.8241	1233.8242	-0.0001	1.0
17	12	0	16	11	0	1312.7479	1312.7479	0.0000	1.0
18	12	0	19	13	0	1233.5152	1233.5150	0.0002	1.0
18	12	0	17	11	0	1313.0332	1313.0330	0.0002	1.0
19	12	0	20	13	0	1233.2188	1233.2192	-0.0004	1.0
19	12	0	18	11	0	1313.3314	1313.3315	-0.0001	1.0
20	12	0	21	13	0	1232.9210	1232.9212	-0.0002	1.0
20	12	0	19	11	0	1313.6275	1313.6278	-0.0003	1.0
21	12	0	22	13	0	1232.6224	1232.6227	-0.0003	1.0
21	12	0	20	11	0	1313.9233	1313.9235	-0.0002	1.0
22	12	0	23	13	0	1232.3238	1232.3240	-0.0002	1.0
23	12	0	24	13	0	1232.0252	1232.0252	0.0000	1.0
24	12	0	25	13	0	1231.7260	1231.7264	-0.0004	1.0
25	12	0	26	13	0	1231.4274	1231.4274	0.0000	1.0
26	12	0	27	13	0	1231.1282	1231.1284	-0.0002	1.0
27	12	0	28	13	0	1230.8291	1230.8293	-0.0002	1.0

28	12	0	29	13	0	1230.5299	1230.5302	-0.0002	1.0
29	12	0	30	13	0	1230.2308	1230.2310	-0.0002	1.0
30	12	0	31	13	0	1229.9316	1229.9318	-0.0002	1.0
31	12	0	32	13	0	1229.6325	1229.6325	-0.0001	1.0
32	12	0	33	13	0	1229.3333	1229.3333	0.0000	1.0
33	12	0	34	13	0	1229.0339	1229.0340	-0.0001	1.0
34	12	0	35	13	0	1228.7345	1228.7347	-0.0002	1.0
34	12	0	33	11	0	1317.7556	1317.7554	0.0002	1.0
35	12	0	34	11	0	1318.0494	1318.0493	0.0001	1.0
36	12	0	35	11	0	1318.3432	1318.3431	0.0002	1.0
39	12	0	38	11	0	1319.2234	1319.2234	0.0000	1.0
40	12	0	39	11	0	1319.5168	1319.5166	0.0002	1.0
13	13	0	14	14	0	1231.9848	1231.9845	0.0003	1.0
13	13	0	12	12	0	1314.2108	1314.2105	0.0003	1.0
14	13	0	15	14	0	1231.6883	1231.6881	0.0002	1.0
14	13	0	13	12	0	1314.5089	1314.5086	0.0003	1.0
15	13	0	16	14	0	1231.3920	1231.3918	0.0002	1.0
15	13	0	14	12	0	1314.8069	1314.8067	0.0002	1.0
16	13	0	17	14	0	1231.0957	1231.0956	0.0001	1.0
16	13	0	15	12	0	1315.1049	1315.1048	0.0001	0.1
17	13	0	18	14	0	1230.7991	1230.7994	-0.0003	1.0
17	13	0	16	12	0	1315.4033	1315.4030	0.0003	1.0
18	13	0	19	14	0	1230.5032	1230.5033	-0.0001	1.0
18	13	0	17	12	0	1315.7014	1315.7013	0.0001	1.0
19	13	0	20	14	0	1230.2071	1230.2072	-0.0001	1.0
19	13	0	18	12	0	1315.9997	1315.9996	0.0001	1.0
20	13	0	21	14	0	1229.9113	1229.9111	0.0001	1.0
20	13	0	19	12	0	1316.2978	1316.2980	-0.0002	1.0
21	13	0	22	14	0	1229.6148	1229.6152	-0.0004	1.0
22	13	0	23	14	0	1229.3190	1229.3193	-0.0003	1.0
23	13	0	24	14	0	1229.0228	1229.0234	-0.0006	1.0
24	13	0	25	14	0	1228.7270	1228.7276	-0.0007	1.0
24	13	0	23	12	0	1317.4917	1317.4917	0.0000	1.0
25	13	0	24	12	0	1317.7902	1317.7902	0.0000	1.0
26	13	0	25	12	0	1318.0888	1318.0887	0.0001	1.0
27	13	0	26	12	0	1318.3873	1318.3873	0.0001	1.0
28	13	0	27	12	0	1318.6857	1318.6858	-0.0001	1.0
29	13	0	28	12	0	1318.9848	1318.9843	0.0005	1.0
30	13	0	29	12	0	1319.2832	1319.2828	0.0004	1.0
14	14	0	13	13	0	1316.6151	1316.6148	0.0003	1.0*
14	14	0	15	15	0	1228.1226	1228.1221	0.0005	1.0*
15	14	0	14	13	0	1316.9171	1316.9153	0.0018	0.1*
15	14	0	16	15	0	1227.8284	1227.8281	0.0003	1.0*
16	14	0	15	13	0	1317.2144	1317.2160	-0.0016	0.1*
16	14	0	17	15	0	1227.5339	1227.5343	-0.0004	1.0*
17	14	0	16	13	0	1317.5166	1317.5168	-0.0002	1.0*

17	14	0	18	15	0	1227.2392	1227.2407	-0.0015	0.1*
18	14	0	17	13	0	1317.8176	1317.8178	-0.0002	1.0*
18	14	0	19	15	0	1226.9464	1226.9472	-0.0008	0.1*
19	14	0	18	13	0	1318.1190	1318.1190	0.0000	1.0*
14	14	0	15	15	0	1229.9434	1229.9444	-0.0010	1.0
15	14	0	14	13	0	1318.7339	1318.7343	-0.0004	1.0
15	14	0	16	15	0	1229.6463	1229.6471	-0.0008	1.0
16	14	0	15	13	0	1319.0311	1319.0314	-0.0003	1.0
16	14	0	17	15	0	1229.3494	1229.3498	-0.0004	1.0
17	14	0	16	13	0	1319.3284	1319.3286	-0.0002	1.0
17	14	0	18	15	0	1229.0517	1229.0524	-0.0007	1.0
18	14	0	17	13	0	1319.6260	1319.6257	0.0003	1.0
18	14	0	19	15	0	1228.7550	1228.7551	-0.0001	1.0
19	14	0	18	13	0	1319.9232	1319.9228	0.0004	1.0
19	14	0	20	15	0	1228.4584	1228.4577	0.0007	1.0
20	14	0	19	13	0	1320.2203	1320.2199	0.0004	1.0
20	14	0	21	15	0	1228.1606	1228.1604	0.0002	1.0
21	14	0	20	13	0	1320.5177	1320.5170	0.0007	1.0
21	14	0	22	15	0	1227.8635	1227.8630	0.0005	1.0
22	14	0	21	13	0	1320.8139	1320.8141	-0.0002	1.0
22	14	0	23	15	0	1227.5662	1227.5656	0.0006	1.0
15	15	0	14	14	0	1321.4101	1321.4096	0.0005	1.0
15	15	0	16	16	0	1226.6588	1226.6581	0.0007	1.0
16	15	0	15	14	0	1321.7068	1321.7061	0.0008	1.0
16	15	0	17	16	0	1226.3600	1226.3600	0.0000	1.0
17	15	0	16	14	0	1322.0035	1322.0024	0.0011	1.0
17	15	0	18	16	0	1226.0620	1226.0618	0.0002	1.0
18	15	0	17	14	0	1322.2993	1322.2987	0.0006	1.0
18	15	0	19	16	0	1225.7632	1225.7636	-0.0004	1.0
19	15	0	18	14	0	1322.5952	1322.5950	0.0002	1.0
19	15	0	20	16	0	1225.4647	1225.4653	-0.0006	1.0
20	15	0	19	14	0	1322.8913	1322.8911	0.0002	1.0
20	15	0	21	16	0	1225.1665	1225.1669	-0.0004	1.0
21	15	0	20	14	0	1323.1874	1323.1872	0.0002	1.0
21	15	0	22	16	0	1224.8685	1224.8684	0.0001	1.0
22	15	0	21	14	0	1323.4834	1323.4832	0.0002	1.0
22	15	0	23	16	0	1224.5693	1224.5699	-0.0006	1.0
23	15	0	22	14	0	1323.7791	1323.7792	-0.0001	1.0
23	15	0	24	16	0	1224.2709	1224.2713	-0.0004	1.0
24	15	0	23	14	0	1324.0750	1324.0750	0.0000	0.1
24	15	0	25	16	0	1223.9720	1223.9726	-0.0006	1.0
25	15	0	24	14	0	1324.3707	1324.3707	0.0000	0.1
25	15	0	26	16	0	1223.6740	1223.6739	0.0001	0.1
26	15	0	25	14	0	1324.6664	1324.6664	0.0000	1.0
26	15	0	27	16	0	1223.3745	1223.3751	-0.0006	1.0
27	15	0	26	14	0	1324.9626	1324.9619	0.0007	0.1

27	15	0	28	16	0	1223.0757	1223.0762	-0.0005	1.0
28	15	0	27	14	0	1325.2575	1325.2574	0.0002	1.0
28	15	0	29	16	0	1222.7770	1222.7772	-0.0002	1.0
29	15	0	28	14	0	1325.5526	1325.5527	-0.0001	1.0
29	15	0	30	16	0	1222.4786	1222.4782	0.0004	0.1
30	15	0	29	14	0	1325.8480	1325.8479	0.0001	1.0
16	16	0	16	16	0	1275.4951	1275.4948	0.0003	1.0
16	16	0	15	15	0	1324.4351	1324.4342	0.0009	1.0
16	16	0	17	17	0	1223.4332	1223.4324	0.0008	1.0
17	16	0	17	16	0	1275.4982	1275.4985	-0.0003	1.0
17	16	0	16	16	0	1280.5481	1280.5490	-0.0009	1.0
17	16	0	16	15	0	1324.7350	1324.7352	-0.0002	1.0
17	16	0	18	17	0	1223.1385	1223.1387	-0.0002	1.0
18	16	0	18	16	0	1275.5016	1275.5020	-0.0004	1.0
18	16	0	17	16	0	1280.8484	1280.8495	-0.0011	0.1
18	16	0	17	15	0	1325.0359	1325.0360	-0.0001	1.0
18	16	0	19	17	0	1222.8448	1222.8449	-0.0001	1.0
19	16	0	19	16	0	1275.5063	1275.5053	0.0010	0.0
19	16	0	18	16	0	1281.1516	1281.1499	0.0017	0.0
19	16	0	18	15	0	1325.3378	1325.3366	0.0012	0.0
19	16	0	20	17	0	1222.5521	1222.5509	0.0012	0.0
20	16	0	20	16	0	1275.5117	1275.5084	0.0034	0.0
20	16	0	19	15	0	1325.6410	1325.6370	0.0040	0.0
20	16	0	21	17	0	1222.2606	1222.2566	0.0040	0.0
21	16	0	21	16	0	1275.5212	1275.5111	0.0101	0.0
21	16	0	20	16	0	1281.7600	1281.7498	0.0102	0.0
21	16	0	20	15	0	1325.9469	1325.9371	0.0098	0.0
21	16	0	22	17	0	1221.9716	1221.9620	0.0096	0.0
22	16	0	22	16	0	1275.5339	1275.5137	0.0202	0.0
22	16	0	21	15	0	1326.2582	1326.2369	0.0213	0.0
22	16	0	23	17	0	1221.6870	1221.6672	0.0198	0.0

Table A-12. Observed and calculated (Fit A) transitions of acrolein in the $8^1 \leftarrow 0$ fundamental band (values in cm^{-1}).

*These perturbing state transitions are assigned to the $14^1 13^1$ state.

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
2	0	2	3	0	3	1358.6054	1358.6054	0.0000	1.0
3	0	3	4	0	4	1358.3095	1358.3093	0.0002	1.0
4	0	4	4	1	3	1357.9945	1357.9946	-0.0001	1.0
4	0	4	5	0	5	1358.0137	1358.0138	-0.0001	1.0
5	0	5	5	1	4	1357.9587	1357.9587	0.0000	1.0
6	0	6	5	0	5	1361.2751	1361.2754	-0.0003	1.0
6	0	6	6	1	5	1357.9146	1357.9148	-0.0002	1.0

7	0	7	6	0	6	1361.5707	1361.5708	-0.0001	1.0
7	0	7	7	1	6	1357.8620	1357.8623	-0.0003	1.0
8	0	8	7	1	7	1360.6190	1360.6190	0.0000	1.0
8	0	8	7	0	7	1361.8655	1361.8654	0.0001	1.0
8	0	8	8	1	7	1357.8005	1357.8009	-0.0004	1.0
8	0	8	9	0	9	1356.8380	1356.8381	-0.0001	1.0
9	0	9	8	0	8	1362.1593	1362.1593	0.0000	1.0
10	0	10	9	0	9	1362.4524	1362.4523	0.0001	1.0
10	0	10	10	1	9	1357.6487	1357.6487	0.0001	1.0
10	0	10	9	1	9	1361.3086	1361.3084	0.0003	1.0
11	0	11	10	1	10	1361.6574	1361.6573	0.0001	1.0
11	0	11	10	0	10	1362.7443	1362.7444	-0.0001	1.0
11	0	11	11	1	10	1357.5567	1357.5566	0.0001	1.0
12	0	12	11	1	11	1362.0080	1362.0080	0.0000	1.0
12	0	12	12	1	11	1357.4537	1357.4530	0.0007	1.0
13	0	13	12	1	12	1362.3598	1362.3597	0.0001	1.0
13	0	13	13	1	12	1357.3373	1357.3373	0.0000	1.0
14	0	14	13	1	13	1362.7116	1362.7117	-0.0001	1.0
14	0	14	14	1	13	1357.2088	1357.2087	0.0001	1.0
15	0	15	15	1	14	1357.0665	1357.0668	-0.0003	1.0
16	0	16	16	1	15	1356.9110	1356.9111	-0.0001	1.0
17	0	17	17	1	16	1356.7411	1356.7412	-0.0001	1.0
18	0	18	18	1	17	1356.5567	1356.5568	-0.0001	1.0
19	0	19	19	1	18	1356.3579	1356.3580	-0.0001	1.0
20	0	20	20	1	19	1356.1446	1356.1448	-0.0002	1.0
21	0	21	21	1	20	1355.9176	1355.9174	0.0002	1.0
23	0	23	23	1	22	1355.4221	1355.4220	0.0001	1.0
24	0	24	24	1	23	1355.1547	1355.1554	-0.0007	1.0
25	0	25	25	1	24	1354.8772	1354.8773	-0.0001	1.0
26	0	26	26	1	25	1354.5888	1354.5887	0.0001	0.1
26	0	26	25	0	25	1367.0111	1367.0112	-0.0001	0.1
27	0	27	27	1	26	1354.2899	1354.2906	-0.0007	1.0
27	0	27	26	0	26	1367.2914	1367.2913	0.0001	0.1
28	0	28	28	1	27	1353.9842	1353.9843	-0.0001	1.0
28	0	28	27	0	27	1367.5714	1367.5713	0.0001	1.0
29	0	29	28	0	28	1367.8514	1367.8512	0.0002	1.0
30	0	30	29	0	29	1368.1310	1368.1311	-0.0001	1.0
31	0	31	32	0	32	1350.2836	1350.2835	0.0001	1.0
31	0	31	30	0	30	1368.4111	1368.4110	0.0001	1.0
32	0	32	33	0	33	1350.0001	1350.0001	0.0000	1.0
32	0	32	31	0	31	1368.6910	1368.6909	0.0001	1.0
33	0	33	34	0	34	1349.7167	1349.7167	0.0001	1.0
33	0	33	32	0	32	1368.9709	1368.9708	0.0001	1.0
34	0	34	35	0	35	1349.4330	1349.4330	0.0000	0.1
34	0	34	33	0	33	1369.2508	1369.2507	0.0001	1.0
35	0	35	34	0	34	1369.5306	1369.5306	0.0000	1.0

36	0	36	37	0	37	1348.8654	1348.8654	0.0000	1.0
36	0	36	35	0	35	1369.8106	1369.8105	0.0001	1.0
37	0	37	38	0	38	1348.5806	1348.5814	-0.0008	0.1
37	0	37	36	0	36	1370.0904	1370.0904	0.0001	1.0
38	0	38	39	0	39	1348.2971	1348.2974	-0.0003	0.1
38	0	38	37	0	37	1370.3698	1370.3704	-0.0006	1.0
39	0	39	40	0	40	1348.0132	1348.0131	0.0001	1.0
39	0	39	38	0	38	1370.6499	1370.6501	-0.0002	1.0
40	0	40	41	0	41	1347.7286	1347.7283	0.0003	1.0
40	0	40	39	0	39	1370.9298	1370.9294	0.0004	1.0
41	0	41	42	0	42	1347.4443	1347.4442	0.0001	1.0
41	0	41	40	0	40	1371.2099	1371.2095	0.0004	1.0
2	1	2	3	1	3	1358.6281	1358.6279	0.0002	1.0
3	1	3	4	1	4	1358.3382	1358.3380	0.0002	1.0
4	1	4	3	1	3	1360.6575	1360.6576	-0.0001	1.0
5	1	5	6	1	6	1357.7586	1357.7587	-0.0001	1.0
6	1	6	5	0	5	1362.5666	1362.5667	-0.0001	1.0
6	1	6	7	0	7	1358.7156	1358.7156	0.0000	1.0
6	1	6	7	1	7	1357.4692	1357.4692	0.0000	1.0
7	1	7	8	0	8	1358.3773	1358.3772	0.0001	1.0
8	1	8	9	1	9	1356.8908	1356.8908	0.0000	1.0
8	1	8	7	1	7	1361.8157	1361.8158	-0.0001	1.0
8	1	8	9	0	9	1358.0355	1358.0348	0.0007	1.0
9	1	9	10	1	10	1356.6018	1356.6019	-0.0001	1.0
10	1	10	9	1	9	1362.3937	1362.3938	-0.0001	1.0
11	1	11	10	1	10	1362.6824	1362.6824	0.0000	1.0
12	1	12	13	0	13	1356.6393	1356.6389	0.0004	1.0
13	1	13	14	0	14	1356.2888	1356.2872	0.0017	0.1
14	1	14	15	0	15	1355.9378	1355.9358	0.0020	0.1
15	1	15	16	0	16	1355.5857	1355.5857	0.0001	1.0
16	1	16	17	0	17	1355.2369	1355.2373	-0.0004	1.0
17	1	17	18	0	18	1354.8908	1354.8912	-0.0004	0.1
20	1	20	21	1	21	1353.4385	1353.4384	0.0001	1.0
21	1	21	22	1	22	1353.1523	1353.1521	0.0002	1.0
22	1	22	23	1	23	1352.8659	1352.8659	0.0000	1.0
23	1	23	24	1	24	1352.5797	1352.5800	-0.0003	1.0
24	1	24	25	1	25	1352.2941	1352.2942	-0.0001	1.0
25	1	25	26	1	26	1352.0084	1352.0085	-0.0001	1.0
26	1	26	27	1	27	1351.7230	1351.7230	0.0001	1.0
27	1	27	28	1	28	1351.4377	1351.4375	0.0002	1.0
28	1	28	29	1	29	1351.1520	1351.1522	-0.0002	0.1
29	1	29	30	1	30	1350.8666	1350.8670	-0.0004	1.0
30	1	30	31	1	31	1350.5820	1350.5818	0.0002	1.0
31	1	31	32	1	32	1350.2967	1350.2967	0.0000	1.0
32	1	32	33	1	33	1350.0117	1350.0117	0.0000	1.0
33	1	33	34	1	34	1349.7265	1349.7267	-0.0002	1.0

34	1	34	35	1	35	1349.4418	1349.4417	0.0001	1.0
35	1	35	36	1	36	1349.1569	1349.1568	0.0001	1.0
36	1	36	37	1	37	1348.8719	1348.8718	0.0001	1.0
37	1	37	38	1	38	1348.5873	1348.5869	0.0004	0.1
38	1	38	39	1	39	1348.3017	1348.3020	-0.0003	1.0
39	1	39	40	1	40	1348.0163	1348.0171	-0.0008	0.1
40	1	40	41	1	41	1347.7321	1347.7322	-0.0001	1.0
41	1	41	42	1	42	1347.4471	1347.4472	-0.0001	1.0
42	1	42	43	1	43	1347.1620	1347.1623	-0.0003	1.0
2	1	1	3	1	2	1358.5867	1358.5867	0.0000	1.0
3	1	2	4	1	3	1358.2835	1358.2835	0.0000	1.0
4	1	3	5	1	4	1357.9804	1357.9805	-0.0001	1.0
5	1	4	5	0	5	1361.0384	1361.0386	-0.0002	1.0
5	1	4	6	1	5	1357.6779	1357.6779	0.0000	1.0
6	1	5	5	1	4	1361.3241	1361.3240	0.0001	1.0
6	1	5	6	0	6	1361.0843	1361.0841	0.0002	1.0
6	1	5	7	1	6	1357.3757	1357.3757	0.0001	1.0
7	1	6	6	1	5	1361.6284	1361.6286	-0.0002	1.0
7	1	6	7	0	7	1361.1383	1361.1383	0.0000	1.0
7	1	6	8	1	7	1357.0738	1357.0737	0.0001	1.0
8	1	7	8	0	8	1361.2016	1361.2017	-0.0001	1.0
8	1	7	9	1	8	1356.7722	1356.7722	0.0000	1.0
9	1	8	10	1	9	1356.4711	1356.4711	0.0000	1.0
9	1	8	9	0	9	1361.2751	1361.2748	0.0003	1.0
9	1	8	8	1	7	1362.2375	1362.2376	-0.0001	1.0
10	1	9	10	0	10	1361.3580	1361.3583	-0.0003	1.0
10	1	9	9	1	8	1362.5421	1362.5420	0.0001	1.0
11	1	10	11	0	11	1361.4526	1361.4527	-0.0001	1.0
12	1	11	12	0	12	1361.5586	1361.5587	-0.0001	1.0
13	1	12	13	0	13	1361.6770	1361.6770	0.0000	1.0
14	1	13	14	0	14	1361.8080	1361.8081	-0.0001	1.0
15	1	14	15	0	15	1361.9525	1361.9525	0.0000	1.0
16	1	15	16	0	16	1362.1106	1362.1107	-0.0001	1.0
17	1	16	17	0	17	1362.2831	1362.2831	0.0000	1.0
18	1	17	18	0	18	1362.4695	1362.4698	-0.0003	1.0
19	1	18	19	0	19	1362.6709	1362.6709	0.0000	1.0
19	1	18	20	1	19	1353.4907	1353.4907	0.0000	1.0
20	1	19	19	2	18	1362.5242	1362.5243	-0.0001	1.0
20	1	19	21	1	20	1353.1964	1353.1966	-0.0002	1.0
21	1	20	22	1	21	1352.9033	1352.9033	0.0000	1.0
22	1	21	23	1	22	1352.6109	1352.6110	-0.0001	1.0
23	1	22	24	1	23	1352.3194	1352.3196	-0.0002	0.1
24	1	23	25	1	24	1352.0291	1352.0292	-0.0001	1.0
25	1	24	26	1	25	1351.7398	1351.7397	0.0001	0.1
26	1	25	27	1	26	1351.4511	1351.4513	-0.0002	1.0
27	1	26	28	1	27	1351.1632	1351.1638	-0.0006	0.1

28	1	27	29	1	28	1350.8773	1350.8774	-0.0001	1.0
29	1	28	30	1	29	1350.5917	1350.5919	-0.0002	1.0
30	1	29	31	1	30	1350.3071	1350.3073	-0.0002	1.0
31	1	30	32	1	31	1350.0235	1350.0235	0.0000	1.0
32	1	31	33	1	32	1349.7400	1349.7405	-0.0005	1.0
33	1	32	34	1	33	1349.4586	1349.4583	0.0004	0.1
34	1	33	35	1	34	1349.1766	1349.1766	0.0000	1.0
35	1	34	36	1	35	1348.8954	1348.8954	0.0000	1.0
36	1	35	37	1	36	1348.6144	1348.6146	-0.0002	1.0
37	1	36	38	1	37	1348.3341	1348.3341	0.0000	1.0
39	1	38	38	1	37	1371.0608	1371.0610	-0.0002	1.0
39	1	38	40	1	39	1347.7738	1347.7737	0.0001	0.1
40	1	39	41	1	40	1347.4935	1347.4936	-0.0001	1.0
41	1	40	42	1	41	1347.2138	1347.2135	0.0003	0.1
42	1	41	43	1	42	1346.9333	1346.9334	-0.0001	1.0
2	2	1	3	2	2	1358.6137	1358.6139	-0.0002	1.0
3	2	2	4	2	3	1358.3166	1358.3173	-0.0007	1.0
7	2	6	6	2	5	1361.5849	1361.5848	0.0001	1.0
8	2	7	7	2	6	1361.8819	1361.8820	-0.0001	1.0
8	2	7	9	2	8	1356.8380	1356.8371	0.0009	1.0
9	2	8	8	2	7	1362.1791	1362.1791	0.0000	1.0
9	2	8	10	2	9	1356.5420	1356.5418	0.0003	1.0
10	2	9	9	2	8	1362.4761	1362.4762	-0.0001	1.0
11	2	10	10	2	9	1362.7732	1362.7731	0.0001	1.0
12	2	11	11	2	10	1363.0700	1363.0700	0.0000	1.0
13	2	12	12	2	11	1363.3667	1363.3666	0.0001	1.0
14	2	13	13	2	12	1363.6622	1363.6631	-0.0009	0.1
14	2	13	15	1	14	1358.5538	1358.5539	-0.0001	1.0
15	2	14	14	2	13	1363.9596	1363.9595	0.0002	1.0
16	2	15	15	2	14	1364.2555	1364.2556	-0.0001	1.0
16	2	15	17	1	16	1357.7548	1357.7555	-0.0007	1.0
17	2	16	16	2	15	1364.5511	1364.5514	-0.0003	1.0
17	2	16	18	1	17	1357.3495	1357.3495	0.0000	1.0
18	2	17	17	2	16	1364.8469	1364.8470	-0.0001	1.0
19	2	18	18	2	17	1365.1424	1365.1424	0.0000	1.0
20	2	19	19	2	18	1365.4373	1365.4374	-0.0001	1.0
20	2	19	19	3	16	1358.0894	1358.0892	0.0002	1.0
21	2	20	20	2	19	1365.7322	1365.7321	0.0001	1.0
21	2	20	20	3	17	1358.3382	1358.3388	-0.0006	1.0
22	2	21	21	2	20	1366.0264	1366.0265	-0.0001	1.0
23	2	22	22	2	21	1366.3207	1366.3205	0.0002	1.0
24	2	23	23	2	22	1366.6141	1366.6141	0.0000	1.0
25	2	24	24	2	23	1366.9072	1366.9074	-0.0002	1.0
26	2	25	25	2	24	1367.2002	1367.2002	0.0000	1.0
27	2	26	26	2	25	1367.4923	1367.4926	-0.0003	1.0
28	2	27	27	2	26	1367.7840	1367.7846	-0.0006	1.0

29	2	28	28	2	27	1368.0763	1368.0762	0.0002	1.0
30	2	29	29	2	28	1368.3673	1368.3672	0.0001	1.0
31	2	30	30	2	29	1368.6576	1368.6579	-0.0003	1.0
32	2	31	31	2	30	1368.9478	1368.9480	-0.0002	1.0
33	2	32	32	2	31	1369.2369	1369.2377	-0.0008	1.0
34	2	33	33	2	32	1369.5271	1369.5269	0.0002	1.0
35	2	34	34	2	33	1369.8157	1369.8157	0.0001	1.0
36	2	35	35	2	34	1370.1039	1370.1039	0.0000	1.0
37	2	36	36	2	35	1370.3915	1370.3918	-0.0003	0.1
38	2	37	37	2	36	1370.6790	1370.6791	-0.0001	0.1
39	2	38	38	2	37	1370.9659	1370.9660	-0.0001	1.0
40	2	39	39	2	38	1371.2527	1371.2525	0.0002	0.1
41	2	40	40	2	39	1371.5385	1371.5386	-0.0001	0.1
2	2	0	3	2	1	1358.6137	1358.6135	0.0002	1.0
3	2	1	4	2	2	1358.3166	1358.3163	0.0003	1.0
6	2	4	5	2	3	1361.2911	1361.2913	-0.0002	1.0
7	2	5	6	2	4	1361.5908	1361.5908	0.0000	1.0
7	2	5	8	2	6	1357.1246	1357.1246	0.0000	1.0
8	2	6	7	2	5	1361.8910	1361.8910	0.0000	1.0
8	2	6	9	2	7	1356.8258	1356.8256	0.0002	1.0
9	2	7	10	2	8	1356.5263	1356.5260	0.0003	1.0
10	2	8	9	2	7	1362.4926	1362.4938	-0.0012	1.0
11	2	9	10	2	8	1362.7967	1362.7967	0.0000	1.0
12	2	10	11	2	9	1363.1005	1363.1005	0.0000	1.0
13	2	11	12	2	10	1363.4035	1363.4053	-0.0018	0.1
14	2	12	13	2	11	1363.7110	1363.7112	-0.0002	1.0
15	2	13	14	2	12	1364.0194	1364.0180	0.0014	0.1
16	2	14	15	2	13	1364.3259	1364.3258	0.0001	1.0
17	2	15	16	2	14	1364.6343	1364.6345	-0.0002	1.0
18	2	16	17	2	15	1364.9439	1364.9440	-0.0001	1.0
19	2	17	18	2	16	1365.2540	1365.2542	-0.0002	1.0
20	2	18	19	2	17	1365.5646	1365.5649	-0.0003	1.0
21	2	19	20	2	18	1365.8760	1365.8760	0.0000	1.0
22	2	20	21	2	19	1366.1872	1366.1873	-0.0001	1.0
23	2	21	22	2	20	1366.4989	1366.4988	0.0002	1.0
24	2	22	23	2	21	1366.8101	1366.8102	-0.0001	1.0
25	2	23	24	2	22	1367.1214	1367.1214	0.0000	1.0
26	2	24	25	2	23	1367.4323	1367.4323	0.0000	1.0
27	2	25	26	2	24	1367.7426	1367.7429	-0.0003	1.0
28	2	26	27	2	25	1368.0528	1368.0529	-0.0001	1.0
29	2	27	28	2	26	1368.3622	1368.3624	-0.0002	1.0
30	2	28	29	2	27	1368.6717	1368.6712	0.0005	0.1
31	2	29	30	2	28	1368.9794	1368.9792	0.0002	1.0
32	2	30	31	2	29	1369.2863	1369.2864	-0.0001	1.0
33	2	31	32	2	30	1369.5921	1369.5926	-0.0005	1.0
34	2	32	33	2	31	1369.8974	1369.8979	-0.0005	0.1

35	2	33	34	2	32	1370.2019	1370.2021	-0.0002	1.0
36	2	34	35	2	33	1370.5051	1370.5052	-0.0001	1.0
37	2	35	36	2	34	1370.8068	1370.8071	-0.0003	1.0
38	2	36	37	2	35	1371.1080	1371.1076	0.0004	0.1
39	2	37	38	2	36	1371.4064	1371.4068	-0.0004	1.0
40	2	38	39	2	37	1371.7051	1371.7046	0.0005	0.1
41	2	39	40	2	38	1372.0007	1372.0009	-0.0002	1.0
4	3	0	5	3	0	1358.0311	1358.0314	-0.0003	1.0
6	3	0	7	3	0	1357.4377	1357.4381	-0.0004	1.0
7	3	0	6	3	0	1361.5976	1361.5977	-0.0001	1.0
7	3	0	8	3	0	1357.1412	1357.1415	-0.0003	1.0
8	3	0	9	3	0	1356.8448	1356.8449	-0.0001	1.0
8	3	0	7	3	0	1361.8957	1361.8958	-0.0001	1.0
10	3	0	9	3	0	1362.4926	1362.4926	0.0000	1.0
11	3	0	10	3	0	1362.7912	1362.7913	-0.0001	1.0
12	3	0	11	3	0	1363.0901	1363.0903	-0.0002	0.1
13	3	0	12	3	0	1363.3896	1363.3895	0.0001	1.0
15	3	13	14	3	12	1363.9872	1363.9873	-0.0001	1.0
16	3	14	15	3	13	1364.2867	1364.2868	-0.0001	1.0
17	3	15	16	3	14	1364.5865	1364.5865	0.0000	1.0
18	3	16	17	3	15	1364.8862	1364.8863	-0.0001	1.0
19	3	17	20	4	16	1343.5898	1343.5898	0.0000	1.0
19	3	17	18	3	16	1365.1863	1365.1863	0.0000	1.0
20	3	18	21	4	17	1343.2956	1343.2955	0.0001	1.0
20	3	18	19	3	17	1365.4863	1365.4864	-0.0001	1.0
21	3	19	20	3	18	1365.7865	1365.7865	0.0000	1.0
22	3	20	23	4	19	1342.7056	1342.7055	0.0001	1.0
22	3	20	21	3	19	1366.0868	1366.0868	0.0000	1.0
23	3	21	24	4	20	1342.4094	1342.4094	0.0000	1.0
23	3	21	22	3	20	1366.3866	1366.3871	-0.0005	1.0
24	3	22	25	4	21	1342.1120	1342.1121	-0.0001	1.0
24	3	22	25	2	23	1358.2490	1358.2492	-0.0002	1.0
24	3	22	23	3	21	1366.6881	1366.6874	0.0007	0.1
25	3	23	24	3	22	1366.9877	1366.9876	0.0001	1.0
26	3	24	27	4	23	1341.5125	1341.5127	-0.0002	1.0
26	3	24	25	3	23	1367.2880	1367.2879	0.0001	1.0
27	3	25	26	3	24	1367.5881	1367.5881	0.0001	1.0
28	3	26	27	3	25	1367.8880	1367.8881	-0.0001	1.0
29	3	27	28	3	26	1368.1880	1368.1881	-0.0001	1.0
30	3	28	29	3	27	1368.4882	1368.4878	0.0004	1.0
31	3	29	32	4	28	1339.9649	1339.9645	0.0004	1.0
31	3	29	30	3	28	1368.7873	1368.7874	-0.0001	1.0
32	3	30	31	3	29	1369.0860	1369.0867	-0.0007	0.1
33	3	31	32	3	30	1369.3857	1369.3858	-0.0001	1.0
34	3	32	33	3	31	1369.6846	1369.6845	0.0001	1.0
35	3	33	34	3	32	1369.9832	1369.9830	0.0002	1.0

36	3	34	35	3	33	1370.2815	1370.2811	0.0004	0.1
37	3	35	36	3	34	1370.5786	1370.5788	-0.0002	1.0
38	3	36	37	3	35	1370.8759	1370.8761	-0.0002	1.0
39	3	37	38	3	36	1371.1729	1371.1729	0.0000	1.0
40	3	38	39	3	37	1371.4692	1371.4693	-0.0001	1.0
41	3	39	40	3	38	1371.7651	1371.7648	0.0003	0.1
42	3	40	41	3	39	1372.0608	1372.0618	-0.0010	0.1
43	3	41	42	3	40	1372.3554	1372.3562	-0.0008	0.1
44	3	42	43	3	41	1372.6506	1372.6505	0.0001	1.0
15	3	12	14	3	11	1363.9904	1363.9904	0.0000	1.0
16	3	13	15	3	12	1364.2911	1364.2911	0.0000	1.0
17	3	14	16	3	13	1364.5922	1364.5924	-0.0002	1.0
18	3	15	17	3	14	1364.8945	1364.8942	0.0003	1.0
19	3	16	20	4	17	1343.6260	1343.6260	0.0000	1.0
19	3	16	18	3	15	1365.1966	1365.1966	0.0000	1.0
20	3	17	21	4	18	1343.3444	1343.3445	-0.0001	1.0
20	3	17	19	3	16	1365.4999	1365.4997	0.0002	0.1
21	3	18	22	4	19	1343.0659	1343.0660	-0.0001	1.0
21	3	18	20	3	17	1365.8039	1365.8035	0.0004	0.1
22	3	19	23	4	20	1342.7910	1342.7911	-0.0001	1.0
22	3	19	21	3	18	1366.1073	1366.1081	-0.0008	0.1
23	3	20	24	4	21	1342.5202	1342.5203	-0.0001	1.0
23	3	20	22	3	19	1366.4137	1366.4136	0.0001	1.0
24	3	21	25	4	22	1342.2539	1342.2542	-0.0003	1.0
24	3	21	23	3	20	1366.7196	1366.7200	-0.0004	0.1
25	3	22	26	4	23	1341.9933	1341.9934	-0.0001	1.0
25	3	22	24	3	21	1367.0274	1367.0274	0.0000	1.0
26	3	23	25	3	22	1367.3359	1367.3358	0.0001	1.0
27	3	24	28	4	25	1341.4903	1341.4903	0.0000	1.0
27	3	24	26	3	23	1367.6452	1367.6452	0.0000	1.0
28	3	25	27	3	24	1367.9557	1367.9557	0.0000	1.0
29	3	26	28	3	25	1368.2675	1368.2673	0.0002	0.1
30	3	27	29	3	26	1368.5798	1368.5800	-0.0002	1.0
31	3	28	30	3	27	1368.8936	1368.8936	0.0000	1.0
32	3	29	31	3	28	1369.2080	1369.2082	-0.0002	1.0
33	3	30	32	3	29	1369.5234	1369.5236	-0.0002	1.0
34	3	31	33	3	30	1369.8396	1369.8398	-0.0002	1.0
35	3	32	34	3	31	1370.1564	1370.1566	-0.0002	1.0
36	3	33	35	3	32	1370.4736	1370.4738	-0.0002	1.0
37	3	34	36	3	33	1370.7912	1370.7913	-0.0001	1.0
38	3	35	37	3	34	1371.1080	1371.1090	-0.0010	0.1
39	3	36	38	3	35	1371.4265	1371.4266	-0.0001	1.0
40	3	37	39	3	36	1371.7437	1371.7440	-0.0003	1.0
41	3	38	40	3	37	1372.0608	1372.0610	-0.0002	0.1
42	3	39	41	3	38	1372.3770	1372.3776	-0.0006	0.1
43	3	40	42	3	39	1372.6932	1372.6934	-0.0002	1.0

44	3	41	43	3	40	1373.0085	1373.0080	0.0005	1.0
5	4	0	6	4	0	1357.7508	1357.7506	0.0002	1.0
5	4	0	4	3	0	1371.0330	1371.0329	0.0001	1.0
6	4	0	5	4	0	1361.3152	1361.3153	-0.0001	1.0
7	4	0	6	4	0	1361.6128	1361.6131	-0.0003	1.0
7	4	0	8	4	0	1357.1578	1357.1577	0.0001	1.0
8	4	0	7	4	0	1361.9110	1361.9112	-0.0002	1.0
8	4	0	9	4	0	1356.8617	1356.8615	0.0002	1.0
9	4	0	10	4	0	1356.5650	1356.5650	0.0000	1.0
9	4	0	8	4	0	1362.2092	1362.2092	0.0000	1.0
9	4	0	10	5	0	1343.6909	1343.6908	0.0001	1.0
10	4	0	9	4	0	1362.5075	1362.5072	0.0003	1.0
10	4	0	11	5	0	1343.3952	1343.3949	0.0003	1.0
11	4	0	10	4	0	1362.8059	1362.8056	0.0003	1.0
11	4	0	12	5	0	1343.0996	1343.0993	0.0003	1.0
12	4	0	13	5	0	1342.8040	1342.8039	0.0001	1.0
13	4	0	14	5	0	1342.5089	1342.5088	0.0002	1.0
14	4	0	15	5	0	1342.2141	1342.2139	0.0002	1.0
15	4	0	16	5	0	1341.9196	1341.9194	0.0002	1.0
16	4	0	17	5	0	1341.6253	1341.6252	0.0001	1.0
17	4	0	18	5	0	1341.3315	1341.3315	0.0000	1.0
19	4	0	20	5	0	1340.7457	1340.7454	0.0004	1.0
20	4	0	21	5	0	1340.4535	1340.4531	0.0004	1.0
21	4	0	20	4	0	1365.8011	1365.8002	0.0009	1.0
22	4	0	21	4	0	1366.1021	1366.1009	0.0012	1.0
23	4	20	22	4	19	1366.4005	1366.4013	-0.0008	1.0
24	4	21	23	4	20	1366.7021	1366.7023	-0.0002	1.0
25	4	22	24	4	21	1367.0035	1367.0036	-0.0001	0.1
26	4	23	27	5	22	1338.7086	1338.7085	0.0001	1.0
26	4	23	25	4	22	1367.3053	1367.3051	0.0002	1.0
27	4	24	26	4	23	1367.6068	1367.6068	0.0000	1.0
28	4	25	29	5	24	1338.1322	1338.1316	0.0006	1.0
28	4	25	27	4	24	1367.9093	1367.9087	0.0006	1.0
29	4	26	30	5	25	1337.8430	1337.8439	-0.0009	1.0
29	4	26	28	3	25	1377.8942	1377.8951	-0.0009	1.0
29	4	26	28	4	25	1368.2100	1368.2108	-0.0008	1.0
30	4	27	29	4	26	1368.5125	1368.5131	-0.0006	0.1
30	4	27	31	5	26	1337.5572	1337.5567	0.0005	1.0
30	4	27	29	3	26	1378.1368	1378.1364	0.0004	1.0
31	4	28	30	4	27	1368.8146	1368.8156	-0.0010	1.0
31	4	28	32	5	27	1337.2690	1337.2697	-0.0007	1.0
31	4	28	30	3	27	1378.3691	1378.3695	-0.0004	1.0
32	4	29	31	4	28	1369.1175	1369.1181	-0.0006	1.0
32	4	29	33	5	28	1336.9820	1336.9830	-0.0010	1.0
32	4	29	31	3	28	1378.5927	1378.5936	-0.0009	1.0
33	4	30	32	4	29	1369.4192	1369.4204	-0.0012	1.0

33	4	30	34	5	29	1336.6951	1336.6960	-0.0009	1.0
33	4	30	32	3	29	1378.8071	1378.8080	-0.0009	1.0
34	4	31	35	4	32	1349.1639	1349.1635	0.0005	1.0
34	4	31	33	4	30	1369.7211	1369.7204	0.0008	1.0
34	4	31	35	5	30	1336.4069	1336.4066	0.0004	0.1
34	4	31	33	3	30	1379.0109	1379.0101	0.0008	0.1
35	4	32	36	4	33	1348.8752	1348.8761	-0.0009	1.0
35	4	32	34	4	31	1370.0305	1370.0310	-0.0005	0.1
35	4	32	36	5	31	1336.1268	1336.1275	-0.0007	1.0
35	4	32	34	3	31	1379.2119	1379.2125	-0.0006	1.0
36	4	33	35	4	32	1370.3329	1370.3325	0.0004	1.0
36	4	33	37	5	32	1335.8391	1335.8389	0.0002	1.0
36	4	33	35	3	32	1379.3955	1379.3949	0.0006	1.0
37	4	34	36	4	33	1370.6359	1370.6354	0.0005	1.0
37	4	34	38	5	33	1335.5516	1335.5509	0.0007	1.0
37	4	34	36	3	33	1379.5681	1379.5679	0.0002	1.0
38	4	35	37	4	34	1370.9389	1370.9386	0.0003	1.0
38	4	35	39	5	34	1335.2627	1335.2623	0.0004	1.0
38	4	35	37	3	34	1379.7307	1379.7301	0.0006	1.0
39	4	36	38	4	35	1371.2423	1371.2419	0.0004	1.0
39	4	36	40	5	35	1334.9728	1334.9725	0.0003	1.0
39	4	36	38	3	35	1379.8813	1379.8814	-0.0001	1.0
40	4	37	39	4	36	1371.5458	1371.5452	0.0006	1.0
40	4	37	41	5	36	1334.6814	1334.6813	0.0001	1.0
40	4	37	39	3	36	1380.0224	1380.0220	0.0004	1.0
41	4	38	40	4	37	1371.8487	1371.8485	0.0002	1.0
41	4	38	42	5	37	1334.3874	1334.3880	-0.0006	1.0
42	4	39	41	4	38	1372.1520	1372.1517	0.0003	1.0
42	4	39	43	5	38	1334.0928	1334.0924	0.0004	1.0
42	4	39	41	3	38	1380.2718	1380.2716	0.0002	1.0
43	4	40	42	4	39	1372.4553	1372.4548	0.0005	0.1
43	4	40	44	5	39	1333.7944	1333.7938	0.0006	1.0
44	4	41	43	4	40	1372.7583	1372.7578	0.0005	1.0
44	4	41	43	3	40	1380.4823	1380.4817	0.0006	0.1
26	4	22	25	4	21	1367.3106	1367.3083	0.0023	1.0
26	4	22	27	5	23	1338.7216	1338.7194	0.0022	1.0
26	4	22	25	3	23	1377.3060	1377.3039	0.0022	1.0
27	4	23	28	4	24	1351.2346	1351.2320	0.0026	0.1
27	4	23	26	4	22	1367.6128	1367.6110	0.0018	1.0
27	4	23	28	5	24	1338.4364	1338.4345	0.0019	0.1
27	4	23	26	3	24	1377.6118	1377.6104	0.0014	1.0
28	4	24	29	4	25	1350.9368	1350.9353	0.0015	1.0
28	4	24	27	4	23	1367.9153	1367.9141	0.0012	1.0
28	4	24	29	5	25	1338.1525	1338.1512	0.0013	1.0
28	4	24	27	3	25	1377.9207	1377.9195	0.0012	1.0
29	4	25	30	4	26	1350.6398	1350.6385	0.0013	1.0

29	4	25	28	4	24	1368.2192	1368.2178	0.0015	1.0
29	4	25	30	5	26	1337.8711	1337.8697	0.0014	1.0
29	4	25	28	3	26	1378.2329	1378.2316	0.0013	1.0
31	4	27	32	4	28	1350.0434	1350.0443	-0.0009	1.0
31	4	27	30	4	26	1368.8262	1368.8266	-0.0004	0.1
31	4	27	32	5	28	1337.3137	1337.3132	0.0005	0.1
31	4	27	30	3	28	1378.8668	1378.8672	-0.0004	1.0
32	4	28	33	4	29	1349.7467	1349.7470	-0.0003	1.0
32	4	28	31	4	27	1369.1316	1369.1320	-0.0004	1.0
32	4	28	33	5	29	1337.0385	1337.0388	-0.0003	1.0
32	4	28	31	3	29	1379.1915	1379.1920	-0.0005	1.0
33	4	29	34	4	30	1349.4487	1349.4494	-0.0007	1.0
33	4	29	32	4	28	1369.4377	1369.4379	-0.0002	1.0
33	4	29	34	5	30	1336.7668	1336.7673	-0.0005	1.0
33	4	29	32	3	30	1379.5224	1379.5223	0.0001	1.0
34	4	30	33	4	29	1369.7443	1369.7447	-0.0004	1.0
34	4	30	35	5	31	1336.4991	1336.4992	-0.0001	1.0
34	4	30	33	3	31	1379.8592	1379.8589	0.0003	0.1
35	4	31	36	4	32	1348.8536	1348.8535	0.0001	1.0
35	4	31	34	4	30	1370.0514	1370.0522	-0.0008	0.1
35	4	31	36	5	32	1336.2351	1336.2349	0.0002	0.1
35	4	31	34	3	32	1380.2028	1380.2028	0.0001	1.0
36	4	32	37	4	33	1348.5552	1348.5551	0.0001	1.0
36	4	32	35	4	31	1370.3613	1370.3605	0.0008	0.1
36	4	32	37	5	33	1335.9751	1335.9749	0.0002	1.0
36	4	32	35	3	33	1380.5548	1380.5546	0.0002	0.1
37	4	33	38	4	34	1348.2563	1348.2564	-0.0001	1.0
37	4	33	36	4	32	1370.6700	1370.6697	0.0003	1.0
37	4	33	38	5	34	1335.7194	1335.7196	-0.0002	1.0
37	4	33	36	3	34	1380.9154	1380.9156	-0.0002	1.0
38	4	34	39	4	35	1347.9577	1347.9574	0.0003	1.0
38	4	34	37	4	33	1370.9805	1370.9799	0.0006	1.0
39	4	35	40	4	36	1347.6580	1347.6581	-0.0001	1.0
39	4	35	38	4	34	1371.2912	1371.2910	0.0002	0.1
40	4	36	41	4	37	1347.3580	1347.3584	-0.0004	1.0
40	4	36	39	4	35	1371.6034	1371.6032	0.0002	1.0
41	4	37	42	4	38	1347.0582	1347.0583	-0.0001	1.0
41	4	37	40	4	36	1371.9167	1371.9165	0.0002	1.0
42	4	38	43	4	39	1346.7582	1346.7580	0.0002	1.0
42	4	38	41	4	37	1372.2311	1372.2310	0.0001	1.0
43	4	39	44	4	40	1346.4572	1346.4573	-0.0001	1.0
43	4	39	42	4	38	1372.5465	1372.5465	0.0000	1.0
44	4	40	45	4	41	1346.1563	1346.1563	0.0000	1.0
44	4	40	43	4	39	1372.8623	1372.8632	-0.0009	0.1
5	5	0	6	6	0	1342.0374	1342.0373	0.0001	1.0
6	5	0	5	5	0	1361.3357	1361.3355	0.0002	1.0

