

Date: 15/12/2016

Total number of shares purchased:	160,098
Average price paid per share:	1,489.9 pence
Highest price paid per share:	1,500 pence
Lowest price paid per share:	1,483 pence

Total number of shares purchased according to trading venues:

Venue	#of shares	Average price per share
LSE	160,098	1,489.9 pence

Individual trade details:

<u>Price (pence)</u>	<u>Date</u>	<u>Time</u>	<u>Trading venue</u>	<u>Quantity</u>
1,488	15/12/2016	08:41:20	LSE	441
1,488	15/12/2016	08:41:38	LSE	356
1,488	15/12/2016	08:41:38	LSE	144
1,488	15/12/2016	08:41:39	LSE	265
1,488	15/12/2016	08:42:23	LSE	459
1,487	15/12/2016	08:42:47	LSE	406
1,487	15/12/2016	08:42:48	LSE	500
1,487	15/12/2016	08:42:48	LSE	25
1,486	15/12/2016	08:43:03	LSE	28
1,486	15/12/2016	08:43:03	LSE	176
1,486	15/12/2016	08:43:03	LSE	242
1,485	15/12/2016	08:43:32	LSE	383
1,484	15/12/2016	08:44:14	LSE	500
1,484	15/12/2016	08:44:15	LSE	190
1,485	15/12/2016	08:45:09	LSE	255
1,485	15/12/2016	08:45:11	LSE	571
1,485	15/12/2016	08:45:11	LSE	500
1,485	15/12/2016	08:45:24	LSE	500
1,485	15/12/2016	08:45:24	LSE	500
1,485	15/12/2016	08:45:24	LSE	180
1,485	15/12/2016	08:45:24	LSE	192
1,485	15/12/2016	08:45:57	LSE	500
1,485	15/12/2016	08:46:12	LSE	500
1,485	15/12/2016	08:46:17	LSE	425
1,484	15/12/2016	08:46:20	LSE	71
1,484	15/12/2016	08:46:25	LSE	105
1,484	15/12/2016	08:46:34	LSE	150
1,484	15/12/2016	08:46:34	LSE	263
1,483	15/12/2016	08:46:34	LSE	347
1,484	15/12/2016	08:47:25	LSE	500
1,484	15/12/2016	08:47:27	LSE	411
1,485	15/12/2016	08:47:36	LSE	449
1,484	15/12/2016	08:47:56	LSE	247
1,484	15/12/2016	08:47:56	LSE	179

