

Aluminium Conductor Alloy Reinforced (ACAR)

ACAR (ASTM B542)

kcmil	Area (mm ²)	Wire Diameter (mm)	No. of Wires			Overall Diameter (mm)	Weight (kg/km)			Rated Strength (kN)	DC Resistance at 20 °C (Ω/km)
			1350	6201	Total		1350	6201	Total		
30.6	15.50	1.68	4	3	7	5.04	24.40	18.20	42.60	3.66	1.9741
41.7	21.10	1.96	4	3	7	5.88	33.30	24.90	58.20	4.99	1.4475
48.7	24.70	2.12	4	3	7	6.35	38.90	29.00	67.90	5.75	1.2409
66.4	33.60	2.47	4	3	7	7.42	53.10	39.60	92.70	7.76	0.9094
77.5	39.20	2.67	4	3	7	8.02	61.90	46.20	108.10	8.94	0.7796
105.6	53.50	3.12	4	3	7	9.36	84.30	62.90	147.20	11.89	0.5722
123.3	62.50	3.37	4	3	7	10.11	98.50	73.50	172.00	13.52	0.4898
133.1	67.50	3.50	4	3	7	10.51	106.40	79.30	185.70	14.60	0.4536
155.4	78.80	3.79	4	3	7	11.36	124.20	92.60	216.80	16.83	0.3885
167.8	85.00	3.93	4	3	7	11.80	134.00	100.00	234.00	18.16	0.3600
195.7	99.20	4.25	4	3	7	12.74	156.30	116.60	272.90	21.18	0.3086
211.6	107.30	4.42	4	3	7	13.25	169.10	126.10	295.20	22.91	0.2853
246.9	125.10	4.77	4	3	7	14.31	197.20	147.10	344.30	26.72	0.2446
250.0	126.60	2.91	12	7	19	14.56	220.60	128.00	348.60	27.47	0.2395
250.0	126.60	2.91	15	4	19	14.56	275.80	73.10	348.90	24.29	0.2339
300.0	152.10	3.19	12	7	19	15.96	265.10	153.80	418.90	32.55	0.1993
300.0	152.10	3.19	15	4	19	15.96	331.40	87.90	419.30	28.63	0.1947
350.0	177.30	3.45	12	7	19	17.24	309.00	179.20	488.20	37.04	0.1710
350.0	177.30	3.45	15	4	19	17.24	386.20	102.40	488.60	32.86	0.1671
400.0	202.60	3.69	12	7	19	18.42	353.10	204.90	558.00	42.33	0.1496
400.0	202.60	3.69	15	4	19	18.42	441.40	117.10	558.50	37.55	0.1462
450.0	228.00	3.91	12	7	19	19.54	397.30	230.50	627.80	46.95	0.1330
450.0	228.00	3.91	15	4	19	19.54	496.70	131.70	628.40	41.41	0.1299
500.0	253.10	2.95	18	19	37	20.66	339.70	356.60	696.30	58.57	0.1225
500.0	253.10	2.95	24	13	37	20.66	452.90	244.00	696.90	52.64	0.1195
500.0	253.10	2.95	30	7	37	20.66	566.10	131.40	697.50	47.80	0.1167
500.0	253.10	2.95	33	4	37	20.66	622.80	75.10	697.90	44.18	0.1153
500.0	253.30	4.12	12	7	19	20.60	441.40	256.10	697.50	52.15	0.1197
500.0	253.30	4.12	15	4	19	20.60	551.70	146.30	698.00	46.01	0.1169
503.6	255.20	4.14	15	4	19	20.67	555.80	147.40	703.20	46.34	0.1161
550.0	278.50	3.10	18	19	37	21.67	373.90	392.50	766.40	63.82	0.1113
550.0	278.60	3.10	24	13	37	21.67	498.50	268.50	767.00	57.10	0.1086
550.0	278.60	3.10	30	7	37	21.67	623.10	144.60	767.70	51.57	0.1060
550.0	278.50	3.10	33	4	37	21.67	685.40	82.60	768.00	47.49	0.1048
550.0	278.60	4.32	12	7	19	21.60	485.50	281.70	767.20	57.36	0.1088
550.0	278.60	4.32	15	4	19	21.60	606.90	161.00	767.90	50.60	0.1063
587.2	297.50	4.47	15	4	19	22.32	648.00	171.80	819.80	54.03	0.0996

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			1350	6201	Total		1350	6201	Total		
600.00	303.70	3.23	18	19	37	22.63	407.70	428.00	835.70	69.59	0.1021