6	5	0	7	5	0	1357.4747	1357.4745	0.0002	1.0
6	5	0	5	4	0	1374.2106	1374.2107	-0.0001	1.0
7	5	0	8	6	0	1341.4446	1341.4445	0.0001	1.0
7	5	0	6	5	0	1361.6334	1361.6332	0.0002	1.0
7	5	0	6	4	0	1374.5083	1374.5083	0.0000	1.0
8	5	0	9	5	0	1356.8821	1356.8818	0.0003	1.0
8	5	0	7	4	0	1374.8063	1374.8061	0.0002	1.0
9	5	0	10	5	0	1356.5857	1356.5855	0.0002	1.0
9	5	0	10	6	0	1340.8522	1340.8522	0.0000	1.0
9	5	0	8	5	0	1362.2291	1362.2291	0.0000	1.0
9	5	0	8	4	0	1375.1039	1375.1039	0.0000	1.0
10	5	0	9	5	0	1362.5273	1362.5272	0.0001	1.0
10	5	0	11	6	0	1340.5564	1340.5562	0.0002	1.0
11	5	0	10	5	0	1362.8255	1362.8254	0.0001	1.0
11	5	0	12	6	0	1340.2607	1340.2604	0.0003	1.0
11	5	0	10	4	0	1375.6996	1375.6996	0.0000	1.0
12	5	0	11	4	0	1375.9974	1375.9975	-0.0001	1.0
12	5	0	13	6	0	1339.9649	1339.9648	0.0001	1.0
13	5	0	14	6	0	1339.6693	1339.6693	0.0000	1.0
13	5	0	12	4	0	1376.2952	1376.2953	-0.0001	1.0
14	5	0	15	6	0	1339.3741	1339.3740	0.0001	1.0
14	5	0	13	4	0	1376.5931	1376.5931	0.0000	1.0
15	5	0	16	6	0	1339.0790	1339.0789	0.0001	1.0
15	5	0	14	4	0	1376.8910	1376.8909	0.0001	1.0
16	5	0	15	4	0	1377.1887	1377.1885	0.0002	1.0
16	5	0	17	6	0	1338.7841	1338.7840	0.0001	1.0
17	5	0	18	6	0	1338.4895	1338.4894	0.0001	1.0
17	5	0	16	4	0	1377.4862	1377.4860	0.0002	1.0
18	5	0	17	4	0	1377.7833	1377.7833	0.0000	1.0
19	5	0	20	6	0	1337.9010	1337.9010	0.0000	1.0
19	5	0	18	4	0	1378.0806	1378.0805	0.0002	1.0
20	5	0	21	6	0	1337.6073	1337.6073	0.0000	1.0
20	5	0	19	4	0	1378.3772	1378.3773	-0.0001	1.0
21	5	0	22	6	0	1337.3137	1337.3139	-0.0002	1.0
21	5	0	20	4	0	1378.6741	1378.6739	0.0002	1.0
22	5	0	23	6	0	1337.0210	1337.0209	0.0001	1.0
23	5	0	24	6	0	1336.7285	1336.7283	0.0002	1.0
23	5	19	22	4	18	1379.2646	1379.2645	0.0001	1.0
24	5	0	25	6	0	1336.4362	1336.4361	0.0001	1.0
25	5	0	26	6	0	1336.1446	1336.1444	0.0002	1.0
25	5	21	24	4	20	1379.8536	1379.8533	0.0003	1.0
26	5	0	27	6	0	1335.8532	1335.8532	0.0000	1.0
27	5	0	28	6	0	1335.5624	1335.5626	-0.0002	1.0
27	5	23	26	4	22	1380.4390	1380.4388	0.0002	1.0
28	5	0	29	6	0	1335.2725	1335.2725	0.0000	1.0
28	5	24	27	4	23	1380.7300	1380.7299	0.0001	1.0

29	5	0	30	6	0	1334.9831	1334.9830	0.0001	1.0
30	5	0	31	6	0	1334.6942	1334.6942	0.0000	1.0
31	5	0	32	6	0	1334.4062	1334.4061	0.0001	1.0
32	5	28	33	6	27	1334.1174	1334.1176	-0.0002	1.0
32	5	28	31	4	27	1381.8793	1381.8793	0.0000	1.0
33	5	29	34	6	28	1333.8307	1333.8307	0.0000	1.0
34	5	30	35	6	29	1333.5445	1333.5444	0.0001	1.0
35	5	31	36	6	30	1333.2589	1333.2590	-0.0001	1.0
35	5	31	34	4	30	1382.7180	1382.7181	-0.0001	1.0
36	5	32	37	6	31	1332.9743	1332.9742	0.0001	1.0
37	5	33	36	4	32	1383.2605	1383.2610	-0.0005	0.1
38	5	34	39	6	33	1332.4079	1332.4071	0.0008	1.0
39	5	35	40	6	34	1332.1248	1332.1248	0.0000	1.0
40	5	36	41	6	35	1331.8452	1331.8432	0.0020	0.1
41	5	37	42	6	36	1331.5622	1331.5623	-0.0001	1.0
42	5	38	41	4	37	1384.5328	1384.5330	-0.0002	1.0
43	5	39	42	4	38	1384.7684	1384.7681	0.0003	1.0
43	5	39	44	6	38	1331.0028	1331.0027	0.0001	1.0
23	5	18	22	4	19	1379.2669	1379.2673	-0.0004	1.0
25	5	20	24	4	21	1379.8592	1379.8588	0.0004	1.0
27	5	22	26	4	23	1380.4494	1380.4492	0.0002	1.0
28	5	23	27	4	24	1380.7441	1380.7439	0.0002	1.0
29	5	24	28	4	25	1381.0384	1381.0383	0.0001	1.0
30	5	25	29	4	26	1381.3325	1381.3326	-0.0001	1.0
30	5	25	31	6	26	1334.6942	1334.6948	-0.0006	1.0
31	5	26	30	4	27	1381.6266	1381.6266	0.0000	1.0
31	5	26	32	6	27	1334.4061	1334.4069	-0.0008	1.0
32	5	27	33	6	28	1334.1198	1334.1198	0.0000	1.0
32	5	27	31	4	28	1381.9205	1381.9206	-0.0001	1.0
33	5	28	34	6	29	1333.8335	1333.8336	-0.0001	1.0
34	5	29	35	6	30	1333.5482	1333.5484	-0.0002	1.0
34	5	29	33	4	30	1382.5087	1382.5087	0.0000	1.0
35	5	30	36	6	31	1333.2644	1333.2643	0.0001	1.0
36	5	31	37	6	32	1332.9812	1332.9813	-0.0001	1.0
38	5	33	39	6	34	1332.4188	1332.4191	-0.0003	1.0
39	5	34	40	6	35	1332.1405	1332.1402	0.0003	1.0
40	5	35	41	6	36	1331.8635	1331.8630	0.0005	1.0
41	5	36	42	6	37	1331.5878	1331.5876	0.0002	1.0
42	5	37	41	4	38	1384.8907	1384.8908	-0.0001	1.0
42	5	37	43	6	38	1331.3143	1331.3142	0.0002	1.0
43	5	38	42	4	39	1385.1971	1385.1968	0.0003	1.0
43	5	38	44	6	39	1331.0430	1331.0429	0.0001	1.0
6	6	0	7	7	0	1338.9088	1338.9088	0.0000	1.0
6	6	0	5	5	0	1377.0940	1377.0941	-0.0001	1.0
7	6	0	6	5	0	1377.3915	1377.3918	-0.0003	1.0
7	6	0	8	7	0	1338.6124	1338.6124	0.0000	1.0

7	6	0	8	6	0	1357.2032	1357.2031	0.0001	1.0
8	6	0	7	6	0	1361.9559	1361.9560	-0.0001	1.0
8	6	0	9	6	0	1356.9068	1356.9068	0.0000	1.0
8	6	0	7	5	0	1377.6896	1377.6896	0.0000	1.0
9	6	0	10	6	0	1356.6105	1356.6106	-0.0001	1.0
9	6	0	10	7	0	1338.0200	1338.0201	-0.0001	1.0
9	6	0	8	6	0	1362.2540	1362.2539	0.0001	1.0
9	6	0	8	5	0	1377.9874	1377.9875	-0.0001	1.0
10	6	0	9	6	0	1362.5520	1362.5520	0.0000	1.0
10	6	0	9	5	0	1378.2856	1378.2855	0.0001	1.0
10	6	0	11	7	0	1337.7240	1337.7240	0.0000	1.0
11	6	0	12	7	0	1337.4282	1337.4281	0.0001	1.0
11	6	0	10	5	0	1378.5835	1378.5835	0.0000	1.0
12	6	0	13	7	0	1337.1325	1337.1324	0.0001	1.0
12	6	0	11	5	0	1378.8816	1378.8816	0.0000	1.0
13	6	0	14	7	0	1336.8368	1336.8367	0.0001	1.0
13	6	0	12	5	0	1379.1800	1379.1797	0.0003	1.0
14	6	0	15	7	0	1336.5412	1336.5413	-0.0001	1.0
14	6	0	13	5	0	1379.4778	1379.4779	-0.0001	1.0
15	6	0	14	5	0	1379.7762	1379.7761	0.0002	1.0
15	6	0	16	7	0	1336.2457	1336.2459	-0.0002	1.0
16	6	0	15	5	0	1380.0742	1380.0742	0.0000	1.0
16	6	0	17	7	0	1335.9508	1335.9508	0.0000	1.0
17	6	0	18	7	0	1335.6560	1335.6558	0.0002	1.0
17	6	0	16	5	0	1380.3724	1380.3724	0.0000	1.0
18	6	0	17	5	0	1380.6706	1380.6706	0.0001	1.0
19	6	0	20	7	0	1335.0666	1335.0665	0.0001	1.0
19	6	0	18	5	0	1380.9686	1380.9686	0.0000	1.0
20	6	0	19	5	0	1381.2667	1381.2667	0.0001	1.0
20	6	0	21	7	0	1334.7723	1334.7722	0.0001	1.0
21	6	0	22	7	0	1334.4781	1334.4781	0.0000	1.0
21	6	0	20	5	0	1381.5645	1381.5646	-0.0001	1.0
22	6	0	21	5	0	1381.8622	1381.8624	-0.0002	1.0
23	6	0	24	7	0	1333.8906	1333.8907	-0.0001	1.0
23	6	0	22	5	0	1382.1602	1382.1600	0.0002	1.0
24	6	0	25	7	0	1333.5975	1333.5975	0.0001	1.0
24	6	0	23	5	0	1382.4574	1382.4575	-0.0001	1.0
25	6	0	24	5	0	1382.7549	1382.7548	0.0001	1.0
26	6	0	27	7	0	1333.0119	1333.0119	0.0000	1.0
26	6	0	25	5	0	1383.0519	1383.0519	0.0000	1.0
27	6	0	28	7	0	1332.7196	1332.7196	0.0000	1.0
27	6	0	26	5	0	1383.3488	1383.3487	0.0001	1.0
28	6	0	29	7	0	1332.4277	1332.4278	-0.0001	1.0
28	6	0	27	5	0	1383.6449	1383.6452	-0.0003	1.0
29	6	0	30	7	0	1332.1362	1332.1363	-0.0001	1.0
29	6	0	28	5	0	1383.9414	1383.9414	0.0000	1.0

30	6	0	31	7	0	1331.8452	1331.8452	0.0000	1.0
30	6	0	29	5	0	1384.2371	1384.2373	-0.0002	1.0
31	6	0	32	7	0	1331.5544	1331.5546	-0.0002	1.0
31	6	0	30	5	0	1384.5328	1384.5327	0.0001	1.0
32	6	0	33	7	0	1331.2645	1331.2645	0.0000	1.0
32	6	0	31	5	0	1384.8276	1384.8277	-0.0001	1.0
33	6	0	34	7	0	1330.9746	1330.9748	-0.0002	1.0
33	6	0	34	7	0	1330.9746	1330.9748	-0.0002	1.0
34	6	0	35	7	0	1330.6857	1330.6857	0.0000	1.0
34	6	29	33	5	28	1385.4154	1385.4148	0.0006	1.0
34	6	28	33	5	29	1385.4173	1385.4177	-0.0004	1.0
35	6	30	34	5	29	1385.7078	1385.7078	0.0000	1.0
35	6	29	34	5	30	1385.7114	1385.7116	-0.0002	1.0
36	6	0	37	7	0	1330.1091	1330.1092	-0.0001	1.0
37	6	0	38	7	0	1329.8218	1329.8219	-0.0001	1.0
38	6	0	39	7	0	1329.5351	1329.5352	-0.0001	1.0
39	6	0	40	7	0	1329.2491	1329.2492	-0.0001	1.0
40	6	0	41	7	0	1328.9639	1328.9639	0.0000	1.0
41	6	0	42	7	0	1328.6790	1328.6794	-0.0004	0.1
42	6	0	43	7	0	1328.3949	1328.3957	-0.0008	1.0
43	6	0	44	7	0	1328.1132	1328.1128	0.0004	1.0
7	7	0	6	6	0	1380.2783	1380.2784	-0.0001	1.0
7	7	0	8	8	0	1335.7869	1335.7869	0.0000	1.0
8	7	0	7	6	0	1380.5759	1380.5762	-0.0003	1.0
9	7	0	10	7	0	1356.6393	1356.6403	-0.0010	1.0
9	7	0	8	6	0	1380.8741	1380.8742	-0.0001	1.0
9	7	0	10	8	0	1335.1944	1335.1945	-0.0001	1.0
10	7	0	9	6	0	1381.1720	1381.1722	-0.0002	1.0
10	7	0	9	7	0	1362.5813	1362.5816	-0.0003	1.0
10	7	0	11	8	0	1334.8982	1334.8984	-0.0002	1.0
11	7	0	10	6	0	1381.4703	1381.4703	0.0000	1.0
11	7	0	12	8	0	1334.6024	1334.6025	-0.0001	1.0
12	7	0	11	6	0	1381.7682	1381.7685	-0.0003	1.0
12	7	0	13	8	0	1334.3066	1334.3067	-0.0001	1.0
13	7	0	14	8	0	1334.0109	1334.0110	-0.0001	1.0
13	7	0	12	6	0	1382.0665	1382.0668	-0.0003	1.0
14	7	0	15	8	0	1333.7153	1333.7154	-0.0001	1.0
14	7	0	13	6	0	1382.3649	1382.3651	-0.0002	1.0
15	7	0	16	8	0	1333.4199	1333.4200	-0.0001	1.0
15	7	0	14	6	0	1382.6634	1382.6635	-0.0001	1.0
16	7	0	17	8	0	1333.1245	1333.1247	-0.0002	1.0
16	7	0	15	6	0	1382.9618	1382.9619	-0.0001	1.0
17	7	0	18	8	0	1332.8294	1332.8296	-0.0002	1.0
17	7	0	16	6	0	1383.2605	1383.2604	0.0001	1.0
18	7	0	17	6	0	1383.5588	1383.5589	-0.0001	1.0
19	7	0	18	6	0	1383.8574	1383.8574	0.0000	1.0

19	7	0	20	8	0	1332.2397	1332.2398	-0.0001	1.0
20	7	0	19	6	0	1384.1558	1384.1559	-0.0001	1.0
20	7	0	21	8	0	1331.9451	1331.9452	-0.0001	1.0
21	7	0	20	6	0	1384.4543	1384.4545	-0.0002	1.0
21	7	0	22	8	0	1331.6506	1331.6508	-0.0002	1.0
22	7	0	21	6	0	1384.7528	1384.7530	-0.0002	1.0
22	7	0	23	8	0	1331.3565	1331.3565	0.0000	1.0
23	7	0	22	6	0	1385.0513	1385.0514	-0.0001	1.0
23	7	0	24	8	0	1331.0625	1331.0625	0.0000	1.0
24	7	0	23	6	0	1385.3499	1385.3498	0.0001	1.0
25	7	0	26	8	0	1330.4751	1330.4752	-0.0001	1.0
25	7	0	24	6	0	1385.6481	1385.6482	-0.0001	1.0
26	7	0	27	8	0	1330.1816	1330.1819	-0.0003	1.0
26	7	0	25	6	0	1385.9463	1385.9465	-0.0002	1.0
27	7	0	26	6	0	1386.2445	1386.2446	-0.0001	1.0
28	7	0	29	8	0	1329.5959	1329.5960	-0.0001	1.0
28	7	0	27	6	0	1386.5425	1386.5427	-0.0002	1.0
29	7	0	30	8	0	1329.3034	1329.3035	-0.0001	1.0
29	7	0	28	6	0	1386.8406	1386.8406	0.0000	1.0
30	7	0	29	6	0	1387.1383	1387.1383	0.0000	1.0
31	7	0	30	6	0	1387.4358	1387.4359	-0.0001	1.0
32	7	0	33	8	0	1328.4281	1328.4280	0.0001	1.0
32	7	0	31	6	0	1387.7329	1387.7333	-0.0004	1.0
33	7	0	34	8	0	1328.1368	1328.1368	0.0000	1.0
33	7	0	32	6	0	1388.0304	1388.0304	0.0000	1.0
34	7	0	35	8	0	1327.8461	1327.8460	0.0001	1.0
34	7	0	33	6	0	1388.3274	1388.3273	0.0001	1.0
35	7	0	36	8	0	1327.5556	1327.5556	0.0000	1.0
35	7	0	34	6	0	1388.6240	1388.6240	0.0000	1.0
36	7	0	37	8	0	1327.2660	1327.2657	0.0003	1.0
36	7	0	35	6	0	1388.9205	1388.9203	0.0002	1.0
37	7	0	38	8	0	1326.9764	1326.9761	0.0003	0.1
38	7	0	39	8	0	1326.6870	1326.6870	0.0000	1.0
38	7	0	37	6	0	1389.5120	1389.5120	0.0000	1.0
43	7	0	44	8	0	1325.2494	1325.2489	0.0005	1.0
43	7	0	42	6	0	1390.9858	1390.9841	0.0017	0.1
44	7	0	45	8	0	1324.9626	1324.9630	-0.0004	1.0
44	7	0	43	6	0	1391.2772	1391.2770	0.0002	1.0
8	8	0	7	7	0	1383.4657	1383.4657	0.0000	1.0
8	8	0	9	9	0	1332.6718	1332.6719	-0.0001	1.0
9	8	0	8	7	0	1383.7635	1383.7636	-0.0001	1.0
9	8	0	10	9	0	1332.3756	1332.3757	-0.0001	1.0
10	8	0	9	7	0	1384.0618	1384.0617	0.0001	1.0
10	8	0	11	9	0	1332.0796	1332.0797	-0.0001	1.0
11	8	0	10	7	0	1384.3599	1384.3599	0.0000	1.0
11	8	0	12	9	0	1331.7838	1331.7837	0.0001	1.0

12	8	0	11	7	0	1384.6580	1384.6581	-0.0001	1.0
12	8	0	13	9	0	1331.4877	1331.4879	-0.0002	1.0
13	8	0	12	7	0	1384.9564	1384.9565	-0.0001	1.0
13	8	0	14	9	0	1331.1920	1331.1922	-0.0002	1.0
14	8	0	15	9	0	1330.8964	1330.8966	-0.0002	1.0
14	8	0	13	7	0	1385.2547	1385.2549	-0.0002	1.0
15	8	0	16	9	0	1330.6011	1330.6011	0.0000	1.0
16	8	0	17	9	0	1330.3058	1330.3058	0.0000	1.0
16	8	0	15	7	0	1385.8519	1385.8520	-0.0001	1.0
17	8	0	18	9	0	1330.0105	1330.0106	-0.0001	1.0
17	8	0	16	7	0	1386.1505	1386.1507	-0.0002	1.0
18	8	0	17	7	0	1386.4492	1386.4494	-0.0002	1.0
19	8	0	20	9	0	1329.4205	1329.4206	-0.0001	1.0
19	8	0	18	7	0	1386.7481	1386.7482	-0.0001	1.0
20	8	0	19	7	0	1387.0468	1387.0470	-0.0002	1.0
20	8	0	21	9	0	1329.1258	1329.1258	0.0000	1.0
21	8	0	22	9	0	1328.8311	1328.8312	-0.0001	1.0
21	8	0	20	7	0	1387.3456	1387.3459	-0.0003	1.0
22	8	0	23	9	0	1328.5365	1328.5368	-0.0003	1.0
22	8	0	21	7	0	1387.6446	1387.6447	-0.0001	1.0
23	8	0	24	9	0	1328.2424	1328.2425	-0.0001	1.0
23	8	0	22	7	0	1387.9434	1387.9436	-0.0002	1.0
24	8	0	25	9	0	1327.9483	1327.9485	-0.0002	1.0
24	8	0	23	7	0	1388.2425	1388.2426	-0.0001	1.0
25	8	0	26	9	0	1327.6545	1327.6546	-0.0001	1.0
25	8	0	24	7	0	1388.5413	1388.5415	-0.0002	1.0
26	8	0	27	9	0	1327.3608	1327.3609	-0.0001	1.0
26	8	0	25	7	0	1388.8401	1388.8404	-0.0003	1.0
27	8	0	26	7	0	1389.1391	1389.1392	-0.0001	1.0
28	8	0	29	9	0	1326.7740	1326.7742	-0.0002	1.0
28	8	0	27	7	0	1389.4378	1389.4381	-0.0003	1.0
29	8	0	30	9	0	1326.4809	1326.4812	-0.0003	1.0
29	8	0	28	7	0	1389.7368	1389.7369	-0.0001	1.0
30	8	0	31	9	0	1326.1881	1326.1884	-0.0003	1.0
30	8	0	29	7	0	1390.0354	1390.0356	-0.0002	1.0
31	8	0	32	9	0	1325.8959	1325.8959	0.0000	1.0
31	8	0	30	7	0	1390.3341	1390.3343	-0.0002	1.0
32	8	0	33	9	0	1325.6033	1325.6036	-0.0003	1.0
32	8	0	31	7	0	1390.6327	1390.6329	-0.0002	1.0
33	8	0	32	7	0	1390.9310	1390.9314	-0.0004	1.0
33	8	0	34	9	0	1325.3114	1325.3116	-0.0002	1.0
34	8	0	35	9	0	1325.0197	1325.0200	-0.0003	1.0
34	8	0	33	7	0	1391.2296	1391.2298	-0.0002	1.0
35	8	0	34	7	0	1391.5279	1391.5280	-0.0001	1.0
35	8	0	36	9	0	1324.7284	1324.7286	-0.0002	1.0
36	8	0	35	7	0	1391.8257	1391.8261	-0.0004	1.0

37	8	0	38	9	0	1324.1463	1324.1467	-0.0004	1.0
37	8	0	36	7	0	1392.1237	1392.1241	-0.0004	1.0
38	8	0	37	7	0	1392.4216	1392.4218	-0.0002	1.0
39	8	0	40	9	0	1323.5660	1323.5662	-0.0002	1.0
40	8	0	41	9	0	1323.2763	1323.2765	-0.0002	1.0
41	8	0	42	9	0	1322.9870	1322.9872	-0.0002	1.0
42	8	0	43	9	0	1322.6981	1322.6983	-0.0002	1.0
43	8	0	44	9	0	1322.4094	1322.4098	-0.0004	1.0
44	8	0	45	9	0	1322.1215	1322.1217	-0.0002	1.0
9	9	0	8	8	0	1386.6558	1386.6556	0.0002	1.0
9	9	0	10	10	0	1329.5641	1329.5641	0.0000	1.0
10	9	0	11	10	0	1329.2680	1329.2680	0.0000	1.0
11	9	0	12	10	0	1328.9722	1328.9721	0.0001	1.0
11	9	0	10	8	0	1387.2521	1387.2520	0.0002	1.0
12	9	0	13	10	0	1328.6764	1328.6763	0.0001	1.0
12	9	0	11	8	0	1387.5504	1387.5503	0.0001	1.0
13	9	0	14	10	0	1328.3806	1328.3806	0.0000	1.0
13	9	0	12	8	0	1387.8488	1387.8487	0.0001	1.0
14	9	0	15	10	0	1328.0850	1328.0850	0.0000	1.0
14	9	0	13	8	0	1388.1472	1388.1473	-0.0001	1.0
15	9	0	16	10	0	1327.7896	1327.7895	0.0001	1.0
15	9	0	14	8	0	1388.4459	1388.4459	0.0000	1.0
16	9	0	17	10	0	1327.4941	1327.4941	0.0000	1.0
16	9	0	15	8	0	1388.7446	1388.7446	0.0000	1.0
17	9	0	18	10	0	1327.1992	1327.1989	0.0003	1.0
17	9	0	16	8	0	1389.0433	1389.0434	-0.0001	1.0
18	9	0	19	10	0	1326.9036	1326.9038	-0.0002	1.0
18	9	0	17	8	0	1389.3423	1389.3423	0.0000	1.0
19	9	0	20	10	0	1326.6087	1326.6089	-0.0002	1.0
19	9	0	18	8	0	1389.6412	1389.6413	-0.0001	1.0
20	9	0	21	10	0	1326.3141	1326.3140	0.0001	1.0
20	9	0	19	8	0	1389.9403	1389.9403	0.0000	1.0
21	9	0	22	10	0	1326.0193	1326.0194	-0.0001	1.0
21	9	0	20	8	0	1390.2394	1390.2394	0.0000	1.0
22	9	0	23	10	0	1325.7247	1325.7249	-0.0002	1.0
22	9	0	21	8	0	1390.5386	1390.5385	0.0001	1.0
23	9	0	22	8	0	1390.8378	1390.8377	0.0001	1.0
23	9	0	24	10	0	1325.4307	1325.4305	0.0002	1.0
24	9	0	23	8	0	1391.1371	1391.1370	0.0001	1.0
24	9	0	25	10	0	1325.1363	1325.1363	0.0000	1.0
25	9	0	24	8	0	1391.4364	1391.4363	0.0002	1.0
25	9	0	26	10	0	1324.8423	1324.8423	0.0001	1.0
26	9	0	27	10	0	1324.5484	1324.5484	0.0000	1.0
26	9	0	25	8	0	1391.7356	1391.7356	0.0001	1.0
27	9	0	26	8	0	1392.0346	1392.0349	-0.0003	1.0
28	9	0	27	8	0	1392.3342	1392.3342	0.0000	1.0

28	9	0	29	10	0	1323.9612	1323.9612	0.0000	1.0
29	9	0	30	10	0	1323.6679	1323.6679	0.0000	1.0
29	9	0	28	8	0	1392.6336	1392.6336	0.0000	1.0
30	9	0	31	10	0	1323.3748	1323.3749	-0.0001	1.0
30	9	0	29	8	0	1392.9329	1392.9330	-0.0001	1.0
31	9	0	32	10	0	1323.0822	1323.0820	0.0002	1.0
31	9	0	30	8	0	1393.2323	1393.2323	0.0000	1.0
32	9	0	31	8	0	1393.5318	1393.5316	0.0002	1.0
32	9	0	33	10	0	1322.7893	1322.7893	0.0000	1.0
33	9	0	34	10	0	1322.4968	1322.4969	-0.0001	1.0
33	9	0	32	8	0	1393.8309	1393.8309	0.0000	1.0
34	9	0	33	8	0	1394.1301	1394.1302	-0.0001	1.0
34	9	0	35	10	0	1322.2047	1322.2047	0.0000	1.0
35	9	0	36	10	0	1321.9125	1321.9128	-0.0003	1.0
35	9	0	34	8	0	1394.4296	1394.4294	0.0002	1.0
36	9	0	37	10	0	1321.6211	1321.6211	0.0000	1.0
36	9	0	35	8	0	1394.7286	1394.7285	0.0001	1.0
37	9	0	38	10	0	1321.3295	1321.3296	-0.0001	1.0
37	9	0	36	8	0	1395.0274	1395.0276	-0.0002	1.0
38	9	0	37	8	0	1395.3264	1395.3266	-0.0002	1.0
38	9	0	39	10	0	1321.0385	1321.0385	0.0000	1.0
38	9	0	37	9	0	1371.0493	1371.0493	0.0000	1.0
39	9	0	40	10	0	1320.7478	1320.7476	0.0002	1.0
40	9	0	41	10	0	1320.4570	1320.4570	0.0000	1.0
41	9	0	40	8	0	1396.2227	1396.2230	-0.0003	1.0
41	9	0	42	10	0	1320.1669	1320.1668	0.0002	1.0
42	9	0	41	8	0	1396.5214	1396.5215	-0.0001	1.0
43	9	0	44	10	0	1319.5871	1319.5872	-0.0001	1.0
44	9	0	45	10	0	1319.2979	1319.2979	0.0001	1.0
10	10	0	11	11	0	1326.4640	1326.4638	0.0002	1.0
11	10	0	12	11	0	1326.1681	1326.1679	0.0002	1.0
12	10	0	13	11	0	1325.8724	1325.8721	0.0003	1.0
13	10	0	14	11	0	1325.5764	1325.5764	0.0001	1.0
14	10	0	15	11	0	1325.2811	1325.2807	0.0004	1.0
15	10	0	16	11	0	1324.9855	1324.9853	0.0002	1.0
16	10	0	17	11	0	1324.6900	1324.6899	0.0001	1.0
17	10	0	18	11	0	1324.3944	1324.3946	-0.0002	1.0
18	10	0	19	11	0	1324.0996	1324.0995	0.0001	1.0
19	10	0	20	11	0	1323.8046	1323.8045	0.0001	1.0
20	10	0	21	11	0	1323.5098	1323.5096	0.0002	1.0
21	10	0	22	11	0	1323.2150	1323.2148	0.0002	1.0
22	10	0	23	11	0	1322.9203	1322.9202	0.0001	1.0
23	10	0	24	11	0	1322.6257	1322.6257	0.0000	1.0
24	10	0	25	11	0	1322.3312	1322.3313	-0.0001	1.0
25	10	0	26	11	0	1322.0371	1322.0371	0.0000	1.0
26	10	0	27	11	0	1321.7430	1321.7430	0.0000	1.0

27	10	0	28	11	0	1321.4489	1321.4490	-0.0001	1.0
28	10	0	29	11	0	1321.1550	1321.1551	-0.0001	1.0
29	10	0	30	11	0	1320.8612	1320.8613	-0.0001	1.0
30	10	0	31	11	0	1320.5676	1320.5676	0.0000	1.0
31	10	0	32	11	0	1320.2740	1320.2740	0.0000	1.0
32	10	0	33	11	0	1319.9804	1319.9803	0.0001	1.0
33	10	0	34	11	0	1319.6867	1319.6866	0.0002	1.0
33	10	0	34	10	0	1349.6798	1349.6798	0.0000	1.0
33	10	0	32	10	0	1369.5827	1369.5826	0.0001	1.0
34	10	0	35	11	0	1319.3921	1319.3925	-0.0004	1.0
34	10	0	33	9	0	1397.0241	1397.0243	-0.0002	1.0
34	10	0	35	10	0	1349.3850	1349.3849	0.0001	1.0
34	10	0	33	10	0	1369.8818	1369.8819	-0.0001	1.0
35	10	0	36	11	0	1319.0977	1319.0979	-0.0002	1.0
35	10	0	34	9	0	1397.3219	1397.3218	0.0001	1.0
35	10	0	36	10	0	1349.0898	1349.0894	0.0004	1.0
35	10	0	34	10	0	1370.1795	1370.1807	-0.0012	1.0
36	10	0	37	11	0	1318.8023	1318.8024	-0.0001	1.0
36	11	0	37	11	0	1318.8378	1318.8363	0.0015	1.0
36	10	0	35	9	0	1397.6175	1397.6182	-0.0007	1.0
36	10	0	37	10	0	1348.7926	1348.7928	-0.0002	1.0
36	10	0	35	10	0	1370.4780	1370.4784	-0.0004	1.0
37	10	0	37	11	0	1329.7915	1329.7930	-0.0015	0.1
37	11	0	38	11	0	1318.5415	1318.5396	0.0019	1.0*
37	10	0	38	11	0	1318.5039	1318.5056	-0.0017	1.0
37	10	0	36	9	0	1397.9122	1397.9130	-0.0008	1.0
37	11	0	36	9	0	1397.9490	1397.9470	0.0020	0.1*
37	10	0	38	10	0	1348.4938	1348.4949	-0.0011	1.0
37	11	0	38	10	0	1348.5302	1348.5289	0.0013	1.0*
37	10	0	36	10	0	1370.7736	1370.7747	-0.0011	1.0
37	11	0	36	10	0	1370.8097	1370.8087	0.0010	1.0*
38	10	0	38	11	0	1329.8292	1329.8289	0.0004	0.1
38	10	0	39	11	0	1318.2453	1318.2445	0.0008	1.0
38	10	0	37	9	0	1398.2438	1398.2432	0.0006	1.0
38	10	0	39	10	0	1348.2328	1348.2324	0.0004	1.0
38	11	0	39	10	0	1348.1939	1348.1954	-0.0015	1.0*
38	10	0	37	10	0	1371.1080	1371.1066	0.0014	0.1
39	10	0	39	11	0	1329.8324	1329.8321	0.0004	1.0
39	10	0	40	11	0	1317.9506	1317.9506	0.0000	1.0
39	10	0	38	9	0	1398.5411	1398.5405	0.0006	1.0
39	10	0	40	10	0	1347.9374	1347.9371	0.0003	1.0
39	10	0	38	10	0	1371.4064	1371.4056	0.0008	0.1
40	10	0	40	11	0	1329.8363	1329.8363	0.0000	1.0
40	10	0	41	11	0	1317.6571	1317.6578	-0.0007	1.0
40	10	0	39	9	0	1398.8384	1398.8385	-0.0001	1.0
41	10	0	41	11	0	1329.8414	1329.8413	0.0001	1.0

41	10	0	42	11	0	1317.3657	1317.3658	-0.0001	1.0
41	10	0	40	9	0	1399.1370	1399.1369	0.0001	1.0
42	10	0	42	11	0	1329.8470	1329.8469	0.0001	1.0
42	10	0	43	11	0	1317.0742	1317.0743	-0.0001	1.0
42	10	0	41	9	0	1399.4358	1399.4357	0.0001	0.1
43	10	0	43	11	0	1329.8531	1329.8529	0.0002	1.0
43	10	0	44	11	0	1316.7831	1316.7834	-0.0003	1.0
43	10	0	42	9	0	1399.7343	1399.7346	-0.0003	0.1
44	10	0	44	11	0	1329.8595	1329.8595	0.0000	1.0
44	10	0	45	11	0	1316.4920	1316.4928	-0.0008	0.1
11	11	0	10	10	0	1393.0430	1393.0427	0.0004	1.0
11	11	0	12	12	0	1323.3726	1323.3715	0.0011	1.0
12	11	0	13	12	0	1323.0761	1323.0758	0.0003	1.0
12	11	0	11	10	0	1393.3416	1393.3413	0.0003	1.0
13	11	0	14	12	0	1322.7807	1322.7803	0.0004	1.0
13	11	0	12	10	0	1393.6403	1393.6400	0.0003	1.0
14	11	0	13	10	0	1393.9392	1393.9389	0.0003	1.0
14	11	0	15	12	0	1322.4852	1322.4849	0.0004	1.0
15	11	0	14	10	0	1394.2381	1394.2379	0.0003	1.0
15	11	0	16	12	0	1322.1898	1322.1896	0.0002	1.0
16	11	0	17	12	0	1321.8947	1321.8944	0.0003	1.0
16	11	0	15	10	0	1394.5372	1394.5369	0.0003	1.0
17	11	0	18	12	0	1321.5996	1321.5994	0.0003	1.0
17	11	0	16	10	0	1394.8364	1394.8361	0.0003	1.0
18	11	0	17	10	0	1395.1357	1395.1355	0.0002	1.0
18	11	0	19	12	0	1321.3047	1321.3045	0.0003	1.0
19	11	0	18	10	0	1395.4349	1395.4349	0.0000	1.0
19	11	0	20	12	0	1321.0099	1321.0097	0.0002	1.0
20	11	0	19	10	0	1395.7345	1395.7344	0.0001	1.0
20	11	0	21	12	0	1320.7151	1320.7150	0.0001	1.0
21	11	0	20	10	0	1396.0343	1396.0340	0.0003	1.0
21	11	0	22	12	0	1320.4206	1320.4205	0.0001	1.0
22	11	0	21	10	0	1396.3340	1396.3337	0.0003	1.0
22	11	0	23	12	0	1320.1264	1320.1262	0.0002	1.0
23	11	0	22	10	0	1396.6336	1396.6336	0.0001	1.0
23	11	0	24	12	0	1319.8320	1319.8320	0.0001	1.0
24	11	0	23	10	0	1396.9337	1396.9334	0.0003	1.0
24	11	0	25	12	0	1319.5380	1319.5379	0.0001	1.0
25	11	0	24	10	0	1397.2334	1397.2334	0.0000	1.0
25	11	0	26	12	0	1319.2440	1319.2440	0.0001	1.0
26	11	0	25	10	0	1397.5335	1397.5335	0.0001	1.0
26	11	0	27	12	0	1318.9501	1318.9502	-0.0001	1.0
27	11	0	28	12	0	1318.6568	1318.6566	0.0002	0.1
27	11	0	26	10	0	1397.8335	1397.8336	-0.0001	1.0
28	11	0	29	12	0	1318.3631	1318.3631	0.0000	1.0
28	11	0	27	10	0	1398.1339	1398.1338	0.0002	1.0

29	11	0	30	12	0	1318.0698	1318.0698	0.0000	1.0
29	11	0	28	10	0	1398.4341	1398.4340	0.0001	1.0
30	11	0	31	12	0	1317.7768	1317.7767	0.0002	1.0
30	11	0	29	10	0	1398.7345	1398.7343	0.0002	0.1
31	11	0	32	12	0	1317.4834	1317.4837	-0.0003	1.0
31	11	0	30	10	0	1399.0342	1399.0346	-0.0004	1.0
32	11	0	33	12	0	1317.1912	1317.1909	0.0003	0.1
32	11	0	31	10	0	1399.3351	1399.3350	0.0001	1.0
33	11	0	34	12	0	1316.8983	1316.8982	0.0001	0.1
33	11	0	32	10	0	1399.6355	1399.6354	0.0001	1.0
34	11	0	35	12	0	1316.6059	1316.6058	0.0001	1.0
34	11	0	33	10	0	1399.9360	1399.9359	0.0002	1.0
35	11	0	36	12	0	1316.3133	1316.3135	-0.0002	1.0
35	11	0	34	10	0	1400.2360	1400.2363	-0.0003	1.0
36	11	0	37	12	0	1316.0211	1316.0214	-0.0003	1.0
36	11	0	35	10	0	1400.5367	1400.5368	-0.0001	1.0
37	11	0	38	12	0	1315.7285	1315.7295	-0.0010	0.1
37	11	0	36	10	0	1400.8379	1400.8373	0.0006	0.1
38	11	0	39	12	0	1315.4379	1315.4378	0.0001	1.0
38	11	0	37	10	0	1401.1378	1401.1378	0.0001	1.0
39	11	0	40	12	0	1315.1462	1315.1463	-0.0001	1.0
40	11	0	41	12	0	1314.8552	1314.8550	0.0002	1.0
40	11	0	39	10	0	1401.7397	1401.7387	0.0010	1.0
41	11	0	42	12	0	1314.5640	1314.5639	0.0002	1.0
41	11	0	40	10	0	1402.0384	1402.0391	-0.0007	1.0
42	11	0	43	12	0	1314.2728	1314.2730	-0.0002	1.0
43	11	0	44	12	0	1313.9820	1313.9823	-0.0003	1.0
43	11	0	42	10	0	1402.6381	1402.6399	-0.0018	0.1
44	11	0	45	12	0	1313.6915	1313.6918	-0.0003	1.0
44	11	0	43	10	0	1402.9406	1402.9402	0.0004	1.0
12	12	0	11	11	0	1396.2475	1396.2475	0.0000	1.0
12	12	0	13	13	0	1320.2954	1320.2956	-0.0002	1.0
13	12	0	12	11	0	1396.5470	1396.5471	-0.0001	1.0
13	12	0	14	13	0	1320.0007	1320.0007	0.0000	1.0
14	12	0	13	11	0	1396.8468	1396.8468	0.0001	1.0
14	12	0	15	13	0	1319.7061	1319.7061	0.0000	1.0
15	12	0	14	11	0	1397.1466	1397.1467	-0.0001	1.0
15	12	0	16	13	0	1319.4115	1319.4116	-0.0001	1.0
16	12	0	15	11	0	1397.4467	1397.4467	0.0000	1.0
16	12	0	17	13	0	1319.1173	1319.1174	-0.0001	1.0
17	12	0	16	11	0	1397.7471	1397.7470	0.0001	1.0
17	12	0	18	13	0	1318.8234	1318.8233	0.0001	1.0
18	12	0	19	13	0	1318.5295	1318.5295	0.0001	1.0
18	12	0	17	11	0	1398.0472	1398.0474	-0.0002	1.0
19	12	0	20	13	0	1318.2358	1318.2358	0.0000	1.0
19	12	0	18	11	0	1398.3482	1398.3481	0.0001	1.0

20	12	0	21	13	0	1317.9424	1317.9424	0.0000	1.0
20	12	0	19	11	0	1398.6492	1398.6489	0.0003	0.1
21	12	0	22	13	0	1317.6491	1317.6492	-0.0001	1.0
21	12	0	20	11	0	1398.9500	1398.9500	0.0000	1.0
22	12	0	23	13	0	1317.3561	1317.3562	-0.0001	1.0
22	12	0	21	11	0	1399.2513	1399.2512	0.0001	1.0
23	12	0	24	13	0	1317.0635	1317.0635	0.0000	1.0
23	12	0	22	11	0	1399.5527	1399.5527	0.0000	1.0
24	12	0	24	13	0	1324.1968	1324.1969	-0.0001	1.0
24	12	0	25	13	0	1316.7712	1316.7710	0.0002	1.0
24	12	0	24	11	0	1392.7254	1392.7255	-0.0001	1.0
24	12	0	23	11	0	1399.8545	1399.8543	0.0002	1.0
25	12	0	25	13	0	1324.2021	1324.2018	0.0003	1.0
25	12	0	26	13	0	1316.4788	1316.4789	-0.0001	1.0
25	12	0	25	11	0	1392.7303	1392.7305	-0.0002	1.0
25	12	0	24	11	0	1400.1563	1400.1563	0.0000	1.0
26	12	0	26	13	0	1324.2072	1324.2069	0.0003	1.0
26	12	0	27	13	0	1316.1871	1316.1871	0.0001	1.0
26	12	0	26	11	0	1392.7359	1392.7356	0.0003	1.0
26	12	0	25	11	0	1400.4592	1400.4585	0.0007	1.0
27	12	0	27	13	0	1324.2125	1324.2125	0.0000	1.0
27	12	0	28	13	0	1315.8960	1315.8956	0.0004	1.0
27	12	0	27	11	0	1392.7411	1392.7411	0.0000	1.0
27	12	0	26	11	0	1400.7613	1400.7610	0.0003	1.0
28	12	0	28	13	0	1324.2185	1324.2185	0.0000	1.0
28	12	0	29	13	0	1315.6050	1315.6047	0.0003	1.0
28	12	0	28	11	0	1392.7471	1392.7470	0.0001	1.0
28	12	0	27	11	0	1401.0642	1401.0640	0.0002	1.0
29	12	0	29	13	0	1324.2254	1324.2252	0.0003	1.0
29	12	0	30	13	0	1315.3146	1315.3144	0.0002	1.0
29	12	0	29	11	0	1392.7542	1392.7535	0.0007	1.0
29	12	0	28	11	0	1401.3685	1401.3675	0.0010	1.0
30	12	0	30	13	0	1324.2322	1324.2326	-0.0004	1.0
30	12	0	31	13	0	1315.0249	1315.0249	0.0000	1.0
30	12	0	30	11	0	1392.7604	1392.7607	-0.0003	1.0
30	12	0	29	11	0	1401.6718	1401.6718	0.0001	1.0
31	12	0	32	13	0	1314.7364	1314.7367	-0.0003	1.0
31	12	0	31	11	0	1392.7684	1392.7691	-0.0007	1.0
31	12	0	30	11	0	1401.9770	1401.9771	-0.0001	1.0
32	12	0	33	13	0	1314.4499	1314.4501	-0.0002	1.0
32	12	0	32	11	0	1392.7789	1392.7791	-0.0002	1.0
32	12	0	31	11	0	1402.2838	1402.2842	-0.0004	1.0
33	12	0	34	13	0	1314.1660	1314.1659	0.0001	1.0
33	12	0	33	11	0	1392.7921	1392.7912	0.0009	1.0
33	12	0	32	11	0	1402.5936	1402.5934	0.0003	1.0
13	13	0	12	12	0	1399.4406	1399.4419	-0.0013	1.0

13	13	0	14	14	0	1317.2144	1317.2159	-0.0015	1.0
14	13	0	13	12	0	1399.7378	1399.7389	-0.0011	1.0
14	13	0	15	14	0	1316.9171	1316.9185	-0.0014	1.0
15	13	0	14	12	0	1400.0344	1400.0359	-0.0015	0.1
15	13	0	16	14	0	1316.6201	1316.6210	-0.0009	1.0
16	13	0	15	12	0	1400.3326	1400.3328	-0.0002	1.0
16	13	0	17	14	0	1316.3228	1316.3235	-0.0007	1.0
17	13	0	18	14	0	1316.0254	1316.0261	-0.0007	1.0
17	13	0	16	12	0	1400.6295	1400.6297	-0.0002	1.0
18	13	0	19	14	0	1315.7285	1315.7286	-0.0001	1.0
19	13	0	20	14	0	1315.4306	1315.4311	-0.0005	1.0
19	13	0	18	12	0	1401.2230	1401.2235	-0.0005	1.0
20	13	0	21	14	0	1315.1332	1315.1335	-0.0003	1.0
20	13	0	19	12	0	1401.5202	1401.5204	-0.0002	1.0
21	13	0	22	14	0	1314.8357	1314.8360	-0.0003	1.0
21	13	0	20	12	0	1401.8172	1401.8172	0.0000	1.0
22	13	0	23	14	0	1314.5384	1314.5385	-0.0001	1.0
22	13	0	21	12	0	1402.1138	1402.1140	-0.0002	1.0
23	13	0	24	14	0	1314.2409	1314.2409	0.0000	1.0
23	13	0	22	12	0	1402.4108	1402.4107	0.0001	1.0
24	13	0	25	14	0	1313.9438	1313.9434	0.0004	1.0
24	13	0	23	12	0	1402.7083	1402.7075	0.0008	0.1
25	13	0	26	14	0	1313.6468	1313.6459	0.0010	1.0
25	13	0	24	12	0	1403.0056	1403.0042	0.0015	1.0
14	14	0	15	15	0	1314.1549	1314.1549	0.0000	1.0
14	14	0	13	13	0	1402.6482	1402.6476	0.0006	1.0
15	14	0	14	14	0	1364.4230	1364.4239	-0.0009	1.0
15	14	0	16	15	0	1313.8588	1313.8586	0.0002	1.0
15	14	0	14	13	0	1402.9463	1402.9458	0.0005	1.0
16	14	0	17	15	0	1313.5625	1313.5624	0.0001	1.0
17	14	0	18	15	0	1313.2665	1313.2662	0.0003	1.0
18	14	0	19	15	0	1312.9702	1312.9701	0.0001	1.0
19	14	0	20	15	0	1312.6741	1312.6741	0.0000	1.0
20	14	0	21	15	0	1312.3783	1312.3781	0.0002	1.0
21	14	0	22	15	0	1312.0824	1312.0822	0.0002	1.0
22	14	0	23	15	0	1311.7867	1311.7864	0.0003	1.0
23	14	0	24	15	0	1311.4911	1311.4907	0.0004	1.0
24	14	0	25	15	0	1311.1952	1311.1950	0.0002	1.0
26	14	0	27	15	0	1310.6040	1310.6040	0.0000	1.0

Table A-13. Observed and calculated (Fit A) transitions of acrolein in the $7^1 \leftarrow 0$ fundamental band (values in cm^{-1}).