1,484	15/12/2016	08:48:46	LSE	315
1,484	15/12/2016	08:48:48	LSE	225
1,483	15/12/2016	08:49:05	LSE	379
1,484	15/12/2016	08:49:15	LSE	500
1,484	15/12/2016	08:49:15	LSE	61
1,484	15/12/2016	08:49:26	LSE	202
1,483	15/12/2016	08:49:54	LSE	500
1,483	15/12/2016	08:50:04	LSE	490
1,484	15/12/2016	08:51:07	LSE	419
1,484	15/12/2016	08:51:09	LSE	408
1,484	15/12/2016	08:51:09	LSE	500
1,484	15/12/2016	08:52:09	LSE	433
1,484	15/12/2016	08:52:09	LSE	500
1,484	15/12/2016	08:52:09	LSE	337
1,484	15/12/2016	08:52:09	LSE	179
1,484	15/12/2016	08:52:09	LSE	171
1,483	15/12/2016	08:52:09	LSE	415
1,486	15/12/2016	08:54:07	LSE	400
1,486	15/12/2016	08:54:07	LSE	500
1,486	15/12/2016	08:54:07	LSE	500
1,486	15/12/2016	08:54:07	LSE	282
1,486	15/12/2016	08:54:07	LSE	218
1,486	15/12/2016	08:54:07	LSE	177
1,486	15/12/2016	08:54:07	LSE	216
1,486	15/12/2016	08:54:16	LSE	315
1,485	15/12/2016	08:54:31	LSE	137
1,485	15/12/2016	08:54:31	LSE	200
1,485	15/12/2016	08:54:31	LSE	83
1,485	15/12/2016	08:54:31	LSE	467
1,485	15/12/2016	08:54:31	LSE	332
1,485	15/12/2016	08:54:31	LSE	188
1,484	15/12/2016	08:54:35	LSE	424
1,484	15/12/2016	08:54:56	LSE	372
1,484	15/12/2016	08:54:56	LSE	260
1,484	15/12/2016	08:54:56	LSE	500
1,484	15/12/2016	08:54:57	LSE	290
1,484	15/12/2016	08:54:57	LSE	438
1,484	15/12/2016	08:55:09	LSE	500
1,484	15/12/2016	08:55:09	LSE	217
1,484	15/12/2016	08:55:23	LSE	189
1,485	15/12/2016	08:55:26	LSE	550
1,485	15/12/2016	08:55:35	LSE	942
1,485	15/12/2016	08:55:35	LSE	575
1,486	15/12/2016	08:56:09	LSE	460
1,486	15/12/2016	08:56:09	LSE	28
1,486	15/12/2016	08:56:57	LSE	100
1,486	15/12/2016	08:56:57	LSE	500
1,486	15/12/2016	08:56:57	LSE	536
1,486	15/12/2016	08:57:33	LSE	414
1,486	15/12/2016	08:57:42	LSE	645
1,486	15/12/2016	08:57:42	LSE	49
1,485	15/12/2016	08:58:05	LSE	166
1,485	15/12/2016	08:59:26	LSE	310
1,484	15/12/2016	08:59:33	LSE	126

1,484	15/12/2016	08:59:33	LSE	215
1,484	15/12/2016	08:59:33	LSE	58
1,484	15/12/2016	08:59:57	LSE	108
1,483	15/12/2016	09:00:31	LSE	70
1,483	15/12/2016	09:00:31	LSE	420
1,483	15/12/2016	09:00:31	LSE	224
1,483	15/12/2016	09:00:31	LSE	63
1,483	15/12/2016	09:00:31	LSE	138
1,484	15/12/2016	09:01:48	LSE	286
1,484	15/12/2016	09:01:48	LSE	100
1,484	15/12/2016	09:01:48	LSE	117
1,484	15/12/2016	09:02:47	LSE	304
1,484	15/12/2016	09:02:47	LSE	500
1,484	15/12/2016	09:03:08	LSE	260
1,483	15/12/2016	09:03:24	LSE	328
1,484	15/12/2016	09:05:17	LSE	76
1,484	15/12/2016	09:05:17	LSE	414
1,484	15/12/2016	09:05:32	LSE	385
1,484	15/12/2016	09:05:35	LSE	297
1,483	15/12/2016	09:06:00	LSE	161
1,483	15/12/2016	09:06:37	LSE	200
1,484	15/12/2016	09:06:37	LSE	415
1,483	15/12/2016	09:06:37	LSE	192
1,485	15/12/2016	09:08:43	LSE	500
1,485	15/12/2016	09:08:44	LSE	524
1,485	15/12/2016	09:09:35	LSE	500
1,485	15/12/2016	09:09:37	LSE	500
1,485	15/12/2016	09:09:37	LSE	282
1,485	15/12/2016	09:09:38	LSE	336
1,485	15/12/2016	09:09:50	LSE	570
1,485	15/12/2016	09:11:28	LSE	467
1,486	15/12/2016	09:12:57	LSE	500
1,486	15/12/2016	09:12:57	LSE	600
1,485	15/12/2016	09:13:12	LSE	323
1,485	15/12/2016	09:13:14	LSE	408
1,486	15/12/2016	09:14:25	LSE	298
1,486	15/12/2016	09:14:25	LSE	500
1,486	15/12/2016	09:15:30	LSE	382
1,485	15/12/2016	09:15:52	LSE	194
1,486	15/12/2016	09:17:12	LSE	133
1,486	15/12/2016	09:17:12	LSE	330
1,486	15/12/2016	09:17:12	LSE	242
1,486	15/12/2016	09:17:12	LSE	258
1,486	15/12/2016	09:17:12	LSE	26
1,485	15/12/2016	09:17:43	LSE	937
1,485	15/12/2016	09:17:43	LSE	464
1,485	15/12/2016	09:17:56	LSE	732
1,485	15/12/2016	09:18:12	LSE	408
1,485	15/12/2016	09:18:25	LSE	500
1,485	15/12/2016	09:18:25	LSE	600
1,485	15/12/2016	09:18:25	LSE	169
1,485	15/12/2016	09:18:28	LSE	351
1,485	15/12/2016	09:19:48	LSE	500
1,485	15/12/2016	09:19:54	LSE	500