600.00	303.70	3.23	24	13	37	22.63	543.60	292.80	836.40	62.26	0.0996
600.00	303.70	3.23	30	7	37	22.63	679.50	157.70	837.20	56.23	0.0972
600.00	303.70	3.23	33	4	37	22.63	747.40	90.10	837.50	51.79	0.0961
600.00	303.90	4.51	12	7	19	22.56	529.60	307.20	836.80	62.57	0.0998
600.00	303.90	4.51	15	4	19	22.56	662.00	175.60	837.60	55.20	0.0975
649.50	329.00	3.37	18	19	37	23.56	441.70	463.60	905.30	73.15	0.0942
649.50	329.00	3.37	24	13	37	23.56	588.90	317.20	906.10	65.92	0.0919
649.50	329.00	3.37	30	7	37	23.56	736.10	170.80	906.90	60.06	0.0897
649.50	329.00	3.37	33	4	37	23.56	809.70	97.60	907.30	55.62	0.0887
650.00	329.20	3.37	18	19	37	23.56	441.90	463.90	905.80	73.19	0.0942
650.00	329.20	3.37	24	13	37	23.56	589.20	317.40	906.60	65.96	0.0919
650.00	329.20	3.37	30	7	37	23.56	736.60	170.90	907.50	60.10	0.0897
650.00	329.20	3.37	33	4	37	23.56	810.20	97.70	907.90	55.65	0.0886
653.10	330.90	4.71	12	7	19	23.54	576.60	334.50	911.10	68.13	0.0916
653.10	330.90	4.71	15	4	19	23.54	720.80	191.10	911.90	60.10	0.0895
700.00	354.50	3.49	24	13	37	24.45	634.50	341.80	976.30	71.03	0.0853
700.00	354.60	3.49	18	19	37	24.45	475.90	499.60	975.50	78.82	0.0874
700.00	354.60	3.49	30	7	37	24.45	793.20	184.10	977.30	64.72	0.0833
700.00	354.60	3.49	33	4	37	24.45	872.50	105.20	977.70	59.93	0.0823
739.80	374.90	3.59	18	19	37	25.14	503.30	528.30	1031.60	83.35	0.0827
739.80	374.90	3.59	33	4	37	25.14	922.70	111.20	1033.90	63.38	0.0778
739.80	375.00	3.59	24	13	37	25.14	671.00	361.50	1032.50	75.12	0.0807
739.80	375.00	3.59	30	7	37	25.14	838.80	194.60	1033.40	68.44	0.0788
750.00	380.20	3.62	18	19	37	25.32	510.30	535.70	1046.00	84.52	0.0815
750.00	380.20	3.62	24	13	37	25.32	680.40	366.50	1046.90	76.16	0.0796
750.00	380.20	3.62	30	7	37	25.32	850.50	197.40	1047.90	69.40	0.0777
750.00	380.20	3.62	33	4	37	25.32	935.60	112.80	1048.40	64.26	0.0768
800.00	405.20	3.73	18	19	37	26.14	543.80	570.90	1114.70	90.07	0.0765
800.00	405.20	3.73	24	13	37	26.14	725.10	390.60	1115.70	81.17	0.0747
800.00	405.20	3.73	30	7	37	26.14	906.40	210.30	1116.70	73.96	0.0729
800.00	405.20	3.73	33	4	37	26.14	997.10	120.20	1117.30	68.49	0.0720
850.00	431.00	3.85	18	19	37	26.96	578.50	607.20	1185.70	94.80	0.0719
850.00	431.00	3.85	24	13	37	26.96	771.30	415.50	1186.80	85.04	0.0702
850.00	431.00	3.85	30	7	37	26.96	964.10	223.70	1187.80	77.04	0.0685
850.00	431.00	3.85	33	4	37	26.96	1060.50	127.80	1188.30	71.10	0.0677
853.70	432.50	3.86	18	19	37	27.01	580.60	609.40	1190.00	95.14	0.0717
853.70	432.50	3.86	24	13	37	27.01	774.10	417.00	1191.10	85.35	0.0699
853.70	432.50	3.86	30	7	37	27.01	967.60	224.50	1192.10	77.32	0.0683

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			1350	6201	Total		1350	6201	Total		
853.7	432.50	3.86	33	4	37	27.01	1064.40	128.30	1192.70	71.36	0.0675