*These perturbing state transitions are assigned to the $13^2 18^5$ state.

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
2	0	2	3	0	3	1419.1998	1419.2000	-0.0002	1.0
3	0	3	4	0	4	1418.9032	1418.9032	0.0000	1.0
3	0	3	2	0	2	1420.9803	1420.9804	-0.0001	1.0
4	0	4	5	0	5	1418.6066	1418.6067	-0.0001	1.0
4	0	4	3	0	3	1421.2760	1421.2761	-0.0001	1.0
5	0	5	6	0	6	1418.3104	1418.3104	0.0000	1.0
5	0	5	4	0	4	1421.5711	1421.5712	-0.0001	1.0
6	0	6	5	0	5	1421.8656	1421.8657	-0.0001	1.0
7	0	7	6	0	6	1422.1591	1422.1593	-0.0002	1.0
8	0	8	7	0	7	1422.4520	1422.4521	-0.0001	1.0
9	0	9	8	0	8	1422.7439	1422.7438	0.0001	1.0
10	0	10	9	0	9	1423.0343	1423.0345	-0.0002	1.0
11	0	11	10	0	10	1423.3241	1423.3240	0.0001	1.0
11	0	11	12	0	12	1416.5446	1416.5447	-0.0001	1.0
12	0	12	11	0	11	1423.6122	1423.6122	0.0000	1.0
13	0	13	12	0	12	1423.8991	1423.8992	-0.0001	1.0
14	0	14	13	0	13	1424.1848	1424.1848	0.0000	1.0
14	0	14	15	0	15	1415.6715	1415.6714	0.0001	1.0
15	0	15	16	0	16	1415.3817	1415.3818	-0.0001	1.0
16	0	16	17	0	17	1415.0927	1415.0927	0.0000	1.0
16	0	16	15	0	15	1424.7518	1424.7521	-0.0003	1.0
17	0	17	18	0	18	1414.8038	1414.8042	-0.0004	1.0
17	0	17	16	0	16	1425.0338	1425.0338	0.0000	1.0
18	0	18	19	0	19	1414.5158	1414.5161	-0.0003	1.0
18	0	18	17	0	17	1425.3143	1425.3143	0.0000	1.0
19	0	19	20	0	20	1414.2285	1414.2283	0.0002	1.0
19	0	19	18	0	18	1425.5940	1425.5938	0.0002	1.0
20	0	20	21	0	21	1413.9405	1413.9408	-0.0003	1.0
20	0	20	19	0	19	1425.8724	1425.8723	0.0001	1.0
21	0	21	22	0	22	1413.6533	1413.6533	0.0000	1.0
21	0	21	20	0	20	1426.1499	1426.1498	0.0001	1.0
22	0	22	21	0	21	1426.4269	1426.4266	0.0003	1.0
22	0	22	23	0	23	1413.3659	1413.3659	0.0000	1.0
23	0	23	22	0	22	1426.7023	1426.7028	-0.0005	1.0
23	0	23	24	0	24	1413.0783	1413.0784	-0.0001	1.0
24	0	24	23	0	23	1426.9782	1426.9783	-0.0001	1.0
24	0	24	25	0	25	1412.7906	1412.7907	-0.0001	1.0
25	0	25	24	0	24	1427.2541	1427.2534	0.0007	1.0
25	0	25	26	0	26	1412.5030	1412.5029	0.0001	1.0
26	0	26	25	0	25	1427.5295	1427.5280	0.0015	1.0

26	0	26	27	0	27	1412.2150	1412.2147	0.0003	1.0
27	0	27	26	0	26	1427.8021	1427.8023	-0.0002	1.0
27	0	27	28	0	28	1411.9265	1411.9263	0.0002	1.0
28	0	28	27	0	27	1428.0761	1428.0763	-0.0002	1.0
28	0	28	29	0	29	1411.6377	1411.6376	0.0002	1.0
29	0	29	28	0	28	1428.3502	1428.3500	0.0002	1.0
29	0	29	30	0	30	1411.3486	1411.3485	0.0002	1.0
30	0	30	29	0	29	1428.6234	1428.6235	-0.0001	1.0
30	0	30	31	0	31	1411.0589	1411.0590	-0.0001	0.1
31	0	31	30	0	30	1428.8963	1428.8967	-0.0004	1.0
31	0	31	32	0	32	1410.7692	1410.7692	0.0001	1.0
32	0	32	31	0	31	1429.1697	1429.1697	0.0000	1.0
32	0	32	33	0	33	1410.4784	1410.4790	-0.0006	1.0
33	0	33	32	0	32	1429.4434	1429.4425	0.0009	1.0
33	0	33	34	0	34	1410.1888	1410.1884	0.0004	1.0
34	0	34	33	0	33	1429.7153	1429.7151	0.0002	1.0
34	0	34	35	0	35	1409.8973	1409.8975	-0.0002	1.0
35	0	35	34	0	34	1429.9873	1429.9875	-0.0002	1.0
35	0	35	36	0	36	1409.6060	1409.6062	-0.0002	0.1
36	0	36	35	0	35	1430.2589	1430.2596	-0.0007	1.0
36	0	36	37	0	37	1409.3146	1409.3146	0.0001	1.0
37	0	37	36	0	36	1430.5316	1430.5316	0.0001	1.0
37	0	37	38	0	38	1409.0233	1409.0226	0.0007	1.0
38	0	38	37	0	37	1430.8029	1430.8032	-0.0003	1.0
38	0	38	39	0	39	1408.7302	1408.7303	-0.0001	1.0
39	0	39	38	0	38	1431.0745	1431.0747	-0.0002	1.0
39	0	39	40	0	40	1408.4377	1408.4377	0.0000	1.0
40	0	40	39	0	39	1431.3459	1431.3459	0.0000	1.0
40	0	40	41	0	41	1408.1446	1408.1447	-0.0001	1.0
41	0	41	40	0	40	1431.6166	1431.6168	-0.0002	1.0
41	0	41	42	0	42	1407.8517	1407.8515	0.0002	0.1
42	0	42	41	0	41	1431.8875	1431.8875	0.0000	1.0
42	0	42	43	0	43	1407.5574	1407.5579	-0.0005	0.1
43	0	43	42	0	42	1432.1580	1432.1579	0.0001	1.0
43	0	43	44	0	44	1407.2646	1407.2641	0.0005	0.1
2	1	2	3	1	3	1419.2230	1419.2233	-0.0003	1.0
3	1	3	4	1	4	1418.9326	1418.9328	-0.0002	1.0
3	1	3	2	1	2	1420.9625	1420.9624	0.0001	1.0
4	1	4	5	1	5	1418.6421	1418.6421	0.0000	1.0
4	1	4	3	1	3	1421.2515	1421.2514	0.0001	1.0
5	1	5	6	1	6	1418.3518	1418.3514	0.0004	1.0
5	1	5	4	1	4	1421.5400	1421.5400	0.0000	1.0
6	1	6	5	1	5	1421.8281	1421.8283	-0.0002	1.0
7	1	7	6	1	6	1422.1163	1422.1162	0.0001	1.0
8	1	8	7	1	7	1422.4037	1422.4037	0.0000	1.0
9	1	9	8	1	8	1422.6908	1422.6908	0.0000	1.0

10	1	10	9	1	9	1422.9774	1422.9774	0.0000	1.0
10	1	10	11	1	11	1416.8968	1416.8969	-0.0001	1.0
11	1	11	10	1	10	1423.2636	1423.2636	0.0000	1.0
11	1	11	12	1	12	1416.6060	1416.6059	0.0001	1.0
12	1	12	11	1	11	1423.5497	1423.5493	0.0004	1.0
12	1	12	13	1	13	1416.3148	1416.3149	-0.0001	1.0
13	1	13	12	1	12	1423.8345	1423.8345	0.0001	1.0
13	1	13	14	1	14	1416.0238	1416.0239	-0.0001	1.0
14	1	14	13	1	13	1424.1190	1424.1191	-0.0001	1.0
14	1	14	15	1	15	1415.7332	1415.7330	0.0002	0.1
15	1	15	16	1	16	1415.4413	1415.4421	-0.0008	1.0
15	1	15	14	1	14	1424.4032	1424.4033	-0.0001	1.0
16	1	16	17	1	17	1415.1513	1415.1511	0.0002	1.0
16	1	16	15	1	15	1424.6867	1424.6869	-0.0002	1.0
17	1	17	18	1	18	1414.8603	1414.8602	0.0001	1.0
17	1	17	16	1	16	1424.9697	1424.9699	-0.0002	1.0
18	1	18	17	1	17	1425.2523	1425.2524	-0.0001	1.0
18	1	18	19	1	19	1414.5693	1414.5693	0.0000	1.0
19	1	19	18	1	18	1425.5345	1425.5344	0.0001	1.0
19	1	19	20	1	20	1414.2783	1414.2784	-0.0001	1.0
20	1	20	19	1	19	1425.8152	1425.8158	-0.0006	1.0
20	1	20	21	1	21	1413.9874	1413.9875	-0.0001	1.0
21	1	21	20	1	20	1426.0966	1426.0967	-0.0001	1.0
21	1	21	22	1	22	1413.6964	1413.6965	-0.0001	1.0
22	1	22	21	1	21	1426.3770	1426.3770	0.0000	1.0
22	1	22	23	1	23	1413.4056	1413.4055	0.0001	1.0
23	1	23	22	1	22	1426.6566	1426.6568	-0.0002	1.0
23	1	23	24	1	24	1413.1145	1413.1145	0.0000	1.0
24	1	24	23	1	23	1426.9358	1426.9360	-0.0002	1.0
24	1	24	25	1	25	1412.8234	1412.8234	0.0000	1.0
25	1	25	24	1	24	1427.2146	1427.2147	-0.0001	1.0
25	1	25	26	1	26	1412.5329	1412.5323	0.0006	1.0
26	1	26	25	1	25	1427.4930	1427.4929	0.0001	1.0
26	1	26	27	1	27	1412.2415	1412.2411	0.0004	1.0
27	1	27	26	1	26	1427.7706	1427.7707	-0.0001	1.0
27	1	27	28	1	28	1411.9497	1411.9497	0.0000	1.0
28	1	28	27	1	27	1428.0479	1428.0479	0.0000	1.0
28	1	28	29	1	29	1411.6578	1411.6583	-0.0005	1.0
29	1	29	28	1	28	1428.3243	1428.3246	-0.0003	1.0
29	1	29	30	1	30	1411.3663	1411.3668	-0.0005	1.0
30	1	30	29	1	29	1428.6006	1428.6009	-0.0003	1.0
30	1	30	31	1	31	1411.0749	1411.0751	-0.0002	1.0
31	1	31	30	1	30	1428.8768	1428.8767	0.0001	1.0
31	1	31	32	1	32	1410.7840	1410.7832	0.0008	1.0
32	1	32	31	1	31	1429.1520	1429.1520	0.0000	0.1
32	1	32	33	1	33	1410.4911	1410.4912	-0.0001	1.0

33	1	33	32	1	32	1429.4264	1429.4269	-0.0005	1.0
33	1	33	34	1	34	1410.1988	1410.1991	-0.0003	1.0
34	1	34	33	1	33	1429.7019	1429.7014	0.0005	0.1
34	1	34	35	1	35	1409.9066	1409.9067	-0.0001	1.0
35	1	35	34	1	34	1429.9759	1429.9755	0.0004	1.0
35	1	35	36	1	36	1409.6144	1409.6142	0.0002	1.0
36	1	36	35	1	35	1430.2492	1430.2492	0.0000	1.0
36	1	36	37	1	37	1409.3207	1409.3215	-0.0008	0.1
37	1	37	36	1	36	1430.5224	1430.5225	-0.0001	1.0
37	1	37	38	1	38	1409.0286	1409.0286	0.0000	1.0
38	1	38	37	1	37	1430.7956	1430.7953	0.0003	0.1
38	1	38	39	1	39	1408.7354	1408.7354	0.0000	1.0
39	1	39	38	1	38	1431.0677	1431.0678	-0.0001	1.0
39	1	39	40	1	40	1408.4421	1408.4421	0.0000	1.0
40	1	40	39	1	39	1431.3398	1431.3399	-0.0001	1.0
40	1	40	41	1	41	1408.1483	1408.1485	-0.0002	1.0
41	1	41	40	1	40	1431.6116	1431.6117	-0.0001	1.0
41	1	41	42	1	42	1407.8542	1407.8547	-0.0005	1.0
42	1	42	41	1	41	1431.8832	1431.8831	0.0001	1.0
42	1	42	43	1	43	1407.5604	1407.5607	-0.0003	0.1
43	1	43	42	1	42	1432.1544	1432.1541	0.0003	1.0
43	1	43	44	1	44	1407.2656	1407.2664	-0.0008	0.1
2	1	1	3	1	2	1419.1820	1419.1820	0.0000	1.0
3	1	2	4	1	3	1418.8779	1418.8780	-0.0001	1.0
3	1	2	2	1	1	1421.0049	1421.0050	-0.0001	1.0
4	1	3	5	1	4	1418.5739	1418.5740	-0.0001	1.0
4	1	3	3	1	2	1421.3084	1421.3084	0.0000	1.0
5	1	4	6	1	5	1418.2700	1418.2701	-0.0001	1.0
5	1	4	4	1	3	1421.6116	1421.6116	0.0000	1.0
6	1	5	5	1	4	1421.9151	1421.9147	0.0005	1.0
7	1	6	6	1	5	1422.2176	1422.2174	0.0002	1.0
8	1	7	7	1	6	1422.5197	1422.5199	-0.0002	1.0
8	1	7	9	1	8	1417.3589	1417.3589	0.0000	1.0
9	1	8	10	1	9	1417.0554	1417.0555	-0.0001	1.0
11	1	10	12	1	11	1416.4491	1416.4493	-0.0002	1.0
12	1	11	11	1	10	1423.7260	1423.7260	0.0000	1.0
12	1	11	13	1	12	1416.1466	1416.1465	0.0001	1.0
13	1	12	12	1	11	1424.0264	1424.0264	0.0000	1.0
13	1	12	14	1	13	1415.8443	1415.8441	0.0002	1.0
14	1	13	13	1	12	1424.3261	1424.3263	-0.0002	1.0
14	1	13	15	1	14	1415.5420	1415.5420	0.0000	1.0
15	1	14	14	1	13	1424.6255	1424.6255	0.0000	1.0
15	1	14	16	1	15	1415.2404	1415.2403	0.0001	1.0
16	1	15	15	1	14	1424.9237	1424.9241	-0.0004	1.0
16	1	15	17	1	16	1414.9388	1414.9390	-0.0002	1.0
17	1	16	16	1	15	1425.2220	1425.2219	0.0001	1.0

17	1	16	18	1	17	1414.6381	1414.6382	-0.0001	1.0
18	1	17	17	1	16	1425.5189	1425.5189	0.0000	1.0
18	1	17	19	1	18	1414.3377	1414.3379	-0.0002	0.1
19	1	18	18	1	17	1425.8152	1425.8150	0.0002	1.0
19	1	18	20	1	19	1414.0380	1414.0382	-0.0002	1.0
20	1	19	21	1	20	1413.7388	1413.7390	-0.0002	1.0
21	1	20	20	1	19	1426.4044	1426.4043	0.0001	1.0
21	1	20	22	1	21	1413.4394	1413.4405	-0.0011	1.0
22	1	21	21	1	20	1426.6973	1426.6973	0.0000	1.0
22	1	21	23	1	22	1413.1425	1413.1427	-0.0002	1.0
23	1	22	22	1	21	1426.9890	1426.9891	-0.0001	1.0
23	1	22	24	1	23	1412.8458	1412.8457	0.0001	1.0
24	1	23	23	1	22	1427.2799	1427.2796	0.0003	1.0
24	1	23	25	1	24	1412.5493	1412.5493	0.0000	1.0
25	1	24	24	1	23	1427.5686	1427.5688	-0.0002	1.0
25	1	24	26	1	25	1412.2535	1412.2538	-0.0003	1.0
26	1	25	25	1	24	1427.8569	1427.8576	-0.0007	0.1
26	1	25	27	1	26	1411.9591	1411.9601	-0.0010	0.1
27	1	26	26	1	25	1428.1429	1428.1433	-0.0004	0.1
27	1	26	28	1	27	1411.6653	1411.6655	-0.0002	1.0
28	1	27	27	1	26	1428.4276	1428.4281	-0.0005	1.0
28	1	27	29	1	28	1411.3715	1411.3723	-0.0008	1.0
29	1	28	28	1	27	1428.7108	1428.7114	-0.0006	1.0
29	1	28	30	1	29	1411.0793	1411.0800	-0.0007	1.0
30	1	29	29	1	28	1428.9929	1428.9932	-0.0003	1.0
30	1	29	31	1	30	1410.7875	1410.7883	-0.0008	1.0
31	1	30	30	1	29	1429.2733	1429.2734	-0.0001	1.0
31	1	30	32	1	31	1410.4973	1410.4973	0.0000	1.0
32	1	31	31	1	30	1429.5517	1429.5523	-0.0006	1.0
32	1	31	33	1	32	1410.2067	1410.2069	-0.0002	1.0
33	1	32	32	1	31	1429.8295	1429.8297	-0.0002	1.0
33	1	32	34	1	33	1409.9171	1409.9170	0.0001	1.0
34	1	33	33	1	32	1430.1055	1430.1057	-0.0002	1.0
34	1	33	35	1	34	1409.6276	1409.6275	0.0001	1.0
35	1	34	34	1	33	1430.3803	1430.3805	-0.0002	1.0
35	1	34	36	1	35	1409.3383	1409.3383	0.0000	1.0
36	1	35	35	1	34	1430.6541	1430.6542	-0.0001	1.0
36	1	35	37	1	36	1409.0491	1409.0493	-0.0002	1.0
37	1	36	36	1	35	1430.9271	1430.9268	0.0003	1.0
37	1	36	38	1	37	1408.7606	1408.7603	0.0003	1.0
38	1	37	37	1	36	1431.1987	1431.1986	0.0002	1.0
38	1	37	39	1	38	1408.4713	1408.4713	0.0000	1.0
39	1	38	38	1	37	1431.4696	1431.4695	0.0001	1.0
39	1	38	40	1	39	1408.1814	1408.1822	-0.0008	1.0
40	1	39	39	1	38	1431.7397	1431.7397	0.0000	1.0
40	1	39	41	1	40	1407.8927	1407.8928	-0.0001	1.0

41	1	40	40	1	39	1432.0092	1432.0093	-0.0001	1.0
41	1	40	42	1	41	1407.6031	1407.6031	0.0000	1.0
42	1	41	41	1	40	1432.2781	1432.2783	-0.0002	1.0
42	1	41	43	1	42	1407.3133	1407.3131	0.0002	1.0
43	1	42	42	1	41	1432.5469	1432.5469	0.0001	1.0
43	1	42	44	1	43	1407.0224	1407.0225	-0.0001	1.0
2	2	0	3	2	0	1419.2112	1419.2112	0.0000	1.0
3	2	0	4	2	0	1418.9136	1418.9136	0.0000	1.0
3	2	0	2	2	0	1420.9928	1420.9929	-0.0001	1.0
4	2	0	3	2	0	1421.2895	1421.2894	0.0001	1.0
5	2	4	6	2	5	1418.3193	1418.3193	0.0000	1.0
5	2	4	4	2	3	1421.5856	1421.5850	0.0007	1.0
6	2	5	5	2	4	1421.8807	1421.8808	-0.0001	1.0
7	2	6	6	2	5	1422.1767	1422.1763	0.0004	1.0
8	2	7	7	2	6	1422.4715	1422.4715	0.0000	1.0
9	2	8	8	2	7	1422.7667	1422.7665	0.0002	1.0
10	2	9	9	2	8	1423.0612	1423.0611	0.0001	1.0
11	2	10	10	2	9	1423.3554	1423.3554	0.0000	1.0
12	2	11	11	2	10	1423.6493	1423.6493	0.0000	1.0
13	2	12	12	2	11	1423.9427	1423.9428	-0.0001	1.0
14	2	13	13	2	12	1424.2355	1424.2359	-0.0004	1.0
15	2	14	14	2	13	1424.5285	1424.5286	-0.0001	1.0
16	2	15	15	2	14	1424.8209	1424.8209	0.0001	1.0
16	2	15	17	2	16	1415.0472	1415.0472	0.0000	1.0
17	2	16	16	2	15	1425.1126	1425.1126	0.0000	1.0
17	2	16	18	2	17	1414.7501	1414.7501	0.0000	1.0
18	2	17	17	2	16	1425.4040	1425.4039	0.0001	1.0
18	2	17	19	2	18	1414.4526	1414.4531	-0.0005	1.0
19	2	18	18	2	17	1425.6948	1425.6947	0.0002	1.0
19	2	18	20	2	19	1414.1565	1414.1562	0.0003	1.0
20	2	19	19	2	18	1425.9848	1425.9849	-0.0001	1.0
20	2	19	21	2	20	1413.8594	1413.8594	0.0000	1.0
21	2	20	20	2	19	1426.2744	1426.2746	-0.0002	1.0
21	2	20	22	2	21	1413.5627	1413.5628	-0.0001	1.0
22	2	21	21	2	20	1426.5639	1426.5637	0.0002	0.1
22	2	21	23	2	22	1413.2665	1413.2663	0.0002	1.0
23	2	22	22	2	21	1426.8525	1426.8522	0.0003	1.0
23	2	22	24	2	23	1412.9697	1412.9699	-0.0002	1.0
24	2	23	23	2	22	1427.1405	1427.1401	0.0004	1.0
24	2	23	25	2	24	1412.6737	1412.6737	0.0000	1.0
25	2	24	24	2	23	1427.4274	1427.4274	0.0000	1.0
25	2	24	26	2	25	1412.3773	1412.3776	-0.0003	1.0
26	2	25	25	2	24	1427.7136	1427.7141	-0.0005	1.0
26	2	25	27	2	26	1412.0820	1412.0817	0.0003	1.0
27	2	26	26	2	25	1428.0001	1428.0001	0.0000	1.0
27	2	26	28	2	27	1411.7853	1411.7859	-0.0006	1.0

28	2	27	27	2	26	1428.2852	1428.2854	-0.0002	1.0
28	2	27	29	2	28	1411.4902	1411.4902	0.0000	1.0
29	2	28	28	2	27	1428.5701	1428.5701	0.0000	1.0
29	2	28	30	2	29	1411.1948	1411.1947	0.0001	1.0
30	2	29	29	2	28	1428.8546	1428.8541	0.0005	1.0
30	2	29	31	2	30	1410.8992	1410.8993	-0.0001	1.0
31	2	30	30	2	29	1429.1374	1429.1374	0.0000	1.0
31	2	30	32	2	31	1410.6041	1410.6040	0.0001	1.0
32	2	31	31	2	30	1429.4201	1429.4200	0.0001	1.0
32	2	31	33	2	32	1410.3089	1410.3088	0.0001	1.0
33	2	32	32	2	31	1429.7019	1429.7019	0.0000	1.0
33	2	32	34	2	33	1410.0138	1410.0137	0.0001	1.0
34	2	33	33	2	32	1429.9835	1429.9831	0.0005	0.1
34	2	33	35	2	34	1409.7191	1409.7187	0.0005	1.0
35	2	34	34	2	33	1430.2636	1430.2635	0.0001	1.0
35	2	34	36	2	35	1409.4238	1409.4237	0.0001	1.0
36	2	35	35	2	34	1430.5434	1430.5433	0.0001	1.0
36	2	35	37	2	36	1409.1289	1409.1288	0.0001	1.0
37	2	36	36	2	35	1430.8225	1430.8223	0.0002	1.0
37	2	36	38	2	37	1408.8339	1408.8339	0.0000	1.0
38	2	37	37	2	36	1431.1006	1431.1006	0.0000	0.1
38	2	37	39	2	38	1408.5386	1408.5390	-0.0004	0.1
39	2	38	38	2	37	1431.3785	1431.3783	0.0003	1.0
39	2	38	40	2	39	1408.2442	1408.2440	0.0002	1.0
40	2	39	39	2	38	1431.6552	1431.6551	0.0001	1.0
40	2	39	41	2	40	1407.9492	1407.9490	0.0002	1.0
41	2	40	40	2	39	1431.9315	1431.9313	0.0002	1.0
41	2	40	42	2	41	1407.6545	1407.6539	0.0006	1.0
42	2	41	41	2	40	1432.2068	1432.2067	0.0002	1.0
42	2	41	43	2	42	1407.3584	1407.3587	-0.0003	0.1
5	2	3	6	2	4	1418.3160	1418.3158	0.0002	1.0
5	2	3	4	2	2	1421.5862	1421.5870	-0.0008	1.0
6	2	4	5	2	3	1421.8845	1421.8844	0.0001	1.0
7	2	5	6	2	4	1422.1823	1422.1822	0.0001	1.0
8	2	6	7	2	5	1422.4804	1422.4804	0.0000	1.0
9	2	7	8	2	6	1422.7792	1422.7791	0.0001	1.0
9	2	7	10	2	8	1417.1133	1417.1132	0.0001	1.0
11	2	9	12	2	10	1416.5071	1416.5071	0.0000	1.0
12	2	10	11	2	9	1423.6792	1423.6793	-0.0001	1.0
12	2	10	13	2	11	1416.2028	1416.2028	0.0000	1.0
13	2	11	12	2	10	1423.9808	1423.9808	0.0000	1.0
13	2	11	14	2	12	1415.8976	1415.8976	0.0000	1.0
14	2	12	13	2	11	1424.2829	1424.2830	-0.0001	1.0
14	2	12	15	2	13	1415.5916	1415.5917	-0.0001	1.0
15	2	13	14	2	12	1424.5861	1424.5860	0.0001	1.0
15	2	13	16	2	14	1415.2848	1415.2850	-0.0002	1.0

16	2	14	15	2	13	1424.8897	1424.8896	0.0001	1.0
16	2	14	17	2	15	1414.9780	1414.9776	0.0004	1.0
17	2	15	16	2	14	1425.1942	1425.1939	0.0003	1.0
17	2	15	18	2	16	1414.6691	1414.6698	-0.0007	1.0
18	2	16	17	2	15	1425.4989	1425.4987	0.0002	1.0
18	2	16	19	2	17	1414.3612	1414.3614	-0.0002	1.0
19	2	17	18	2	16	1425.8041	1425.8039	0.0002	1.0
19	2	17	20	2	18	1414.0527	1414.0529	-0.0002	1.0
20	2	18	19	2	17	1426.1091	1426.1092	-0.0001	0.1
20	2	18	21	2	19	1413.7442	1413.7440	0.0002	1.0
21	2	19	20	2	18	1426.4151	1426.4148	0.0003	1.0
21	2	19	22	2	20	1413.4347	1413.4351	-0.0004	1.0
22	2	20	21	2	19	1426.7202	1426.7203	-0.0001	1.0
22	2	20	23	2	21	1413.1264	1413.1263	0.0002	1.0
23	2	21	22	2	20	1427.0262	1427.0257	0.0005	0.1
23	2	21	24	2	22	1412.8180	1412.8176	0.0004	1.0
24	2	22	23	2	21	1427.3308	1427.3307	0.0001	1.0
24	2	22	25	2	23	1412.5093	1412.5092	0.0001	1.0
25	2	23	24	2	22	1427.6353	1427.6354	-0.0001	1.0
25	2	23	26	2	24	1412.2010	1412.2011	-0.0001	1.0
26	2	24	25	2	23	1427.9396	1427.9395	0.0002	1.0
26	2	24	27	2	25	1411.8932	1411.8935	-0.0003	1.0
27	2	25	26	2	24	1428.2428	1428.2429	-0.0001	1.0
27	2	25	28	2	26	1411.5863	1411.5863	0.0000	1.0
28	2	26	27	2	25	1428.5452	1428.5456	-0.0004	1.0
28	2	26	29	2	27	1411.2797	1411.2797	0.0000	1.0
29	2	27	28	2	26	1428.8477	1428.8477	0.0000	1.0
29	2	27	30	2	28	1410.9736	1410.9739	-0.0003	1.0
30	2	28	29	2	27	1429.1496	1429.1485	0.0011	0.1
30	2	28	31	2	29	1410.6689	1410.6683	0.0007	1.0
31	2	29	30	2	28	1429.4485	1429.4485	0.0001	1.0
31	2	29	32	2	30	1410.3635	1410.3635	0.0000	1.0
32	2	30	31	2	29	1429.7472	1429.7474	-0.0002	1.0
32	2	30	33	2	31	1410.0592	1410.0594	-0.0002	1.0
33	2	31	32	2	30	1430.0454	1430.0451	0.0003	1.0
33	2	31	34	2	32	1409.7562	1409.7560	0.0002	1.0
34	2	32	33	2	31	1430.3416	1430.3417	-0.0001	1.0
34	2	32	35	2	33	1409.4534	1409.4534	0.0000	1.0
35	2	33	34	2	32	1430.6365	1430.6369	-0.0004	1.0
35	2	33	36	2	34	1409.1517	1409.1516	0.0001	1.0
36	2	34	35	2	33	1430.9312	1430.9308	0.0004	1.0
36	2	34	37	2	35	1408.8505	1408.8504	0.0001	1.0
37	2	35	36	2	34	1431.2238	1431.2228	0.0010	1.0
37	2	35	38	2	36	1408.5504	1408.5497	0.0007	1.0
38	2	36	37	2	35	1431.5145	1431.5153	-0.0008	1.0
38	2	36	39	2	37	1408.2510	1408.2518	-0.0008	1.0

39	2	37	38	2	36	1431.8044	1431.8043	0.0001	1.0
39	2	37	40	2	38	1407.9525	1407.9528	-0.0003	1.0
40	2	38	39	2	37	1432.0922	1432.0921	0.0001	1.0
40	2	38	41	2	39	1407.6545	1407.6550	-0.0005	0.1
41	2	39	40	2	38	1432.3777	1432.3782	-0.0005	1.0
41	2	39	42	2	40	1407.3584	1407.3581	0.0003	1.0
42	2	40	41	2	39	1432.6617	1432.6626	-0.0009	0.1
42	2	40	43	2	41	1407.0626	1407.0620	0.0006	1.0
3	3	0	4	3	0	1418.9288	1418.9284	0.0004	1.0
4	3	0	5	3	0	1418.6308	1418.6307	0.0001	1.0
4	3	0	3	3	0	1421.3037	1421.3038	-0.0001	1.0
5	3	0	6	3	0	1418.3329	1418.3328	0.0001	1.0
5	3	0	4	3	0	1421.6003	1421.6001	0.0002	1.0
6	3	0	5	3	0	1421.8965	1421.8964	0.0002	1.0
7	3	0	6	3	0	1422.1923	1422.1925	-0.0002	1.0
8	3	0	7	3	0	1422.4885	1422.4886	-0.0001	1.0
9	3	0	8	3	0	1422.7847	1422.7847	0.0000	1.0
9	3	0	10	3	0	1417.1390	1417.1389	0.0001	1.0
10	3	0	9	3	0	1423.0799	1423.0807	-0.0008	0.1
10	3	0	11	3	0	1416.8398	1416.8398	0.0000	1.0
11	3	0	10	3	0	1423.3772	1423.3766	0.0006	0.1
11	3	0	12	3	0	1416.5408	1416.5403	0.0005	0.1
12	3	0	11	3	0	1423.6721	1423.6718	0.0003	1.0
13	3	10	14	3	11	1415.9413	1415.9408	0.0005	0.1
14	3	11	13	3	10	1424.2663	1424.2664	-0.0001	1.0
14	3	11	15	3	12	1415.6400	1415.6398	0.0002	0.1
15	3	12	14	3	11	1424.5629	1424.5629	0.0001	1.0
15	3	12	16	3	13	1415.3386	1415.3387	-0.0001	1.0
16	3	13	15	3	12	1424.8599	1424.8596	0.0003	1.0
16	3	13	17	3	14	1415.0372	1415.0372	0.0000	1.0
17	3	14	16	3	13	1425.1567	1425.1565	0.0002	1.0
17	3	14	18	3	15	1414.7354	1414.7352	0.0002	1.0
18	3	15	17	3	14	1425.4539	1425.4538	0.0001	1.0
18	3	15	19	3	16	1414.4328	1414.4327	0.0001	1.0
19	3	16	18	3	15	1425.7516	1425.7515	0.0001	1.0
19	3	16	20	3	17	1414.1298	1414.1296	0.0002	1.0
20	3	17	19	3	16	1426.0497	1426.0495	0.0002	1.0
20	3	17	21	3	18	1413.8261	1413.8260	0.0001	1.0
21	3	18	20	3	17	1426.3482	1426.3480	0.0002	0.1
21	3	18	22	3	19	1413.5217	1413.5217	0.0000	1.0
22	3	19	21	3	18	1426.6477	1426.6471	0.0006	1.0
22	3	19	23	3	20	1413.2174	1413.2167	0.0007	0.1
23	3	20	22	3	19	1426.9468	1426.9467	0.0001	1.0
23	3	20	24	3	21	1412.9114	1412.9111	0.0003	0.1
24	3	21	23	3	20	1427.2470	1427.2470	0.0000	1.0
24	3	21	25	3	22	1412.6051	1412.6048	0.0003	1.0

25	3	22	24	3	21	1427.5483	1427.5479	0.0004	1.0
25	3	22	26	3	23	1412.2979	1412.2977	0.0002	1.0
26	3	23	25	3	22	1427.8490	1427.8496	-0.0006	0.1
26	3	23	27	3	24	1411.9902	1411.9899	0.0003	1.0
27	3	24	26	3	23	1428.1519	1428.1520	-0.0001	1.0
27	3	24	28	3	25	1411.6813	1411.6813	0.0000	1.0
28	3	25	27	3	24	1428.4555	1428.4552	0.0003	1.0
28	3	25	29	3	26	1411.3715	1411.3721	-0.0006	1.0
29	3	26	28	3	25	1428.7590	1428.7592	-0.0002	1.0
29	3	26	30	3	27	1411.0624	1411.0621	0.0003	1.0
30	3	27	29	3	26	1429.0643	1429.0639	0.0005	1.0
30	3	27	31	3	28	1410.7517	1410.7516	0.0001	1.0
31	3	28	30	3	27	1429.3692	1429.3693	-0.0001	1.0
31	3	28	32	3	29	1410.4405	1410.4405	0.0000	1.0
32	3	29	31	3	28	1429.6753	1429.6753	0.0000	1.0
32	3	29	33	3	30	1410.1288	1410.1289	-0.0001	1.0
33	3	30	32	3	29	1429.9820	1429.9819	0.0001	1.0
33	3	30	34	3	31	1409.8172	1409.8170	0.0002	1.0
34	3	31	33	3	30	1430.2890	1430.2890	0.0000	0.1
34	3	31	35	3	32	1409.5048	1409.5048	0.0001	1.0
35	3	32	34	3	31	1430.5964	1430.5964	0.0000	1.0
35	3	32	36	3	33	1409.1925	1409.1924	0.0001	1.0
36	3	33	35	3	32	1430.9048	1430.9039	0.0009	0.1
36	3	33	37	3	34	1408.8800	1408.8800	0.0000	1.0
37	3	34	36	3	33	1431.2116	1431.2114	0.0002	1.0
37	3	34	38	3	35	1408.5677	1408.5677	0.0000	1.0
38	3	35	37	3	34	1431.5181	1431.5189	-0.0008	1.0
38	3	35	39	3	36	1408.2554	1408.2556	-0.0002	1.0
39	3	36	38	3	35	1431.8260	1431.8260	0.0000	1.0
39	3	36	40	3	37	1407.9437	1407.9438	-0.0001	1.0
40	3	37	39	3	36	1432.1328	1432.1326	0.0002	0.1
40	3	37	41	3	38	1407.6322	1407.6323	-0.0001	1.0
41	3	38	40	3	37	1432.4384	1432.4387	-0.0003	1.0
41	3	38	42	3	39	1407.3214	1407.3214	0.0000	1.0
42	3	39	41	3	38	1432.7438	1432.7440	-0.0002	1.0
42	3	39	43	3	40	1407.0109	1407.0110	-0.0001	1.0
13	3	11	14	3	12	1415.9413	1415.9418	-0.0005	1.0
14	3	12	13	3	11	1424.2637	1424.2637	0.0000	1.0
14	3	12	15	3	13	1415.6419	1415.6420	-0.0001	0.1
15	3	13	14	3	12	1424.5595	1424.5593	0.0002	1.0
15	3	13	16	3	14	1415.3424	1415.3419	0.0005	1.0
16	3	14	15	3	13	1424.8548	1424.8549	-0.0001	1.0
16	3	14	17	3	15	1415.0414	1415.0417	-0.0003	1.0
17	3	15	16	3	14	1425.1502	1425.1503	-0.0001	1.0
17	3	15	18	3	16	1414.7414	1414.7412	0.0002	1.0
18	3	16	17	3	15	1425.4458	1425.4457	0.0001	1.0

18	3	16	19	3	17	1414.4407	1414.4407	0.0001	1.0
19	3	17	18	3	16	1425.7410	1425.7409	0.0001	1.0
19	3	17	20	3	18	1414.1399	1414.1399	0.0000	1.0
20	3	18	19	3	17	1426.0359	1426.0360	-0.0001	1.0
20	3	18	21	3	19	1413.8391	1413.8391	0.0000	1.0
21	3	19	20	3	18	1426.3313	1426.3309	0.0004	1.0
21	3	19	22	3	20	1413.5382	1413.5381	0.0001	1.0
22	3	20	21	3	19	1426.6260	1426.6257	0.0003	1.0
22	3	20	23	3	21	1413.2374	1413.2371	0.0003	1.0
23	3	21	22	3	20	1426.9200	1426.9202	-0.0002	1.0
23	3	21	24	3	22	1412.9359	1412.9359	0.0000	1.0
24	3	22	23	3	21	1427.2146	1427.2145	0.0001	1.0
24	3	22	25	3	23	1412.6349	1412.6348	0.0001	1.0
25	3	23	24	3	22	1427.5088	1427.5085	0.0003	1.0
25	3	23	26	3	24	1412.3338	1412.3336	0.0002	1.0
26	3	24	25	3	23	1427.8021	1427.8023	-0.0002	1.0
26	3	24	27	3	25	1412.0322	1412.0324	-0.0002	1.0
27	3	25	26	3	24	1428.0958	1428.0957	0.0001	1.0
27	3	25	28	3	26	1411.7312	1411.7312	0.0000	1.0
28	3	26	27	3	25	1428.3888	1428.3887	0.0001	1.0
28	3	26	29	3	27	1411.4299	1411.4300	-0.0001	1.0
29	3	27	28	3	26	1428.6813	1428.6814	-0.0001	1.0
29	3	27	30	3	28	1411.1289	1411.1289	0.0000	1.0
30	3	28	29	3	27	1428.9737	1428.9736	0.0001	1.0
30	3	28	31	3	29	1410.8281	1410.8278	0.0003	1.0
31	3	29	30	3	28	1429.2650	1429.2654	-0.0004	0.1
31	3	29	32	3	30	1410.5263	1410.5268	-0.0005	1.0
32	3	30	31	3	29	1429.5567	1429.5567	0.0000	1.0
32	3	30	33	3	31	1410.2256	1410.2259	-0.0003	1.0
33	3	31	32	3	30	1429.8474	1429.8475	-0.0001	1.0
33	3	31	34	3	32	1409.9252	1409.9252	0.0001	1.0
34	3	32	33	3	31	1430.1376	1430.1377	-0.0001	1.0
34	3	32	35	3	33	1409.6248	1409.6245	0.0003	1.0
35	3	33	34	3	32	1430.4273	1430.4273	0.0000	1.0
35	3	33	36	3	34	1409.3244	1409.3239	0.0005	0.1
36	3	34	35	3	33	1430.7163	1430.7163	0.0000	1.0
36	3	34	37	3	35	1409.0233	1409.0235	-0.0002	1.0
37	3	35	36	3	34	1431.0035	1431.0047	-0.0012	1.0
37	3	35	38	3	36	1408.7223	1408.7232	-0.0009	1.0
38	3	36	37	3	35	1431.2923	1431.2924	-0.0001	1.0
38	3	36	39	3	37	1408.4228	1408.4230	-0.0002	1.0
39	3	37	38	3	36	1431.5795	1431.5794	0.0001	1.0
39	3	37	40	3	38	1408.1229	1408.1230	-0.0001	1.0
40	3	38	39	3	37	1431.8657	1431.8656	0.0001	1.0
40	3	38	41	3	39	1407.8232	1407.8230	0.0002	1.0
41	3	39	40	3	38	1432.1512	1432.1511	0.0001	1.0

41	3	39	42	3	40	1407.5233	1407.5232	0.0001	1.0
42	3	40	41	3	39	1432.4359	1432.4358	0.0001	1.0
42	3	40	43	3	41	1407.2232	1407.2235	-0.0003	1.0
4	4	0	5	4	0	1418.6504	1418.6502	0.0002	1.0
5	4	0	6	4	0	1418.3518	1418.3524	-0.0006	1.0
5	4	0	4	4	0	1421.6197	1421.6194	0.0003	1.0
6	4	0	5	4	0	1421.9151	1421.9156	-0.0005	1.0
7	4	0	6	4	0	1422.2119	1422.2116	0.0003	1.0
8	4	0	7	4	0	1422.5077	1422.5075	0.0002	1.0
9	4	0	10	4	0	1417.1589	1417.1592	-0.0003	1.0
9	4	0	8	4	0	1422.8034	1422.8033	0.0001	1.0
10	4	0	11	4	0	1416.8603	1416.8604	-0.0001	1.0
10	4	0	9	4	0	1423.0996	1423.0991	0.0006	1.0
11	4	0	12	4	0	1416.5618	1416.5613	0.0005	1.0
11	4	0	10	4	0	1423.3953	1423.3947	0.0006	1.0
12	4	0	13	4	0	1416.2619	1416.2621	-0.0002	1.0
12	4	0	11	4	0	1423.6904	1423.6903	0.0002	1.0
13	4	0	14	4	0	1415.9630	1415.9626	0.0004	1.0
13	4	0	12	4	0	1423.9863	1423.9857	0.0006	1.0
14	4	0	15	4	0	1415.6626	1415.6629	-0.0003	1.0
14	4	0	13	4	0	1424.2815	1424.2812	0.0003	1.0
15	4	0	16	4	0	1415.3628	1415.3630	-0.0002	1.0
15	4	0	14	4	0	1424.5766	1424.5765	0.0001	1.0
16	4	0	17	4	0	1415.0629	1415.0629	0.0000	1.0
16	4	0	15	4	0	1424.8720	1424.8718	0.0002	1.0
17	4	0	18	4	0	1414.7628	1414.7625	0.0003	1.0
17	4	0	16	4	0	1425.1674	1425.1671	0.0003	1.0
18	4	0	19	4	0	1414.4616	1414.4619	-0.0003	1.0
18	4	0	17	4	0	1425.4622	1425.4624	-0.0002	1.0
19	4	0	20	4	0	1414.1607	1414.1610	-0.0003	1.0
19	4	0	18	4	0	1425.7574	1425.7576	-0.0002	1.0
20	4	0	21	4	0	1413.8594	1413.8599	-0.0005	1.0
20	4	0	19	4	0	1426.0527	1426.0528	-0.0001	1.0
21	4	0	22	4	0	1413.5585	1413.5585	0.0000	1.0
21	4	0	20	4	0	1426.3482	1426.3480	0.0002	0.1
22	4	0	23	4	0	1413.2567	1413.2569	-0.0002	1.0
22	4	0	21	4	0	1426.6430	1426.6432	-0.0002	1.0
23	4	0	24	4	0	1412.9551	1412.9550	0.0001	1.0
23	4	0	22	4	0	1426.9396	1426.9385	0.0011	1.0
24	4	0	25	4	0	1412.6522	1412.6529	-0.0007	1.0
24	4	0	23	4	0	1427.2334	1427.2338	-0.0004	1.0
25	4	0	26	4	0	1412.3509	1412.3505	0.0005	1.0
25	4	0	24	4	0	1427.5295	1427.5291	0.0004	1.0
26	4	22	25	4	21	1427.8261	1427.8260	0.0001	1.0
26	4	22	27	4	23	1412.0464	1412.0463	0.0001	1.0
27	4	23	26	4	22	1428.1220	1428.1220	0.0001	1.0

27	4	23	28	4	24	1411.7434	1411.7430	0.0004	1.0
28	4	24	27	4	23	1428.4184	1428.4181	0.0003	1.0
28	4	24	29	4	25	1411.4395	1411.4393	0.0002	1.0
29	4	25	28	4	24	1428.7146	1428.7144	0.0002	1.0
29	4	25	30	4	26	1411.1352	1411.1351	0.0001	1.0
30	4	26	29	4	25	1429.0112	1429.0110	0.0002	1.0
30	4	26	31	4	27	1410.8308	1410.8306	0.0002	1.0
31	4	27	30	4	26	1429.3081	1429.3079	0.0002	1.0
31	4	27	32	4	28	1410.5263	1410.5256	0.0007	1.0
32	4	28	31	4	27	1429.6054	1429.6052	0.0002	1.0
32	4	28	33	4	29	1410.2200	1410.2202	-0.0002	1.0
33	4	29	32	4	28	1429.9016	1429.9028	-0.0012	0.1
33	4	29	34	4	30	1409.9148	1409.9143	0.0005	1.0
34	4	30	33	4	29	1430.2014	1430.2009	0.0005	1.0
34	4	30	35	4	31	1409.6060	1409.6078	-0.0018	0.1
35	4	31	34	4	30	1430.4999	1430.4995	0.0004	1.0
35	4	31	36	4	32	1409.3011	1409.3009	0.0002	1.0
36	4	32	35	4	31	1430.7984	1430.7987	-0.0003	1.0
36	4	32	37	4	33	1408.9935	1408.9933	0.0002	1.0
37	4	33	36	4	32	1431.0978	1431.0984	-0.0006	0.1
37	4	33	38	4	34	1408.6853	1408.6851	0.0002	1.0
38	4	34	37	4	33	1431.3992	1431.3988	0.0004	1.0
38	4	34	39	4	35	1408.3759	1408.3764	-0.0005	1.0
39	4	35	38	4	34	1431.6999	1431.6999	0.0000	1.0
39	4	35	40	4	36	1408.0670	1408.0669	0.0001	1.0
40	4	36	39	4	35	1432.0018	1432.0017	0.0001	1.0
40	4	36	41	4	37	1407.7568	1407.7569	-0.0001	1.0
41	4	37	40	4	36	1432.3046	1432.3043	0.0003	1.0
41	4	37	42	4	38	1407.4463	1407.4461	0.0002	1.0
42	4	38	41	4	37	1432.6078	1432.6077	0.0001	1.0
42	4	38	43	4	39	1407.1346	1407.1347	-0.0001	1.0
43	4	39	42	4	38	1432.9115	1432.9120	-0.0005	0.1
43	4	39	44	4	40	1406.8232	1406.8227	0.0005	1.0
44	4	40	43	4	39	1433.2170	1433.2170	0.0000	1.0
44	4	40	45	4	41	1406.5102	1406.5101	0.0001	1.0
26	4	23	25	4	22	1427.8232	1427.8229	0.0004	1.0
26	4	23	27	4	24	1412.0492	1412.0492	0.0000	1.0
27	4	24	26	4	23	1428.1179	1428.1178	0.0001	1.0
27	4	24	28	4	25	1411.7470	1411.7467	0.0004	1.0
28	4	25	27	4	24	1428.4131	1428.4127	0.0004	1.0
28	4	25	29	4	26	1411.4439	1411.4439	0.0000	1.0
29	4	26	28	4	25	1428.7080	1428.7076	0.0004	1.0
29	4	26	30	4	27	1411.1413	1411.1410	0.0003	1.0
30	4	27	29	4	26	1429.0027	1429.0025	0.0002	1.0
30	4	27	31	4	28	1410.8378	1410.8380	-0.0002	1.0
31	4	28	30	4	27	1429.2973	1429.2970	0.0003	1.0