1,485	15/12/2016	09:20:01	LSE	500
1,485	15/12/2016	09:20:01	LSE	612
1,485	15/12/2016	09:20:01	LSE	52
1,485	15/12/2016	09:20:03	LSE	548
1,486	15/12/2016	09:20:41	LSE	295
1,491	15/12/2016	09:21:46	LSE	69
1,491	15/12/2016	09:21:46	LSE	178
1,491	15/12/2016	09:21:46	LSE	86
1,491	15/12/2016	09:21:46	LSE	500
1,491	15/12/2016	09:21:46	LSE	414
1,491	15/12/2016	09:21:46	LSE	500
1,491	15/12/2016	09:21:46	LSE	261
1,491	15/12/2016	09:21:46	LSE	405
1,492	15/12/2016	09:21:47	LSE	359
1,492	15/12/2016	09:21:47	LSE	375
1,492	15/12/2016	09:21:47	LSE	125
1,492	15/12/2016	09:21:47	LSE	100
1,492	15/12/2016	09:21:47	LSE	287
1,492	15/12/2016	09:21:48	LSE	500
1,492	15/12/2016	09:21:48	LSE	500
1,494	15/12/2016	09:21:50	LSE	500
1,494	15/12/2016	09:21:50	LSE	500
1,494	15/12/2016	09:21:50	LSE	342
1,494	15/12/2016	09:21:50	LSE	500
1,494	15/12/2016	09:21:50	LSE	14
1,494	15/12/2016	09:21:50	LSE	389
1,494	15/12/2016	09:21:50	LSE	250
1,494	15/12/2016	09:21:50	LSE	22
1,494	15/12/2016	09:21:50	LSE	414
1,494	15/12/2016	09:21:51	LSE	386
1,495	15/12/2016	09:21:52	LSE	183
1,495	15/12/2016	09:21:52	LSE	276
1,495	15/12/2016	09:21:52	LSE	182
1,495	15/12/2016	09:21:52	LSE	243
1,496	15/12/2016	09:21:56	LSE	600
1,496	15/12/2016	09:21:56	LSE	500
1,496	15/12/2016	09:21:56	LSE	500
1,496	15/12/2016	09:21:56	LSE	500
1,496	15/12/2016	09:21:56	LSE	500
1,496	15/12/2016	09:21:56	LSE	500
1,496	15/12/2016	09:21:56	LSE	100
1,497	15/12/2016	09:22:00	LSE	364
1,497	15/12/2016	09:22:00	LSE	560
1,498	15/12/2016	09:22:04	LSE	573
1,498	15/12/2016	09:22:04	LSE	490
1,498	15/12/2016	09:22:07	LSE	500
1,498	15/12/2016	09:22:07	LSE	500
1,498	15/12/2016	09:22:07	LSE	550
1,500	15/12/2016	09:22:39	LSE	180
1,500	15/12/2016	09:22:39	LSE	500
1,500	15/12/2016	09:22:39	LSE	500
1,500	15/12/2016	09:22:39	LSE	500
1,500	15/12/2016	09:22:40	LSE	500



