	float original	float optimized	double original	double optimized		Iterations	float iterations/ms	optimized	percentage increase	double iterations/ms	optimized	percentage increase
(14, 32)	52.29	51.15	134.13	133.02		448	8.57	8.76	2.22%	3.34	3.37	0.90%
(14, 62)	52.54	51.31	137.7	137.24		896	17.05	17.46	2.40%	6.51	6.53	0.31%
(14, 128)	57.91	56.57	164.45	162.94		1792	30.94	31.68	2.39%	10.9	11	0.92%
(14, 256)	86.36	84.39	297.8	293.49		3584	41.5	42.47	2.34%	12.03	12.21	1.50%
(14, 512)	162.98	159.5	287.35	283.13		7168	43.98	44.94	2.18%	24.95	25.32	1.48%
(14, 1024)	162.03	158.26				14336	88.48	90.59	2.38%			
(28, 32)	52.45	51.28	137.81	137.25		896	17.08	17.47	2.28%	6.5	6.53	0.46%
(28, 62)	54.48	53.18	147.19	146.27		1792	32.89	33.7	2.46%	12.17	12.25	0.66%
(28, 128)	71.64	70.08	237.81	234.05		3584	50.03	51.14	2.22%	15.07	15.31	1.59%
(28, 256)	127.02	124.07	362.93	358.05		7168	56.43	57.77	2.37%	19.75	20.02	1.37%
(28, 512)	163.2	159.68	572.21	563.78		14336	87.84	89.78	2.21%	25.05	25.43	1.52%
(28, 1024)	321.33	313.77				28672	89.23	91.38	2.41%			
(56, 32)	54.46	53.14	147.29	146.23		1792	32.9	33.72	2.49%	12.17	12.25	0.66%
(56, 62)	65.68	63.91	202.49	199.27		3584	54.57	56.08	2.77%	17.7	17.99	1.64%
(56, 128)	112.97	109.8	353.1	348.81		7168	63.45	65.28	2.88%	20.3	20.55	1.23%
(56, 256)	186.31	182.21	646.31	637.08		14336	76.95	78.68	2.25%	22.18	22.5	1.44%
(56, 512)	321.72	314.79	1141.89	1125.05		28672	89.12	91.08	2.20%	25.11	25.49	1.51%
(56, 1024)	639.89	624.81				57344	89.62	91.78	2.41%			
(112, 32)	59.45	57.98	167.45	165.55		3584	60.29	61.81	2.52%	21.4	21.65	1.17%
(112, 62)	92.03	89.32	324.71	320.41		7168	77.89	80.25	3.03%	22.08	22.37	1.31%
(112, 128)	166.68	162.53	630.22	621.2		14336	86.01	88.21	2.56%	22.75	23.08	1.45%
(112, 256)	339.92	317.92	1150.34	1133.1		28672	84.35	90.19	6.92%	24.92	25.3	1.52%
(112, 512)	638.8	625.05	2281.05	2247.29		57344	89.77	91.74	2.19%	25.14	25.52	1.51%
(112, 1024)	1277.05	1246.78				114688	89.81	91.99	2.43%			
(224, 32)	116.44	113.6	331.62	328.12		7168	61.56	63.1	2.50%	21.62	21.85	1.06%
(224, 62)	177.45	172.91	606.75	597.69		14336	80.79	82.91	2.62%	23.63	23.99	1.52%
(224, 128)	326.64	319.1	1229.01	1210.64		28672	87.78	89.85	2.36%	23.33	23.68	1.50%
(224, 256)	663.46	644.75	2345.81	2310.33		57344	86.43	88.94	2.90%	24.45	24.82	1.51%
(224, 512)	1274.34	1245.38	4559.22	4491.74		114688	90	92.09	2.32%	25.16	25.53	1.47%
(224, 1024)	2551.02	2490.92				229376	89.92	92.08	2.40%			
(448, 32)	229.49	224.34	658.45	651.55		14336	62.47	63.9	2.29%	21.77	22	1.06%
(448, 62)	342.48	335.46	1174.97	1157.17		28672	83.72	85.47	2.09%	24.4	24.78	1.56%
(448, 128)	648.92	634.43	2331.71	2295.98		57344	88.37	90.39	2.29%	24.59	24.98	1.59%
(448, 256)	1297.86	1268.91	4549.66	4479.92		114688	88.37	90.38	2.27%	25.21	25.6	1.55%
(448, 512)	2544.83	2489.1	9115.57	8980.48		229376	90.13	92.15	2.24%	25.16	25.54	1.51%
(448, 1024)	5099.11	4978.92				458752	89.97	92.14	2.41%			
SUM	20591.23	20099.3	36427	35896.83								
Improvement		2.39%		1.46%						2.53%		1.28%