31	4	28	32	4	29	1410.5344	1410.5345	-0.0001	1.0
32	4	29	31	4	28	1429.5912	1429.5919	-0.0007	0.1
32	4	29	33	4	30	1410.2315	1410.2312	0.0003	1.0
33	4	30	32	4	29	1429.8866	1429.8865	0.0002	1.0
33	4	30	34	4	31	1409.9275	1409.9277	-0.0002	1.0
34	4	31	33	4	30	1430.1812	1430.1807	0.0005	1.0
34	4	31	35	4	32	1409.6248	1409.6238	0.0010	1.0
35	4	32	34	4	31	1430.4758	1430.4764	-0.0006	1.0
35	4	32	36	4	33	1409.3207	1409.3215	-0.0008	1.0
36	4	33	35	4	32	1430.7698	1430.7703	-0.0005	1.0
36	4	33	37	4	34	1409.0170	1409.0173	-0.0003	1.0
37	4	34	36	4	33	1431.0642	1431.0643	-0.0001	1.0
37	4	34	38	4	35	1408.7133	1408.7135	-0.0002	1.0
38	4	35	37	4	34	1431.3582	1431.3583	-0.0001	1.0
38	4	35	39	4	36	1408.4096	1408.4097	-0.0001	1.0
39	4	36	38	4	35	1431.6519	1431.6520	-0.0001	1.0
39	4	36	40	4	37	1408.1057	1408.1058	-0.0001	1.0
40	4	37	39	4	36	1431.9448	1431.9449	-0.0001	1.0
40	4	37	41	4	38	1407.8013	1407.8015	-0.0002	1.0
41	4	38	40	4	37	1432.2340	1432.2338	0.0002	1.0
41	4	38	42	4	39	1407.4935	1407.4935	0.0001	1.0
42	4	39	41	4	38	1432.5442	1432.5442	0.0000	1.0
42	4	39	43	4	40	1407.2071	1407.2072	-0.0001	1.0
43	4	40	42	4	39	1432.8334	1432.8333	0.0001	1.0
43	4	40	44	4	41	1406.9002	1406.9002	0.0000	1.0
44	4	41	43	4	40	1433.1270	1433.1269	0.0001	1.0
44	4	41	45	4	42	1406.5980	1406.5980	0.0000	1.0
7	5	0	6	5	0	1422.2262	1422.2262	0.0000	1.0
8	5	0	9	5	0	1417.4736	1417.4737	-0.0001	1.0
8	5	0	7	5	0	1422.5226	1422.5230	-0.0004	1.0
9	5	0	10	5	0	1417.1763	1417.1761	0.0002	1.0
10	5	0	11	5	0	1416.8781	1416.8784	-0.0003	1.0
10	5	0	9	5	0	1423.1163	1423.1162	0.0001	1.0
11	5	0	12	5	0	1416.5807	1416.5805	0.0002	1.0
11	5	0	10	5	0	1423.4128	1423.4127	0.0001	1.0
12	5	0	13	5	0	1416.2827	1416.2824	0.0004	1.0
12	5	0	11	5	0	1423.7093	1423.7090	0.0003	1.0
13	5	0	14	5	0	1415.9841	1415.9840	0.0001	1.0
13	5	0	12	5	0	1424.0050	1424.0052	-0.0002	1.0
14	5	0	15	5	0	1415.6852	1415.6854	-0.0002	1.0
14	5	0	13	5	0	1424.3012	1424.3012	0.0000	1.0
15	5	0	16	5	0	1415.3863	1415.3867	-0.0004	0.1
15	5	0	14	5	0	1424.5972	1424.5971	0.0001	1.0
16	5	0	17	5	0	1415.0872	1415.0876	-0.0004	1.0
16	5	0	15	5	0	1424.8925	1424.8930	-0.0005	1.0
17	5	0	18	5	0	1414.7886	1414.7884	0.0002	1.0

17	5	0	16	5	0	1425.1887	1425.1887	0.0000	1.0
18	5	0	19	5	0	1414.4894	1414.4890	0.0004	1.0
18	5	0	17	5	0	1425.4845	1425.4843	0.0002	1.0
19	5	0	20	5	0	1414.1892	1414.1893	-0.0001	1.0
19	5	0	18	5	0	1425.7795	1425.7798	-0.0003	1.0
20	5	0	21	5	0	1413.8891	1413.8894	-0.0003	1.0
20	5	0	19	5	0	1426.0752	1426.0752	0.0000	1.0
21	5	0	22	5	0	1413.5891	1413.5893	-0.0002	1.0
21	5	0	20	5	0	1426.3708	1426.3706	0.0002	1.0
22	5	0	23	5	0	1413.2894	1413.2890	0.0004	1.0
22	5	0	21	5	0	1426.6656	1426.6658	-0.0002	0.1
23	5	0	24	5	0	1412.9888	1412.9885	0.0003	1.0
23	5	0	22	5	0	1426.9621	1426.9611	0.0010	0.1
24	5	0	25	5	0	1412.6877	1412.6877	0.0000	1.0
24	5	0	23	5	0	1427.2569	1427.2563	0.0007	1.0
25	5	0	26	5	0	1412.3866	1412.3868	-0.0002	1.0
25	5	0	24	5	0	1427.5516	1427.5514	0.0002	1.0
26	5	0	27	5	0	1412.0854	1412.0857	-0.0003	1.0
26	5	0	25	5	0	1427.8464	1427.8465	-0.0001	1.0
27	5	0	28	5	0	1411.7853	1411.7844	0.0010	1.0
27	5	0	26	5	0	1428.1421	1428.1417	0.0004	1.0
28	5	0	29	5	0	1411.4826	1411.4828	-0.0002	1.0
28	5	0	27	5	0	1428.4375	1428.4368	0.0007	1.0
29	5	0	30	5	0	1411.1814	1411.1811	0.0003	1.0
29	5	0	28	5	0	1428.7323	1428.7319	0.0004	1.0
30	5	0	31	5	0	1410.8791	1410.8793	-0.0002	1.0
30	5	0	29	5	0	1429.0272	1429.0271	0.0001	1.0
31	5	0	32	5	0	1410.5772	1410.5772	0.0000	1.0
31	5	0	30	5	0	1429.3219	1429.3223	-0.0004	1.0
32	5	0	33	5	0	1410.2753	1410.2751	0.0002	1.0
32	5	28	31	5	27	1429.6176	1429.6171	0.0005	1.0
33	5	0	34	5	0	1409.9733	1409.9728	0.0005	1.0
33	5	29	32	5	28	1429.9125	1429.9123	0.0002	1.0
34	5	0	35	5	0	1409.6706	1409.6708	-0.0002	1.0
34	5	30	33	5	29	1430.2071	1430.2076	-0.0005	0.1
35	5	0	36	5	0	1409.3677	1409.3669	0.0008	1.0
36	5	32	37	5	33	1409.0654	1409.0652	0.0002	1.0
37	5	33	38	5	34	1408.7623	1408.7624	-0.0001	1.0
37	5	33	36	5	32	1431.0941	1431.0939	0.0002	1.0
38	5	0	39	5	0	1408.4597	1408.4596	0.0002	1.0
38	5	34	37	5	33	1431.3901	1431.3896	0.0005	1.0
39	5	0	40	5	0	1408.1573	1408.1571	0.0002	1.0
39	5	35	38	5	34	1431.6854	1431.6854	0.0000	1.0
40	5	0	41	5	0	1407.8544	1407.8550	-0.0006	1.0
40	5	36	39	5	35	1431.9805	1431.9813	-0.0008	1.0
41	5	37	42	5	38	1407.5513	1407.5510	0.0003	1.0

41	5	37	40	5	36	1432.2781	1432.2774	0.0007	1.0
42	5	38	43	5	39	1407.2482	1407.2482	0.0000	0.1
42	5	38	41	5	37	1432.5738	1432.5737	0.0001	1.0
43	5	39	44	5	40	1406.9452	1406.9454	-0.0002	1.0
43	5	39	42	5	38	1432.8705	1432.8702	0.0003	0.1
32	5	27	31	5	26	1429.6176	1429.6182	-0.0006	1.0
33	5	28	32	5	27	1429.9139	1429.9139	0.0000	1.0
34	5	29	33	5	28	1430.2086	1430.2105	-0.0019	0.1
36	5	31	37	5	32	1409.0654	1409.0642	0.0012	1.0
37	5	32	38	5	33	1408.7604	1408.7618	-0.0014	1.0
37	5	32	36	5	31	1431.0960	1431.0978	-0.0018	1.0
38	5	33	37	5	32	1431.3954	1431.3951	0.0003	1.0
39	5	34	38	5	33	1431.6935	1431.6932	0.0003	1.0
40	5	35	39	5	34	1431.9924	1431.9923	0.0001	1.0
41	5	36	42	5	37	1407.5574	1407.5568	0.0006	1.0
41	5	36	40	5	35	1432.2935	1432.2940	-0.0005	1.0
42	5	37	43	5	38	1407.2593	1407.2587	0.0006	0.1
42	5	37	41	5	36	1432.5980	1432.5975	0.0005	0.1
7	6	0	6	6	0	1422.2748	1422.2752	-0.0004	1.0
8	6	0	7	6	0	1422.5709	1422.5711	-0.0002	1.0
9	6	0	8	6	0	1422.8666	1422.8670	-0.0004	1.0
10	6	0	11	6	0	1416.9254	1416.9253	0.0001	1.0
10	6	0	9	6	0	1423.1626	1423.1628	-0.0002	1.0
11	6	0	12	6	0	1416.6268	1416.6267	0.0001	1.0
11	6	0	10	6	0	1423.4584	1423.4584	0.0000	1.0
12	6	0	13	6	0	1416.3278	1416.3280	-0.0002	1.0
12	6	0	11	6	0	1423.7537	1423.7539	-0.0002	1.0
13	6	0	14	6	0	1416.0289	1416.0292	-0.0003	1.0
13	6	0	12	6	0	1424.0494	1424.0494	0.0000	1.0
13	6	0	12	5	0	1439.7820	1439.7822	-0.0002	1.0
14	6	0	13	6	0	1424.3447	1424.3448	-0.0001	1.0
14	6	0	13	5	0	1440.0772	1440.0772	0.0000	1.0
15	6	0	14	6	0	1424.6397	1424.6401	-0.0004	1.0
15	6	0	14	5	0	1440.3721	1440.3719	0.0002	1.0
16	6	0	15	6	0	1424.9354	1424.9353	0.0001	1.0
16	6	0	15	5	0	1440.6664	1440.6665	-0.0001	1.0
17	6	0	16	6	0	1425.2304	1425.2304	0.0000	1.0
17	6	0	16	5	0	1440.9611	1440.9608	0.0003	0.1
18	6	0	17	6	0	1425.5256	1425.5255	0.0001	1.0
18	6	0	17	5	0	1441.2548	1441.2549	-0.0001	1.0
19	6	0	18	6	0	1425.8200	1425.8205	-0.0005	1.0
19	6	0	18	5	0	1441.5491	1441.5488	0.0003	0.1
20	6	0	19	6	0	1426.1155	1426.1156	-0.0001	1.0
20	6	0	19	5	0	1441.8423	1441.8424	-0.0001	1.0
21	6	0	20	6	0	1426.4108	1426.4106	0.0002	1.0
21	6	0	20	5	0	1442.1357	1442.1358	-0.0001	0.1

22	6	0	21	5	0	1442.4290	1442.4289	0.0001	1.0
23	6	0	22	6	0	1427.0009	1427.0007	0.0002	1.0
23	6	0	22	5	0	1442.7214	1442.7218	-0.0004	0.1
24	6	0	23	6	0	1427.2956	1427.2960	-0.0004	1.0
24	6	0	23	5	0	1443.0146	1443.0146	0.0001	1.0
25	6	0	24	6	0	1427.5912	1427.5914	-0.0002	1.0
25	6	0	24	5	0	1443.3072	1443.3071	0.0001	1.0
26	6	0	25	6	0	1427.8874	1427.8873	0.0001	1.0
26	6	0	25	5	0	1443.5994	1443.5996	-0.0002	0.1
27	6	0	26	6	0	1428.1840	1428.1838	0.0002	1.0
27	6	0	26	5	0	1443.8930	1443.8924	0.0006	1.0
28	6	0	27	6	0	1428.4820	1428.4816	0.0004	1.0
28	6	0	27	5	0	1444.1864	1444.1859	0.0005	1.0
29	6	0	28	6	0	1428.7822	1428.7817	0.0006	1.0
29	6	0	28	5	0	1444.4815	1444.4813	0.0002	0.1
30	6	0	31	6	0	1410.7877	1410.7876	0.0001	1.0*
30	6	0	29	6	0	1428.9227	1428.9231	-0.0004	1.0*
30	6	0	31	6	0	1410.9512	1410.9512	0.0001	1.0
30	6	0	29	6	0	1429.0871	1429.0867	0.0004	1.0
30	6	0	29	5	0	1444.7807	1444.7811	-0.0004	1.0
31	6	0	32	6	0	1410.5344	1410.5329	0.0015	0.1*
31	6	0	30	6	0	1429.2653	1429.2644	0.0009	0.1*
31	6	0	32	6	0	1410.6712	1410.6708	0.0004	1.0
31	6	0	30	6	0	1429.4022	1429.4023	-0.0001	1.0
32	6	0	33	6	0	1410.4075	1410.4077	-0.0002	1.0*
32	6	0	31	6	0	1429.7358	1429.7352	0.0006	0.1*
32	6	0	33	6	0	1410.2622	1410.2626	-0.0004	1.0
32	6	0	31	6	0	1429.5900	1429.5901	-0.0001	1.0
32	6	0	31	5	0	1445.2724	1445.2722	0.0002	1.0
33	6	0	34	6	0	1409.9770	1409.9774	-0.0004	1.0
33	6	0	32	6	0	1429.9017	1429.9012	0.0005	1.0
33	6	0	32	5	0	1445.5755	1445.5761	-0.0006	1.0
34	6	0	35	6	0	1409.6836	1409.6839	-0.0003	1.0
34	6	0	33	6	0	1430.2042	1430.2040	0.0002	1.0
35	6	0	36	6	0	1409.3861	1409.3860	0.0001	1.0
35	6	0	34	6	0	1430.5027	1430.5027	0.0000	1.0
36	6	0	37	6	0	1409.0862	1409.0862	0.0000	1.0
36	6	0	35	6	0	1430.8003	1430.7996	0.0007	1.0
36	6	0	35	5	0	1446.4491	1446.4485	0.0006	1.0
37	6	0	38	6	0	1408.7852	1408.7852	0.0000	1.0
38	6	0	39	6	0	1408.4835	1408.4834	0.0001	1.0
38	6	0	37	6	0	1431.3901	1431.3905	-0.0004	1.0
39	6	0	40	6	0	1408.1810	1408.1810	0.0000	0.1
39	6	0	38	6	0	1431.6854	1431.6853	0.0001	1.0
40	6	0	41	6	0	1407.8781	1407.8781	0.0000	1.0
40	6	0	39	6	0	1431.9800	1431.9797	0.0003	0.1

8	7	0	9	7	0	1417.5535	1417.5536	-0.0001	1.0
8	7	0	7	7	0	1422.6026	1422.6027	-0.0001	1.0
9	7	0	10	7	0	1417.2551	1417.2553	-0.0002	1.0
9	7	0	8	7	0	1422.8983	1422.8985	-0.0002	1.0
10	7	0	11	7	0	1416.9566	1416.9568	-0.0002	1.0
10	7	0	9	7	0	1423.1941	1423.1941	0.0000	1.0
11	7	0	12	7	0	1416.6580	1416.6582	-0.0002	1.0
11	7	0	10	7	0	1423.4895	1423.4896	-0.0001	1.0
12	7	0	13	7	0	1416.3594	1416.3594	0.0000	1.0
12	7	0	11	7	0	1423.7848	1423.7850	-0.0002	1.0
13	7	0	14	7	0	1416.0604	1416.0605	-0.0001	1.0
14	7	0	15	7	0	1415.7614	1415.7614	0.0000	1.0
14	7	0	13	7	0	1424.3746	1424.3754	-0.0008	1.0
15	7	0	16	7	0	1415.4620	1415.4622	-0.0002	1.0
15	7	0	14	7	0	1424.6703	1424.6705	-0.0002	1.0
16	7	0	17	7	0	1415.1635	1415.1628	0.0007	0.1
16	7	0	15	7	0	1424.9650	1424.9654	-0.0004	1.0
17	7	0	18	7	0	1414.8620	1414.8632	-0.0012	0.1
17	7	0	16	7	0	1425.2597	1425.2602	-0.0005	1.0
18	7	0	19	7	0	1414.5637	1414.5635	0.0002	1.0
18	7	0	17	7	0	1425.5546	1425.5549	-0.0003	1.0
19	7	0	20	7	0	1414.2633	1414.2636	-0.0003	1.0
19	7	0	18	7	0	1425.8493	1425.8494	-0.0001	1.0
20	7	0	21	7	0	1413.9629	1413.9636	-0.0007	1.0
20	7	0	19	7	0	1426.1438	1426.1439	-0.0001	1.0
21	7	0	22	7	0	1413.6635	1413.6634	0.0001	1.0
21	7	0	20	7	0	1426.4377	1426.4383	-0.0006	1.0
22	7	0	23	7	0	1413.3631	1413.3631	0.0000	1.0
22	7	0	21	7	0	1426.7324	1426.7325	-0.0001	1.0
23	7	0	24	7	0	1413.0622	1413.0626	-0.0004	1.0
23	7	0	22	7	0	1427.0269	1427.0267	0.0002	1.0
24	7	0	25	7	0	1412.7621	1412.7619	0.0002	1.0
24	7	0	23	7	0	1427.3206	1427.3207	-0.0001	1.0
25	7	0	26	7	0	1412.4607	1412.4611	-0.0004	1.0
25	7	0	24	7	0	1427.6147	1427.6147	0.0000	1.0
25	7	0	24	6	0	1446.1956	1446.1958	-0.0002	1.0
26	7	0	27	7	0	1412.1601	1412.1601	0.0000	1.0
26	7	0	25	7	0	1427.9085	1427.9086	-0.0001	1.0
26	7	0	25	6	0	1446.4875	1446.4878	-0.0003	1.0
27	7	0	28	7	0	1411.8588	1411.8590	-0.0002	1.0
27	7	0	26	7	0	1428.2022	1428.2023	-0.0001	1.0
27	7	0	26	6	0	1446.7798	1446.7795	0.0003	1.0
28	7	0	29	7	0	1411.5575	1411.5577	-0.0002	1.0
28	7	0	27	7	0	1428.4961	1428.4960	0.0001	1.0
28	7	0	27	6	0	1447.0707	1447.0708	-0.0001	1.0
29	7	0	30	7	0	1411.2561	1411.2563	-0.0002	1.0

29	7	0	28	7	0	1428.7890	1428.7897	-0.0007	1.0
30	7	0	31	7	0	1410.9547	1410.9547	0.0001	1.0
30	7	0	29	7	0	1429.0828	1429.0832	-0.0004	1.0
31	7	0	32	7	0	1410.6526	1410.6529	-0.0003	1.0
31	7	0	30	7	0	1429.3766	1429.3766	0.0000	1.0
32	7	0	33	7	0	1410.3508	1410.3510	-0.0002	1.0
32	7	0	31	7	0	1429.6699	1429.6700	-0.0001	1.0
33	7	0	34	7	0	1410.0490	1410.0490	0.0001	1.0
33	7	0	32	7	0	1429.9632	1429.9634	-0.0002	1.0
34	7	0	35	7	0	1409.7467	1409.7468	-0.0001	1.0
34	7	0	33	7	0	1430.2570	1430.2566	0.0004	1.0
35	7	0	36	7	0	1409.4447	1409.4444	0.0003	1.0
35	7	0	34	7	0	1430.5495	1430.5499	-0.0004	1.0
36	7	0	37	7	0	1409.1419	1409.1420	-0.0001	0.1
36	7	0	35	7	0	1430.8429	1430.8430	-0.0001	1.0
37	7	0	38	7	0	1408.8395	1408.8394	0.0001	1.0
37	7	0	36	7	0	1431.1362	1431.1362	0.0000	1.0
38	7	0	39	7	0	1408.5372	1408.5367	0.0005	1.0
38	7	0	37	7	0	1431.4293	1431.4293	0.0000	1.0
39	7	0	40	7	0	1408.2341	1408.2339	0.0002	1.0
39	7	0	38	7	0	1431.7226	1431.7225	0.0001	1.0
40	7	0	41	7	0	1407.9311	1407.9310	0.0001	1.0
40	7	0	39	7	0	1432.0159	1432.0157	0.0003	1.0
41	7	0	42	7	0	1407.6282	1407.6281	0.0001	1.0
41	7	0	40	7	0	1432.3086	1432.3089	-0.0003	0.1
42	7	0	43	7	0	1407.3253	1407.3253	0.0000	1.0
42	7	0	41	7	0	1432.6024	1432.6023	0.0001	1.0
43	7	0	44	7	0	1407.0224	1407.0225	-0.0001	1.0
43	7	0	42	7	0	1432.8959	1432.8959	0.0000	1.0
10	8	0	11	8	0	1416.9919	1416.9920	-0.0001	1.0
10	8	0	9	8	0	1423.2294	1423.2293	0.0001	1.0
10	8	0	9	7	0	1444.6752	1444.6752	0.0000	1.0
11	8	0	12	8	0	1416.6935	1416.6936	-0.0001	1.0
11	8	0	10	8	0	1423.5252	1423.5249	0.0003	1.0
11	8	0	10	7	0	1444.9705	1444.9708	-0.0003	1.0
12	8	0	13	8	0	1416.3961	1416.3949	0.0012	1.0
12	8	0	11	8	0	1423.8208	1423.8204	0.0004	1.0
12	8	0	11	7	0	1445.2663	1445.2663	0.0001	1.0
13	8	0	14	8	0	1416.0963	1416.0962	0.0001	1.0
13	8	0	12	8	0	1424.1156	1424.1159	-0.0003	0.1
13	8	0	12	7	0	1445.5619	1445.5617	0.0003	1.0
14	8	0	15	8	0	1415.7972	1415.7975	-0.0003	1.0
14	8	0	13	8	0	1424.4105	1424.4113	-0.0008	0.1
14	8	0	13	7	0	1445.8574	1445.8570	0.0004	1.0
15	8	0	16	8	0	1415.4990	1415.4989	0.0002	1.0
15	8	0	14	8	0	1424.7064	1424.7068	-0.0004	1.0

15	8	0	14	7	0	1446.1527	1446.1524	0.0003	1.0
16	8	0	17	8	0	1415.2012	1415.2007	0.0005	1.0
16	8	0	15	8	0	1425.0034	1425.0029	0.0005	1.0
16	8	0	15	7	0	1446.4491	1446.4483	0.0008	1.0
17	8	0	18	8	0	1414.9051	1414.9059	-0.0008	1.0
17	8	0	16	8	0	1425.3014	1425.3023	-0.0009	1.0
17	8	0	16	7	0	1446.7469	1446.7475	-0.0006	1.0
18	8	0	19	8	0	1414.5924	1414.5914	0.0010	0.1
18	8	0	17	8	0	1425.5834	1425.5820	0.0014	1.0
18	8	0	17	7	0	1447.0283	1447.0270	0.0013	1.0
19	8	0	20	8	0	1414.2950	1414.2957	-0.0007	1.0
19	8	0	18	8	0	1425.8802	1425.8806	-0.0004	1.0
19	8	0	18	7	0	1447.3248	1447.3253	-0.0005	0.1
20	8	0	21	8	0	1413.9963	1413.9969	-0.0006	1.0
20	8	0	19	8	0	1426.1753	1426.1761	-0.0008	1.0
20	8	0	19	7	0	1447.6198	1447.6203	-0.0005	1.0
21	8	0	22	8	0	1413.6964	1413.6973	-0.0009	1.0
21	8	0	20	8	0	1426.4704	1426.4709	-0.0005	1.0
21	8	0	21	7	0	1441.6752	1441.6758	-0.0006	1.0
21	8	0	20	7	0	1447.9140	1447.9146	-0.0006	1.0
22	8	0	23	8	0	1413.3970	1413.3974	-0.0004	1.0
22	8	0	21	8	0	1426.7654	1426.7653	0.0001	0.1
22	8	0	22	7	0	1441.6724	1441.6724	0.0000	1.0
22	8	0	21	7	0	1448.2076	1448.2084	-0.0008	1.0
23	8	0	24	8	0	1413.0967	1413.0972	-0.0005	1.0
23	8	0	22	8	0	1427.0592	1427.0595	-0.0003	1.0
23	8	0	23	7	0	1441.6684	1441.6686	-0.0002	1.0
23	8	0	22	7	0	1448.5018	1448.5019	-0.0001	1.0
24	8	0	25	8	0	1412.7964	1412.7967	-0.0003	1.0
24	8	0	23	8	0	1427.3530	1427.3535	-0.0005	1.0
24	8	0	24	7	0	1441.6643	1441.6644	-0.0001	1.0
24	8	0	23	7	0	1448.7947	1448.7952	-0.0005	1.0
25	8	0	26	8	0	1412.4958	1412.4961	-0.0003	1.0
25	8	0	24	8	0	1427.6475	1427.6474	0.0001	0.1
25	8	0	25	7	0	1441.6598	1441.6600	-0.0002	1.0
25	8	0	24	7	0	1449.0876	1449.0881	-0.0005	1.0
26	8	0	27	8	0	1412.1948	1412.1954	-0.0006	1.0
26	8	0	25	8	0	1427.9396	1427.9411	-0.0015	0.1
26	8	0	26	7	0	1441.6547	1441.6552	-0.0005	1.0
26	8	0	25	7	0	1449.3806	1449.3807	-0.0001	1.0
27	8	0	28	8	0	1411.8932	1411.8944	-0.0012	0.1
27	8	0	26	8	0	1428.2346	1428.2348	-0.0002	0.1
27	8	0	27	7	0	1441.6500	1441.6502	-0.0002	1.0
27	8	0	26	7	0	1449.6730	1449.6731	-0.0001	1.0
28	8	0	29	8	0	1411.5930	1411.5933	-0.0003	1.0
28	8	0	27	8	0	1428.5281	1428.5283	-0.0002	0.1

28	8	0	28	7	0	1441.6442	1441.6448	-0.0006	1.0
29	8	0	30	8	0	1411.2919	1411.2920	-0.0001	1.0
29	8	0	28	8	0	1428.8213	1428.8217	-0.0004	1.0
29	8	0	29	7	0	1441.6391	1441.6391	0.0000	1.0
29	8	0	28	7	0	1450.2569	1450.2570	-0.0001	1.0
30	8	0	31	8	0	1410.9902	1410.9906	-0.0004	1.0
30	8	0	29	8	0	1429.1145	1429.1149	-0.0004	1.0
30	8	0	30	7	0	1441.6330	1441.6330	0.0000	1.0
30	8	0	29	7	0	1450.5483	1450.5485	-0.0002	1.0
31	8	0	32	8	0	1410.6892	1410.6890	0.0002	1.0
31	8	0	30	8	0	1429.4079	1429.4081	-0.0002	1.0
31	8	0	31	7	0	1441.6260	1441.6266	-0.0006	1.0
31	8	0	30	7	0	1450.8393	1450.8396	-0.0003	1.0
32	8	0	31	8	0	1429.7019	1429.7011	0.0008	1.0
32	8	0	32	7	0	1441.6195	1441.6198	-0.0003	1.0
32	8	0	31	7	0	1451.1302	1451.1305	-0.0003	1.0
33	8	0	32	8	0	1429.9939	1429.9941	-0.0002	1.0
33	8	0	33	7	0	1441.6125	1441.6126	-0.0001	1.0
33	8	0	32	7	0	1451.4206	1451.4210	-0.0004	1.0
34	8	0	33	8	0	1430.2862	1430.2870	-0.0008	1.0
34	8	0	34	7	0	1441.6054	1441.6050	0.0004	1.0
34	8	0	33	7	0	1451.7110	1451.7111	-0.0001	1.0
35	8	0	34	8	0	1430.5795	1430.5797	-0.0002	1.0
35	8	0	34	7	0	1452.0006	1452.0008	-0.0002	1.0
36	8	0	35	8	0	1430.8724	1430.8724	0.0000	1.0
36	8	0	35	7	0	1452.2902	1452.2902	0.0000	1.0
37	8	0	36	8	0	1431.1649	1431.1649	0.0000	1.0
37	8	0	36	7	0	1452.5792	1452.5792	0.0001	1.0
38	8	0	37	8	0	1431.4575	1431.4574	0.0001	1.0
38	8	0	37	7	0	1452.8680	1452.8677	0.0003	0.1
39	8	0	38	8	0	1431.7499	1431.7498	0.0001	1.0
40	8	0	39	8	0	1432.0422	1432.0421	0.0001	1.0
40	8	0	39	7	0	1453.4428	1453.4434	-0.0006	1.0
41	8	0	40	8	0	1432.3345	1432.3343	0.0002	1.0
41	8	0	40	7	0	1453.7310	1453.7306	0.0004	1.0
42	8	0	41	8	0	1432.6266	1432.6264	0.0002	1.0
9	9	0	8	8	0	1447.2675	1447.2668	0.0007	1.0
10	9	0	9	8	0	1447.5630	1447.5625	0.0005	1.0
11	9	0	10	8	0	1447.8582	1447.8581	0.0001	1.0
12	9	0	11	8	0	1448.1538	1448.1535	0.0003	1.0
13	9	0	12	8	0	1448.4492	1448.4488	0.0004	1.0
14	9	0	13	8	0	1448.7445	1448.7439	0.0006	1.0
15	9	0	14	8	0	1449.0389	1449.0389	0.0000	1.0
16	9	0	15	8	0	1449.3341	1449.3337	0.0004	1.0
17	9	0	16	8	0	1449.6290	1449.6284	0.0006	1.0
18	9	0	17	8	0	1449.9235	1449.9229	0.0006	1.0

19	9	0	18	8	0	1450.2182	1450.2172	0.0010	1.0
20	9	0	20	8	0	1444.5708	1444.5704	0.0005	1.0
20	9	0	19	8	0	1450.5117	1450.5114	0.0003	1.0
21	9	0	21	8	0	1444.5676	1444.5672	0.0004	1.0
21	9	0	20	8	0	1450.8059	1450.8054	0.0005	1.0
22	9	0	22	8	0	1444.5642	1444.5638	0.0004	1.0
22	9	0	21	8	0	1451.1001	1451.0992	0.0009	1.0
23	9	0	23	8	0	1444.5604	1444.5602	0.0002	1.0
23	9	0	22	8	0	1451.3936	1451.3928	0.0008	1.0
24	9	0	24	8	0	1444.5575	1444.5564	0.0011	1.0
24	9	0	23	8	0	1451.6864	1451.6862	0.0002	1.0
25	9	0	25	8	0	1444.5531	1444.5524	0.0007	1.0
25	9	0	24	8	0	1451.9800	1451.9794	0.0006	1.0
26	9	0	26	8	0	1444.5491	1444.5482	0.0009	1.0
26	9	0	25	8	0	1452.2728	1452.2724	0.0004	1.0
27	9	0	27	8	0	1444.5444	1444.5437	0.0007	1.0
27	9	0	26	8	0	1452.5655	1452.5653	0.0003	1.0
28	9	0	28	8	0	1444.5392	1444.5390	0.0002	1.0
28	9	0	27	8	0	1452.8585	1452.8578	0.0007	1.0
29	9	0	29	8	0	1444.5340	1444.5340	0.0000	1.0
29	9	0	28	8	0	1453.1501	1453.1502	-0.0001	1.0
30	9	0	30	8	0	1444.5290	1444.5288	0.0002	1.0
30	9	0	29	8	0	1453.4428	1453.4423	0.0005	1.0
31	9	0	31	8	0	1444.5236	1444.5233	0.0003	1.0
31	9	0	30	8	0	1453.7343	1453.7341	0.0002	1.0
32	9	0	32	8	0	1444.5180	1444.5175	0.0005	1.0
32	9	0	31	8	0	1454.0260	1454.0258	0.0003	1.0
33	9	0	33	8	0	1444.5114	1444.5115	-0.0001	1.0
33	9	0	32	8	0	1454.3172	1454.3171	0.0001	1.0
34	9	0	34	8	0	1444.5051	1444.5051	0.0000	1.0
34	9	0	33	8	0	1454.6094	1454.6082	0.0012	0.1
35	9	0	35	8	0	1444.4983	1444.4985	-0.0002	1.0
35	9	0	34	8	0	1454.8995	1454.8990	0.0005	1.0
36	9	0	36	8	0	1444.4910	1444.4915	-0.0005	1.0
36	9	0	35	8	0	1455.1892	1455.1895	-0.0003	1.0
37	9	0	37	8	0	1444.4841	1444.4842	-0.0001	1.0
38	9	0	38	8	0	1444.4762	1444.4765	-0.0003	1.0
39	9	0	39	8	0	1444.4681	1444.4685	-0.0004	1.0
40	9	0	40	8	0	1444.4596	1444.4601	-0.0005	1.0
41	9	0	41	8	0	1444.4508	1444.4514	-0.0006	1.0
10	10	0	9	9	0	1450.4414	1450.4428	-0.0014	1.0
11	10	0	10	9	0	1450.7380	1450.7384	-0.0004	1.0
12	10	0	11	9	0	1451.0340	1451.0339	0.0001	1.0
13	10	0	12	9	0	1451.3294	1451.3292	0.0002	1.0
14	10	0	13	9	0	1451.6250	1451.6243	0.0007	1.0
15	10	0	14	9	0	1451.9201	1451.9193	0.0008	1.0

16	10	0	15	9	0	1452.2144	1452.2141	0.0003	1.0
17	10	0	16	9	0	1452.5094	1452.5085	0.0009	1.0
18	10	0	17	9	0	1452.8037	1452.8042	-0.0005	1.0
19	10	0	18	9	0	1453.0980	1453.0984	-0.0004	1.0
20	10	0	19	9	0	1453.3926	1453.3926	0.0000	1.0
21	10	0	20	9	0	1453.6866	1453.6867	-0.0001	1.0
22	10	0	22	9	0	1447.4456	1447.4456	0.0000	1.0
23	10	0	23	9	0	1447.4428	1447.4422	0.0006	1.0
23	10	0	22	9	0	1454.2748	1454.2743	0.0005	1.0
24	10	0	24	9	0	1447.4387	1447.4386	0.0001	1.0
24	10	0	23	9	0	1454.5677	1454.5678	-0.0001	1.0
25	10	0	25	9	0	1447.4350	1447.4348	0.0002	1.0
25	10	0	24	9	0	1454.8614	1454.8612	0.0002	1.0
26	10	0	25	9	0	1455.1535	1455.1543	-0.0008	1.0
27	10	0	27	9	0	1447.4267	1447.4266	0.0001	1.0
28	10	0	28	9	0	1447.4220	1447.4222	-0.0002	1.0
28	10	0	27	9	0	1455.7399	1455.7400	-0.0001	1.0
29	10	0	29	9	0	1447.4173	1447.4175	-0.0002	1.0
29	10	0	28	9	0	1456.0326	1456.0325	0.0001	1.0
30	10	0	30	9	0	1447.4126	1447.4126	0.0000	1.0
30	10	0	29	9	0	1456.3245	1456.3248	-0.0003	1.0
31	10	0	30	10	0	1429.4714	1429.4715	-0.0001	1.0
31	10	0	31	9	0	1447.4072	1447.4074	-0.0002	1.0
32	10	0	31	10	0	1429.7641	1429.7642	-0.0001	1.0
32	10	0	32	9	0	1447.4013	1447.4019	-0.0006	1.0
33	10	0	32	10	0	1430.0562	1430.0567	-0.0005	1.0
33	10	0	33	9	0	1447.3955	1447.3962	-0.0007	1.0
34	10	0	33	10	0	1430.3489	1430.3491	-0.0002	1.0
34	10	0	34	9	0	1447.3902	1447.3902	0.0000	1.0
35	10	0	36	10	0	1409.5499	1409.5500	-0.0001	1.0
35	10	0	34	10	0	1430.6412	1430.6413	-0.0001	1.0
35	10	0	35	9	0	1447.3841	1447.3840	0.0001	1.0
36	10	0	37	10	0	1409.2479	1409.2477	0.0002	1.0
36	10	0	35	10	0	1430.9331	1430.9333	-0.0002	1.0
36	10	0	36	9	0	1447.3776	1447.3774	0.0002	1.0
37	10	0	38	10	0	1408.9454	1408.9453	0.0001	1.0
37	10	0	36	10	0	1431.2238	1431.2252	-0.0014	0.1
38	10	0	39	10	0	1408.6429	1408.6428	0.0002	1.0
38	10	0	37	10	0	1431.5181	1431.5169	0.0012	1.0
39	10	0	40	10	0	1408.3400	1408.3400	0.0000	1.0
39	10	0	38	10	0	1431.8085	1431.8085	0.0000	1.0
40	10	0	41	10	0	1408.0372	1408.0371	0.0001	1.0
40	10	0	39	10	0	1432.1000	1432.0999	0.0001	1.0
41	10	0	42	10	0	1407.7340	1407.7340	0.0000	1.0
41	10	0	40	10	0	1432.3912	1432.3912	0.0000	1.0
42	10	0	43	10	0	1407.4308	1407.4307	0.0001	1.0

42	10	0	41	10	0	1432.6820	1432.6823	-0.0003	1.0
43	10	0	44	10	0	1407.1271	1407.1272	-0.0001	1.0
43	10	0	42	10	0	1432.9736	1432.9732	0.0004	1.0
11	11	0	10	10	0	1453.6039	1453.6045	-0.0006	1.0
12	11	0	11	10	0	1453.8998	1453.9003	-0.0005	1.0
13	11	0	12	11	0	1424.1980	1424.1985	-0.0005	1.0
13	11	0	12	10	0	1454.1957	1454.1959	-0.0002	1.0
14	11	0	13	11	0	1424.4936	1424.4939	-0.0003	1.0
14	11	0	13	10	0	1454.4911	1454.4914	-0.0003	1.0
15	11	0	14	11	0	1424.7890	1424.7891	-0.0001	1.0
15	11	0	14	10	0	1454.7865	1454.7867	-0.0002	1.0
16	11	0	15	11	0	1425.0841	1425.0843	-0.0002	1.0
16	11	0	15	10	0	1455.0818	1455.0820	-0.0002	1.0
17	11	0	16	11	0	1425.3790	1425.3794	-0.0004	1.0
17	11	0	16	10	0	1455.3769	1455.3771	-0.0002	1.0
18	11	0	17	11	0	1425.6740	1425.6743	-0.0003	1.0
18	11	0	17	10	0	1455.6724	1455.6721	0.0003	0.1
19	11	0	18	11	0	1425.9691	1425.9691	0.0000	1.0
19	11	0	18	10	0	1455.9671	1455.9669	0.0002	1.0
20	11	0	19	11	0	1426.2636	1426.2638	-0.0002	1.0
20	11	0	19	10	0	1456.2615	1456.2616	-0.0001	1.0
21	11	0	20	11	0	1426.5582	1426.5584	-0.0002	1.0
21	11	0	20	10	0	1456.5567	1456.5562	0.0005	0.1
23	11	0	24	11	0	1413.1864	1413.1866	-0.0002	1.0
23	11	0	22	11	0	1427.1470	1427.1472	-0.0002	1.0
23	11	0	22	10	0	1457.1446	1457.1449	-0.0003	1.0
24	11	0	25	11	0	1412.8875	1412.8867	0.0008	1.0
24	11	0	23	11	0	1427.4416	1427.4414	0.0002	1.0
24	11	0	23	10	0	1457.4389	1457.4391	-0.0002	1.0
25	11	0	26	11	0	1412.5868	1412.5868	0.0000	1.0
25	11	0	24	11	0	1427.7356	1427.7355	0.0001	1.0
25	11	0	24	10	0	1457.7332	1457.7331	0.0001	1.0
26	11	0	27	11	0	1412.2868	1412.2867	0.0001	1.0
26	11	0	25	11	0	1428.0303	1428.0295	0.0008	0.1
26	11	0	25	10	0	1458.0272	1458.0269	0.0003	1.0
27	11	0	28	11	0	1411.9868	1411.9865	0.0003	1.0
27	11	0	27	10	0	1450.3004	1450.3004	0.0000	1.0
27	11	0	26	10	0	1458.3210	1458.3206	0.0004	1.0
28	11	0	29	11	0	1411.6864	1411.6862	0.0002	1.0
28	11	0	27	11	0	1428.6173	1428.6172	0.0002	1.0
28	11	0	28	10	0	1450.2970	1450.2968	0.0002	1.0
28	11	0	27	10	0	1458.6141	1458.6141	0.0000	1.0
29	11	0	30	11	0	1411.3859	1411.3858	0.0001	1.0
29	11	0	28	11	0	1428.9106	1428.9108	-0.0002	1.0
29	11	0	29	10	0	1450.2931	1450.2931	0.0000	1.0
29	11	0	28	10	0	1458.9078	1458.9075	0.0004	1.0

30	11	0	31	11	0	1411.0853	1411.0853	0.0000	1.0
30	11	0	29	11	0	1429.2036	1429.2044	-0.0008	1.0
30	11	0	29	10	0	1459.2002	1459.2006	-0.0004	1.0
31	11	0	32	11	0	1410.7840	1410.7847	-0.0007	0.1
31	11	0	30	11	0	1429.4979	1429.4979	0.0000	1.0
31	11	0	31	10	0	1450.2850	1450.2851	-0.0001	1.0
31	11	0	30	10	0	1459.4943	1459.4937	0.0006	1.0
32	11	0	33	11	0	1410.4837	1410.4840	-0.0003	1.0
32	11	0	32	10	0	1450.2808	1450.2809	-0.0001	1.0
32	11	0	31	10	0	1459.7866	1459.7865	0.0001	0.1
12	12	0	13	12	0	1416.4588	1416.4582	0.0006	1.0
12	12	0	11	11	0	1456.7262	1456.7264	-0.0002	1.0
13	12	0	14	12	0	1416.1603	1416.1602	0.0001	1.0
13	12	0	12	12	0	1424.1801	1424.1803	-0.0002	1.0
13	12	0	12	11	0	1457.0234	1457.0226	0.0009	1.0
14	12	0	15	12	0	1415.8616	1415.8621	-0.0005	1.0
14	12	0	13	12	0	1424.4753	1424.4763	-0.0010	1.0
14	12	0	13	11	0	1457.3191	1457.3187	0.0005	1.0
15	12	0	16	12	0	1415.5629	1415.5639	-0.0010	0.1
15	12	0	14	12	0	1424.7721	1424.7722	-0.0001	0.1
15	12	0	14	11	0	1457.6147	1457.6147	0.0001	1.0
16	12	0	17	12	0	1415.2659	1415.2656	0.0003	1.0
16	12	0	15	12	0	1425.0680	1425.0680	0.0001	0.1
16	12	0	15	11	0	1457.9105	1457.9105	0.0000	1.0
17	12	0	18	12	0	1414.9667	1414.9673	-0.0006	1.0
17	12	0	16	12	0	1425.3637	1425.3636	0.0001	1.0
18	12	0	17	12	0	1425.6593	1425.6592	0.0002	1.0
18	12	0	17	11	0	1458.5024	1458.5020	0.0004	1.0
19	12	0	20	12	0	1414.3700	1414.3701	-0.0001	1.0
19	12	0	18	12	0	1425.9546	1425.9546	0.0000	1.0
19	12	0	18	11	0	1458.7986	1458.7975	0.0011	1.0
20	12	0	21	12	0	1414.0713	1414.0714	-0.0001	1.0
20	12	0	19	12	0	1426.2500	1426.2499	0.0001	1.0
21	12	0	22	12	0	1413.7732	1413.7725	0.0007	1.0
21	12	0	20	12	0	1426.5450	1426.5451	-0.0001	1.0
21	12	0	20	11	0	1459.3873	1459.3882	-0.0009	1.0
22	12	0	23	12	0	1413.4733	1413.4735	-0.0002	0.1
22	12	0	21	12	0	1426.8398	1426.8401	-0.0003	1.0
23	12	0	24	12	0	1413.1744	1413.1744	0.0000	1.0
23	12	0	22	12	0	1427.1349	1427.1350	-0.0001	1.0
24	12	0	25	12	0	1412.8748	1412.8752	-0.0004	1.0
24	12	0	23	12	0	1427.4290	1427.4298	-0.0008	0.1
25	12	0	26	12	0	1412.5758	1412.5758	0.0000	1.0
25	12	0	24	12	0	1427.7245	1427.7244	0.0001	1.0

Table A-14. Observed and calculated (Fit A) transitions of acrolein in the $10^1 18^1 \leftarrow 18^1$ hot band (values in cm^{-1}).