1,490	15/12/2016	09:25:15	LSE	386
1,490	15/12/2016	09:25:15	LSE	476
1,490	15/12/2016	09:25:15	LSE	95
1,490	15/12/2016	09:25:15	LSE	208
1,490	15/12/2016	09:25:44	LSE	408
1,490	15/12/2016	09:25:47	LSE	500
1,488	15/12/2016	09:26:01	LSE	443
1,488	15/12/2016	09:26:01	LSE	467
1,488	15/12/2016	09:26:01	LSE	125
1,488	15/12/2016	09:26:01	LSE	352
1,489	15/12/2016	09:26:35	LSE	67
1,489	15/12/2016	09:26:35	LSE	439
1,489	15/12/2016	09:26:35	LSE	139
1,490	15/12/2016	09:26:49	LSE	339
1,489	15/12/2016	09:27:05	LSE	76
1,489	15/12/2016	09:27:07	LSE	187
1,488	15/12/2016	09:27:32	LSE	322
1,488	15/12/2016	09:27:32	LSE	500
1,488	15/12/2016	09:27:35	LSE	134
1,488	15/12/2016	09:27:35	LSE	19
1,486	15/12/2016	09:28:05	LSE	129
1,486	15/12/2016	09:28:05	LSE	258
1,486	15/12/2016	09:28:05	LSE	24
1,487	15/12/2016	09:28:32	LSE	530
1,487	15/12/2016	09:28:33	LSE	500
1,487	15/12/2016	09:28:33	LSE	530
1,487	15/12/2016	09:28:33	LSE	290
1,490	15/12/2016	09:30:02	LSE	184
1,490	15/12/2016	09:30:25	LSE	347
1,490	15/12/2016	09:30:25	LSE	145
1,489	15/12/2016	09:30:45	LSE	115
1,489	15/12/2016	09:30:45	LSE	500
1,489	15/12/2016	09:30:45	LSE	284
1,489	15/12/2016	09:30:45	LSE	116
1,489	15/12/2016	09:30:49	LSE	500
1,491	15/12/2016	09:32:01	LSE	500
1,491	15/12/2016	09:32:01	LSE	440
1,491	15/12/2016	09:32:01	LSE	189
1,491	15/12/2016	09:32:01	LSE	196
1,490	15/12/2016	09:32:18	LSE	106
1,490	15/12/2016	09:32:18	LSE	205
1,488	15/12/2016	09:32:44	LSE	139
1,488	15/12/2016	09:32:44	LSE	108
1,488	15/12/2016	09:32:44	LSE	500
1,488	15/12/2016	09:32:45	LSE	500
1,488	15/12/2016	09:32:45	LSE	500
1,488	15/12/2016	09:32:45	LSE	110
1,487	15/12/2016	09:32:47	LSE	268
1,487	15/12/2016	09:32:58	LSE	144
1,486	15/12/2016	09:33:03	LSE	287
1,486	15/12/2016	09:33:03	LSE	229
1,486	15/12/2016	09:33:03	LSE	108
1,487	15/12/2016	09:33:04	LSE	262
1,487	15/12/2016	09:33:05	LSE	108