900.0	456.20	3.96	18	19	37	27.73	612.30	642.70	1255.00	100.34	0.0680
900.0	456.20	3.96	24	13	37	27.73	816.40	439.70	1256.10	90.01	0.0663
900.0	456.20	3.96	30	7	37	27.73	1020.50	236.80	1257.30	81.55	0.0647
900.0	456.20	3.96	33	4	37	27.73	1122.50	135.30	1257.80	75.25	0.0640
927.2	469.80	4.02	18	19	37	28.15	630.70	662.00	1292.70	103.35	0.0660
927.2	469.80	4.02	24	13	37	28.15	840.90	452.90	1293.80	92.71	0.0644
927.2	469.80	4.02	30	7	37	28.15	1051.10	243.90	1295.00	83.99	0.0628
927.2	469.80	4.02	33	4	37	28.15	1156.20	139.40	1295.60	77.51	0.0621
950.0	481.10	4.07	18	19	37	28.48	645.80	677.90	1323.70	105.84	0.0644
950.0	481.10	4.07	24	13	37	28.48	861.10	463.80	1324.90	94.94	0.0629
950.0	481.10	4.07	30	7	37	28.48	1076.40	249.80	1326.20	86.01	0.0614
950.0	481.10	4.07	33	4	37	28.48	1184.00	142.70	1326.70	79.37	0.0607
1000.0	506.40	3.25	33	28	61	29.26	755.80	637.70	1393.50	106.60	0.0607
1000.0	506.40	3.25	42	19	61	29.26	961.90	432.80	1394.70	99.01	0.0594
1000.0	506.40	3.25	48	13	61	29.26	1099.30	296.10	1395.40	91.67	0.0585
1000.0	506.40	3.25	54	7	61	29.26	1236.80	159.40	1396.20	86.04	0.0577
1000.0	506.80	4.18	18	19	37	29.23	680.20	714.00	1394.20	111.47	0.0612
1000.0	506.80	4.18	24	13	37	29.23	907.00	488.60	1395.60	100.00	0.0597
1000.0	506.80	4.18	30	7	37	29.23	1133.70	263.10	1396.80	90.60	0.0583
1000.0	506.80	4.18	33	4	37	29.23	1247.10	150.30	1397.40	83.61	0.0576
1024.5	519.20	4.23	18	19	37	29.59	696.90	731.60	1428.50	114.22	0.0597
1024.5	519.20	4.23	24	13	37	29.59	929.20	500.60	1429.80	102.45	0.0583
1024.5	519.20	4.23	30	7	37	29.59	1161.60	269.50	1431.10	92.82	0.0569
1024.5	519.20	4.23	33	4	37	29.59	1277.70	154.00	1431.70	85.66	0.0562
1080.6	547.60	4.34	18	19	37	30.39	735.00	771.60	1506.60	120.46	0.0566
1080.6	547.60	4.34	24	13	37	30.39	980.10	527.90	1508.00	108.05	0.0552
1080.6	547.60	4.34	30	7	37	30.39	1225.10	284.30	1509.40	97.90	0.0539
1080.6	547.60	4.34	33	4	37	30.39	1347.60	162.40	1510.00	90.34	0.0533
1100.0	557.40	3.41	33	28	61	30.70	832.00	702.10	1534.10	117.35	0.0551
1100.0	557.40	3.41	42	19	61	30.70	1058.90	476.40	1535.30	109.00	0.0539
1100.0	557.40	3.41	48	13	61	30.70	1210.20	325.90	1536.10	100.92	0.0532
1100.0	557.40	3.41	54	7	61	30.70	1361.50	175.50	1537.00	94.71	0.0524
1100.0	557.20	4.38	18	19	37	30.65	748.00	785.10	1533.10	122.58	0.0556
1100.0	557.20	4.38	24	13	37	30.65	997.30	537.20	1534.50	109.95	0.0543
1100.0	557.20	4.38	30	7	37	30.65	1246.60	289.30	1535.90	99.62	0.0530
1100.0	557.20	4.38	33	4	37	30.65	1371.30	165.30	1536.60	91.93	0.0524
1109.0	561.80	4.40	18	19	37	30.78	754.10	791.60	1545.70	123.59	0.0552
1109.0	561.80	4.40	24	13	37	30.78	1005.50	541.60	1547.10	110.86	0.0538

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			1350	6201	Total		1350	6201	Total		