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
8	8	0	7	7	0	1182.1427	1182.1432	-0.0005	1.0
9	8	0	8	7	0	1182.4404	1182.4404	0.0000	1.0
10	8	0	9	7	0	1182.7377	1182.7380	-0.0003	1.0
11	8	0	10	7	0	1183.0355	1183.0354	0.0002	1.0
12	8	0	11	7	0	1183.3329	1183.3328	0.0001	1.0
13	8	0	12	7	0	1183.6305	1183.6302	0.0003	1.0
14	8	0	13	7	0	1183.9279	1183.9277	0.0002	1.0
15	8	0	14	7	0	1184.2255	1184.2253	0.0002	1.0
16	8	0	15	7	0	1184.5228	1184.5230	-0.0002	1.0
17	8	0	16	7	0	1184.8205	1184.8209	-0.0004	1.0
9	9	0	8	8	0	1185.0025	1185.0030	-0.0005	1.0
10	9	0	9	8	0	1185.3001	1185.3003	-0.0002	1.0
11	9	0	10	8	0	1185.5976	1185.5976	0.0000	1.0
12	9	0	11	8	0	1185.8951	1185.8949	0.0002	1.0
13	9	0	12	8	0	1186.1924	1186.1921	0.0003	1.0
14	9	0	13	8	0	1186.4899	1186.4894	0.0005	1.0
15	9	0	14	8	0	1186.7872	1186.7866	0.0006	1.0
16	9	0	15	8	0	1187.0843	1187.0839	0.0005	1.0
17	9	0	16	8	0	1187.3817	1187.3811	0.0006	1.0
18	9	0	17	8	0	1187.6788	1187.6783	0.0005	1.0
20	9	0	19	8	0	1188.2729	1188.2729	0.0000	1.0
21	9	0	20	8	0	1188.5700	1188.5702	-0.0002	1.0
22	9	0	21	8	0	1188.8670	1188.8675	-0.0005	1.0
10	10	0	9	9	0	1187.8224	1187.8220	0.0004	1.0
11	10	0	10	9	0	1188.1226	1188.1225	0.0001	1.0
12	10	0	11	9	0	1188.4224	1188.4227	-0.0003	1.0
13	10	0	12	9	0	1188.7223	1188.7226	-0.0003	1.0
14	10	0	13	9	0	1189.0226	1189.0221	0.0005	1.0
15	10	0	14	9	0	1189.3208	1189.3214	-0.0006	1.0
16	10	0	15	9	0	1189.6200	1189.6203	-0.0003	1.0
17	10	0	16	9	0	1189.9186	1189.9189	-0.0003	1.0
11	11	0	10	10	0	1190.7212	1190.7215	-0.0003	1.0
12	11	0	11	10	0	1191.0190	1191.0191	-0.0001	1.0
13	11	0	12	10	0	1191.3162	1191.3166	-0.0004	1.0
14	11	0	13	10	0	1191.6131	1191.6138	-0.0007	1.0
15	11	0	14	10	0	1191.9100	1191.9109	-0.0009	1.0
16	11	0	15	10	0	1192.2070	1192.2077	-0.0007	0.1
18	11	0	17	10	0	1192.8003	1192.8005	-0.0002	1.0
19	11	0	18	10	0	1193.0969	1193.0964	0.0005	1.0
12	12	0	11	11	0	1193.5919	1193.5901	0.0018	1.0
13	12	0	12	11	0	1193.8879	1193.8870	0.0009	1.0
14	12	0	13	11	0	1194.1835	1194.1836	-0.0001	1.0

15	12	0	14	11	0	1194.4793	1194.4798	-0.0005	1.0
16	12	0	15	11	0	1194.7751	1194.7756	-0.0005	1.0
13	13	0	12	12	0	1196.4898	1196.4896	0.0003	1.0
14	13	0	13	12	0	1196.7862	1196.7869	-0.0007	1.0
15	13	0	14	12	0	1197.0827	1197.0838	-0.0011	1.0
16	13	0	15	12	0	1197.3797	1197.3801	-0.0004	1.0
17	13	0	16	12	0	1197.6776	1197.6758	0.0018	1.0

Table A-15. Observed and calculated (Fit A) transitions of acrolein in the $9^1 18^1 \leftarrow 18^1$ hot band (values in cm^{-1}).

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
6	0	6	6	1	5	1272.7296	1272.7296	0.0000	1.0
7	0	7	7	1	6	1272.6768	1272.6771	-0.0003	1.0
8	0	8	8	1	7	1272.6156	1272.6156	0.0001	1.0
9	0	9	9	1	8	1272.5446	1272.5445	0.0001	1.0
10	0	10	10	1	9	1272.4634	1272.4633	0.0001	0.1
11	0	11	11	1	10	1272.3714	1272.3714	0.0000	1.0
12	0	12	12	1	11	1272.2682	1272.2680	0.0002	1.0
14	0	14	14	1	13	1272.0246	1272.0246	0.0001	1.0
14	0	14	13	0	13	1278.3696	1278.3693	0.0003	1.0
15	0	15	15	1	14	1271.8830	1271.8833	-0.0003	0.1
16	0	16	16	1	15	1271.7275	1271.7284	-0.0009	0.1
17	0	17	17	1	16	1271.5598	1271.5596	0.0002	1.0
17	0	17	16	1	16	1278.5442	1278.5443	-0.0001	1.0
17	0	17	18	1	18	1268.4011	1268.4006	0.0006	1.0
18	0	18	18	1	17	1271.3768	1271.3765	0.0003	1.0
18	0	18	17	1	17	1278.8862	1278.8860	0.0002	1.0
18	0	18	19	1	19	1268.1672	1268.1669	0.0003	1.0
19	0	19	19	1	18	1271.1783	1271.1792	-0.0009	0.1
19	0	19	18	1	18	1279.2246	1279.2247	-0.0001	1.0
19	0	19	20	1	20	1267.9312	1267.9307	0.0006	1.0
19	0	19	18	0	18	1279.7888	1279.7889	-0.0001	1.0
20	0	20	20	1	19	1270.9677	1270.9679	-0.0002	1.0
20	0	20	19	1	19	1279.5600	1279.5599	0.0002	1.0
20	0	20	21	1	21	1267.6920	1267.6915	0.0005	1.0
21	0	21	21	1	20	1270.7429	1270.7426	0.0003	1.0
21	0	21	20	1	20	1279.8910	1279.8913	-0.0003	1.0
21	0	21	22	1	22	1267.4488	1267.4491	-0.0003	0.1
22	0	22	22	1	21	1270.5039	1270.5040	-0.0001	1.0
22	0	22	21	1	21	1280.2185	1280.2188	-0.0003	1.0
22	0	22	23	1	23	1267.2037	1267.2033	0.0004	0.1
23	0	23	24	1	24	1266.9541	1266.9540	0.0001	0.1
24	0	24	24	1	23	1269.9884	1269.9890	-0.0006	1.0

24	0	24	23	1	23	1280.8612	1280.8620	-0.0008	1.0
24	0	24	25	1	25	1266.7011	1266.7012	-0.0001	0.1
25	0	25	25	1	24	1269.7140	1269.7144	-0.0004	1.0
25	0	25	24	1	24	1281.1782	1281.1778	0.0004	1.0
25	0	25	26	1	26	1266.4445	1266.4451	-0.0006	1.0
26	0	26	26	1	25	1269.4293	1269.4295	-0.0002	1.0
26	0	26	25	1	25	1281.4895	1281.4898	-0.0003	1.0
26	0	26	27	1	27	1266.1850	1266.1856	-0.0006	1.0
6	1	5	6	0	6	1275.7852	1275.7852	0.0000	1.0
7	1	6	7	0	7	1275.8364	1275.8365	-0.0001	1.0
8	1	7	8	0	8	1275.8964	1275.8967	-0.0003	1.0
9	1	8	9	0	9	1275.9671	1275.9661	0.0010	1.0
10	1	9	10	0	10	1276.0454	1276.0455	-0.0001	1.0
11	1	10	11	0	11	1276.1354	1276.1354	0.0001	1.0
12	1	11	12	0	12	1276.2363	1276.2364	-0.0001	1.0
13	1	12	13	0	13	1276.3495	1276.3492	0.0003	1.0
14	1	13	14	0	14	1276.4743	1276.4744	-0.0001	1.0
15	1	14	15	0	15	1276.6124	1276.6124	0.0000	1.0
16	1	15	16	0	16	1276.7639	1276.7638	0.0001	1.0
12	1	11	13	2	12	1266.7748	1266.7749	-0.0001	1.0
13	1	12	14	2	13	1266.5622	1266.5622	0.0000	1.0
14	1	13	15	2	14	1266.3560	1266.3553	0.0007	1.0
10	1	10	11	0	11	1272.0411	1272.0415	-0.0004	1.0
10	1	10	10	2	9	1269.7393	1269.7394	-0.0001	1.0
10	1	10	11	1	11	1271.0564	1271.0563	0.0001	1.0
10	1	10	9	1	9	1277.1570	1277.1572	-0.0002	1.0
11	1	11	12	0	12	1271.6901	1271.6904	-0.0003	1.0
11	1	11	11	2	10	1269.6614	1269.6616	-0.0002	1.0
11	1	11	10	1	10	1277.4455	1277.4452	0.0003	1.0
12	1	12	13	0	13	1271.3391	1271.3397	-0.0006	1.0
12	1	12	11	0	11	1278.7196	1278.7195	0.0001	1.0
12	1	12	12	2	11	1269.5774	1269.5778	-0.0004	0.1
12	1	12	13	1	13	1270.4757	1270.4759	-0.0002	1.0
12	1	12	11	1	11	1277.7351	1277.7344	0.0007	0.1
13	1	13	14	1	14	1270.1817	1270.1821	-0.0004	1.0
13	1	13	12	1	12	1278.0189	1278.0187	0.0002	1.0
14	1	14	15	0	15	1270.6316	1270.6320	-0.0004	0.1
14	1	14	13	0	13	1279.1693	1279.1695	-0.0002	1.0
14	1	14	13	1	13	1278.3049	1278.3056	-0.0007	0.1
15	1	15	15	2	14	1269.2742	1269.2749	-0.0007	1.0
15	1	15	16	1	16	1269.6000	1269.6007	-0.0007	1.0
15	1	15	14	1	14	1278.5920	1278.5919	0.0001	0.1
16	1	16	17	0	17	1269.9308	1269.9310	-0.0002	1.0
16	1	16	15	0	15	1279.6183	1279.6182	0.0001	1.0
16	1	16	16	2	15	1269.1594	1269.1599	-0.0005	1.0
16	1	16	17	1	17	1269.3085	1269.3099	-0.0014	0.1

16	1	16	15	1	15	1278.8775	1278.8777	-0.0002	0.1
17	1	17	16	1	16	1279.1629	1279.1629	0.0000	0.1
18	1	18	19	0	19	1269.2383	1269.2387	-0.0004	1.0
18	1	18	17	0	17	1280.0690	1280.0688	0.0002	1.0
18	1	18	19	1	19	1268.7296	1268.7286	0.0010	1.0
19	1	19	18	0	18	1280.2969	1280.2963	0.0006	0.1
19	1	19	19	2	18	1268.7699	1268.7698	0.0001	1.0
19	1	19	18	1	18	1279.7318	1279.7321	-0.0003	0.1
20	1	20	19	0	19	1280.5257	1280.5260	-0.0003	0.1
20	1	20	21	1	21	1268.1470	1268.1476	-0.0006	0.1
20	1	20	19	1	19	1280.0162	1280.0160	0.0002	1.0
12	2	11	12	1	12	1278.9295	1278.9294	0.0001	1.0
12	2	11	11	1	10	1281.5202	1281.5204	-0.0002	1.0
12	2	11	13	3	10	1263.4610	1263.4599	0.0011	0.1
13	2	12	12	1	11	1281.7373	1281.7369	0.0004	1.0
13	2	12	13	3	11	1267.3266	1267.3266	0.0000	1.0
13	2	12	14	3	11	1263.1479	1263.1479	0.0000	1.0
13	2	12	14	2	13	1270.0953	1270.0954	-0.0001	1.0
14	2	13	14	1	14	1279.1143	1279.1148	-0.0005	1.0
14	2	13	14	3	12	1267.3129	1267.3126	0.0003	1.0
14	2	13	15	2	14	1269.7978	1269.7978	0.0000	1.0
15	2	14	15	1	15	1279.2182	1279.2181	0.0001	1.0
15	2	14	14	1	13	1282.1516	1282.1514	0.0002	1.0
15	2	14	15	3	13	1267.2961	1267.2959	0.0002	1.0
15	2	14	16	2	15	1269.5004	1269.5003	0.0001	1.0
16	2	15	16	1	16	1279.3283	1279.3286	-0.0003	1.0
16	2	15	16	3	14	1267.2759	1267.2760	-0.0001	0.1
16	2	15	17	2	16	1269.2030	1269.2030	0.0000	1.0
17	2	16	16	2	15	1279.2962	1279.2961	0.0001	1.0
18	2	17	18	1	18	1279.5708	1279.5709	-0.0001	1.0
12	2	10	12	1	11	1277.9739	1277.9741	-0.0002	1.0
12	2	10	11	1	11	1282.5138	1282.5142	-0.0004	1.0
12	2	10	13	2	11	1270.3591	1270.3595	-0.0004	1.0
14	2	12	14	1	13	1277.8763	1277.8765	-0.0002	1.0
14	2	12	14	3	11	1267.4864	1267.4868	-0.0004	1.0
14	2	12	15	3	13	1263.0210	1263.0209	0.0001	1.0
14	2	12	15	2	13	1269.7479	1269.7480	-0.0001	1.0
14	2	12	13	2	11	1278.4611	1278.4612	-0.0001	0.1
15	2	13	15	1	14	1277.8328	1277.8327	0.0001	1.0
15	2	13	15	3	12	1267.5208	1267.5206	0.0002	1.0
15	2	13	16	2	14	1269.4419	1269.4412	0.0007	1.0
16	2	14	15	1	15	1284.2659	1284.2653	0.0006	1.0
16	2	14	17	3	15	1262.5040	1262.5041	-0.0001	1.0
16	2	14	15	2	13	1279.0708	1279.0702	0.0006	1.0
17	2	15	17	3	14	1267.6064	1267.6068	-0.0004	1.0
17	2	15	18	2	16	1268.8259	1268.8259	0.0000	1.0

18	2	16	18	1	17	1277.7352	1277.7358	-0.0006	1.0
18	2	16	17	1	17	1285.2444	1285.2453	-0.0009	1.0
18	2	16	18	3	15	1267.6596	1267.6596	0.0001	1.0
19	2	17	19	1	18	1277.7184	1277.7187	-0.0003	1.0
19	2	17	19	3	16	1267.7183	1267.7188	-0.0005	1.0
4	3	0	5	4	0	1263.1369	1263.1374	-0.0005	1.0
5	3	0	6	4	0	1262.8392	1262.8390	0.0002	1.0
6	3	0	7	4	0	1262.5411	1262.5405	0.0007	1.0
7	3	0	8	4	0	1262.2423	1262.2419	0.0004	1.0
8	3	0	7	3	0	1276.6540	1276.6541	-0.0001	1.0
9	3	0	10	4	0	1261.6454	1261.6447	0.0007	1.0
9	3	0	8	3	0	1276.9514	1276.9510	0.0004	1.0
10	3	0	11	4	0	1261.3461	1261.3463	-0.0002	1.0
10	3	0	9	3	0	1277.2469	1277.2480	-0.0011	1.0
11	3	0	12	4	0	1261.0480	1261.0479	0.0001	1.0
11	3	0	10	3	0	1277.5451	1277.5449	0.0002	1.0
12	3	9	13	4	10	1260.7517	1260.7510	0.0007	1.0
12	3	0	11	3	0	1277.8434	1277.8419	0.0015	0.1
13	3	11	14	4	10	1260.4495	1260.4498	-0.0003	1.0
14	3	12	15	4	11	1260.1509	1260.1512	-0.0003	1.0
14	3	11	15	4	12	1260.1573	1260.1575	-0.0002	1.0
15	3	13	16	4	12	1259.8521	1259.8526	-0.0005	0.1
15	3	12	14	3	11	1278.7351	1278.7348	0.0003	1.0
15	3	12	16	4	13	1259.8624	1259.8620	0.0004	1.0
4	4	0	3	3	0	1285.1254	1285.1276	-0.0022	0.1
5	4	0	4	3	0	1285.4246	1285.4247	-0.0001	1.0
6	4	0	5	3	0	1285.7211	1285.7218	-0.0007	1.0
22	4	19	23	5	18	1255.0234	1255.0232	0.0002	1.0
23	4	20	24	5	19	1254.7263	1254.7263	0.0000	1.0
24	4	21	25	5	20	1254.4297	1254.4297	0.0000	1.0
25	4	22	26	5	21	1254.1331	1254.1334	-0.0003	1.0
26	4	23	27	5	22	1253.8372	1253.8373	-0.0001	1.0
26	4	23	25	3	22	1291.4633	1291.4635	-0.0002	1.0
27	4	24	28	5	23	1253.5419	1253.5415	0.0004	1.0
27	4	24	26	3	23	1291.7196	1291.7201	-0.0005	1.0
22	4	18	23	5	19	1255.0274	1255.0274	0.0000	1.0
23	4	19	24	5	20	1254.7317	1254.7322	-0.0005	1.0
24	4	20	25	5	21	1254.4379	1254.4373	0.0006	1.0
25	4	21	26	5	22	1254.1445	1254.1443	0.0002	1.0
26	4	22	27	5	23	1253.8520	1253.8521	-0.0001	0.1
26	4	22	25	3	23	1291.6426	1291.6425	0.0001	1.0
27	4	23	28	5	24	1253.5615	1253.5612	0.0003	1.0
27	4	23	26	3	24	1291.9449	1291.9448	0.0001	1.0
28	4	24	29	5	25	1253.2719	1253.2717	0.0002	0.1
5	5	0	4	4	0	1288.1985	1288.1984	0.0001	1.0
6	5	0	5	4	0	1288.4957	1288.4957	0.0000	1.0

7	5	0	6	4	0	1288.7928	1288.7929	-0.0001	1.0
7	5	0	8	6	0	1256.7586	1256.7585	0.0001	1.0
8	5	0	7	4	0	1289.0892	1289.0899	-0.0007	1.0
10	5	0	9	4	0	1289.6842	1289.6837	0.0006	1.0
10	5	0	11	6	0	1255.8630	1255.8629	0.0001	1.0
11	5	0	10	4	0	1289.9797	1289.9803	-0.0006	1.0
11	5	0	12	6	0	1255.5643	1255.5643	0.0000	1.0
12	5	0	13	6	0	1255.2657	1255.2657	0.0000	1.0
13	5	0	14	6	0	1254.9672	1254.9670	0.0002	1.0
15	5	0	16	6	0	1254.3699	1254.3698	0.0001	1.0
16	5	0	17	6	0	1254.0716	1254.0712	0.0004	1.0
18	5	0	19	6	0	1253.4743	1253.4744	-0.0001	1.0
19	5	0	20	6	0	1253.1761	1253.1761	0.0000	1.0
20	5	0	21	6	0	1252.8779	1252.8780	-0.0001	1.0
20	5	0	19	4	0	1292.6393	1292.6391	0.0003	1.0
21	5	0	22	6	0	1252.5804	1252.5801	0.0004	1.0
21	5	0	20	4	0	1292.9325	1292.9327	-0.0002	1.0
22	5	0	23	6	0	1252.2822	1252.2823	-0.0001	1.0
23	5	0	24	6	0	1251.9849	1251.9848	0.0001	1.0
23	5	19	22	4	18	1293.5174	1293.5169	0.0005	1.0
23	5	18	22	4	19	1293.5203	1293.5197	0.0006	1.0
24	5	0	25	6	0	1251.6876	1251.6876	0.0000	1.0
24	5	20	23	4	19	1293.8084	1293.8082	0.0002	1.0
24	5	19	23	4	20	1293.8120	1293.8122	-0.0002	0.1
25	5	0	26	6	0	1251.3904	1251.3907	-0.0003	1.0
25	5	21	24	4	20	1294.0984	1294.0987	-0.0003	1.0
25	5	20	24	4	21	1294.1039	1294.1042	-0.0003	1.0
26	5	0	27	6	0	1251.0939	1251.0941	-0.0002	1.0
26	5	22	25	4	21	1294.3880	1294.3881	-0.0001	1.0
26	5	21	25	4	22	1294.3950	1294.3958	-0.0008	1.0
27	5	0	28	6	0	1250.7977	1250.7979	-0.0002	1.0
27	5	23	26	4	22	1294.6759	1294.6765	-0.0006	1.0
27	5	22	26	4	23	1294.6875	1294.6870	0.0006	1.0
28	5	0	29	6	0	1250.5017	1250.5021	-0.0004	1.0
29	5	25	30	6	24	1250.2074	1250.2063	0.0011	1.0
29	5	25	28	4	24	1295.2496	1295.2491	0.0005	1.0
29	5	24	28	4	25	1295.2683	1295.2680	0.0004	1.0
30	5	26	31	6	25	1249.9109	1249.9113	-0.0004	1.0
30	5	26	29	4	25	1295.5336	1295.5331	0.0005	0.1
6	6	0	5	5	0	1291.2664	1291.2652	0.0012	1.0
7	6	0	6	5	0	1291.5640	1291.5654	-0.0014	1.0
8	6	0	7	5	0	1291.8616	1291.8631	-0.0015	1.0
10	6	0	9	5	0	1292.4562	1292.4573	-0.0011	1.0
10	6	0	11	7	0	1253.1206	1253.1218	-0.0012	1.0
11	6	0	10	5	0	1292.7528	1292.7540	-0.0012	1.0
11	6	0	12	7	0	1252.8223	1252.8230	-0.0007	1.0

12	6	0	13	7	0	1252.5238	1252.5242	-0.0004	1.0
13	6	0	12	5	0	1293.3468	1293.3471	-0.0003	1.0
13	6	0	14	7	0	1252.2252	1252.2254	-0.0002	1.0
14	6	0	13	5	0	1293.6432	1293.6434	-0.0002	1.0
15	6	0	14	5	0	1293.9398	1293.9395	0.0003	1.0
16	6	0	15	5	0	1294.2357	1294.2355	0.0002	1.0
17	6	0	18	7	0	1251.0301	1251.0296	0.0005	1.0
17	6	0	16	5	0	1294.5316	1294.5312	0.0004	1.0
18	6	0	19	7	0	1250.7310	1250.7306	0.0004	1.0
18	6	0	17	5	0	1294.8276	1294.8267	0.0009	1.0
19	6	0	18	5	0	1295.1227	1295.1220	0.0007	1.0
20	6	0	21	7	0	1250.1335	1250.1328	0.0007	1.0
20	6	0	19	5	0	1295.4176	1295.4170	0.0006	1.0
21	6	0	22	7	0	1249.8346	1249.8340	0.0007	1.0
21	6	0	20	5	0	1295.7125	1295.7118	0.0007	1.0
22	6	0	23	7	0	1249.5359	1249.5352	0.0007	1.0
23	6	0	24	7	0	1249.2373	1249.2365	0.0008	1.0
23	6	0	22	5	0	1296.3011	1296.3004	0.0007	1.0
24	6	0	25	7	0	1248.9387	1248.9380	0.0007	1.0
25	6	0	26	7	0	1248.6402	1248.6396	0.0006	1.0
26	6	0	27	7	0	1248.3420	1248.3414	0.0006	1.0
26	6	0	25	5	0	1297.1816	1297.1807	0.0010	1.0
27	6	0	28	7	0	1248.0438	1248.0433	0.0005	1.0
27	6	0	26	5	0	1297.4739	1297.4733	0.0006	1.0
28	6	0	29	7	0	1247.7457	1247.7455	0.0003	1.0
29	6	0	30	7	0	1247.4482	1247.4478	0.0004	1.0
30	6	0	31	7	0	1247.1506	1247.1505	0.0002	1.0
31	6	0	32	7	0	1246.8529	1246.8534	-0.0005	1.0
32	6	0	33	7	0	1246.5561	1246.5566	-0.0005	1.0
33	6	0	34	7	0	1246.2592	1246.2601	-0.0009	1.0
34	6	0	35	7	0	1245.9631	1245.9640	-0.0009	1.0
7	7	0	6	6	0	1294.3467	1294.3456	0.0011	1.0
10	7	0	9	6	0	1295.2370	1295.2363	0.0007	1.0
11	7	0	10	6	0	1295.5336	1295.5331	0.0006	1.0
12	7	0	11	6	0	1295.8299	1295.8296	0.0003	1.0
14	7	0	13	6	0	1296.4229	1296.4224	0.0005	1.0
15	7	0	14	6	0	1296.7186	1296.7186	0.0000	1.0
16	7	0	15	6	0	1297.0142	1297.0147	-0.0005	1.0
17	7	0	16	6	0	1297.3102	1297.3106	-0.0004	1.0
18	7	0	17	6	0	1297.6057	1297.6063	-0.0006	1.0
19	7	0	18	6	0	1297.9013	1297.9019	-0.0006	1.0
22	7	0	21	6	0	1298.7865	1298.7874	-0.0009	1.0
24	7	0	25	8	0	1246.1959	1246.1971	-0.0012	1.0
24	7	0	23	6	0	1299.3757	1299.3768	-0.0011	1.0
25	7	0	26	8	0	1245.8969	1245.8979	-0.0010	1.0
25	7	0	24	6	0	1299.6701	1299.6710	-0.0009	1.0

26	7	0	27	8	0	1245.5980	1245.5988	-0.0008	1.0
26	7	0	25	6	0	1299.9642	1299.9651	-0.0009	1.0
27	7	0	28	8	0	1245.2994	1245.2998	-0.0004	1.0
27	7	0	26	6	0	1300.2585	1300.2588	-0.0003	1.0
28	7	0	29	8	0	1245.0017	1245.0008	0.0009	1.0
29	7	0	30	8	0	1244.7046	1244.7020	0.0026	0.0
29	7	0	28	6	0	1300.8485	1300.8454	0.0031	0.0
30	7	0	31	8	0	1244.4138	1244.4033	0.0105	0.0
30	7	0	29	6	0	1301.1490	1301.1383	0.0108	0.0
31	7	0	32	8	0	1244.0784	1244.1048	-0.0264	0.0
31	7	0	30	6	0	1301.4041	1301.4307	-0.0266	0.0
32	7	0	33	8	0	1243.7916	1243.8064	-0.0148	0.0
32	7	0	31	6	0	1301.7077	1301.7228	-0.0151	0.0
33	7	0	34	8	0	1243.4966	1243.5082	-0.0116	0.0
33	7	0	32	6	0	1302.0030	1302.0145	-0.0115	0.0
34	7	0	35	8	0	1243.2000	1243.2102	-0.0102	0.0
34	7	0	33	6	0	1302.2956	1302.3058	-0.0102	0.0
35	7	0	35	6	0	1292.1506	1292.1605	-0.0099	0.0
35	7	0	36	8	0	1242.9023	1242.9125	-0.0102	0.0
35	7	0	34	6	0	1302.5870	1302.5967	-0.0097	0.0
36	7	0	36	6	0	1292.1427	1292.1518	-0.0091	0.0
37	7	0	37	6	0	1292.1326	1292.1426	-0.0100	0.0
38	7	0	38	6	0	1292.1226	1292.1329	-0.0103	0.0
39	7	0	39	6	0	1292.1120	1292.1225	-0.0105	0.0
40	7	0	40	6	0	1292.1006	1292.1115	-0.0109	0.0
41	7	0	41	6	0	1292.0887	1292.0997	-0.0110	0.0
8	8	0	7	7	0	1297.4189	1297.4183	0.0006	1.0
9	8	0	8	7	0	1297.7156	1297.7151	0.0005	1.0
10	8	0	9	7	0	1298.0123	1298.0119	0.0004	1.0
11	8	0	10	7	0	1298.3089	1298.3085	0.0004	1.0
12	8	0	11	7	0	1298.6055	1298.6051	0.0004	1.0
15	8	0	14	7	0	1299.4943	1299.4939	0.0004	1.0
17	8	0	16	7	0	1300.0862	1300.0859	0.0003	1.0
18	8	0	17	7	0	1300.3813	1300.3816	-0.0003	0.1
19	8	0	19	7	0	1295.0184	1295.0180	0.0004	1.0
19	8	0	18	7	0	1300.6774	1300.6772	0.0002	0.1
20	8	0	20	7	0	1295.0158	1295.0155	0.0003	1.0
20	8	0	19	7	0	1300.9728	1300.9727	0.0001	1.0
21	8	0	21	7	0	1295.0127	1295.0127	0.0000	1.0
21	8	0	20	7	0	1301.2681	1301.2680	0.0001	1.0
22	8	0	22	7	0	1295.0099	1295.0098	0.0001	1.0
22	8	0	21	7	0	1301.5632	1301.5631	0.0001	1.0
23	8	0	23	7	0	1295.0065	1295.0067	-0.0002	1.0
23	8	0	22	7	0	1301.8578	1301.8581	-0.0003	1.0
24	8	0	24	7	0	1295.0033	1295.0033	0.0000	1.0
24	8	0	23	7	0	1302.1530	1302.1528	0.0002	1.0

25	8	0	25	7	0	1294.9996	1294.9998	-0.0002	1.0
25	8	0	24	7	0	1302.4474	1302.4474	0.0000	1.0
26	8	0	26	7	0	1294.9962	1294.9960	0.0002	1.0
26	8	0	25	7	0	1302.7417	1302.7418	-0.0001	1.0
27	8	0	27	7	0	1294.9919	1294.9919	0.0000	1.0
27	8	0	26	7	0	1303.0358	1303.0360	-0.0002	1.0
28	8	0	28	7	0	1294.9873	1294.9876	-0.0003	1.0
28	8	0	27	7	0	1303.3297	1303.3299	-0.0002	1.0
29	8	0	29	7	0	1294.9826	1294.9831	-0.0005	1.0
29	8	0	28	7	0	1303.6236	1303.6236	0.0000	1.0
30	8	0	30	7	0	1294.9779	1294.9783	-0.0004	1.0
30	8	0	29	7	0	1303.9173	1303.9171	0.0002	1.0
31	8	0	31	7	0	1294.9733	1294.9731	0.0002	1.0
31	8	0	30	7	0	1304.2103	1304.2103	0.0000	1.0
32	8	0	32	7	0	1294.9676	1294.9677	-0.0001	1.0
32	8	0	31	7	0	1304.5032	1304.5033	-0.0001	1.0
33	8	0	33	7	0	1294.9619	1294.9620	-0.0001	1.0
34	8	0	34	7	0	1294.9558	1294.9559	-0.0001	1.0
34	8	0	33	7	0	1305.0883	1305.0883	0.0000	1.0
35	8	0	35	7	0	1294.9492	1294.9495	-0.0003	1.0
35	8	0	34	7	0	1305.3804	1305.3804	0.0000	1.0
36	8	0	35	7	0	1305.6725	1305.6722	0.0003	1.0
37	8	0	36	7	0	1305.9647	1305.9636	0.0011	0.1
38	8	0	37	7	0	1306.2555	1306.2547	0.0009	1.0
39	8	0	38	7	0	1306.5464	1306.5453	0.0011	1.0
9	9	0	8	8	0	1300.4862	1300.4860	0.0002	1.0
10	9	0	9	8	0	1300.7836	1300.7835	0.0001	1.0
11	9	0	10	8	0	1301.0811	1301.0809	0.0002	1.0
12	9	0	11	8	0	1301.3785	1301.3784	0.0001	1.0
13	9	0	12	8	0	1301.6760	1301.6758	0.0002	1.0
15	9	0	14	8	0	1302.2706	1302.2706	0.0000	1.0
16	9	0	15	8	0	1302.5679	1302.5679	0.0000	1.0
17	9	0	16	8	0	1302.8654	1302.8653	0.0001	1.0
18	9	0	17	8	0	1303.1627	1303.1627	0.0000	1.0
19	9	0	18	8	0	1303.4602	1303.4601	0.0001	1.0
20	9	0	19	8	0	1303.7576	1303.7575	0.0001	1.0
21	9	0	20	8	0	1304.0549	1304.0549	0.0000	1.0
22	9	0	21	8	0	1304.3525	1304.3524	0.0001	1.0
23	9	0	22	8	0	1304.6500	1304.6499	0.0001	1.0
24	9	0	23	8	0	1304.9474	1304.9475	-0.0001	1.0
25	9	0	24	8	0	1305.2451	1305.2452	-0.0001	1.0
26	9	0	25	8	0	1305.5429	1305.5430	-0.0001	1.0
28	9	0	29	10	0	1239.5432	1239.5436	-0.0004	1.0
28	9	0	27	8	0	1306.1391	1306.1390	0.0001	0.1
29	9	0	30	10	0	1239.2477	1239.2477	0.0000	1.0
29	9	0	28	8	0	1306.4375	1306.4373	0.0002	0.1

31	9	0	32	10	0	1238.6576	1238.6574	0.0002	1.0
32	9	0	33	10	0	1238.3632	1238.3631	0.0001	0.1
33	9	0	34	10	0	1238.0709	1238.0696	0.0013	0.0
34	9	0	35	10	0	1237.7785	1237.7768	0.0017	0.0
34	9	0	33	8	0	1307.9355	1307.9340	0.0015	0.0
35	9	0	36	10	0	1237.4877	1237.4850	0.0028	0.0
35	9	0	35	8	0	1297.8098	1297.8072	0.0026	0.0
35	9	0	34	8	0	1308.2376	1308.2349	0.0027	0.0
36	9	0	36	8	0	1297.8149	1297.8105	0.0044	0.0
10	10	0	11	11	0	1242.1438	1242.1442	-0.0004	1.0
11	10	0	12	11	0	1241.8452	1241.8454	-0.0002	1.0
12	10	0	13	11	0	1241.5461	1241.5466	-0.0005	1.0
13	10	0	14	11	0	1241.2475	1241.2476	-0.0001	1.0
13	10	0	12	9	0	1304.4291	1304.4293	-0.0002	0.1
14	10	0	15	11	0	1240.9484	1240.9486	-0.0002	1.0
15	10	0	16	11	0	1240.6493	1240.6495	-0.0002	1.0
15	10	0	14	9	0	1305.0226	1305.0227	-0.0001	1.0
16	10	0	17	11	0	1240.3503	1240.3504	-0.0001	1.0
17	10	0	18	11	0	1240.0511	1240.0512	-0.0001	1.0
17	10	0	16	9	0	1305.6155	1305.6158	-0.0003	1.0
18	10	0	19	11	0	1239.7519	1239.7519	0.0000	1.0
18	10	0	17	9	0	1305.9122	1305.9123	-0.0001	1.0
19	10	0	20	11	0	1239.4524	1239.4526	-0.0002	1.0
19	10	0	18	9	0	1306.2088	1306.2086	0.0002	1.0
20	10	0	21	11	0	1239.1529	1239.1533	-0.0004	0.1
20	10	0	19	9	0	1306.5042	1306.5049	-0.0007	0.1
21	10	0	22	11	0	1238.8539	1238.8539	0.0000	1.0
21	10	0	20	9	0	1306.8012	1306.8010	0.0002	1.0
22	10	0	23	11	0	1238.5544	1238.5545	-0.0001	1.0
22	10	0	21	9	0	1307.0972	1307.0971	0.0002	1.0
23	10	0	24	11	0	1238.2551	1238.2550	0.0001	1.0
23	10	0	22	9	0	1307.3930	1307.3930	0.0000	1.0
24	10	0	25	11	0	1237.9556	1237.9555	0.0001	0.1
25	10	0	26	11	0	1237.6562	1237.6561	0.0001	1.0
25	10	0	24	9	0	1307.9844	1307.9846	-0.0002	1.0
26	10	0	27	11	0	1237.3563	1237.3566	-0.0003	1.0
26	10	0	25	9	0	1308.2802	1308.2802	0.0000	1.0
27	10	0	28	11	0	1237.0570	1237.0571	-0.0001	1.0
27	10	0	26	9	0	1308.5757	1308.5757	0.0000	1.0
28	10	0	29	11	0	1236.7572	1236.7576	-0.0004	1.0
28	10	0	27	9	0	1308.8712	1308.8711	0.0001	1.0
29	10	0	30	11	0	1236.4585	1236.4581	0.0004	1.0
29	10	0	28	9	0	1309.1663	1309.1663	0.0000	1.0
30	10	0	29	9	0	1309.4617	1309.4614	0.0003	1.0
11	11	0	12	12	0	1239.0514	1239.0525	-0.0011	1.0
11	11	0	10	10	0	1306.5554	1306.5563	-0.0009	1.0

12	11	0	13	12	0	1238.7534	1238.7538	-0.0004	1.0
12	11	0	11	10	0	1306.8529	1306.8534	-0.0005	1.0
13	11	0	14	12	0	1238.4549	1238.4551	-0.0002	1.0
13	11	0	12	10	0	1307.1508	1307.1506	0.0002	1.0
14	11	0	15	12	0	1238.1569	1238.1563	0.0006	1.0
14	11	0	13	10	0	1307.4481	1307.4477	0.0005	1.0
15	11	0	16	12	0	1237.8577	1237.8575	0.0002	1.0
15	11	0	14	10	0	1307.7452	1307.7447	0.0005	1.0
16	11	0	17	12	0	1237.5594	1237.5587	0.0007	1.0
16	11	0	15	10	0	1308.0424	1308.0418	0.0007	1.0
17	11	0	18	12	0	1237.2603	1237.2600	0.0004	1.0
17	11	0	16	10	0	1308.3392	1308.3388	0.0004	1.0
18	11	0	19	12	0	1236.9615	1236.9612	0.0003	1.0
18	11	0	17	10	0	1308.6363	1308.6359	0.0004	1.0
19	11	0	20	12	0	1236.6626	1236.6627	-0.0001	1.0
19	11	0	18	10	0	1308.9329	1308.9331	-0.0002	1.0
20	11	0	21	12	0	1236.3639	1236.3644	-0.0005	1.0
20	11	0	19	10	0	1309.2305	1309.2305	0.0000	1.0
21	11	0	22	12	0	1236.0664	1236.0667	-0.0003	1.0
21	11	0	20	10	0	1309.5284	1309.5285	-0.0001	1.0
22	11	0	23	12	0	1235.7700	1235.7707	-0.0007	1.0
22	11	0	21	10	0	1309.8276	1309.8281	-0.0005	1.0
23	11	0	24	12	0	1235.4796	1235.4799	-0.0003	0.1
23	11	0	22	10	0	1310.1339	1310.1330	0.0010	1.0
24	11	0	25	12	0	1235.1454	1235.1463	-0.0009	1.0
24	11	0	23	10	0	1310.3933	1310.3949	-0.0016	0.1
25	11	0	26	12	0	1234.8551	1234.8547	0.0005	1.0
25	11	0	24	10	0	1310.6993	1310.6987	0.0006	1.0
26	11	0	27	12	0	1234.5592	1234.5583	0.0009	1.0
26	11	0	25	10	0	1310.9982	1310.9977	0.0005	1.0
27	11	0	28	12	0	1234.2603	1234.2604	-0.0001	1.0
27	11	0	26	10	0	1311.2955	1311.2951	0.0004	1.0
29	11	0	28	10	0	1311.8875	1311.8881	-0.0006	1.0
30	11	0	29	10	0	1312.1833	1312.1840	-0.0007	1.0
12	12	0	13	13	0	1235.8586	1235.8583	0.0003	1.0
12	12	0	11	11	0	1309.4707	1309.4705	0.0002	1.0
13	12	0	14	13	0	1235.5596	1235.5598	-0.0002	1.0
13	12	0	12	11	0	1309.7679	1309.7680	-0.0001	1.0
14	12	0	15	13	0	1235.2612	1235.2613	-0.0001	1.0
14	12	0	13	11	0	1310.0655	1310.0654	0.0001	1.0
15	12	0	16	13	0	1234.9626	1234.9628	-0.0002	1.0
15	12	0	14	11	0	1310.3628	1310.3628	0.0000	1.0
16	12	0	17	13	0	1234.6643	1234.6643	0.0000	1.0
16	12	0	15	11	0	1310.6603	1310.6602	0.0001	1.0
17	12	0	18	13	0	1234.3656	1234.3657	-0.0001	0.1
17	12	0	16	11	0	1310.9576	1310.9576	0.0000	1.0

18	12	0	19	13	0	1234.0674	1234.0672	0.0003	0.1
18	12	0	17	11	0	1311.2546	1311.2549	-0.0003	1.0
19	12	0	20	13	0	1233.7685	1233.7686	-0.0001	0.1
19	12	0	18	11	0	1311.5524	1311.5522	0.0002	1.0

Table A-16. Observed and calculated (Fit B) transitions of acrolein in the $6^1 \leftarrow 0$ fundamental band (values in cm^{-1}).

*These perturbing state transitions are assigned to the $10^1 13^1 18^1$ state.

**These perturbing state transitions are assigned to the $12^2 13^1 18^1$ state.

***These perturbing state transitions are assigned to the $13^4 18^2$ state.

****These perturbing state transitions are assigned to the $11^1 12^1 18^1$ state.

#Complicated interaction involving $Ka = 8$ of 6^1 and $11^1 12^1 18^1$, and $Ka = 10$ of $7^1 18^1$.

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
3	0	3	3	1	2	1624.4223	1624.4224	-0.0001	1.0
4	0	4	5	1	5	1623.0806	1623.0805	0.0002	1.0
4	0	4	4	1	3	1624.3905	1624.3910	-0.0005	1.0
5	0	5	6	1	6	1622.8204	1622.8205	-0.0001	1.0
5	0	5	5	1	4	1624.3510	1624.3511	-0.0001	1.0
6	0	6	7	1	7	1622.5654	1622.5657	-0.0003	1.0
6	0	6	6	1	5	1624.3026	1624.3025	0.0002	1.0
7	0	7	7	1	6	1624.2444	1624.2446	-0.0002	1.0
8	0	8	8	1	7	1624.1770	1624.1770	0.0001	1.0
9	0	9	10	1	10	1621.8282	1621.8282	0.0000	1.0
9	0	9	9	1	8	1624.0989	1624.0990	-0.0001	1.0
10	0	10	10	1	9	1624.0102	1624.0102	0.0000	1.0
10	0	10	9	1	9	1627.6697	1627.6699	-0.0002	1.0
11	0	11	11	1	10	1623.9096	1623.9099	-0.0003	1.0
11	0	11	10	1	10	1628.0104	1628.0106	-0.0002	1.0
12	0	12	12	1	11	1623.7973	1623.7974	-0.0001	1.0
12	0	12	11	1	11	1628.3522	1628.3524	-0.0002	1.0
13	0	13	14	1	14	1620.8838	1620.8840	-0.0002	1.0
13	0	13	13	1	12	1623.6720	1623.6721	-0.0001	1.0
13	0	13	12	1	12	1628.6946	1628.6945	0.0001	1.0
14	0	14	15	1	15	1620.6501	1620.6502	-0.0001	1.0
14	0	14	14	1	13	1623.5335	1623.5334	0.0002	1.0
14	0	14	13	1	13	1629.0362	1629.0363	-0.0001	1.0
15	0	15	15	1	14	1623.3806	1623.3807	-0.0001	1.0
15	0	15	14	1	14	1629.3767	1629.3769	-0.0002	1.0
16	0	16	17	1	17	1620.1798	1620.1799	-0.0001	1.0
16	0	16	17	0	17	1620.8309	1620.8315	-0.0006	1.0
16	0	16	16	1	15	1623.2135	1623.2136	-0.0001	1.0
17	0	17	17	1	16	1623.0318	1623.0317	0.0001	1.0
18	0	18	18	1	17	1622.8345	1622.8348	-0.0003	1.0

19	0	19	18	1	18	1630.7145	1630.7143	0.0002	1.0
20	0	20	20	1	19	1622.3991	1622.3960	0.0031	0.0
21	0	21	22	1	22	1618.9604	1618.9608	-0.0004	1.0
21	0	21	20	1	20	1631.3607	1631.3609	-0.0002	1.0
21	0	21	20	0	20	1631.8434	1631.8441	-0.0007	1.0
31	0	31	30	1	30	1634.3351	1634.3348	0.0003	1.0
8	1	8	9	0	9	1624.4109	1624.4111	-0.0002	1.0
9	1	9	10	0	10	1624.0589	1624.0590	-0.0001	1.0
9	1	9	8	0	8	1629.6721	1629.6722	-0.0001	1.0
10	1	10	11	0	11	1623.7032	1623.7036	-0.0004	1.0
10	1	10	9	0	9	1629.9009	1629.9007	0.0002	1.0
11	1	11	12	0	12	1623.3457	1623.3456	0.0001	1.0
11	1	11	10	0	10	1630.1245	1630.1248	-0.0003	1.0
12	1	12	13	0	13	1622.9857	1622.9858	-0.0001	1.0
13	1	13	13	2	12	1620.8993	1620.8992	0.0001	1.0
14	1	14	15	0	15	1622.2641	1622.2639	0.0002	1.0
16	1	16	17	1	17	1620.8927	1620.8923	0.0004	1.0
16	1	16	17	0	17	1621.5440	1621.5439	0.0001	1.0
16	1	16	15	0	15	1631.2032	1631.2033	-0.0001	1.0
18	1	18	19	0	19	1620.8309	1620.8307	0.0002	1.0
18	1	18	17	0	17	1631.6290	1631.6290	0.0001	1.0
19	1	19	20	0	20	1620.4776	1620.4777	-0.0001	1.0
19	1	19	18	0	18	1631.8434	1631.8432	0.0002	1.0
20	1	20	19	0	19	1632.0592	1632.0592	0.0000	1.0
22	1	22	21	0	21	1632.4986	1632.4975	0.0011	1.0
23	1	23	22	0	22	1632.7203	1632.7203	0.0000	1.0
30	1	30	29	0	29	1634.3507	1634.3510	-0.0003	1.0
1	1	0	1	0	1	1627.3375	1627.3368	0.0007	1.0
2	1	1	2	0	2	1627.3494	1627.3494	0.0000	1.0
3	1	2	3	0	3	1627.3693	1627.3685	0.0008	1.0
4	1	3	4	0	4	1627.3946	1627.3943	0.0003	1.0
5	1	4	5	0	5	1627.4269	1627.4271	-0.0002	1.0
6	1	5	6	2	4	1621.7295	1621.7298	-0.0003	1.0
6	1	5	6	0	6	1627.4672	1627.4673	-0.0001	1.0
7	1	6	7	2	5	1621.7667	1621.7672	-0.0005	1.0
7	1	6	7	0	7	1627.5152	1627.5153	-0.0001	1.0
8	1	7	8	2	6	1621.8077	1621.8079	-0.0002	1.0
8	1	7	8	0	8	1627.5717	1627.5717	0.0000	1.0
9	1	8	9	2	7	1621.8508	1621.8508	0.0000	1.0
9	1	8	9	0	9	1627.6368	1627.6369	-0.0001	1.0
10	1	9	10	0	10	1627.7116	1627.7116	0.0000	1.0
11	1	10	11	2	9	1621.9395	1621.9396	-0.0001	1.0
11	1	10	11	0	11	1627.7965	1627.7965	0.0001	1.0
12	1	11	12	2	10	1621.9832	1621.9833	-0.0001	1.0
12	1	11	12	0	12	1627.8920	1627.8920	0.0000	1.0
13	1	12	13	2	11	1622.0248	1622.0250	-0.0002	1.0

13	1	12	13	0	13	1627.9988	1627.9990	-0.0002	1.0
14	1	13	14	0	14	1628.1179	1628.1179	0.0000	1.0
15	1	14	15	2	13	1622.0968	1622.0973	-0.0005	1.0
15	1	14	15	0	15	1628.2487	1628.2493	-0.0006	1.0
16	1	15	16	2	14	1622.1258	1622.1259	-0.0001	1.0
16	1	15	16	0	16	1628.3941	1628.3942	-0.0001	1.0
17	1	16	17	2	15	1622.1470	1622.1470	0.0000	1.0
17	1	16	17	0	17	1628.5514	1628.5517	-0.0003	1.0
18	1	17	18	0	18	1628.7221	1628.7216	0.0005	1.0
19	1	18	19	2	17	1622.1663	1622.1661	0.0002	1.0
19	1	18	19	0	19	1628.9104	1628.9097	0.0007	1.0
21	1	20	21	2	19	1622.1432	1622.1438	-0.0006	1.0
21	1	20	21	0	21	1629.3207	1629.3212	-0.0005	1.0
22	1	21	22	2	20	1622.1134	1622.1138	-0.0004	1.0
22	1	21	22	0	22	1629.5448	1629.5453	-0.0005	1.0
23	1	22	24	2	23	1616.0795	1616.0781	0.0015	1.0
23	1	22	23	0	23	1629.7835	1629.7823	0.0012	1.0
24	1	23	25	2	24	1615.9009	1615.9006	0.0003	1.0
24	1	23	24	2	22	1622.0161	1622.0158	0.0003	1.0
26	1	25	26	2	24	1621.8605	1621.8605	0.0000	1.0
29	1	28	29	2	27	1621.5092	1621.5094	-0.0002	1.0
33	1	32	33	2	31	1620.8023	1620.8022	0.0001	1.0
6	2	5	6	3	4	1618.7276	1618.7272	0.0004	1.0
7	2	6	7	3	5	1618.7208	1618.7207	0.0001	1.0
10	2	9	10	3	8	1618.6918	1618.6912	0.0006	1.0
11	2	10	11	3	9	1618.6774	1618.6773	0.0001	1.0
12	2	11	12	3	10	1618.6602	1618.6609	-0.0007	1.0
12	2	11	12	1	12	1630.6870	1630.6871	-0.0001	1.0
13	2	12	13	3	11	1618.6418	1618.6417	0.0001	1.0
15	2	14	15	3	13	1618.5939	1618.5937	0.0002	1.0
16	2	15	17	1	16	1624.0426	1624.0425	0.0002	1.0
17	2	16	17	3	15	1618.5310	1618.5309	0.0001	1.0
18	2	17	18	3	16	1618.4932	1618.4931	0.0001	1.0
18	2	17	18	1	18	1631.2910	1631.2908	0.0003	1.0
19	2	18	20	1	19	1622.7712	1622.7712	0.0000	1.0
5	2	3	5	1	4	1630.0811	1630.0808	0.0003	1.0
7	2	5	7	1	6	1629.9915	1629.9915	0.0000	1.0
8	2	6	8	1	7	1629.9394	1629.9396	-0.0002	1.0
9	2	7	9	1	8	1629.8841	1629.8840	0.0001	1.0
10	2	8	10	1	9	1629.8255	1629.8257	-0.0002	1.0
11	2	9	11	1	10	1629.7656	1629.7657	-0.0001	1.0
12	2	10	12	1	11	1629.7050	1629.7051	-0.0001	1.0
13	2	11	13	3	10	1618.7733	1618.7734	-0.0001	1.0
13	2	11	13	1	12	1629.6451	1629.6451	0.0000	1.0
14	2	12	14	3	11	1618.7929	1618.7931	-0.0002	1.0
14	2	12	14	1	13	1629.5861	1629.5870	-0.0009	1.0