1,487	15/12/2016	09:33:05	LSE	145
1,486	15/12/2016	09:33:09	LSE	241
1,485	15/12/2016	09:33:17	LSE	74
1,485	15/12/2016	09:33:17	LSE	302
1,485	15/12/2016	09:33:17	LSE	108
1,485	15/12/2016	09:33:22	LSE	108
1,485	15/12/2016	09:33:23	LSE	349
1,487	15/12/2016	09:33:56	LSE	612
1,487	15/12/2016	09:33:56	LSE	500
1,487	15/12/2016	09:34:06	LSE	108
1,487	15/12/2016	09:34:06	LSE	500
1,487	15/12/2016	09:34:06	LSE	108
1,487	15/12/2016	09:34:10	LSE	108
1,487	15/12/2016	09:34:10	LSE	450
1,486	15/12/2016	09:34:18	LSE	494
1,486	15/12/2016	09:34:18	LSE	465
1,485	15/12/2016	09:34:35	LSE	500
1,485	15/12/2016	09:34:36	LSE	177
1,486	15/12/2016	09:34:58	LSE	500
1,486	15/12/2016	09:34:58	LSE	355
1,486	15/12/2016	09:35:30	LSE	91
1,486	15/12/2016	09:35:30	LSE	500
1,486	15/12/2016	09:35:30	LSE	50
1,486	15/12/2016	09:35:32	LSE	500
1,485	15/12/2016	09:35:54	LSE	499
1,487	15/12/2016	09:37:36	LSE	130
1,487	15/12/2016	09:37:36	LSE	363
1,487	15/12/2016	09:37:36	LSE	500
1,487	15/12/2016	09:37:38	LSE	500
1,487	15/12/2016	09:38:28	LSE	592
1,488	15/12/2016	09:39:49	LSE	584
1,488	15/12/2016	09:40:21	LSE	200
1,488	15/12/2016	09:40:21	LSE	356
1,488	15/12/2016	09:40:21	LSE	500
1,488	15/12/2016	09:40:21	LSE	50
1,488	15/12/2016	09:40:21	LSE	1,505
1,488	15/12/2016	09:40:23	LSE	500
1,488	15/12/2016	09:40:23	LSE	758
1,490	15/12/2016	09:41:03	LSE	571
1,490	15/12/2016	09:41:03	LSE	500
1,490	15/12/2016	09:41:04	LSE	327
1,490	15/12/2016	09:41:04	LSE	500
1,490	15/12/2016	09:41:04	LSE	500
1,490	15/12/2016	09:41:05	LSE	408
1,490	15/12/2016	09:41:05	LSE	20
1,489	15/12/2016	09:41:32	LSE	535
1,489	15/12/2016	09:42:22	LSE	458
1,488	15/12/2016	09:43:06	LSE	517
1,488	15/12/2016	09:43:06	LSE	500
1,488	15/12/2016	09:43:08	LSE	302
1,488	15/12/2016	09:43:21	LSE	203
1,488	15/12/2016	09:43:22	LSE	305
1,489	15/12/2016	09:43:51	LSE	308
1,489	15/12/2016	09:45:01	LSE	159

1,488	15/12/2016	09:46:37	LSE	54
1,488	15/12/2016	09:46:43	LSE	653
1,488	15/12/2016	09:47:27	LSE	199
1,488	15/12/2016	09:47:27	LSE	219
1,488	15/12/2016	09:47:29	LSE	161
1,488	15/12/2016	09:48:07	LSE	564
1,488	15/12/2016	09:48:07	LSE	9
1,488	15/12/2016	09:48:07	LSE	64
1,488	15/12/2016	09:48:10	LSE	374
1,489	15/12/2016	09:48:26	LSE	282
1,488	15/12/2016	09:49:01	LSE	16
1,489	15/12/2016	09:49:10	LSE	396
1,490	15/12/2016	09:49:25	LSE	191
1,490	15/12/2016	09:49:25	LSE	217
1,491	15/12/2016	09:49:44	LSE	200
1,491	15/12/2016	09:49:44	LSE	175
1,491	15/12/2016	09:49:44	LSE	375
1,491	15/12/2016	09:49:44	LSE	172
1,492	15/12/2016	09:50:13	LSE	500
1,493	15/12/2016	09:50:15	LSE	50
1,493	15/12/2016	09:50:15	LSE	956
1,493	15/12/2016	09:50:15	LSE	447
1,495	15/12/2016	09:50:35	LSE	500
1,496	15/12/2016	09:50:38	LSE	249
1,496	15/12/2016	09:50:38	LSE	500
1,496	15/12/2016	09:50:38	LSE	500
1,496	15/12/2016	09:50:44	LSE	500
1,496	15/12/2016	09:50:48	LSE	500
1,496	15/12/2016	09:50:49	LSE	415
1,496	15/12/2016	09:51:00	LSE	248
1,496	15/12/2016	09:51:30	LSE	384
1,496	15/12/2016	09:51:30	LSE	600
1,496	15/12/2016	09:51:30	LSE	325
1,496	15/12/2016	09:51:30	LSE	175
1,496	15/12/2016	09:51:30	LSE	500
1,496	15/12/2016	09:51:30	LSE	295
1,496	15/12/2016	09:51:30	LSE	224
1,493	15/12/2016	09:51:40	LSE	377
1,493	15/12/2016	09:51:40	LSE	515
1,493	15/12/2016	09:51:47	LSE	589
1,494	15/12/2016	09:53:03	LSE	938
1,493	15/12/2016	09:53:07	LSE	8
1,493	15/12/2016	09:53:08	LSE	199
1,494	15/12/2016	09:54:21	LSE	367
1,493	15/12/2016	09:54:32	LSE	408
1,492	15/12/2016	09:55:12	LSE	200
1,492	15/12/2016	09:55:12	LSE	295
1,493	15/12/2016	09:55:46	LSE	500
1,493	15/12/2016	09:55:46	LSE	220
1,494	15/12/2016	09:56:54	LSE	422
1,494	15/12/2016	09:57:45	LSE	449
1,494	15/12/2016	09:59:12	LSE	100
1,495	15/12/2016	09:59:27	LSE	498
1,495	15/12/2016	09:59:27	LSE	158