1109.0	561.80	4.40	30	7	37	30.78	1256.90	291.60	1548.50	100.44	0.0526
1109.0	561.80	4.40	33	4	37	30.78	1382.60	166.70	1549.30	92.69	0.0519
1172.0	594.00	4.52	18	19	37	31.65	797.30	836.90	1634.20	130.66	0.0522
1172.0	594.00	4.52	24	13	37	31.65	1063.00	572.60	1635.60	117.20	0.0509
1172.0	594.00	4.52	30	7	37	31.65	1328.80	308.30	1637.10	106.18	0.0497
1172.0	594.00	4.52	33	4	37	31.65	1461.60	176.20	1637.80	97.99	0.0491
1198.0	606.90	4.57	18	19	37	31.99	814.60	855.10	1669.70	133.50	0.0511
1198.0	606.90	4.57	24	13	37	31.99	1086.20	585.10	1671.30	119.75	0.0498
1198.0	606.90	4.57	30	7	37	31.99	1357.70	315.00	1672.70	108.50	0.0487
1198.0	606.90	4.57	33	4	37	31.99	1493.50	180.00	1673.50	100.12	0.0481
1200.0	615.40	3.58	33	28	61	32.26	918.60	775.10	1693.70	129.56	0.0500
1200.0	615.40	3.58	42	19	61	32.26	1169.10	525.90	1695.00	120.34	0.0489
1200.0	615.40	3.58	48	13	61	32.26	1336.10	359.80	1695.90	111.41	0.0482
1200.0	615.40	3.58	54	7	61	32.26	1503.10	193.80	1696.90	104.57	0.0475
1200.0	608.20	4.58	18	19	37	32.02	816.40	857.00	1673.40	133.80	0.0510
1200.0	608.20	4.58	24	13	37	32.02	1088.50	586.40	1674.90	120.02	0.0497
1200.0	608.20	4.58	30	7	37	32.02	1360.70	315.70	1676.40	108.73	0.0485
1200.0	608.20	4.58	33	4	37	32.02	1496.80	180.40	1677.20	100.34	0.0480
1250.0	633.00	3.64	33	28	61	32.71	944.90	797.30	1742.20	133.27	0.0486
1250.0	633.00	3.64	42	19	61	32.71	1202.60	541.00	1743.60	123.79	0.0475
1250.0	633.00	3.64	48	13	61	32.71	1374.40	370.20	1744.60	114.61	0.0468
1250.0	633.00	3.64	54	7	61	32.71	1546.20	199.30	1745.50	107.56	0.0461
1250.0	633.50	4.67	18	19	37	32.68	850.30	892.60	1742.90	139.35	0.0489
1250.0	633.50	4.67	24	13	37	32.68	1133.70	610.70	1744.40	125.00	0.0477
1250.0	633.50	4.67	30	7	37	32.68	1417.20	328.80	1746.00	113.25	0.0466
1250.0	633.50	4.67	33	4	37	32.68	1558.90	187.90	1746.80	104.51	0.0461
1277.0	647.00	3.68	33	28	61	33.07	965.80	814.90	1780.70	136.22	0.0475
1277.0	647.00	3.68	42	19	61	33.07	1229.20	553.00	1782.20	126.52	0.0465
1277.0	647.00	3.68	48	13	61	33.07	1404.80	378.30	1783.10	117.14	0.0458
1277.0	647.00	3.68	54	7	61	33.07	1580.40	203.70	1784.10	109.94	0.0451
1300.0	658.40	4.76	18	19	37	33.32	883.80	927.70	1811.50	144.83	0.0471
1300.0	658.40	4.76	24	13	37	33.32	1178.40	634.80	1813.20	129.92	0.0459
1300.0	658.40	4.76	30	7	37	33.32	1473.00	341.80	1814.80	117.71	0.0448
1300.0	658.40	4.76	33	4	37	33.32	1620.30	195.30	1815.60	108.62	0.0443
1300.0	658.70	3.71	33	28	61	33.37	983.20	829.60	1812.80	138.68	0.0467
1300.0	658.70	3.71	42	19	61	33.37	1251.40	562.90	1814.30	128.80	0.0456
1300.0	658.70	3.71	48	13	61	33.37	1430.20	385.20	1815.40	119.26	0.0450
1300.0	658.70	3.71	54	7	61	33.37	1608.90	207.40	1816.30	111.93	0.0443
1361.50	690.00	3.80	33	28	61	34.16	1029.90	869.00	1898.90	143.53	0.0446