15	2	13	15	3	12	1618.8178	1618.8179	-0.0001	1.0
15	2	13	15	1	14	1629.5319	1629.5319	0.0000	1.0
16	2	14	16	1	15	1629.4811	1629.4811	0.0000	1.0
17	2	15	17	3	14	1618.8840	1618.8844	-0.0004	1.0
18	2	16	18	3	15	1618.9261	1618.9266	-0.0005	1.0
19	2	17	19	3	16	1618.9746	1618.9747	-0.0001	1.0
19	2	17	19	1	18	1629.3661	1629.3662	-0.0001	1.0
20	2	18	20	3	17	1619.0317	1619.0285	0.0032	0.1
21	2	19	21	1	20	1629.3312	1629.3318	-0.0006	1.0
22	2	20	22	3	19	1619.1523	1619.1519	0.0004	1.0
22	2	20	22	1	21	1629.3312	1629.3301	0.0011	1.0
23	2	21	23	3	20	1619.2201	1619.2201	0.0000	1.0
24	2	22	24	3	21	1619.2919	1619.2916	0.0003	1.0
24	2	22	24	1	23	1629.3623	1629.3619	0.0004	1.0
25	2	23	25	3	22	1619.3651	1619.3652	-0.0001	1.0
26	2	24	26	1	25	1629.4447	1629.4455	-0.0008	1.0
27	2	25	27	1	26	1629.5089	1629.5082	0.0007	0.1
28	2	26	28	3	25	1619.5871	1619.5878	-0.0007	1.0
29	2	27	29	1	28	1629.6783	1629.6787	-0.0004	1.0
30	2	28	30	1	29	1629.7875	1629.7869	0.0006	1.0
31	2	29	31	1	30	1629.9109	1629.9110	-0.0001	1.0
5	3	3	5	4	2	1615.8702	1615.8700	0.0003	1.0
6	3	4	6	4	3	1615.8665	1615.8660	0.0005	1.0
9	3	7	9	4	6	1615.8513	1615.8508	0.0005	1.0
17	3	15	17	4	14	1615.7882	1615.7880	0.0002	1.0
17	3	15	17	2	16	1633.0497	1633.0495	0.0002	1.0
18	3	16	18	4	15	1615.7784	1615.7778	0.0006	1.0
18	3	16	18	2	17	1633.0622	1633.0621	0.0001	1.0
19	3	17	19	2	18	1633.0780	1633.0779	0.0001	1.0
20	3	18	20	4	17	1615.7554	1615.7553	0.0001	1.0
21	3	19	21	4	18	1615.7431	1615.7428	0.0003	1.0
21	3	19	21	2	20	1633.1206	1633.1207	-0.0001	1.0
21	3	19	20	2	18	1638.6599	1638.6598	0.0001	1.0
22	3	20	22	2	21	1633.1490	1633.1483	0.0007	1.0
24	3	22	24	4	21	1615.6975	1615.6984	-0.0009	1.0
24	3	22	24	2	23	1633.2166	1633.2173	-0.0007	1.0
25	3	23	25	2	24	1633.2595	1633.2593	0.0002	1.0
26	3	24	25	2	23	1639.5276	1639.5285	-0.0009	1.0
28	3	26	27	2	25	1639.8080	1639.8084	-0.0004	1.0
30	3	28	29	2	27	1640.0530	1640.0535	-0.0005	1.0
5	3	2	5	4	1	1615.8702	1615.8700	0.0002	1.0
6	3	3	6	4	2	1615.8665	1615.8661	0.0004	1.0
8	3	5	8	2	6	1633.0114	1633.0104	0.0010	1.0
9	3	6	9	4	5	1615.8513	1615.8512	0.0001	1.0
9	3	6	9	2	7	1632.9962	1632.9958	0.0004	1.0
10	3	7	10	2	8	1632.9778	1632.9774	0.0004	1.0

12	3	9	12	2	10	1632.9266	1632.9271	-0.0005	1.0
13	3	10	13	2	11	1632.8944	1632.8940	0.0004	1.0
14	3	11	14	2	12	1632.8552	1632.8548	0.0004	1.0
17	3	14	17	2	15	1632.6966	1632.6964	0.0002	1.0
22	3	19	21	2	20	1639.7298	1639.7299	-0.0001	1.0
23	3	20	23	2	21	1632.1890	1632.1890	0.0000	1.0
23	3	20	22	2	21	1640.0779	1640.0777	0.0002	1.0
24	3	21	24	2	22	1632.0840	1632.0840	0.0000	1.0
26	3	23	26	2	24	1631.8641	1631.8644	-0.0003	1.0
27	3	24	27	2	25	1631.7524	1631.7522	0.0002	1.0
4	4	0	5	5	0	1611.5289	1611.5298	-0.0009	1.0
5	4	0	6	5	0	1611.2291	1611.2299	-0.0008	1.0
6	4	0	7	5	0	1610.9291	1610.9295	-0.0004	1.0
7	4	0	8	5	0	1610.6293	1610.6291	0.0002	1.0
8	4	0	9	5	0	1610.3296	1610.3290	0.0006	1.0
9	3	0	10	5	0	1610.0100	1610.0101	-0.0001	1.0*
9	4	0	10	5	0	1610.0295	1610.0298	-0.0003	1.0
10	4	0	11	5	0	1609.7080	1609.7088	-0.0008	0.1
6	4	0	5	3	0	1637.6809	1637.6809	0.0001	1.0
7	4	0	6	3	0	1637.9745	1637.9743	0.0002	1.0
8	4	0	7	3	0	1638.2688	1638.2679	0.0009	1.0
9	3	0	8	3	0	1638.5430	1638.5427	0.0004	1.0*
9	4	0	8	3	0	1638.5626	1638.5623	0.0003	1.0
10	4	0	9	3	0	1638.8340	1638.8347	-0.0007	1.0
11	4	0	12	5	0	1609.4051	1609.4059	-0.0008	1.0
12	4	0	13	5	0	1609.1011	1609.1018	-0.0007	1.0
13	4	0	14	5	0	1608.7961	1608.7970	-0.0009	1.0
14	4	0	15	5	0	1608.4909	1608.4914	-0.0005	1.0
15	4	0	16	5	0	1608.1846	1608.1852	-0.0006	1.0
16	4	0	17	5	0	1607.8782	1607.8786	-0.0004	1.0
17	4	0	18	5	0	1607.5713	1607.5715	-0.0002	1.0
18	4	0	19	5	0	1607.2638	1607.2640	-0.0002	1.0
21	4	18	20	3	17	1641.9276	1641.9273	0.0003	1.0
22	4	19	21	3	18	1642.1951	1642.1945	0.0006	1.0
21	4	17	20	3	18	1641.9759	1641.9755	0.0004	1.0
22	4	18	21	3	19	1642.2593	1642.2584	0.0009	1.0
23	4	20	24	5	19	1605.7271	1605.7259	0.0012	0.1
23	4	19	24	5	20	1605.7304	1605.7300	0.0004	0.1
23	4	20	22	3	19	1642.4612	1642.4604	0.0008	1.0
23	4	19	22	3	20	1642.5440	1642.5434	0.0006	1.0
24	4	21	25	5	20	1605.3916	1605.3933	-0.0017	1.0
24	4	20	25	5	21	1605.3959	1605.3957	0.0002	1.0
24	4	21	23	3	20	1642.6937	1642.6947	-0.0010	1.0
24	4	20	23	3	21	1642.7996	1642.7991	0.0005	1.0
25	4	22	26	5	21	1605.0937	1605.0927	0.0010	1.0
25	4	21	26	5	22	1605.1019	1605.1007	0.0012	0.1

25	4	22	24	3	21	1642.9571	1642.9562	0.0009	1.0
25	4	21	24	3	22	1643.0956	1643.0943	0.0013	1.0
26	4	23	27	5	22	1604.7864	1604.7847	0.0017	1.0
26	4	22	27	5	23	1604.7975	1604.7961	0.0014	0.1
26	4	23	25	3	22	1643.2064	1643.2049	0.0015	0.1
26	4	22	25	3	23	1643.3824	1643.3805	0.0019	1.0
5	5	0	6	6	0	1608.3674	1608.3671	0.0003	1.0
5	5	0	4	4	0	1640.2430	1640.2429	0.0001	1.0
6	5	0	6	4	0	1638.7541	1638.7537	0.0004	1.0
6	5	0	5	4	0	1640.5366	1640.5358	0.0009	1.0
6	5	0	5	4	0	1640.5367	1640.5358	0.0010	1.0
6	5	0	7	6	0	1608.0662	1608.0659	0.0003	1.0
7	5	0	7	4	0	1638.7491	1638.7488	0.0004	1.0
7	5	0	6	4	0	1640.8293	1640.8279	0.0014	0.1
7	5	0	8	6	0	1607.7644	1607.7641	0.0003	1.0
8	5	0	8	4	0	1638.7433	1638.7430	0.0003	1.0
8	5	0	8	6	0	1610.1348	1610.1346	0.0002	1.0
8	5	0	9	6	0	1607.4618	1607.4616	0.0003	1.0
10	5	0	10	4	0	1638.7295	1638.7293	0.0002	1.0
10	5	0	9	4	0	1641.7002	1641.7000	0.0002	1.0
10	5	0	10	6	0	1610.1218	1610.1218	0.0000	1.0
11	5	0	11	4	0	1638.7213	1638.7212	0.0001	1.0
11	5	0	10	4	0	1641.9893	1641.9892	0.0001	1.0
11	5	0	11	6	0	1610.1144	1610.1144	0.0000	1.0
12	5	0	12	4	0	1638.7122	1638.7122	0.0000	1.0
12	5	0	11	4	0	1642.2776	1642.2776	0.0000	1.0
12	5	0	12	6	0	1610.1062	1610.1064	-0.0002	1.0
13	5	0	13	4	0	1638.7024	1638.7024	0.0000	1.0
13	5	0	13	6	0	1610.0983	1610.0979	0.0004	1.0
13	5	0	12	4	0	1642.5653	1642.5652	0.0001	1.0
13	5	0	14	6	0	1605.9392	1605.9392	0.0000	1.0
14	5	0	14	4	0	1638.6916	1638.6917	-0.0001	1.0
14	5	0	14	6	0	1610.0887	1610.0888	-0.0001	1.0
14	5	0	13	4	0	1642.8520	1642.8520	0.0000	1.0
14	5	0	15	6	0	1605.6329	1605.6329	0.0001	1.0
15	5	0	15	4	0	1638.6799	1638.6801	-0.0002	1.0
15	5	0	15	6	0	1610.0791	1610.0792	-0.0001	1.0
15	5	0	14	4	0	1643.1379	1643.1380	-0.0001	1.0
15	5	0	16	6	0	1605.3260	1605.3260	0.0000	1.0
16	5	0	16	4	0	1638.6673	1638.6676	-0.0003	1.0
16	5	0	16	6	0	1610.0687	1610.0691	-0.0004	1.0
16	5	0	15	4	0	1643.4229	1643.4232	-0.0003	1.0
16	5	0	17	6	0	1605.0186	1605.0187	-0.0001	1.0
17	5	0	17	4	0	1638.6538	1638.6542	-0.0004	1.0
17	5	0	18	6	0	1604.7107	1604.7110	-0.0003	1.0
18	5	0	18	4	0	1638.6395	1638.6401	-0.0006	1.0

18	5	0	19	6	0	1604.4026	1604.4031	-0.0005	1.0
19	5	0	20	6	0	1604.0942	1604.0944	-0.0002	0.1
19	5	0	19	4	0	1638.6247	1638.6245	0.0002	1.0
19	5	0	18	4	0	1644.2741	1644.2738	0.0003	0.0
20	5	0	21	6	0	1603.7893	1603.7898	-0.0005	1.0
20	5	0	19	4	0	1644.5593	1644.5598	-0.0005	1.0
21	6	0	22	6	0	1603.5027	1603.5026	0.0001	1.0**
21	5	0	22	6	0	1603.4577	1603.4576	0.0001	1.0
21	5	0	21	4	0	1638.5721	1638.5720	0.0001	1.0
21	5	0	20	4	0	1644.8177	1644.8175	0.0002	1.0
22	5	0	23	6	0	1603.1553	1603.1552	0.0001	1.0
22	5	18	22	4	19	1638.5626	1638.5617	0.0009	0.1
22	5	17	22	4	18	1638.5594	1638.5591	0.0003	1.0
22	5	0	21	4	0	1645.1044	1645.1044	0.0001	1.0
23	5	0	24	6	0	1602.8462	1602.8463	-0.0001	1.0
23	5	19	23	4	20	1638.5430	1638.5433	-0.0003	1.0
23	5	18	23	4	19	1638.5395	1638.5396	-0.0001	1.0
23	5	0	22	4	0	1645.3841	1645.3839	0.0002	0.1
24	5	0	25	6	0	1602.5354	1602.5358	-0.0004	1.0
24	5	20	24	4	21	1638.5224	1638.5225	-0.0001	1.0
24	5	19	24	4	20	1638.5171	1638.5172	-0.0001	1.0
24	5	20	23	4	19	1645.6584	1645.6589	-0.0005	1.0
24	5	19	23	4	20	1645.6626	1645.6629	-0.0003	1.0
25	5	0	26	6	0	1602.2243	1602.2246	-0.0003	1.0
25	5	21	25	4	22	1638.4995	1638.4999	-0.0004	1.0
25	5	20	25	4	21	1638.4926	1638.4928	-0.0002	1.0
25	5	21	24	4	20	1645.9332	1645.9335	-0.0003	1.0
25	5	20	24	4	21	1645.9387	1645.9390	-0.0003	1.0
26	5	0	27	6	0	1601.9124	1601.9128	-0.0004	1.0
26	5	22	26	4	23	1638.4755	1638.4760	-0.0005	1.0
26	5	21	26	4	22	1638.4656	1638.4663	-0.0007	1.0
26	5	22	25	4	21	1646.2056	1646.2061	-0.0005	1.0
26	5	21	25	4	22	1646.2133	1646.2137	-0.0004	1.0
27	5	0	28	6	0	1601.6001	1601.6007	-0.0006	1.0
28	5	0	29	6	0	1601.2877	1601.2882	-0.0005	1.0
6	6	0	5	5	0	1643.3924	1643.3922	0.0002	1.0
6	6	0	7	7	0	1605.2066	1605.2068	-0.0002	1.0
7	6	2	6	5	1	1643.6910	1643.6910	0.0000	1.0
7	6	0	8	7	0	1604.9115	1604.9116	-0.0001	1.0
7	6	0	6	5	0	1643.6563	1643.6565	-0.0002	1.0***
7	6	0	8	7	0	1604.8775	1604.8771	0.0004	1.0***
8	6	0	7	5	0	1643.9650	1643.9658	-0.0008	1.0
8	6	0	9	7	0	1604.5921	1604.5924	-0.0003	1.0
9	6	0	9	5	0	1641.5872	1641.5868	0.0004	1.0
10	6	0	9	5	0	1644.5510	1644.5512	-0.0002	1.0
10	6	0	10	5	0	1641.5810	1641.5809	0.0001	1.0

11	6	0	11	5	0	1641.5737	1641.5737	0.0001	1.0
11	6	0	10	5	0	1644.8410	1644.8411	-0.0001	1.0
11	6	0	12	7	0	1603.6858	1603.6858	0.0000	1.0
12	6	0	12	5	0	1641.5655	1641.5654	0.0001	1.0
12	6	0	11	5	0	1645.1299	1645.1301	-0.0002	1.0
12	6	0	13	7	0	1603.3808	1603.3809	-0.0001	1.0
13	6	0	13	5	0	1641.5564	1641.5563	0.0001	1.0
13	6	0	12	5	0	1645.4183	1645.4183	0.0000	1.0
13	6	0	14	7	0	1603.0754	1603.0753	0.0001	1.0
14	6	0	14	5	0	1641.5462	1641.5464	-0.0002	1.0
14	6	0	13	5	0	1645.7055	1645.7056	-0.0001	1.0
14	6	0	15	7	0	1602.7689	1602.7690	-0.0001	1.0
15	6	0	15	5	0	1641.5355	1641.5355	0.0000	1.0
15	6	0	14	5	0	1645.9921	1645.9921	0.0000	1.0
15	6	0	16	7	0	1602.4617	1602.4620	-0.0003	1.0
16	6	0	16	5	0	1641.5237	1641.5238	-0.0001	1.0
16	6	0	15	5	0	1646.2777	1646.2778	-0.0001	1.0
16	6	0	17	7	0	1602.1542	1602.1543	-0.0001	1.0
17	6	0	17	5	0	1641.5113	1641.5112	0.0001	1.0
17	6	0	16	5	0	1646.5625	1646.5626	-0.0001	1.0
17	6	0	18	7	0	1601.8458	1601.8460	-0.0002	1.0
18	6	0	17	5	0	1646.8466	1646.8466	0.0000	1.0
18	6	0	18	5	0	1641.4977	1641.4977	0.0000	1.0
19	6	0	19	5	0	1641.4833	1641.4833	0.0000	1.0
20	6	0	20	5	0	1641.4680	1641.4679	0.0001	1.0
20	6	0	19	5	0	1647.4121	1647.4120	0.0001	1.0
20	6	0	21	7	0	1600.9174	1600.9175	-0.0001	1.0
21	6	0	21	5	0	1641.4517	1641.4516	0.0001	1.0
21	6	0	20	5	0	1647.6934	1647.6933	0.0001	1.0
21	6	0	22	7	0	1600.6066	1600.6068	-0.0002	1.0
22	6	0	22	5	0	1641.4342	1641.4342	0.0000	1.0
22	6	0	21	5	0	1647.9738	1647.9737	0.0001	1.0
22	6	0	23	7	0	1600.2955	1600.2956	-0.0001	1.0
23	6	0	22	5	0	1648.2533	1648.2532	0.0001	1.0
23	6	0	23	5	0	1641.4161	1641.4158	0.0003	1.0
24	6	0	23	5	0	1648.5316	1648.5316	0.0000	1.0
25	6	0	24	5	0	1648.8093	1648.8091	0.0002	1.0
25	6	0	25	5	0	1641.3759	1641.3758	0.0001	1.0
26	6	0	25	5	0	1649.0854	1649.0855	-0.0001	1.0
26	6	0	26	5	0	1641.3543	1641.3542	0.0001	1.0
27	6	0	27	5	0	1641.3313	1641.3313	0.0000	1.0
28	6	0	28	5	0	1641.3074	1641.3073	0.0001	1.0
29	6	0	29	5	0	1641.2823	1641.2820	0.0003	1.0
30	6	0	30	5	0	1641.2556	1641.2555	0.0001	1.0
7	7	0	6	6	0	1646.5703	1646.5705	-0.0002	1.0
7	7	0	8	8	0	1602.0787	1602.0789	-0.0002	1.0

8	7	0	7	6	0	1646.8643	1646.8640	0.0003	1.0
8	7	0	9	8	0	1601.7783	1601.7784	-0.0001	1.0
10	7	0	9	6	0	1647.4508	1647.4508	0.0000	1.0
11	7	0	10	6	0	1647.7445	1647.7445	0.0000	1.0
11	7	0	12	8	0	1600.8768	1600.8767	0.0001	1.0
12	7	0	11	6	0	1648.0390	1648.0389	0.0002	1.0
12	7	0	13	8	0	1600.5772	1600.5770	0.0002	1.0
12	7	0	11	6	0	1647.8649	1647.8651	-0.0002	1.0****
12	7	0	13	8	0	1600.4033	1600.4032	0.0001	1.0****
13	7	0	12	6	0	1648.3344	1648.3343	0.0001	1.0
13	7	0	14	8	0	1600.2784	1600.2785	-0.0001	1.0
13	7	0	12	6	0	1648.1705	1648.1706	-0.0001	1.0****
13	7	0	14	8	0	1600.1145	1600.1148	-0.0003	1.0****
14	7	0	13	6	0	1648.6313	1648.6314	-0.0001	1.0
14	7	0	15	8	0	1599.9823	1599.9817	0.0006	1.0
14	7	0	13	6	0	1648.4748	1648.4748	0.0000	1.0****
14	7	0	15	8	0	1599.8251	1599.8251	0.0000	1.0****
15	7	0	14	6	0	1648.7772	1648.7770	0.0002	1.0****
15	7	0	16	8	0	1599.5337	1599.5335	0.0002	1.0***
15	7	0	14	6	0	1648.9310	1648.9309	0.0001	1.0
15	7	0	16	8	0	1599.6875	1599.6875	0.0001	1.0
16	7	0	15	6	0	1649.0766	1649.0766	0.0000	1.0
16	7	0	17	8	0	1599.2393	1599.2394	-0.0001	1.0
16	7	0	15	6	0	1649.2333	1649.2335	-0.0002	1.0****
16	7	0	17	8	0	1599.3961	1599.3963	-0.0002	1.0****
17	7	0	16	6	0	1649.3732	1649.3732	0.0000	1.0
17	7	0	18	8	0	1598.9423	1598.9424	-0.0001	1.0
18	7	0	17	6	0	1649.6668	1649.6668	0.0000	1.0
18	7	0	19	8	0	1598.6428	1598.6425	0.0003	1.0
19	7	0	18	6	0	1649.9583	1649.9576	0.0007	1.0
19	7	0	20	8	0	1598.3401	1598.3400	0.0001	1.0
20	7	0	19	6	0	1650.2455	1650.2460	-0.0005	1.0
20	7	0	21	8	0	1598.0346	1598.0352	-0.0006	1.0
21	7	0	20	6	0	1650.5324	1650.5323	0.0001	1.0
21	7	0	22	8	0	1597.7286	1597.7287	-0.0001	1.0
22	7	0	21	6	0	1650.8170	1650.8169	0.0001	1.0
22	7	0	23	8	0	1597.4207	1597.4205	0.0002	1.0
23	7	0	22	6	0	1651.0997	1651.1000	-0.0003	1.0
23	7	0	24	8	0	1597.1110	1597.1111	-0.0001	1.0
24	7	0	23	6	0	1651.3818	1651.3817	0.0001	1.0
24	7	0	25	8	0	1596.8005	1596.8006	-0.0001	1.0
25	7	0	25	6	0	1644.2320	1644.2322	-0.0002	1.0
25	7	0	24	6	0	1651.6621	1651.6621	0.0000	1.0
25	7	0	26	8	0	1596.4890	1596.4891	-0.0001	1.0
26	7	0	26	6	0	1644.2137	1644.2137	0.0000	1.0
26	7	0	25	6	0	1651.9413	1651.9413	0.0000	1.0

26	7	0	27	8	0	1596.1765	1596.1767	-0.0002	1.0
27	7	0	26	6	0	1652.2194	1652.2194	0.0000	1.0
27	7	0	27	6	0	1644.1941	1644.1941	0.0000	1.0
28	7	0	28	6	0	1644.1732	1644.1733	-0.0001	1.0
29	7	0	29	6	0	1644.1513	1644.1514	-0.0001	1.0
30	7	0	30	6	0	1644.1281	1644.1283	-0.0002	1.0
30	7	0	29	6	0	1653.0470	1653.0471	-0.0001	1.0
30	7	0	31	8	0	1594.9201	1594.9201	0.0000	1.0
31	7	0	31	6	0	1644.1040	1644.1040	0.0000	1.0
31	7	0	30	6	0	1653.3207	1653.3208	-0.0001	1.0
31	7	0	32	8	0	1594.6044	1594.6044	0.0000	1.0
32	7	0	32	6	0	1644.0789	1644.0786	0.0003	1.0
32	7	0	31	6	0	1653.5935	1653.5934	0.0001	1.0
32	7	0	33	8	0	1594.2882	1594.2881	0.0001	1.0
33	7	0	32	6	0	1653.8653	1653.8649	0.0004	1.0
33	7	0	33	6	0	1644.0523	1644.0521	0.0002	1.0
34	7	0	34	6	0	1644.0261	1644.0243	0.0018	1.0
37	7	0	37	6	0	1643.9332	1643.9338	-0.0006	1.0
38	7	0	38	6	0	1643.9006	1643.9011	-0.0005	1.0
39	7	0	39	6	0	1643.8667	1643.8671	-0.0004	1.0
40	7	0	40	6	0	1643.8314	1643.8318	-0.0004	1.0
41	7	0	41	6	0	1643.7951	1643.7951	0.0000	1.0
42	7	0	42	6	0	1643.7574	1643.7570	0.0004	1.0
8	8	0	9	9	0	1598.9004	1598.9008	-0.0004	1.0
11	8	0	12	9	0	1597.9920	1597.9921	-0.0001	1.0
12	8	0	13	9	0	1597.6883	1597.6882	0.0001	1.0
13	8	0	14	9	0	1597.3838	1597.3838	0.0000	1.0
14	8	0	15	9	0	1597.0791	1597.0789	0.0002	1.0
15	8	0	16	9	0	1596.7741	1596.7736	0.0005	1.0
16	8	0	17	9	0	1596.4683	1596.4679	0.0005	1.0
17	8	0	18	9	0	1596.1623	1596.1617	0.0006	1.0
18	8	0	19	9	0	1595.8556	1595.8553	0.0003	1.0
19	8	0	20	9	0	1595.5495	1595.5485	0.0010	0.1
20	8	0	21	9	0	1595.2416	1595.2414	0.0002	1.0
21	8	0	22	9	0	1594.9344	1594.9342	0.0002	0.1
22	8	0	23	9	0	1594.6266	1594.6267	-0.0001	1.0
23	8	0	24	9	0	1594.3190	1594.3192	-0.0002	1.0
24	8	0	25	9	0	1594.0115	1594.0116	-0.0001	1.0
25	8	0	26	9	0	1593.7040	1593.7043	-0.0003	1.0
26	8	0	27	9	0	1593.3972	1593.3972	0.0000	1.0#
27	8	0	28	9	0	1593.0907	1593.0908	-0.0001	1.0#
28	8	0	29	9	0	1592.7859	1592.7856	0.0003	1.0#
29	8	0	30	9	0	1592.4829	1592.4823	0.0006	1.0#
30	8	0	31	9	0	1592.1824	1592.1822	0.0002	1.0#
31	8	0	32	9	0	1591.8881	1591.8871	0.0010	0.1#
32	8	0	33	9	0	1591.5991	1591.5996	-0.0005	0.1#

33	8	0	34	9	0	1591.0891	1591.0889	0.0002	1.0#
33	8	0	34	9	0	1591.3220	1591.3217	0.0003	1.0#
24	8	0	24	9	0	1601.4379	1601.4380	-0.0001	1.0
25	8	0	25	9	0	1601.4274	1601.4278	-0.0004	1.0
26	8	0	26	9	0	1601.4178	1601.4179	-0.0001	1.0#
27	8	0	27	9	0	1601.4085	1601.4087	-0.0002	1.0#
28	8	0	28	9	0	1601.4003	1601.4006	-0.0003	1.0#
29	8	0	29	9	0	1601.3942	1601.3945	-0.0003	0.1#
30	8	0	30	9	0	1601.3930	1601.3916	0.0014	0.1#
31	8	0	31	9	0	1601.3942	1601.3938	0.0004	0.1#
32	8	0	32	9	0	1601.2097	1601.2112	-0.0015	0.1#
32	8	0	32	9	0	1601.4034	1601.4035	-0.0001	0.1#
33	8	0	33	9	0	1601.1897	1601.1901	-0.0004	1.0#
33	8	0	33	9	0	1601.4229	1601.4228	0.0001	0.1#
19	8	0	19	7	0	1647.2320	1647.2318	0.0002	1.0
20	8	0	20	7	0	1647.2213	1647.2211	0.0002	1.0
21	8	0	21	7	0	1647.2101	1647.2100	0.0001	1.0
22	8	0	22	7	0	1647.1986	1647.1986	0.0000	1.0
23	8	0	23	7	0	1647.1867	1647.1869	-0.0002	1.0
24	8	0	24	7	0	1647.1749	1647.1750	-0.0001	1.0
25	8	0	25	7	0	1647.1629	1647.1630	-0.0001	1.0
26	8	0	26	7	0	1647.1508	1647.1512	-0.0004	1.0#
27	8	0	27	7	0	1647.1396	1647.1397	-0.0001	1.0#
28	8	0	28	7	0	1647.1295	1647.1291	0.0004	0.1#
29	8	0	29	7	0	1647.1199	1647.1201	-0.0002	1.0#
30	8	0	30	7	0	1647.1139	1647.1139	0.0000	1.0#
32	8	0	32	7	0	1646.9266	1646.9258	0.0008	1.0#
32	8	0	32	7	0	1647.1188	1647.1182	0.0006	0.1#
33	8	0	33	7	0	1646.9002	1646.9003	-0.0001	1.0#
8	8	0	7	7	0	1649.6939	1649.6946	-0.0007	1.0
9	8	0	8	7	0	1649.9861	1649.9863	-0.0002	1.0
10	8	0	9	7	0	1650.2774	1650.2776	-0.0002	1.0
11	8	0	10	7	0	1650.5684	1650.5683	0.0001	1.0
12	8	0	11	7	0	1650.8585	1650.8584	0.0001	1.0
13	8	0	12	7	0	1651.1483	1651.1481	0.0002	1.0
14	8	0	13	7	0	1651.4375	1651.4373	0.0003	1.0
19	8	0	18	7	0	1652.8764	1652.8761	0.0003	1.0
20	8	0	19	7	0	1653.1628	1653.1626	0.0002	1.0
21	8	0	20	7	0	1653.4489	1653.4488	0.0001	1.0
22	8	0	21	7	0	1653.7347	1653.7347	0.0000	1.0
23	8	0	22	7	0	1654.0200	1654.0203	-0.0003	1.0
24	8	0	23	7	0	1654.3056	1654.3057	-0.0001	1.0
25	8	0	24	7	0	1654.5909	1654.5911	-0.0002	1.0
26	8	0	25	7	0	1654.8766	1654.8767	-0.0001	1.0#
27	8	0	26	7	0	1655.1626	1655.1626	0.0000	1.0#
28	8	0	27	7	0	1655.4496	1655.4495	0.0001	1.0#

29	8	0	28	7	0	1655.7382	1655.7380	0.0002	0.1#
30	8	0	29	7	0	1656.0298	1656.0294	0.0004	1.0#
31	8	0	30	7	0	1656.3263	1656.3256	0.0008	1.0#
32	8	0	31	7	0	1656.4357	1656.4365	-0.0008	1.0#
32	8	0	31	7	0	1656.6290	1656.6289	0.0001	1.0#
33	8	0	32	7	0	1656.7087	1656.7087	0.0000	1.0#
33	8	0	32	7	0	1656.9414	1656.9414	0.0000	1.0#
9	9	0	8	8	0	1652.8338	1652.8343	-0.0005	1.0
10	9	0	9	8	0	1653.1239	1653.1242	-0.0003	1.0
11	9	0	12	10	0	1595.1333	1595.1336	-0.0003	1.0
12	9	0	11	8	0	1653.7017	1653.7020	-0.0003	1.0
12	9	0	13	10	0	1594.8278	1594.8279	-0.0001	1.0
13	9	0	12	8	0	1653.9897	1653.9898	-0.0001	1.0
13	9	0	14	10	0	1594.5215	1594.5216	-0.0001	1.0
14	9	0	13	8	0	1654.2767	1654.2769	-0.0002	1.0
14	9	0	15	10	0	1594.2144	1594.2146	-0.0002	1.0
15	9	0	14	8	0	1654.5632	1654.5633	-0.0001	1.0
15	9	0	16	10	0	1593.9070	1593.9068	0.0002	1.0
16	9	0	15	8	0	1654.8487	1654.8489	-0.0002	1.0
16	9	0	17	10	0	1593.5983	1593.5984	-0.0001	1.0
17	9	0	16	8	0	1655.1337	1655.1339	-0.0002	1.0
17	9	0	18	10	0	1593.2894	1593.2893	0.0001	1.0
18	9	0	17	8	0	1655.4178	1655.4181	-0.0003	1.0
18	9	0	19	10	0	1592.9796	1592.9796	0.0000	1.0
19	9	0	18	8	0	1655.7016	1655.7016	0.0000	1.0
19	9	0	20	10	0	1592.6691	1592.6692	-0.0001	1.0
20	9	0	19	8	0	1655.9844	1655.9843	0.0001	1.0
20	9	0	21	10	0	1592.3580	1592.3581	-0.0001	1.0
21	9	0	20	8	0	1656.2664	1656.2664	0.0000	1.0
21	9	0	22	10	0	1592.0465	1592.0464	0.0002	1.0
22	9	0	23	10	0	1591.7338	1591.7340	-0.0002	1.0
23	9	0	22	8	0	1656.8281	1656.8282	-0.0001	1.0
23	9	0	24	10	0	1591.4210	1591.4210	0.0001	1.0
24	9	0	23	8	0	1657.1079	1657.1080	-0.0001	1.0
24	9	0	25	10	0	1591.1074	1591.1073	0.0001	1.0
25	9	0	24	8	0	1657.3871	1657.3871	0.0001	1.0
25	9	0	26	10	0	1590.7931	1590.7931	0.0001	1.0
26	9	0	25	8	0	1657.6653	1657.6653	0.0000	1.0
27	9	0	26	8	0	1657.9429	1657.9429	0.0000	1.0
28	9	0	27	8	0	1658.2197	1658.2196	0.0001	1.0
29	9	0	28	8	0	1658.4951	1658.4956	-0.0005	1.0
30	9	0	29	8	0	1658.7706	1658.7709	-0.0003	1.0
31	9	0	30	8	0	1659.0452	1659.0453	-0.0001	1.0
32	9	0	31	8	0	1659.3188	1659.3190	-0.0002	1.0
10	10	0	9	9	0	1655.9728	1655.9726	0.0002	1.0
10	10	0	11	11	0	1592.5885	1592.5885	0.0000	1.0

11	10	0	10	9	0	1656.2620	1656.2620	0.0000	1.0
11	10	0	12	11	0	1592.2836	1592.2836	0.0000	1.0
12	10	0	13	11	0	1591.9780	1591.9781	-0.0001	1.0
13	10	0	12	9	0	1656.8388	1656.8386	0.0002	1.0
13	10	0	14	11	0	1591.6717	1591.6718	-0.0001	1.0
14	10	0	13	9	0	1657.1259	1657.1259	0.0000	1.0
14	10	0	15	11	0	1591.3654	1591.3649	0.0006	1.0
15	10	0	14	9	0	1657.4127	1657.4125	0.0002	1.0
15	10	0	16	11	0	1591.0574	1591.0572	0.0002	1.0
16	10	0	15	9	0	1657.6987	1657.6983	0.0004	1.0
16	10	0	17	11	0	1590.7491	1590.7489	0.0002	1.0
17	10	0	16	9	0	1657.9839	1657.9835	0.0004	1.0
18	10	0	17	9	0	1658.2681	1658.2679	0.0002	1.0
19	10	0	18	9	0	1658.5520	1658.5516	0.0004	1.0
20	10	0	19	9	0	1658.8347	1658.8346	0.0001	1.0
21	10	0	20	9	0	1659.1173	1659.1169	0.0004	1.0
11	11	0	10	10	0	1659.1084	1659.1082	0.0002	1.0
11	11	0	12	12	0	1589.4372	1589.4370	0.0002	1.0
12	11	0	12	10	0	1655.8326	1655.8323	0.0003	1.0
12	11	0	13	12	0	1589.1312	1589.1311	0.0001	1.0
13	11	0	14	12	0	1588.8247	1588.8246	0.0001	1.0
14	11	0	14	10	0	1655.8128	1655.8129	-0.0001	1.0
14	11	0	13	10	0	1659.9712	1659.9713	-0.0001	1.0
14	11	0	15	12	0	1588.5168	1588.5173	-0.0005	1.0
15	11	0	15	10	0	1655.8019	1655.8022	-0.0003	1.0
15	11	0	14	10	0	1660.2574	1660.2576	-0.0002	1.0
15	11	0	16	12	0	1588.2092	1588.2093	-0.0001	1.0
16	11	0	15	10	0	1660.5432	1660.5433	-0.0001	1.0
16	11	0	16	10	0	1655.7905	1655.7908	-0.0003	1.0
17	11	0	16	10	0	1660.8281	1660.8282	-0.0001	1.0
17	11	0	17	10	0	1655.7786	1655.7787	-0.0001	1.0
18	11	0	17	10	0	1661.1125	1661.1125	0.0001	1.0
18	11	0	18	10	0	1655.7659	1655.7659	0.0000	1.0
19	11	0	19	10	0	1655.7521	1655.7524	-0.0003	1.0
21	11	0	21	10	0	1655.7234	1655.7234	0.0000	1.0
22	11	0	22	10	0	1655.7076	1655.7078	-0.0002	1.0
23	11	0	23	10	0	1655.6916	1655.6915	0.0001	1.0
24	11	0	24	10	0	1655.6750	1655.6745	0.0005	1.0
25	11	0	25	10	0	1655.6567	1655.6569	-0.0002	1.0
26	11	0	26	10	0	1655.6386	1655.6385	0.0001	1.0
27	11	0	27	10	0	1655.6194	1655.6194	0.0000	1.0
28	11	0	28	10	0	1655.5998	1655.5996	0.0002	1.0
29	11	0	29	10	0	1655.5791	1655.5791	0.0000	1.0
30	11	0	30	10	0	1655.5578	1655.5578	0.0000	1.0
31	11	0	31	10	0	1655.5359	1655.5359	0.0001	1.0
32	11	0	32	10	0	1655.5134	1655.5131	0.0003	1.0

12	12	0	11	11	0	1662.2413	1662.2403	0.0010	1.0
13	12	0	12	11	0	1662.5291	1662.5291	0.0000	1.0
14	12	0	13	11	0	1662.8171	1662.8173	-0.0002	1.0
15	12	0	14	11	0	1663.1046	1663.1048	-0.0002	1.0
16	12	0	15	11	0	1663.3915	1663.3917	-0.0002	1.0
17	12	0	16	11	0	1663.6776	1663.6780	-0.0004	1.0
18	12	0	17	11	0	1663.9633	1663.9636	-0.0003	1.0
13	13	0	14	14	0	1583.0845	1583.1423	-0.0578	0.0
13	13	0	12	12	0	1665.3109	1665.3683	-0.0574	0.0
14	13	0	15	14	0	1582.7839	1582.8361	-0.0522	0.0
14	13	0	13	12	0	1665.6032	1665.6566	-0.0534	0.0
15	13	0	16	14	0	1582.4815	1582.5293	-0.0478	0.0
15	13	0	14	12	0	1665.8968	1665.9442	-0.0474	0.0
16	13	0	17	14	0	1582.1790	1582.2219	-0.0429	0.0
16	13	0	16	12	0	1661.4354	1661.4785	-0.0431	0.0
16	13	0	15	12	0	1666.1896	1666.2311	-0.0415	0.0
17	13	0	18	14	0	1581.8755	1581.9138	-0.0383	0.0
17	13	0	17	12	0	1661.4299	1661.4678	-0.0379	0.0
17	13	0	16	12	0	1666.4798	1666.5175	-0.0377	0.0
18	13	0	18	12	0	1661.4226	1661.4564	-0.0338	0.0
19	13	0	19	12	0	1661.4147	1661.4445	-0.0298	0.0

Table A-17. Observed and calculated (Fit B) transitions of acrolein in the $8^1 18^1 \leftarrow 18^1$ hot band (values in cm^{-1}).

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
7	0	7	7	1	6	1357.9283	1357.9283	0.0000	1.0
8	0	8	8	1	7	1357.8688	1357.8683	0.0005	1.0
10	0	10	9	1	9	1361.3699	1361.3702	-0.0003	1.0
11	0	11	11	1	10	1357.6293	1357.6295	-0.0002	1.0
11	0	11	10	0	10	1362.7619	1362.7616	0.0003	1.0
12	0	12	11	0	11	1363.0533	1363.0535	-0.0002	1.0
12	0	12	12	1	11	1357.5284	1357.5282	0.0002	1.0
13	0	13	13	1	12	1357.4148	1357.4150	-0.0002	1.0
14	0	14	13	0	13	1363.6339	1363.6339	0.0000	1.0
15	0	15	15	1	14	1357.1508	1357.1504	0.0004	1.0
16	0	16	17	0	17	1354.5226	1354.5228	-0.0001	1.0
17	0	17	18	0	18	1354.2372	1354.2370	0.0002	0.1
17	0	17	16	0	16	1364.4960	1364.4965	-0.0005	1.0
18	0	18	19	0	19	1353.9522	1353.9518	0.0004	1.0
18	0	18	17	0	17	1364.7823	1364.7820	0.0003	1.0
19	0	19	20	0	20	1353.6672	1353.6672	0.0000	1.0
19	0	19	18	0	18	1365.0669	1365.0666	0.0003	1.0
20	0	20	21	0	21	1353.3825	1353.3829	-0.0004	1.0

20	0	20	19	0	19	1365.3516	1365.3504	0.0012	0.1
21	0	21	22	0	22	1353.0990	1353.0989	0.0001	1.0
21	0	21	20	0	20	1365.6339	1365.6336	0.0003	1.0
22	0	22	23	0	23	1352.8148	1352.8151	-0.0003	0.1
22	0	22	21	0	21	1365.9157	1365.9162	-0.0005	1.0
23	0	23	24	0	24	1352.5304	1352.5314	-0.0010	0.1
23	0	23	22	0	22	1366.1987	1366.1984	0.0003	0.1
24	0	24	25	0	25	1352.2478	1352.2478	0.0001	0.1
24	0	24	23	0	23	1366.4801	1366.4802	-0.0001	1.0
25	0	25	26	0	26	1351.9637	1351.9641	-0.0004	1.0
26	0	26	27	0	27	1351.6789	1351.6803	-0.0014	0.1
26	0	26	25	0	25	1367.0435	1367.0430	0.0005	1.0
26	0	26	26	1	25	1354.7285	1354.7290	-0.0005	1.0
26	0	26	27	1	27	1351.4853	1351.4851	0.0002	1.0
5	1	5	6	0	6	1359.0031	1359.0028	0.0003	1.0
7	1	7	6	1	6	1361.5419	1361.5417	0.0002	1.0
11	1	11	10	1	10	1362.7017	1362.7015	0.0003	1.0
12	1	12	11	1	11	1362.9906	1362.9908	-0.0002	1.0
14	1	14	13	1	13	1363.5687	1363.5686	0.0001	1.0
14	1	14	13	0	13	1364.4329	1364.4325	0.0005	1.0
15	1	15	14	0	14	1364.6591	1364.6592	-0.0001	0.1
17	1	17	16	1	16	1364.4329	1364.4330	-0.0001	1.0
18	1	18	19	1	19	1354.0014	1354.0014	0.0000	1.0
19	1	19	20	1	20	1353.7136	1353.7136	0.0000	1.0
21	1	21	22	1	22	1353.1386	1353.1387	-0.0001	1.0
22	1	22	23	1	23	1352.8518	1352.8515	0.0003	1.0
24	1	24	25	1	25	1352.2775	1352.2776	-0.0001	0.1
18	1	18	17	1	17	1364.7210	1364.7205	0.0005	0.1
19	1	19	18	1	18	1365.0079	1365.0076	0.0003	1.0
20	1	20	19	1	19	1365.2948	1365.2945	0.0004	1.0
21	1	21	20	1	20	1365.5820	1365.5809	0.0011	1.0
25	1	25	24	1	24	1366.7235	1366.7235	0.0000	1.0
2	1	1	3	1	2	1358.5927	1358.5933	-0.0006	1.0
5	1	4	6	1	5	1357.6826	1357.6826	0.0000	1.0
7	1	6	7	0	7	1361.0888	1361.0890	-0.0002	1.0
8	1	7	8	0	8	1361.1508	1361.1509	-0.0002	1.0
10	1	9	10	0	10	1361.3039	1361.3040	-0.0001	1.0
11	1	10	10	1	9	1362.8613	1362.8613	0.0000	1.0
11	1	10	11	0	11	1361.3965	1361.3963	0.0002	1.0
12	1	11	12	0	12	1361.5007	1361.5000	0.0007	1.0
14	1	13	14	0	14	1361.7445	1361.7439	0.0006	1.0
15	1	14	15	0	15	1361.8848	1361.8852	-0.0003	1.0
16	1	15	16	0	16	1362.0392	1362.0400	-0.0008	1.0
19	1	18	19	2	17	1356.0693	1356.0692	0.0001	1.0
20	1	19	20	2	18	1356.0779	1356.0784	-0.0005	1.0
21	1	20	21	2	19	1356.0779	1356.0772	0.0007	1.0

22	1	21	22	2	20	1356.0655	1356.0649	0.0007	1.0
23	1	22	23	2	21	1356.0408	1356.0404	0.0004	1.0
24	1	23	24	2	22	1356.0039	1356.0032	0.0007	1.0
13	2	12	12	2	11	1363.3849	1363.3854	-0.0005	1.0
14	2	13	13	2	12	1363.6828	1363.6827	0.0001	1.0
15	2	14	14	2	13	1363.9796	1363.9798	-0.0002	1.0
16	2	15	15	2	14	1364.2769	1364.2767	0.0002	1.0
17	2	16	16	2	15	1364.5732	1364.5733	-0.0001	1.0
18	2	17	17	2	16	1364.8698	1364.8697	0.0001	1.0
19	2	18	18	2	17	1365.1658	1365.1658	0.0000	1.0
20	2	19	19	2	18	1365.4617	1365.4617	0.0001	1.0
21	2	20	20	2	19	1365.7573	1365.7572	0.0002	1.0
21	2	20	22	3	19	1345.7697	1345.7697	0.0001	1.0
23	2	22	24	3	21	1345.0330	1345.0340	-0.0010	1.0
7	2	5	6	2	4	1361.6048	1361.6048	0.0000	1.0
8	2	6	7	2	5	1361.9056	1361.9057	-0.0002	1.0
11	2	9	10	2	8	1362.8133	1362.8136	-0.0003	1.0
14	2	12	13	2	11	1363.7301	1363.7299	0.0002	1.0
16	2	14	15	2	13	1364.3475	1364.3475	0.0000	1.0
17	2	15	16	2	14	1364.6557	1364.6557	0.0000	1.0
20	2	18	20	1	19	1363.0041	1363.0040	0.0002	1.0
21	2	19	21	1	20	1363.0117	1363.0114	0.0002	1.0
22	2	20	22	1	21	1363.0306	1363.0303	0.0003	1.0
11	3	8	10	3	7	1362.8082	1362.8089	-0.0007	0.1
12	3	9	11	3	8	1363.1080	1363.1088	-0.0008	1.0
13	3	10	12	3	9	1363.4081	1363.4091	-0.0010	0.1
15	3	12	14	3	11	1364.0114	1364.0107	0.0007	1.0
16	3	13	15	3	12	1364.3127	1364.3122	0.0005	1.0
17	3	14	16	3	13	1364.6147	1364.6142	0.0005	1.0
20	3	17	19	3	16	1365.5238	1365.5237	0.0001	1.0
21	3	18	20	3	17	1365.8288	1365.8282	0.0006	1.0
15	3	13	14	3	12	1364.0078	1364.0076	0.0002	1.0
16	3	14	15	3	13	1364.3083	1364.3079	0.0004	1.0
17	3	15	16	3	14	1364.6089	1364.6083	0.0006	1.0
18	3	16	17	3	15	1364.9090	1364.9089	0.0001	1.0
19	3	17	18	3	16	1365.2099	1365.2096	0.0003	1.0
20	3	18	19	3	17	1365.5096	1365.5104	-0.0008	0.1
21	3	19	20	3	18	1365.8119	1365.8113	0.0007	1.0
6	4	0	5	4	0	1361.3284	1361.3286	-0.0002	1.0
9	4	0	8	4	0	1362.2245	1362.2247	-0.0002	1.0
11	4	0	12	5	0	1343.5676	1343.5684	-0.0008	0.1
12	4	0	13	5	0	1343.2730	1343.2722	0.0008	0.1
13	4	0	14	5	0	1342.9762	1342.9763	-0.0001	1.0
14	4	0	15	5	0	1342.6806	1342.6806	-0.0001	1.0
15	4	0	16	5	0	1342.3851	1342.3853	-0.0002	1.0
16	4	0	17	4	0	1354.4867	1354.4866	0.0001	1.0