1,496	15/12/2016	09:59:50	LSE	443
1,496	15/12/2016	09:59:50	LSE	132
1,496	15/12/2016	09:59:50	LSE	612
1,496	15/12/2016	09:59:50	LSE	325
1,497	15/12/2016	10:00:01	LSE	269
1,497	15/12/2016	10:00:01	LSE	165
1,496	15/12/2016	10:00:13	LSE	545
1,496	15/12/2016	10:01:56	LSE	198
1,496	15/12/2016	10:01:56	LSE	600
1,496	15/12/2016	10:01:56	LSE	126
1,496	15/12/2016	10:01:56	LSE	250
1,496	15/12/2016	10:01:56	LSE	250
1,496	15/12/2016	10:01:56	LSE	137
1,496	15/12/2016	10:01:56	LSE	205
1,496	15/12/2016	10:02:39	LSE	50
1,496	15/12/2016	10:02:50	LSE	332
1,496	15/12/2016	10:04:28	LSE	461
1,496	15/12/2016	10:05:27	LSE	173
1,496	15/12/2016	10:05:27	LSE	403
1,498	15/12/2016	10:06:55	LSE	534
1,498	15/12/2016	10:06:59	LSE	250
1,498	15/12/2016	10:06:59	LSE	500
1,498	15/12/2016	10:06:59	LSE	600
1,498	15/12/2016	10:07:00	LSE	286
1,498	15/12/2016	10:07:02	LSE	1,250
1,497	15/12/2016	10:07:24	LSE	200
1,499	15/12/2016	10:08:29	LSE	45
1,499	15/12/2016	10:08:29	LSE	250
1,499	15/12/2016	10:08:29	LSE	18
1,499	15/12/2016	10:09:05	LSE	161
1,499	15/12/2016	10:09:05	LSE	450
1,499	15/12/2016	10:10:15	LSE	464
1,499	15/12/2016	10:10:15	LSE	219
1,499	15/12/2016	10:10:42	LSE	305
1,500	15/12/2016	10:12:21	LSE	960
1,500	15/12/2016	10:12:21	LSE	184
1,500	15/12/2016	10:12:21	LSE	87
1,499	15/12/2016	10:13:42	LSE	201
1,500	15/12/2016	10:15:08	LSE	409
1,500	15/12/2016	10:15:38	LSE	566
1,500	15/12/2016	10:15:38	LSE	485
1,500	15/12/2016	10:23:21	LSE	263
1,500	15/12/2016	10:23:58	LSE	521
1,500	15/12/2016	10:23:59	LSE	388