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			1350	6201	Total		1350	6201	Total		
1361.5	690.00	3.80	42	19	61	34.20	1310.80	589.70	1900.50	132.71	0.0436
1361.5	690.00	3.80	48	13	61	34.20	1498.00	403.50	1901.50	122.45	0.0429
1361.5	690.00	3.80	54	7	61	34.20	1685.30	217.30	1902.60	114.46	0.0423
1400.0	709.40	3.85	33	28	61	34.60	1058.90	893.50	1952.40	147.56	0.0433
1400.0	709.40	3.85	42	19	61	34.60	1347.70	606.30	1954.00	136.44	0.0424
1400.0	709.40	3.85	48	13	61	34.60	1540.20	414.80	1955.00	125.89	0.0418
1400.0	709.40	3.85	54	7	61	34.60	1732.70	223.40	1956.10	117.68	0.0412
1500.0	760.00	3.98	33	28	61	35.90	1134.50	957.20	2091.70	158.10	0.0404
1500.0	760.00	3.98	42	19	61	35.90	1443.90	649.60	2093.50	146.19	0.0396
1500.0	760.10	3.98	48	13	61	35.90	1650.10	444.40	2094.50	134.88	0.0390
1500.0	760.10	3.98	54	7	61	35.90	1856.40	239.30	2095.70	126.08	0.0384
1534.4	777.30	4.03	33	28	61	36.30	1160.30	979.00	2139.30	161.69	0.0395
1534.4	777.30	4.03	42	19	61	36.30	1476.70	664.30	2141.00	149.51	0.0387
1534.4	777.30	4.03	48	13	61	36.30	1687.60	454.50	2142.10	137.94	0.0381
1534.4	777.30	4.03	54	7	61	36.30	1898.60	244.70	2143.30	128.95	0.0376
1600.0	811.30	4.12	33	28	61	37.00	1210.90	1021.70	2232.60	168.75	0.0379
1600.0	811.30	4.12	42	19	61	37.00	1541.20	693.30	2234.50	156.04	0.0371
1600.0	811.30	4.12	48	13	61	37.00	1761.30	474.40	2235.70	143.97	0.0365
1600.0	811.30	4.12	54	7	61	37.00	1981.50	255.40	2236.90	134.58	0.0360
1700.0	860.90	4.24	33	28	61	38.20	1285.00	1084.20	2369.20	179.08	0.0357
1700.0	860.90	4.24	42	19	61	38.20	1635.40	735.70	2371.10	165.58	0.0349
1700.0	860.90	4.24	48	13	61	38.20	1869.10	503.40	2372.50	152.77	0.0344
1700.0	860.90	4.24	54	7	61	38.20	2102.70	271.10	2373.80	142.81	0.0339
1703.0	862.90	4.24	33	28	61	38.20	1288.00	1086.80	2374.80	179.50	0.0356
1703.0	862.90	4.24	42	19	61	38.20	1639.30	737.50	2376.80	165.97	0.0348
1703.0	862.90	4.24	48	13	61	38.20	1873.50	504.60	2378.10	153.13	0.0343
1703.0	862.90	4.24	54	7	61	38.20	2107.70	271.70	2379.40	143.15	0.0339
1750.0	887.10	4.30	33	28	61	38.70	1324.10	1117.20	2441.30	184.52	0.0347
1750.0	887.10	4.30	42	19	61	38.70	1685.20	758.10	2443.30	170.62	0.0339
1750.0	887.10	4.30	48	13	61	38.70	1925.90	518.70	2444.60	157.42	0.0334
1750.0	887.10	4.30	54	7	61	38.70	2166.70	279.30	2446.00	147.15	0.0329
1798.0	911.20	4.36	33	28	61	39.30	1360.00	1147.50	2507.50	189.53	0.0337
1798.0	911.20	4.36	42	19	61	39.30	1730.90	778.70	2509.60	175.25	0.0330
1798.0	911.20	4.36	48	13	61	39.30	1978.20	532.80	2511.00	161.69	0.0325
1798.0	911.20	4.36	54	7	61	39.30	2225.50	286.90	2512.40	151.15	0.0321
1800.0	920.80	4.38	33	28	61	39.50	1374.40	1159.70	2534.10	191.54	0.0334
1800.0	920.80	4.38	42	19	61	39.50	1749.20	786.90	2536.10	177.10	0.0327
1800.0	920.80	4.38	48	13	61	39.50	1999.10	538.40	2537.50	163.40	0.0322