16	4	0	17	5	0	1342.0901	1342.0904	-0.0003	1.0
18	4	0	19	5	0	1341.5003	1341.5017	-0.0014	1.0
20	4	0	21	5	0	1340.9147	1340.9150	-0.0003	1.0
21	4	0	22	5	0	1340.6221	1340.6225	-0.0004	1.0
22	4	0	23	5	0	1340.3300	1340.3306	-0.0006	1.0
23	4	19	24	5	20	1340.0413	1340.0415	-0.0002	1.0
23	4	20	24	5	19	1340.0369	1340.0374	-0.0005	0.1
24	4	20	25	5	21	1339.7515	1339.7519	-0.0004	1.0
24	4	21	25	5	20	1339.7456	1339.7461	-0.0005	0.1
25	4	21	26	5	22	1339.4623	1339.4635	-0.0012	0.1
25	4	22	26	5	21	1339.4545	1339.4555	-0.0010	0.1
7	5	0	8	6	0	1342.0178	1342.0176	0.0001	1.0
9	5	0	8	5	0	1362.2441	1362.2443	-0.0002	1.0
9	5	0	10	6	0	1341.4236	1341.4238	-0.0002	1.0
11	5	0	10	5	0	1362.8420	1362.8422	-0.0003	1.0
11	5	0	12	6	0	1340.8304	1340.8305	-0.0001	1.0
12	5	0	11	4	0	1375.5449	1375.5451	-0.0002	1.0
12	5	0	13	6	0	1340.5337	1340.5341	-0.0003	1.0
13	5	0	12	4	0	1375.8432	1375.8438	-0.0007	1.0
14	5	0	15	6	0	1339.9414	1339.9418	-0.0003	1.0
14	5	0	13	4	0	1376.1422	1376.1424	-0.0003	1.0
15	5	0	14	4	0	1376.4406	1376.4410	-0.0004	1.0
16	5	0	15	4	0	1376.7402	1376.7395	0.0008	1.0
16	5	0	17	6	0	1339.3501	1339.3503	-0.0002	1.0
17	5	0	16	4	0	1377.0376	1377.0378	-0.0002	1.0
18	5	0	19	6	0	1338.7598	1338.7598	-0.0001	1.0
19	5	0	18	4	0	1377.6338	1377.6339	0.0000	1.0
20	5	0	19	4	0	1377.9312	1377.9316	-0.0004	1.0
21	5	0	22	6	0	1337.8760	1337.8764	-0.0004	1.0
22	5	0	23	6	0	1337.5823	1337.5826	-0.0003	1.0
24	5	19	23	4	20	1379.1211	1379.1209	0.0002	1.0
24	5	20	23	4	19	1379.1168	1379.1169	-0.0001	1.0
25	5	21	24	4	20	1379.4109	1379.4118	-0.0009	1.0
25	5	20	24	4	21	1379.4175	1379.4174	0.0001	1.0
26	5	0	27	6	0	1336.4115	1336.4118	-0.0003	0.1
27	5	0	28	6	0	1336.1200	1336.1204	-0.0004	1.0
28	5	0	29	6	0	1335.8293	1335.8295	-0.0002	1.0
29	5	0	30	6	0	1335.5391	1335.5393	-0.0002	1.0
30	5	0	31	6	0	1335.2495	1335.2497	-0.0002	1.0
31	5	0	32	6	0	1334.9610	1334.9607	0.0003	1.0
32	5	0	33	6	0	1334.6720	1334.6726	-0.0006	0.1
33	5	29	34	6	28	1334.3828	1334.3837	-0.0009	1.0
33	5	28	34	6	29	1334.3874	1334.3867	0.0007	1.0
34	5	30	33	4	29	1382.0075	1382.0074	0.0001	0.1
34	5	29	33	4	30	1382.0758	1382.0757	0.0001	1.0
35	5	31	34	4	30	1382.2857	1382.2850	0.0008	0.1

35	5	30	34	4	31	1382.3715	1382.3711	0.0004	0.1
6	6	0	5	5	0	1376.5342	1376.5344	-0.0002	1.0
7	6	0	6	5	0	1376.8327	1376.8329	-0.0002	1.0
9	6	0	10	7	0	1338.6901	1338.6903	-0.0002	1.0
9	6	0	8	5	0	1377.4298	1377.4302	-0.0004	1.0
10	6	0	9	5	0	1377.7290	1377.7290	0.0000	1.0
11	6	0	10	5	0	1378.0274	1378.0278	-0.0004	1.0
11	6	0	12	7	0	1338.0967	1338.0968	-0.0002	1.0
12	6	0	13	7	0	1337.8002	1337.8003	-0.0001	1.0
12	6	0	11	5	0	1378.3265	1378.3268	-0.0002	1.0
13	6	0	12	5	0	1378.6255	1378.6257	-0.0002	1.0
14	6	0	13	5	0	1378.9246	1378.9247	-0.0001	1.0
15	6	0	14	5	0	1379.2235	1379.2237	-0.0002	1.0
15	6	0	16	6	0	1354.8291	1354.8298	-0.0007	1.0
17	6	0	16	5	0	1379.8216	1379.8218	-0.0002	1.0
18	6	0	17	5	0	1380.1204	1380.1208	-0.0004	1.0
19	6	0	18	5	0	1380.4196	1380.4197	-0.0001	1.0
20	6	0	19	5	0	1380.7182	1380.7186	-0.0004	1.0
22	6	0	21	5	0	1381.3157	1381.3160	-0.0003	1.0
23	6	0	22	5	0	1381.6139	1381.6145	-0.0006	1.0
24	6	0	23	5	0	1381.9125	1381.9128	-0.0004	1.0
29	6	0	28	5	0	1383.4010	1383.4011	0.0000	1.0
29	6	0	30	7	0	1332.7920	1332.7918	0.0002	0.1
30	6	0	31	7	0	1332.4998	1332.5000	-0.0002	1.0
31	6	0	32	7	0	1332.2086	1332.2086	0.0000	1.0
32	6	0	33	7	0	1331.9178	1331.9177	0.0001	1.0
33	6	0	34	7	0	1331.6275	1331.6274	0.0002	1.0
34	6	0	35	7	0	1331.3379	1331.3375	0.0004	1.0
35	6	0	36	7	0	1331.0484	1331.0482	0.0003	1.0
7	7	0	6	6	0	1379.6180	1379.6178	0.0003	1.0
8	7	0	7	6	0	1379.9164	1379.9164	-0.0001	1.0
9	7	0	8	6	0	1380.2153	1380.2152	0.0000	1.0
10	7	0	9	6	0	1380.5138	1380.5141	-0.0003	1.0
11	7	0	10	6	0	1380.8132	1380.8131	0.0001	1.0
11	7	0	12	7	0	1356.0443	1356.0440	0.0003	1.0
13	7	0	12	6	0	1381.4111	1381.4112	-0.0001	1.0
13	7	0	12	7	0	1363.4918	1363.4920	-0.0002	1.0
14	7	0	13	6	0	1381.7105	1381.7104	0.0001	1.0
15	7	0	14	6	0	1382.0097	1382.0097	0.0000	1.0
16	7	0	15	6	0	1382.3091	1382.3090	0.0001	1.0
17	7	0	16	6	0	1382.6083	1382.6084	0.0000	1.0
18	7	0	17	6	0	1382.9079	1382.9078	0.0001	1.0
19	7	0	18	6	0	1383.2071	1383.2072	-0.0001	1.0
20	7	0	19	6	0	1383.5066	1383.5066	0.0000	1.0
21	7	0	20	6	0	1383.8061	1383.8060	0.0000	1.0
22	7	0	21	6	0	1384.1054	1384.1054	0.0000	1.0

23	7	0	22	6	0	1384.4048	1384.4048	0.0000	1.0
24	7	0	23	6	0	1384.7041	1384.7041	0.0000	1.0
25	7	0	24	6	0	1385.0032	1385.0034	-0.0001	1.0
26	7	0	25	6	0	1385.3024	1385.3025	-0.0002	1.0
27	7	0	26	6	0	1385.6017	1385.6016	0.0001	1.0
28	7	0	27	6	0	1385.9008	1385.9006	0.0002	1.0
29	7	0	28	6	0	1386.1991	1386.1994	-0.0003	1.0
30	7	0	29	6	0	1386.4978	1386.4981	-0.0003	1.0
32	7	0	31	6	0	1387.0948	1387.0949	-0.0001	1.0
34	7	0	33	6	0	1387.6906	1387.6908	-0.0002	1.0
8	8	0	7	7	0	1382.7057	1382.7052	0.0005	1.0
9	8	0	8	7	0	1383.0038	1383.0041	-0.0003	1.0
10	8	0	9	7	0	1383.3037	1383.3031	0.0007	1.0
11	8	0	10	7	0	1383.6026	1383.6021	0.0005	1.0
12	8	0	11	7	0	1383.9019	1383.9013	0.0005	1.0
13	8	0	12	7	0	1384.2011	1384.2006	0.0005	1.0
14	8	0	13	7	0	1384.5007	1384.5000	0.0006	1.0
15	8	0	14	7	0	1384.8001	1384.7995	0.0006	1.0
16	8	0	15	7	0	1385.0996	1385.0991	0.0005	1.0
16	8	0	15	8	0	1364.4230	1364.4225	0.0005	1.0
17	8	0	16	7	0	1385.3992	1385.3987	0.0005	1.0
18	8	0	17	7	0	1385.6989	1385.6984	0.0004	1.0
21	8	0	20	7	0	1386.5983	1386.5979	0.0004	1.0
23	8	0	22	7	0	1387.1982	1387.1977	0.0005	1.0
24	8	0	23	7	0	1387.4980	1387.4977	0.0003	1.0
25	8	0	24	7	0	1387.7974	1387.7976	-0.0002	1.0
26	8	0	25	7	0	1388.0979	1388.0976	0.0004	1.0
27	8	0	26	7	0	1388.3980	1388.3975	0.0005	1.0
28	8	0	27	7	0	1388.6980	1388.6974	0.0006	0.1
29	8	0	28	7	0	1388.9973	1388.9972	0.0001	1.0
30	8	0	29	7	0	1389.2972	1389.2971	0.0002	1.0
31	8	0	30	7	0	1389.5968	1389.5968	0.0000	1.0
32	8	0	31	7	0	1389.8959	1389.8964	-0.0005	0.1
33	8	0	32	7	0	1390.1961	1390.1960	0.0001	1.0
34	8	0	33	7	0	1390.4953	1390.4955	-0.0002	1.0
35	8	0	34	7	0	1390.7945	1390.7948	-0.0003	1.0
9	9	0	8	8	0	1385.7973	1385.7966	0.0007	1.0
10	9	0	9	8	0	1386.0955	1386.0946	0.0009	1.0
11	9	0	10	8	0	1386.3934	1386.3926	0.0008	1.0
12	9	0	11	8	0	1386.6915	1386.6906	0.0009	1.0
13	9	0	12	8	0	1386.9892	1386.9885	0.0007	1.0
14	9	0	13	8	0	1387.2869	1387.2864	0.0006	1.0
15	9	0	14	8	0	1387.5845	1387.5841	0.0004	1.0
16	9	0	15	8	0	1387.8823	1387.8817	0.0006	1.0
17	9	0	16	8	0	1388.1794	1388.1792	0.0002	1.0
18	9	0	17	8	0	1388.4764	1388.4764	0.0000	1.0

19	9	0	18	8	0	1388.7731	1388.7734	-0.0003	0.0
20	9	0	19	8	0	1389.0699	1389.0701	-0.0002	1.0
19	9	0	20	10	0	1327.5327	1327.5327	0.0001	0.1
20	9	0	21	10	0	1327.2334	1327.2339	-0.0005	1.0
22	9	0	23	10	0	1326.6335	1326.6355	-0.0020	0.1
10	10	0	9	9	0	1388.8911	1388.8918	-0.0008	1.0
11	10	0	10	9	0	1389.1899	1389.1909	-0.0009	1.0
12	10	0	11	9	0	1389.4889	1389.4900	-0.0010	1.0
14	10	0	13	9	0	1390.0879	1390.0885	-0.0007	1.0
15	10	0	14	9	0	1390.3869	1390.3879	-0.0010	1.0
16	10	0	15	9	0	1390.6870	1390.6874	-0.0004	1.0
18	10	0	17	9	0	1391.2861	1391.2867	-0.0006	1.0
20	10	0	19	9	0	1391.8859	1391.8863	-0.0004	1.0
21	10	0	20	9	0	1392.1861	1392.1862	-0.0001	1.0
22	10	0	21	9	0	1392.4860	1392.4862	-0.0002	1.0
24	10	0	23	9	0	1393.0865	1393.0863	0.0002	0.1
25	10	0	24	9	0	1393.3864	1393.3864	0.0000	1.0
26	10	0	27	11	0	1322.7630	1322.7630	0.0000	0.1
27	10	0	28	11	0	1322.4683	1322.4682	0.0001	1.0
28	10	0	29	11	0	1322.1737	1322.1736	0.0002	1.0
29	10	0	30	11	0	1321.8795	1321.8791	0.0004	1.0
26	10	0	25	9	0	1393.6865	1393.6866	-0.0001	1.0
27	10	0	26	9	0	1393.9872	1393.9868	0.0004	1.0
28	10	0	27	9	0	1394.2871	1394.2870	0.0001	1.0
29	10	0	28	9	0	1394.5872	1394.5873	-0.0001	1.0

Table A-18. Observed and calculated (Fit B) transitions of acrolein in the $7^1 18^1 \leftarrow 18^1$ hot band (values in cm^{-1}).

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
2	0	2	3	0	3	1419.5859	1419.5861	-0.0002	1.0
3	0	3	4	0	4	1419.2882	1419.2884	-0.0002	1.0
3	0	3	2	0	2	1421.3711	1421.3711	0.0000	1.0
4	0	4	3	0	3	1421.6673	1421.6675	-0.0002	1.0
4	0	4	5	0	5	1418.9908	1418.9909	-0.0001	1.0
5	0	5	4	0	4	1421.9634	1421.9632	0.0001	1.0
5	0	5	6	0	6	1418.6941	1418.6937	0.0004	1.0
6	0	6	5	0	5	1422.2582	1422.2583	-0.0001	1.0
7	0	7	8	0	8	1418.1008	1418.1006	0.0002	1.0
7	0	7	6	0	6	1422.5526	1422.5526	0.0000	1.0
8	0	8	7	0	7	1422.8458	1422.8459	-0.0001	1.0
9	0	9	10	0	10	1417.5086	1417.5097	-0.0011	1.0
10	0	10	11	0	11	1417.2154	1417.2152	0.0002	1.0
11	0	11	12	0	12	1416.9215	1416.9214	0.0001	1.0

13	0	13	14	0	14	1416.3359	1416.3360	-0.0001	1.0
14	0	14	15	0	15	1416.0440	1416.0444	-0.0004	0.1
15	0	15	16	0	16	1415.7537	1415.7535	0.0003	0.1
17	0	17	18	0	18	1415.1731	1415.1732	-0.0001	1.0
18	0	18	19	0	19	1414.8836	1414.8838	-0.0002	1.0
20	0	20	21	0	21	1414.3057	1414.3064	-0.0007	1.0
21	0	21	22	0	22	1414.0168	1414.0165	0.0003	1.0
9	0	9	8	0	8	1423.1379	1423.1382	-0.0003	1.0
10	0	10	9	0	9	1423.4292	1423.4294	-0.0002	1.0
11	0	11	10	0	10	1423.7196	1423.7194	0.0002	1.0
12	0	12	11	0	11	1424.0080	1424.0082	-0.0002	0.1
13	0	13	12	0	12	1424.2953	1424.2957	-0.0004	1.0
14	0	14	13	0	13	1424.5818	1424.5819	-0.0001	1.0
15	0	15	14	0	14	1424.8667	1424.8667	0.0000	1.0
16	0	16	15	0	15	1425.1502	1425.1503	-0.0001	0.1
17	0	17	16	0	16	1425.4326	1425.4327	-0.0001	1.0
18	0	18	17	0	17	1425.7139	1425.7139	0.0000	1.0
19	0	19	18	0	18	1425.9945	1425.9941	0.0004	1.0
21	0	21	20	0	20	1426.5517	1426.5513	0.0004	1.0
2	1	2	3	1	3	1419.6086	1419.6088	-0.0002	1.0
3	1	3	4	1	4	1419.3171	1419.3173	-0.0002	1.0
3	1	3	2	1	2	1421.3536	1421.3537	-0.0001	1.0
4	1	4	5	1	5	1419.0255	1419.0256	-0.0001	1.0
4	1	4	3	1	3	1421.6431	1421.6435	-0.0004	1.0
5	1	5	6	1	6	1418.7338	1418.7337	0.0000	1.0
6	1	6	7	1	7	1418.4418	1418.4418	0.0000	1.0
7	1	7	8	1	8	1418.1498	1418.1498	0.0000	1.0
8	1	8	9	1	9	1417.8578	1417.8577	0.0001	1.0
9	1	9	10	1	10	1417.5662	1417.5656	0.0006	1.0
10	1	10	11	1	11	1417.2734	1417.2734	0.0000	1.0
11	1	11	12	1	12	1416.9814	1416.9812	0.0002	1.0
12	1	12	13	1	13	1416.6894	1416.6890	0.0004	0.1
14	1	14	15	1	15	1416.1046	1416.1045	0.0001	1.0
15	1	15	16	1	16	1415.8121	1415.8123	-0.0002	1.0
16	1	16	17	1	17	1415.5202	1415.5200	0.0002	1.0
17	1	17	18	1	18	1415.2286	1415.2278	0.0008	0.1
18	1	18	19	1	19	1414.9348	1414.9355	-0.0007	0.1
19	1	19	20	1	20	1414.6438	1414.6432	0.0006	1.0
20	1	20	21	1	21	1414.3501	1414.3510	-0.0009	0.1
21	1	21	22	1	22	1414.0589	1414.0587	0.0003	1.0
9	1	9	8	1	8	1423.0869	1423.0869	0.0000	1.0
11	1	11	10	1	10	1423.6612	1423.6611	0.0001	1.0
12	1	12	11	1	11	1423.9476	1423.9475	0.0001	1.0
14	1	14	13	1	13	1424.5188	1424.5187	0.0001	0.1
15	1	15	14	1	14	1424.8034	1424.8035	-0.0001	1.0
16	1	16	15	1	15	1425.0882	1425.0878	0.0004	1.0

17	1	17	16	1	16	1425.3718	1425.3715	0.0003	1.0
18	1	18	17	1	17	1425.6546	1425.6547	-0.0001	0.1
19	1	19	18	1	18	1425.9378	1425.9373	0.0005	1.0
20	1	20	19	1	19	1426.2181	1426.2193	-0.0012	1.0
21	1	21	20	1	20	1426.5008	1426.5009	-0.0001	0.1
22	1	22	21	1	21	1426.7817	1426.7819	-0.0002	1.0
2	1	1	3	1	2	1419.5678	1419.5685	-0.0007	1.0
3	1	2	4	1	3	1419.2634	1419.2637	-0.0003	1.0
3	1	2	2	1	1	1421.3950	1421.3951	-0.0001	1.0
4	1	3	5	1	4	1418.9589	1418.9589	0.0000	1.0
4	1	3	3	1	2	1421.6986	1421.6989	-0.0003	1.0
5	1	4	4	1	3	1422.0026	1422.0025	0.0001	1.0
5	1	4	6	1	5	1418.6541	1418.6542	0.0000	1.0
6	1	5	5	1	4	1422.3060	1422.3059	0.0002	1.0
7	1	6	8	1	7	1418.0446	1418.0447	-0.0001	1.0
8	1	7	7	1	6	1422.9116	1422.9116	0.0000	1.0
8	1	7	9	1	8	1417.7398	1417.7401	-0.0003	1.0
11	1	10	12	1	11	1416.8271	1416.8271	0.0000	1.0
12	1	11	13	1	12	1416.5233	1416.5231	0.0002	1.0
13	1	12	14	1	13	1416.2194	1416.2194	0.0000	1.0
14	1	13	15	1	14	1415.9159	1415.9160	-0.0001	1.0
15	1	14	16	1	15	1415.6132	1415.6129	0.0003	1.0
16	1	15	17	1	16	1415.3101	1415.3102	-0.0001	1.0
17	1	16	18	1	17	1415.0078	1415.0079	-0.0001	1.0
18	1	17	19	1	18	1414.7063	1414.7061	0.0003	1.0
19	1	18	20	1	19	1414.4044	1414.4047	-0.0003	0.1
20	1	19	21	1	20	1414.1036	1414.1038	-0.0002	1.0
9	1	8	8	1	7	1423.2141	1423.2140	0.0001	0.1
10	1	9	9	1	8	1423.5161	1423.5159	0.0002	1.0
11	1	10	10	1	9	1423.8177	1423.8174	0.0004	1.0
13	1	12	12	1	11	1424.4188	1424.4187	0.0001	1.0
14	1	13	13	1	12	1424.7185	1424.7185	0.0000	1.0
15	1	14	14	1	13	1425.0177	1425.0177	0.0000	1.0
17	1	16	16	1	15	1425.6136	1425.6137	-0.0001	1.0
18	1	17	17	1	16	1425.9100	1425.9105	-0.0005	1.0
19	1	18	18	1	17	1426.2061	1426.2063	-0.0002	1.0
2	2	0	3	2	0	1419.5972	1419.5972	0.0000	1.0
3	2	0	4	2	0	1419.2985	1419.2987	-0.0002	1.0
3	2	0	2	2	0	1421.3841	1421.3834	0.0007	1.0
4	2	3	3	2	2	1421.6812	1421.6801	0.0011	1.0
4	2	3	5	2	4	1419.0006	1419.0008	-0.0002	1.0
6	2	5	7	2	6	1418.4037	1418.4037	0.0000	1.0
7	2	6	8	2	7	1418.1056	1418.1050	0.0006	1.0
9	2	8	10	2	9	1417.5086	1417.5074	0.0013	1.0
10	2	9	11	2	10	1417.2086	1417.2085	0.0001	1.0
11	2	10	12	2	11	1416.9097	1416.9095	0.0002	1.0

12	2	11	13	2	12	1416.6104	1416.6105	-0.0001	0.1
13	2	12	14	2	13	1416.3114	1416.3115	-0.0001	1.0
14	2	13	15	2	14	1416.0125	1416.0124	0.0001	1.0
15	2	14	16	2	15	1415.7134	1415.7132	0.0002	1.0
16	2	15	17	2	16	1415.4135	1415.4139	-0.0004	1.0
17	2	16	18	2	17	1415.1142	1415.1144	-0.0002	1.0
18	2	17	19	2	18	1414.8145	1414.8146	-0.0001	1.0
19	2	18	20	2	19	1414.5140	1414.5143	-0.0003	0.1
20	2	19	21	2	20	1414.2123	1414.2129	-0.0006	1.0
9	2	8	8	2	7	1423.1599	1423.1598	0.0001	1.0
11	2	10	10	2	9	1423.7491	1423.7491	0.0000	1.0
12	2	11	11	2	10	1424.0439	1424.0431	0.0008	0.1
13	2	12	12	2	11	1424.3367	1424.3366	0.0001	1.0
14	2	13	13	2	12	1424.6296	1424.6296	0.0000	1.0
16	2	15	15	2	14	1425.2139	1425.2138	0.0001	1.0
17	2	16	16	2	15	1425.5048	1425.5048	0.0000	1.0
18	2	17	17	2	16	1425.7949	1425.7950	-0.0001	1.0
19	2	18	18	2	17	1426.0836	1426.0839	-0.0003	1.0
4	2	2	5	2	3	1418.9988	1418.9988	0.0000	1.0
4	2	2	3	2	1	1421.6812	1421.6811	0.0001	1.0
7	2	5	6	2	4	1422.5750	1422.5748	0.0003	1.0
7	2	5	8	2	6	1418.0967	1418.0969	-0.0002	1.0
8	2	6	7	2	5	1422.8738	1422.8733	0.0004	1.0
8	2	6	9	2	7	1417.7947	1417.7947	0.0000	1.0
9	2	7	10	2	8	1417.4918	1417.4917	0.0001	1.0
9	2	7	8	2	6	1423.1724	1423.1724	0.0000	1.0
10	2	8	11	2	9	1417.1879	1417.1879	0.0000	0.1
11	2	9	12	2	10	1416.8833	1416.8831	0.0002	1.0
12	2	10	13	2	11	1416.5778	1416.5775	0.0003	0.1
13	2	11	14	2	12	1416.2706	1416.2710	-0.0004	0.1
15	2	13	16	2	14	1415.6557	1415.6554	0.0003	1.0
17	2	15	18	2	16	1415.0373	1415.0372	0.0001	0.1
18	2	16	19	2	17	1414.7275	1414.7272	0.0003	1.0
19	2	17	20	2	18	1414.4171	1414.4170	0.0002	1.0
20	2	18	21	2	19	1414.1064	1414.1064	0.0000	1.0
21	2	19	22	2	20	1413.7959	1413.7958	0.0001	1.0
22	2	20	23	2	21	1413.4861	1413.4851	0.0010	1.0
23	2	21	24	2	22	1413.1743	1413.1745	-0.0002	0.1
24	2	22	25	2	23	1412.8640	1412.8641	-0.0001	0.1
10	2	8	9	2	7	1423.4720	1423.4720	0.0000	1.0
11	2	9	10	2	8	1423.7723	1423.7722	0.0001	1.0
12	2	10	11	2	9	1424.0731	1424.0730	0.0001	1.0
13	2	11	12	2	10	1424.3746	1424.3745	0.0001	0.1
14	2	12	13	2	11	1424.6768	1424.6767	0.0001	1.0
15	2	13	14	2	12	1424.9799	1424.9795	0.0004	0.1
16	2	14	15	2	13	1425.2833	1425.2830	0.0003	1.0

17	2	15	16	2	14	1425.5870	1425.5869	0.0001	1.0
18	2	16	17	2	15	1425.8912	1425.8913	-0.0001	1.0
19	2	17	18	2	16	1426.1961	1426.1959	0.0002	1.0
20	2	18	19	2	17	1426.5008	1426.5007	0.0001	0.1
21	2	19	20	2	18	1426.8056	1426.8056	0.0001	1.0
22	2	20	21	2	19	1427.1104	1427.1103	0.0002	1.0
23	2	21	22	2	20	1427.4148	1427.4147	0.0001	1.0
24	2	22	23	2	21	1427.7188	1427.7187	0.0001	0.1
25	2	23	24	2	22	1428.0220	1428.0222	-0.0002	1.0
3	3	0	4	3	0	1419.3150	1419.3142	0.0008	0.1
4	3	0	3	3	0	1421.6966	1421.6964	0.0002	1.0
4	3	0	5	3	0	1419.0164	1419.0162	0.0001	1.0
5	3	0	6	3	0	1418.7185	1418.7181	0.0004	1.0
5	3	0	4	3	0	1421.9941	1421.9941	-0.0001	1.0
6	3	0	5	3	0	1422.2921	1422.2918	0.0003	1.0
6	3	0	7	3	0	1418.4197	1418.4199	-0.0002	1.0
7	3	0	8	3	0	1418.1212	1418.1215	-0.0003	1.0
7	3	0	6	3	0	1422.5896	1422.5895	0.0001	1.0
8	3	0	9	3	0	1417.8229	1417.8230	-0.0001	1.0
8	3	0	7	3	0	1422.8871	1422.8873	-0.0002	1.0
9	3	0	8	3	0	1423.1850	1423.1851	-0.0002	1.0
10	3	0	11	3	0	1417.2242	1417.2256	-0.0014	1.0
10	3	0	9	3	0	1423.4826	1423.4830	-0.0004	1.0
11	3	0	12	3	0	1416.9254	1416.9266	-0.0012	1.0
11	3	0	10	3	0	1423.7808	1423.7810	-0.0002	1.0
15	3	13	16	3	14	1415.7266	1415.7267	-0.0001	1.0
16	3	14	17	3	15	1415.4260	1415.4262	-0.0002	1.0
17	3	15	18	3	16	1415.1252	1415.1253	-0.0001	1.0
18	3	16	19	3	17	1414.8242	1414.8241	0.0001	1.0
19	3	17	20	3	18	1414.5222	1414.5227	-0.0005	1.0
20	3	18	21	3	19	1414.2209	1414.2210	-0.0001	1.0
21	3	19	22	3	20	1413.9198	1413.9191	0.0007	1.0
22	3	20	23	3	21	1413.6182	1413.6171	0.0012	1.0
23	3	21	24	3	22	1413.3160	1413.3148	0.0012	1.0
24	3	22	25	3	23	1413.0149	1413.0124	0.0025	0.0
25	3	23	26	3	24	1412.7137	1412.7100	0.0038	0.0
16	3	14	15	3	13	1425.2656	1425.2652	0.0004	1.0
17	3	15	16	3	14	1425.5616	1425.5617	-0.0001	1.0
18	3	16	17	3	15	1425.8580	1425.8580	0.0000	1.0
19	3	17	18	3	16	1426.1538	1426.1540	-0.0002	1.0
20	3	18	19	3	17	1426.4496	1426.4498	-0.0002	1.0
21	3	19	20	3	18	1426.7457	1426.7453	0.0004	1.0
22	3	20	21	3	19	1427.0414	1427.0405	0.0009	1.0
23	3	21	22	3	20	1427.3367	1427.3353	0.0014	1.0
24	3	22	23	3	21	1427.6326	1427.6299	0.0027	0.0
25	3	23	24	3	22	1427.9278	1427.9241	0.0037	0.0

16	3	13	17	3	14	1415.4390	1415.4387	0.0003	0.1
17	3	14	18	3	15	1415.1453	1415.1452	0.0002	1.0
18	3	15	19	3	16	1414.8551	1414.8556	-0.0005	1.0
20	3	17	21	3	18	1414.0952	1414.0954	-0.0002	1.0
21	3	18	22	3	19	1413.8083	1413.8087	-0.0004	1.0
22	3	19	23	3	20	1413.5156	1413.5160	-0.0004	1.0
24	3	21	25	3	22	1412.9163	1412.9170	-0.0007	1.0
25	3	22	26	3	23	1412.6122	1412.6129	-0.0007	1.0
13	3	10	12	3	9	1424.3812	1424.3808	0.0004	1.0
14	3	11	13	3	10	1424.6811	1424.6813	-0.0002	0.1
15	3	12	14	3	11	1424.9826	1424.9831	-0.0005	1.0
16	3	13	15	3	12	1425.2864	1425.2869	-0.0005	1.0
18	3	15	17	3	14	1425.9051	1425.9056	-0.0005	1.0
19	3	16	18	3	15	1426.2246	1426.2246	0.0000	1.0
23	3	20	22	3	19	1427.2899	1427.2902	-0.0003	1.0
24	3	21	23	3	20	1427.5964	1427.5969	-0.0005	1.0
25	3	22	24	3	21	1427.9013	1427.9023	-0.0010	1.0
4	4	0	5	4	0	1419.0360	1419.0361	-0.0001	1.0
5	4	0	6	4	0	1418.7374	1418.7375	-0.0001	1.0
6	4	0	7	4	0	1418.4388	1418.4388	0.0000	1.0
6	4	0	5	4	0	1422.3101	1422.3102	-0.0002	1.0
7	4	0	8	4	0	1418.1399	1418.1399	0.0001	1.0
8	4	0	9	4	0	1417.8410	1417.8408	0.0002	1.0
8	4	0	7	4	0	1422.9037	1422.9039	-0.0002	1.0
9	4	0	8	4	0	1423.2007	1423.2006	0.0001	1.0
9	4	0	10	4	0	1417.5414	1417.5415	-0.0001	1.0
10	4	0	11	4	0	1417.2422	1417.2420	0.0002	1.0
12	4	0	11	4	0	1424.0904	1424.0903	0.0001	1.0
13	4	0	14	4	0	1416.3426	1416.3424	0.0002	1.0
13	4	0	12	4	0	1424.3867	1424.3868	-0.0001	1.0
14	4	0	15	4	0	1416.0424	1416.0422	0.0002	1.0
14	4	0	13	4	0	1424.6834	1424.6832	0.0003	0.1
15	4	0	16	4	0	1415.7418	1415.7417	0.0001	1.0
15	4	0	14	4	0	1424.9799	1424.9795	0.0004	1.0
16	4	0	15	4	0	1425.2760	1425.2759	0.0001	1.0
17	4	0	18	4	0	1415.1403	1415.1402	0.0002	1.0
17	4	0	16	4	0	1425.5720	1425.5722	-0.0002	1.0
18	4	0	19	4	0	1414.8391	1414.8391	0.0001	1.0
18	4	0	17	4	0	1425.8683	1425.8685	-0.0002	1.0
19	4	0	20	4	0	1414.5377	1414.5377	0.0000	1.0
19	4	0	18	4	0	1426.1646	1426.1648	-0.0002	0.1
20	4	0	21	4	0	1414.2356	1414.2362	-0.0006	0.1
20	4	0	19	4	0	1426.4609	1426.4611	-0.0002	1.0
21	4	0	20	4	0	1426.7571	1426.7574	-0.0003	1.0
22	4	0	23	4	0	1413.6329	1413.6323	0.0006	0.1
22	4	0	21	4	0	1427.0536	1427.0537	-0.0001	1.0

23	4	0	24	4	0	1413.3299	1413.3299	0.0000	1.0
23	4	0	22	4	0	1427.3512	1427.3499	0.0013	0.1
24	4	0	25	4	0	1413.0272	1413.0272	0.0000	1.0
24	4	0	23	4	0	1427.6476	1427.6462	0.0014	0.1
5	5	0	6	5	0	1418.7629	1418.7634	-0.0005	1.0
6	5	0	5	5	0	1422.3355	1422.3358	-0.0004	1.0
6	5	0	7	5	0	1418.4643	1418.4645	-0.0002	1.0
7	5	0	8	5	0	1418.1650	1418.1655	-0.0004	1.0
7	5	0	6	5	0	1422.6321	1422.6324	-0.0003	1.0
8	5	0	7	5	0	1422.9287	1422.9289	-0.0002	1.0
8	5	0	9	5	0	1417.8660	1417.8662	-0.0002	1.0
9	5	0	10	5	0	1417.5662	1417.5667	-0.0005	1.0
9	5	0	8	5	0	1423.2248	1423.2252	-0.0003	1.0
10	5	0	11	5	0	1417.2672	1417.2669	0.0003	1.0
11	5	0	12	5	0	1416.9673	1416.9670	0.0003	1.0
12	5	0	13	5	0	1416.6674	1416.6669	0.0005	1.0
13	5	0	14	5	0	1416.3673	1416.3665	0.0008	1.0
14	5	0	15	5	0	1416.0670	1416.0659	0.0011	1.0
15	5	0	16	5	0	1415.7664	1415.7651	0.0013	1.0
16	5	0	17	5	0	1415.4655	1415.4641	0.0014	0.1
11	5	0	10	5	0	1423.8177	1423.8173	0.0004	0.1
12	5	0	11	5	0	1424.1147	1424.1132	0.0015	0.1
13	5	0	12	5	0	1424.4106	1424.4089	0.0017	0.1
14	5	0	13	5	0	1424.7064	1424.7045	0.0019	0.1
15	5	0	14	5	0	1425.0017	1425.0000	0.0017	0.1
16	5	0	15	5	0	1425.2969	1425.2953	0.0016	1.0
8	6	0	7	6	0	1422.9587	1422.9589	-0.0003	1.0
8	6	0	9	6	0	1417.8961	1417.8964	-0.0002	1.0
9	6	0	8	6	0	1423.2550	1423.2552	-0.0002	1.0
9	6	0	10	6	0	1417.5966	1417.5970	-0.0004	1.0
12	6	0	11	6	0	1424.1429	1424.1432	-0.0002	1.0
13	6	0	14	6	0	1416.3961	1416.3974	-0.0013	0.1
14	6	0	15	6	0	1416.0963	1416.0970	-0.0007	1.0
15	6	0	16	6	0	1415.7972	1415.7964	0.0008	0.1
16	6	0	17	6	0	1415.4952	1415.4956	-0.0004	1.0
17	6	0	18	6	0	1415.1942	1415.1945	-0.0003	1.0
18	6	0	19	6	0	1414.8930	1414.8933	-0.0003	1.0
19	6	0	20	6	0	1414.5921	1414.5918	0.0003	0.1
20	6	0	21	6	0	1414.2898	1414.2902	-0.0004	1.0
22	6	0	23	6	0	1413.6859	1413.6862	-0.0003	1.0
23	6	0	24	6	0	1413.3834	1413.3839	-0.0005	1.0
24	6	0	25	6	0	1413.0804	1413.0813	-0.0009	0.1
25	6	0	26	6	0	1412.7783	1412.7785	-0.0002	1.0
26	6	0	27	6	0	1412.4752	1412.4755	-0.0003	1.0
27	6	0	28	6	0	1412.1721	1412.1722	-0.0001	1.0
28	6	0	29	6	0	1411.8686	1411.8687	-0.0001	1.0

29	6	0	30	6	0	1411.5650	1411.5649	0.0001	1.0
30	6	0	31	6	0	1411.2611	1411.2609	0.0002	1.0
13	6	0	12	6	0	1424.4385	1424.4389	-0.0004	1.0
14	6	0	13	6	0	1424.7340	1424.7344	-0.0004	1.0
15	6	0	14	6	0	1425.0295	1425.0298	-0.0003	1.0
16	6	0	15	6	0	1425.3248	1425.3250	-0.0002	1.0
17	6	0	16	6	0	1425.6198	1425.6201	-0.0003	1.0
18	6	0	17	6	0	1425.9148	1425.9151	-0.0003	1.0
19	6	0	18	6	0	1426.2098	1426.2099	-0.0001	1.0
20	6	0	19	6	0	1426.5045	1426.5046	-0.0001	1.0
21	6	0	20	6	0	1426.7988	1426.7991	-0.0003	1.0
25	6	0	24	6	0	1427.9766	1427.9759	0.0008	0.1
26	6	0	25	6	0	1428.2703	1428.2697	0.0006	0.1
27	6	0	26	6	0	1428.5639	1428.5634	0.0005	1.0
28	6	0	27	6	0	1428.8573	1428.8570	0.0003	1.0
9	7	0	10	7	0	1417.6295	1417.6286	0.0009	1.0
10	7	0	11	7	0	1417.3297	1417.3293	0.0004	1.0
11	7	0	12	7	0	1417.0300	1417.0298	0.0003	1.0
13	7	0	14	7	0	1416.4298	1416.4302	-0.0004	0.1
14	7	0	15	7	0	1416.1304	1416.1302	0.0002	0.1
15	7	0	16	7	0	1415.8313	1415.8301	0.0012	0.1
16	7	0	17	7	0	1415.5307	1415.5298	0.0009	0.1
17	7	0	18	7	0	1415.2286	1415.2293	-0.0007	1.0
18	7	0	19	7	0	1414.9288	1414.9287	0.0001	1.0
19	7	0	20	7	0	1414.6280	1414.6279	0.0001	1.0
20	7	0	21	7	0	1414.3271	1414.3270	0.0001	1.0
21	7	0	22	7	0	1414.0260	1414.0259	0.0001	1.0
22	7	0	23	7	0	1413.7249	1413.7247	0.0002	1.0
23	7	0	24	7	0	1413.4238	1413.4233	0.0005	1.0
24	7	0	25	7	0	1413.1215	1413.1217	-0.0002	1.0
26	7	0	27	7	0	1412.5179	1412.5182	-0.0003	1.0
10	7	0	9	7	0	1423.5834	1423.5831	0.0003	1.0
11	7	0	10	7	0	1423.8796	1423.8793	0.0003	1.0
12	7	0	11	7	0	1424.1755	1424.1754	0.0001	1.0
14	7	0	13	7	0	1424.7673	1424.7671	0.0002	1.0
15	7	0	14	7	0	1425.0632	1425.0628	0.0004	1.0
16	7	0	15	7	0	1425.3594	1425.3583	0.0011	0.1
17	7	0	16	7	0	1425.6546	1425.6538	0.0008	0.1
18	7	0	17	7	0	1425.9490	1425.9491	-0.0001	0.1
19	7	0	18	7	0	1426.2435	1426.2443	-0.0008	0.1
20	7	0	19	7	0	1426.5390	1426.5395	-0.0005	0.1
21	7	0	20	7	0	1426.8346	1426.8345	0.0001	1.0
22	7	0	21	7	0	1427.1293	1427.1294	-0.0001	1.0
23	7	0	22	7	0	1427.4240	1427.4242	-0.0002	1.0
24	7	0	23	7	0	1427.7189	1427.7189	0.0000	1.0
25	7	0	24	7	0	1428.0137	1428.0135	0.0002	1.0

26	7	0	25	7	0	1428.3078	1428.3080	-0.0002	1.0
9	9	0	10	9	0	1417.6728	1417.6727	0.0001	1.0
10	9	0	11	9	0	1417.3737	1417.3737	0.0000	1.0
11	9	0	12	9	0	1417.0746	1417.0745	0.0001	1.0
14	9	0	15	9	0	1416.1766	1416.1762	0.0005	0.1
15	9	0	16	9	0	1415.8763	1415.8764	-0.0001	1.0
16	9	0	17	9	0	1415.5764	1415.5765	-0.0001	1.0
17	9	0	18	9	0	1415.2762	1415.2765	-0.0003	1.0
18	9	0	19	9	0	1414.9760	1414.9763	-0.0003	0.1
19	9	0	20	9	0	1414.6760	1414.6760	0.0000	1.0
20	9	0	21	9	0	1414.3756	1414.3755	0.0001	0.1
21	9	0	22	9	0	1414.0750	1414.0748	0.0002	1.0
22	9	0	23	9	0	1413.7732	1413.7739	-0.0007	0.1
23	9	0	24	9	0	1413.4733	1413.4729	0.0004	0.1
10	9	0	9	9	0	1423.6279	1423.6276	0.0003	0.1
11	9	0	10	9	0	1423.9242	1423.9241	0.0001	1.0
12	9	0	11	9	0	1424.2204	1424.2204	0.0000	1.0
13	9	0	12	9	0	1424.5171	1424.5166	0.0005	0.1
14	9	0	13	9	0	1424.8127	1424.8127	0.0000	0.1
15	9	0	14	9	0	1425.1086	1425.1086	0.0000	1.0
16	9	0	15	9	0	1425.4040	1425.4044	-0.0004	0.1
17	9	0	16	9	0	1425.7003	1425.7001	0.0002	1.0
18	9	0	17	9	0	1425.9944	1425.9957	-0.0013	1.0
19	9	0	18	9	0	1426.2912	1426.2910	0.0002	1.0
20	9	0	19	9	0	1426.5864	1426.5863	0.0001	1.0
21	9	0	20	9	0	1426.8818	1426.8814	0.0005	1.0
22	9	0	21	9	0	1427.1769	1427.1763	0.0006	1.0
23	9	0	22	9	0	1427.4720	1427.4711	0.0009	0.0
9	9	0	10	10	0	1391.4809	1391.4811	-0.0002	0.1
10	9	0	11	10	0	1391.1819	1391.1820	-0.0001	1.0
11	9	0	12	10	0	1390.8836	1390.8828	0.0008	0.1
14	9	0	15	10	0	1389.9843	1389.9843	0.0000	0.1
9	9	0	8	8	0	1446.7662	1446.7653	0.0009	1.0
10	9	0	9	8	0	1447.0623	1447.0619	0.0004	0.1
11	9	0	10	8	0	1447.3594	1447.3584	0.0010	0.1
14	9	0	13	8	0	1448.2464	1448.2471	-0.0007	1.0
15	9	0	14	8	0	1448.5426	1448.5430	-0.0004	1.0
17	9	0	16	8	0	1449.1340	1449.1344	-0.0004	1.0
19	9	0	18	8	0	1449.7251	1449.7251	0.0001	0.1

Table A-19. Observed and calculated (Fit B) transitions of acrolein in the $16^1 17^1 \leftarrow 0$ combination band (values in cm^{-1}).