1800.0	920.80	4.38	54	7	61	39.50	2249.00	289.90	2538.90	152.75	0.0317

Aluminium Conductor Alloy Reinforced (ACAR)

ACAR (ASTM B542)

kcmil	Area (mm ²)	Wire Diameter (mm)	No. of Wires			Overall Diameter (mm)	Weight (kg/km)			Rated Strength (kN)	DC Resistance at 20 °C (Ω/km)
			1350	6201	Total		1350	6201	Total		
1900.0	962.80	4.48	33	28	61	40.35	1437.20	1212.60	2649.80	200.28	0.0319
1900.0	962.80	4.48	42	19	61	40.35	1829.10	822.90	2652.00	185.19	0.0312
1900.0	962.80	4.48	48	13	61	40.35	2090.40	563.00	2653.40	170.87	0.0308
1900.0	962.80	4.48	54	7	61	40.35	2351.70	303.20	2654.90	159.72	0.0303
1933.0	979.70	4.52	33	28	61	40.70	1462.30	1233.90	2696.20	203.79	0.0314
1933.0	979.70	4.52	42	19	61	40.70	1861.10	837.20	2698.30	188.43	0.0307
1933.0	979.70	4.52	48	13	61	40.70	2127.00	572.90	2699.90	173.85	0.0302
1933.0	979.70	4.52	54	7	61	40.70	2392.80	308.50	2701.30	162.51	0.0298
2000.0	1012.60	3.76	54	37	91	41.40	1657.90	1129.60	2787.50	204.32	0.0301
2000.0	1012.60	3.76	63	28	91	41.40	1934.20	854.90	2789.10	190.10	0.0297
2000.0	1012.60	3.76	72	19	91	41.40	2210.50	580.10	2790.60	179.13	0.0292
2000.0	1013.80	4.60	33	28	61	41.40	1528.00	1289.30	2817.30	210.87	0.0306
2000.0	1013.80	4.60	42	19	61	41.40	1944.70	874.90	2819.60	194.98	0.0299
2000.0	1013.80	4.60	48	13	61	41.40	2222.50	598.60	2821.10	179.90	0.0295
2000.0	1013.80	4.60	54	7	61	41.40	2500.40	322.30	2822.70	168.17	0.0291
2250.0	1139.50	3.99	54	37	91	43.92	1884.00	1283.70	3167.70	229.94	0.0270
2250.0	1139.50	3.99	63	28	91	43.92	2198.00	971.50	3169.50	213.94	0.0266
2250.0	1139.50	3.99	72	19	91	43.92	2512.00	659.20	3171.20	201.59	0.0262
2338.0	1184.80	4.97	33	28	61	44.76	1785.80	1506.90	3292.70	246.46	0.0262
2338.0	1184.80	4.97	42	19	61	44.76	2272.90	1022.50	3295.40	227.89	0.0256
2338.0	1184.80	4.97	48	13	61	44.76	2597.60	699.60	3297.20	210.26	0.0253
2338.0	1184.80	4.97	54	7	61	44.76	2922.30	376.70	3299.00	196.55	0.0249
2493.0	1263.20	4.20	54	37	91	46.24	2088.40	1423.00	3511.40	254.88	0.0244
2493.0	1263.20	4.20	63	28	91	46.24	2436.50	1076.90	3513.40	237.14	0.0240
2493.0	1263.20	4.20	72	19	91	46.24	2784.50	730.70	3515.20	223.46	0.0237
2500.0	1266.20	4.21	54	37	91	46.30	2093.40	1426.40	3519.80	255.49	0.0243
2500.0	1266.20	4.21	63	28	91	46.30	2442.30	1079.40	3521.70	237.71	0.0240
2500.0	1266.20	4.21	72	19	91	46.30	2791.20	732.50	3523.70	223.99	0.0236
2750.0	1393.10	4.42	54	37	91	48.56	2303.30	1569.40	3872.70	281.11	0.0221
2750.0	1393.10	4.42	63	28	91	48.56	2687.20	1187.70	3874.90	261.55	0.0218
2750.0	1393.10	4.42	72	19	91	48.56	3071.10	805.90	3877.00	246.45	0.0215
3000.0	1520.90	4.61	54	37	91	50.74	2538.90	1730.00	4268.90	306.89	0.0204
3000.0	1520.90	4.61	63	28	91	50.74	2962.10	1309.20	4271.30	285.53	0.0201
3000.0	1520.90	4.61	72	19	91	50.74	3385.20	888.40	4273.60	269.06	0.0199