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
4	0	4	4	1	3	1548.1556	1548.1554	0.0002	1.0
5	0	5	5	1	4	1548.1175	1548.1177	-0.0002	1.0
6	0	6	6	1	5	1548.0711	1548.0718	-0.0007	1.0
7	0	7	7	1	6	1548.0174	1548.0172	0.0002	1.0
8	0	8	8	1	7	1547.9534	1547.9534	0.0000	1.0
9	0	9	9	1	8	1547.8790	1547.8799	-0.0009	1.0
10	0	10	10	1	9	1547.7958	1547.7962	-0.0004	1.0
11	0	11	11	1	10	1547.7024	1547.7016	0.0008	1.0
12	0	12	12	1	11	1547.5959	1547.5956	0.0003	1.0
13	0	13	13	1	12	1547.4773	1547.4776	-0.0003	1.0
13	0	13	14	1	14	1544.6887	1544.6896	-0.0009	1.0
14	0	14	14	1	13	1547.3471	1547.3470	0.0001	1.0
14	0	14	15	1	15	1544.4632	1544.4638	-0.0006	1.0
15	0	15	15	1	14	1547.2029	1547.2032	-0.0003	1.0
15	0	15	16	1	16	1544.2386	1544.2383	0.0003	1.0
15	0	15	14	1	14	1553.2002	1553.1995	0.0007	1.0
16	0	16	16	1	15	1547.0450	1547.0459	-0.0009	1.0
16	0	16	17	1	17	1544.0121	1544.0123	-0.0002	1.0
17	0	17	18	1	18	1543.7851	1543.7851	0.0000	1.0
18	0	18	19	1	19	1543.5561	1543.5563	-0.0002	1.0
19	0	19	20	1	20	1543.3254	1543.3254	0.0000	1.0
20	0	20	21	1	21	1543.0909	1543.0918	-0.0009	1.0
21	0	21	22	1	22	1542.8561	1542.8554	0.0007	1.0
22	0	22	23	1	23	1542.6161	1542.6159	0.0002	1.0
23	0	23	24	1	24	1542.3726	1542.3732	-0.0006	1.0
25	0	25	26	1	26	1541.8786	1541.8781	0.0005	1.0
20	0	20	21	0	21	1543.5253	1543.5251	0.0002	1.0
21	0	21	22	0	22	1543.2422	1543.2423	-0.0001	1.0
22	0	22	23	0	23	1542.9601	1542.9599	0.0002	1.0
23	0	23	24	0	24	1542.6790	1542.6779	0.0011	1.0
24	0	24	25	0	25	1542.3963	1542.3962	0.0001	1.0
25	0	25	26	0	26	1542.1151	1542.1147	0.0004	1.0
20	0	20	19	0	19	1555.4572	1555.4566	0.0006	1.0
21	0	21	20	0	20	1555.7392	1555.7388	0.0004	1.0
22	0	22	21	0	21	1556.0214	1556.0206	0.0008	1.0
23	0	23	22	0	22	1556.3020	1556.3023	-0.0003	1.0
24	0	24	23	0	23	1556.5836	1556.5838	-0.0002	1.0
25	0	25	24	0	24	1556.8670	1556.8652	0.0018	0.1
6	1	6	7	0	7	1548.8933	1548.8933	0.0000	1.0
7	1	7	8	0	8	1548.5544	1548.5539	0.0005	1.0
8	1	8	9	0	9	1548.2103	1548.2105	-0.0002	1.0
9	1	9	10	0	10	1547.8634	1547.8635	-0.0001	1.0

10	1	10	11	0	11	1547.5140	1547.5139	0.0001	1.0
11	1	11	12	0	12	1547.1624	1547.1623	0.0001	1.0
12	1	12	13	0	13	1546.8103	1546.8096	0.0007	1.0
13	1	13	14	0	14	1546.4567	1546.4565	0.0002	1.0
14	1	14	15	0	15	1546.1045	1546.1039	0.0006	1.0
15	1	15	16	0	16	1545.7518	1545.7523	-0.0005	1.0
19	1	19	20	0	20	1544.3690	1544.3697	-0.0007	1.0
20	1	20	21	0	21	1544.0321	1544.0322	-0.0001	1.0
21	1	21	22	0	22	1543.6985	1543.6984	0.0001	1.0
22	1	22	23	0	23	1543.3685	1543.3685	0.0000	1.0
23	1	23	24	0	24	1543.0424	1543.0424	0.0000	1.0
24	1	24	25	0	25	1542.7198	1542.7202	-0.0004	1.0
26	1	26	27	0	27	1542.0861	1542.0866	-0.0005	1.0
8	1	7	8	0	8	1551.3611	1551.3613	-0.0002	1.0
10	1	9	10	2	8	1545.6891	1545.6905	-0.0014	1.0
10	1	9	10	0	10	1551.5083	1551.5071	0.0012	1.0
11	1	10	11	2	9	1545.7393	1545.7386	0.0007	1.0
11	1	10	11	0	11	1551.5967	1551.5954	0.0013	1.0
12	1	11	12	2	10	1545.7861	1545.7862	-0.0001	1.0
12	1	11	12	0	12	1551.6940	1551.6949	-0.0009	1.0
13	1	12	13	2	11	1545.8323	1545.8321	0.0002	1.0
13	1	12	13	0	13	1551.8067	1551.8062	0.0006	1.0
14	1	13	14	2	12	1545.8756	1545.8753	0.0003	1.0
14	1	13	14	0	14	1551.9289	1551.9299	-0.0010	1.0
15	1	14	15	2	13	1545.9149	1545.9145	0.0004	1.0
16	1	15	16	2	14	1545.9497	1545.9486	0.0012	1.0
17	1	16	17	2	15	1545.9771	1545.9762	0.0009	1.0
19	1	18	19	2	17	1546.0084	1546.0080	0.0004	1.0
20	1	19	20	2	18	1546.0103	1546.0101	0.0002	1.0
22	1	21	22	2	20	1545.9827	1545.9820	0.0007	1.0
23	1	22	23	2	21	1545.9497	1545.9502	-0.0005	0.1
24	1	23	24	2	22	1545.9068	1545.9056	0.0012	1.0
25	1	24	25	2	23	1545.8469	1545.8476	-0.0007	1.0
26	1	25	26	2	24	1545.7760	1545.7755	0.0005	1.0
19	1	18	20	1	19	1543.5715	1543.5715	0.0000	1.0
20	1	19	21	1	20	1543.2686	1543.2686	0.0000	1.0
21	1	20	22	1	21	1542.9665	1542.9667	-0.0002	1.0
22	1	21	23	1	22	1542.6653	1542.6657	-0.0004	1.0
23	1	22	24	1	23	1542.3652	1542.3658	-0.0006	1.0
19	1	18	18	1	17	1555.3472	1555.3483	-0.0011	0.1
20	1	19	19	1	18	1555.6400	1555.6398	0.0002	1.0
21	1	20	20	1	19	1555.9308	1555.9304	0.0004	1.0
22	1	21	21	1	20	1556.2207	1556.2203	0.0004	1.0
23	1	22	22	1	21	1556.5094	1556.5093	0.0002	1.0
19	1	18	19	0	19	1552.7515	1552.7517	-0.0002	1.0
20	1	19	20	0	20	1552.9586	1552.9584	0.0002	1.0

21	1	20	21	0	21	1553.1784	1553.1791	-0.0007	1.0
22	1	21	22	0	22	1553.4134	1553.4135	-0.0001	1.0
23	1	22	23	0	23	1553.6620	1553.6609	0.0011	1.0
13	2	12	13	3	11	1542.5155	1542.5166	-0.0011	1.0
14	2	13	14	3	12	1542.5002	1542.5006	-0.0004	1.0
15	2	14	15	3	13	1542.4810	1542.4818	-0.0008	1.0
16	2	15	16	3	14	1542.4603	1542.4598	0.0005	0.1
17	2	16	17	3	15	1542.4331	1542.4343	-0.0012	0.1
21	2	20	21	3	19	1542.2919	1542.2912	0.0007	0.1
22	2	21	22	3	20	1542.2425	1542.2436	-0.0011	0.1
25	2	24	25	3	23	1542.0665	1542.0680	-0.0015	0.1
16	2	15	17	3	14	1537.3857	1537.3866	-0.0009	1.0
18	2	17	19	3	16	1536.7201	1536.7198	0.0003	1.0
16	2	15	16	1	16	1554.9594	1554.9580	0.0014	0.1
17	2	16	17	1	17	1555.0760	1555.0767	-0.0007	1.0
18	2	17	18	1	18	1555.2029	1555.2027	0.0002	0.1
19	2	18	19	1	19	1555.3352	1555.3359	-0.0007	0.1
20	2	19	20	1	20	1555.4765	1555.4764	0.0001	1.0
21	2	20	21	1	21	1555.6230	1555.6241	-0.0011	1.0
22	2	21	22	1	22	1555.7784	1555.7790	-0.0006	0.1
19	2	18	18	1	17	1558.4686	1558.4690	-0.0004	1.0
17	2	16	18	2	17	1544.3656	1544.3661	-0.0005	1.0
18	2	17	19	2	18	1544.0682	1544.0679	0.0003	1.0
19	2	18	20	2	19	1543.7695	1543.7699	-0.0004	1.0
20	2	19	21	2	20	1543.4718	1543.4722	-0.0004	1.0
21	2	20	22	2	21	1543.1755	1543.1747	0.0008	1.0
22	2	21	23	2	22	1542.8770	1542.8775	-0.0005	1.0
23	2	22	24	2	23	1542.5796	1542.5806	-0.0010	0.1
17	2	16	16	2	15	1554.7281	1554.7286	-0.0005	0.1
18	2	17	17	2	16	1555.0186	1555.0187	-0.0001	1.0
19	2	18	18	2	17	1555.3083	1555.3084	-0.0001	1.0
20	2	19	19	2	18	1555.5975	1555.5977	-0.0002	1.0
21	2	20	20	2	19	1555.8874	1555.8865	0.0009	1.0
22	2	21	21	2	20	1556.1741	1556.1749	-0.0008	1.0
23	2	22	22	2	21	1556.4622	1556.4629	-0.0007	1.0
9	2	7	9	1	8	1553.7373	1553.7368	0.0005	1.0
10	2	8	10	1	9	1553.6815	1553.6820	-0.0005	1.0
11	2	9	11	1	10	1553.6260	1553.6257	0.0003	1.0
12	2	10	12	1	11	1553.5691	1553.5690	0.0001	1.0
13	2	11	13	1	12	1553.5128	1553.5131	-0.0003	1.0
14	2	12	14	1	13	1553.4591	1553.4591	0.0000	1.0
15	2	13	15	1	14	1553.4079	1553.4083	-0.0004	1.0
16	2	14	16	1	15	1553.3616	1553.3619	-0.0003	1.0
17	2	15	17	1	16	1553.3221	1553.3210	0.0012	0.1
18	2	16	18	1	17	1553.2868	1553.2868	0.0000	1.0
19	2	17	19	1	18	1553.2604	1553.2605	-0.0001	1.0

23	2	21	23	1	22	1553.2546	1553.2543	0.0003	1.0
24	2	22	24	1	23	1553.2819	1553.2820	-0.0001	1.0
25	2	23	25	1	24	1553.3221	1553.3231	-0.0010	0.1
26	2	24	26	1	25	1553.3776	1553.3782	-0.0006	1.0
16	2	14	15	2	13	1554.4864	1554.4871	-0.0007	1.0
17	2	15	16	2	14	1554.7851	1554.7855	-0.0004	1.0
18	2	16	17	2	15	1555.0831	1555.0837	-0.0006	1.0
19	2	17	18	2	16	1555.3813	1555.3818	-0.0005	1.0
20	2	18	19	2	17	1555.6797	1555.6797	0.0001	1.0
21	2	19	20	2	18	1555.9772	1555.9771	0.0001	1.0
22	2	20	21	2	19	1556.2739	1556.2741	-0.0002	1.0
23	2	21	22	2	20	1556.5707	1556.5706	0.0001	1.0
24	2	22	23	2	21	1556.8670	1556.8664	0.0006	0.1
27	2	25	26	2	24	1557.7503	1557.7497	0.0006	1.0
28	2	26	27	2	25	1558.0414	1558.0426	-0.0012	1.0
5	3	0	6	4	0	1538.0231	1538.0236	-0.0005	1.0
6	3	0	7	4	0	1537.7252	1537.7250	0.0002	1.0
7	3	0	8	4	0	1537.4270	1537.4262	0.0008	1.0
8	3	0	9	4	0	1537.1272	1537.1272	0.0000	1.0
10	3	0	11	4	0	1536.5286	1536.5289	-0.0003	1.0
11	3	0	12	4	0	1536.2298	1536.2296	0.0002	1.0
11	3	0	12	3	0	1546.2394	1546.2393	0.0001	1.0
12	3	0	13	3	0	1545.9383	1545.9379	0.0004	1.0
13	3	0	14	3	0	1545.6360	1545.6360	0.0000	1.0
11	3	0	10	3	0	1553.0758	1553.0756	0.0002	1.0
12	3	0	11	3	0	1553.3706	1553.3698	0.0008	1.0
13	3	0	12	3	0	1553.6631	1553.6639	-0.0008	1.0
12	3	10	12	2	11	1556.9860	1556.9858	0.0002	1.0
13	3	11	13	2	12	1556.9920	1556.9921	-0.0001	1.0
15	3	13	15	2	14	1557.0109	1557.0113	-0.0004	1.0
16	3	14	16	2	15	1557.0256	1557.0247	0.0009	1.0
17	3	15	17	2	16	1557.0417	1557.0412	0.0005	1.0
18	3	16	18	2	17	1557.0614	1557.0611	0.0003	1.0
19	3	17	19	2	18	1557.0847	1557.0847	0.0000	1.0
20	3	18	20	2	19	1557.1128	1557.1123	0.0005	1.0
21	3	19	21	2	20	1557.1450	1557.1442	0.0008	0.1
22	3	20	22	2	21	1557.1813	1557.1808	0.0005	1.0
23	3	21	23	2	22	1557.2219	1557.2224	-0.0005	1.0
24	3	22	24	2	23	1557.2687	1557.2693	-0.0006	0.1
25	3	23	25	2	24	1557.3212	1557.3217	-0.0005	1.0
26	3	24	26	2	25	1557.3804	1557.3800	0.0004	1.0
15	3	13	14	3	12	1554.2505	1554.2505	0.0000	1.0
16	3	14	15	3	13	1554.5433	1554.5437	-0.0004	1.0
17	3	15	16	3	14	1554.8372	1554.8367	0.0005	1.0
18	3	16	17	3	15	1555.1294	1555.1294	0.0000	1.0
19	3	17	18	3	16	1555.4219	1555.4218	0.0001	1.0

20	3	18	19	3	17	1555.7143	1555.7140	0.0003	1.0
21	3	19	20	3	18	1556.0063	1556.0058	0.0005	0.1
22	3	20	21	3	19	1556.2971	1556.2974	-0.0003	1.0
23	3	21	22	3	20	1556.5888	1556.5886	0.0002	1.0
24	3	22	23	3	21	1556.8788	1556.8795	-0.0007	0.1
25	3	23	24	3	22	1557.1695	1557.1700	-0.0005	0.1
26	3	24	25	3	23	1557.4602	1557.4603	-0.0001	1.0
15	3	13	16	3	14	1545.0342	1545.0331	0.0011	0.1
16	3	14	17	3	15	1544.7303	1544.7305	-0.0002	0.1
17	3	15	18	3	16	1544.4284	1544.4276	0.0008	0.1
18	3	16	19	3	17	1544.1240	1544.1244	-0.0004	0.1
19	3	17	20	3	18	1543.8211	1543.8208	0.0003	1.0
20	3	18	21	3	19	1543.5172	1543.5170	0.0002	1.0
21	3	19	22	3	20	1543.2123	1543.2130	-0.0007	1.0
22	3	20	23	3	21	1542.9096	1542.9087	0.0009	1.0
23	3	21	24	3	22	1542.6036	1542.6043	-0.0007	1.0
24	3	22	25	3	23	1542.3000	1542.2998	0.0003	1.0
26	3	24	27	3	25	1541.6908	1541.6904	0.0004	0.1
10	3	7	10	2	8	1556.9296	1556.9292	0.0004	1.0
12	3	9	12	2	10	1556.8881	1556.8881	0.0000	1.0
14	3	11	14	2	12	1556.8265	1556.8265	0.0000	1.0
15	3	12	15	2	13	1556.7874	1556.7866	0.0008	1.0
4	4	0	3	3	0	1561.1510	1561.1513	-0.0003	1.0
5	4	0	4	3	0	1561.4465	1561.4469	-0.0004	1.0
6	4	0	5	3	0	1561.7421	1561.7422	-0.0001	1.0
7	4	0	6	3	0	1562.0375	1562.0372	0.0004	1.0
8	4	0	7	3	0	1562.3317	1562.3317	0.0000	1.0
9	4	0	8	3	0	1562.6258	1562.6259	-0.0001	1.0
11	4	0	10	3	0	1563.2128	1563.2129	-0.0001	1.0
12	4	0	11	3	0	1563.5059	1563.5056	0.0003	1.0
13	4	9	12	3	10	1563.7987	1563.7988	-0.0001	1.0
14	4	10	13	3	11	1564.0909	1564.0908	0.0001	1.0
15	4	11	14	3	12	1564.3828	1564.3824	0.0004	1.0
13	4	10	12	3	9	1563.7968	1563.7964	0.0004	1.0
14	4	11	13	3	10	1564.0862	1564.0871	-0.0009	1.0
15	4	12	14	3	11	1564.3774	1564.3766	0.0008	1.0
4	4	0	5	5	0	1535.5880	1535.5879	0.0001	1.0
5	4	0	6	5	0	1535.2896	1535.2895	0.0001	1.0
6	4	0	7	5	0	1534.9913	1534.9908	0.0005	1.0
7	4	0	8	5	0	1534.6919	1534.6919	0.0000	1.0
9	4	0	10	5	0	1534.0939	1534.0934	0.0005	1.0
10	4	0	11	5	0	1533.7930	1533.7938	-0.0008	1.0
11	4	0	12	5	0	1533.4941	1533.4940	0.0001	1.0
12	4	0	13	5	0	1533.1947	1533.1940	0.0007	1.0
13	4	0	14	5	0	1532.8938	1532.8938	0.0000	0.1
14	4	0	15	5	0	1532.5933	1532.5935	-0.0002	0.1

5	5	0	4	4	0	1564.4641	1564.4635	0.0006	1.0
6	5	0	7	6	0	1532.2888	1532.2891	-0.0003	1.0
6	5	0	5	4	0	1564.7590	1564.7589	0.0001	1.0
7	5	0	6	4	0	1565.0544	1565.0540	0.0004	1.0
7	5	0	8	6	0	1531.9923	1531.9902	0.0021	0.1
8	5	0	7	4	0	1565.3489	1565.3488	0.0001	1.0
8	5	0	9	6	0	1531.6916	1531.6911	0.0006	1.0
9	5	0	10	6	0	1531.3914	1531.3917	-0.0003	1.0
9	5	0	8	4	0	1565.6432	1565.6433	-0.0001	1.0
10	5	0	11	6	0	1531.0912	1531.0920	-0.0008	1.0
11	5	0	12	6	0	1530.7918	1530.7922	-0.0004	1.0
12	5	0	13	6	0	1530.4914	1530.4921	-0.0007	1.0
13	5	0	14	6	0	1530.1908	1530.1917	-0.0009	1.0
14	5	0	15	6	0	1529.8913	1529.8912	0.0001	1.0
15	5	0	16	6	0	1529.5906	1529.5905	0.0001	1.0
16	5	0	17	6	0	1529.2894	1529.2895	-0.0001	1.0
18	5	0	19	6	0	1528.6869	1528.6872	-0.0003	1.0
19	5	0	20	6	0	1528.3851	1528.3858	-0.0007	1.0
20	5	0	21	6	0	1528.0845	1528.0843	0.0002	1.0
11	5	0	10	4	0	1566.2314	1566.2313	0.0001	1.0
12	5	0	11	4	0	1566.5246	1566.5248	-0.0002	1.0
13	5	0	12	4	0	1566.8177	1566.8178	-0.0001	1.0
14	5	0	13	4	0	1567.1104	1567.1103	0.0001	1.0
15	5	0	14	4	0	1567.4019	1567.4024	-0.0005	1.0
16	5	0	15	4	0	1567.6939	1567.6940	-0.0001	1.0
17	5	0	16	4	0	1567.9856	1567.9850	0.0006	1.0
18	5	0	17	4	0	1568.2756	1568.2755	0.0002	1.0
19	5	0	18	4	0	1568.5653	1568.5652	0.0001	1.0
20	5	0	19	4	0	1568.8544	1568.8543	0.0001	1.0
6	6	0	7	7	0	1529.6486	1529.6484	0.0002	1.0
6	6	0	5	5	0	1567.8341	1567.8337	0.0004	1.0
7	6	0	8	7	0	1529.3503	1529.3499	0.0004	1.0
7	6	0	6	5	0	1568.1293	1568.1293	0.0000	1.0
8	6	0	7	5	0	1568.4247	1568.4248	-0.0001	1.0
9	6	0	10	7	0	1528.7524	1528.7525	-0.0001	1.0
9	6	0	8	5	0	1568.7202	1568.7200	0.0002	1.0
10	6	0	11	7	0	1528.4533	1528.4536	-0.0003	1.0
11	6	0	12	7	0	1528.1544	1528.1546	-0.0002	1.0
11	6	0	10	5	0	1569.3090	1569.3099	-0.0009	1.0
12	6	0	13	7	0	1527.8555	1527.8554	0.0001	1.0
12	6	0	11	5	0	1569.6046	1569.6047	-0.0001	1.0
13	6	0	14	7	0	1527.5560	1527.5563	-0.0003	1.0
13	6	0	12	5	0	1569.8990	1569.8992	-0.0002	1.0
14	6	0	13	5	0	1570.1942	1570.1937	0.0006	1.0
15	6	0	14	5	0	1570.4878	1570.4880	-0.0002	1.0
16	6	0	17	7	0	1526.6588	1526.6587	0.0001	1.0

17	6	0	18	7	0	1526.3595	1526.3598	-0.0003	0.1
19	6	0	20	7	0	1525.7622	1525.7628	-0.0006	1.0
22	6	0	23	7	0	1524.8721	1524.8716	0.0005	1.0
23	6	0	24	7	0	1524.5764	1524.5765	-0.0001	1.0
16	6	0	15	5	0	1570.7823	1570.7822	0.0001	1.0
17	6	0	16	5	0	1571.0757	1571.0764	-0.0007	1.0
18	6	0	17	5	0	1571.3701	1571.3706	-0.0005	1.0
19	6	0	18	5	0	1571.6659	1571.6649	0.0010	1.0
21	6	0	20	5	0	1572.2546	1572.2543	0.0003	1.0
22	6	0	21	5	0	1572.5495	1572.5497	-0.0002	1.0
7	7	0	8	8	0	1526.6960	1526.6968	-0.0008	1.0
7	7	0	6	6	0	1571.1885	1571.1883	0.0002	1.0
8	7	0	9	8	0	1526.3982	1526.3979	0.0003	1.0
8	7	0	7	6	0	1571.4838	1571.4835	0.0003	1.0
9	7	0	8	6	0	1571.7786	1571.7785	0.0002	1.0
10	7	0	11	8	0	1525.7997	1525.7994	0.0003	1.0
11	7	0	10	6	0	1572.3678	1572.3676	0.0002	1.0
12	7	0	11	6	0	1572.6620	1572.6618	0.0002	1.0
13	7	0	14	8	0	1524.8997	1524.9000	-0.0003	1.0
13	7	0	12	6	0	1572.9556	1572.9558	-0.0002	1.0
14	7	0	15	8	0	1524.5990	1524.5998	-0.0008	1.0
14	7	0	13	6	0	1573.2490	1573.2494	-0.0004	1.0
15	7	0	16	8	0	1524.2986	1524.2994	-0.0008	1.0
15	7	0	14	6	0	1573.5434	1573.5428	0.0006	1.0
16	7	0	17	8	0	1523.9992	1523.9987	0.0005	1.0
16	7	0	15	6	0	1573.8363	1573.8359	0.0004	1.0
17	7	0	18	8	0	1523.6987	1523.6979	0.0008	0.1
17	7	0	16	6	0	1574.1294	1574.1287	0.0007	1.0
18	7	0	19	8	0	1523.3985	1523.3969	0.0016	0.1
18	7	0	17	6	0	1574.4227	1574.4212	0.0015	0.1
19	7	0	20	8	0	1523.0968	1523.0958	0.0010	0.1
19	7	0	18	6	0	1574.7143	1574.7134	0.0009	0.1
8	8	0	9	9	0	1523.7874	1523.7869	0.0005	0.1
9	8	0	10	9	0	1523.4883	1523.4887	-0.0004	1.0
9	8	0	8	7	0	1574.8755	1574.8766	-0.0011	0.1
10	8	0	11	9	0	1523.1908	1523.1903	0.0005	1.0
10	8	0	9	7	0	1575.1720	1575.1723	-0.0003	1.0
11	8	0	12	9	0	1522.8918	1522.8918	0.0000	1.0
11	8	0	10	7	0	1575.4681	1575.4680	0.0002	1.0
12	8	0	11	7	0	1575.7633	1575.7634	-0.0001	1.0
12	8	0	13	9	0	1522.5937	1522.5932	0.0005	1.0
14	8	0	15	9	0	1521.9956	1521.9956	0.0001	1.0
14	8	0	13	7	0	1576.3538	1576.3539	-0.0001	1.0
15	8	0	16	9	0	1521.6962	1521.6966	-0.0004	1.0
15	8	0	14	7	0	1576.6486	1576.6489	-0.0003	1.0

Table A-20. Observed and calculated (Fit B) transitions of acrolein in the $15^1 17^1 \leftarrow 0$ combination band (values in cm^{-1}).

*These perturbing state transitions are assigned to the $12^1 14^1$ state.

J'	Ka'	Kc'	J''	Ka''	Kc''	Observed	Calculated	Obs-Calc	Weight
4	0	4	4	1	3	1583.3122	1583.3121	0.0001	1.0
5	0	5	5	1	4	1583.2761	1583.2759	0.0002	1.0
6	0	6	6	1	5	1583.2319	1583.2316	0.0003	1.0
7	0	7	7	1	6	1583.1785	1583.1788	-0.0003	1.0
8	0	8	8	1	7	1583.1173	1583.1170	0.0003	1.0
9	0	9	9	1	8	1583.0458	1583.0456	0.0002	1.0
10	0	10	9	1	9	1586.6240	1586.6238	0.0002	1.0
10	0	10	10	1	9	1582.9628	1582.9641	-0.0013	1.0
11	0	11	11	1	10	1582.8725	1582.8718	0.0007	1.0
12	0	12	11	1	11	1587.3231	1587.3231	0.0000	1.0
12	0	12	12	1	11	1582.7688	1582.7681	0.0007	1.0
13	0	13	12	1	12	1587.6755	1587.6748	0.0007	1.0
13	0	13	13	1	12	1582.6521	1582.6523	-0.0002	1.0
13	0	13	14	1	14	1579.8642	1579.8643	-0.0001	1.0
14	0	14	15	1	15	1579.6409	1579.6408	0.0001	1.0
14	0	14	14	1	13	1582.5239	1582.5239	0.0000	1.0
14	0	14	13	1	13	1588.0270	1588.0269	0.0001	1.0
15	0	15	15	1	14	1582.3827	1582.3824	0.0003	1.0
15	0	15	16	1	16	1579.4167	1579.4174	-0.0007	1.0
16	0	16	16	1	15	1582.2264	1582.2272	-0.0008	1.0
16	0	16	17	1	17	1579.1938	1579.1936	0.0003	1.0
17	0	17	17	1	16	1582.0579	1582.0581	-0.0002	1.0
18	0	18	18	1	17	1581.8755	1581.8749	0.0006	1.0
19	0	19	19	1	18	1581.6780	1581.6777	0.0003	1.0
20	0	20	20	1	19	1581.4670	1581.4668	0.0002	1.0
21	0	21	21	1	20	1581.2438	1581.2436	0.0002	1.0
22	0	22	22	1	21	1581.0167	1581.0176	-0.0009	0.1
23	0	23	23	1	22	1580.7367	1580.7367	0.0000	1.0
24	0	24	24	1	23	1580.4776	1580.4778	-0.0002	1.0
25	0	25	25	1	24	1580.2042	1580.2043	-0.0001	1.0
26	0	26	26	1	25	1579.9197	1579.9202	-0.0005	1.0
27	0	27	27	1	26	1579.6272	1579.6275	-0.0003	0.1
28	0	28	28	1	27	1579.3285	1579.3285	0.0000	0.1
29	0	29	29	1	28	1579.0284	1579.0279	0.0006	0.1
20	0	20	19	1	19	1590.1106	1590.1105	0.0001	1.0
21	0	21	20	1	20	1590.4498	1590.4501	-0.0003	1.0
22	0	22	21	1	21	1590.7962	1590.7968	-0.0006	1.0
23	0	23	22	1	22	1591.0974	1591.0976	-0.0002	1.0

24	0	24	23	1	23	1591.4292	1591.4289	0.0003	1.0
25	0	25	24	1	24	1591.7533	1591.7533	0.0001	1.0
17	0	17	18	1	18	1578.9686	1578.9685	0.0001	1.0
18	0	18	19	1	19	1578.7419	1578.7418	0.0001	1.0
19	0	19	20	1	20	1578.5127	1578.5131	-0.0004	1.0
20	0	20	21	1	21	1578.2826	1578.2822	0.0004	1.0
21	0	21	22	1	22	1578.0500	1578.0500	0.0001	0.1
22	0	22	23	1	23	1577.8252	1577.8253	-0.0001	1.0
23	0	23	24	1	24	1577.5554	1577.5554	0.0001	1.0
24	0	24	25	1	25	1577.3166	1577.3163	0.0003	1.0
25	0	25	26	1	26	1577.0707	1577.0708	-0.0001	1.0
26	0	26	27	1	27	1576.8216	1576.8219	-0.0003	1.0
27	0	27	28	1	28	1576.5706	1576.5706	0.0000	1.0
28	0	28	29	1	29	1576.3182	1576.3184	-0.0002	1.0
29	0	29	30	1	30	1576.0683	1576.0688	-0.0005	1.0
30	0	30	31	1	31	1575.8380	1575.8385	-0.0005	0.1
7	1	7	8	0	8	1583.6859	1583.6860	-0.0001	1.0
10	1	10	9	0	9	1588.8480	1588.8481	-0.0001	1.0
11	1	11	12	0	12	1582.3014	1582.3014	0.0000	1.0
12	1	12	13	0	13	1581.9510	1581.9508	0.0002	1.0
13	1	13	14	0	14	1581.6004	1581.6001	0.0003	1.0
14	1	14	15	0	15	1581.2501	1581.2499	0.0002	1.0
15	1	15	16	0	16	1580.9010	1580.9011	-0.0001	1.0
16	1	16	17	0	17	1580.5541	1580.5543	-0.0002	1.0
17	1	17	18	0	18	1580.2101	1580.2101	0.0000	1.0
18	1	18	19	0	19	1579.8696	1579.8692	0.0005	1.0
19	1	19	20	0	20	1579.5322	1579.5320	0.0002	1.0
20	1	20	21	0	21	1579.1994	1579.1992	0.0002	1.0
21	1	21	22	0	22	1578.8715	1578.8716	-0.0001	1.0
22	1	22	23	0	23	1578.5510	1578.5511	-0.0001	1.0
23	1	23	24	0	24	1578.2433	1578.2435	-0.0002	1.0
24	1	24	25	0	25	1577.9738	1577.9745	-0.0007	1.0
25	1	25	26	0	26	1577.5272	1577.5265	0.0007	1.0
26	1	26	27	0	27	1577.2341	1577.2334	0.0007	1.0
27	1	27	28	0	28	1576.9330	1576.9325	0.0005	1.0
28	1	28	29	0	29	1576.6315	1576.6314	0.0001	1.0
29	1	29	30	0	30	1576.3329	1576.3326	0.0003	1.0
30	1	30	31	0	31	1576.0428	1576.0427	0.0001	1.0
20	1	20	19	0	19	1591.1306	1591.1307	-0.0001	1.0
22	1	22	21	0	21	1591.6116	1591.6119	-0.0003	1.0
23	1	23	22	0	22	1591.8672	1591.8679	-0.0007	1.0
24	1	24	23	0	23	1592.1611	1592.1621	-0.0010	1.0
25	1	25	24	0	24	1592.2773	1592.2770	0.0003	1.0
26	1	26	25	0	25	1592.5468	1592.5467	0.0001	1.0
27	1	27	26	0	26	1592.8087	1592.8085	0.0002	1.0
28	1	28	27	0	27	1593.0704	1593.0701	0.0003	1.0

30	1	30	29	0	29	1593.6068	1593.6071	-0.0003	1.0
4	1	3	4	0	4	1586.3068	1586.3069	-0.0001	1.0
6	1	5	6	0	6	1586.3869	1586.3876	-0.0007	1.0
7	1	6	7	0	7	1586.4406	1586.4405	0.0001	1.0
8	1	7	8	0	8	1586.5026	1586.5025	0.0001	1.0
9	1	8	9	0	9	1586.5743	1586.5740	0.0003	1.0
11	1	10	11	0	11	1586.7481	1586.7483	-0.0002	1.0
11	1	10	11	2	9	1580.8912	1580.8914	-0.0002	1.0
12	1	11	12	2	10	1580.9430	1580.9435	-0.0005	1.0
12	1	11	12	0	12	1586.8521	1586.8523	-0.0002	1.0
13	1	12	13	2	11	1580.9944	1580.9943	0.0001	1.0
14	1	13	14	2	12	1581.0429	1581.0426	0.0003	1.0
14	1	13	14	0	14	1587.0969	1587.0971	-0.0002	1.0
15	1	14	15	2	13	1581.0871	1581.0871	0.0000	1.0
15	1	14	15	0	15	1587.2396	1587.2392	0.0004	1.0
16	1	15	16	2	14	1581.1265	1581.1267	-0.0002	1.0
16	1	15	16	0	16	1587.3952	1587.3949	0.0003	1.0
17	1	16	17	2	15	1581.1601	1581.1600	0.0001	1.0
17	1	16	17	0	17	1587.5649	1587.5647	0.0002	1.0
18	1	17	18	2	16	1581.1861	1581.1861	0.0000	1.0
18	1	17	18	0	18	1587.7488	1587.7488	0.0000	1.0
19	1	18	19	2	17	1581.2036	1581.2037	-0.0001	1.0
22	1	21	22	2	20	1581.1962	1581.1958	0.0005	1.0
23	1	22	23	2	21	1581.1698	1581.1699	-0.0001	1.0
24	1	23	24	2	22	1581.1317	1581.1306	0.0011	1.0
25	1	24	25	2	23	1581.0792	1581.0798	-0.0006	1.0
26	1	25	26	2	24	1581.0128	1581.0129	-0.0001	1.0
27	1	26	27	2	25	1580.9321	1580.9316	0.0006	1.0
28	1	27	28	2	26	1580.8351	1580.8350	0.0001	1.0
29	1	28	29	2	27	1580.7220	1580.7227	-0.0007	1.0
7	2	6	7	3	5	1577.6182	1577.6174	0.0008	0.1
8	2	7	8	3	6	1577.6140	1577.6140	0.0000	1.0
9	2	8	9	3	7	1577.6092	1577.6096	-0.0004	1.0
10	2	9	10	3	8	1577.6035	1577.6038	-0.0003	1.0
11	2	10	11	3	9	1577.5959	1577.5965	-0.0006	1.0
12	2	11	12	3	10	1577.5875	1577.5875	0.0000	1.0
13	2	12	13	3	11	1577.5767	1577.5764	0.0003	1.0
14	2	13	14	3	12	1577.5628	1577.5631	-0.0003	1.0
15	2	14	15	3	13	1577.5469	1577.5471	-0.0002	1.0
16	2	15	16	3	14	1577.5272	1577.5282	-0.0010	1.0
17	2	16	17	3	15	1577.5058	1577.5061	-0.0003	1.0
18	2	17	18	3	16	1577.4811	1577.4805	0.0006	1.0
19	2	18	19	3	17	1577.4509	1577.4510	-0.0001	1.0
20	2	19	20	3	18	1577.4177	1577.4174	0.0003	1.0
21	2	20	21	3	19	1577.3793	1577.3792	0.0001	1.0
22	2	21	22	3	20	1577.3359	1577.3362	-0.0003	1.0

23	2	22	23	3	21	1577.2880	1577.2881	-0.0001	1.0
25	2	24	25	3	23	1577.1754	1577.1754	0.0000	1.0
7	2	6	7	1	7	1589.2643	1589.2646	-0.0003	1.0
8	2	7	8	1	8	1589.3207	1589.3200	0.0008	0.1
9	2	8	9	1	9	1589.3824	1589.3825	-0.0001	1.0
10	2	9	10	1	10	1589.4534	1589.4523	0.0012	1.0
12	2	11	12	1	12	1589.6134	1589.6138	-0.0004	0.1
13	2	12	13	1	13	1589.7060	1589.7056	0.0004	0.1
7	2	5	7	3	4	1577.6299	1577.6299	0.0001	1.0
8	2	6	8	3	5	1577.6358	1577.6346	0.0012	1.0
9	2	7	9	3	6	1577.6417	1577.6416	0.0001	1.0
10	2	8	10	3	7	1577.6527	1577.6515	0.0012	0.1
11	2	9	11	3	8	1577.6645	1577.6646	-0.0001	0.1
12	2	10	12	3	9	1577.6820	1577.6815	0.0005	0.1
13	2	11	13	3	10	1577.7029	1577.7027	0.0002	1.0
14	2	12	14	3	11	1577.7280	1577.7284	-0.0004	1.0
15	2	13	15	3	12	1577.7583	1577.7586	-0.0003	1.0
16	2	14	16	3	13	1577.7939	1577.7933	0.0007	1.0
17	2	15	17	3	14	1577.8318	1577.8315	0.0003	1.0
18	2	16	18	3	15	1577.8715	1577.8717	-0.0002	1.0
18	3	15	18	3	15	1578.0741	1578.0751	-0.0010	0.1*
19	2	17	19	3	16	1577.9116	1577.9116	0.0000	1.0
19	3	16	19	3	16	1578.1077	1578.1081	-0.0004	0.1*
20	2	18	20	3	17	1578.1512	1578.1511	0.0001	1.0
20	3	17	20	3	17	1577.9482	1577.9485	-0.0003	1.0*
21	2	19	21	3	18	1578.2057	1578.2057	0.0000	0.1
21	3	18	21	3	18	1577.9803	1577.9805	-0.0002	1.0*
22	2	20	22	3	19	1578.2710	1578.2711	-0.0001	0.1
23	2	21	23	3	20	1578.3461	1578.3455	0.0006	1.0
24	2	22	24	3	21	1578.4260	1578.4266	-0.0006	1.0
25	2	23	25	3	22	1578.5128	1578.5127	0.0001	0.1
8	2	6	8	1	7	1588.8404	1588.8405	-0.0001	1.0
9	2	7	9	1	8	1588.7904	1588.7899	0.0005	1.0
10	2	8	10	1	9	1588.7371	1588.7370	0.0002	1.0
11	2	9	11	1	10	1588.6824	1588.6827	-0.0003	1.0
12	2	10	12	1	11	1588.6279	1588.6282	-0.0003	0.1
14	2	12	14	1	13	1588.5217	1588.5222	-0.0005	0.1
15	2	13	15	1	14	1588.4724	1588.4726	-0.0002	1.0
16	2	14	16	1	15	1588.4259	1588.4261	-0.0002	1.0
17	2	15	17	1	16	1588.3828	1588.3828	0.0000	1.0
18	2	16	18	1	17	1588.3424	1588.3423	0.0001	1.0
19	2	17	19	1	18	1588.3029	1588.3032	-0.0003	1.0
19	3	16	19	1	18	1588.4995	1588.4996	-0.0001	0.1*
20	2	18	20	1	19	1588.4659	1588.4667	-0.0008	1.0
20	3	17	20	1	19	1588.2645	1588.2640	0.0005	1.0*
21	2	19	21	1	20	1588.4494	1588.4497	-0.0003	1.0

21	3	18	21	1	20	1588.2240	1588.2245	-0.0005	1.0*
22	2	20	22	1	21	1588.4494	1588.4493	0.0001	0.1
23	2	21	23	1	22	1588.4659	1588.4653	0.0006	1.0
24	2	22	24	1	23	1588.4974	1588.4970	0.0004	1.0
25	2	23	25	1	24	1588.5440	1588.5444	-0.0004	0.1
22	2	20	23	3	21	1571.5066	1571.5069	-0.0003	0.1
23	2	21	24	3	22	1571.3074	1571.3066	0.0008	0.1
25	2	23	26	3	24	1570.9413	1570.9410	0.0003	0.1
3	3	0	4	4	0	1573.5322	1573.5321	0.0001	1.0
4	3	0	5	4	0	1573.2345	1573.2350	-0.0005	1.0
4	3	2	3	2	1	1593.0780	1593.0775	0.0005	1.0
5	3	0	6	4	0	1572.9378	1572.9380	-0.0002	1.0
6	3	0	7	4	0	1572.6413	1572.6411	0.0002	1.0
8	3	0	9	4	0	1572.0473	1572.0474	-0.0001	1.0
10	3	0	11	4	0	1571.4547	1571.4543	0.0004	1.0
12	3	10	12	2	11	1591.9174	1591.9176	-0.0002	1.0
13	3	11	13	2	12	1591.9271	1591.9275	-0.0004	1.0
13	3	11	14	4	10	1570.5646	1570.5648	-0.0002	1.0
14	3	12	14	2	13	1591.9390	1591.9398	-0.0008	1.0
14	3	12	15	4	11	1570.2690	1570.2687	0.0003	1.0
15	3	13	16	4	12	1569.9723	1569.9727	-0.0004	1.0
16	3	14	17	4	13	1569.6765	1569.6767	-0.0002	1.0
5	3	0	4	2	0	1593.3741	1593.3746	-0.0005	1.0
6	3	0	5	2	0	1593.6731	1593.6712	0.0019	0.1
7	3	0	8	4	0	1572.3444	1572.3442	0.0002	1.0
9	3	0	10	4	0	1571.7508	1571.7508	0.0001	1.0
11	3	0	12	4	0	1571.1573	1571.1581	-0.0008	1.0
13	3	10	14	4	11	1570.5682	1570.5685	-0.0003	1.0
14	3	11	15	4	12	1570.2738	1570.2745	-0.0007	1.0
15	3	12	16	4	13	1569.9812	1569.9813	-0.0001	1.0
16	3	13	17	4	14	1569.6891	1569.6894	-0.0003	1.0
4	4	0	5	5	0	1570.3134	1570.3138	-0.0004	1.0
4	4	0	3	3	0	1595.8764	1595.8772	-0.0008	1.0
5	4	0	6	5	0	1570.0168	1570.0168	0.0000	1.0
6	4	0	7	5	0	1569.7197	1569.7199	-0.0002	1.0
7	4	0	8	5	0	1569.4228	1569.4229	-0.0001	1.0
7	4	0	6	3	0	1596.7684	1596.7682	0.0003	1.0
8	4	0	9	5	0	1569.1264	1569.1261	0.0003	1.0
9	4	0	10	5	0	1568.8293	1568.8292	0.0001	1.0
10	4	0	11	5	0	1568.5329	1568.5325	0.0004	1.0
11	4	0	12	5	0	1568.2362	1568.2358	0.0004	1.0
11	4	0	10	3	0	1597.9554	1597.9548	0.0006	1.0
12	4	0	13	5	0	1567.9401	1567.9393	0.0008	1.0
13	4	0	14	5	0	1567.6436	1567.6429	0.0007	1.0
14	4	10	13	3	11	1598.8444	1598.8440	0.0004	1.0
14	4	0	15	5	0	1567.3473	1567.3467	0.0006	1.0

14	4	11	13	3	10	1598.8395	1598.8403	-0.0008	1.0
15	4	11	14	3	12	1599.1406	1599.1400	0.0006	1.0
15	4	12	14	3	11	1599.1359	1599.1342	0.0017	1.0
15	4	0	16	5	0	1567.0514	1567.0507	0.0007	1.0
16	4	0	17	5	0	1566.7545	1566.7549	-0.0004	1.0
17	4	0	18	5	0	1566.4593	1566.4595	-0.0002	1.0
18	4	0	19	5	0	1566.1650	1566.1643	0.0007	1.0
5	5	0	6	6	0	1567.0787	1567.0787	0.0000	1.0
5	5	0	4	4	0	1598.9539	1598.9545	-0.0006	1.0
6	5	0	7	6	0	1566.7813	1566.7818	-0.0005	1.0
6	5	0	5	4	0	1599.2510	1599.2516	-0.0006	1.0
7	5	0	6	4	0	1599.5491	1599.5488	0.0003	1.0
7	5	0	8	6	0	1566.4844	1566.4850	-0.0006	1.0
7	5	0	6	4	0	1599.5490	1599.5488	0.0002	1.0
8	5	0	9	6	0	1566.1878	1566.1882	-0.0004	1.0
10	5	0	11	6	0	1565.5941	1565.5947	-0.0006	1.0
10	5	0	9	4	0	1600.4400	1600.4401	-0.0001	1.0
11	5	0	10	4	0	1600.7367	1600.7371	-0.0004	1.0
11	5	0	12	6	0	1565.2982	1565.2980	0.0002	1.0
12	5	0	13	6	0	1565.0012	1565.0014	-0.0002	1.0
12	5	0	11	4	0	1601.0341	1601.0341	0.0000	1.0
13	5	0	14	6	0	1564.7046	1564.7049	-0.0003	1.0
13	5	0	12	4	0	1601.3304	1601.3309	-0.0005	1.0
14	5	0	15	6	0	1564.4083	1564.4085	-0.0002	1.0
15	5	0	14	4	0	1601.9247	1601.9241	0.0006	1.0
16	5	0	15	4	0	1602.2198	1602.2205	-0.0007	1.0
16	5	0	17	6	0	1563.8157	1563.8160	-0.0003	1.0
17	5	0	16	4	0	1602.5164	1602.5166	-0.0002	1.0
17	5	0	18	6	0	1563.5200	1563.5200	0.0000	1.0
18	5	0	19	6	0	1563.2244	1563.2241	0.0003	1.0
19	5	0	18	4	0	1603.1078	1603.1078	0.0000	1.0
20	5	0	19	4	0	1603.4031	1603.4030	0.0001	1.0
20	5	0	21	6	0	1562.6332	1562.6330	0.0002	1.0
21	5	0	22	6	0	1562.3382	1562.3377	0.0005	1.0
22	5	0	23	6	0	1562.0431	1562.0427	0.0004	1.0
23	5	0	24	6	0	1561.7479	1561.7480	-0.0001	1.0
6	6	0	7	7	0	1563.8267	1563.8266	0.0002	1.0
6	6	0	5	5	0	1602.0122	1602.0119	0.0003	1.0
7	6	0	8	7	0	1563.5303	1563.5299	0.0004	1.0
7	6	0	6	5	0	1602.3100	1602.3093	0.0007	1.0
8	6	0	9	7	0	1563.2334	1563.2333	0.0001	1.0
8	6	0	7	5	0	1602.6074	1602.6067	0.0007	1.0
10	6	0	11	7	0	1562.6404	1562.6403	0.0001	1.0
10	6	0	9	5	0	1603.2016	1603.2017	-0.0001	1.0
11	6	0	12	7	0	1562.3434	1562.3439	-0.0005	1.0
11	6	0	10	5	0	1603.4991	1603.4993	-0.0002	1.0

12	6	0	13	7	0	1562.0479	1562.0476	0.0003	1.0
13	6	0	14	7	0	1561.7512	1561.7513	-0.0001	1.0
15	6	0	14	5	0	1604.6890	1604.6893	-0.0003	1.0
16	6	0	15	5	0	1604.9865	1604.9867	-0.0002	1.0
16	6	0	17	7	0	1560.8634	1560.8633	0.0001	1.0
20	6	0	19	5	0	1606.1753	1606.1755	-0.0002	1.0
7	7	0	6	6	0	1605.0494	1605.0484	0.0010	1.0
7	7	0	8	8	0	1560.5575	1560.5569	0.0007	1.0
8	7	0	7	6	0	1605.3467	1605.3461	0.0006	1.0
9	7	0	8	6	0	1605.6443	1605.6439	0.0004	1.0
10	7	0	11	8	0	1559.6681	1559.6680	0.0001	1.0
11	7	0	10	6	0	1606.2397	1606.2397	0.0000	1.0
11	7	0	12	8	0	1559.3721	1559.3719	0.0002	1.0
12	7	0	13	8	0	1559.0761	1559.0759	0.0002	1.0
12	7	0	11	6	0	1606.5381	1606.5377	0.0004	1.0
13	7	0	12	6	0	1606.8356	1606.8358	-0.0002	1.0
13	7	0	14	8	0	1558.7791	1558.7800	-0.0009	1.0
15	7	0	16	8	0	1558.1879	1558.1885	-0.0006	1.0
15	7	0	14	6	0	1607.4314	1607.4320	-0.0006	1.0
16	7	0	15	6	0	1607.7290	1607.7301	-0.0011	1.0
16	7	0	17	8	0	1557.8923	1557.8929	-0.0006	1.0
8	8	0	9	9	0	1557.2687	1557.2689	-0.0002	1.0
9	8	0	8	7	0	1608.3609	1608.3612	-0.0003	1.0
10	8	0	11	9	0	1556.6772	1556.6778	-0.0006	1.0
10	8	0	9	7	0	1608.6597	1608.6598	-0.0001	1.0
11	8	0	12	9	0	1556.3821	1556.3824	-0.0003	1.0
11	8	0	10	7	0	1608.9584	1608.9586	-0.0002	1.0
12	8	0	13	9	0	1556.0874	1556.0873	0.0002	1.0
13	8	0	14	9	0	1555.7926	1555.7922	0.0004	1.0
14	8	0	15	9	0	1555.4978	1555.4974	0.0004	1.0
15	8	0	16	9	0	1555.2029	1555.2027	0.0002	1.0
16	8	0	17	9	0	1554.9082	1554.9082	0.0000	1.0
17	8	0	18	9	0	1554.6136	1554.6139	-0.0003	1.0
18	8	0	19	9	0	1554.3198	1554.3197	0.0001	1.0
19	8	0	20	9	0	1554.0261	1554.0258	0.0003	1.0
20	8	0	21	9	0	1553.7326	1553.7320	0.0006	1.0
